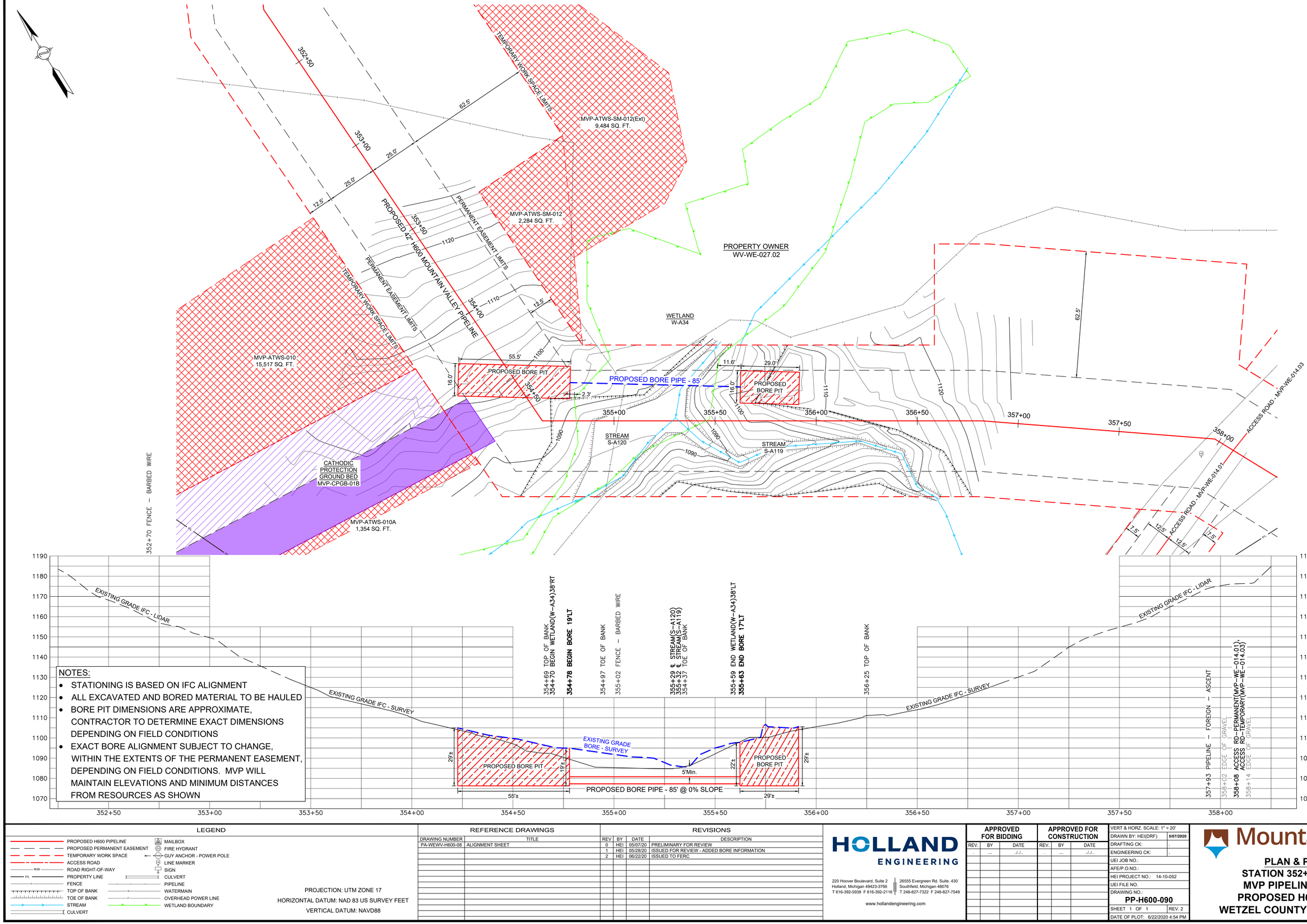
Mountain Valley Pipeline Project

Docket No. CP21- -000

Appendix C

Plan and Profile Drawings of Proposed Trenchless Crossings

C/L MP 6.55



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-WEWV-H600-08	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/07/20	PRELIMINARY FOR REVIEW
1	HEI	05/28/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	06/22/20	ISSUED TO FERC

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

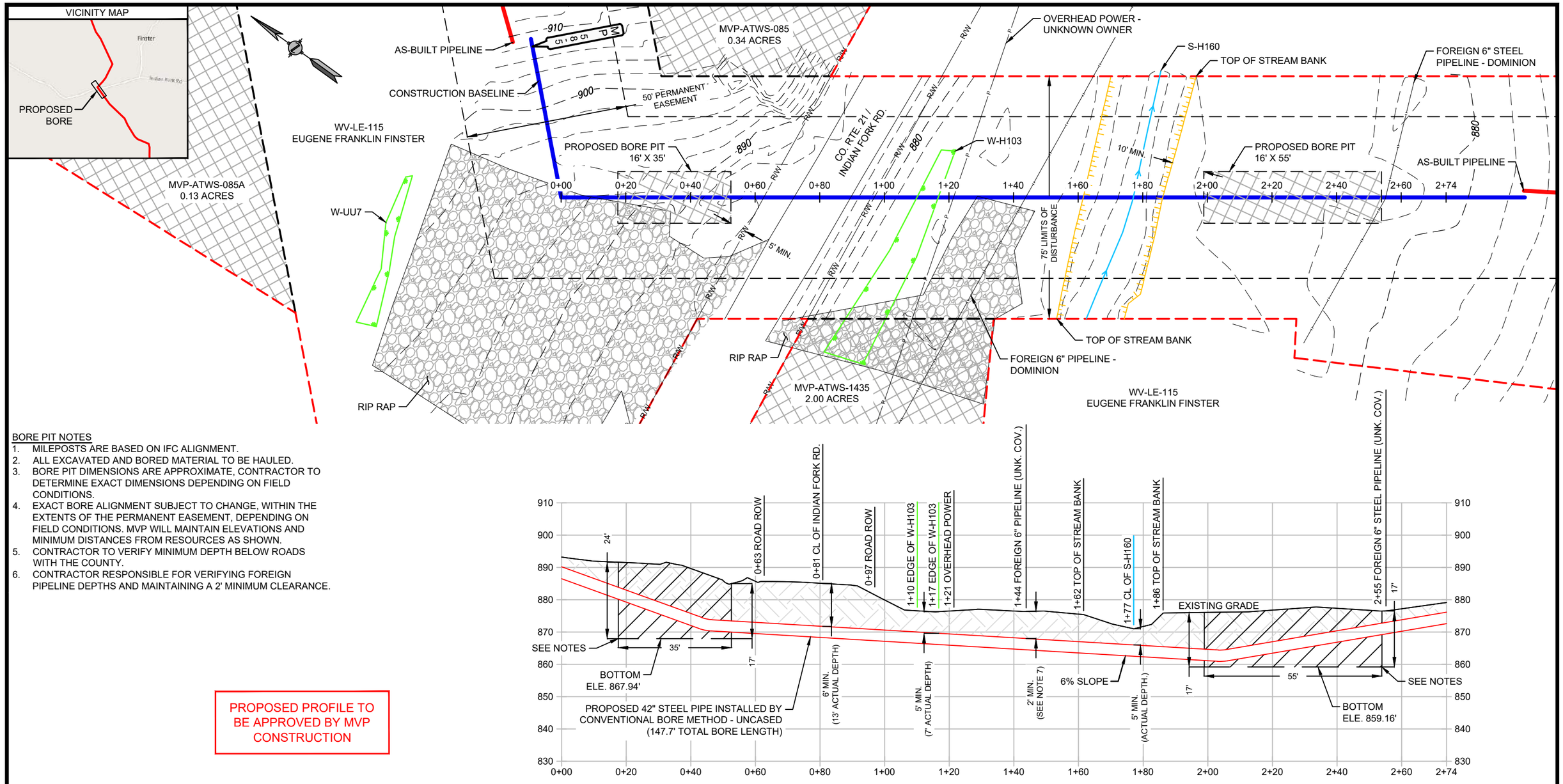
www.hollandengineering.com

APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/07/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-090
SHEET 1 OF 1	REV. 2
DATE OF PLOT:	6/22/2020 4:54 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 352+25 TO 358+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
WETZEL COUNTY, WEST VIRGINIA



BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
3. BORE PIT DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.
5. CONTRACTOR TO VERIFY MINIMUM DEPTH BELOW ROADS WITH THE COUNTY.
6. CONTRACTOR RESPONSIBLE FOR VERIFYING FOREIGN PIPELINE DEPTHS AND MAINTAINING A 2' MINIMUM CLEARANCE.

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 40'

0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/04/20	AMM	REVISED BORE NOTES	JAW
0	05/29/20	AMM	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

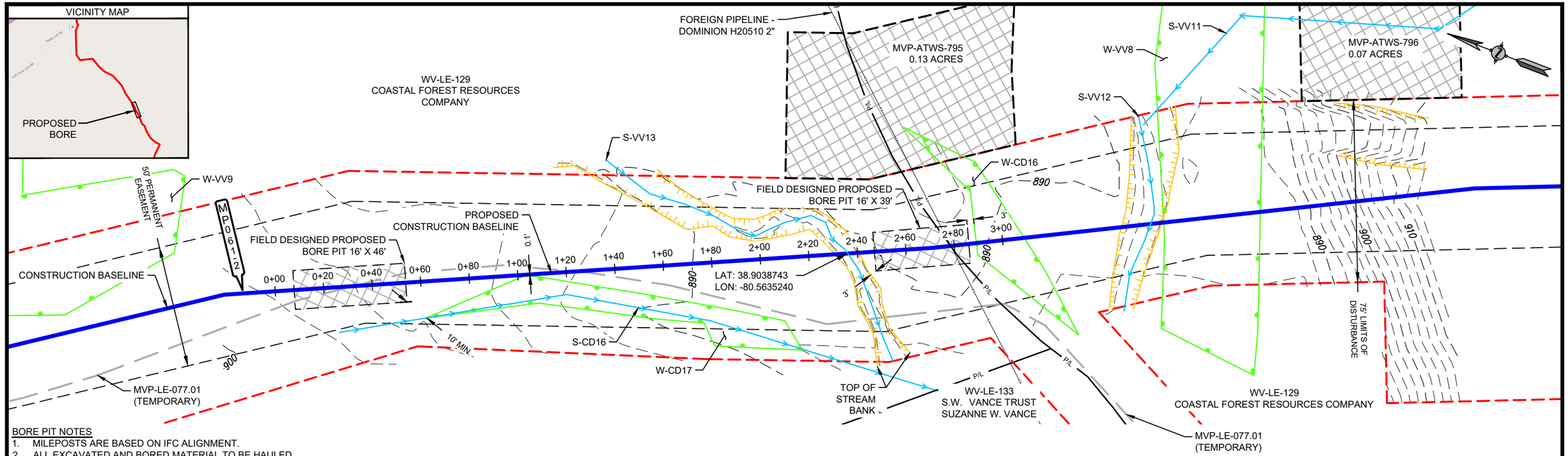
encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING B-012 / WORK PACKAGE B-12
MP 58.5 / S-H160 AND W-H103

LEWIS COUNTY — WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/29/20	DWG. NO. B-BP-WV-LE-115-1	REV. 1
CHECKED BY: JAW	DATE: 05/29/20		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	



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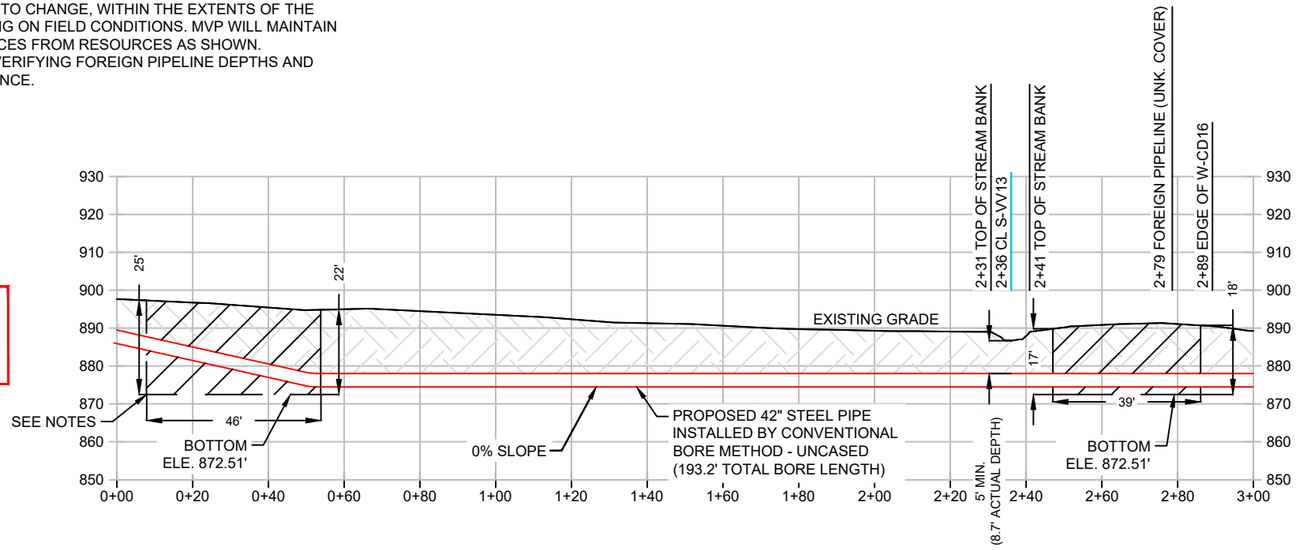

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3	02/16/21	AMM	REMOVED SECOND BORE	JAW
2	06/04/20	AMM	REVISED BORE NOTES	JAW
1	05/29/20	JGG	PER CLIENT COMMENTS	JAW
0	5/27/20	NTA	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

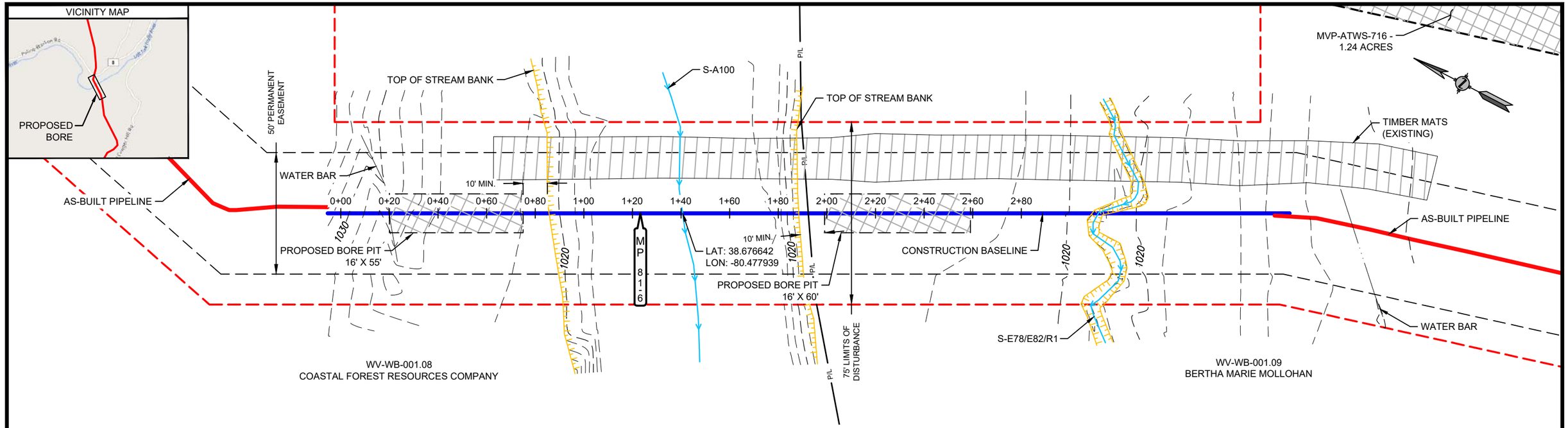
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING B-015 / WORK PACKAGE B-16

MP 61.2 / S-CD16 S-VV13 W-CD16 S-VV11 S-VV11 W-VV8

LEWIS COUNTY WEST VIRGINIA

DRAWN BY: NTA	DATE: 5/27/20	DWG. NO. B-BR-WV-LE-129-OPT	REV. 3
CHECKED BY: JAW	DATE: 5/27/20		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	



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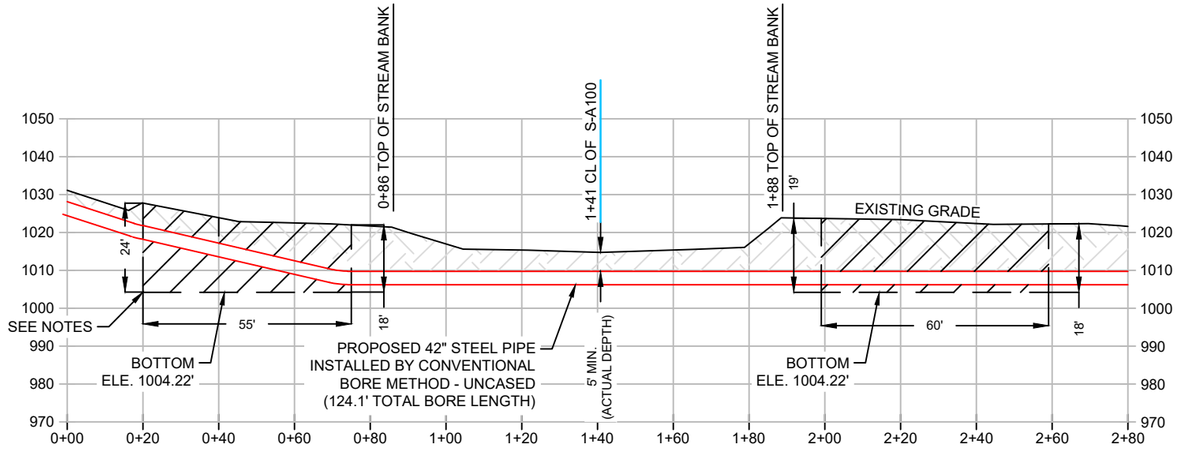

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0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
5	02/16/21	AMM	REMOVED SECOND BORE	JAW
4	06/11/20	TGF	REVISED PROFILE	JAW
3	06/10/20	AMM	REVISED BORE PIT LOCATION	JAW
2	06/10/20	TGF	REVISED PER COMMENTS	JAW

PROJECT NO: 61538

encompass

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

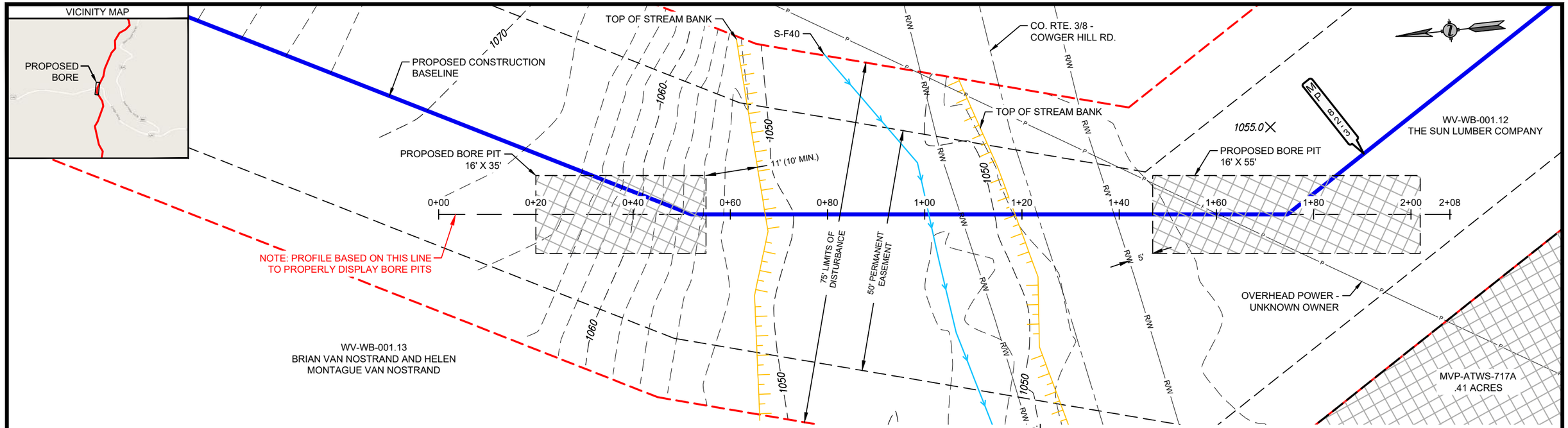
CROSSING C-013 / WORK PACKAGE C-14

MP 81.6 / S-A100 & S-E78/E82/R1

WEBSTER COUNTY WEST VIRGINIA

DRAWN BY: JGG	DATE: 05/21/20	DWG. NO. C-BP-WV-WB-001.08	REV. 5
CHECKED BY: JAW	DATE: 05/20/21		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	

VICINITY MAP



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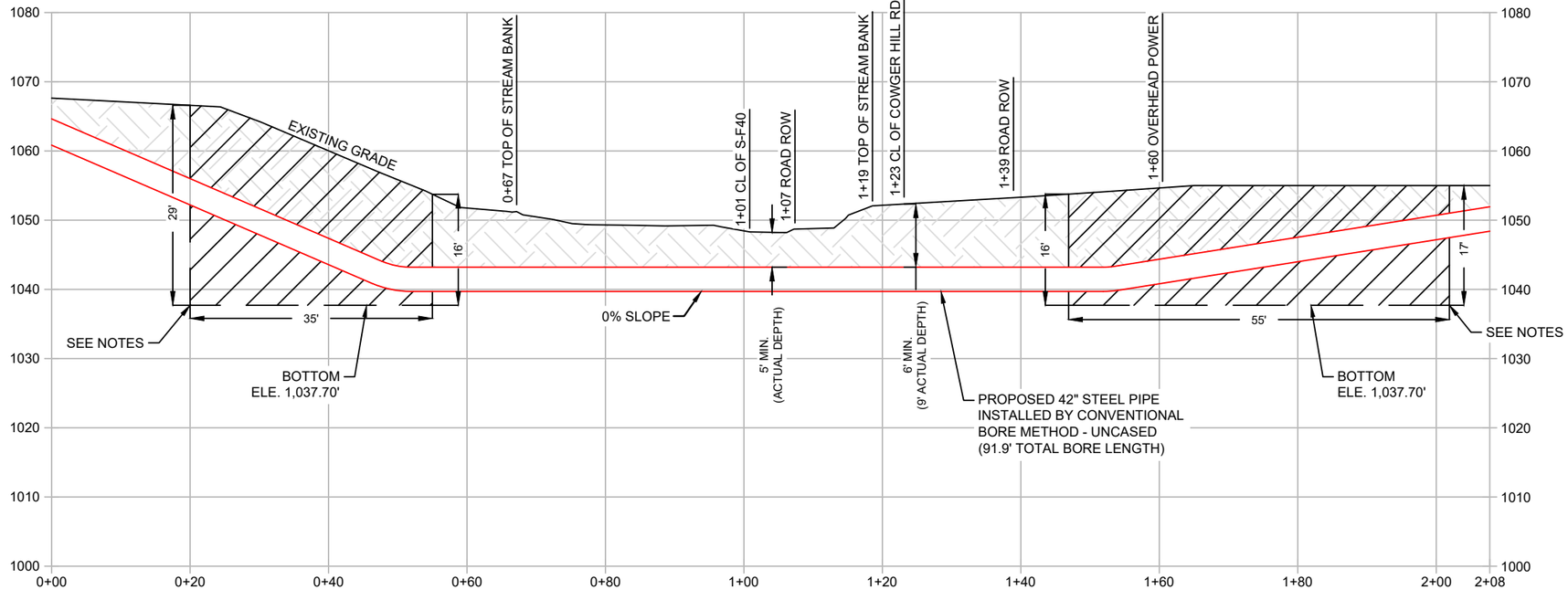

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- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/03/20	TGF	REVISED BORE NOTES	JAW
0	05/20/20	AMM	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING C-018 / WORK PACKAGE C-17

MP 82.3 / S-F40

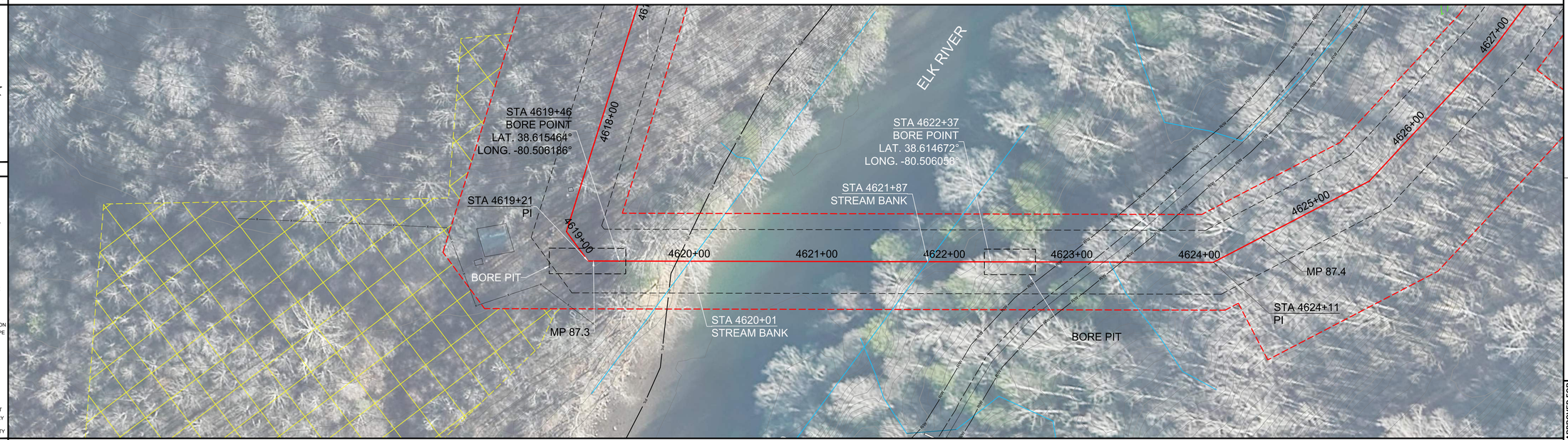
WEBSTER COUNTY — WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/20/20	DWG. NO. C-BP-WV-WB-001.13	REV. 1
CHECKED BY: JAW	DATE: 05/20/20	SHEET NO.	
SCALE: 1"=20'	APP BY: TN		

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
- PIPE / COATING
- SLOPE DISTANCE
- CLASS LOCATION / HCA

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
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED 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

WORK SPACE

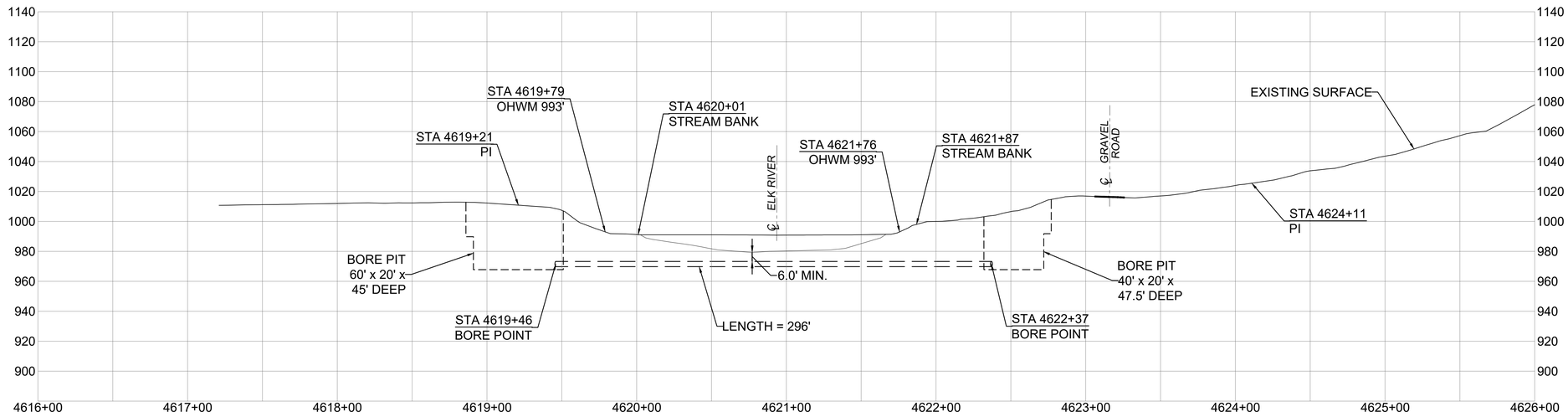
- PROPOSED PIPELINE
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY

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

PROFILE



ELK RIVER - BORE

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	RKK	12/04/18	ISSUED FOR MVP REVIEW

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	2956'	42"O.D. X 0.688"W.T., X70, FUSION BONDED EPOXY

APPROVED FOR CONSTRUCTION

REV.	BY	DATE
-	-	-

APPROVED FOR BIDDING

REV.	BY	DATE
-	-	-

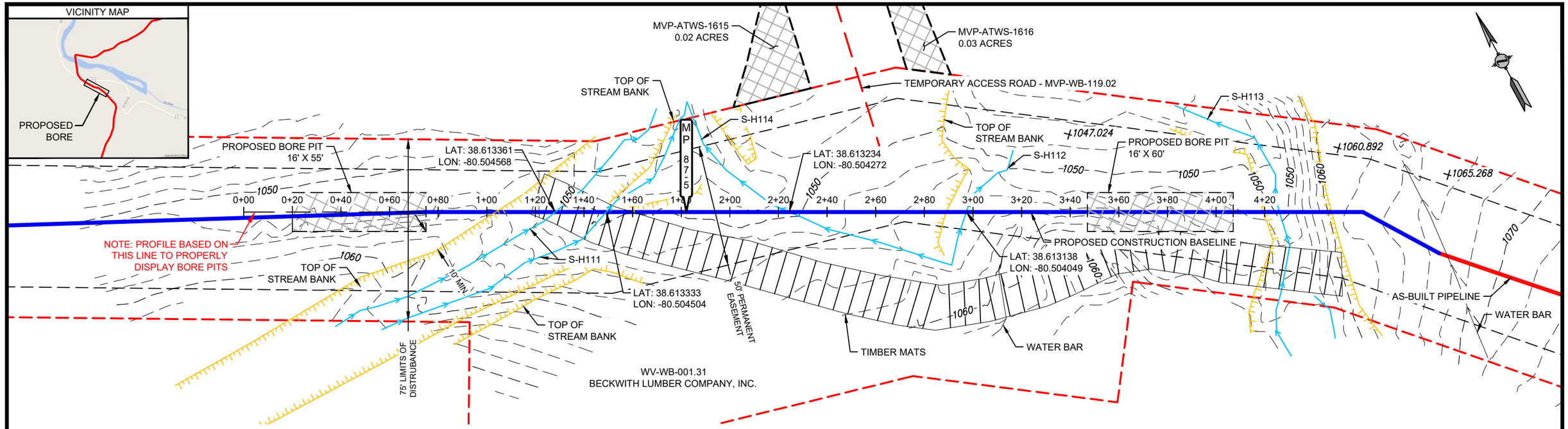
APPROVED FOR FERC

REV.	BY	DATE
0	-	-

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
HOLY DIST., WEBSTER CO., W.V.



BORE PIT NOTES

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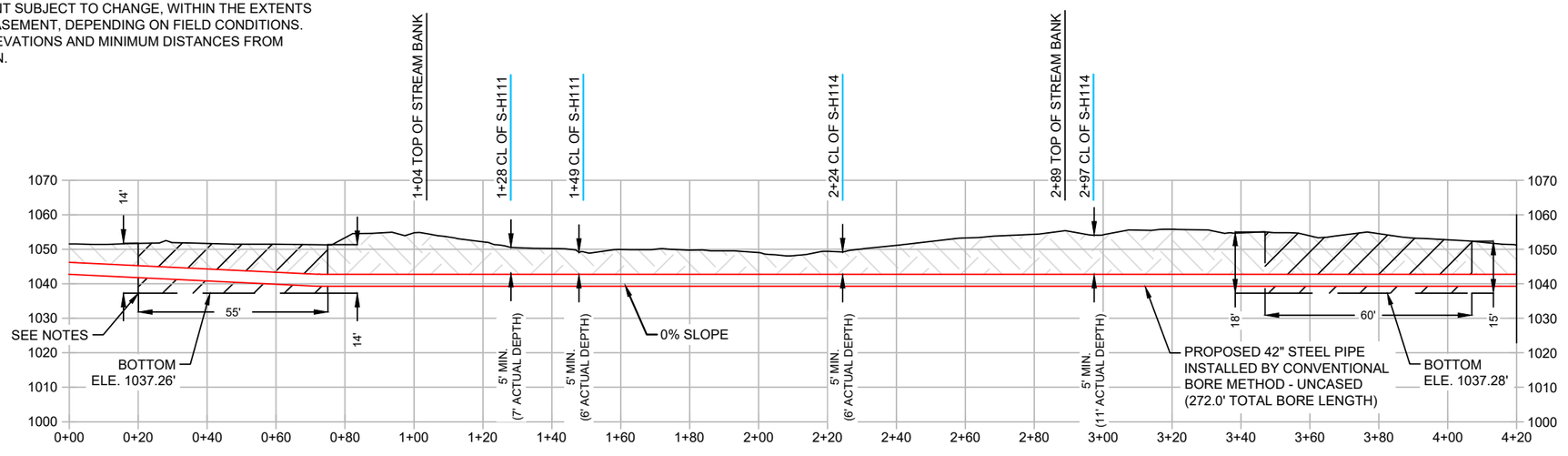

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PROJECT NO: 61538

encompass

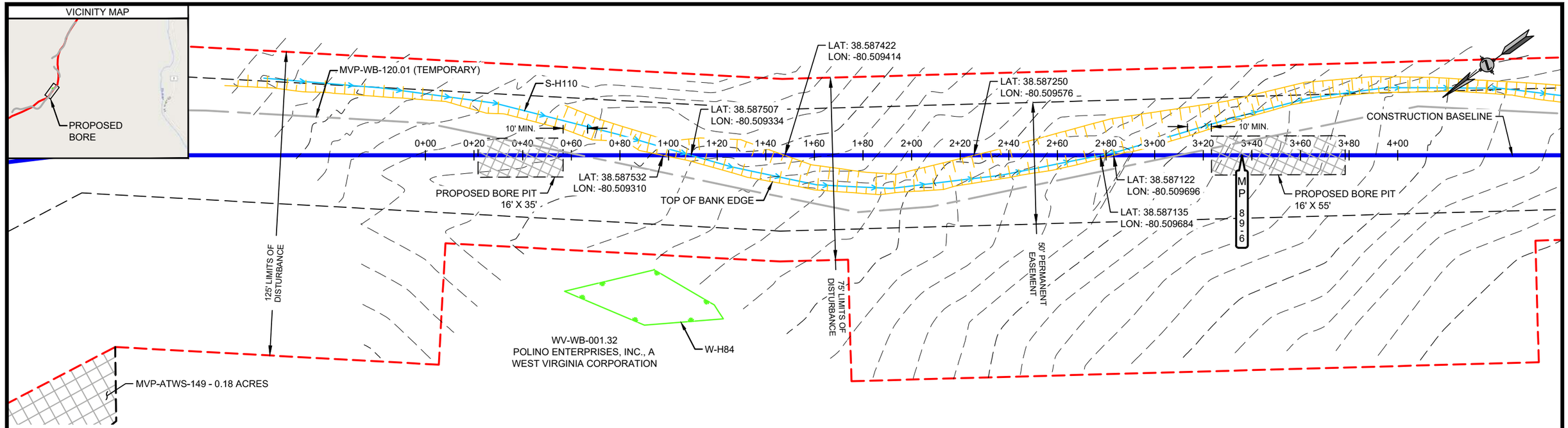
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING C-024 & C-025 / WORK PACKAGE C-20
MP 87.5 / S-H111 & S-H113

BRAXTON COUNTY — WEST VIRGINIA

DRAWN BY: JGG	DATE: 05/13/20	DWG. NO. C-BP-WV-WB-001.31	REV. 4
CHECKED BY: JAW	DATE: 05/13/20	SHEET NO.	
SCALE: 1"=40'	APP BY: TN		



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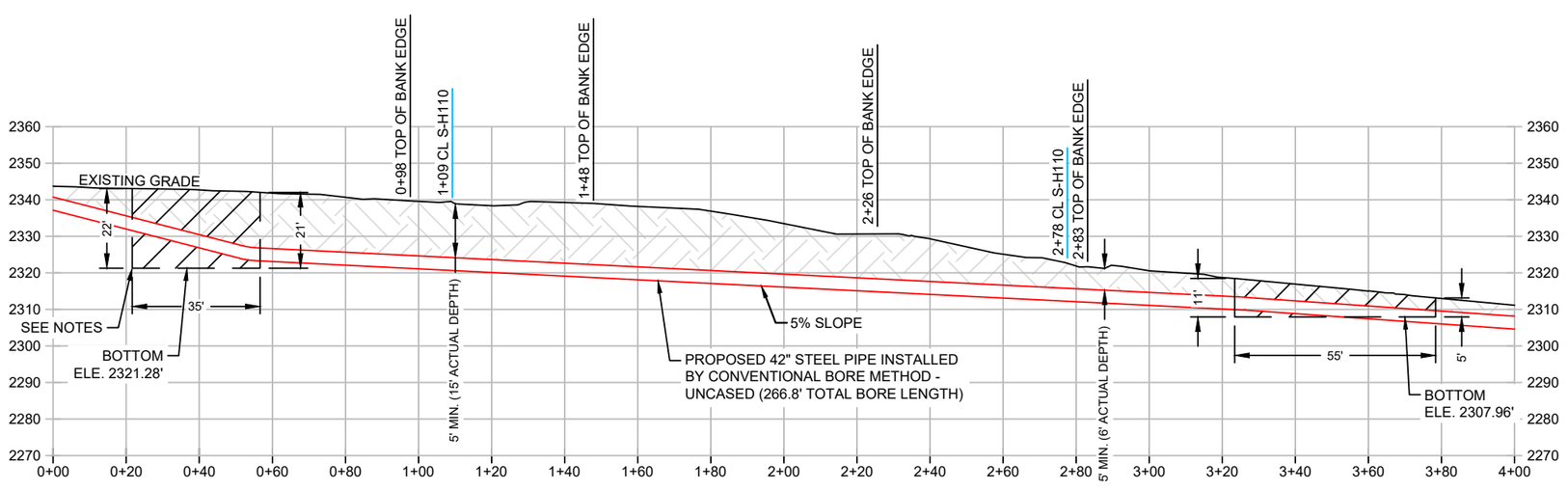

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PROJECT NO: 61538

encompass Providing Solutions

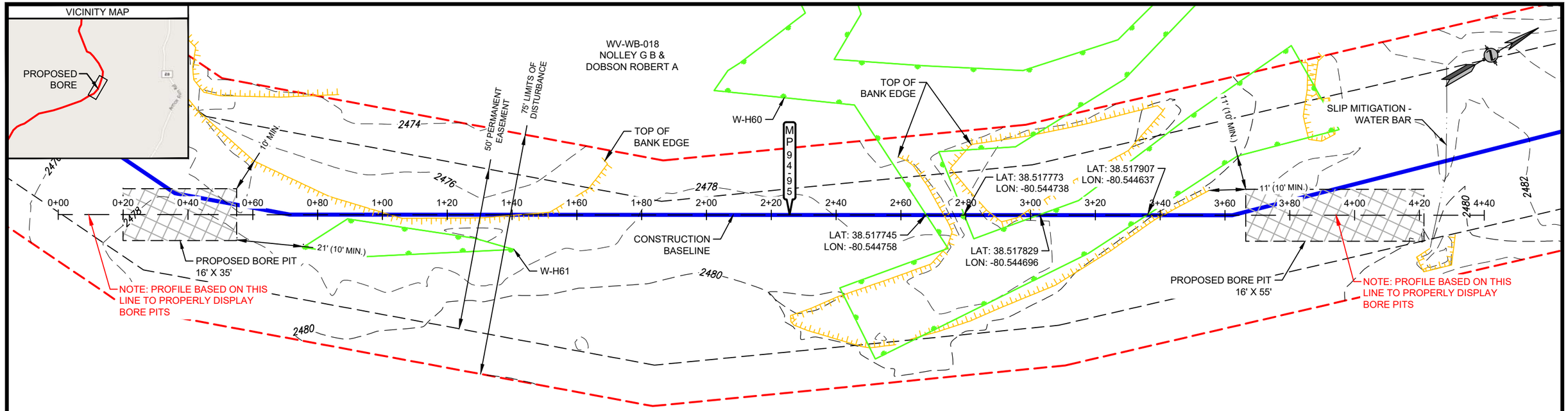
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING C-028 / WORK PACKAGE C-23
MP 89.6 / S-H110

WEBSTER COUNTY — WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/31/20	DWG. NO. C-BP-WV-WB-001.32-3	REV. 2
CHECKED BY: JAW	DATE: 05/31/20		
SCALE: 1" = 40'	APP BY: TN	SHEET NO.	



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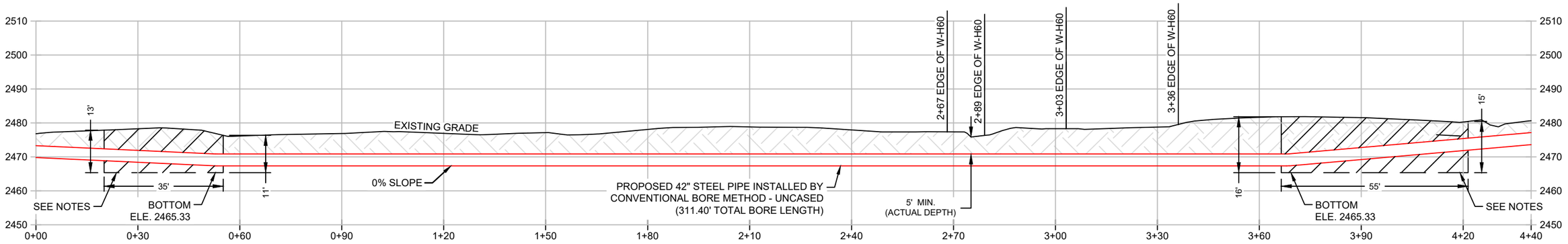

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- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/03/20	TGF	REVISED BORE NOTES	JAW
1	05/26/20	CDA	MOVED BORE PITS	JAW
0	05/18/20	BJO	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

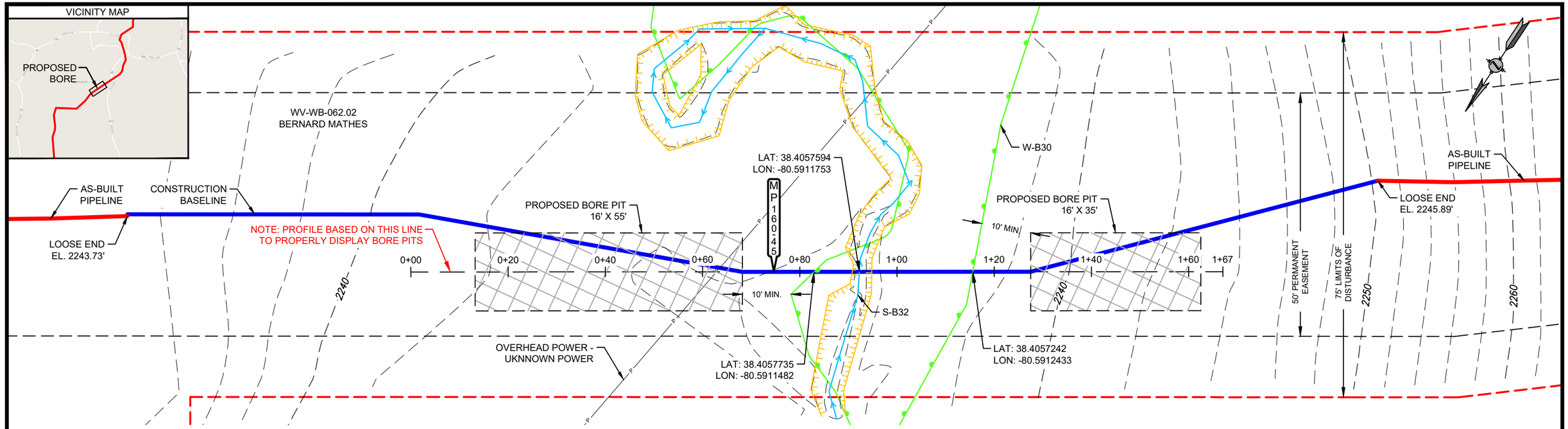
MOUNTAIN VALLEY PIPLINE, LLC

CROSSING C-035 / WORK PACKAGE C-27

MP 94.95 / W-H60 & W-H61

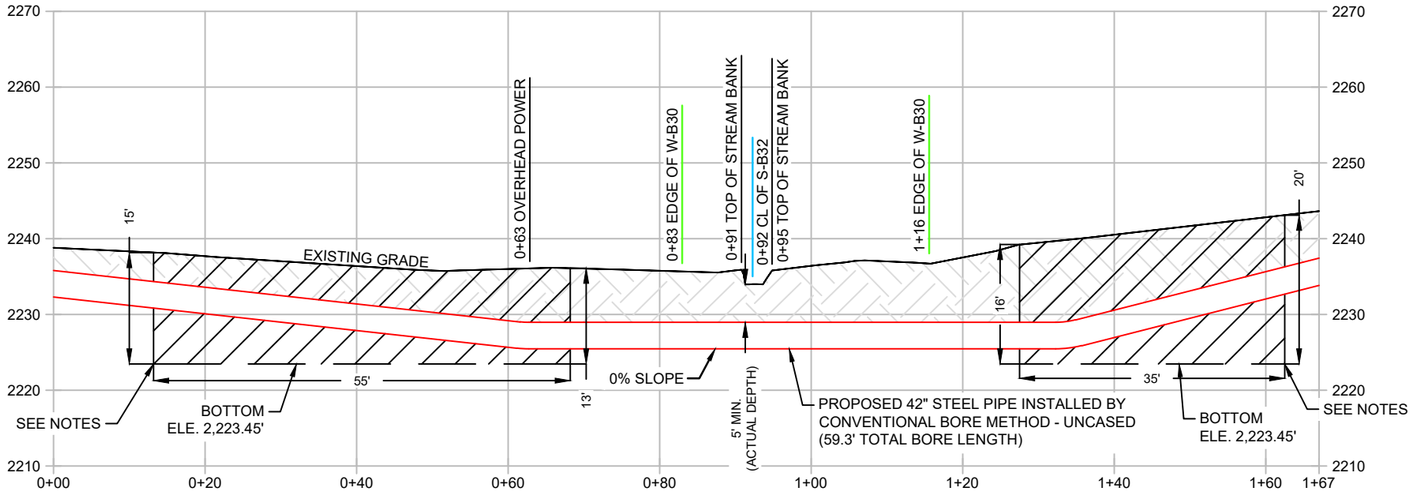
WEBSTER COUNTY — WEST VIRGINIA

DRAWN BY: BJO	DATE: 05/18/20	DWG. NO. C-BP-WV-WB-018	REV. 2
CHECKED BY: JAW	DATE: 05/18/20	SHEET NO.	
SCALE: 1" = 30'	APP BY: TN		



BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.



PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/16/20	TGF	REVISED BORE NOTES	JAW
0	05/22/20	BJO	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

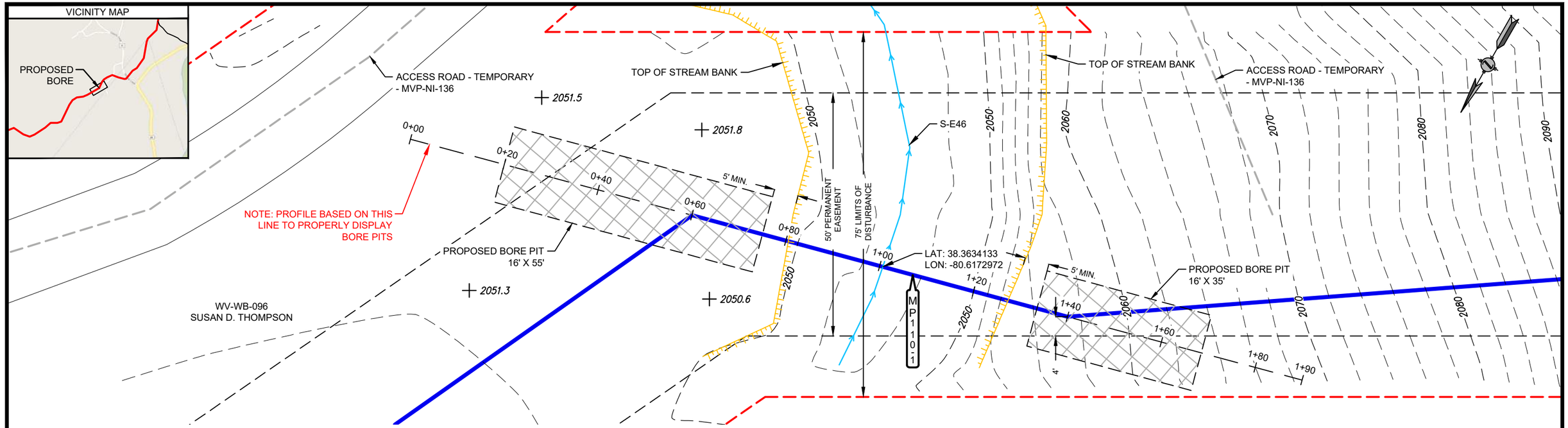
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-004 / WORK PACKAGE D-09

MP 106.35 / S-B32 AND W-B30

WEBSTER COUNTY — WEST VIRGINIA

DRAWN BY: BJO	DATE: 05/22/20	DWG. NO. D-BP-WV-WB-062.02-1	REV. 1
CHECKED BY: JAW	DATE: 05/22/20		
SCALE: 1" = 20'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
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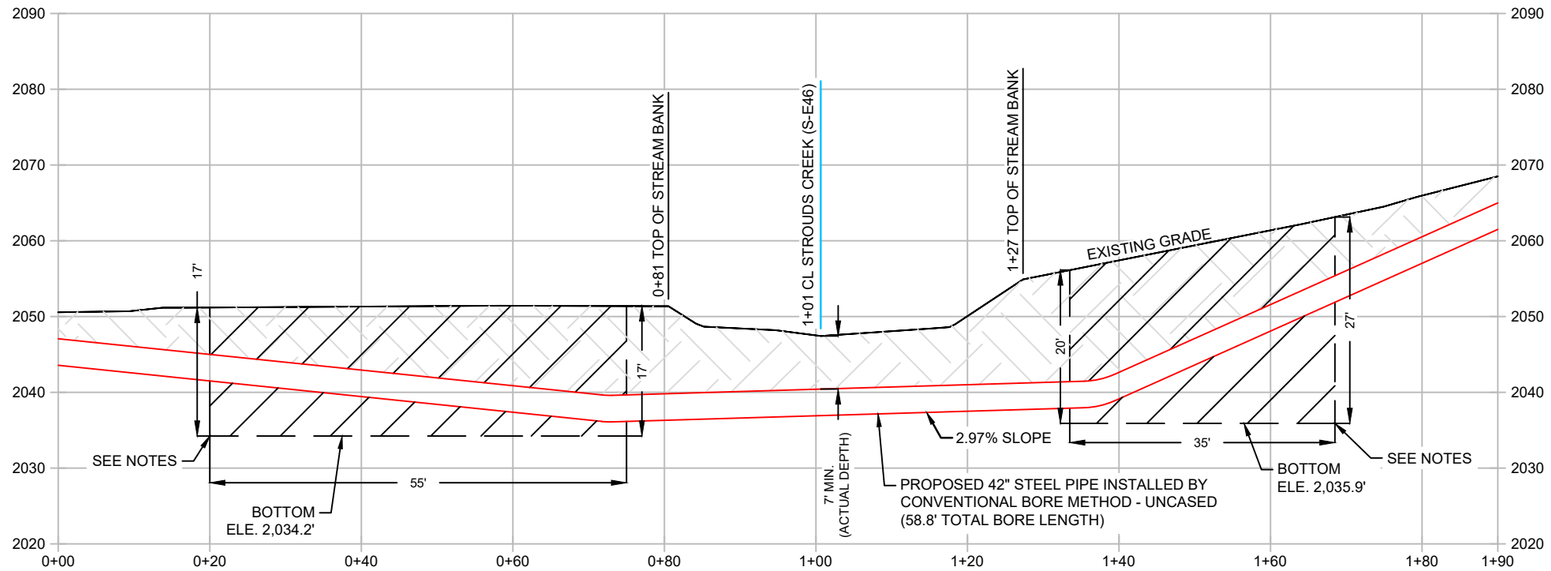
PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION



LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
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- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
4	01/18/21	CDA	REVISED PER ADDITIONAL COMMENTS	JAW
3	06/25/20	AMM	REVISED PER ADDITIONAL COMMENTS	JAW
2	05/30/20	JGG	REVISED PER CLIENT COMMENTS	JAW
1	05/27/20	BJO	REVISED PER COMMENTS	JAW

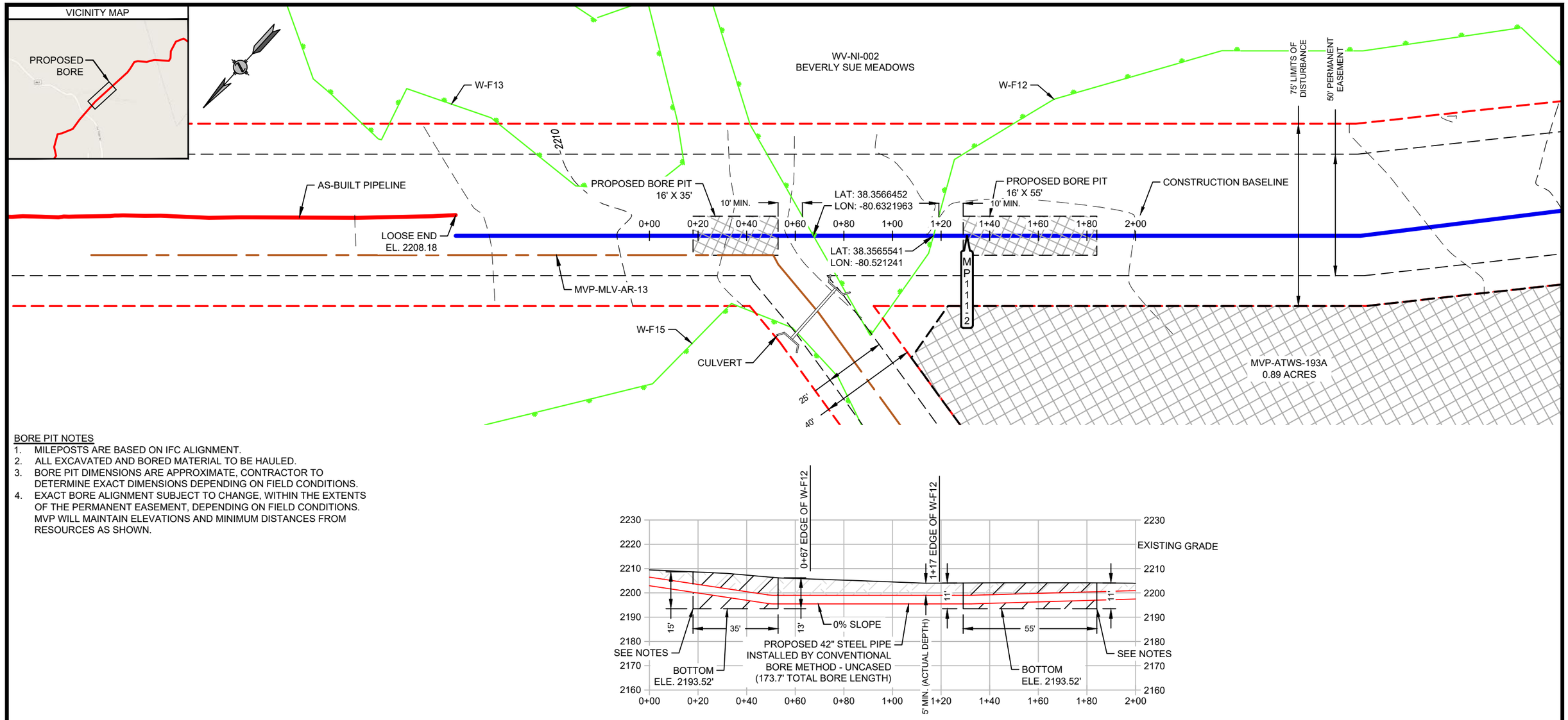
PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-010 / WORK PACKAGE D-14
MP 110.1 / S-E46
WEBSTER COUNTY WEST VIRGINIA

DRAWN BY: BJO	DATE: 05/01/20	DWG. NO. D-BP-WV-WB-096	REV. 4
CHECKED BY: JAW	DATE: 05/04/20		
SCALE: 1"=20'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

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3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
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- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 40'

0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/23/20	TGF	REVISED PER COMMENTS	JAW
0	05/22/20	AMM	ISSUED FOR REVIEW	JAW

PROJECT NO: 61538

encompass

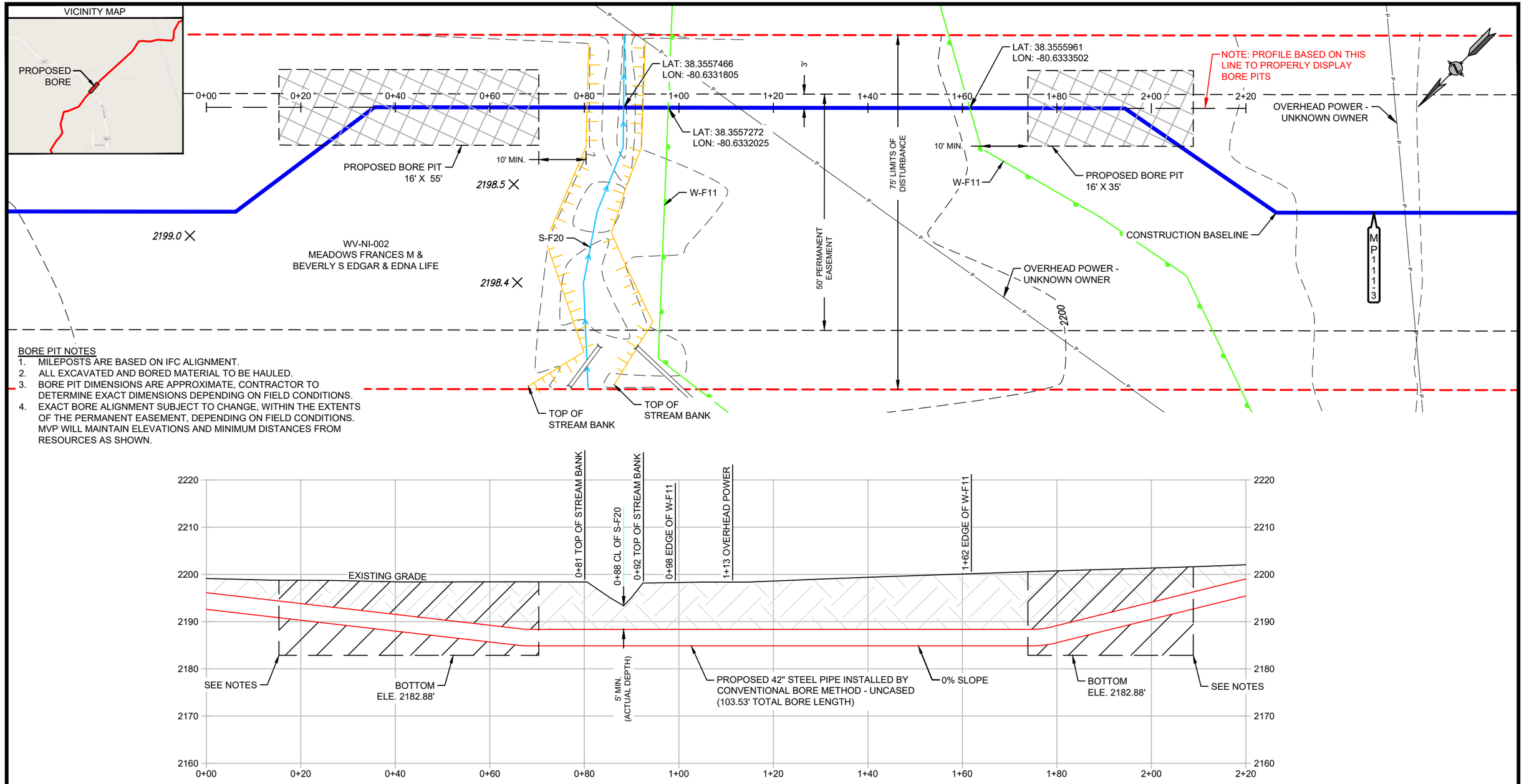
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-011 / WORK PACKAGE D-15
MP 111.2 / W-F12 & W-F13 & W-F15

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/22/20	DWG. NO. D-BP-WV-NI-002-1	REV. 1
CHECKED BY: JAW	DATE: 05/22/20		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	



LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
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- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	05/26/20	AMM	ADDED NEW TOPO DATA AND REVISED PROFILE	JAW
0	05/12/20	BJO	ISSUED FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

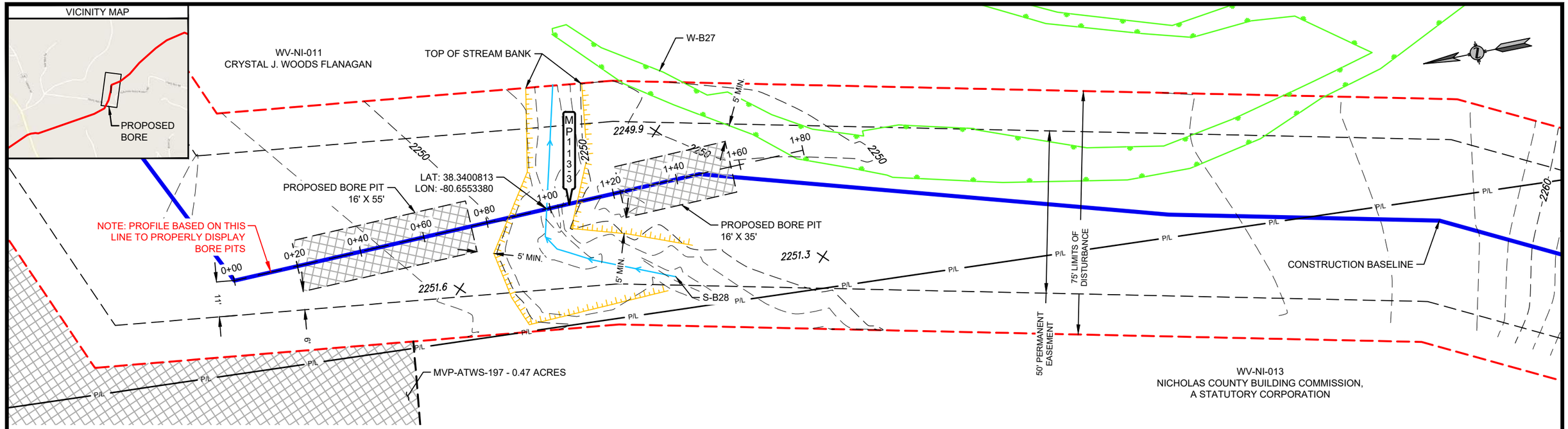
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-012 / WORK PACKAGE D-15

MP 111.3 / S-F20 & W-F11

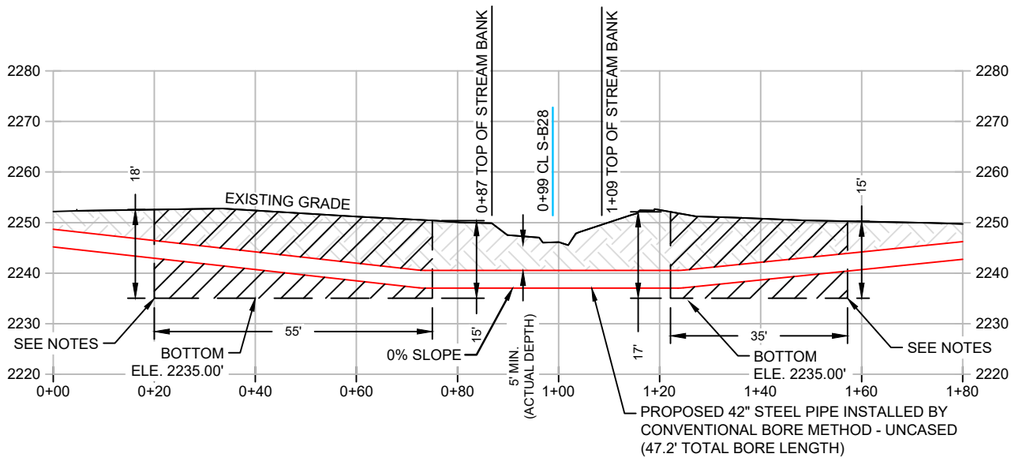
NICHOLAS COUNTY — WEST VIRGINIA

DRAWN BY: BJO	DATE: 05/12/20	DWG. NO. D-BP-WV-NI-002	REV. 1
CHECKED BY: JAW	DATE: 05/12/20	SHEET NO.	
SCALE: 1"=20'	APP BY: TN		



BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.



PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
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- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
3	06/30/20	CDA	REVISED PER COMMENTS	JAW
2	05/26/20	AMM	REVISED EXIT PIT LOCATION	JAW
1	05/20/20	BJO	EXTENDED BORE/REVISED PLAN & PROFILE	JAW
0	05/02/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

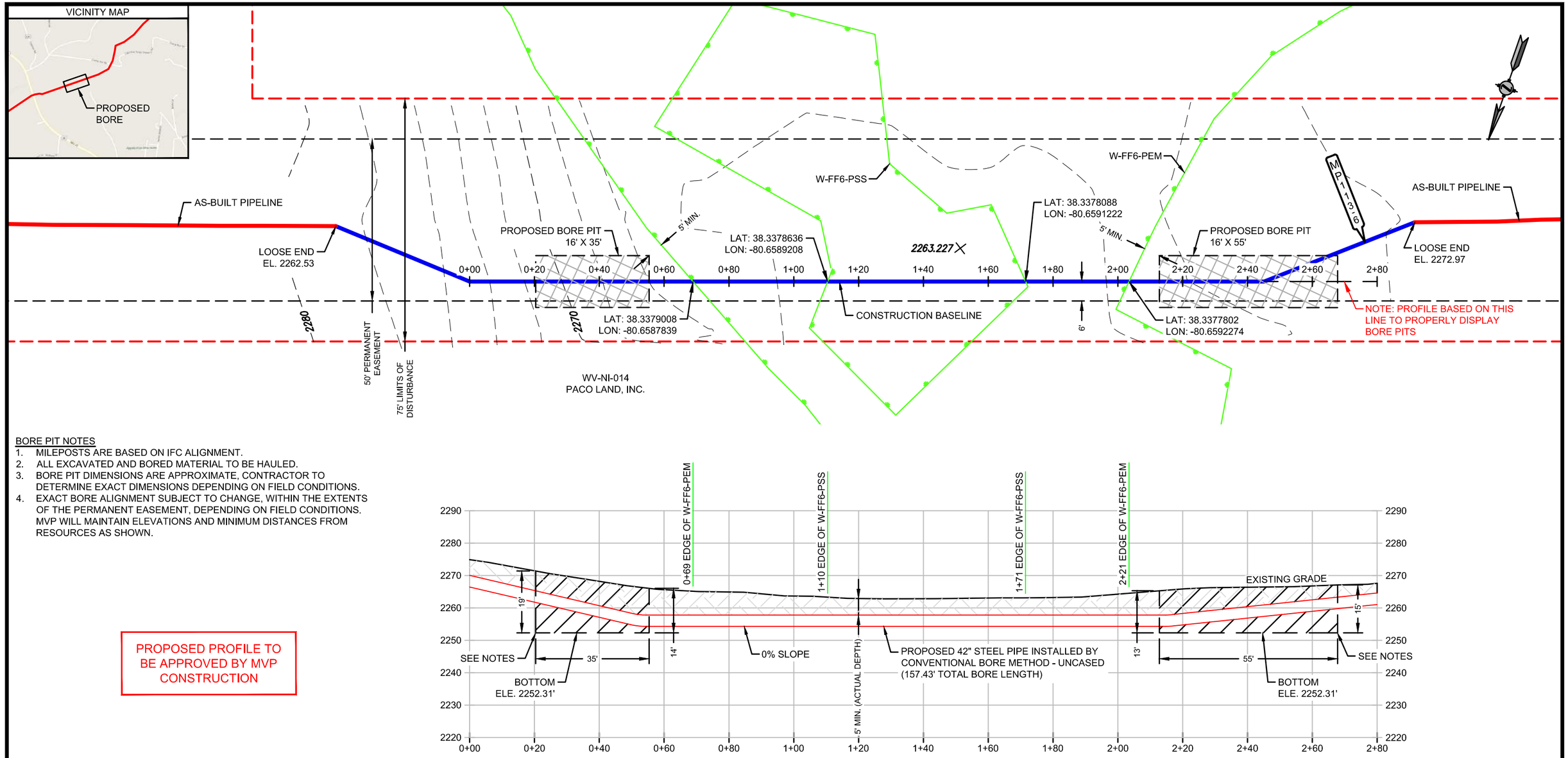
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-019 / WORK PACKAGE D-17

MP 113.3 / S-B28 & W-B27

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/02/20	DWG. NO. D-BP-WV-NI-011	REV. 3
CHECKED BY: JAW	DATE: 05/02/20		
SCALE: 1" = 30'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

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PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- ACTIVE SLIDE AREA
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- GAS VALVE
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SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/25/20	AMM	REVISED PER COMMENTS	JAW
1	05/27/20	BJO	REVISED PER COMMENTS	JAW
0	05/25/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

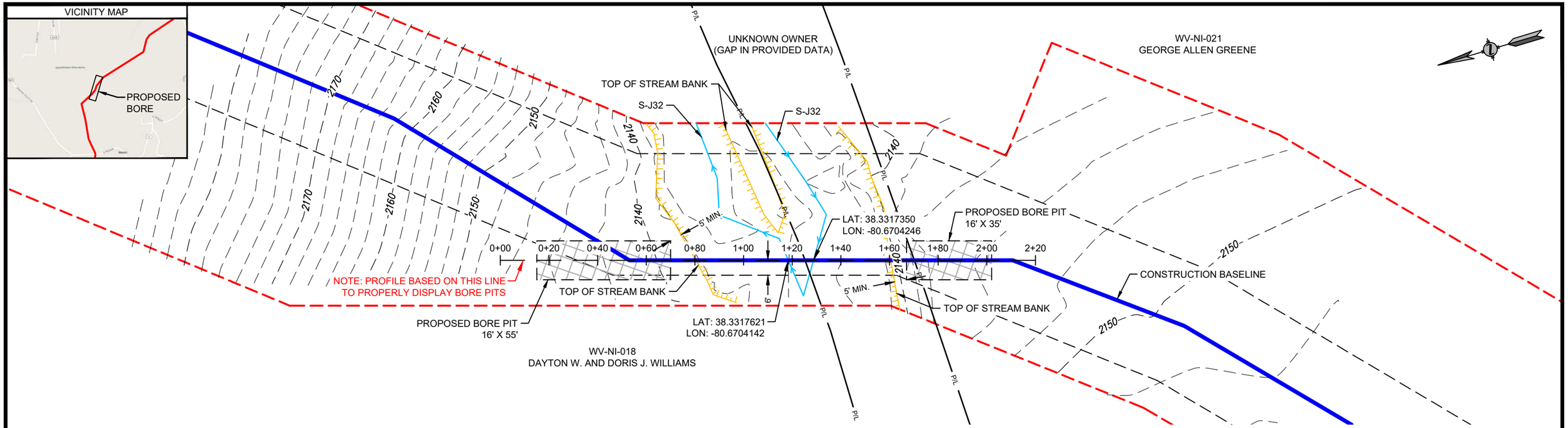
encompass Providing Solutions
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-020 / WORK PACKAGE D-17
MP 113.6 / W-FF6-PEM AND W-FF6-PSS
NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/25/20	DWG. NO. D-BP-WV-NI-014	REV. 2
CHECKED BY: JAW	DATE: 05/25/20		
SCALE: 1" = 30'	APP BY: TN	SHEET NO.	

VICINITY MAP



BORE PIT NOTES

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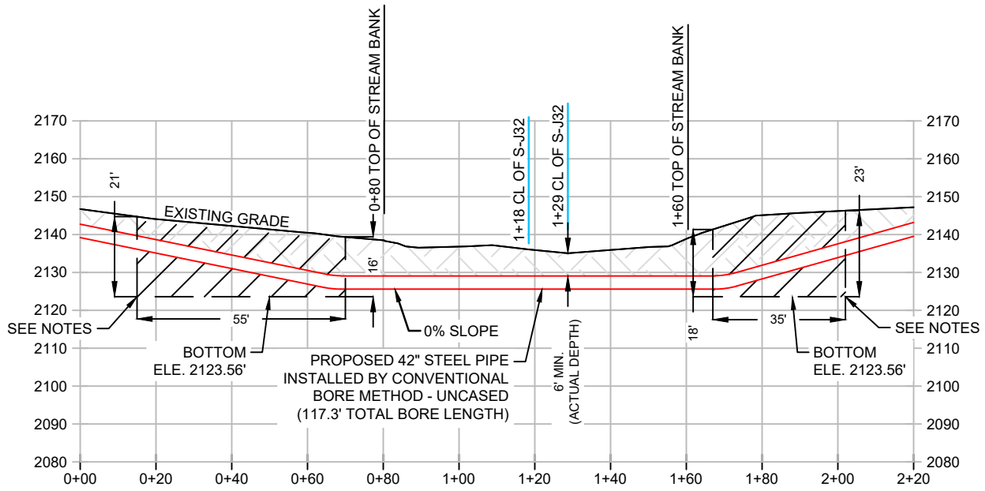

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
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- DRAIN TILE
- FENCE LINE
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- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 40'

0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/25/20	CDA	REVISED PER COMMENTS	JAW
1	05/28/20	JGG	ADDED TOTAL BORE LENGTH	JAW
0	05/12/20	JGG	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

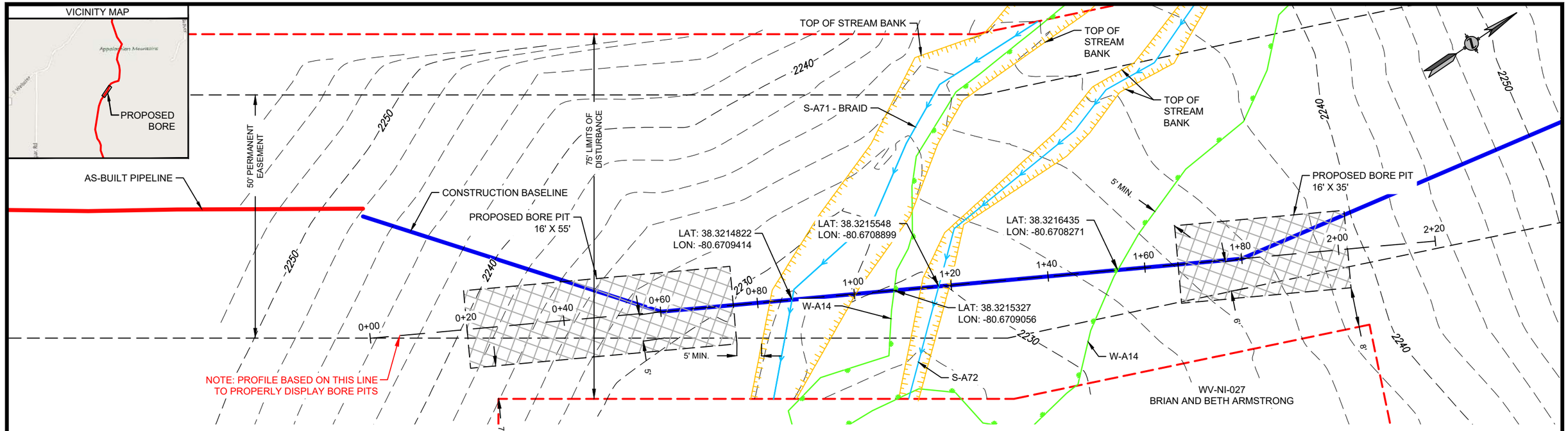
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-022 / WORK PACKAGE D-18

MP 114.4 / S-J32

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: JGG	DATE: 05/12/20	DWG. NO. D-BP-WV-NI-018	REV. 2
CHECKED BY: JAW	DATE: 05/12/20	SHEET NO.	
SCALE: 1"=40'	APP BY: TN		



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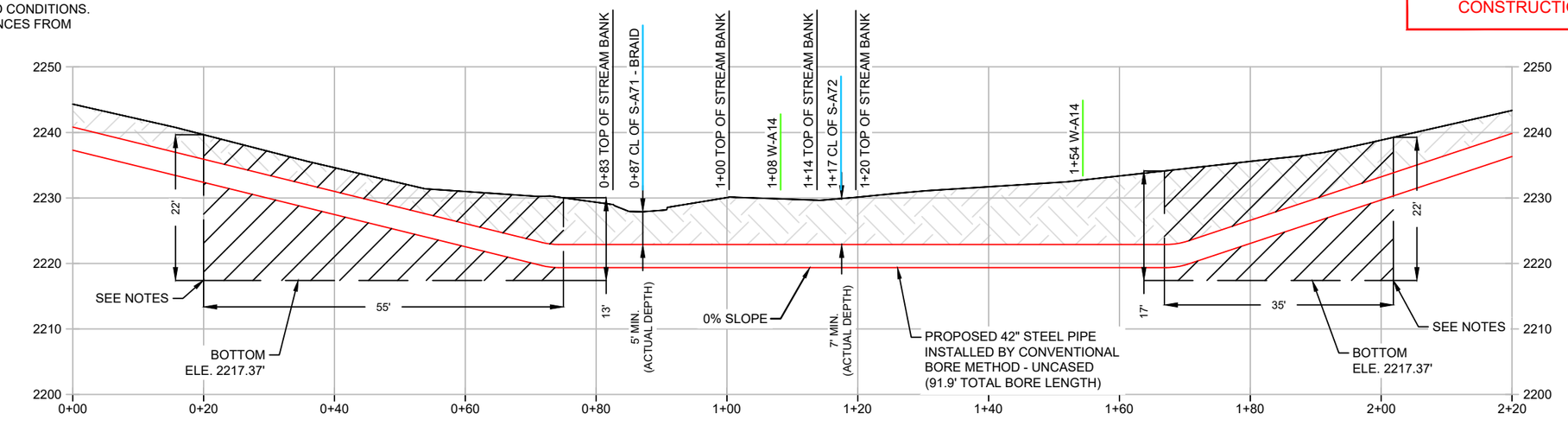

LEGEND

- CONSTRUCTION BASELINE
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- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
3	07/01/20	CDA	REVISED PER COMMENTS	JAW
2	06/25/20	CDA	REVISED PER COMMENTS	JAW
1	05/26/20	CDA	REVISED BORE PITS	JAW
0	05/18/20	JGG	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

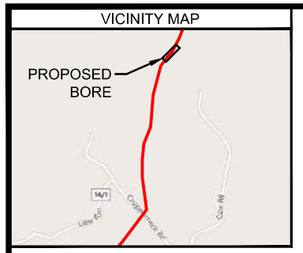
encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-028 / WORK PACKAGE D-19
MP 115.1 / W-A14, S-A72& S-A71 (BRAID)
NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: JGG	DATE: 05/18/20	DWG. NO. BP-D-WV-NI-027	REV. 3
CHECKED BY: JAW	DATE: 05/18/20		
SCALE: 1"=20'	APP BY: TN	SHEET NO.	

VICINITY MAP



WV-NI-036
JERRY ALLEN AND MARY E. HAMMONS

WV-NI-036.01
LARRY T. AND ROBERTA HAMMONS

AS-BUILT PIPELINE

CONSTRUCTION BASELINE

75' LIMITS OF DISTURBANCE

50' PERMANENT EASEMENT

PROPOSED BORE PIT
16' X 55'

PROPOSED BORE PIT
16' X 35'

S-N15

MP 116.7

P/L

5' MIN.

0+00 0+20 0+40 0+60 0+80 1+00 1+20 1+40 1+60

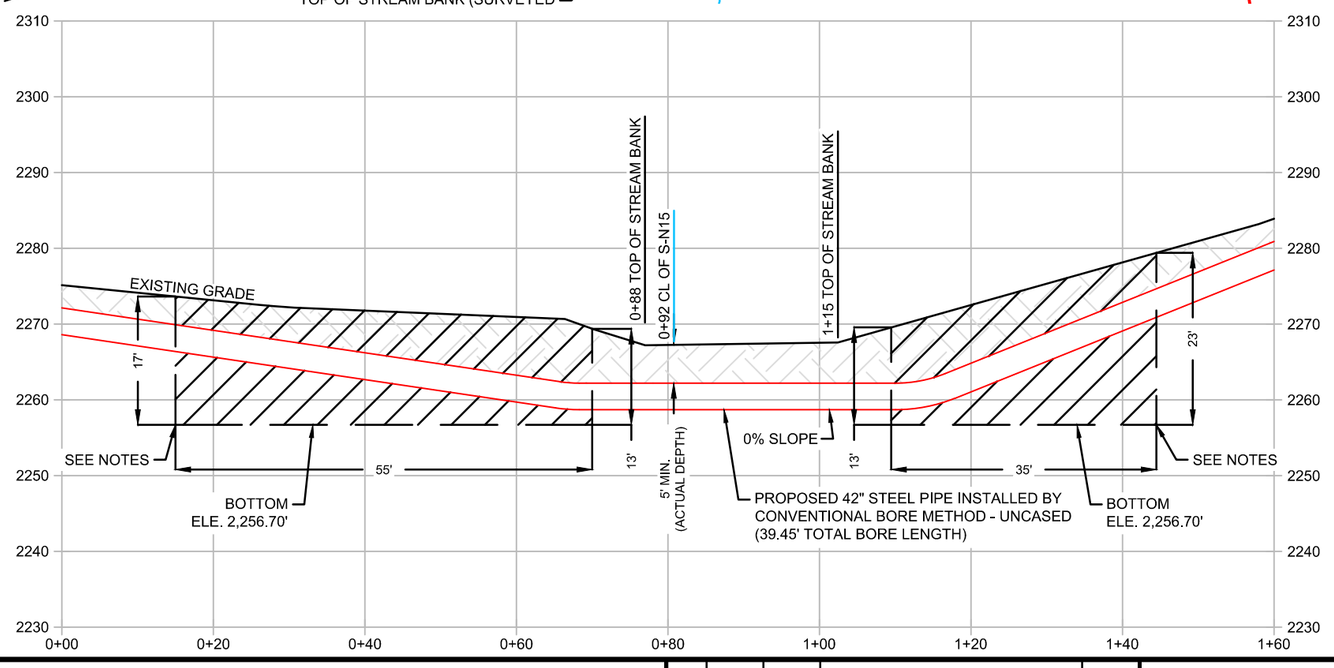
LAT: 38.3016288
LON: -80.6747912

TOP OF STREAM BANK (SURVEYED)

TOP OF STREAM BANK (SURVEYED)

NOTE: PROFILE BASED ON THIS LINE TO PROPERLY DISPLAY BORE PITS

2270 2280 2290 2300



PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
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LEGEND

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- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/25/20	AMM	REVISED PER COMMENTS	JAW
1	06/17/20	TGF	REVISED BORE NOTES	JAW
0	06/01/20	AMM	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

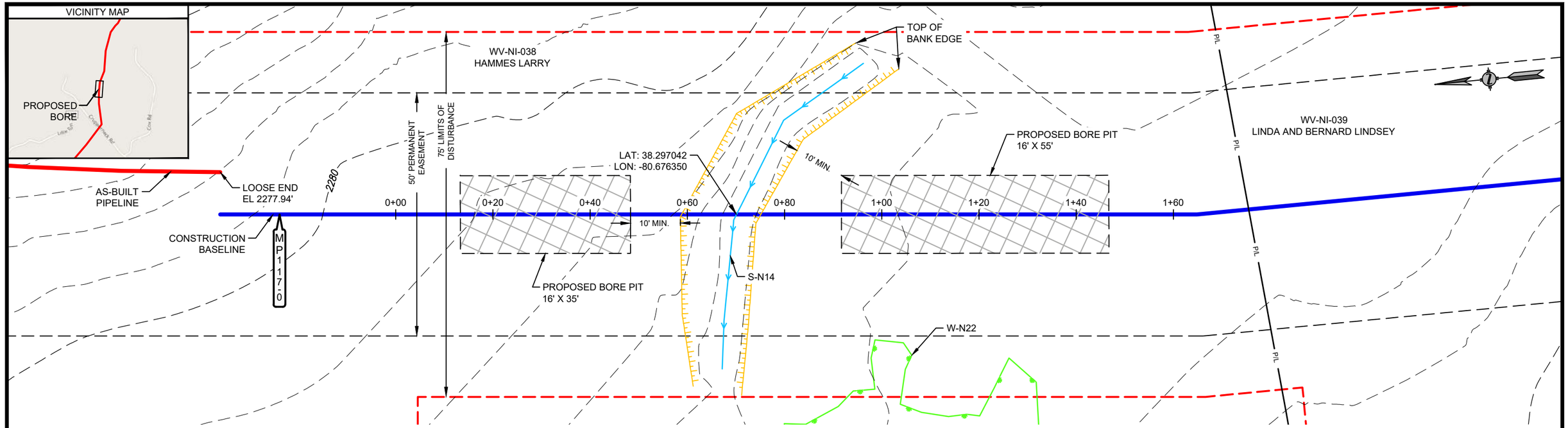
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-034 / WORK PACKAGE D-22
MP 116.7 / S-N15

NICHOLAS COUNTY — WEST VIRGINIA

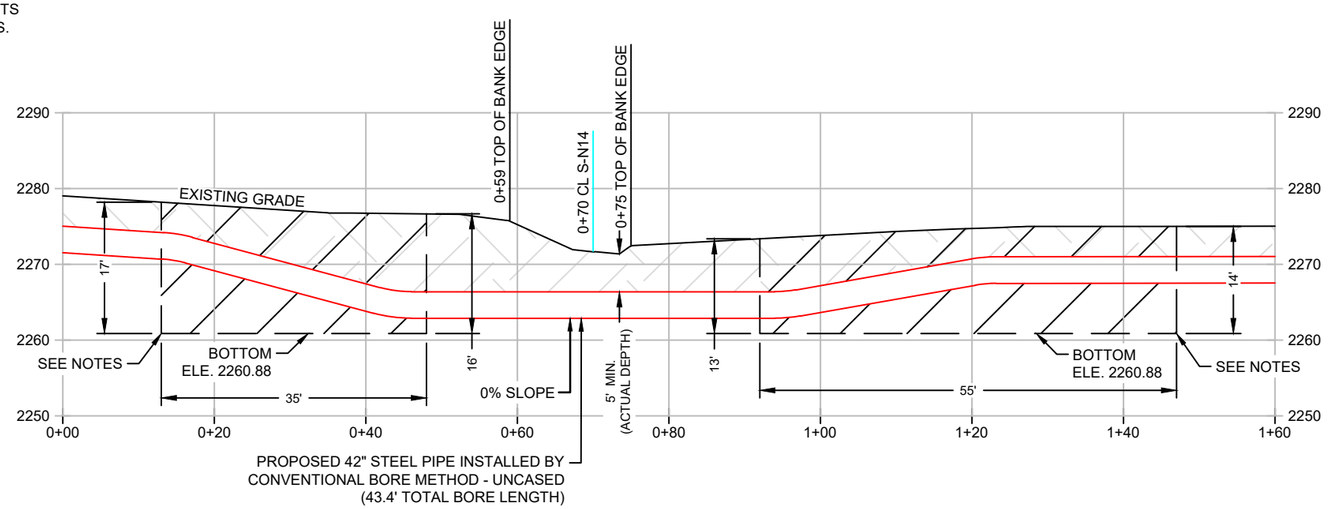
DRAWN BY: AMM	DATE: 06/01/20	DWG. NO. D-BP-WV-NI-036-2	REV. 2
CHECKED BY: JAW	DATE: 06/01/20		
SCALE: 1"=20'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION



LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	05/28/20	JGG	ADD TOTAL BORE LENGTH	JAW
0	05/18/20	BJO	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass

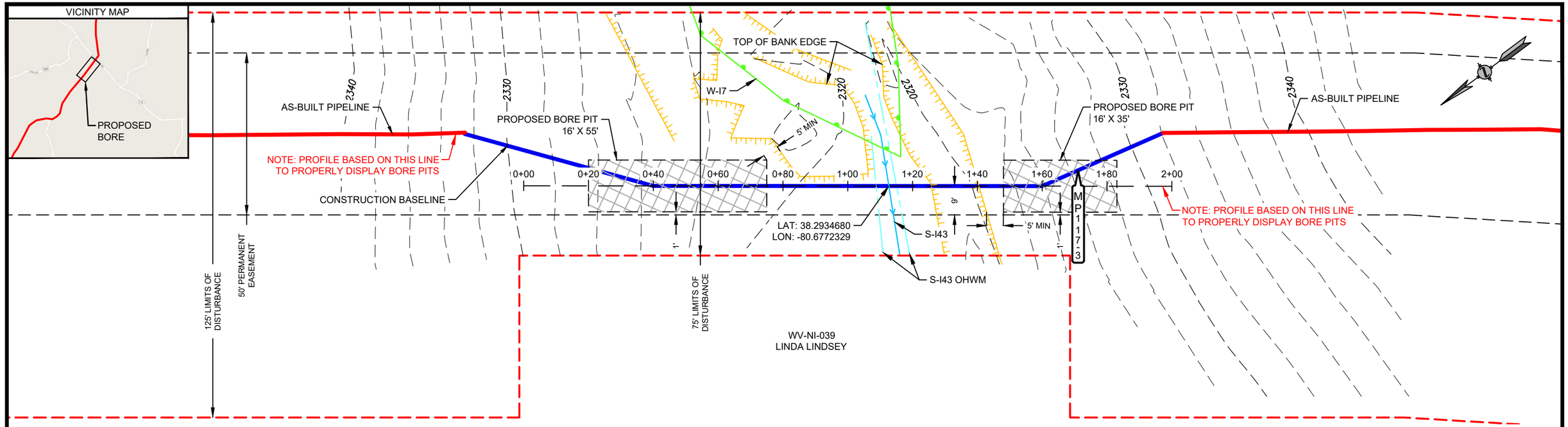
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-035 / WORK PACKAGE D-22
MP 117.00 / S-N14

NICHOLAS COUNTY — WEST VIRGINIA

DRAWN BY: BJO	DATE: 05/18/20	DWG. NO. D-BP-WV-NI-038	REV. 1
CHECKED BY: JAW	DATE: 05/18/20		
SCALE: 1" = 20'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
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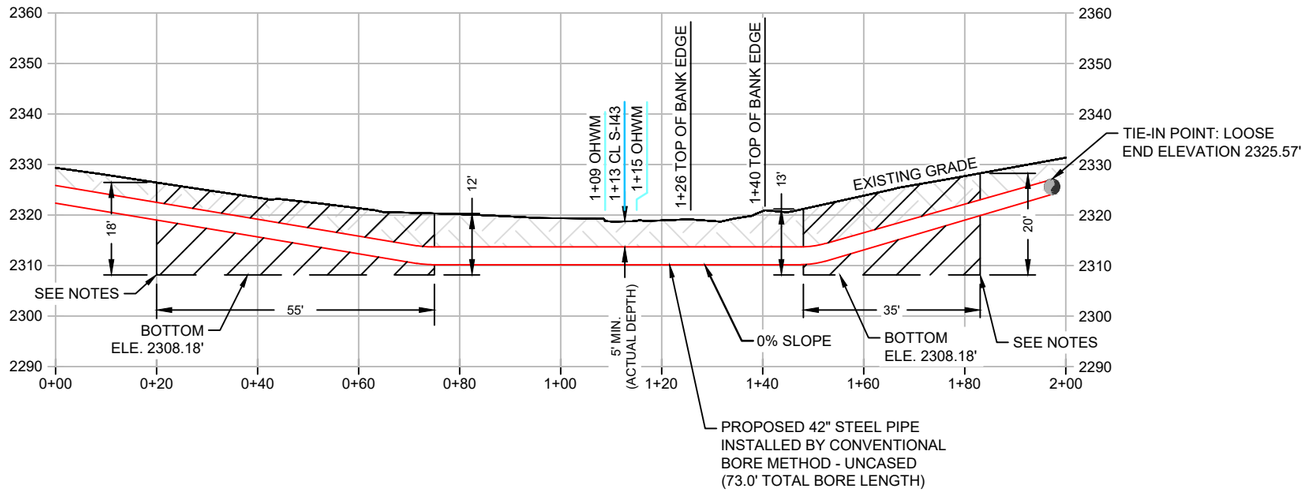

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
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- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/29/20	CDA	REVISED PER COMMENTS	JAW
1	05/28/20	JGG	ADD TOTAL BORE LENGTH	JAW
0	05/06/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

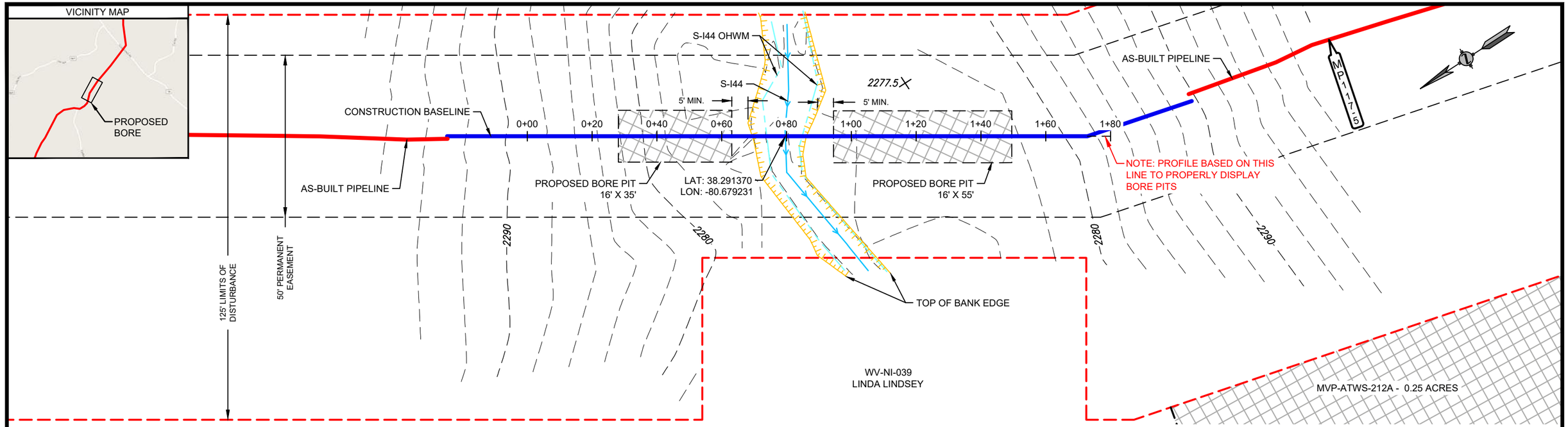
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-036 / WORK PACKAGE D-23

MP 117.3 / S-I43 AND W-I7

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/06/20	DWG. NO. D-BP-WV-NI-039-3	REV. 2
CHECKED BY: JAW	DATE: 05/06/20		
SCALE: 1" = 30'	APP BY: TN	SHEET NO.	



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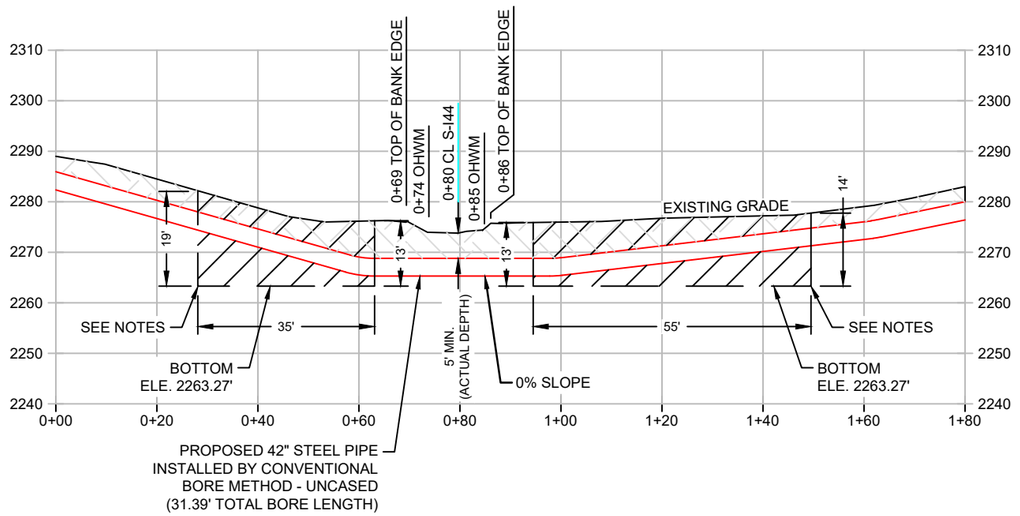

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
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- ACTIVE SLIDE AREA
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- GAS VALVE
- CULVERT

SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
1	05/28/20	JGG	ADD TOTAL BORE LENGTH	JAW
0	05/04/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

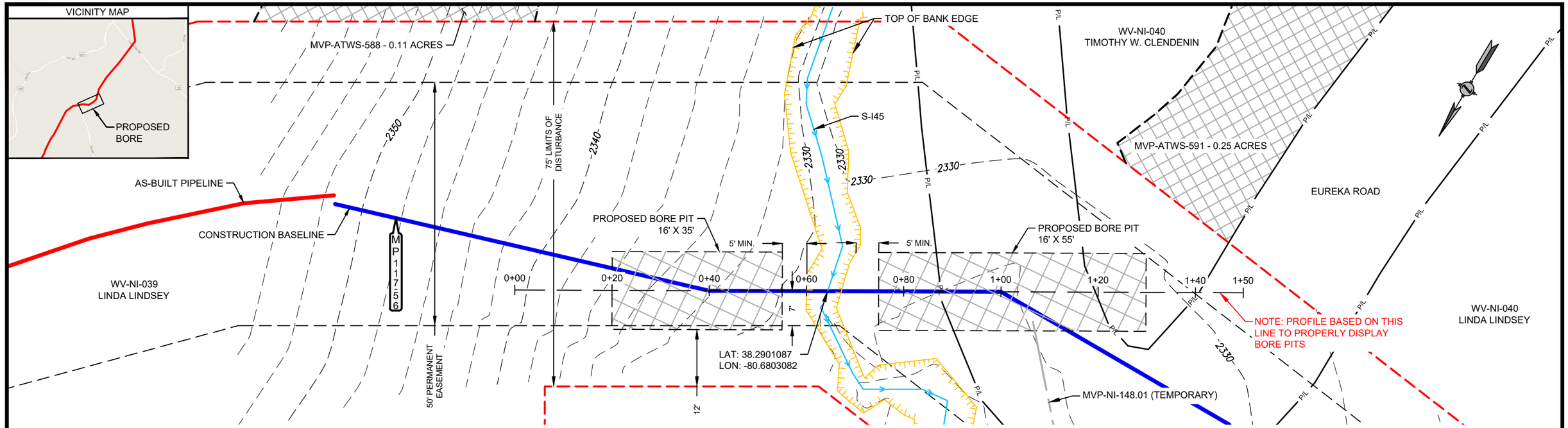
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-037 / WORK PACKAGE D-23

MP 117.5 / S-I44

NICHOLAS COUNTY — WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/04/20	DWG. NO. D-BP-WV-NI-039	REV. 1
CHECKED BY: JAW	DATE: 05/04/20		
SCALE: 1" = 30'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

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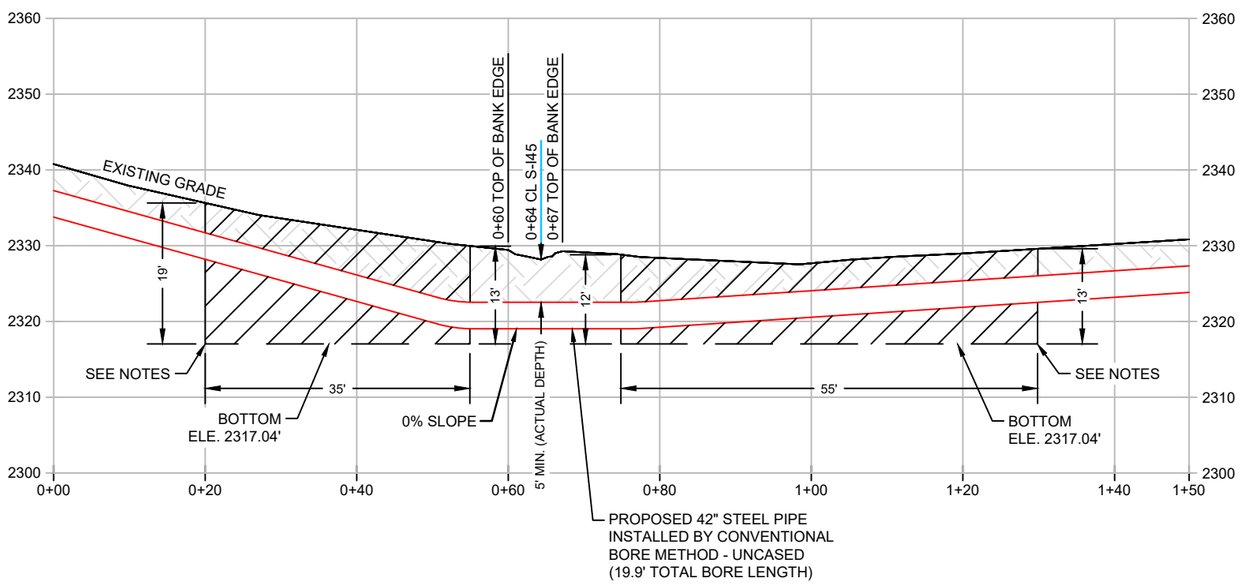

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
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SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/29/20	CDA	REVISED PER COMMENTS	JAW
1	05/28/20	JGG	ADD TOTAL BORE LENGTH	JAW
0	05/05/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

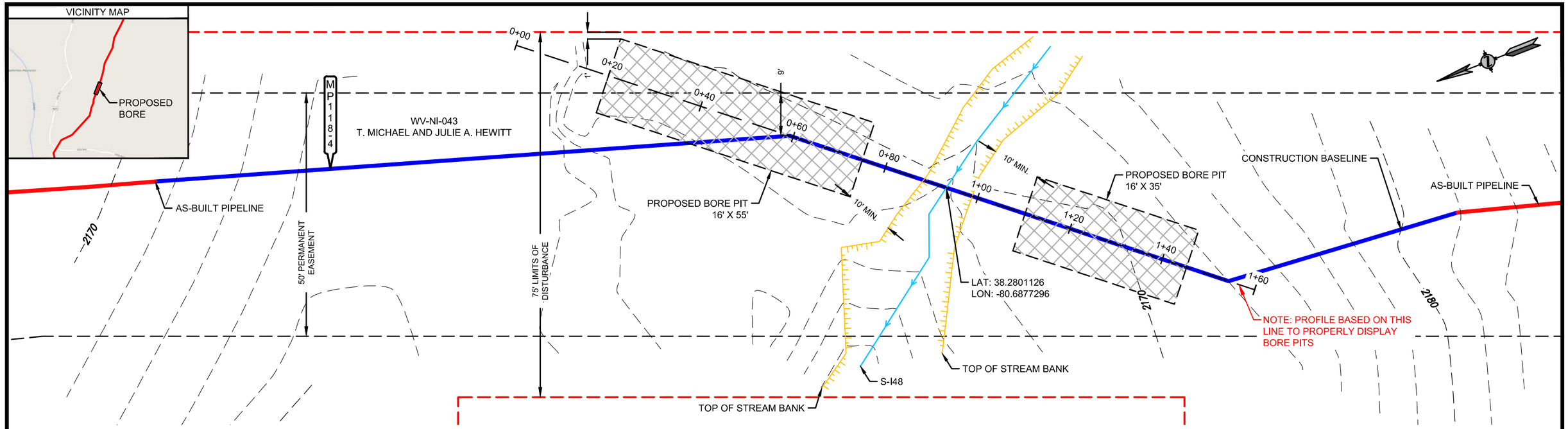
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING D-038 / WORK PACKAGE D-23

MP 117.5 / S-I45

NICHOLAS COUNTY — WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/05/20	DWG. NO. D-BP-WV-NI-039-2	REV. 2
CHECKED BY: JAW	DATE: 05/05/20		
SCALE: 1" = 20'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

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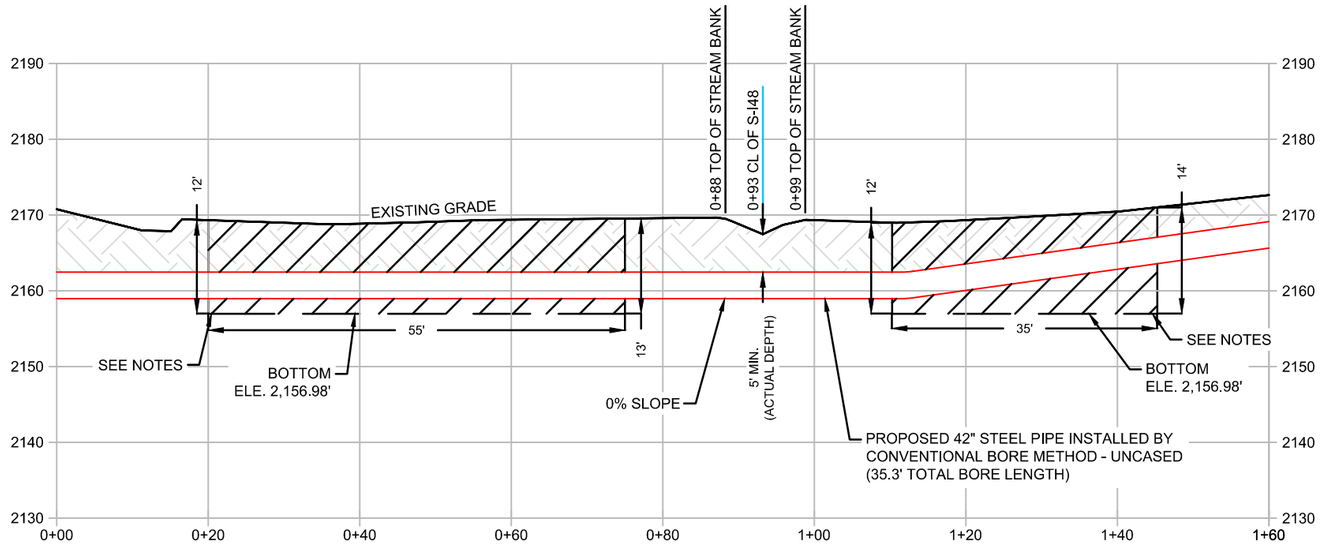

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- ACTIVE SLIDE AREA
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- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/25/20	CDA	REVISED PER COMMENTS	JAW
1	06/18/20	CDA	REVISED PER COMMENTS	JAW
0	05/27/20	AMM	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

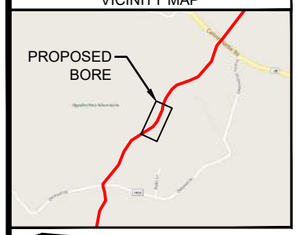
CROSSING D-040 / WORK PACKAGE D-24

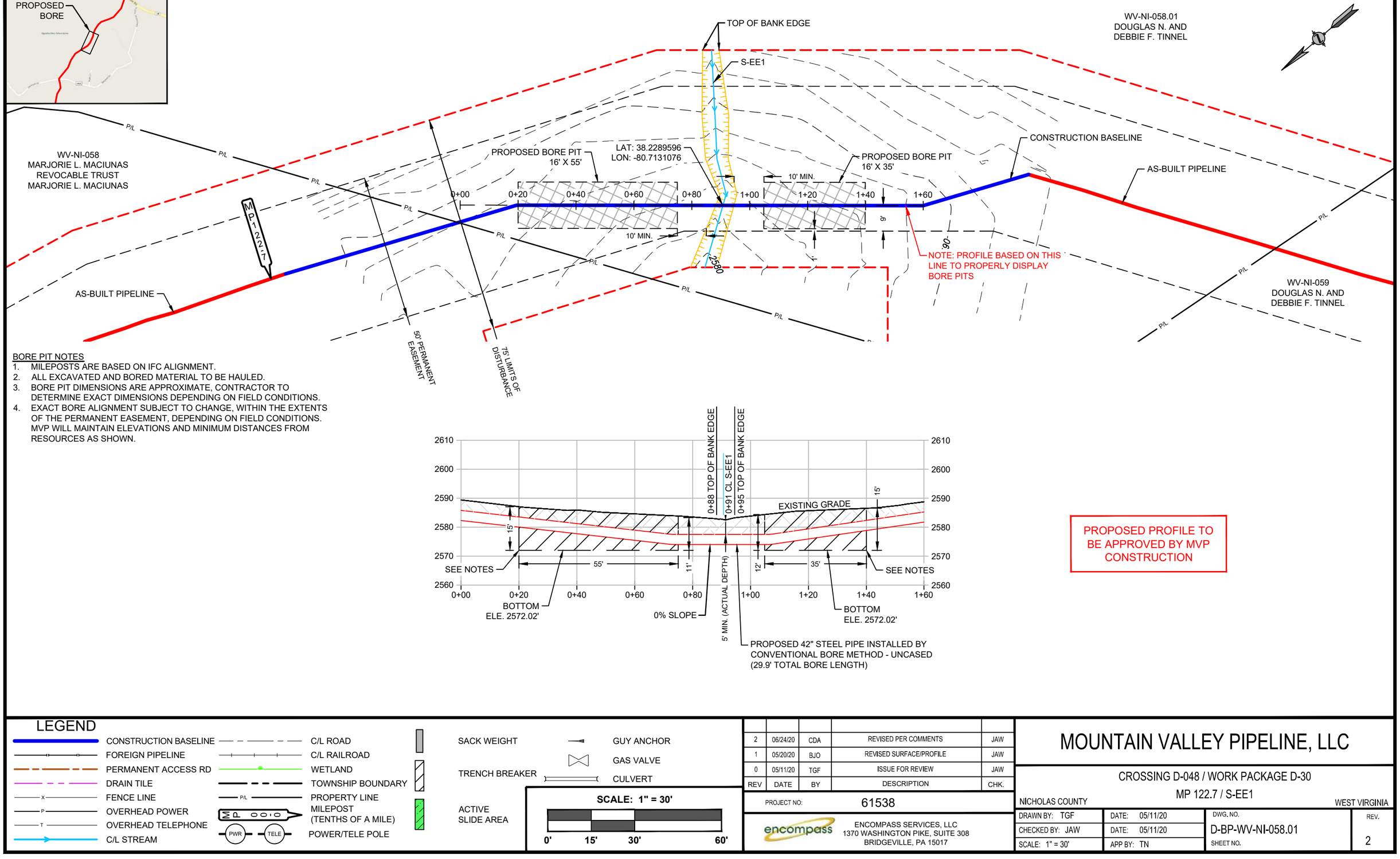
MP 118.4 / S-I48

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/27/20	DWG. NO. D-BP-WV-NI-043	REV. 2
CHECKED BY: JAW	DATE: 05/27/20		
SCALE: 1"=20'	APP BY: TN	SHEET NO.	

VICINITY MAP





BORE PIT NOTES

1. MILEPOSTS ARE BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
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PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
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- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 30"

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/24/20	CDA	REVISED PER COMMENTS	JAW
1	05/20/20	BJO	REVISED SURFACE/PROFILE	JAW
0	05/11/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

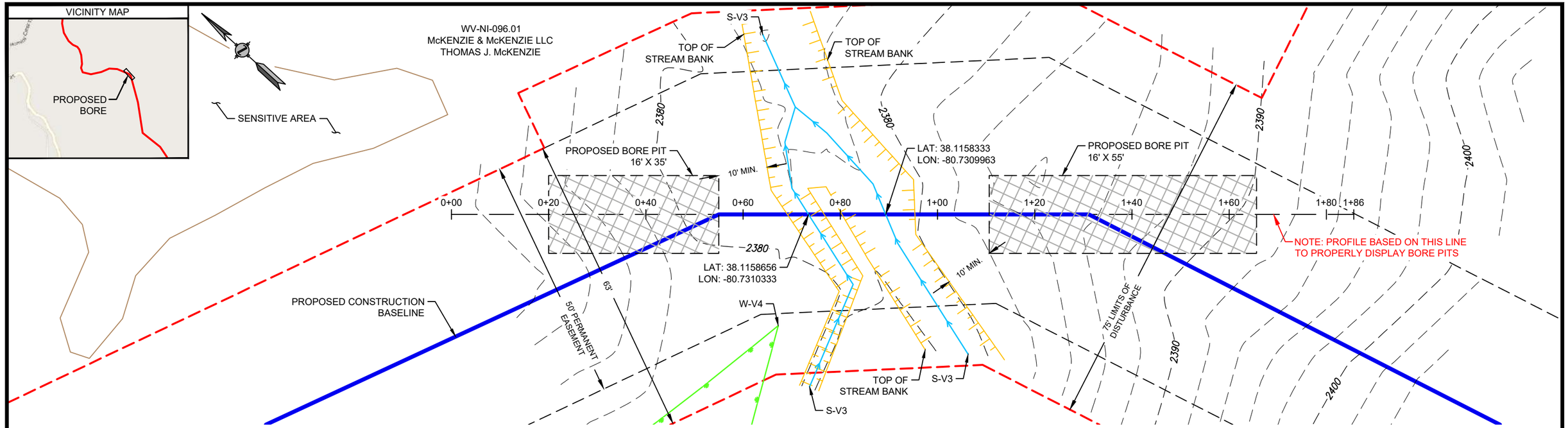
CROSSING D-048 / WORK PACKAGE D-30

MP 122.7 / S-EE1

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/11/20	DWG. NO. D-BP-WV-NI-058.01	REV. 2
CHECKED BY: JAW	DATE: 05/11/20		
SCALE: 1" = 30'	APP BY: TN	SHEET NO.	

VICINITY MAP



BORE PIT NOTES

1. MILEPOST IS BASED ON IFC ALIGNMENT.
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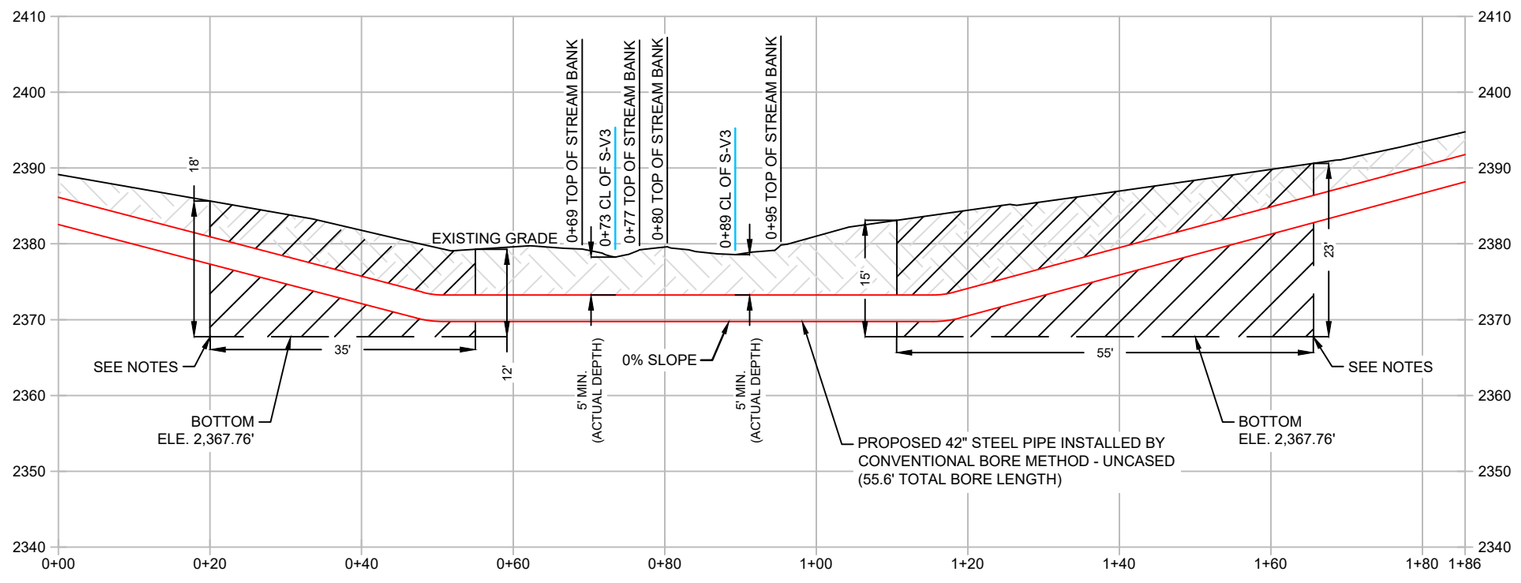

LEGEND

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- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/01/20	CDA	REVISED PER COMMENTS	JAW
0	05/27/20	AMM	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING E-005 / WORK PACKAGE E-06

MP 132.3 / S-V3

NICHOLAS COUNTY WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/27/20	DWG. NO. E-BP-WV-096.01	REV. 1
CHECKED BY: JAW	DATE: 05/27/20		
SCALE: 1"=20'	APP BY: TN	SHEET NO.	

VICINITY MAP

PROPOSED BORE

MVP-ATWS-258 - 0.55 ACRES

MVP-ATWS-258B - 0.33 ACRES

MVP-ATWS-258A - 0.15 ACRES

PROPOSED BORE PIT
16' X 35'

PROPOSED BORE PIT
16' X 55'

NOTE: PROFILE BASED ON THIS LINE TO PROPERLY DISPLAY BORE PITS

LAT: 38.061187
LON: -80.720775

LAT: 38.061279
LON: -80.720544

10' MIN

10' MIN

W-M18

MP 136.7

CONSTRUCTION BASELINE

WV-GR-005
WEYERHAEUSER COMPANY, A
WASHINGTON CORPORATION

WV-GR-003
WEYERHAEUSER COMPANY, A
WASHINGTON CORPORATION

BAMBOO SCHOOL ROAD

ANGLINS CREEK ROAD

EXISTING CULVERT

50' PERMANENT EASEMENT

125' LIMITS OF DISTURBANCE

P/L

3350

3340

0+00 0+20 0+40 0+60 0+80 1+00 1+20 1+40 1+60 1+80 2+00 2+20 2+40 2+60 2+80 3+00 3+20 3+40

BORE PIT NOTES

1. CONTRACTOR TO VERIFY MINIMUM DEPTH BELOW ROADS WITH THE COUNTY.
2. MILEPOST IS BASED ON IFC ALIGNMENT.
3. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
4. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
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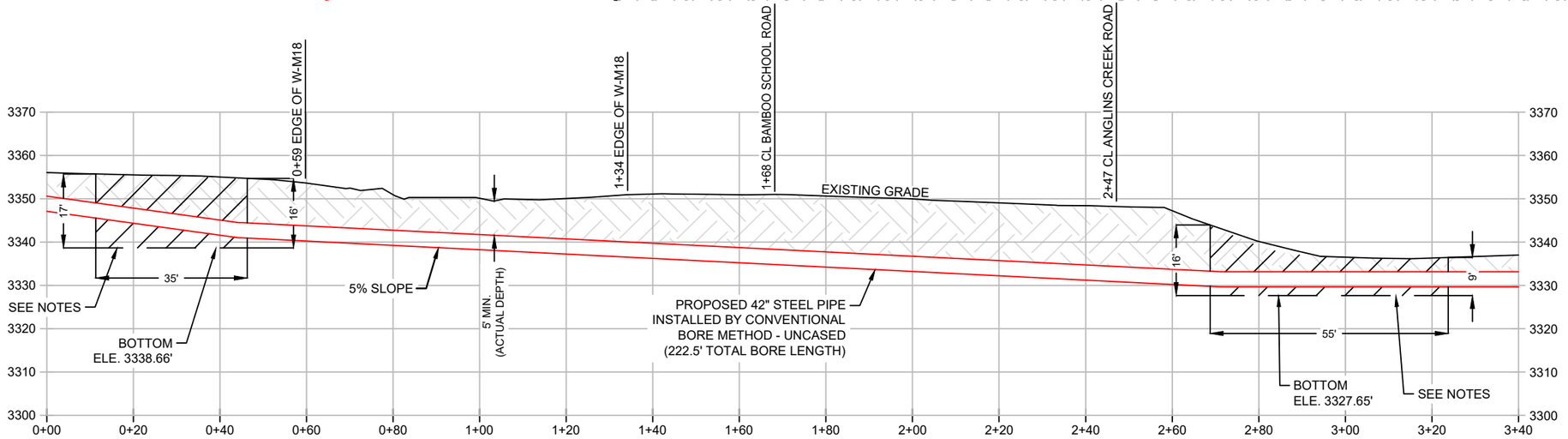

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SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/01/20	CDA	REVISED PER COMMENTS	JAW
1	05/25/20	JGG	ISSUE FOR REVIEW	JAW
0	05/14/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

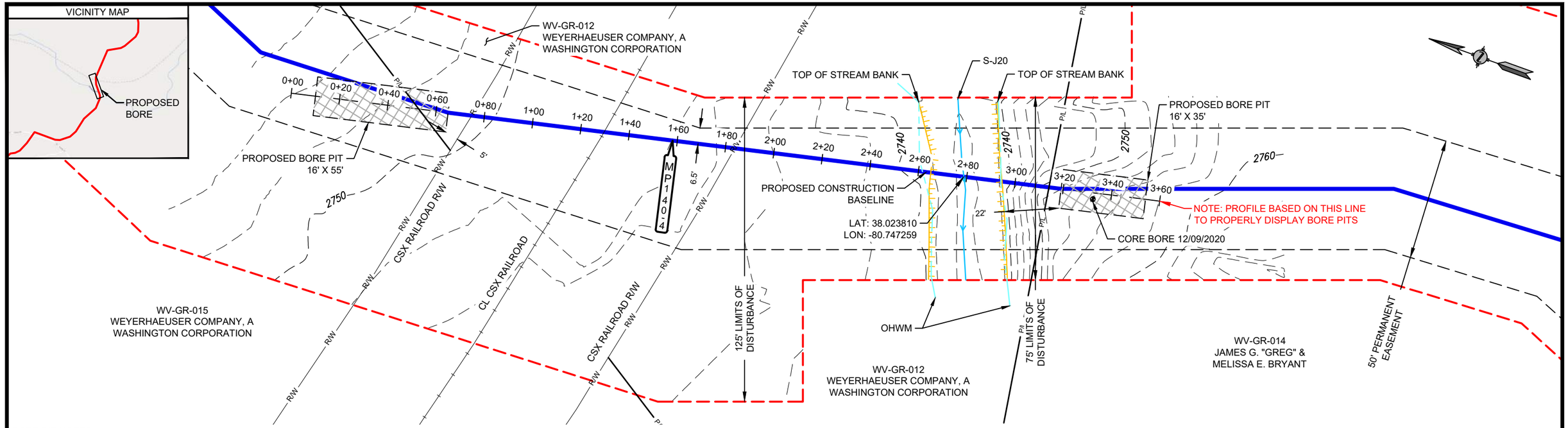
encompass

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING E-009 / WORK PACKAGE E-11
MP 136.7 / W-M18, BAMBOO SCHOOL ROAD AND ANGLINS CREEK ROAD
GREENBRIER COUNTY WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/14/20	DWG. NO. E-BP-WV-GR-003-2	REV. 2
CHECKED BY: JAW	DATE: 05/14/20		
SCALE: 1" = 30'	APP BY: TN	SHEET NO.	



BORE PIT NOTES

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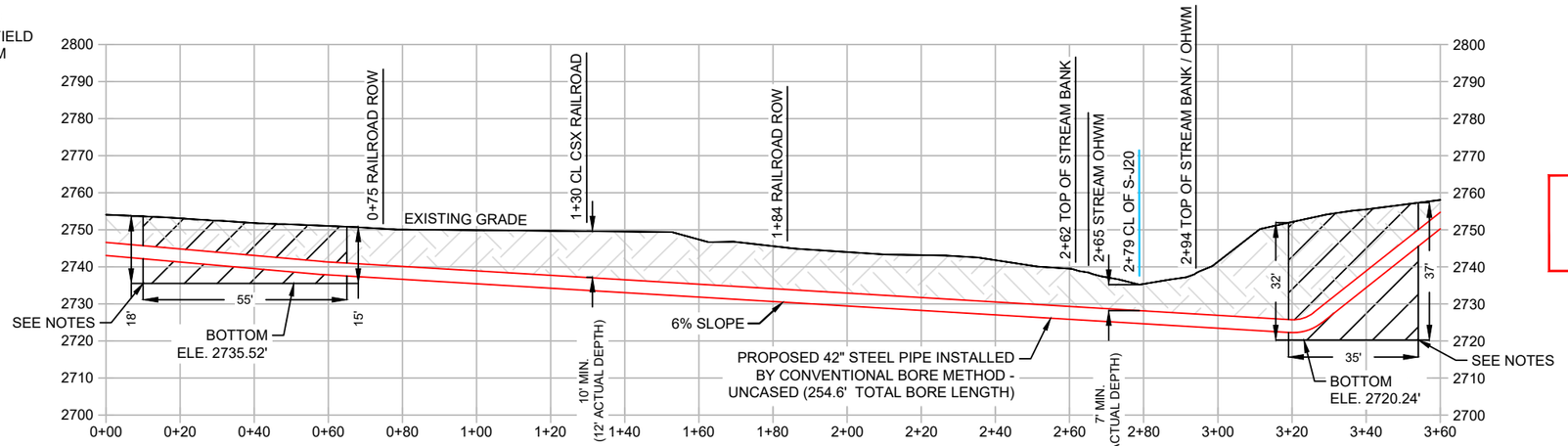

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- CULVERT

SCALE: 1" = 40'

0' 10' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
4	02/11/21	AMM	REVISED PLAN VIEW AND BORE PROFILE	JAW
3	02/04/21	AMM	ADDED FIELD REVISED BORE PIT	JAW
2	06/01/20	CDA	REVISED PER COMMENTS	JAW
1	05/30/20	JGG	REVISED PER CLIENT COMMENTS	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

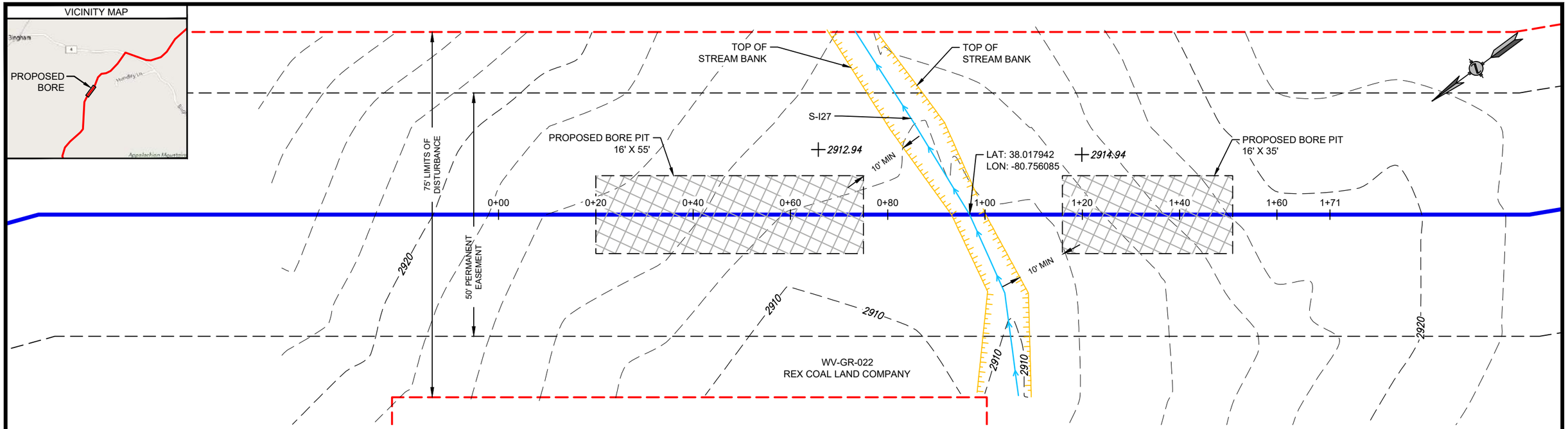
CROSSING E-012 / WORK PACKAGE E-22

MP 140.4 / S-J20

GREENBRIER COUNTY WEST VIRGINIA

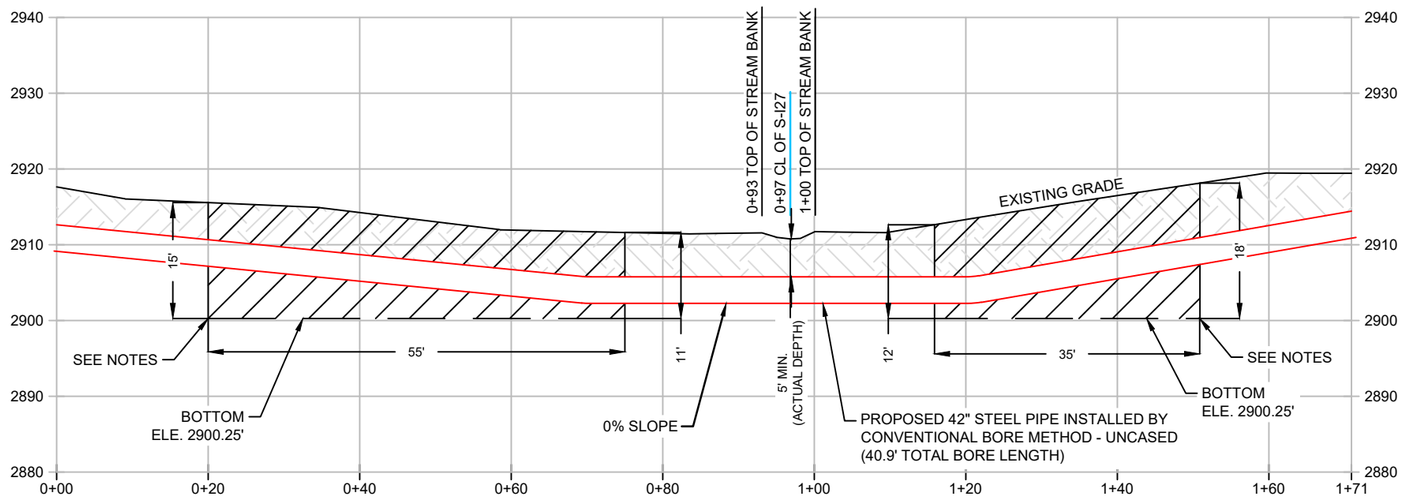
DRAWN BY: BJO	DATE: 05/20/20	DWG. NO. E-BP-WV-GR-012	REV. 4
CHECKED BY: JAW	DATE: 05/20/20		
SCALE: 1" = 40'	APP BY: TN	SHEET NO.	

VICINITY MAP



BORE PIT NOTES

1. MILEPOST IS BASED ON IFC ALIGNMENT.
2. ALL EXCAVATED AND BORED MATERIAL TO BE HAULED.
3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.



PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 20'

0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/01/20	CDA	REVISED PER COMMENTS	JAW
0	05/29/20	JGG	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

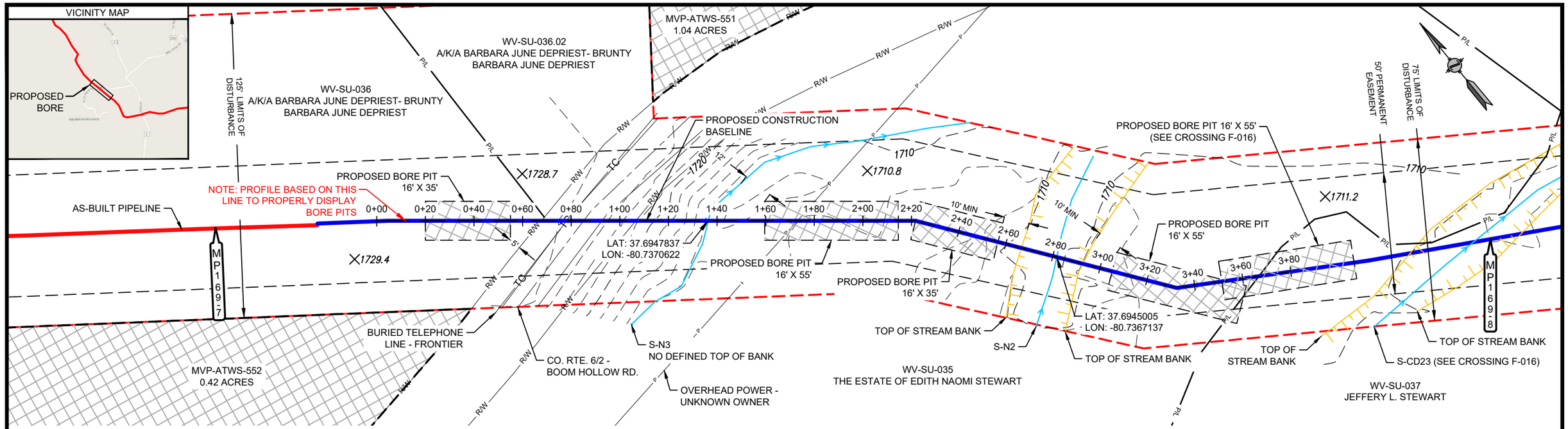
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING E-015 / WORK PACKAGE E-17

MP 141.1 / S-I27

GREENBRIER COUNTY WEST VIRGINIA

DRAWN BY: JGG	DATE: 05/29/20	DWG. NO. E-BP-WV-GR-022-2	REV. 1
CHECKED BY: JAW	DATE: 05/29/20	SHEET NO.	
SCALE: 1"=20'	APP BY: TN		



BORE PIT NOTES

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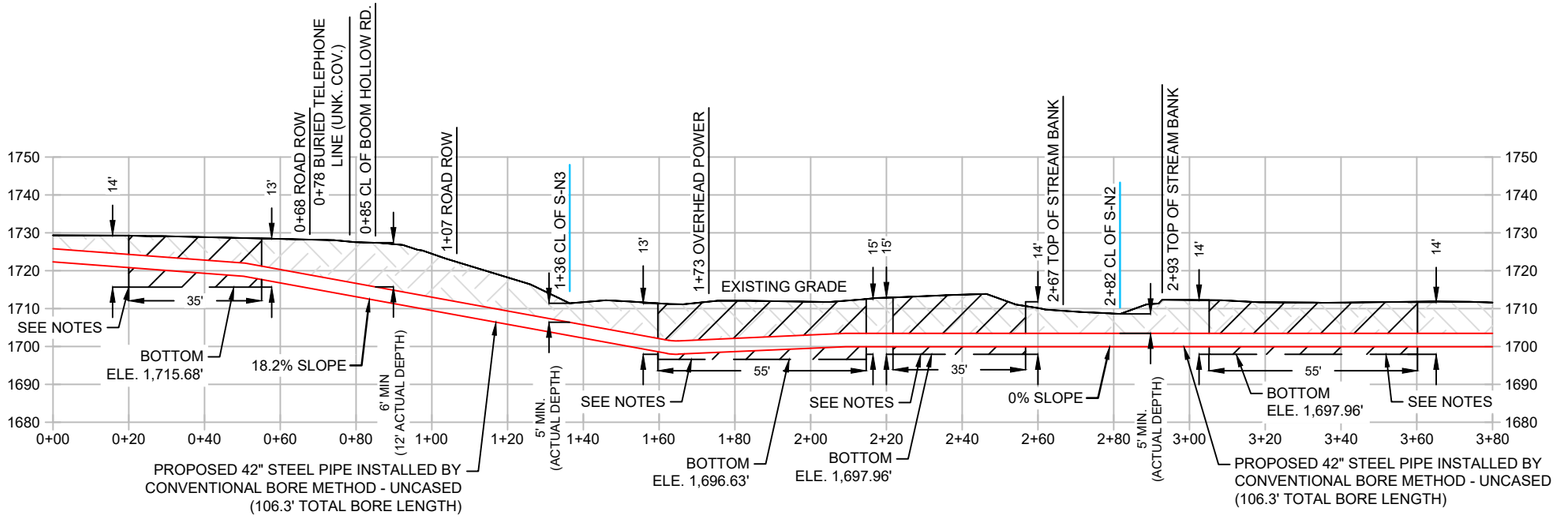
4. EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN.
5. CONTRACTOR TO VERIFY MINIMUM DEPTH BELOW ROADS WITH THE COUNTY.

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION



LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
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- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 40'

0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/15/20	AMM	REVISED BORE PROFILE	JAW
1	06/10/20	CDA	REVISED PER COMMENTS	JAW
0	05/14/20	AMM	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

encompass

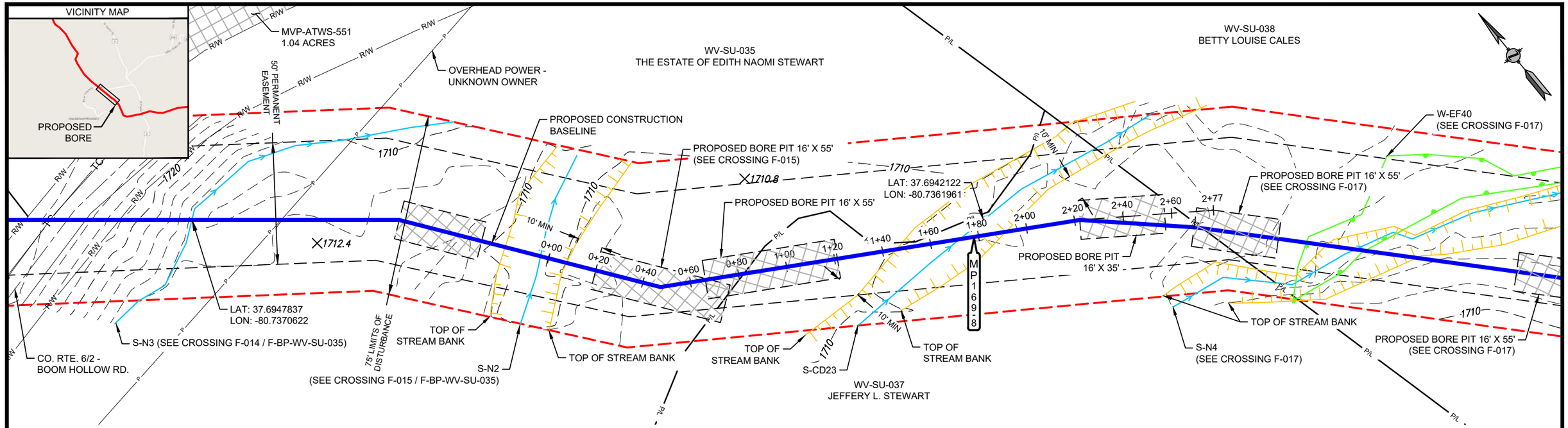
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING F-014 AND F-015 / WORK PACKAGE F-12
MP 169.7 / S-N3 AND S-N2

SUMMERS COUNTY — WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/14/20	DWG. NO. F-BP-WV-SU-035	REV. 2
CHECKED BY: JAW	DATE: 05/14/20		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	



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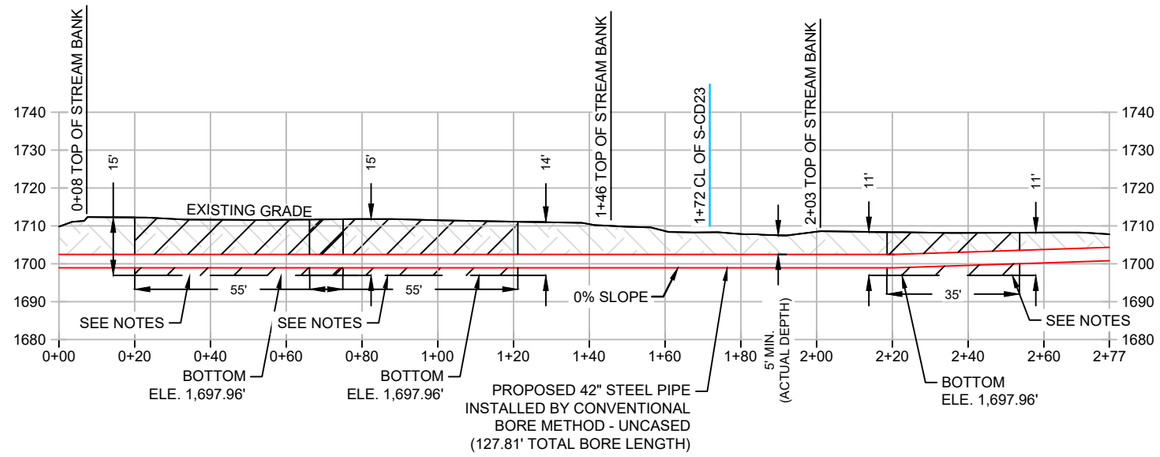

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
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- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 40'

0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
2	06/16/20	TGF	UPDATED PITS FROM F-017	JAW
1	06/09/20	CDA	REVISED PER COMMENTS	JAW
0	05/15/20	AMM	ISSUE FOR REVIEW	JAW

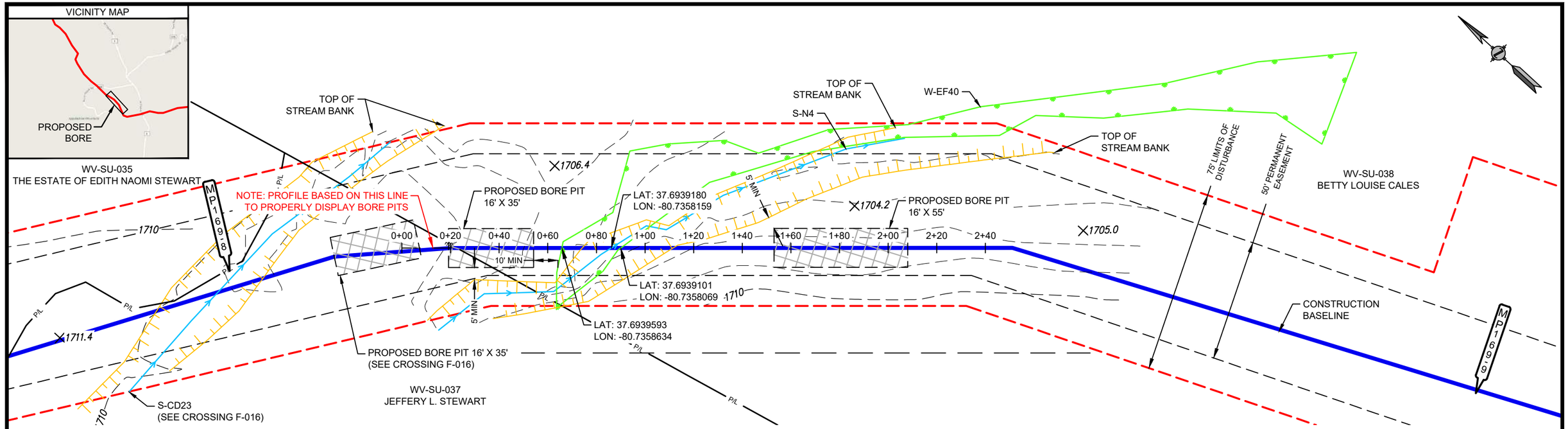
PROJECT NO: 61538

encompass
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING F-016 / WORK PACKAGE F-12
MP 169.8 / S-CD23
SUMMERS COUNTY WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/15/20	DWG. NO. F-BP-WV-SU-035-2	REV. 2
CHECKED BY: JAW	DATE: 05/15/20		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	



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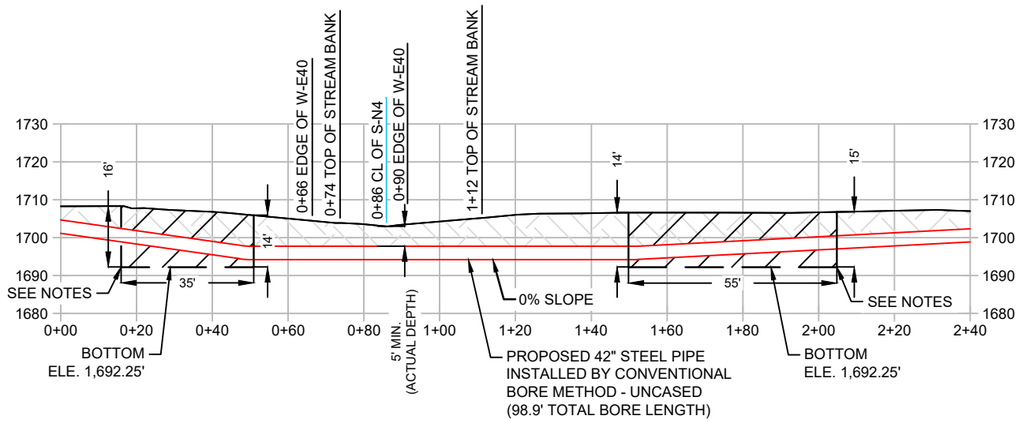

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
- FOREIGN PIPELINE
- PERMANENT ACCESS RD
- DRAIN TILE
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L STREAM
- C/L ROAD
- C/L RAILROAD
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- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 40'

0' 20' 40' 80'

REV	DATE	BY	DESCRIPTION	CHK.
4	06/16/20	TGF	REVISED PER COMMENTS	JAW
3	06/15/20	TGF	REVISED PER COMMENTS	JAW
2	06/12/20	CDA	REVISED PER COMMENTS	JAW
1	05/26/20	JGG	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING F-017 / WORK PACKAGE F-12

MP 169.8 / S-N4 AND W-EF40

SUMMERS COUNTY WEST VIRGINIA

DRAWN BY: AMM	DATE: 05/18/20	DWG. NO. F-BP-WV-SU-038-1	REV. 4
CHECKED BY: JAW	DATE: 05/18/20		
SCALE: 1"=40'	APP BY: TN	SHEET NO.	

RIGHT-OF-WAY & OWNERSHIP DATA

DESIGN
- PIPE / COATING
- SLOPE DISTANCE
- CLASS LOCATION / HCA

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
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- GUY ANCHOR
- 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

PI SYMBOL
MAILBOX
SIGN
TREE
TANK

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION

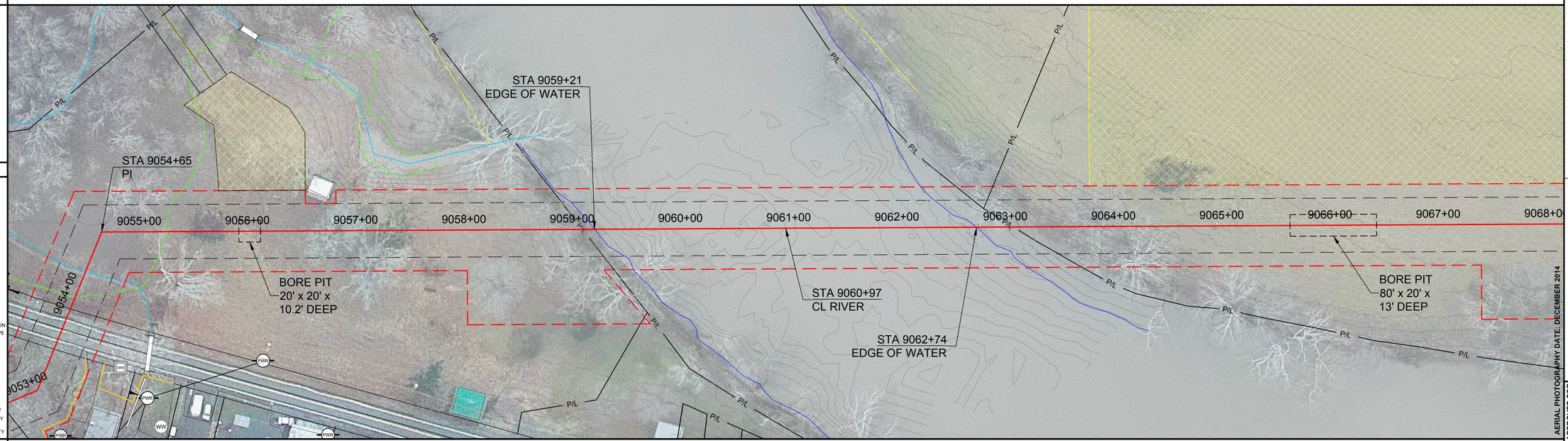
WORK SPACE
- PROPOSED PIPELINE
- EXISTING PIPELINE
- WORK SPACE LIMITS
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

CONSTRUCTION METHOD

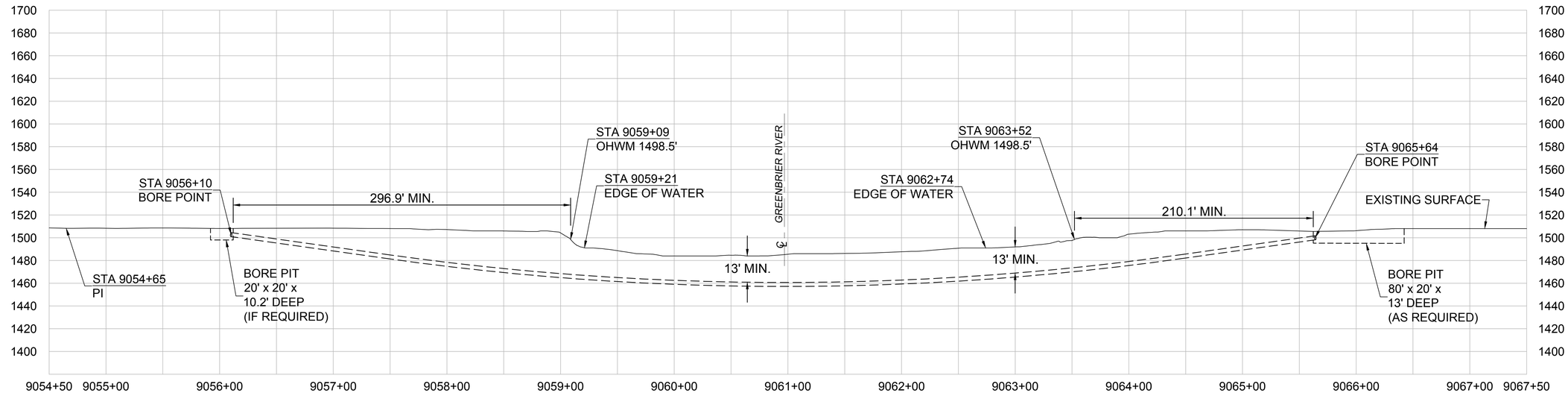
CONSTRUCTION METHOD KEY

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

PROFILE



PRELIMINARY



PROFILE

GREENBRIER RIVER- DIRECT PIPE

REVISIONS

REV.#	BY	DATE	DESCRIPTION

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION

AERIAL PHOTOGRAPHY DATE: DECEMBER 2014

APPROVED FOR BIDDING

REV.	BY	DATE

APPROVED FOR CONSTRUCTION

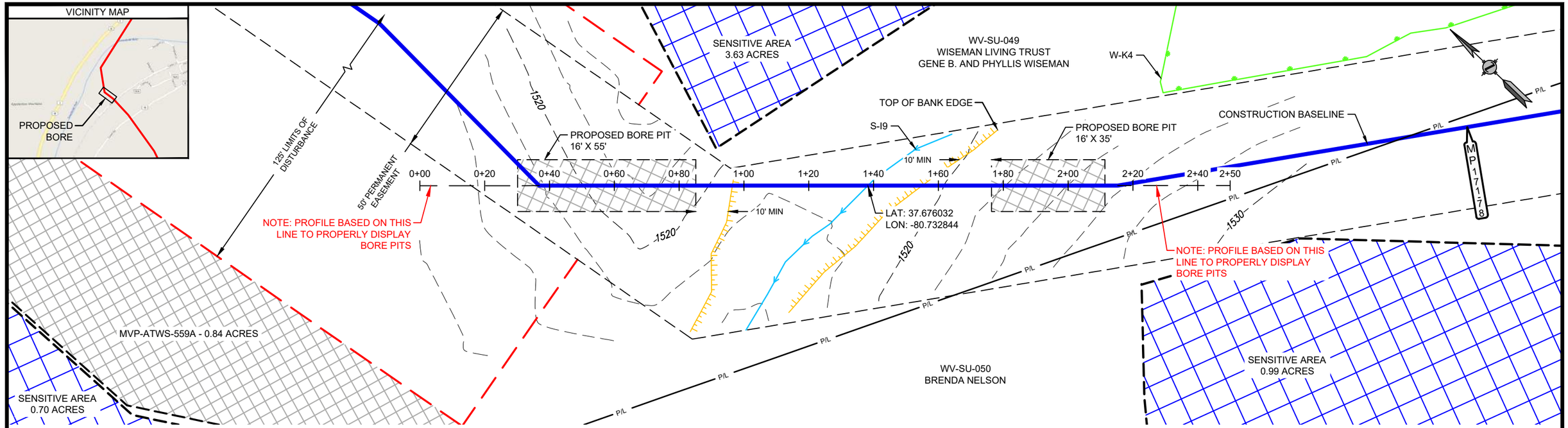
REV.	BY	DATE
0		

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE

TALCOTT DIST.,SUMMER CO.,W.V.



BORE PIT NOTES

1. MILEPOSTS IS BASED ON IFC ALIGNMENT.
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3. BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS.
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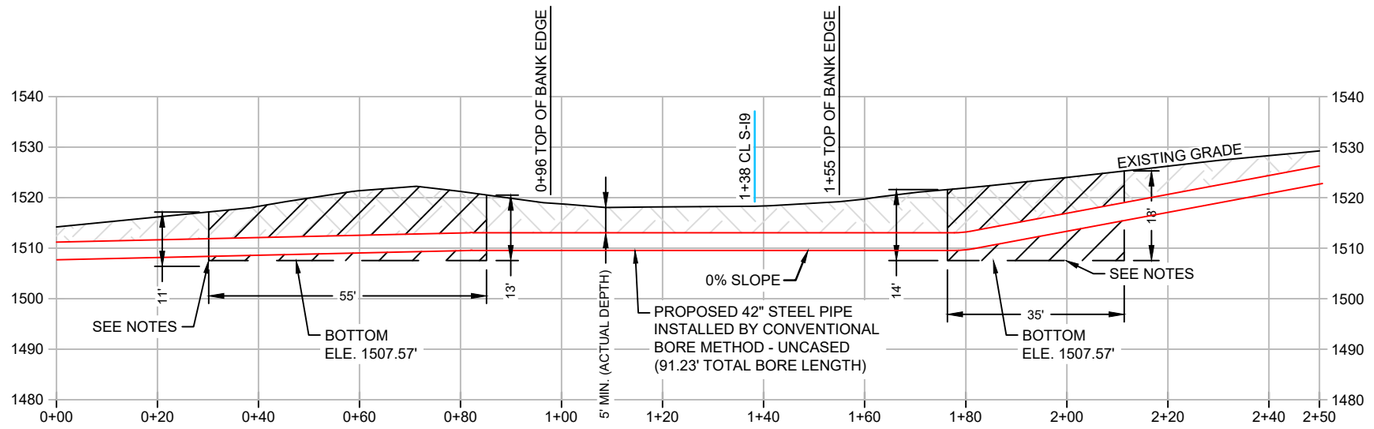

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

LEGEND

- CONSTRUCTION BASELINE
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- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
1	05/28/20	CDA	REVISED PER COMMENTS	JAW
0	05/09/20	TGF	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

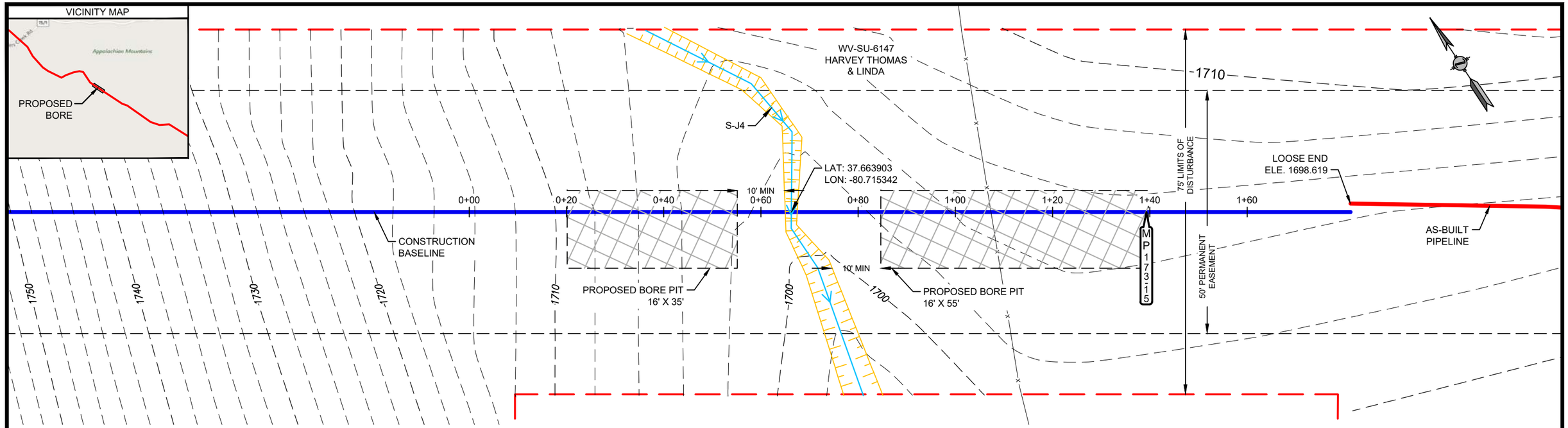
CROSSING F-22 / WORK PACKAGE F-13

MP 171.8 / S-I9

SUMMERS COUNTY — WEST VIRGINIA

DRAWN BY: TGF	DATE: 05/09/20	DWG. NO. F-BP-WV-SU-049	REV. 1
CHECKED BY: JAW	DATE: 05/09/20	SHEET NO.	
SCALE: 1" = 30'	APP BY: TN		

VICINITY MAP



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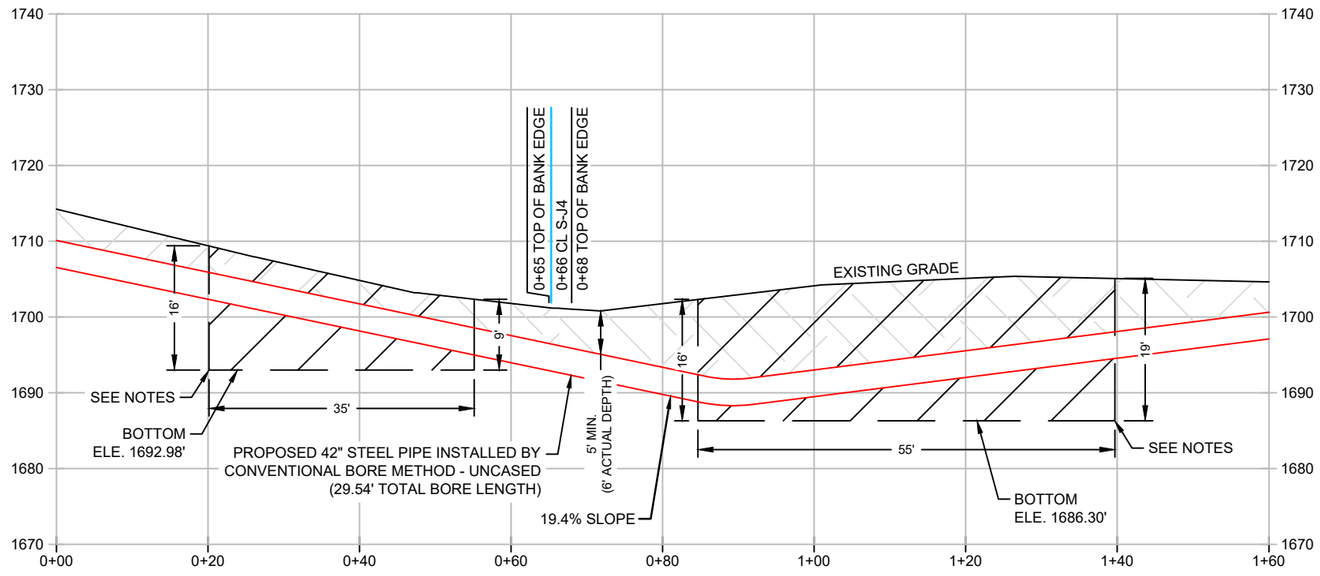

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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0' 10' 20' 40'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/10/20	CDA	REVISED PER COMMENTS	JAW
0	05/10/20	BJO	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

© Encompass Services, LLC

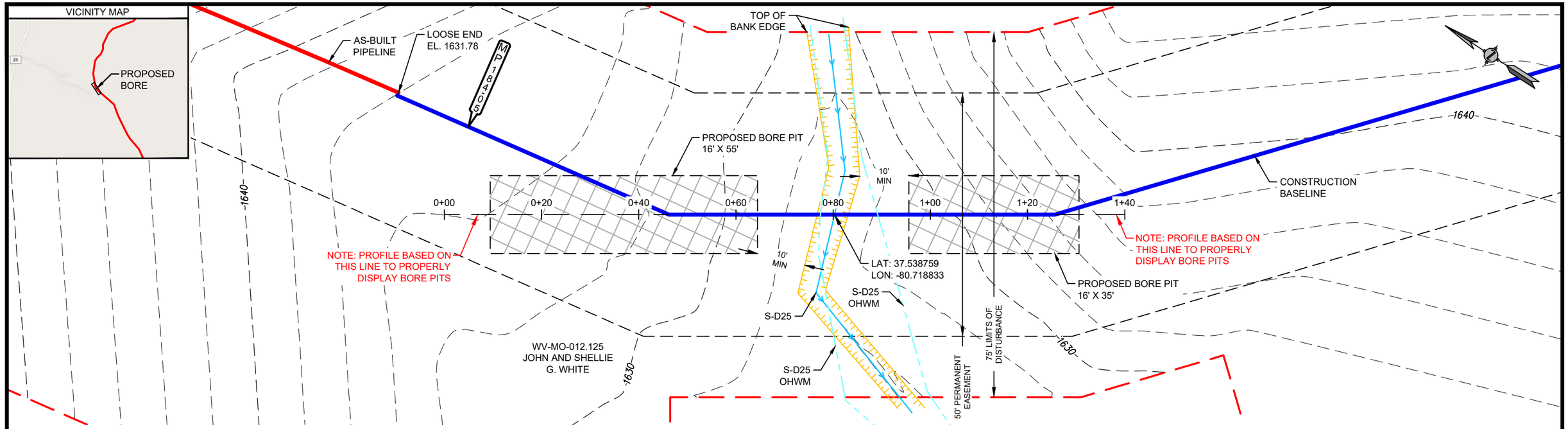
ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

MOUNTAIN VALLEY PIPELINE, LLC

CROSSING F-027 / WORK PACKAGE F-18
MP 173.15 / S-J4

SUMMERS COUNTY — WEST VIRGINIA

DRAWN BY: BJO	DATE: 05/10/20	DWG. NO. F-BP-WV-SU-6147	REV. 1
CHECKED BY: JAW	DATE: 05/10/20		
SCALE: 1" = 20'	APP BY: TN	SHEET NO.	



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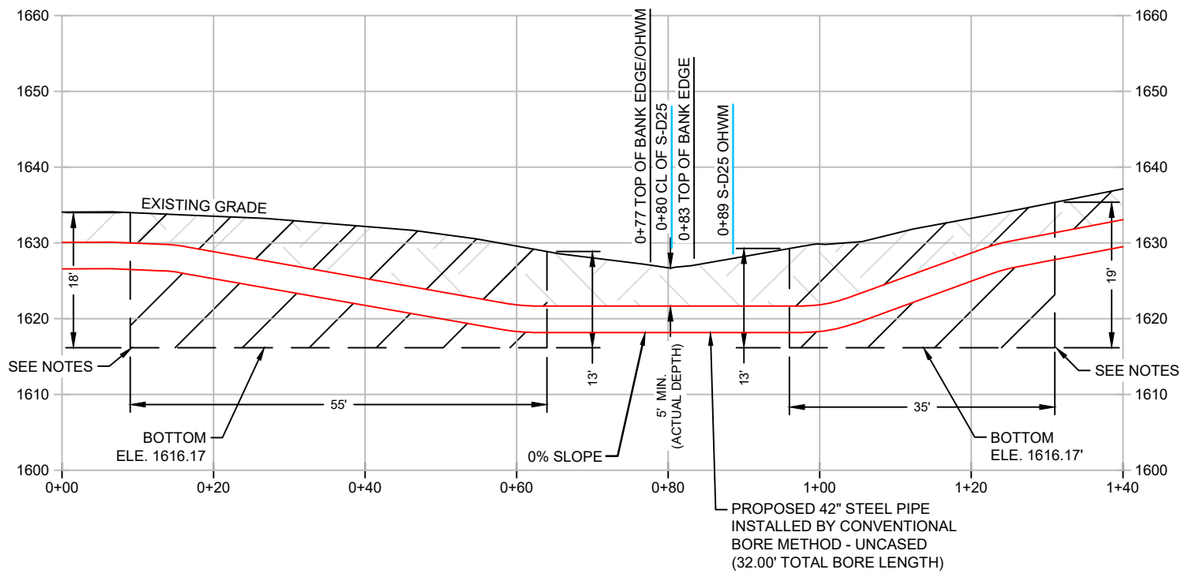

PROPOSED PROFILE TO BE APPROVED BY MVP CONSTRUCTION

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- CULVERT

SCALE: 1" = 20'

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REV	DATE	BY	DESCRIPTION	CHK.
2	05/28/20	CDA	REVISED PER COMMENTS	JAW
1	05/14/20	BJO	ISSUE FOR REVIEW	JAW
0	09/10/19	TGF	ISSUE FOR REVIEW	REH

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

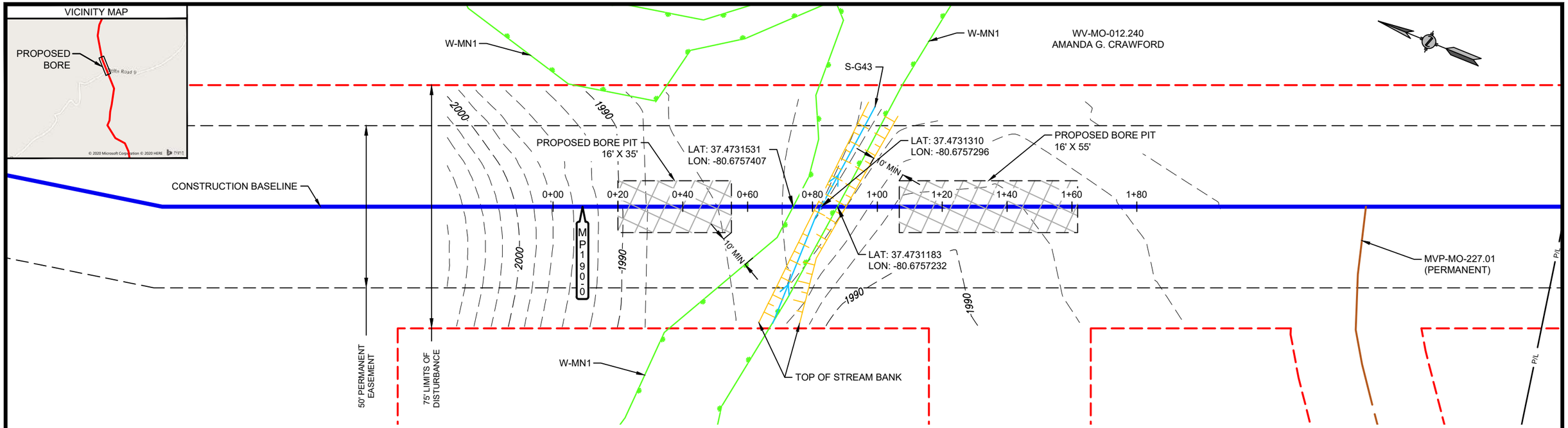
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING F-032 / WORK PACKAGE F-22

MP 184.05 / S-D25

MONROE COUNTY WEST VIRGINIA

DRAWN BY: TGF	DATE: 09/10/19	DWG. NO. F-BP-WV-MO-012.125	REV. 2
CHECKED BY: REH	DATE: 09/10/19		
SCALE: 1" = 20'	APP BY: TN	SHEET NO.	



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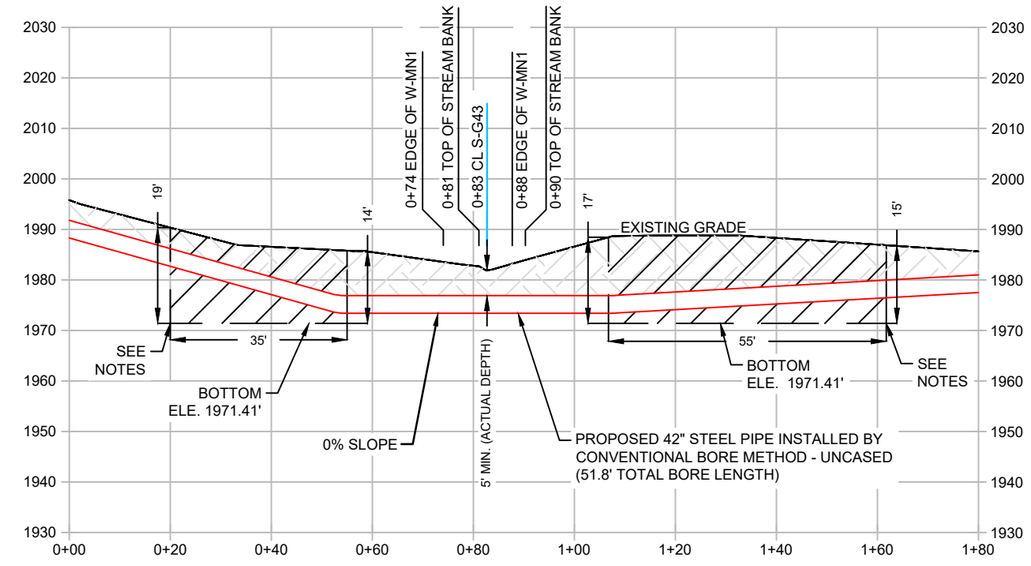

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- C/L STREAM
- C/L ROAD
- C/L RAILROAD
- WETLAND
- TOWNSHIP BOUNDARY
- PROPERTY LINE
- MILEPOST (TENTHS OF A MILE)
- POWER/TELE POLE
- SACK WEIGHT
- TRENCH BREAKER
- ACTIVE SLIDE AREA
- GUY ANCHOR
- GAS VALVE
- CULVERT

SCALE: 1" = 30'

0' 15' 30' 60'

REV	DATE	BY	DESCRIPTION	CHK.
1	06/02/20	CDA	REVISED PER COMMENTS	JAW
0	5/21/20	NTA	ISSUE FOR REVIEW	JAW

PROJECT NO: 61538

ENCOMPASS SERVICES, LLC
1370 WASHINGTON PIKE, SUITE 308
BRIDGEVILLE, PA 15017

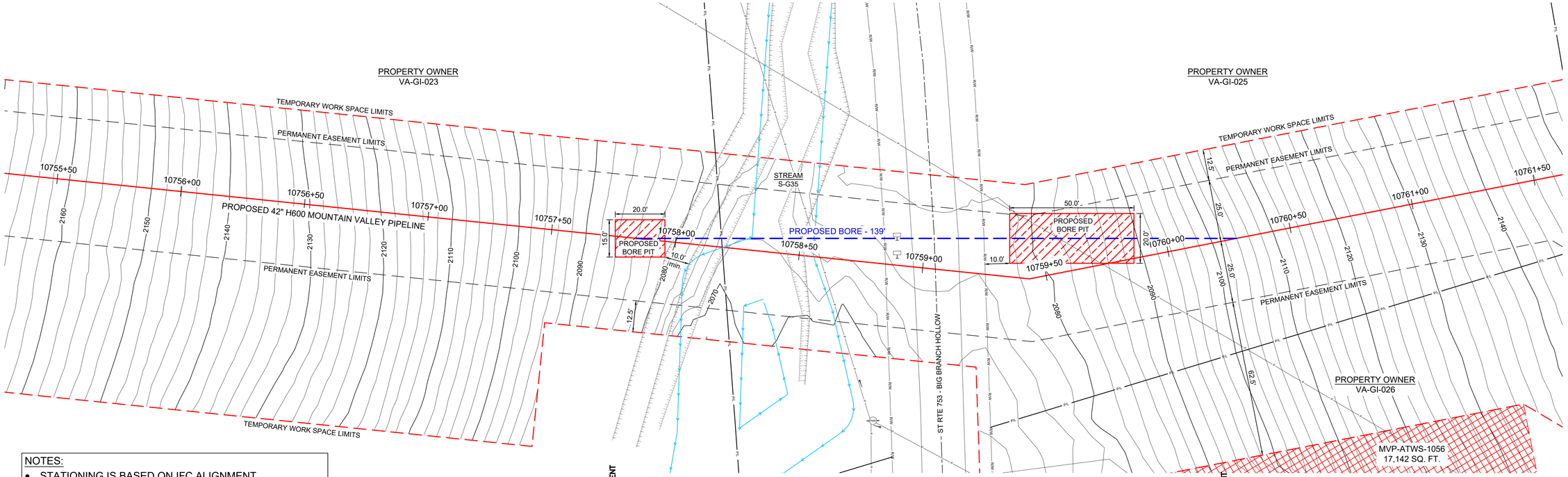
MOUNTAIN VALLEY PIPELINE, LLC

CROSSING F-039/ WORK PACKAGE F-29
MP 190.0/ S-G43 AND W-MN1

MONROE COUNTY — WEST VIRGINIA

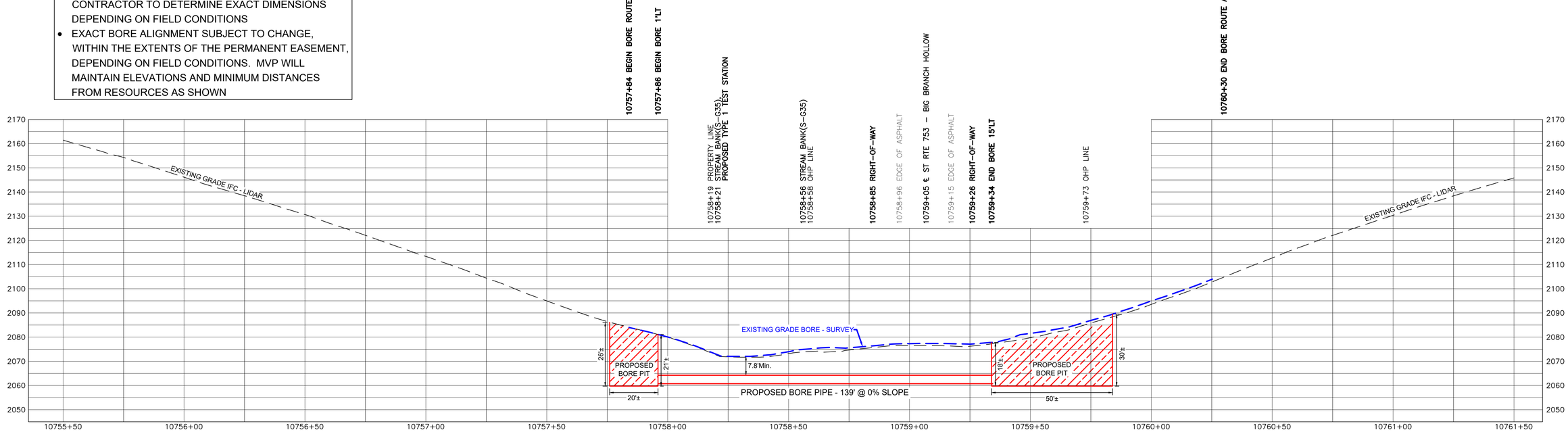
DRAWN BY: NTA	DATE: 5/21/20	DWG. NO. F-BP-WV-MO-012.240-1	REV. 1
CHECKED BY: JAW	DATE: 5/21/20		
SCALE: 1"=30'	APP BY: TN	SHEET NO.	

C/L MP 203.58



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/14/20	PRELIMINARY FOR REVIEW
1	HEI	06/09/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	01/15/21	REVISED MINIMUM(Min.) DEPTH TO MATCH SCOUR REQUIREMENTS

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

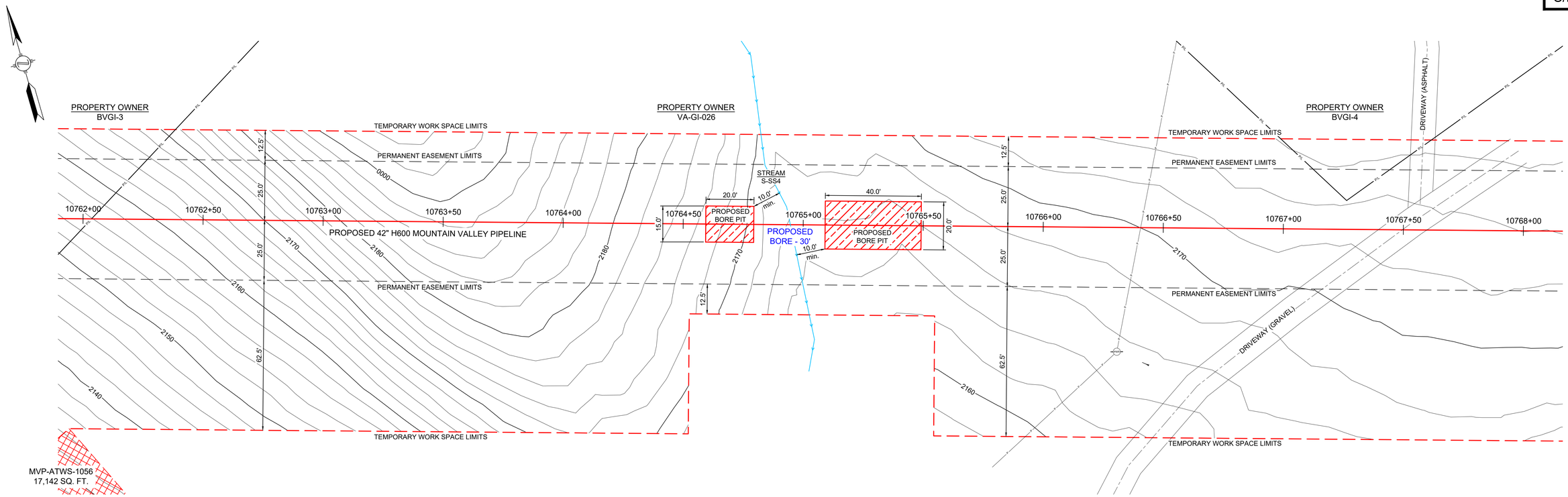
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
	---	-/-/-		---	-/-/-

VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/13/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-102
SHEET 1 OF 1	REV. 2
DATE OF PLOT:	1/15/2021 1:31 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10755+50 TO 10761+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 203.69



NOTES:

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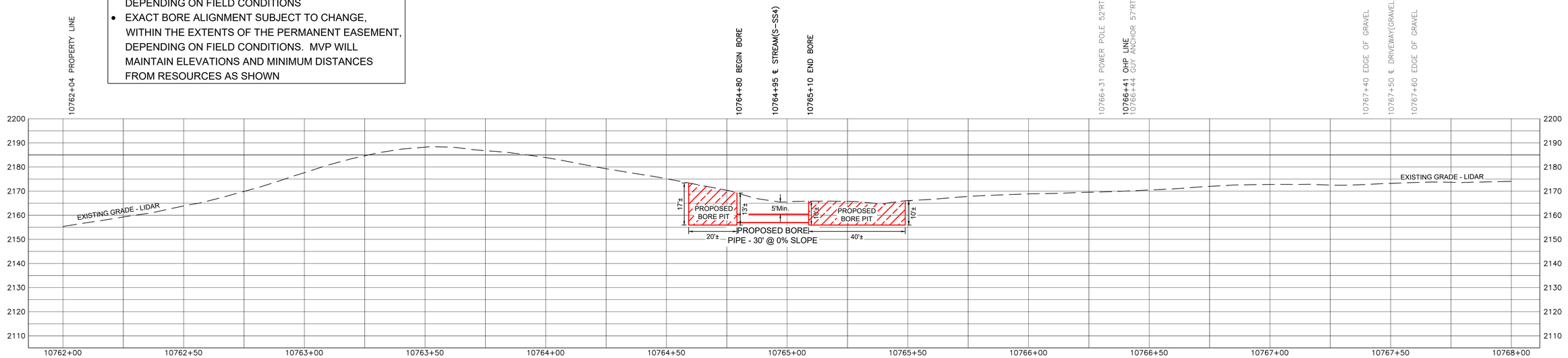

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/14/20	PRELIMINARY FOR REVIEW
1	HEI	06/09/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
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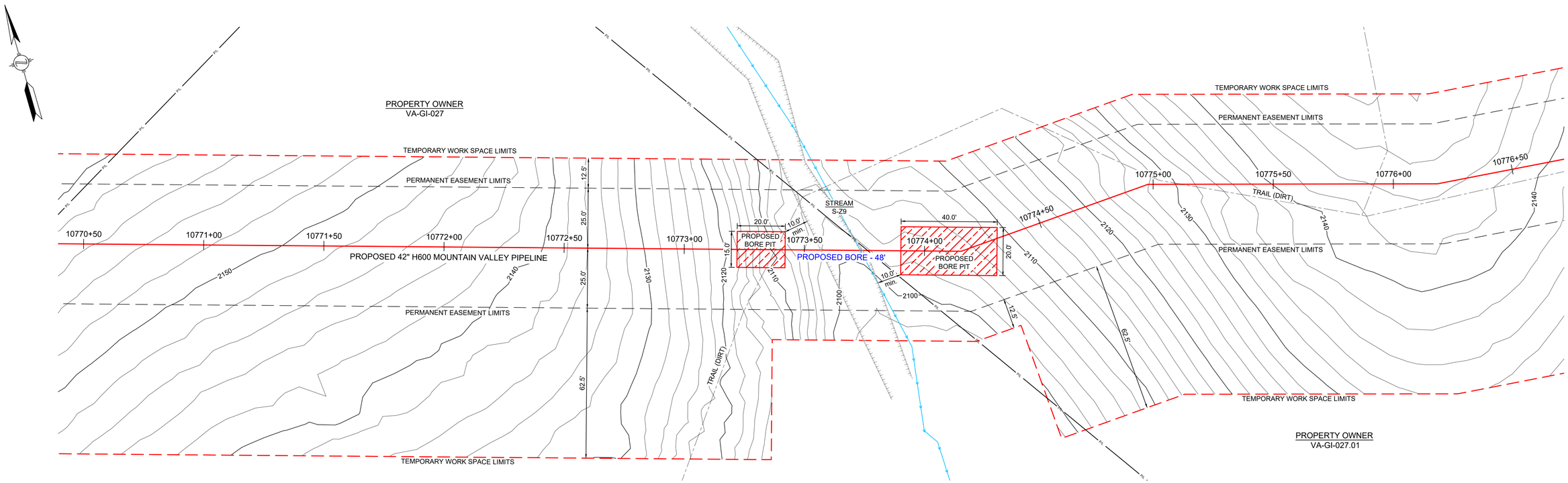
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	....	../../..	.	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/13/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-103
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/9/2020 9:24 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10762+00 TO 10768+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 203.86



NOTES:

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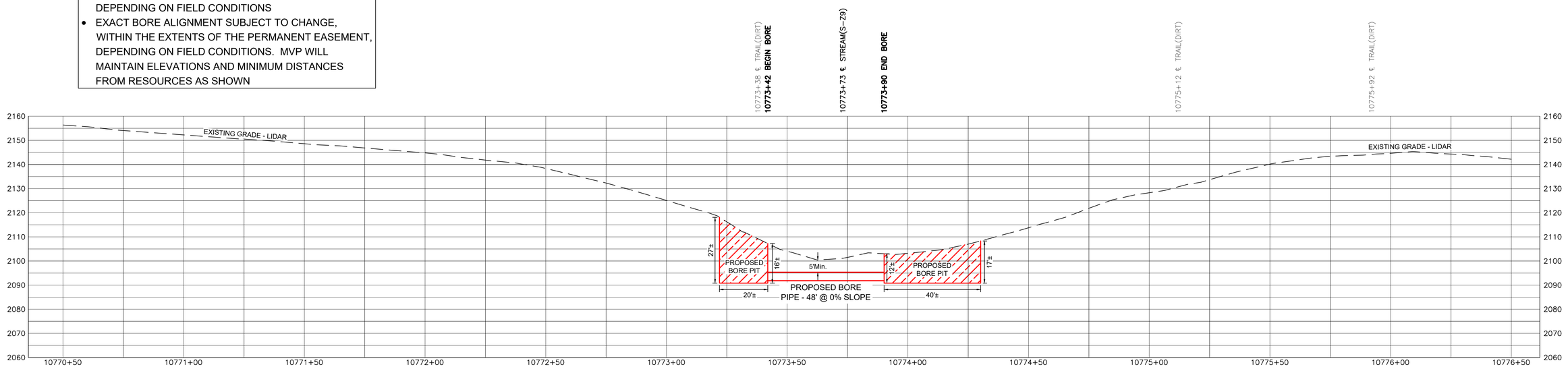

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
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- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/14/20	PRELIMINARY FOR REVIEW
1	HEI	06/09/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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www.hollandengineering.com

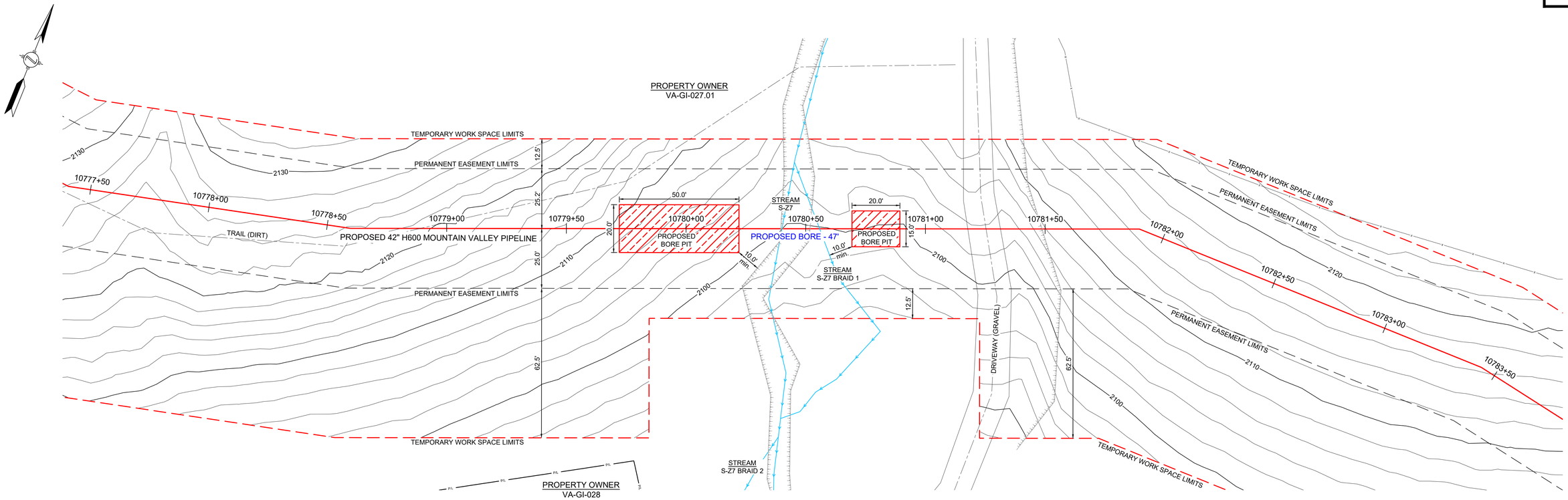
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	....	../../..	.	....	../../..

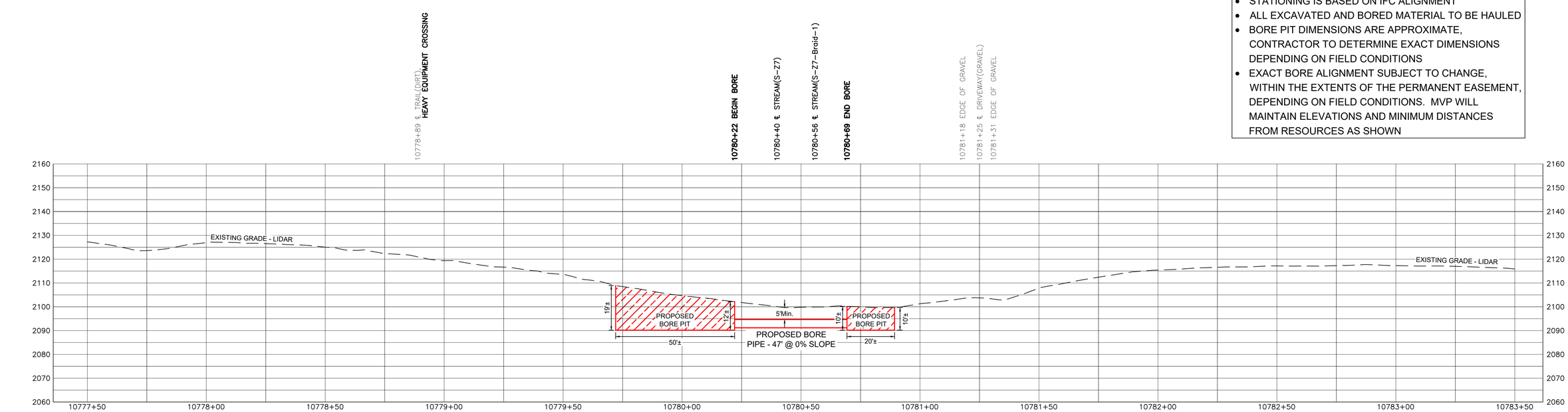
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/13/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-104
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	6/9/2020 9:37 AM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10770+50 TO 10776+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 203.99





NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/14/20	PRELIMINARY FOR REVIEW
1	HEI	06/09/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
T 616-392-5938 F 616-392-2116

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Southfield, Michigan 48076
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www.hollandengineering.com

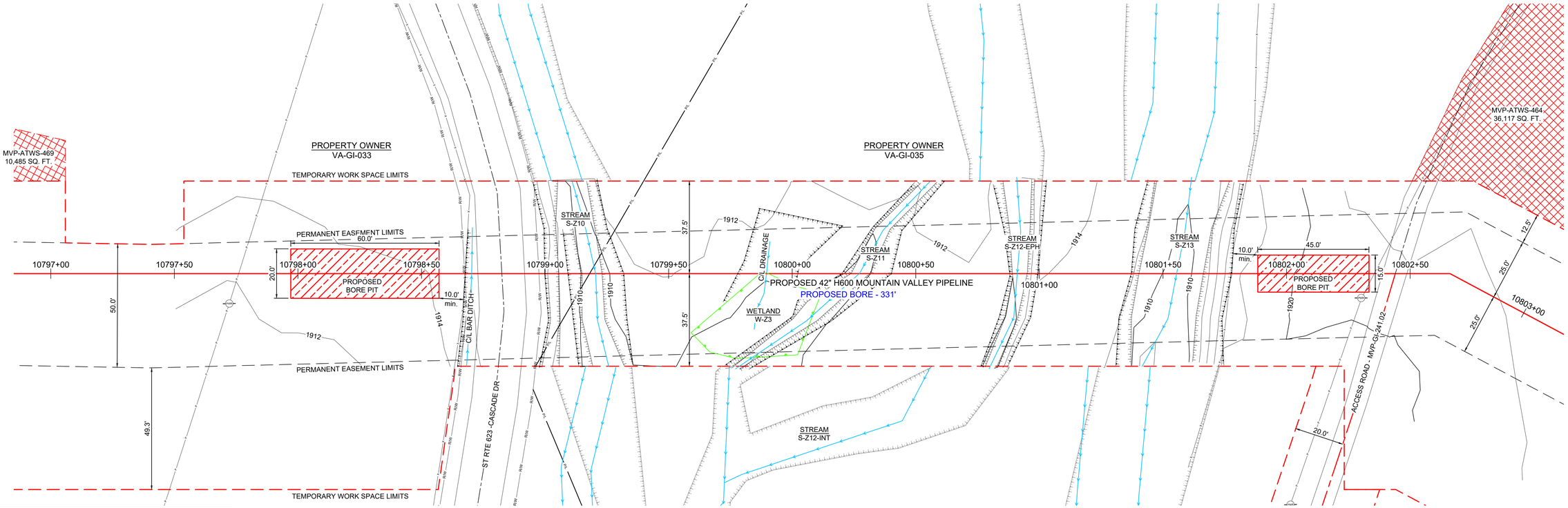
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/13/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-105	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/9/2020 10:09 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10777+50 TO 10783+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 204.35



NOTES:

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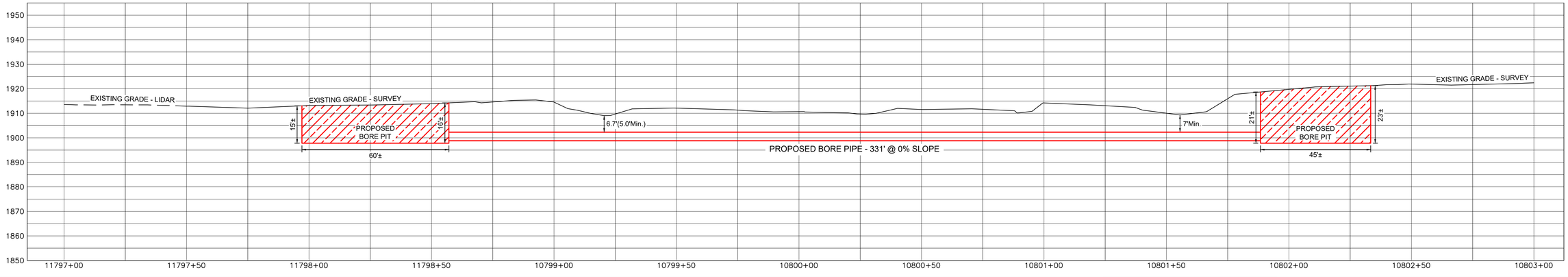
10797+76 OHP LINE
10798+57 BEGIN BORE
10798+68 R/W, FENCE, TOP OF BANK
10798+70 C/L BAR DITCH
10798+73 EDGE OF ASPHALT
10798+83 ℄ ST RTE 623 -CASCADE DR
10798+92 EDGE OF ASPHALT
10798+98 RIGHT-OF-WAY
10799+00 TOP OF BANK
10799+06 TOE OF BANK
10799+09 TOP OF BANK
10799+15 TOE OF BANK
10799+18 PROPERTY LINE
10799+20 ℄ STREAM (S-Z10)
10799+23 TOE OF BANK
10799+32 TOP OF BANK
10799+59 BEGIN WETLAND(W-Z3)24'RT
10799+78 TOP OF BANK
10799+90 C/L DRAINAGE
10800+02 TOP OF BANK
10800+12 END WETLAND(W-Z3)8'RT
10800+20 TOP OF BANK
10800+24 TOE OF BANK
10800+27 ℄ STREAM(S-Z11)
10800+31 TOE OF BANK
10800+40 TOP OF BANK
10800+88 TOP OF BANK
10800+89 TOE OF BANK
10800+91 ℄ STREAM(S-Z12-EPH)
10800+95 TOE OF BANK
10801+00 TOP OF BANK
10801+37 TOP OF BANK
10801+40 TOE OF BANK
10801+56 ℄ STREAM (S-Z13)
10801+66 TOE OF BANK
10801+78 TOP OF BANK, FENCE
10801+88 END BORE
10802+36 OHP LINE
10802+38 EDGE OF GRAVEL
10802+44 ℄ ST RTE 623 – ARCHER TRAIL, ACCESS RD – TEMPORARY (MVP-GI-241.02)
10802+49 EDGE OF GRAVEL



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/05/20	PRELIMINARY FOR REVIEW
1	HEI	06/23/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	08/28/20	REVISED EAST BORE PIT

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

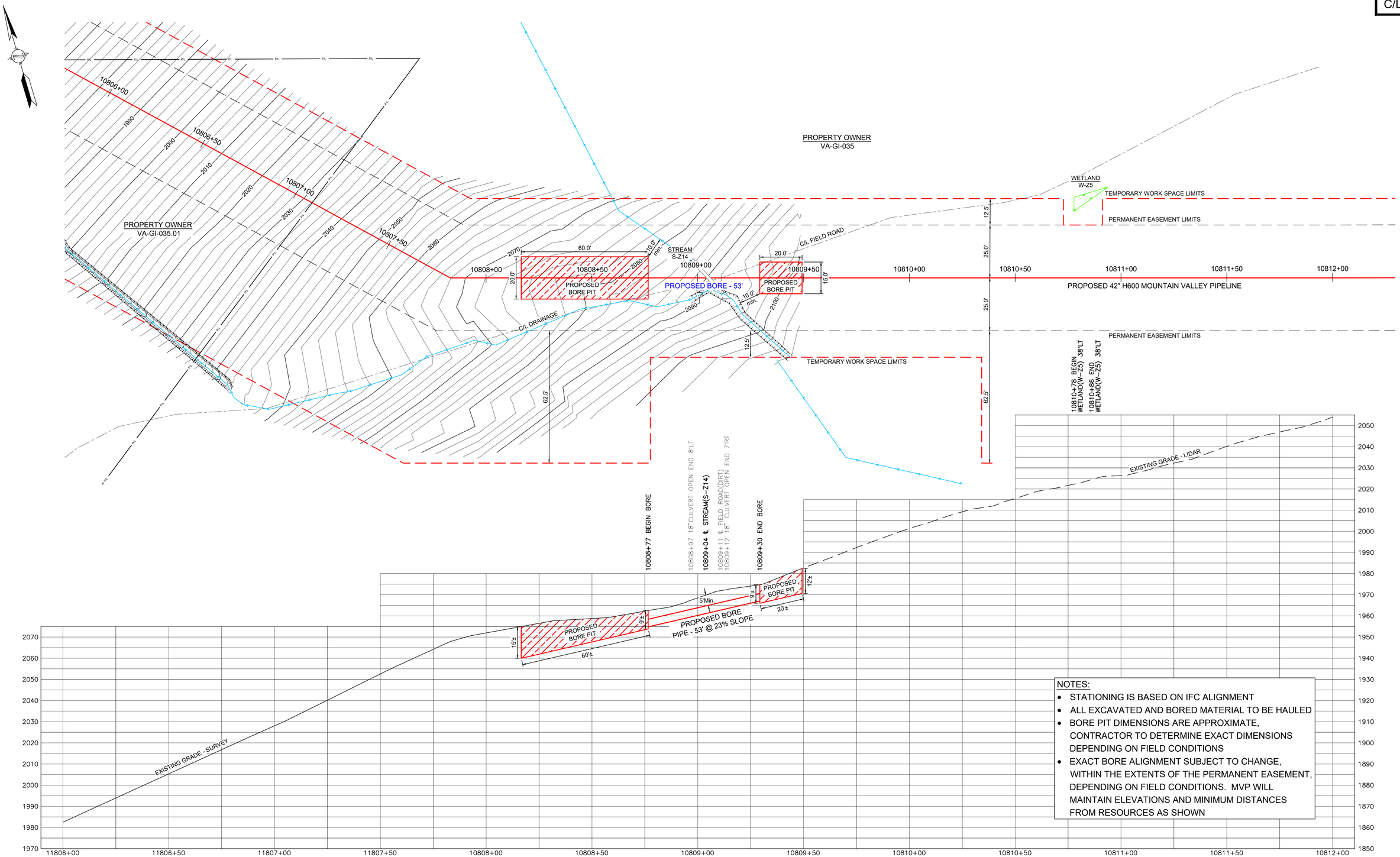
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	
PP-H600-037	
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 8/28/2020 9:51 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10797+00 TO 10803+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 204.53



NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- STREAM
- CULVERT
- MAILBOX
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- LINE MARKER
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- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-10	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/23/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

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Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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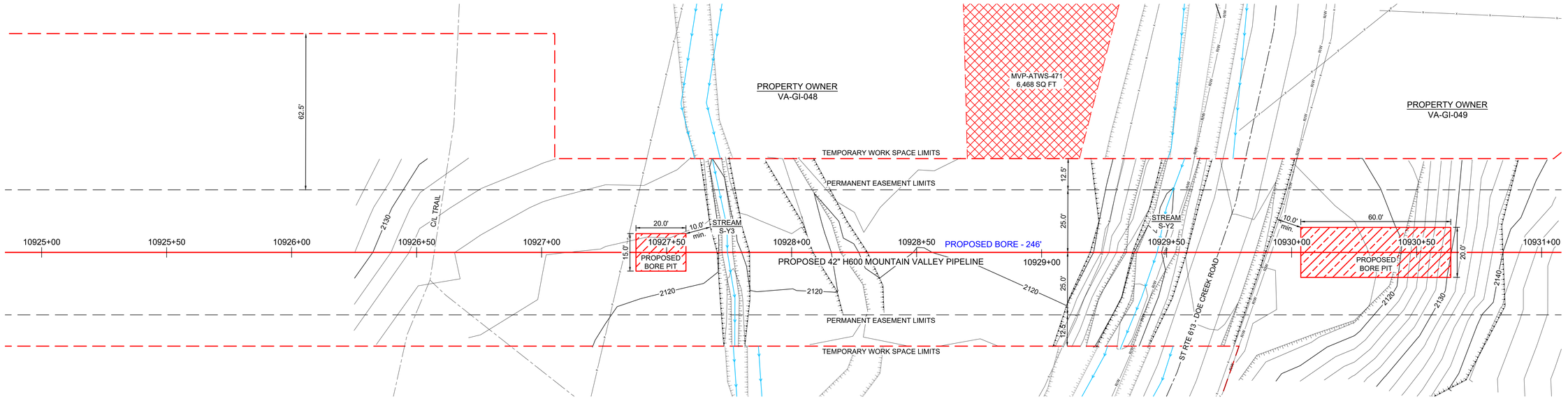
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	--/--/--	-	---	--/--/--

VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/22/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-038
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	6/23/2020 12:15 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10806+00 TO 10812+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 206.80



NOTES:

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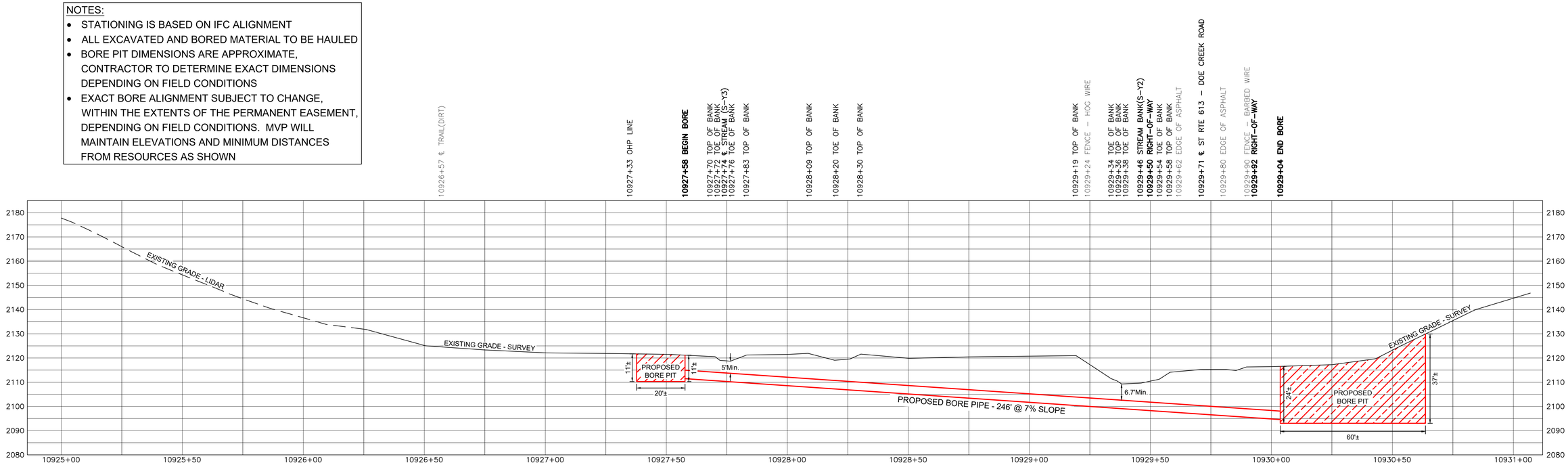

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY (RW)
- PROPERTY LINE (P/L)
- FENCE (X)
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN (W)
- OVERHEAD POWER LINE (P)
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-12	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	06/10/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

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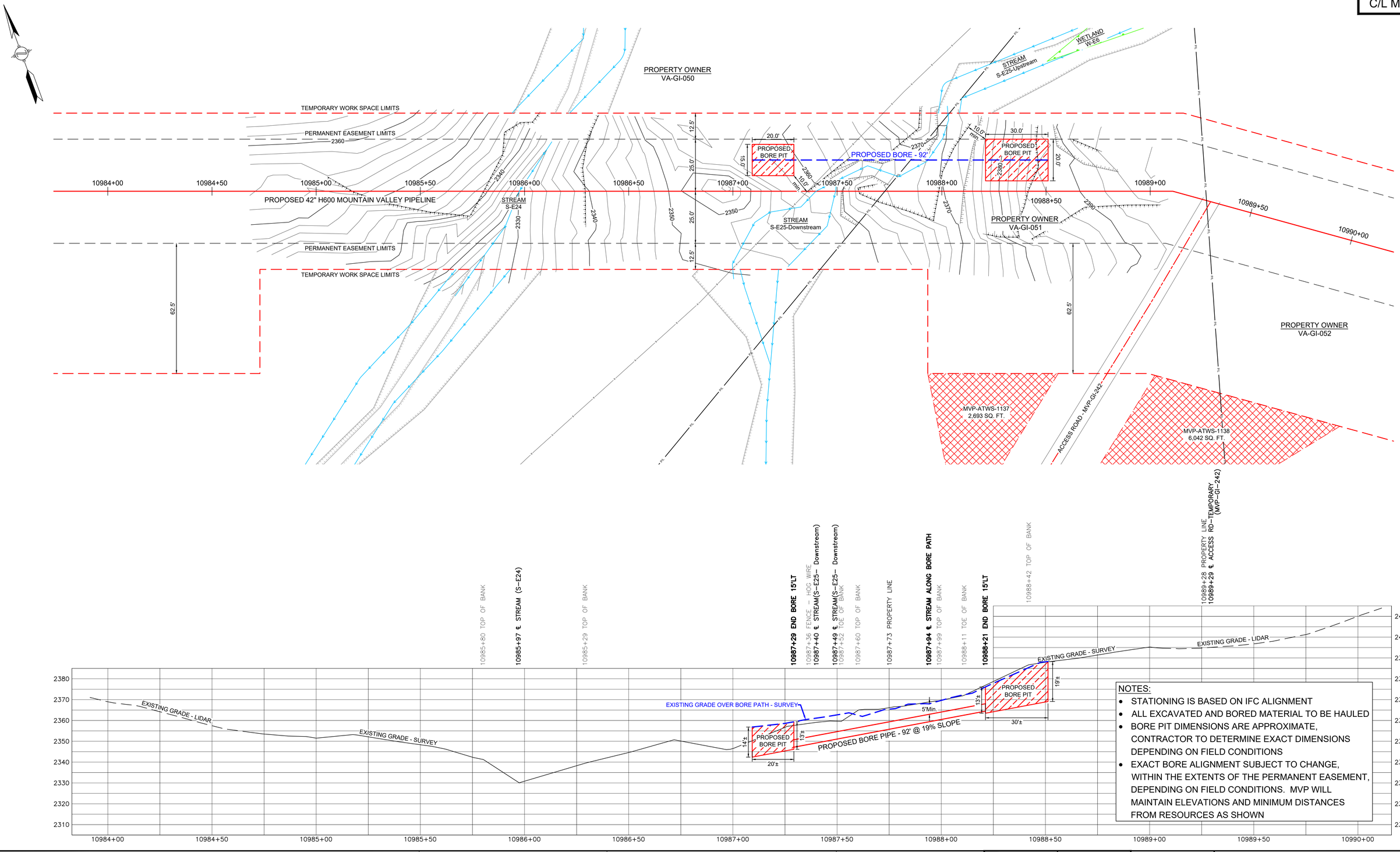
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-039
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/10/2020 4:02 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10925+00 TO 10931+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 207.9



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-13	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	06/01/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/02/21	ISSUED FOR VARIANCE REQUEST

HOLLAND ENGINEERING
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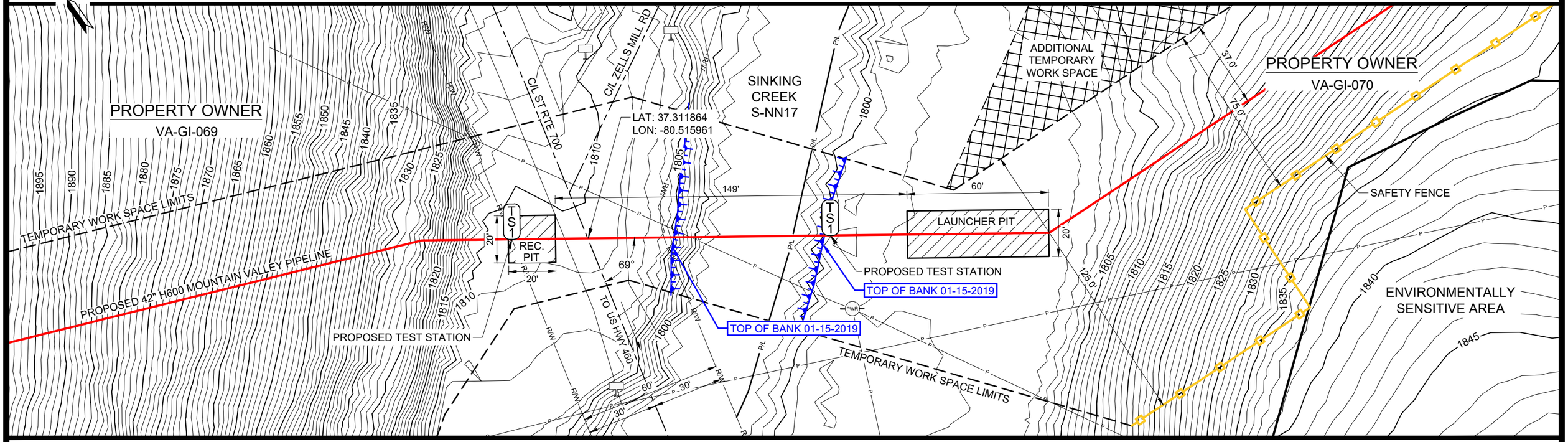
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-020
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/2/2021 9:54 AM	

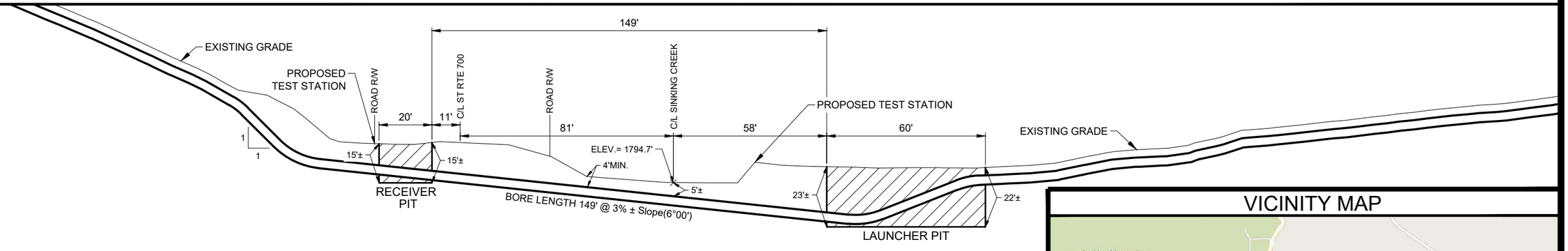
Mountain Valley PIPELINE

PLAN & PROFILE
STATION 10984+00 TO 10990+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

PLAN VIEW OF PROPOSED 42" H600 MOUNTAIN VALLEY PIPELINE CROSSING STATE ROUTE 700)MOUNTAIN LAKE ROAD) & SINKING CREEK @ MP 211.15 (CONVENTIONAL BORE METHOD - UNCASED)



PIPELINE CROSSING PROFILE



PROPOSED 42" STEEL PIPE INSTALLED BY CONVENTIONAL BORE METHOD - UNCASED

VICINITY MAP

DRAWING NOT TO SCALE

DRAWN BY: HEI(DRF)	DRAWING DATE: 06/11/2018	ALIGN. SHEET: PA-GIVA-H600-16
DRAWING SCALE: H: 1" = 40' - V: 1" = 40'	REVISION NO: 4 - 06-02-2020 ADJUSTED BORE SLOPE	DRAWING NO: RXP-GIVA-H600-10

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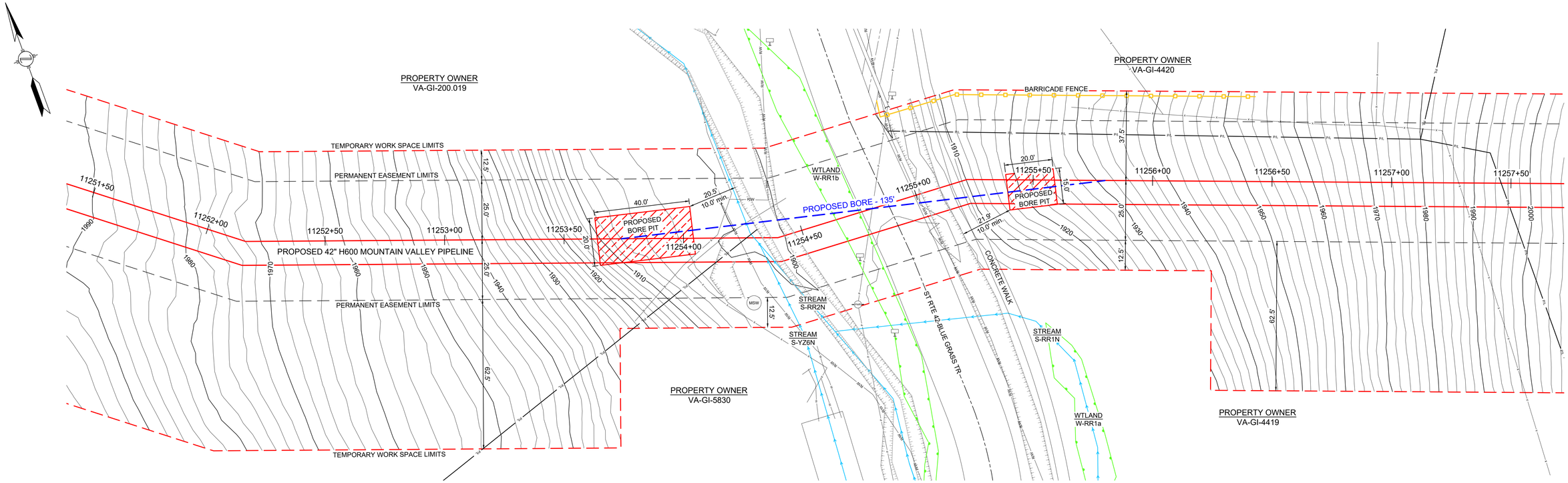
PREPARED FOR:

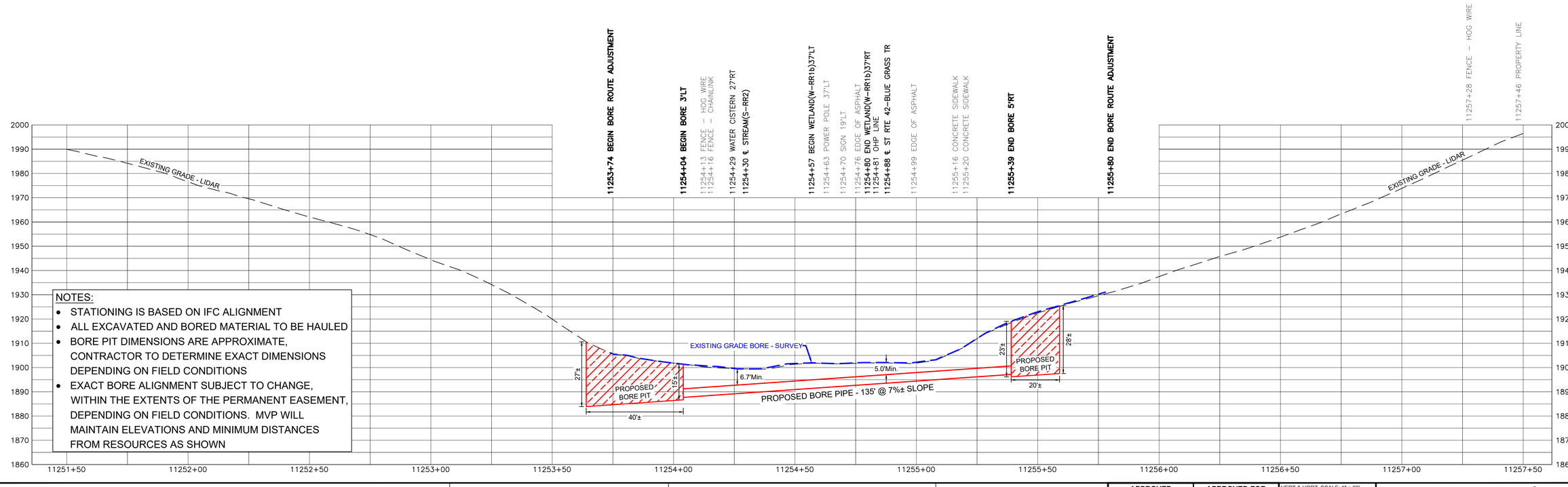
Mountain Valley PIPELINE

LOCATION AND NOTES

1. Location is on State Route 700 (Mountain Lake Road) approximately 0.34 mile(s) North of the junction with US HWY 460 (ST HWY 42), Pembroke Precinct, Giles County, Virginia.
2. Pipeline crossing was flagged with yellow pin flag.
3. Pipeline to have 3' min cover except where noted.
4. The method of installation is as follows:
   New 42" steel pipe installed by conventional bore method.
5. The method of repair or replacement is as follows:
   New 42" steel pipe installed by conventional bore method.
   Existing pipe to be filled with concrete and the ends capped.
6. Pipeline will be cathodically protected utilizing an impressed current system.

C/L MP 212.96





NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-GIVA-H600-17	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/15/20	PRELIMINARY FOR REVIEW
1	HEI	06/09/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	11/17/20	TRANSFERRED DRAWING TO MVP
3	HEI	01/15/21	REVISED MINIMUM(Min.) DEPTH TO MATCH SCOUR REQUIREMENTS

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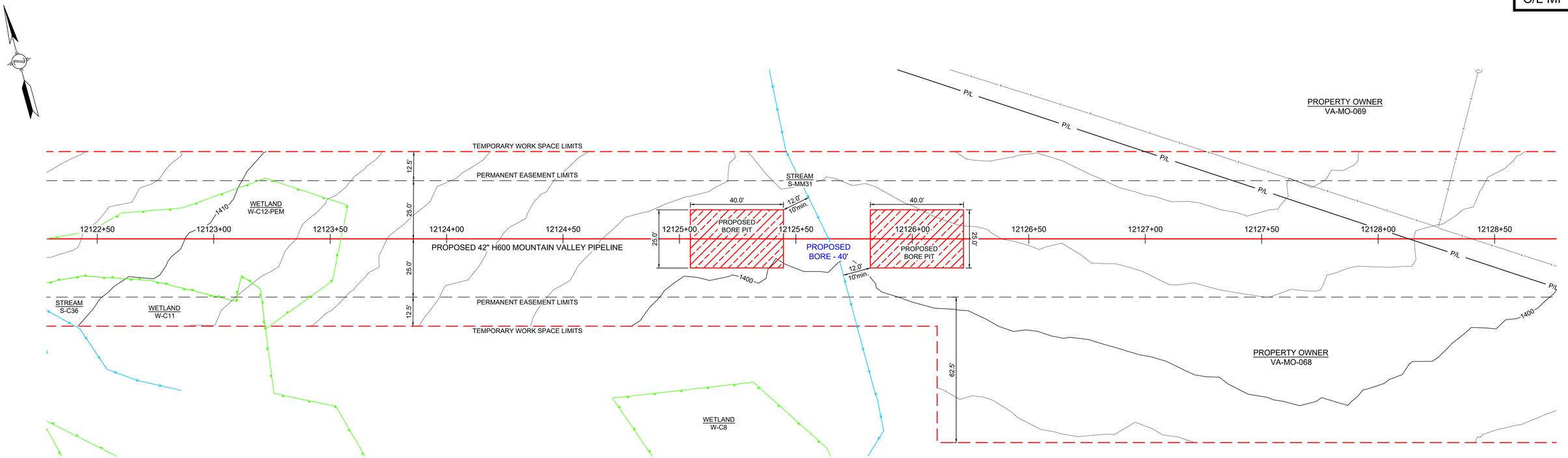
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

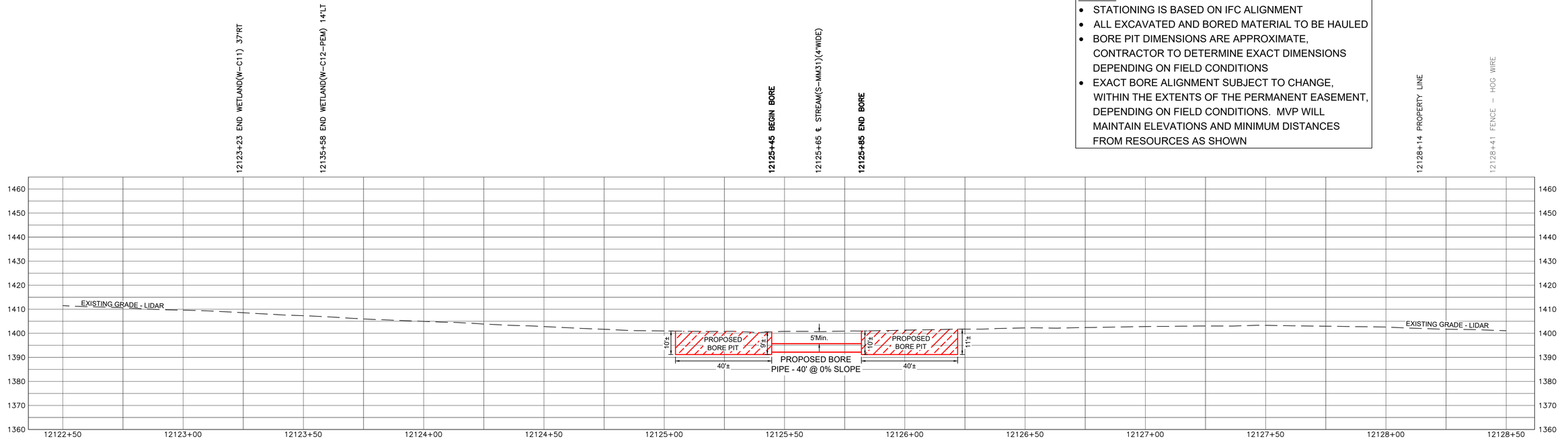
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/13/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-108
SHEET 1 OF 1	REV. 3
DATE OF PLOT: 1/15/2021 2:13 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12251+50 TO 11257+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
GILES COUNTY, VIRGINIA

C/L MP 229.47





NOTES:

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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
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- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-MOVA-H600-13	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/04/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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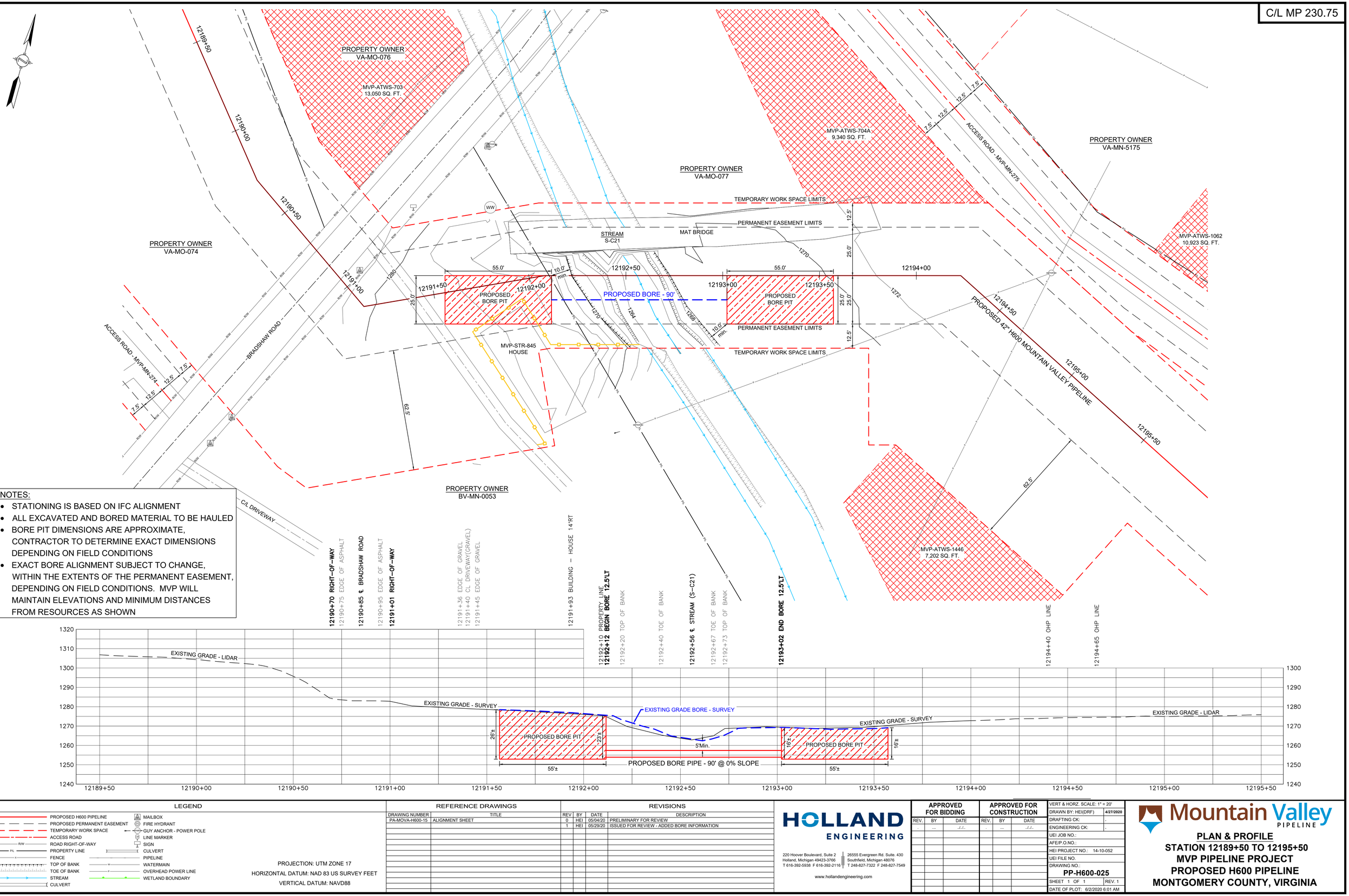
REV.	BY	DATE	REV.	BY	DATE
-	---	../../..	-	---	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-124
SHEET 1 OF 1	REV. 0
DATE OF PLOT:	6/4/2020 4:27 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12122+50 TO 12128+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
MONTGOMERY COUNTY, VIRGINIA

C/L MP 230.75



NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-MOVA-H600-15	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	05/29/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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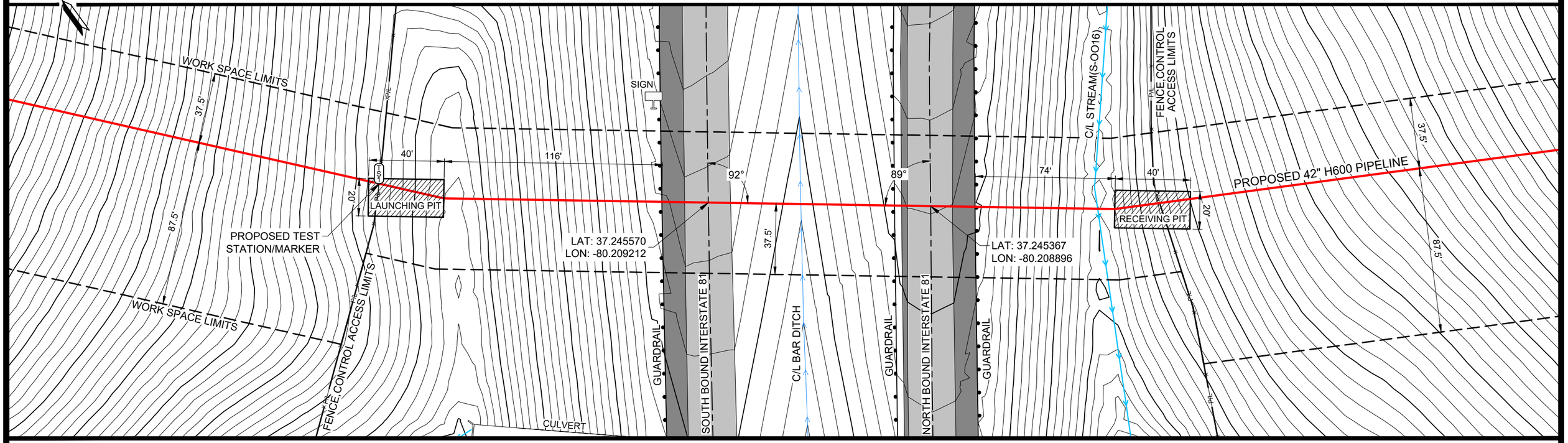
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
	...	../../..		...	../../..

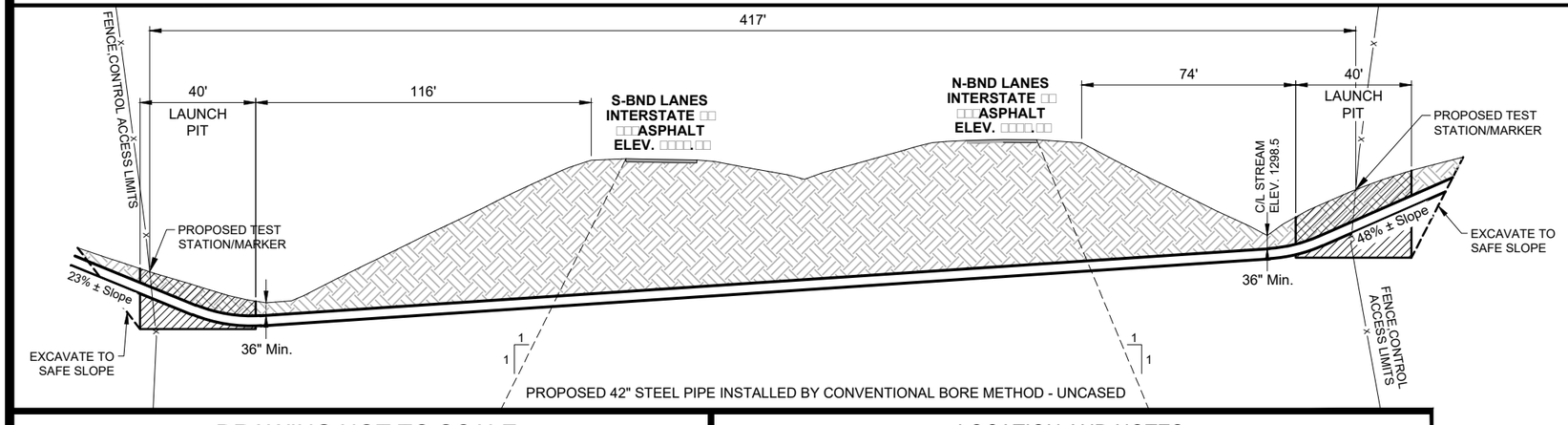
VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	4/27/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-025
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	6/2/2020 6:01 AM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12189+50 TO 12195+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
MONTGOMERY COUNTY, VIRGINIA

PLAN VIEW OF PROPOSED 42" H600 MOUNTAIN VALLEY PIPELINE CROSSING INTERSTATE 81 (CONVENTIONAL BORE METHOD)

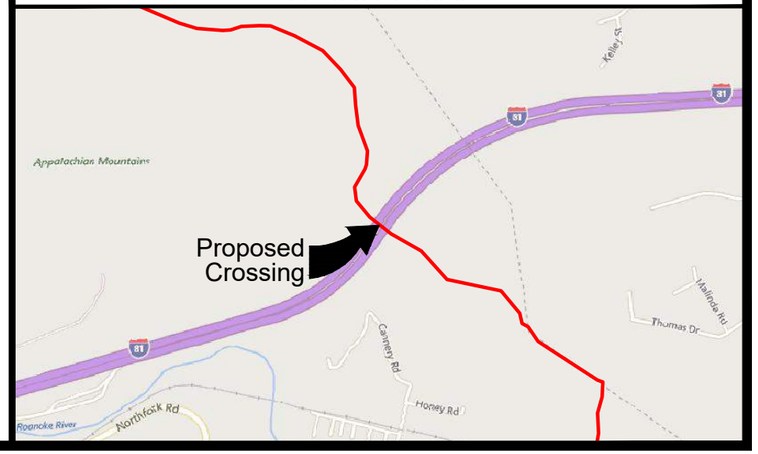




CONSTRUCTION NOTES:

- NO ACCESS IS PERMITTED FROM INTERSTATE 81.
- ALL ACCESS WILL BE FROM THE PIPELINE CONSTRUCTION RIGHT-OF-WAY.
- BEFORE INSTALLATION/BORING, ALIGNMENT MAY BE SLIGHTLY ADJUSTED TO AVOID GUARD RAIL POSTS.

VICINITY MAP



DRAWING NOT TO SCALE

DRAWN BY: HEI(DRF)	DRAWING DATE: 05/10/2017	ALIGN. SHEET: PA-MOVA-H600-18
DRAWING SCALE: H: 1" = 50' - V: 1" = 50'	APPROVED BY:	DRAWING NO: RXP-MOVA-H600-01

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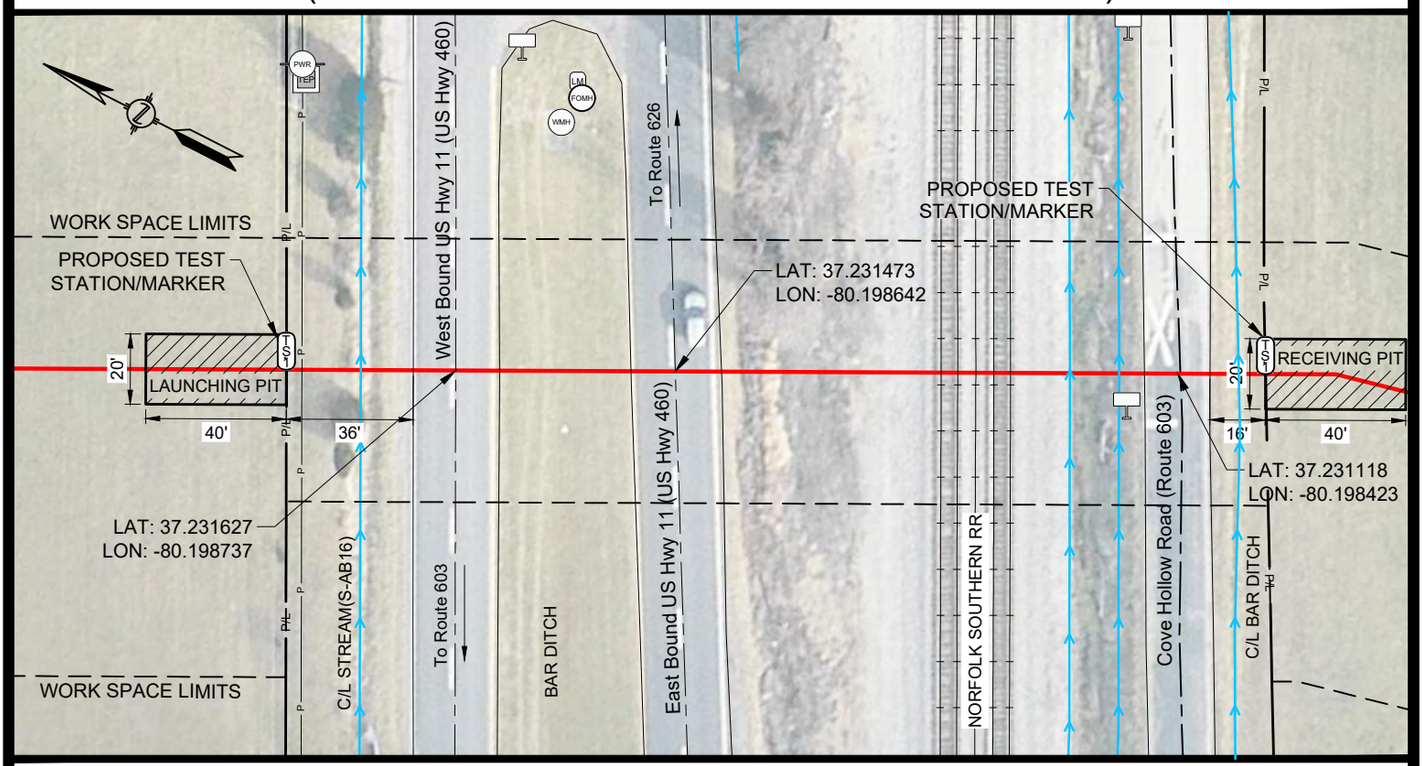
PREPARED FOR:

Mountain Valley PIPELINE

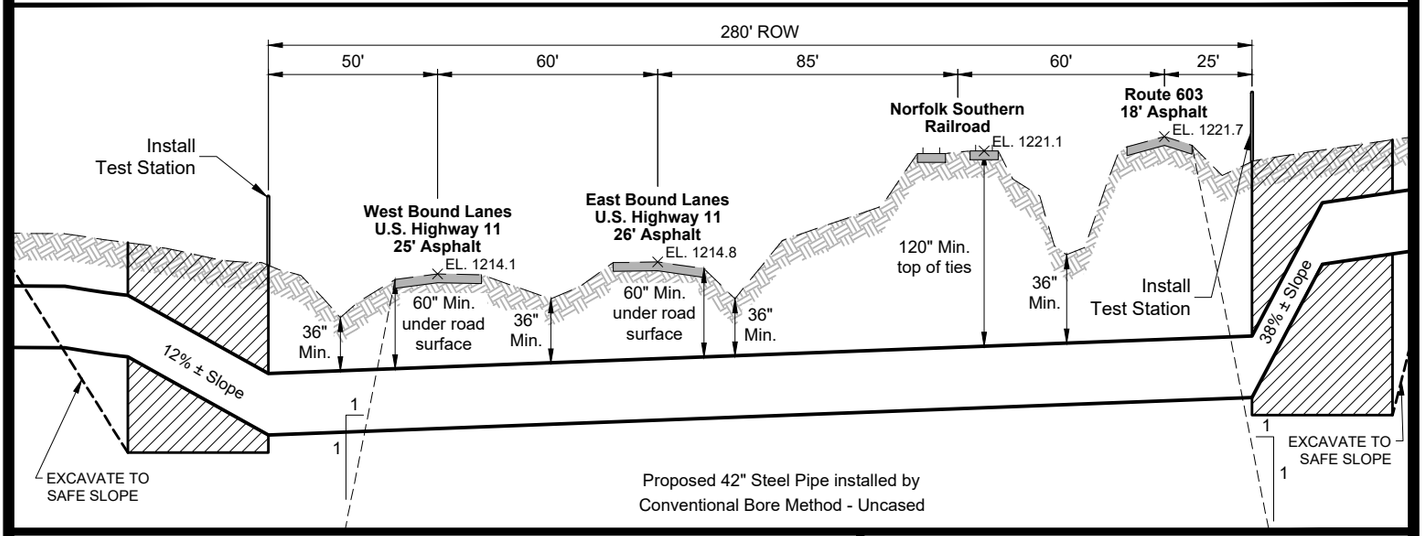
LOCATION AND NOTES

1. Location is on Interstate 81 approximately 1.87 mile(s) Northeast of the junction with Route 603 (North Fork Rd), Precincts C-1 & C-3, Montgomery County, Virginia.
2. Pipeline crossing was flagged with yellow pin flag.
3. Pipeline to have 3' min cover except where noted.
4. The method of installation is as follows:
   New 42" steel pipe installed by conventional bore, uncased
5. The method of repair or replacement is as follows:
   New uncased bore. Existing pipe to be filled with concrete and the ends capped.

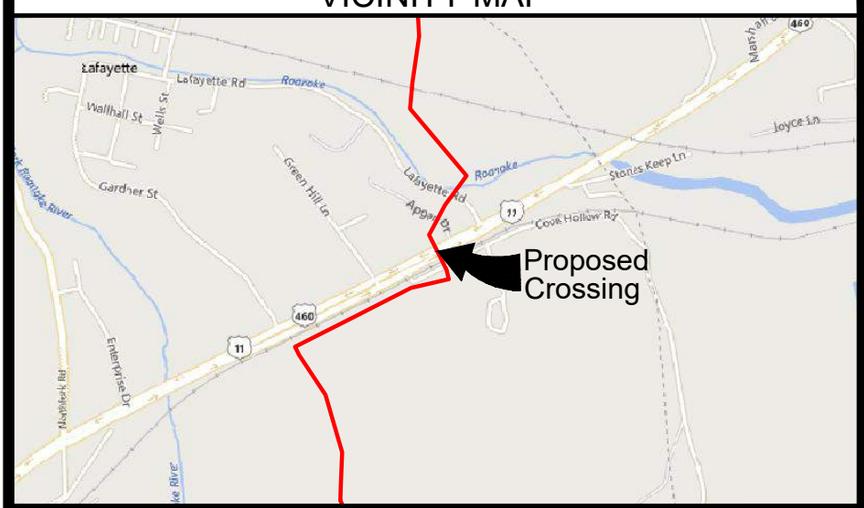
PLAN VIEW OF PROPOSED 42" H600 MOUNTAIN VALLEY PIPELINE CROSSING U.S. HIGHWAY 11 (ROANOKE ROAD) (CONVENTIONAL BORE METHOD - UNCASED)



PIPELINE CROSSING PROFILE



VICINITY MAP



Location and Notes

1. Location is on U.S. Highway 11 (U.S. Highway 460 / Roanoke Road) approximately 0.10 mile(s) Southwest of the junction with Route 626 (Lafayette Rd), Precinct C-1, Montgomery County, Virginia.
2. Pipeline crossing was flagged with yellow pin flag.
3. Ditch to be backfilled with flowable backfill material
4. Pipeline to have 3' min cover except where noted.
5. The method of installation is as follows:
   New 42" steel pipe installed by conventional bore, uncased
6. The method of repair or replacement is as follows:
   New uncased bore. Existing pipe to be filled with concrete and the ends capped.

DRAWING NOT TO SCALE

DRAWN BY: HEI(DRF)	DRAWING DATE: 12/28/2016	ALIGN. SHEET: PA-MOVA-H600-19
DRAWING SCALE: H: 1" = 50' - V: 1" = 10'	APPROVED BY:	DRAWING NO: RXP-MOVA-H600-02

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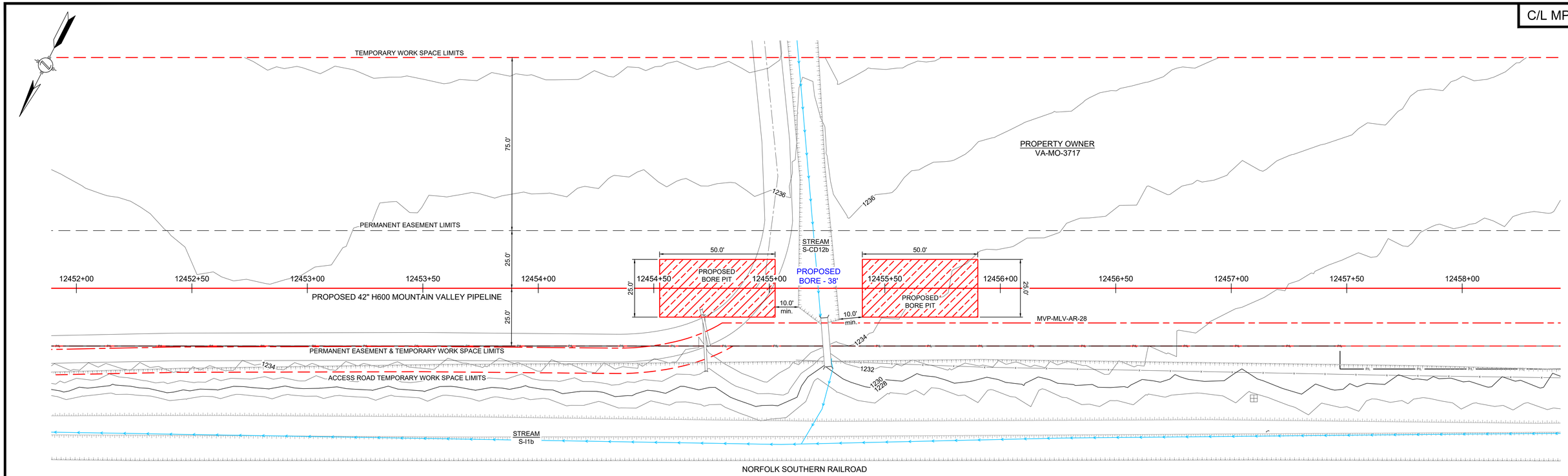
PREPARED FOR:

Mountain Valley PIPELINE

C/L MP 235.80



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
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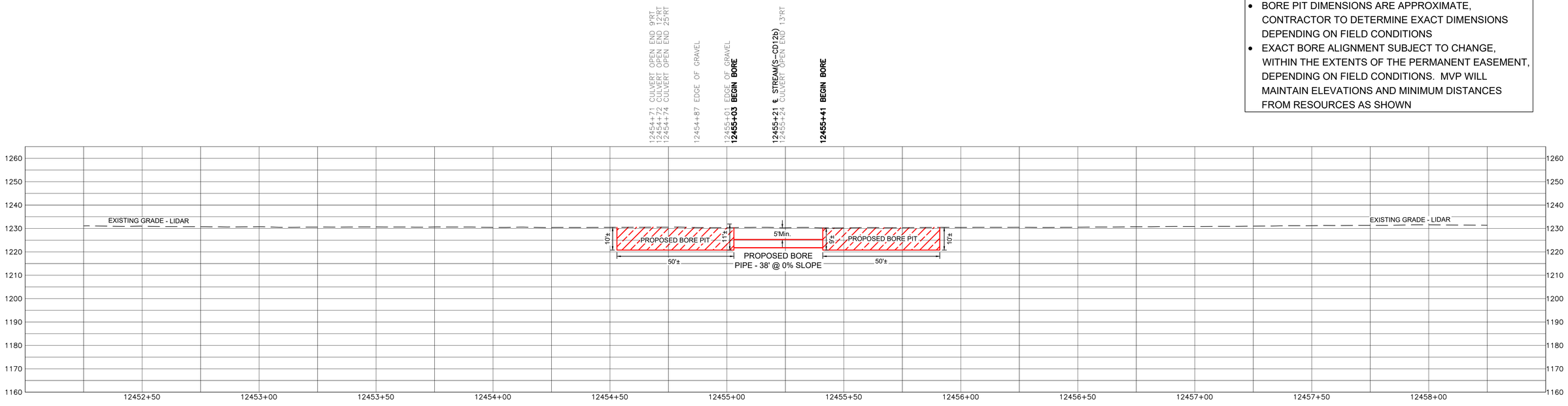
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-MOVA-H600-20	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/04/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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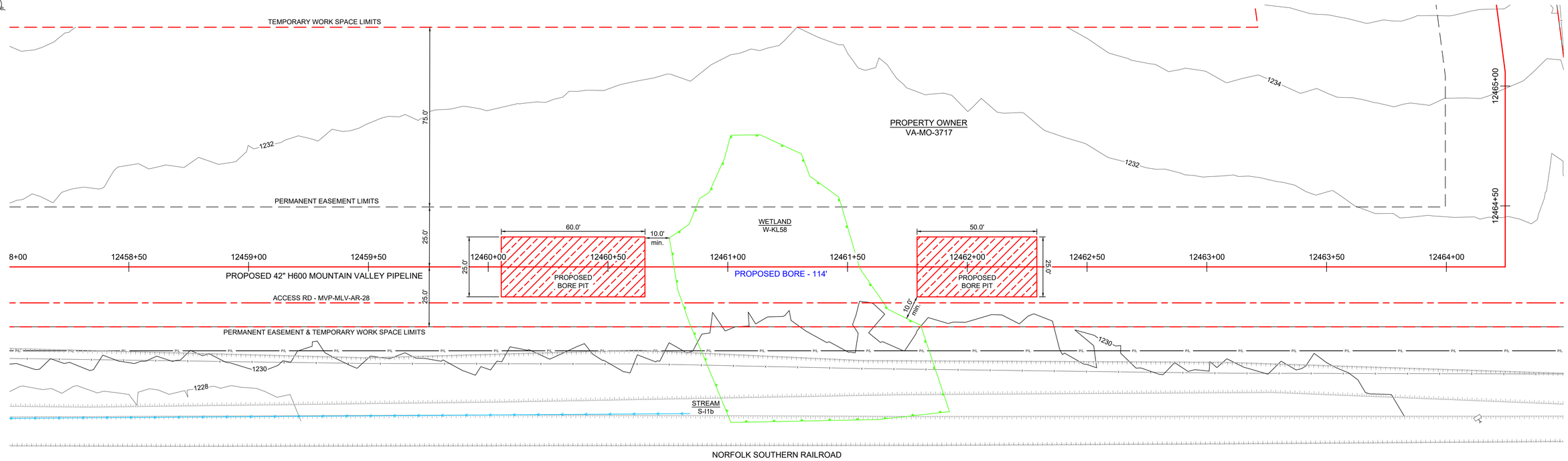
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

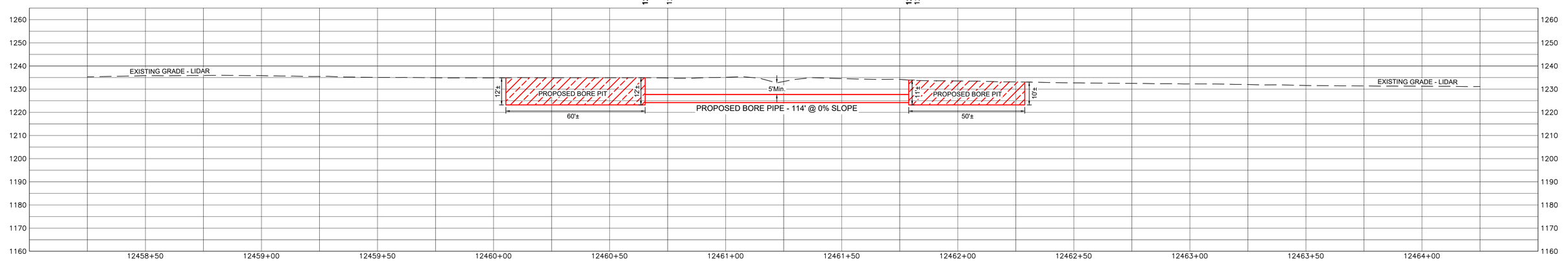
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-127
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/4/2020 11:22 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12452+25 TO 12458+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
MONTGOMERY COUNTY, VIRGINIA

C/L MP 235.90





NOTES:

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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-MOVA-H600-20	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/04/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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26555 Evergreen Rd. Suite 430
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T 248-827-7322 F 248-827-7549

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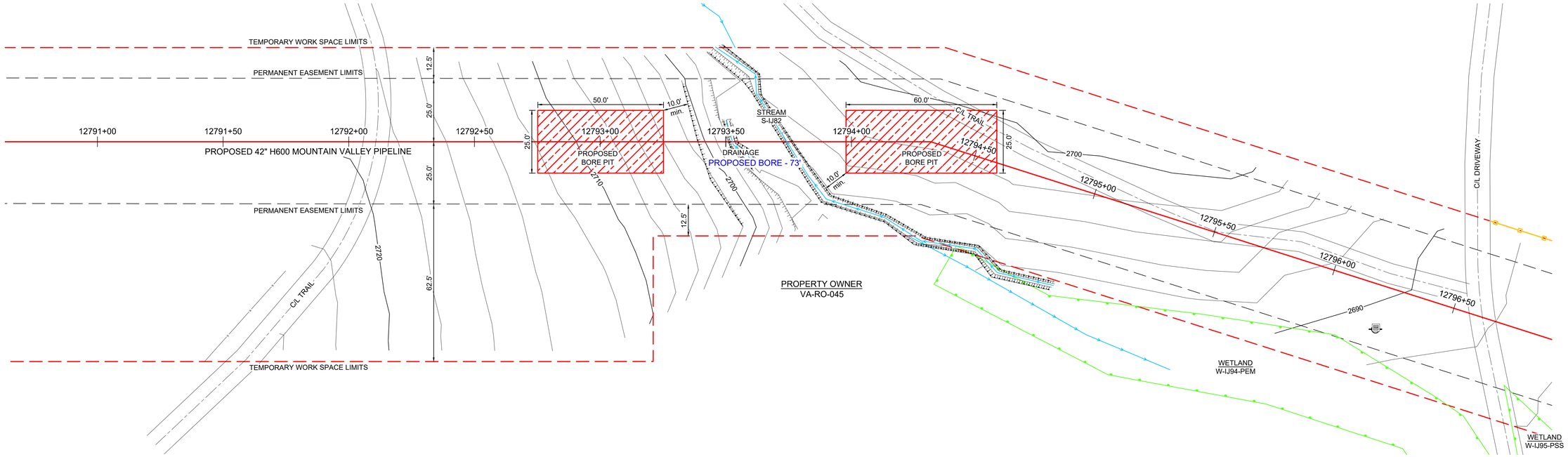
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-128
SHEET 1 OF 1	REV. 0
DATE OF PLOT:	6/4/2020 11:41 AM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12458+25 TO 12464+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
MONTGOMERY COUNTY, VIRGINIA



NOTES:

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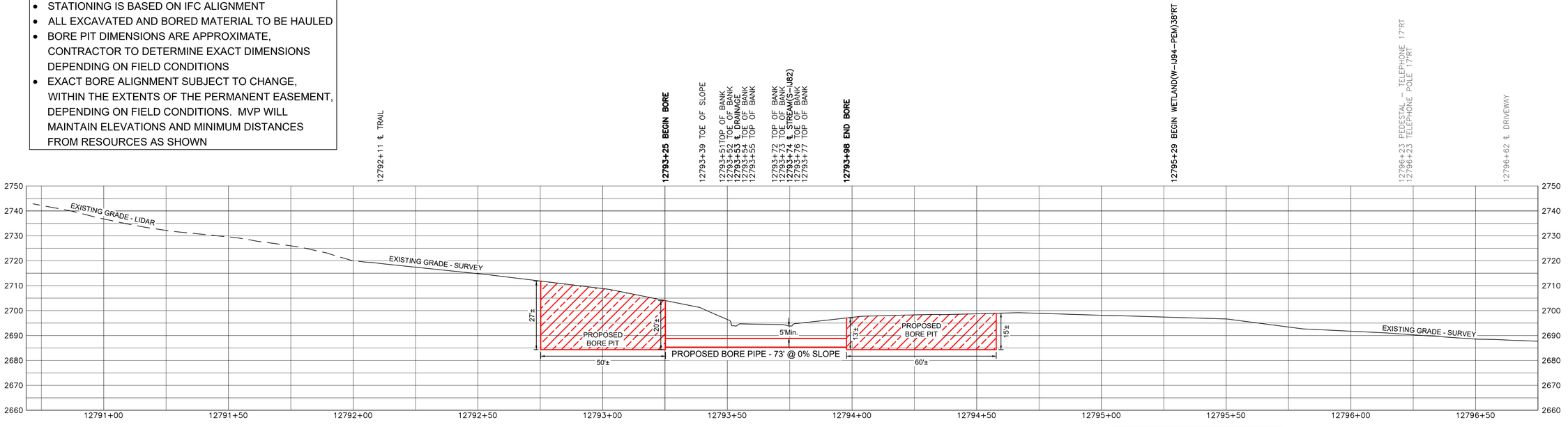

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
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- FIRE HYDRANT
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- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-05	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/15/20	PRELIMINARY FOR REVIEW
1	HEI	07/14/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
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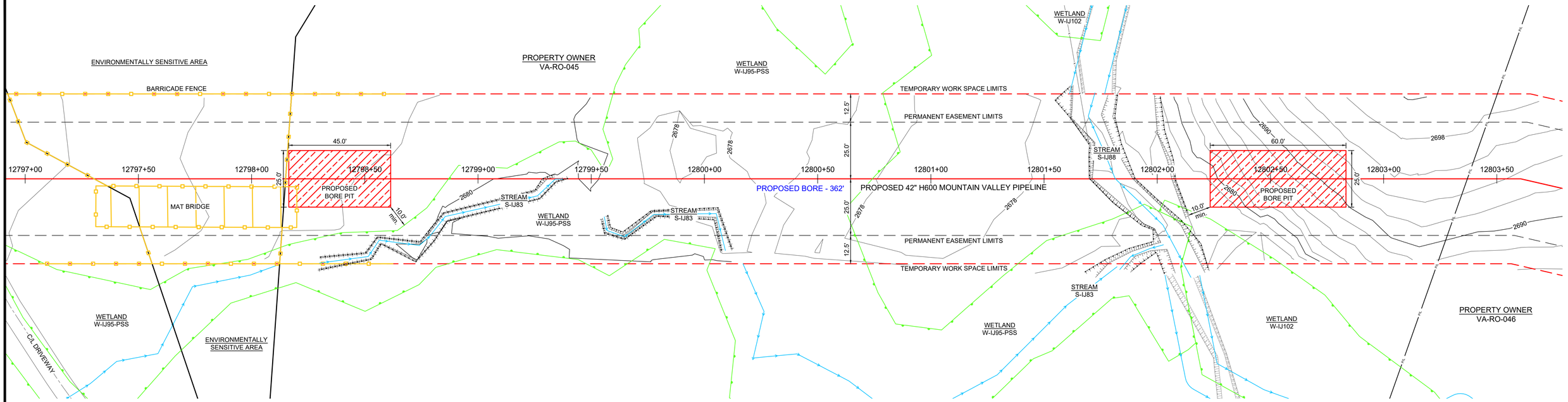
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

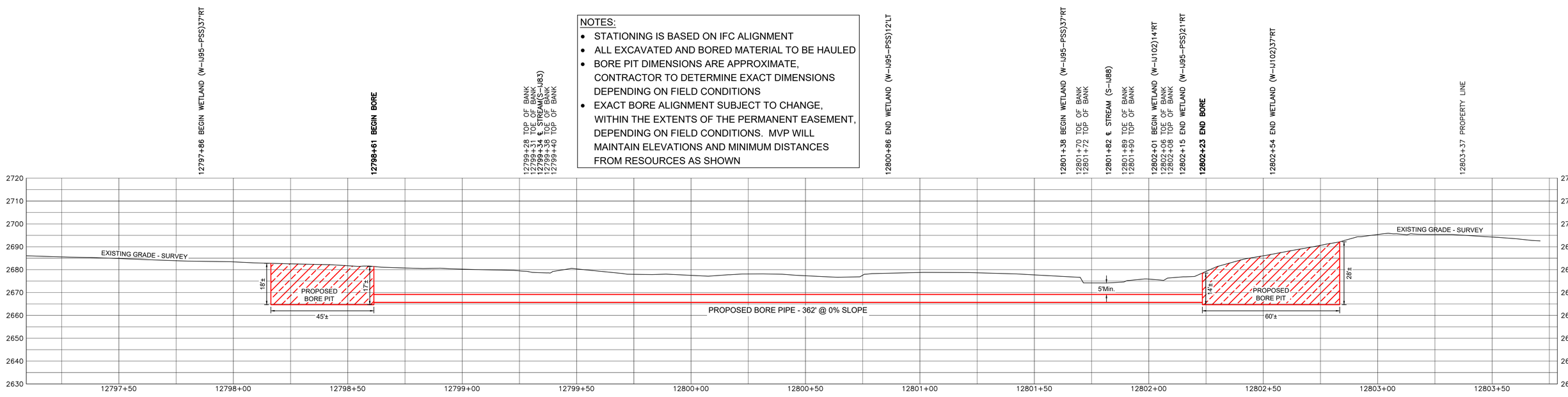
VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/15/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-052
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	7/14/2020 2:20 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12790+75 TO 12796+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 242.25





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- PROPOSED PERMANENT EASEMENT
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- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-05	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/15/20	PRELIMINARY FOR REVIEW
1	HEI	07/14/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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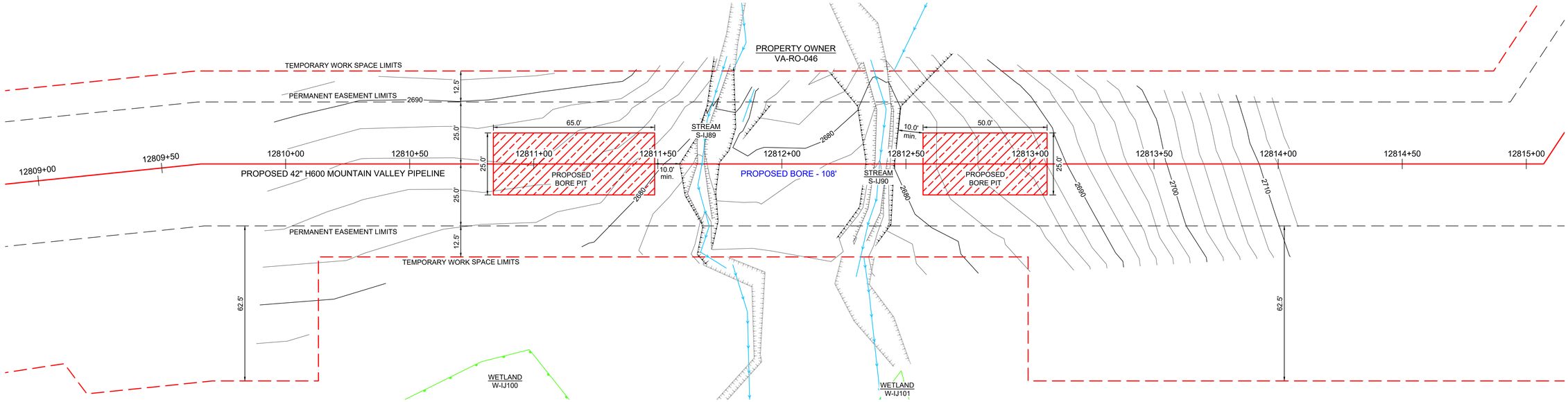
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	-/-/-	-	....	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/15/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	
PP-H600-053	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 7/14/2020 1:37 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12797+25 TO 12803+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 242.46



NOTES:

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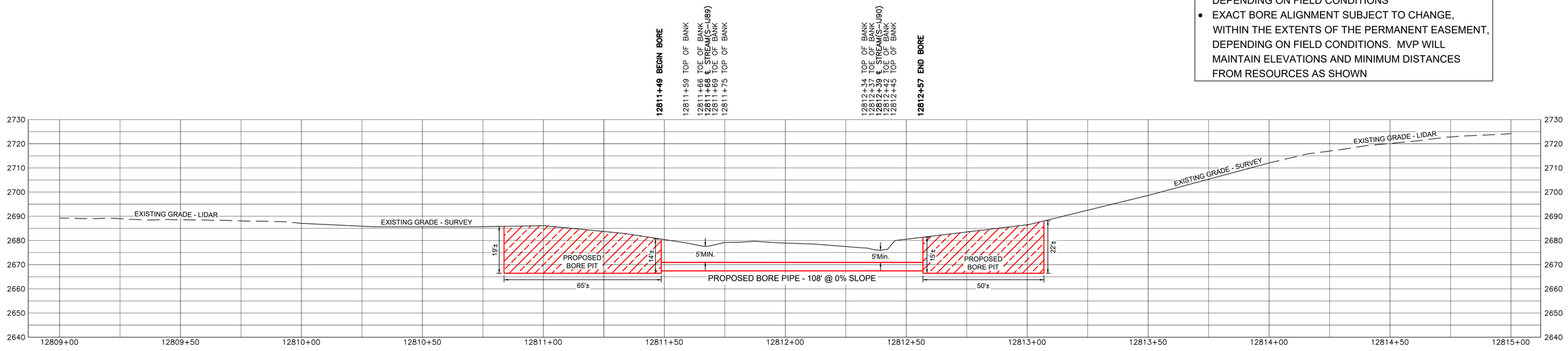

LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
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- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-05	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/27/20	PRELIMINARY FOR REVIEW
1	HEI	07/13/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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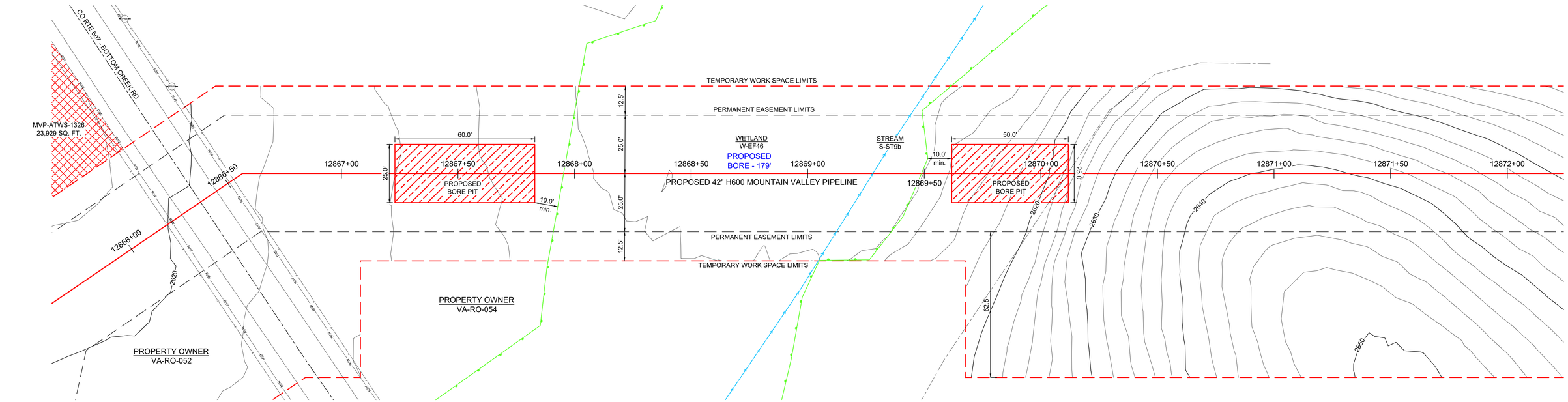
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

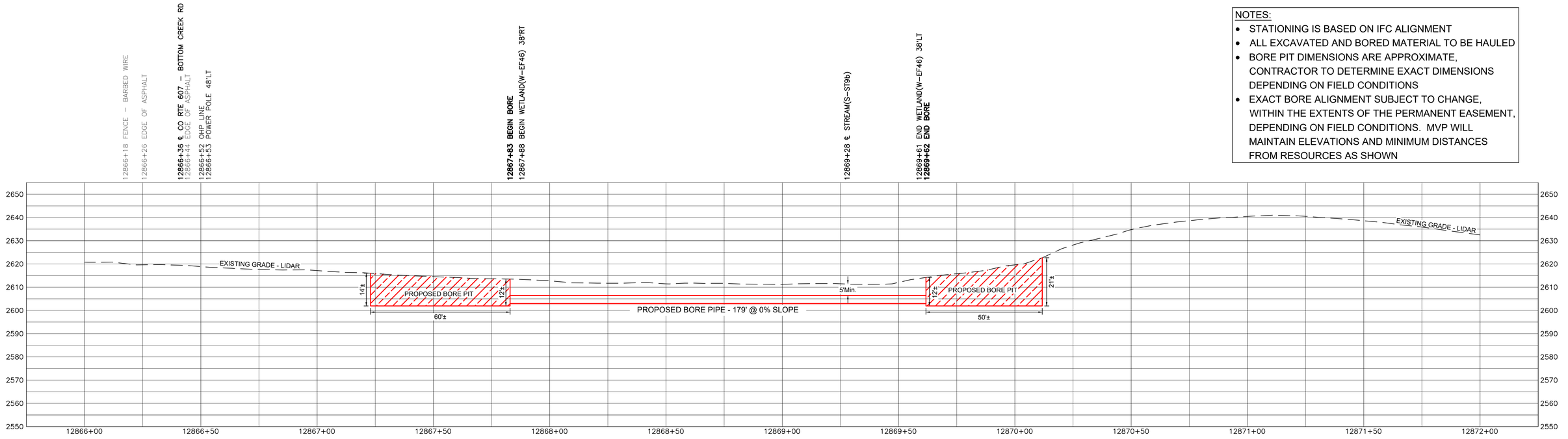
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/27/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-054	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 7/13/2020 11:12 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12809+00 TO 12815+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 243.55





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LEGEND

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- PROPOSED PERMANENT EASEMENT
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- MAILBOX
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- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-06	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/04/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
T 248-827-7322 F 248-827-7549

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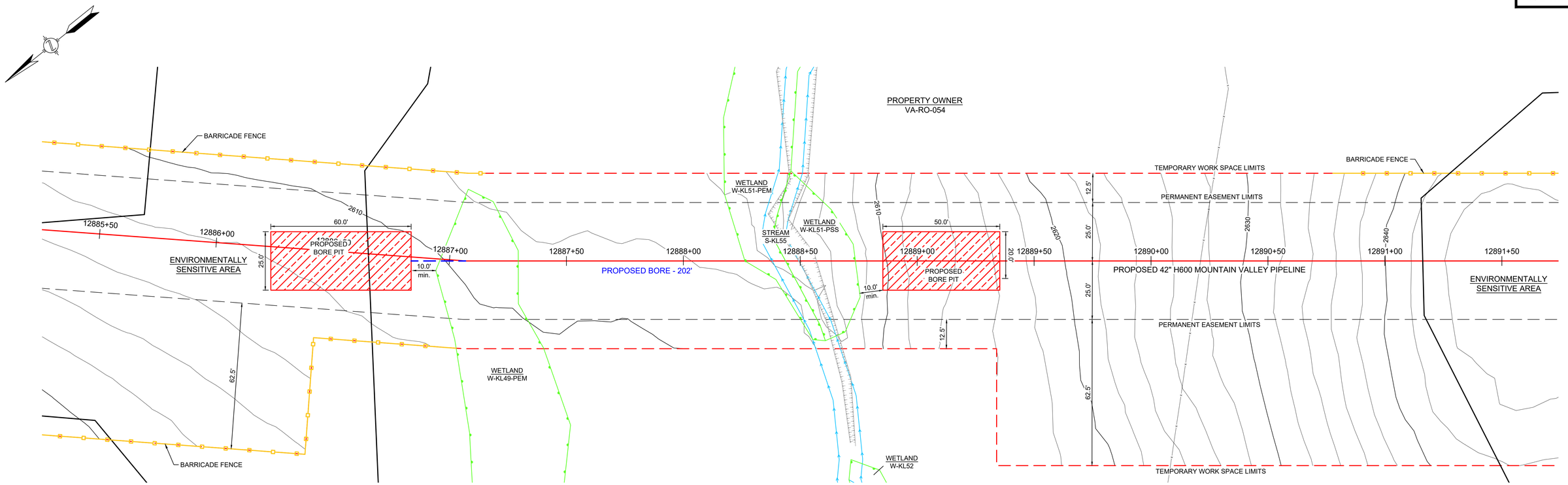
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-130
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/4/2020 1:17 PM	

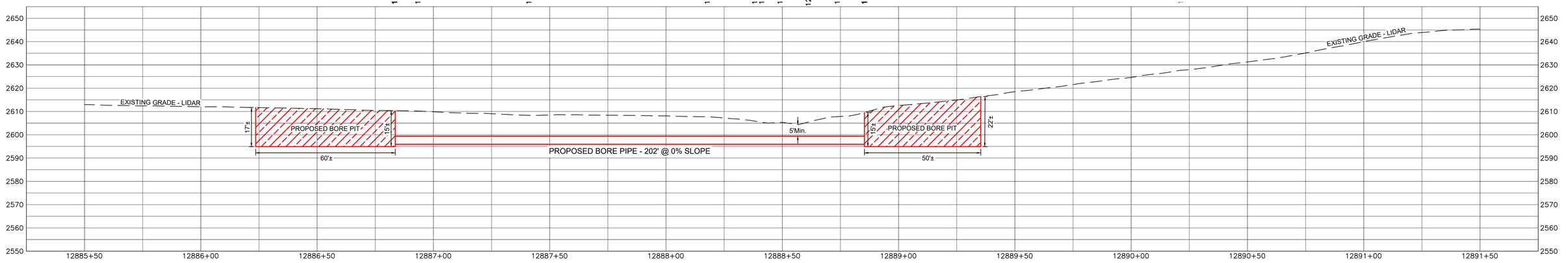
Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12866+00 TO 12872+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 243.91



12886+84 BEGIN BORE
12886+94 BEGIN WETLAND(W-KL49-PEM)5'RT
12887+40 END WETLAND(W-KL49-PEM)37'RT
12888+17 BEGIN WETLAND(W-KL51-PEM)29'LT
12888+38 BEGIN WETLAND(W-KL51-PSS)10'LT
12888+38 STREAM BANK(S-KL55)
12888+49 STREAM BANK(S-KL55)
12888+60 END WETLAND(W-KL51-PEM)34'RT
12888+75 END WETLAND(W-KL51-PSS)15'RT
12888+86 END BORE
12890+21 FENCE



NOTES:
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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
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- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-07	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/04/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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VERT & HORZ. SCALE: 1" = 20'	
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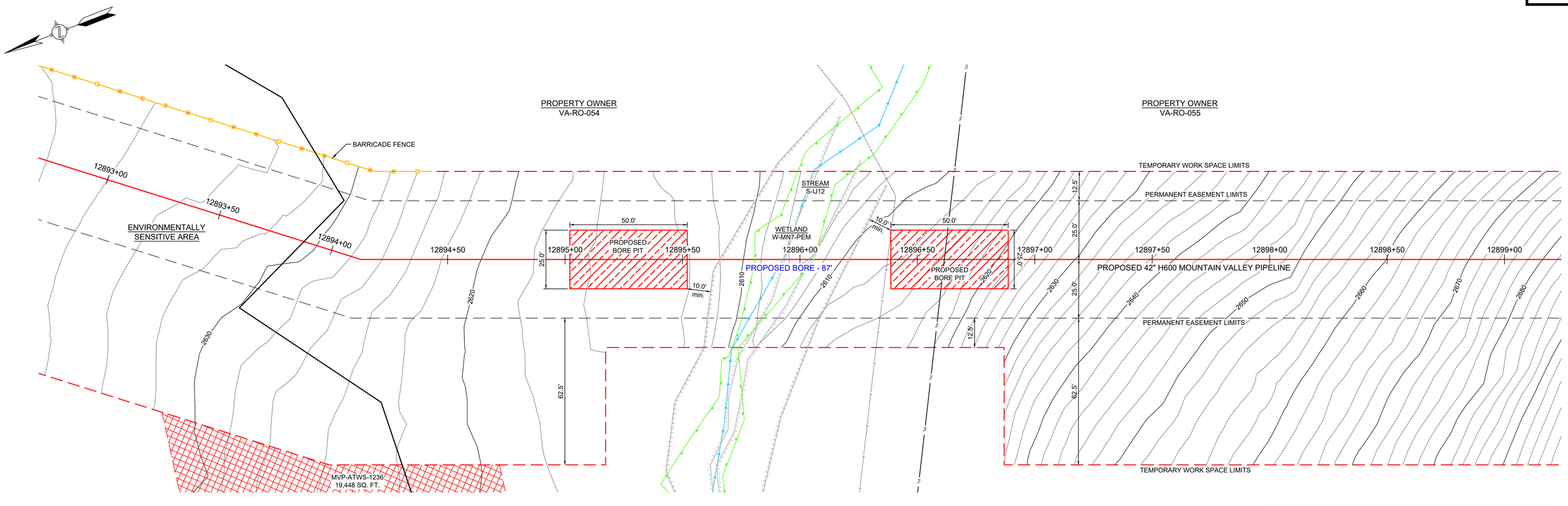
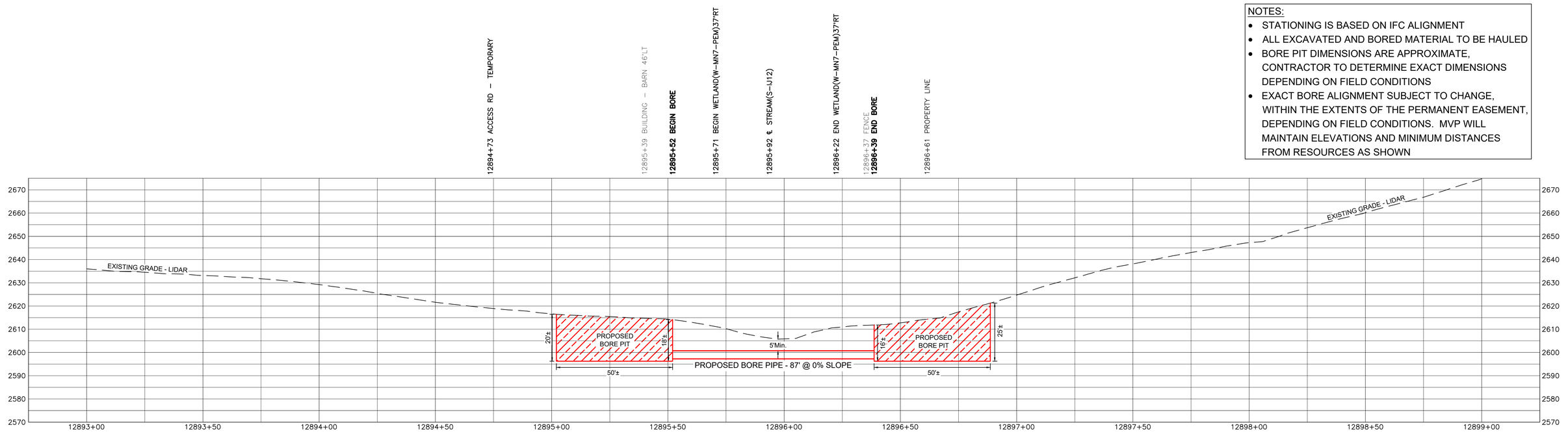
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-131
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/4/2020 1:36 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12885+50 TO 12891+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 244.05





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LEGEND

- PROPOSED H600 PIPELINE
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PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-07	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
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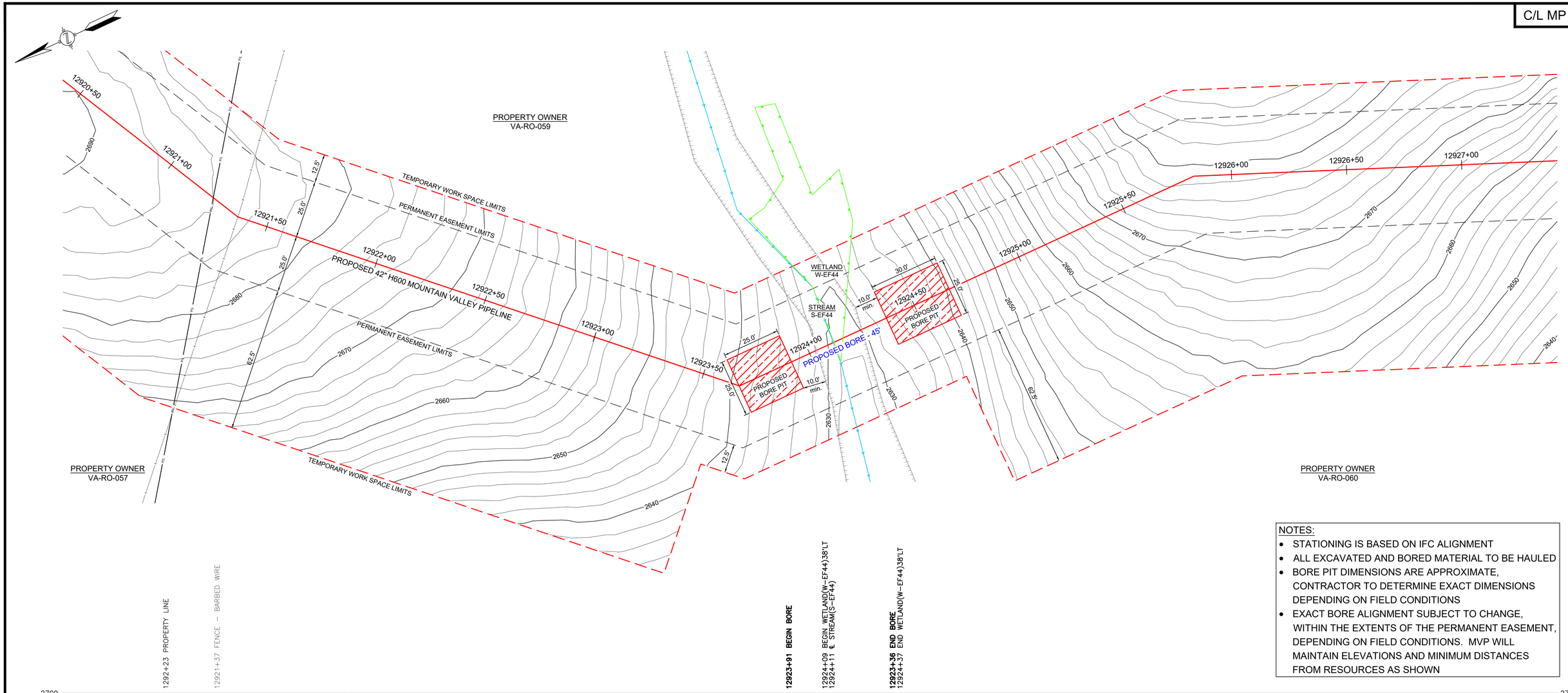
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	....	../../..	.	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-132
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/4/2020 1:53 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12893+00 TO 12899+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 244.59



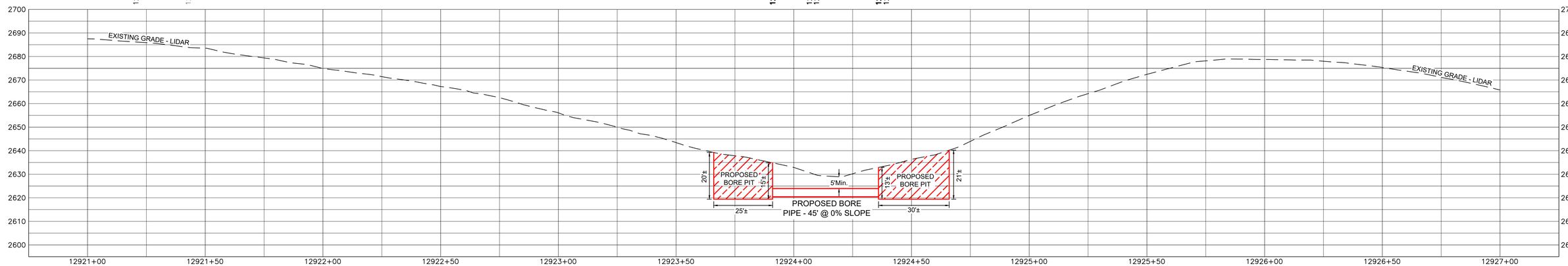
1292+23 PROPERTY LINE

12921+37 FENCE – BARBED WIRE

12923+91 BEGIN BORE

12924+09 BEGIN WETLAND(W-EF44)38'LT
12924+11 ℄ STREAM(S-EF44)

12923+35 END BORE
12924+37 END WETLAND(W-EF44)38'LT



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- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-07	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/04/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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

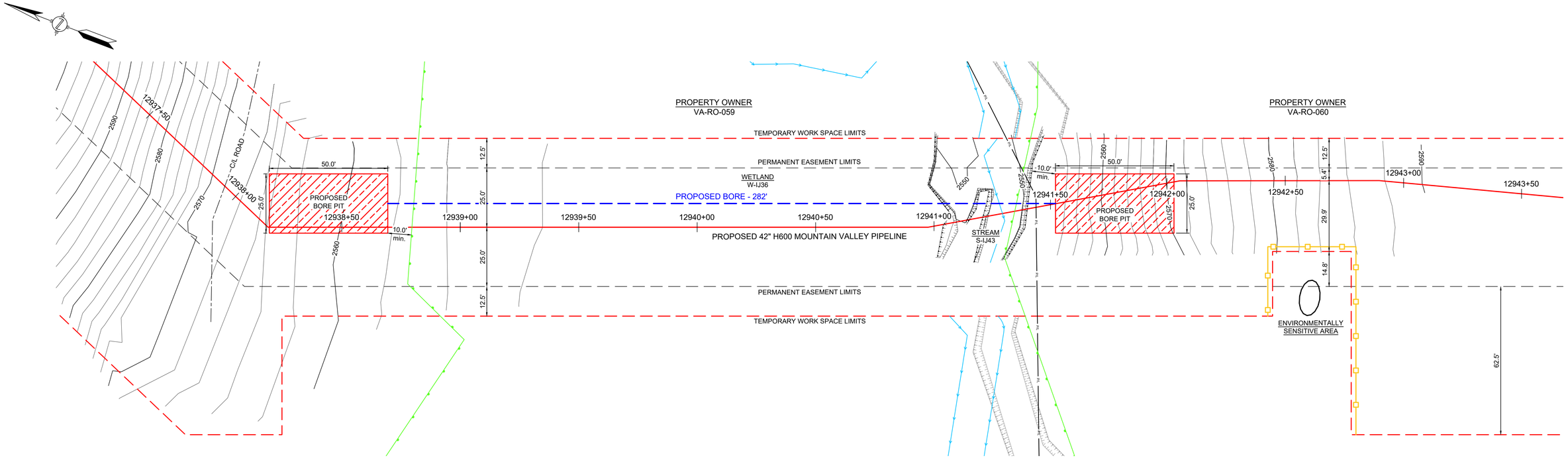
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-133
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/4/2020 2:19 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12921+00 TO 12927+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 244.91



NOTES:

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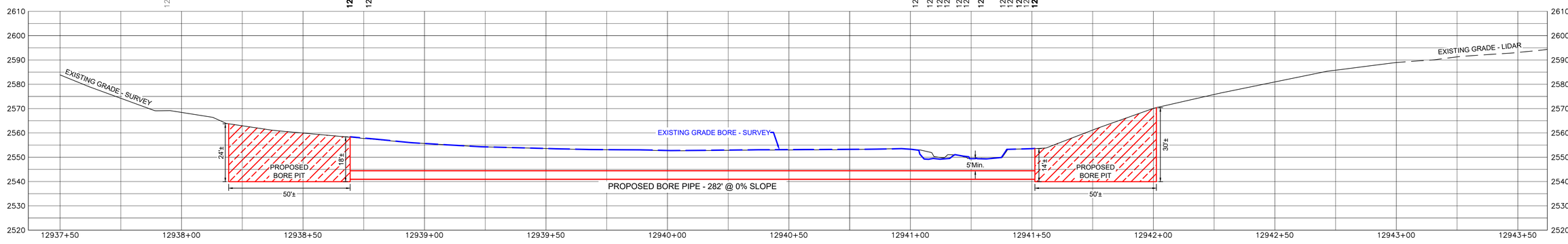
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-08	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/14/20	PRELIMINARY FOR REVIEW
1	HEI	07/14/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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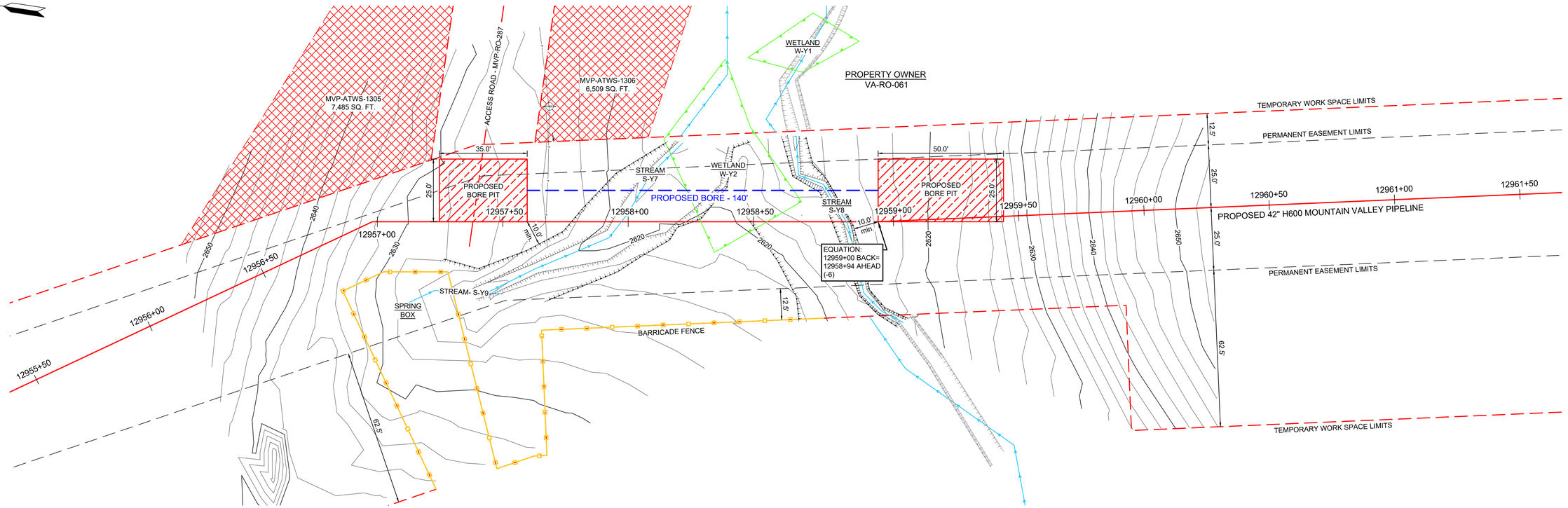
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/14/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-055
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 7/14/2020 2:18 PM	

Mountain Valley PIPELINE

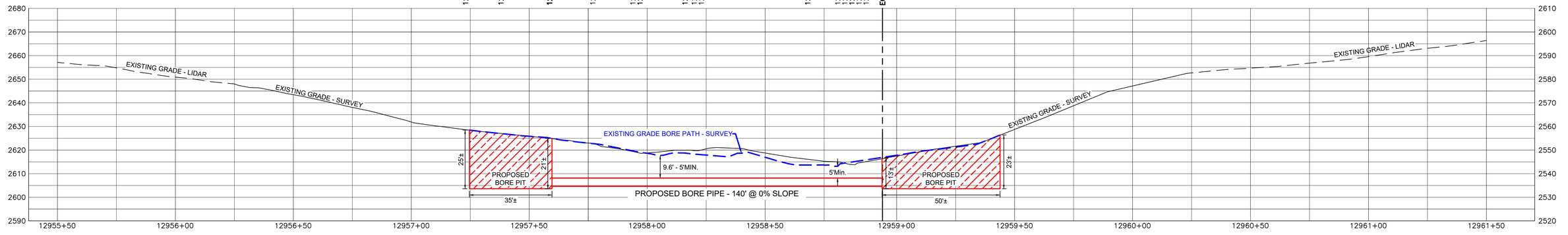
PLAN & PROFILE
STATION 12937+50 TO 12943+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 245.24



ACCESS ROAD - MVP-RO-287

12957+23 ℄ STREAM (S-Y9)27'RT
12957+38 ACCESS RD - TEMPORARY (MVP-RO-287)
12957+60 BEGIN BORE 12.5'LT
12957+77 TOP OF BANK
12957+94 TOE OF BANK
12957+97 ℄ STREAM(S-Y7)
12958+16 BEGIN WETLAND(W-Y2)37'LT
12958+20 TOE OF BANK
12958+26 TOP OF BANK
12958+69 END WETLAND(W-Y2)9'LT
12958+81 TOP OF BANK
12958+86 TOE OF BANK
12958+87 ℄ STREAM(S-Y8)
12958+88 TOE OF BANK
12958+89 TOP OF BANK
EQUATION: 12959+00 BACK = 12958+94 AHEAD, END BORE



NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-08	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/13/20	PRELIMINARY FOR REVIEW
1	HEI	07/13/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/02/22	ISSUED FOR VARIANCE REQUEST

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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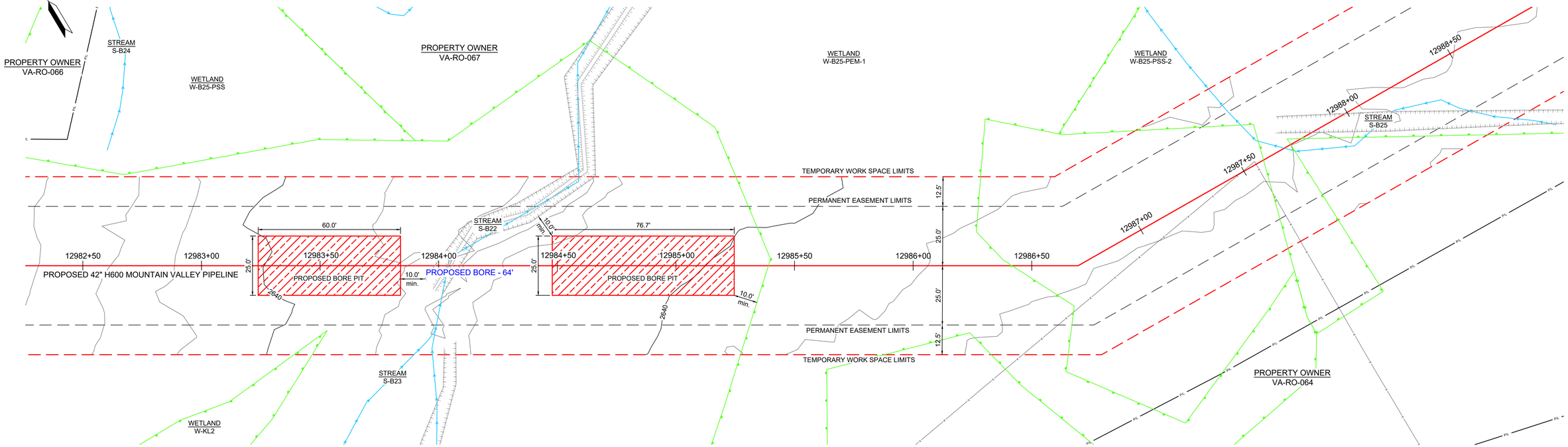
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/13/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-056
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/2/2021 10:00 AM	

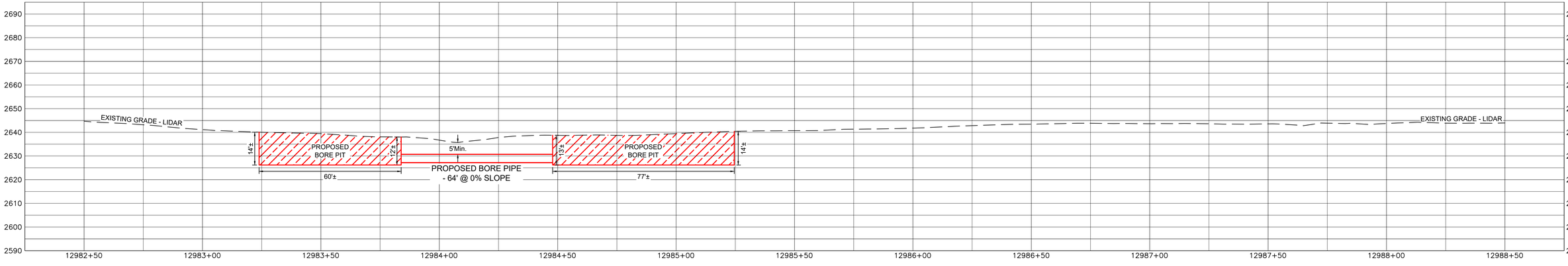
Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12955+50 TO 12961+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 245.72



12983+52 END WETLAND(W-KL2) 27'RT
12983+84 BEGIN BORE
12983+98 ℄ STREAM(S-B23) 27'RT
12984+03 ℄ STREAM(S-B22)
12984+48 END BORE
12984+73 FENCE POST 51'LT
12985+24 BEGIN WETLAND(W-B25-PEM-1) 37'LT
12986+30 FENCE POST 61'LT
12986+67 END WETLAND(W-B25-PEM-1) 17'RT
12987+18 BEGIN WETLAND(W-B25-PSS-2) 38'LT
12987+48 FENCE - BARBED WIRE
12987+55 FENCE - BARBED WIRE
12987+57 FENCE POST 6'LT
12987+69 ℄ STREAM(S-B25)



NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	10/03/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/16/21	ISSUED FOR VARIANCE

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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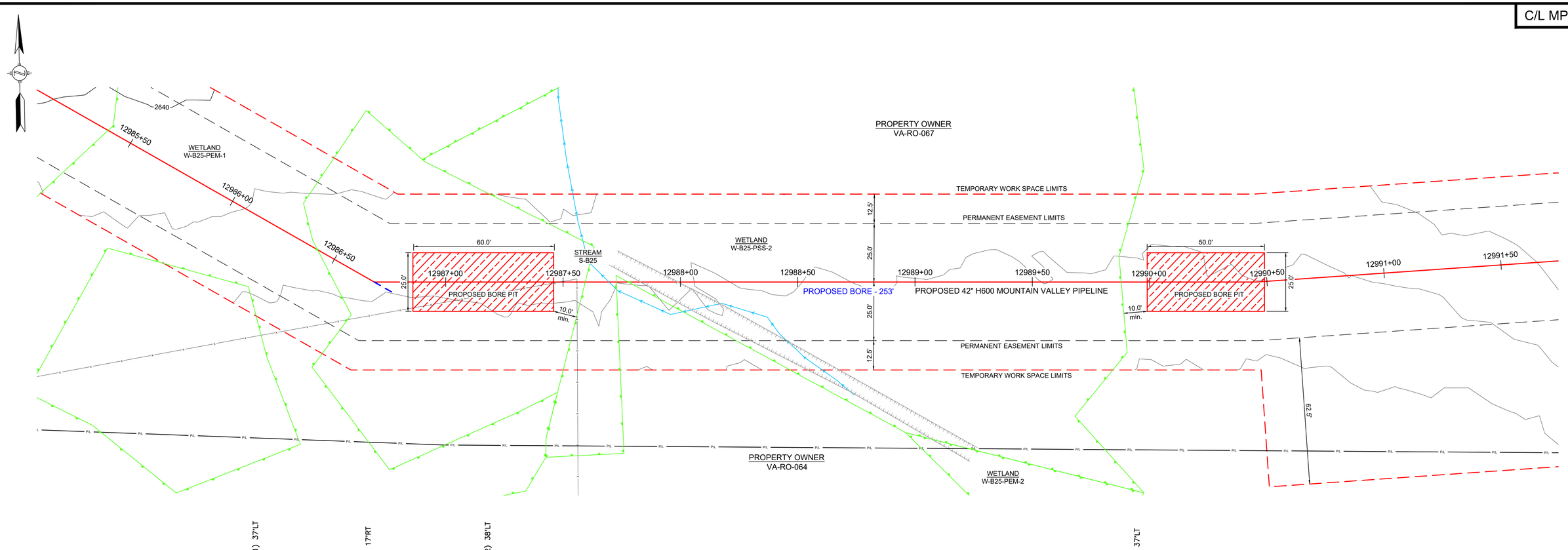
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
	...	.../.../...		...	.../.../...

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-134
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/16/2021 10:36 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12982+50 TO 12988+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 245.80



12985+24 BEGIN WETLAND(W-B25-PEM-1) 37'LT

12986+30 FENCE POST 61'LT

12986+67 END WETLAND(W-B25-PEM-1) 17'RT

12987+18 BEGIN WETLAND(W-B25-PSS-2) 38'LT

12987+48 BEGIN BORE

12987+48 FENCE - BARBED WIRE

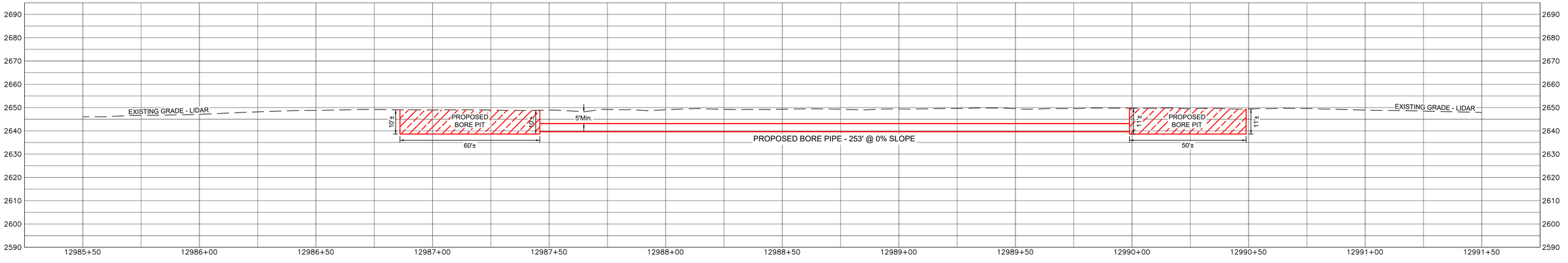
12987+55 FENCE - BARBED WIRE

12987+57 FENCE POST 6'LT

12987+69 ℄ STREAM(S-B25)

12989+94 END WETLAND(W-B25-PSS-2) 37'LT

12990+98 END BORE



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY (R/W)
- PROPERTY LINE (P/L)
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN (W)
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-ROVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	10/03/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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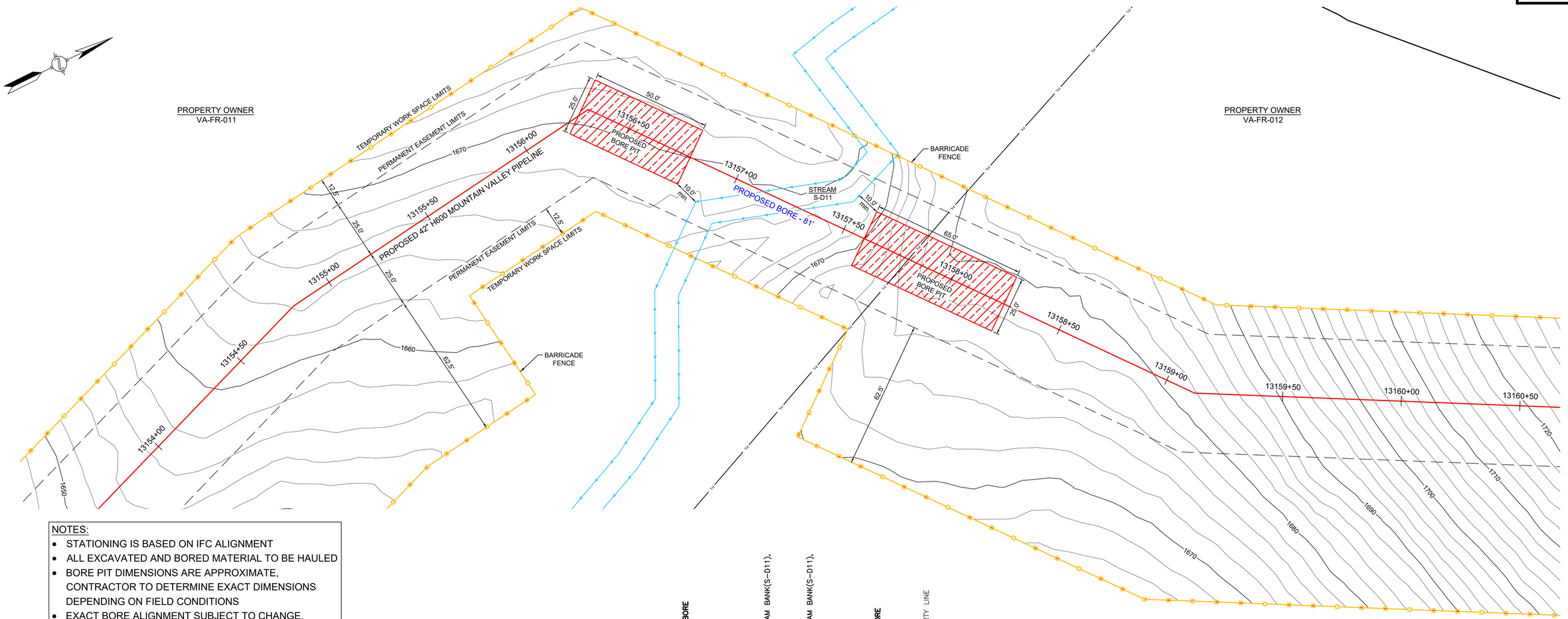
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/19/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-135
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 10/3/2020 10:32 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 12985+50 TO 12991+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
ROANOKE COUNTY, VIRGINIA

C/L MP 249.00



NOTES:

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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
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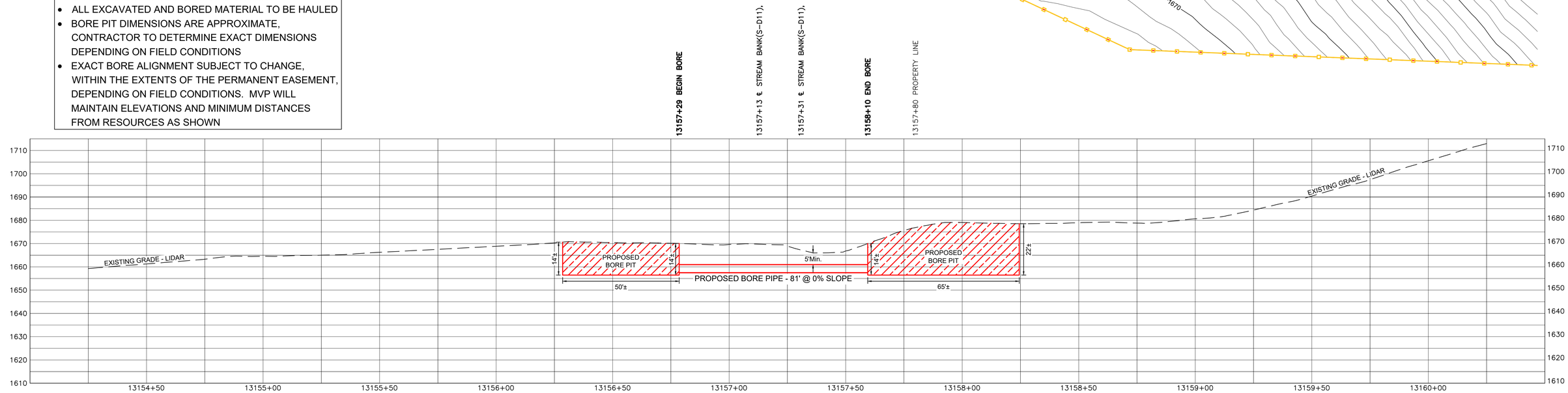

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-03	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/10/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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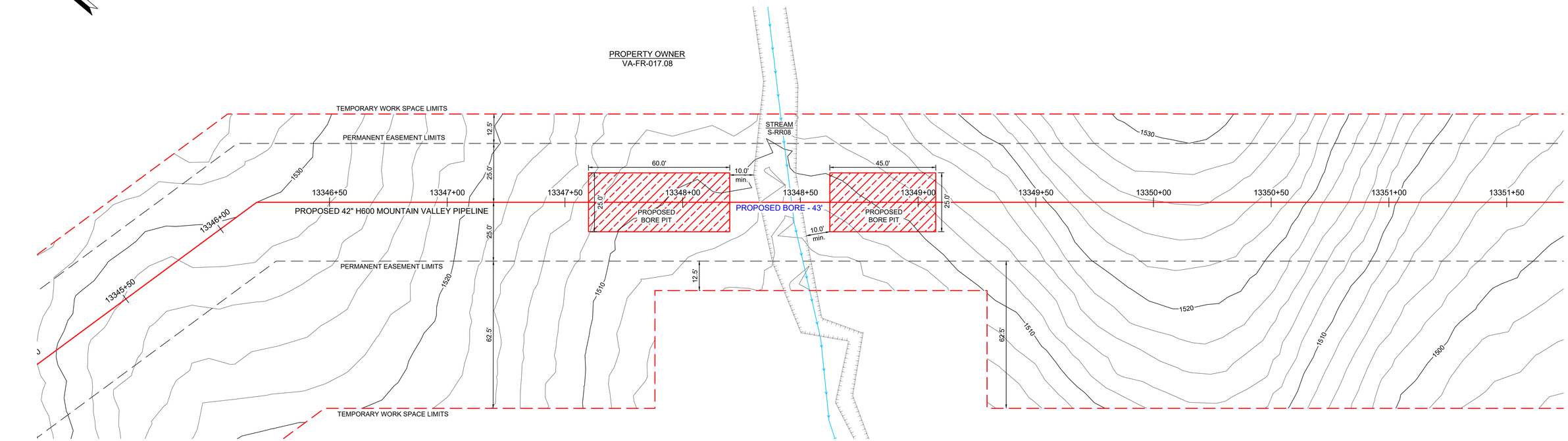
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-137
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/10/2020 9:45 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13154+25 TO 13160+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 252.63



NOTES:

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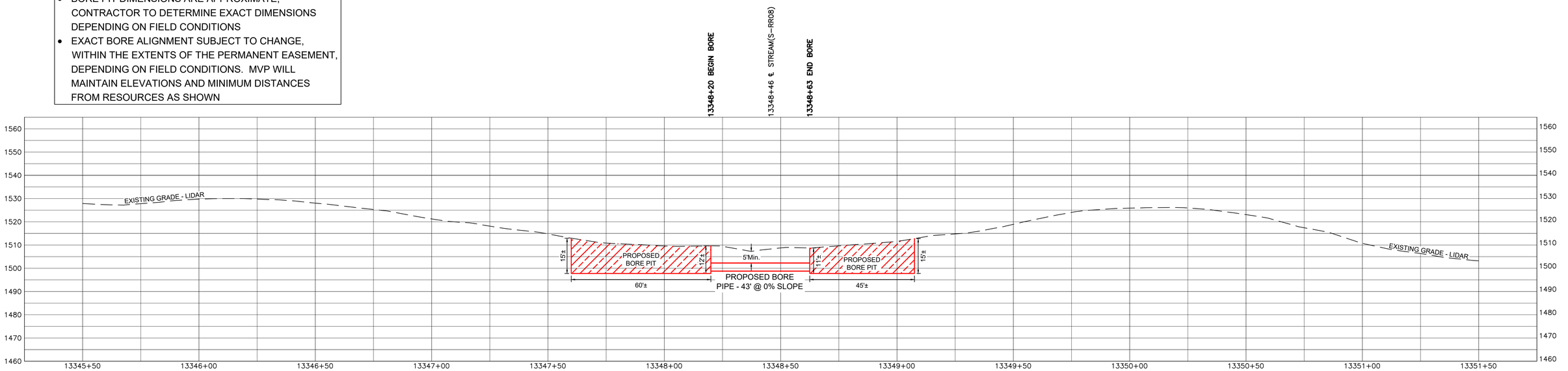

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
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- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-07	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/10/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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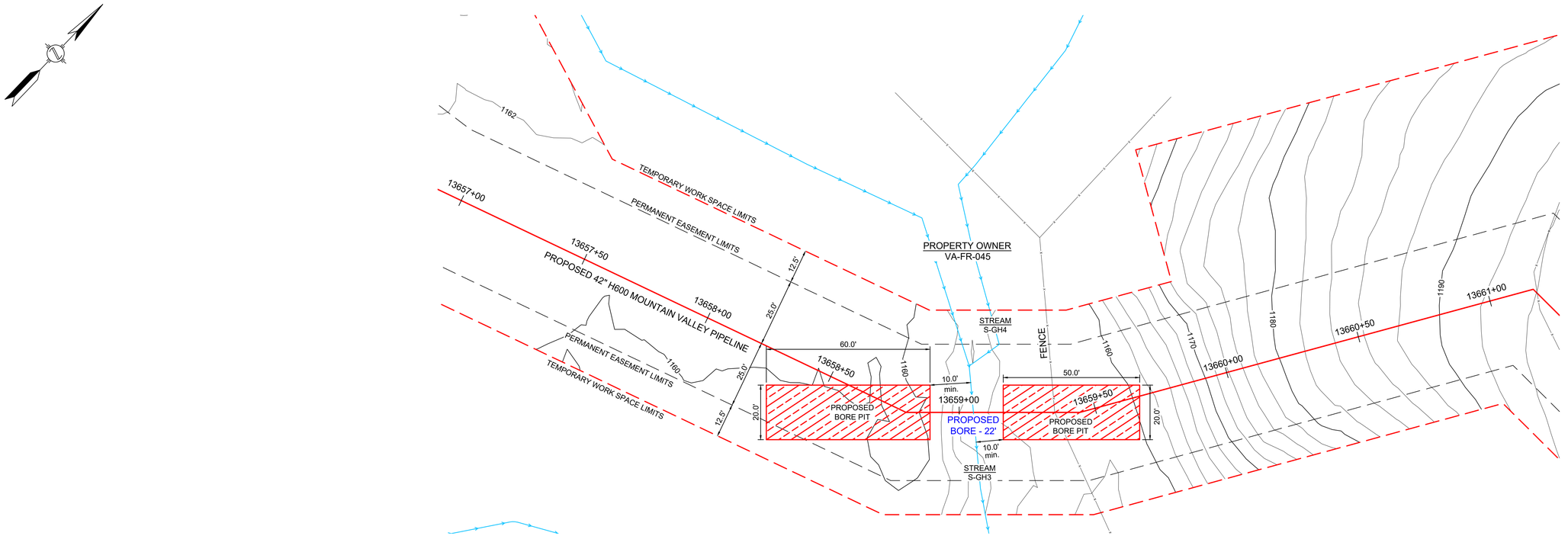
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-138
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/10/2020 9:56 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13345+50 TO 13351+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 258.50



NOTES:

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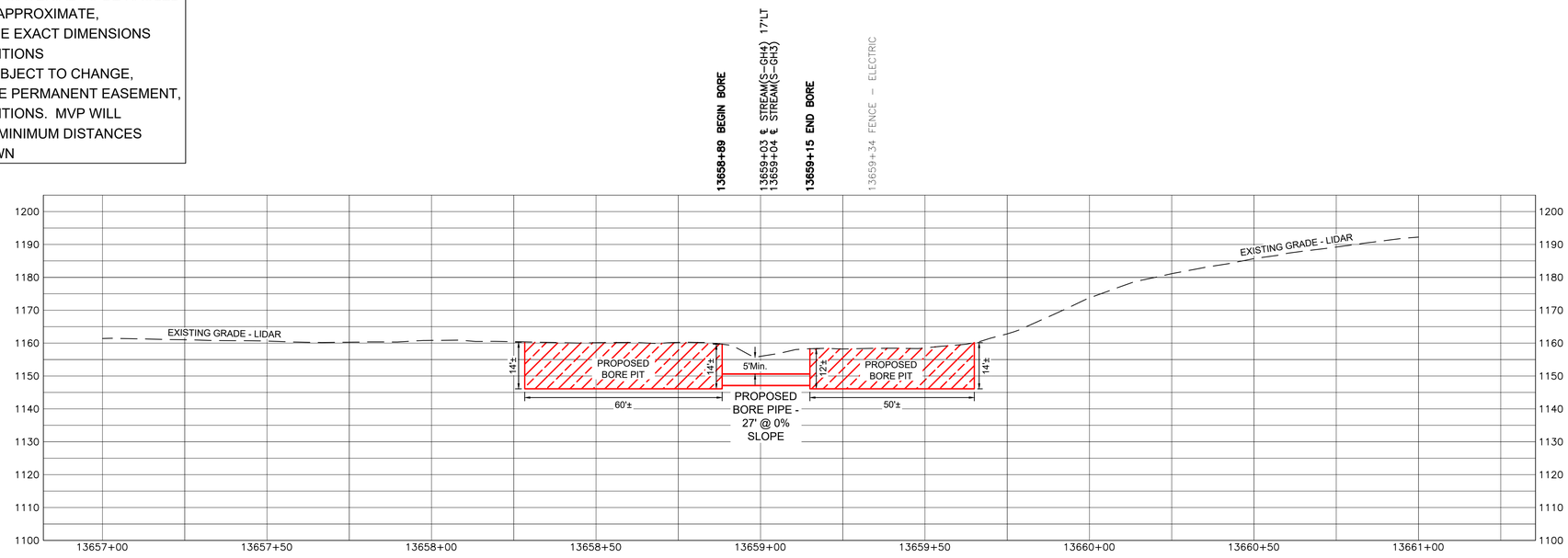

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-13	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	01/15/21	PRELIMINARY FOR REVIEW

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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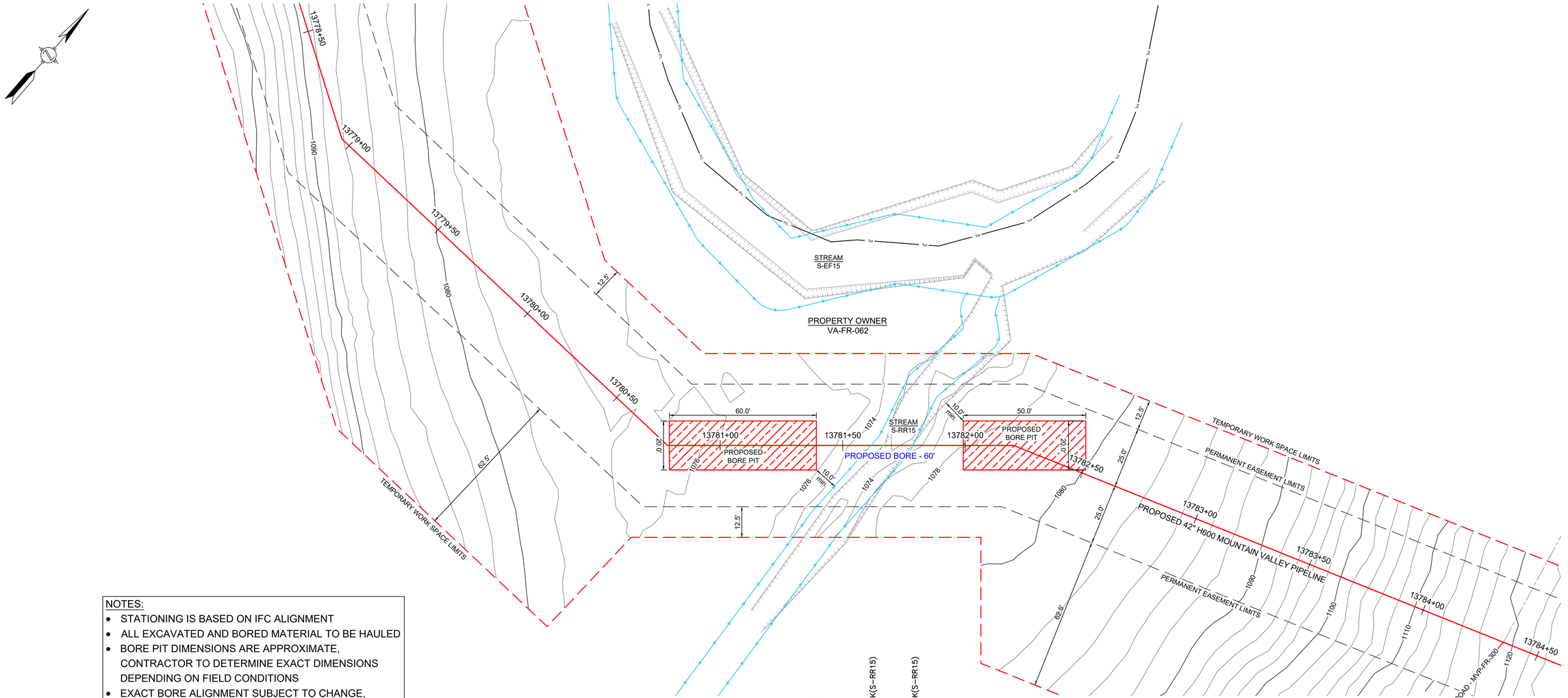
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	1/15/2021
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-249	
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 1/15/2021 10:29 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13657+00 TO 13661+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 260.83



NOTES:

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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
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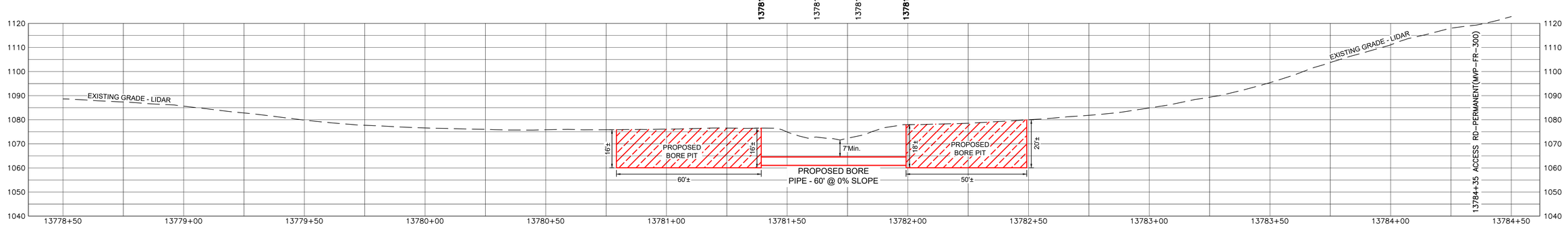

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-16	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/15/20	PRELIMINARY FOR REVIEW
1	HEI	06/05/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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REV.	BY	DATE	REV.	BY	DATE
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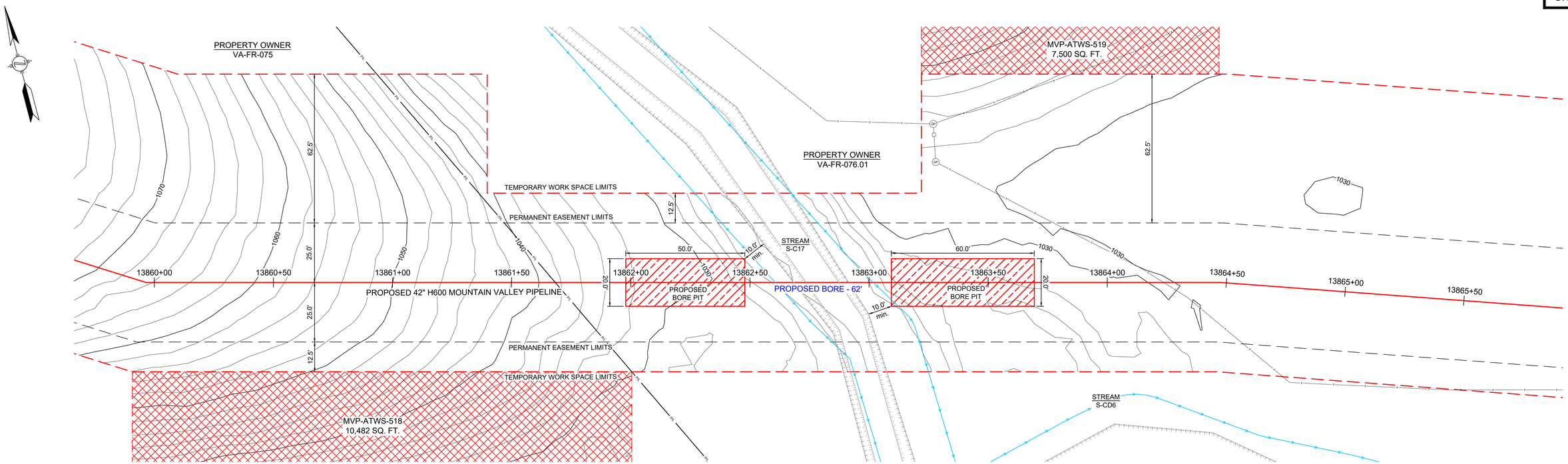
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/15/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	PP-H600-145
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/5/2020 12:34 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13778+50 TO 13784+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 262.37



NOTES:

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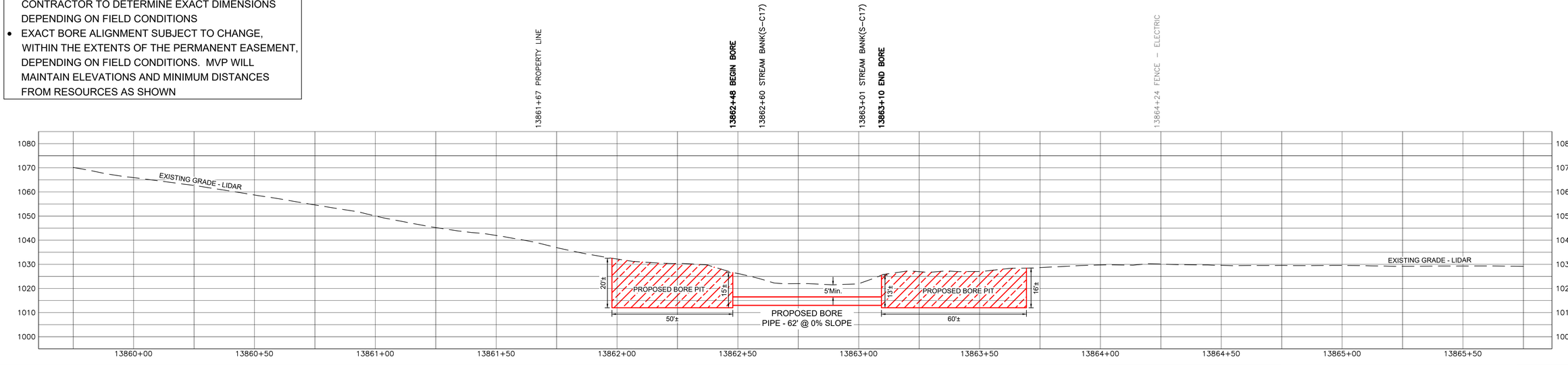

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-16	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/17/20	PRELIMINARY FOR REVIEW
1	HEI	06/02/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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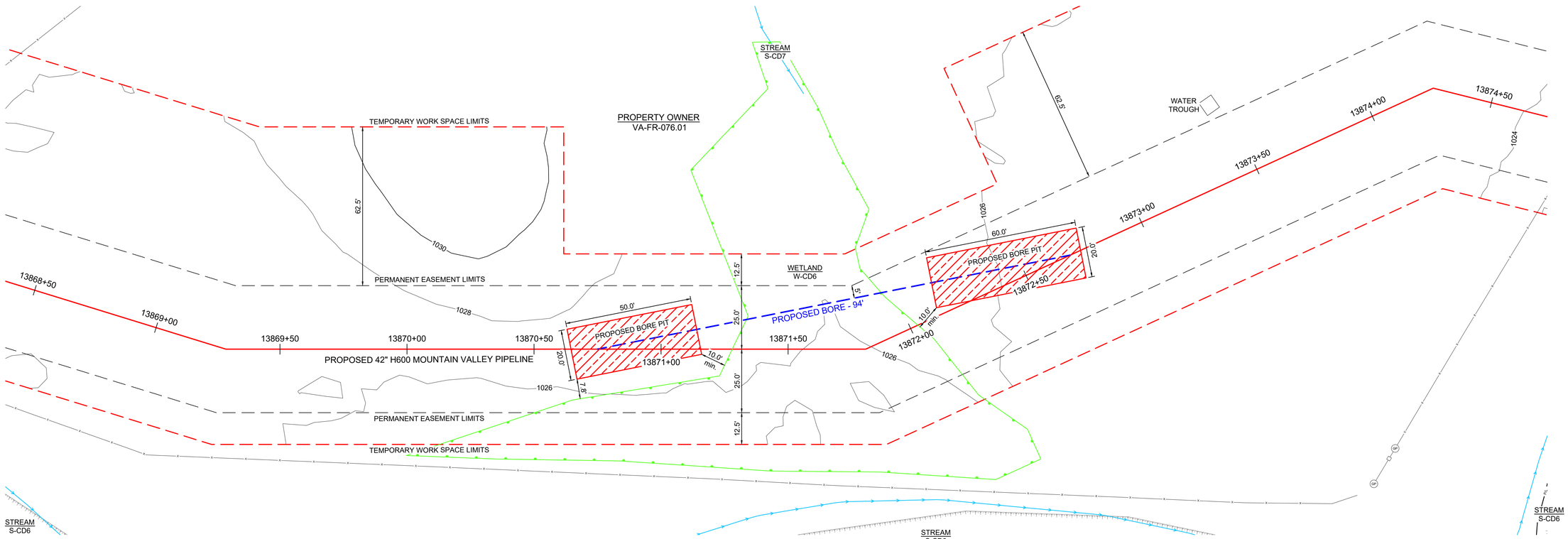
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/17/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-149
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/2/2020 3:19 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13859+75 TO 13865+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 262.54



NOTES:

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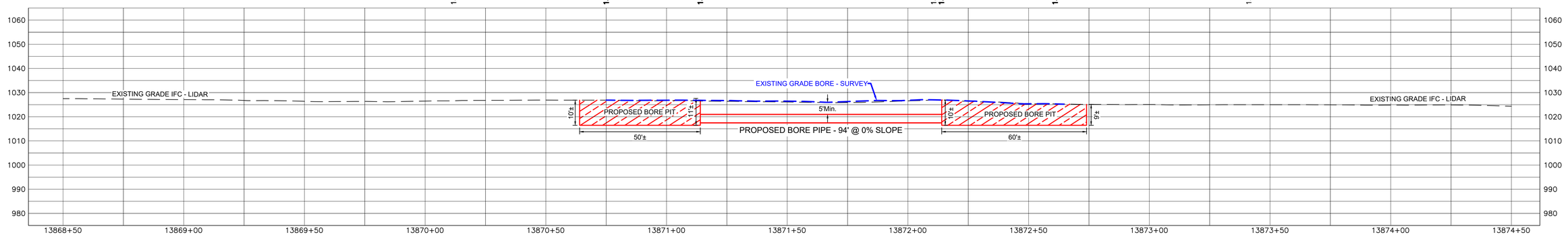

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-18	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/17/20	PRELIMINARY FOR REVIEW
1	HEI	06/02/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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REV.	BY	DATE	REV.	BY	DATE
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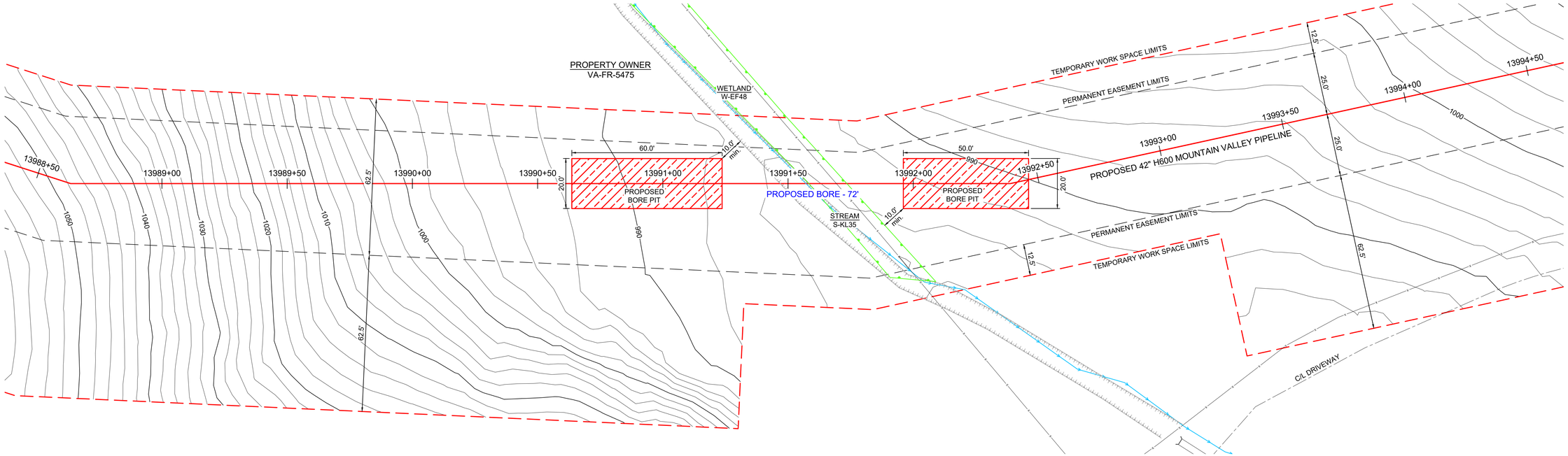
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/17/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-150
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/2/2020 5:04 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13868+50 TO 13874+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 264.81



NOTES:

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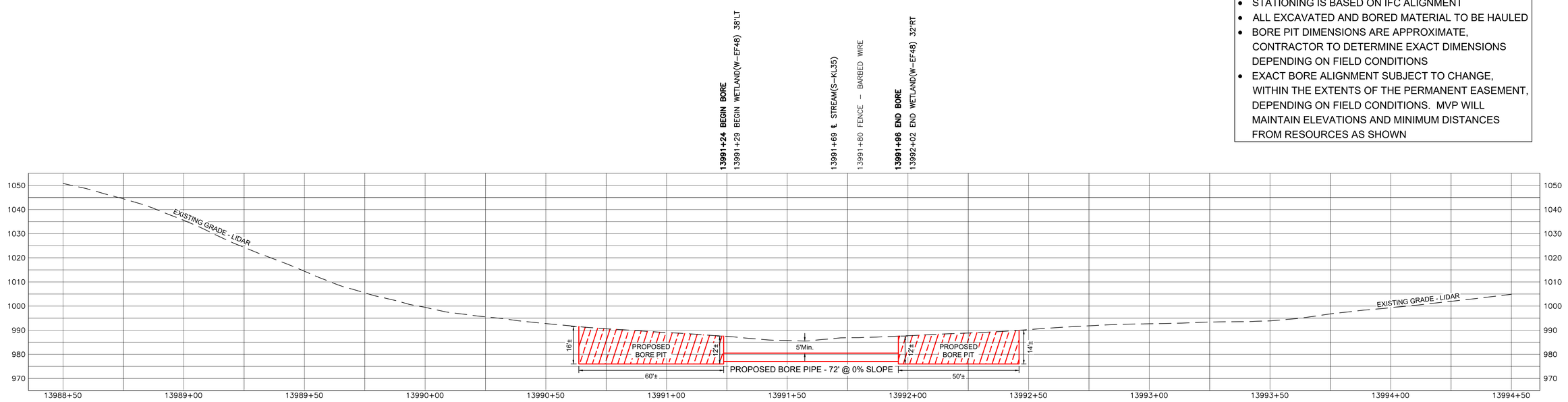

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-20	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/17/20	PRELIMINARY FOR REVIEW
1	HEI	06/05/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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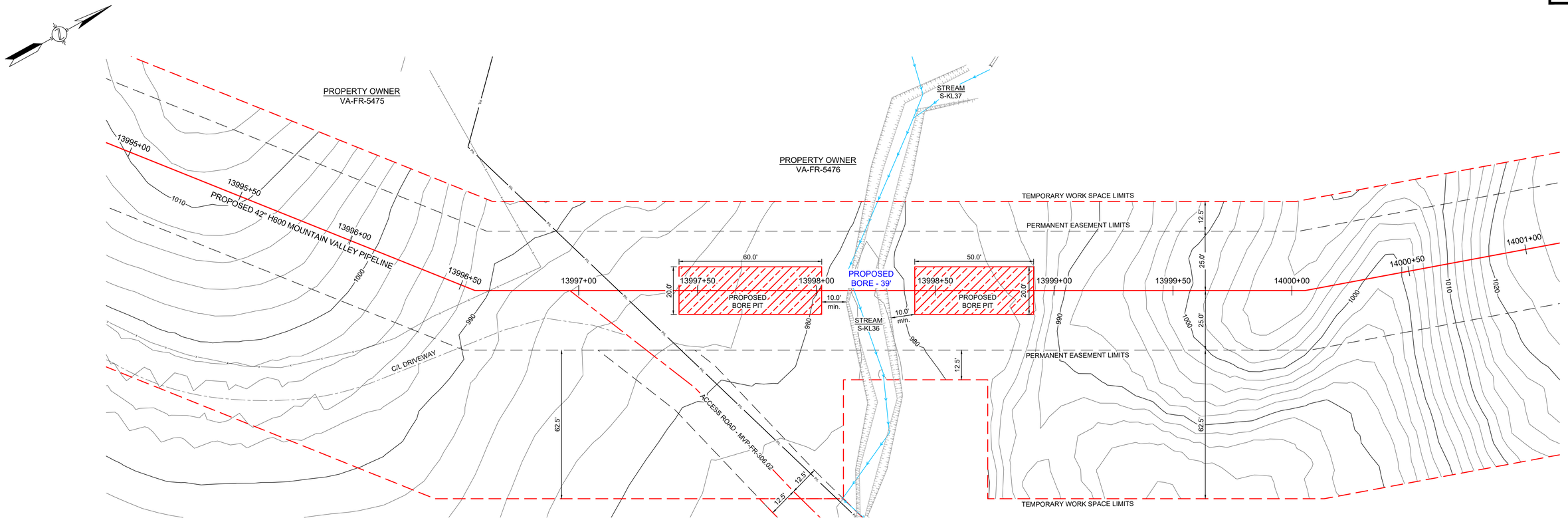
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

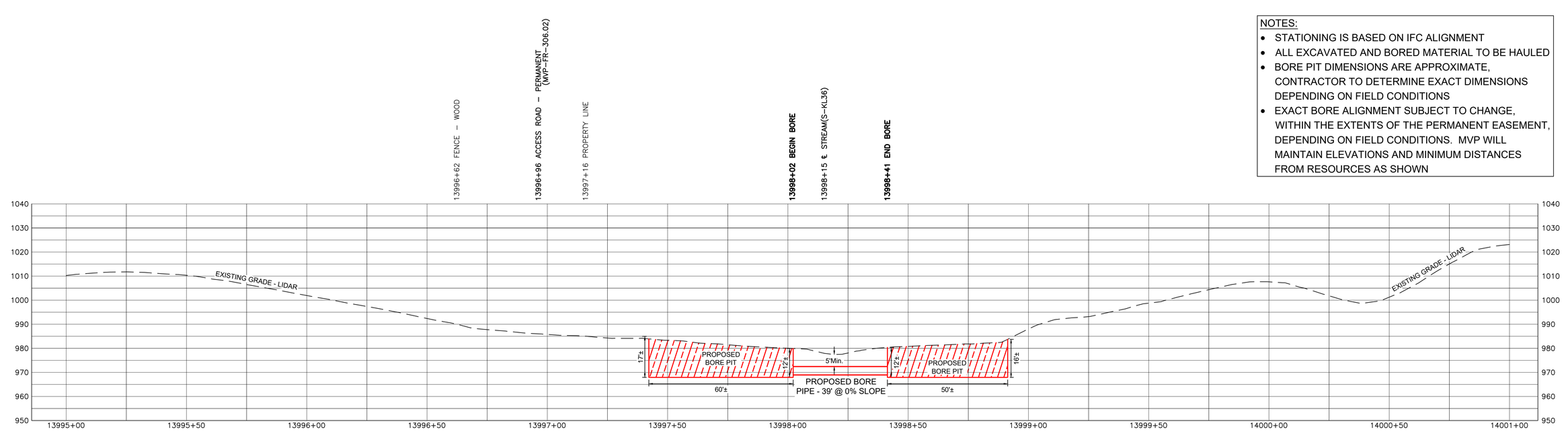
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/17/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-153	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 8:44 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13988+50 TO 13994+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 264.93





NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-20	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/17/20	PRELIMINARY FOR REVIEW
1	HEI	06/05/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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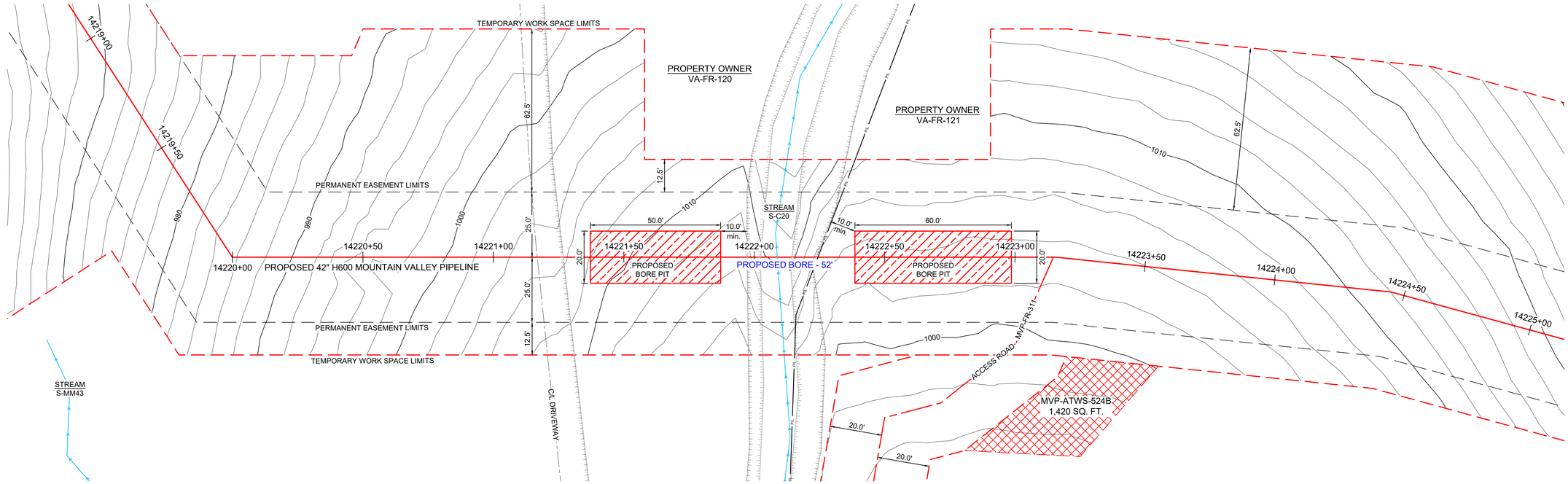
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/17/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-154
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/5/2020 4:09 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 13995+00 TO 14001+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 269.17



NOTES:

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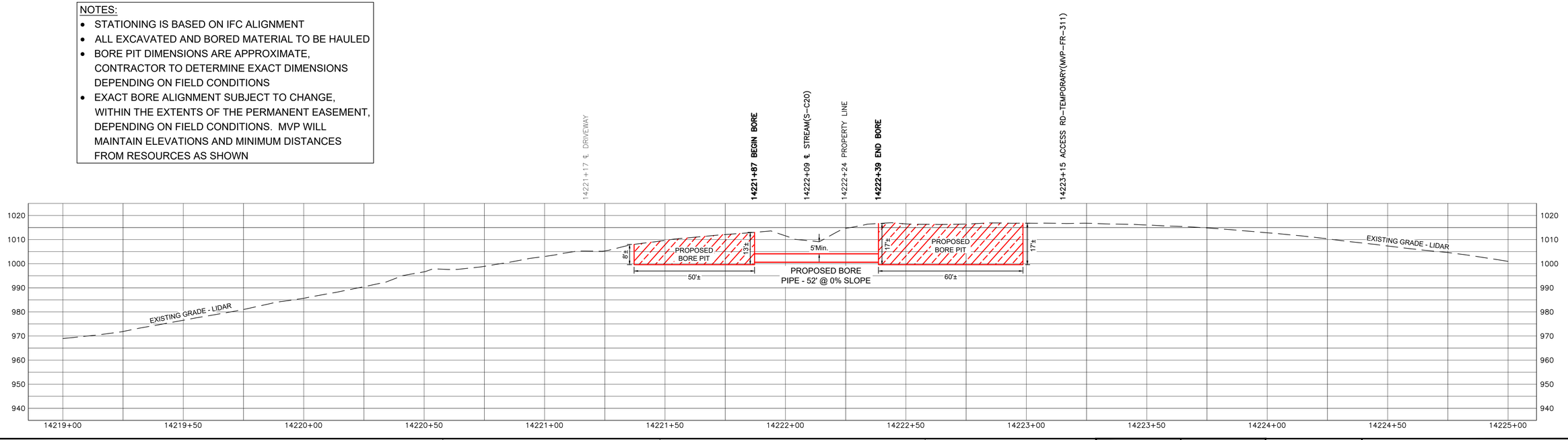

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY (R/W)
- PROPERTY LINE (P/L)
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-25	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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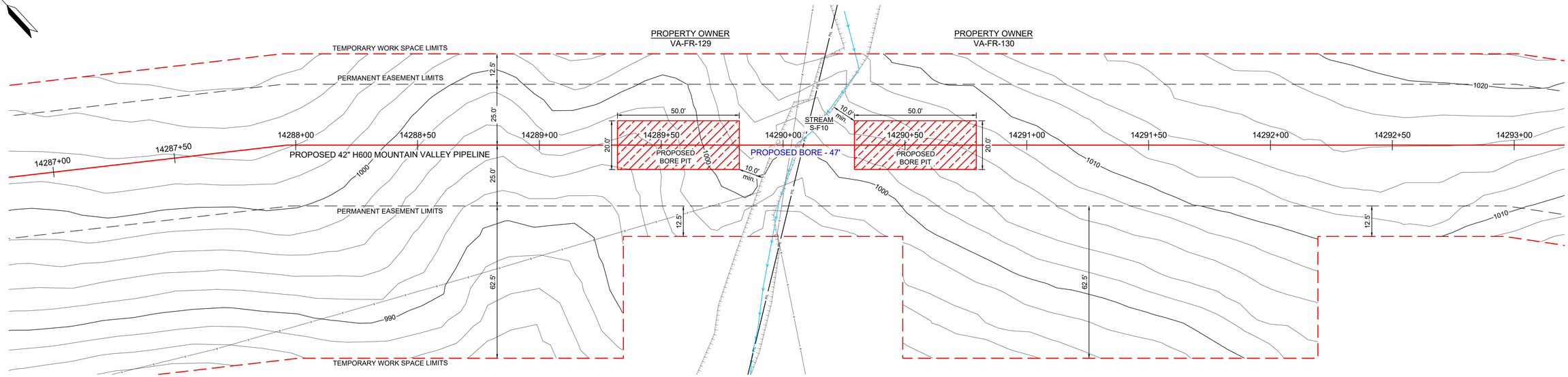
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-160
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 5:20 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14219+00 TO 14225+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 270.46



NOTES:

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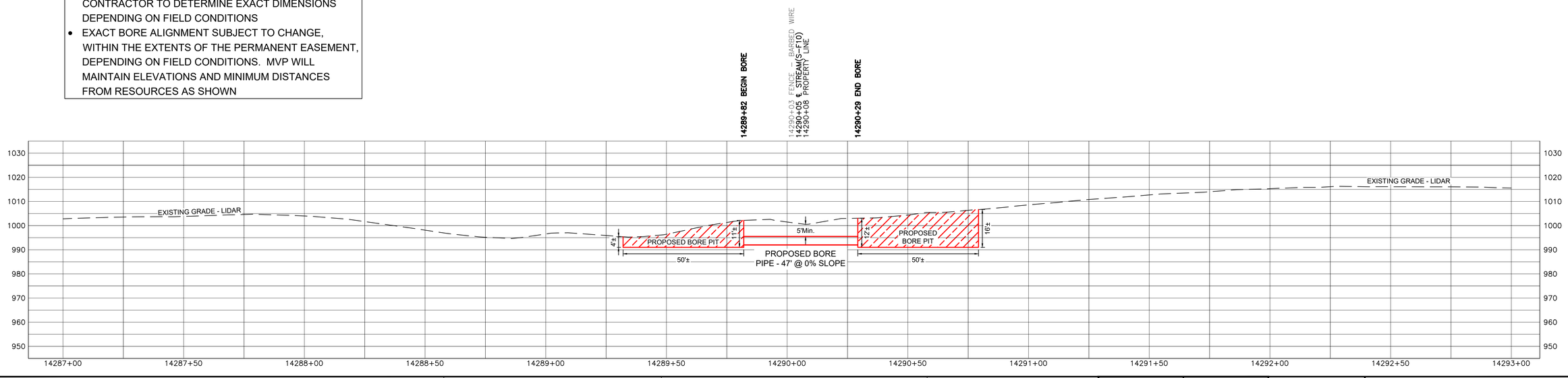

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-26	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/11/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
T 248-827-7322 F 248-827-7549
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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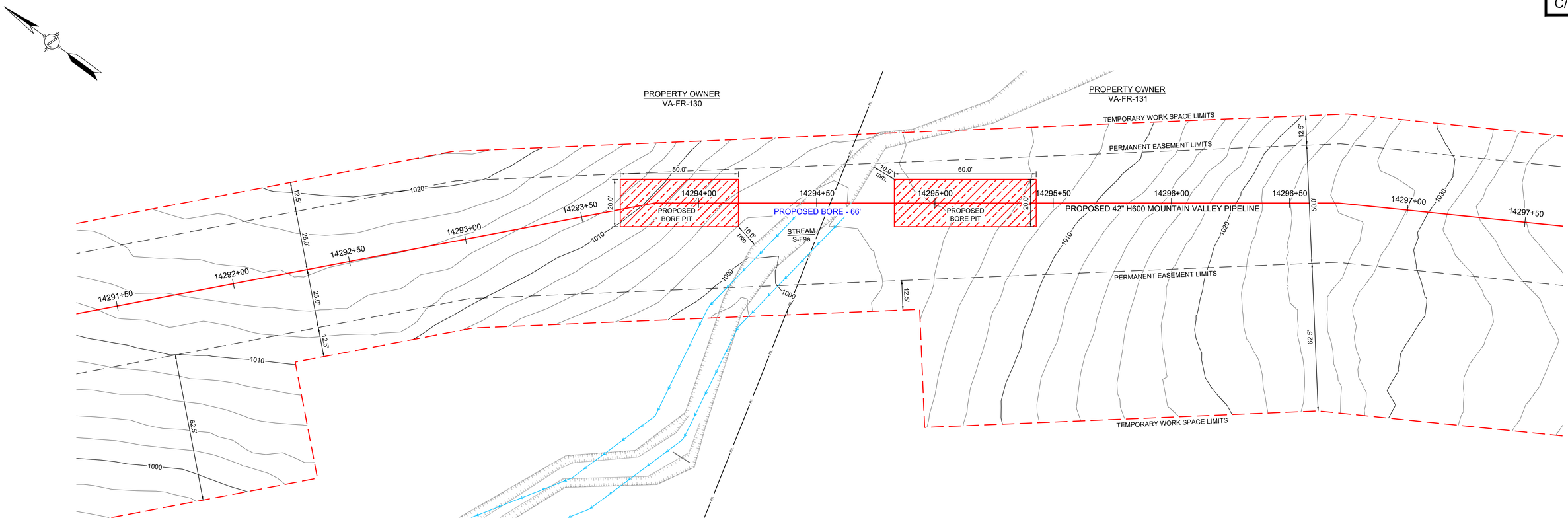
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-163
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/11/2020 8:01 AM	

Mountain Valley PIPELINE

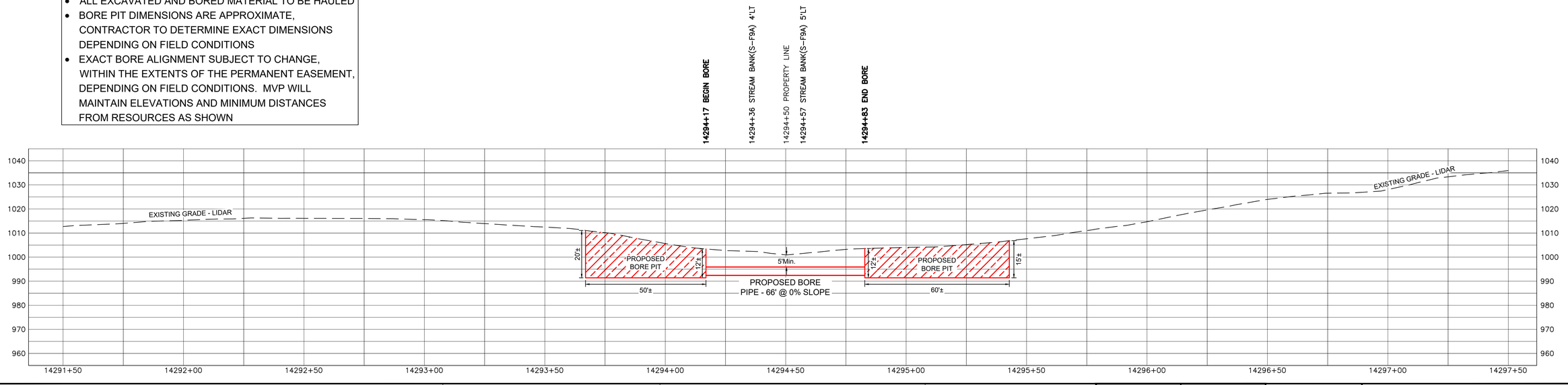
PLAN & PROFILE
STATION 14287+00 TO 14293+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 270.55



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-26	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/11/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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26555 Evergreen Rd. Suite. 430
Southfield, Michigan 48076
T 248-827-7322 F 248-827-7549
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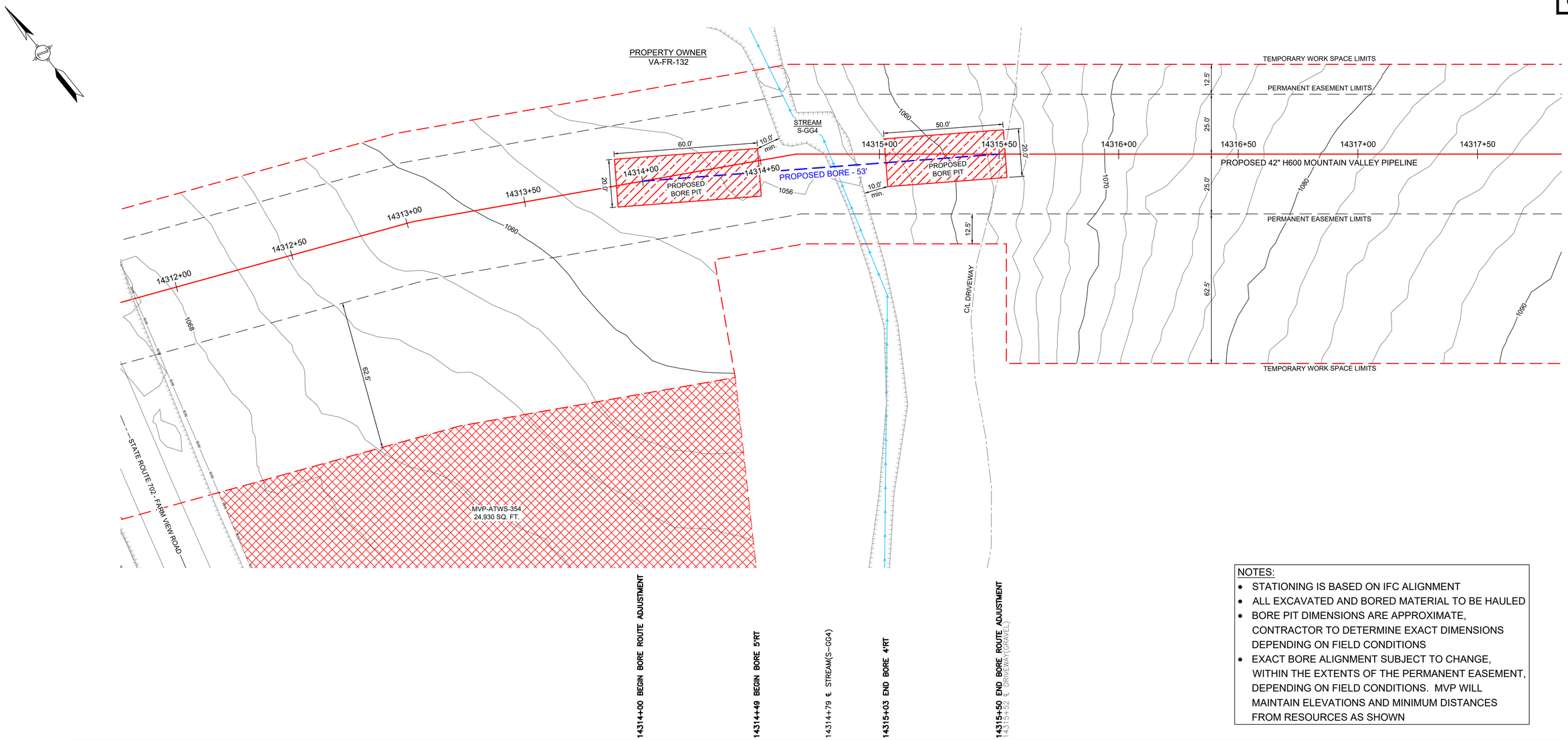
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

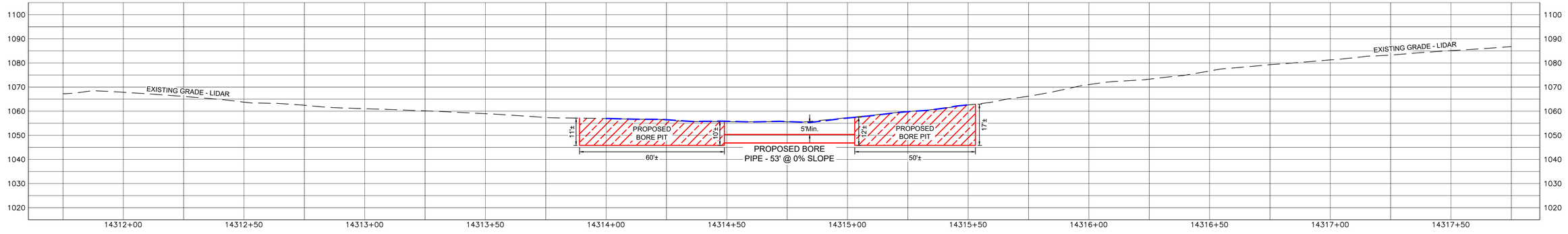
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-164
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/11/2020 8:16 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14291+50 TO 14297+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 270.55





NOTES:
- STATIONING IS BASED ON IFC ALIGNMENT
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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-27	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/11/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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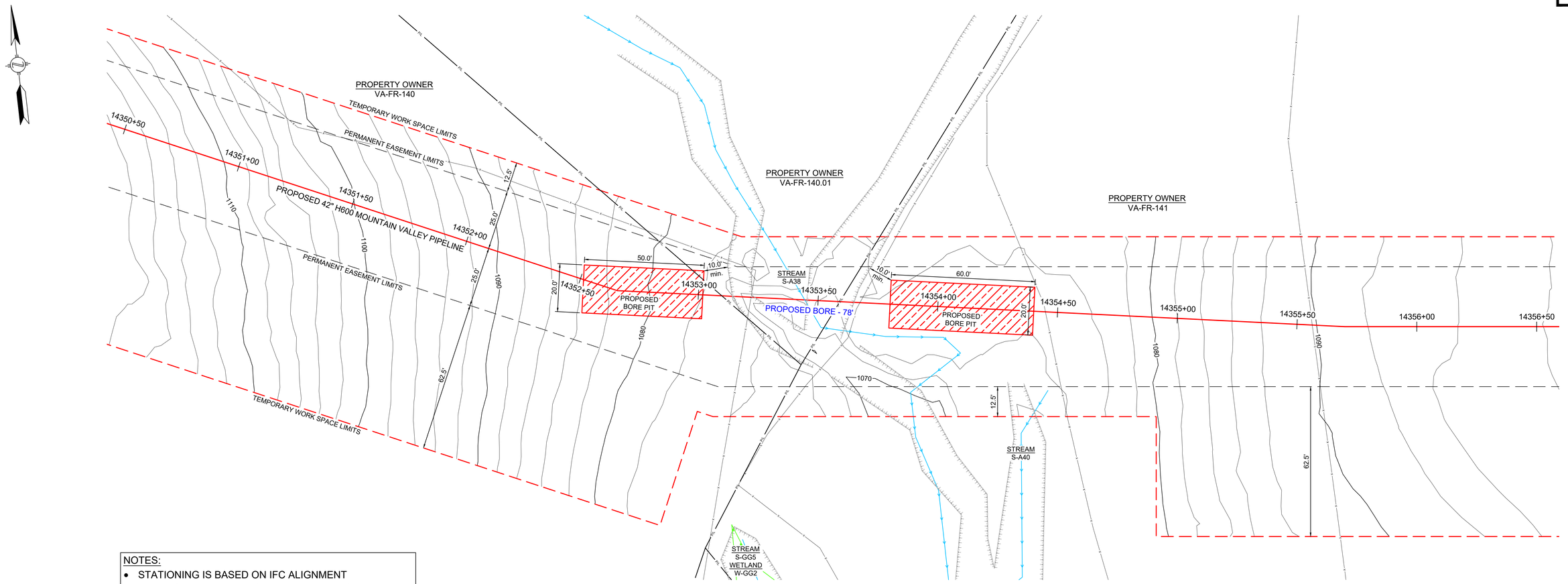
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-165	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/11/2020 8:58 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14311+75 TO 14317+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 271.66



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
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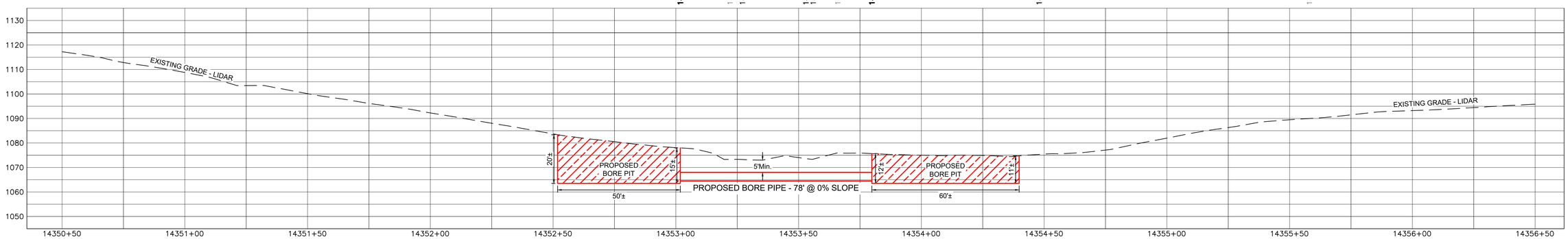
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

14353+02 BEGIN BORE
14353+22 FENCE – BARBED WIRE
14353+27 PROPERTY LINE
14353+53 ℄ STREAM(S--A38)
14353+55 PROPERTY LINE
14353+66 FENCE – BARBED WIRE
14353+80 END BORE
14354+48 ℄ STREAM(S--A40) 27'RT,
FENCE – BARBED WIRE
14355+58 FENCE – BARBED WIRE



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
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- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-27	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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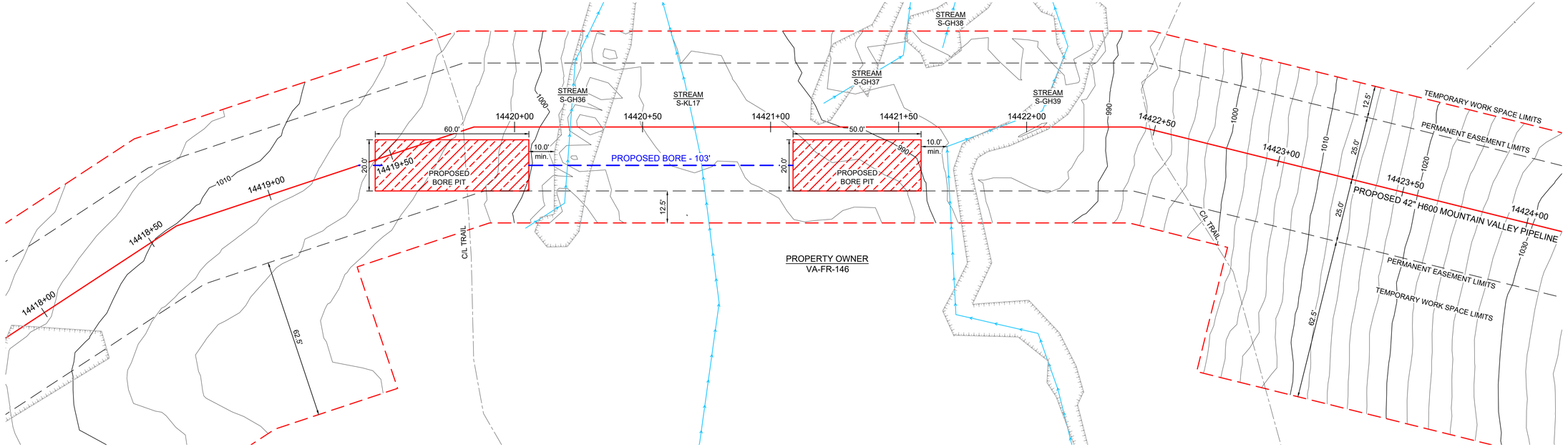
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-167
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/19/2020 3:58 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14350+50 TO 14356+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 272.94



NOTES:

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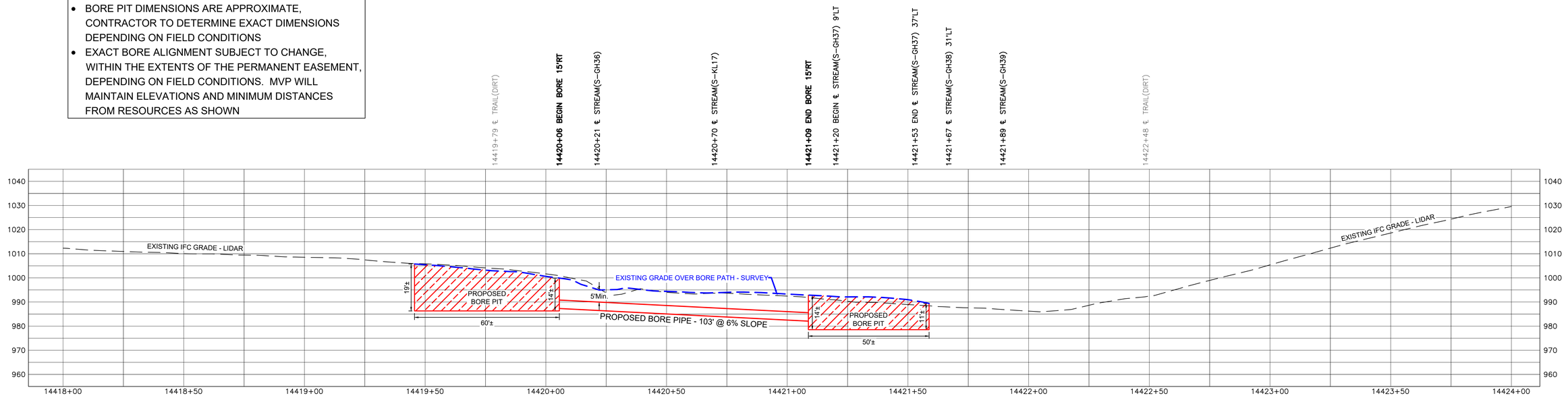

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-29	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/02/21	ISSUED FOR VARIANCE REQUEST

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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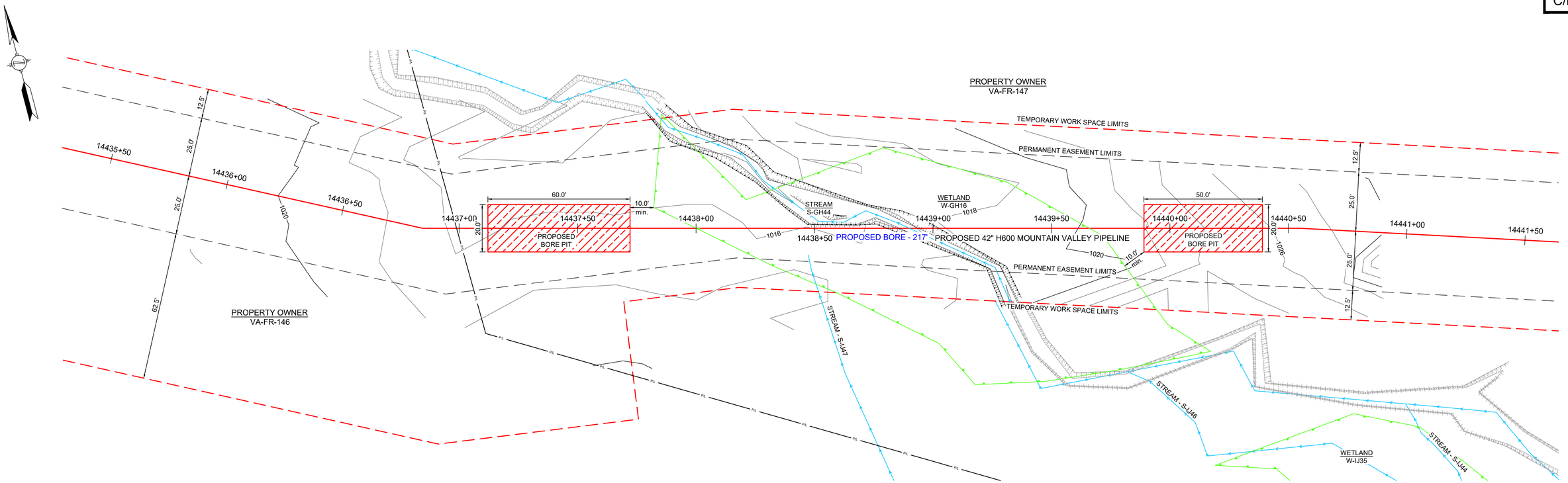
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-169	
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/2/2021 10:20 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14418+00 TO 14424+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 273.29



NOTES:

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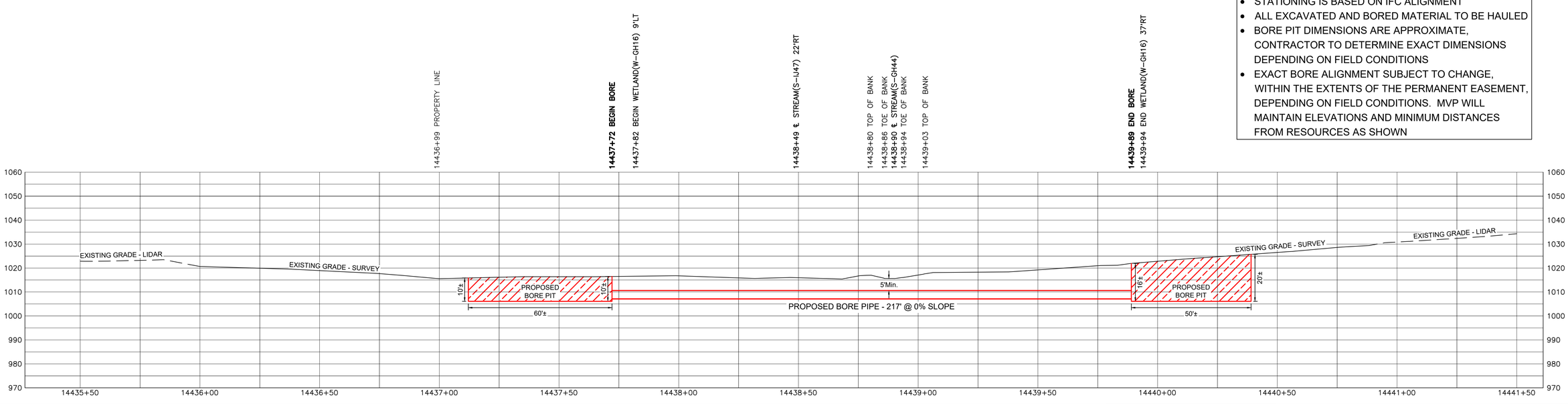

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-29	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	06/25/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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
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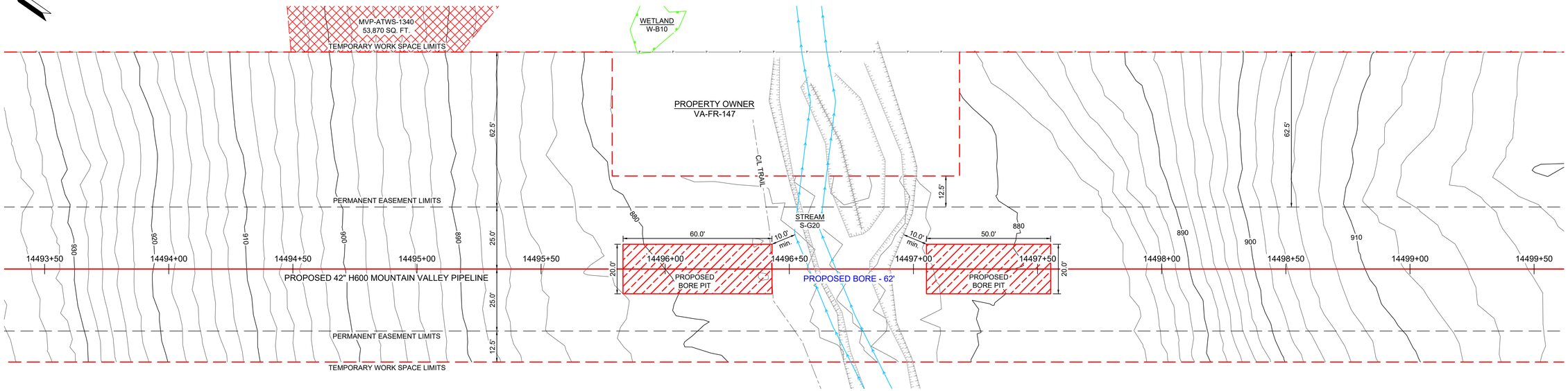
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-076
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/25/2020 4:58 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14435+50 TO 14441+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 274.37



NOTES:

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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
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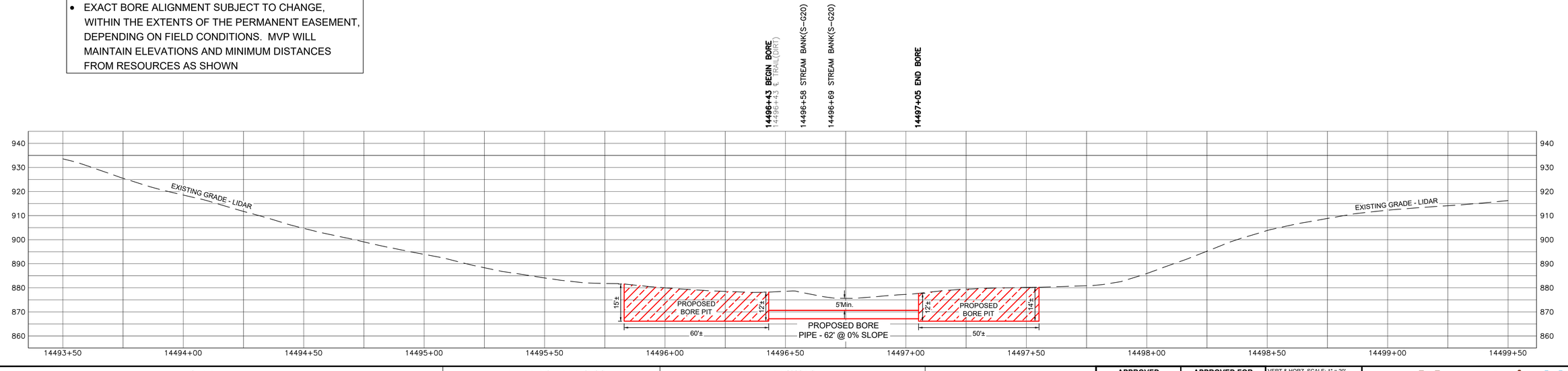

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-30	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
T 616-392-5938 F 616-392-2116

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Southfield, Michigan 48076
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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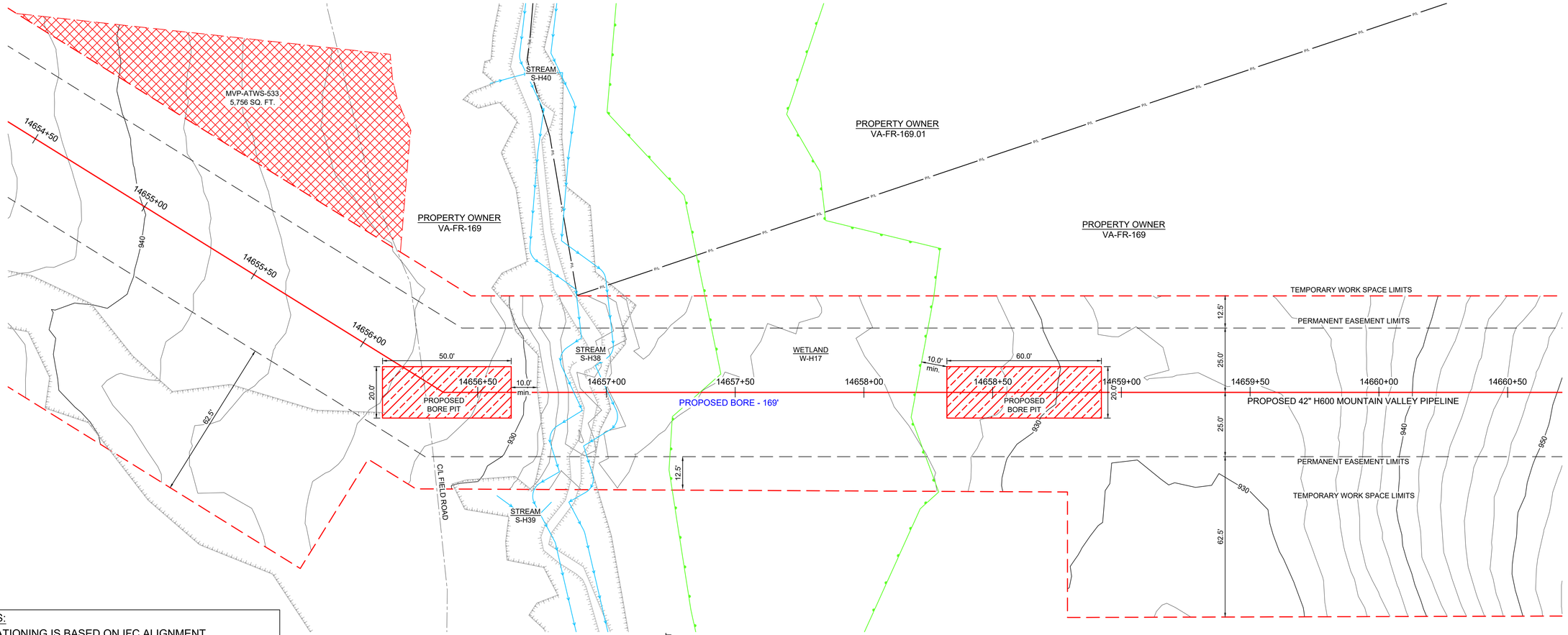
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-171	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/16/2020 7:14 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14493+50 TO 14499+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 277.41



NOTES:

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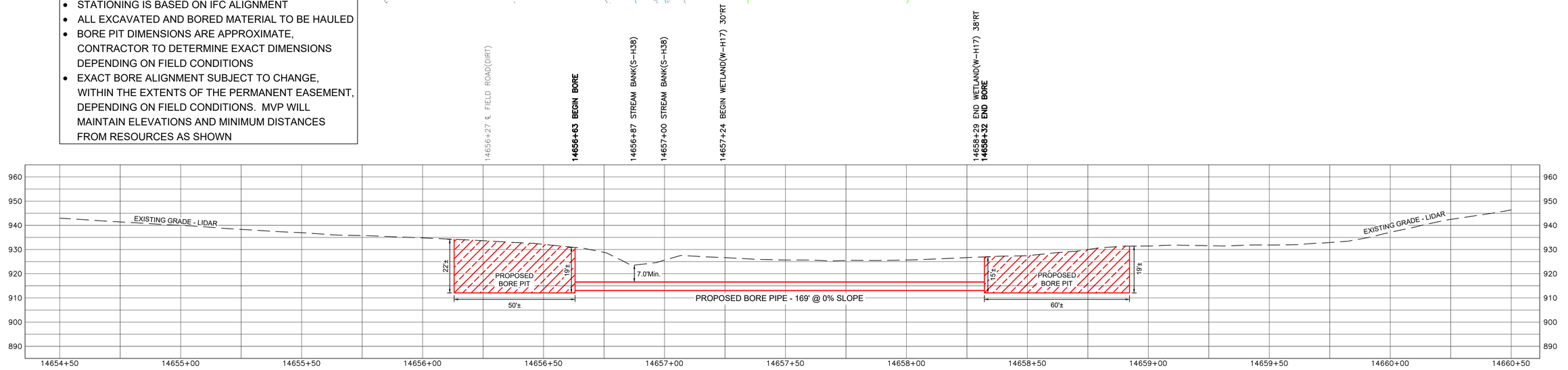

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-33	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/18/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	01/15/21	REVISED MINIMUM(Min.) DEPTH TO MATCH SCOUR REQUIREMENTS

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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26555 Evergreen Rd. Suite. 430
Southfield, Michigan 48076
T 248-827-7322 F 248-827-7549

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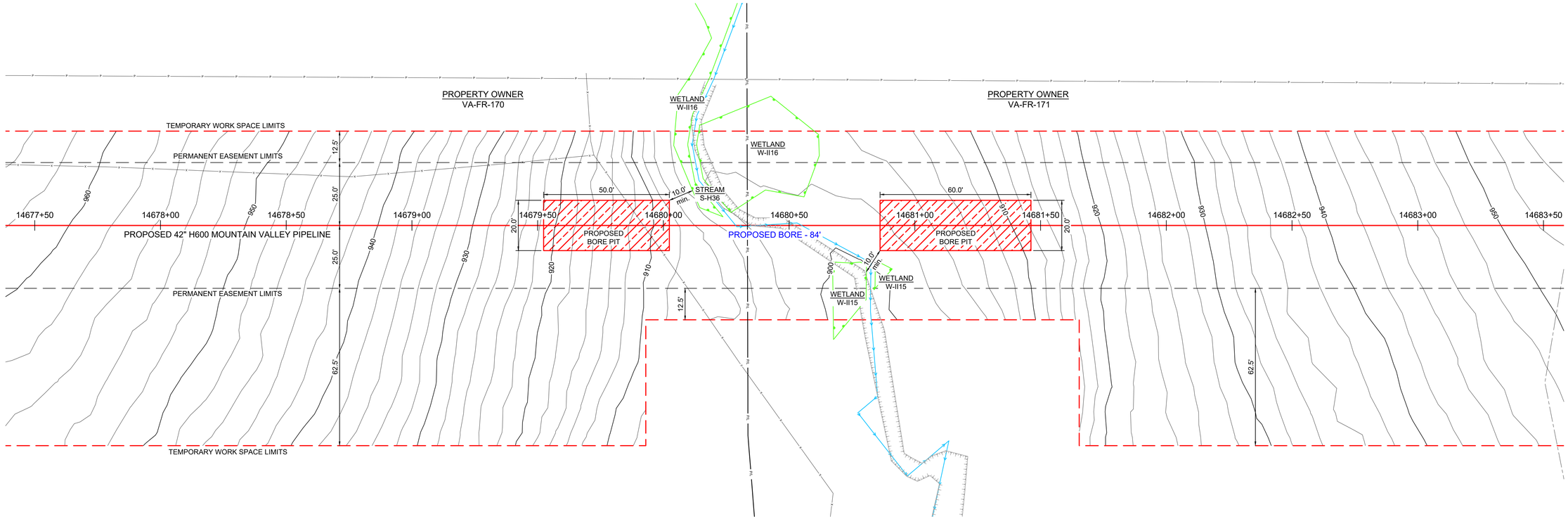
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/18/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-176
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 1/15/2021 1:57 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14654+50 TO 14660+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 277.86



NOTES:

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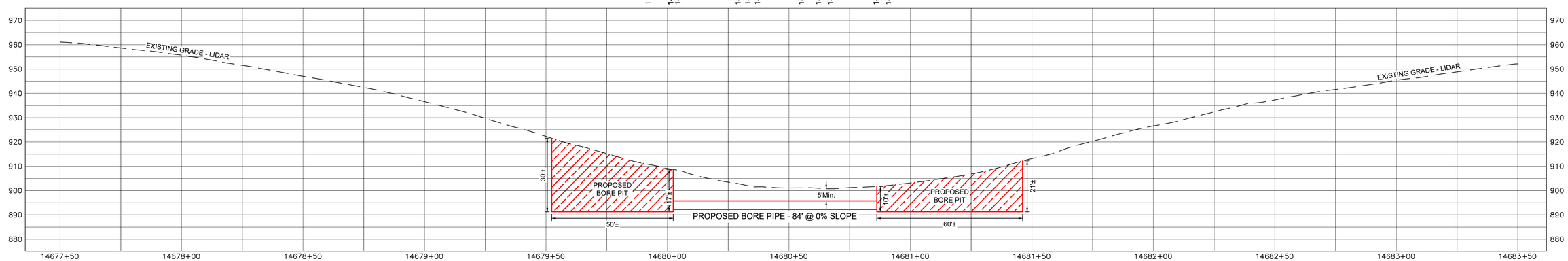
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

14679+92 FENCE – BARBED WIRE
14680+02 BEGIN BORE
14680+04 BEGIN WETLAND(W-H16) 32'LT
14680+29 ℄ STREAM(S-H36)
14680+33 PROPERTY LINE
14680+37 ℄ STREAM(S-H36)
14680+55 ℄ STREAM(S-H36)
14680+62 END WETLAND(W-H16) 28'LT
14680+67 BEGIN WETLAND(W-H15) 15'RT
14680+86 END BORE
14680+91 END WETLAND(W-H15) 17'RT



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-33	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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

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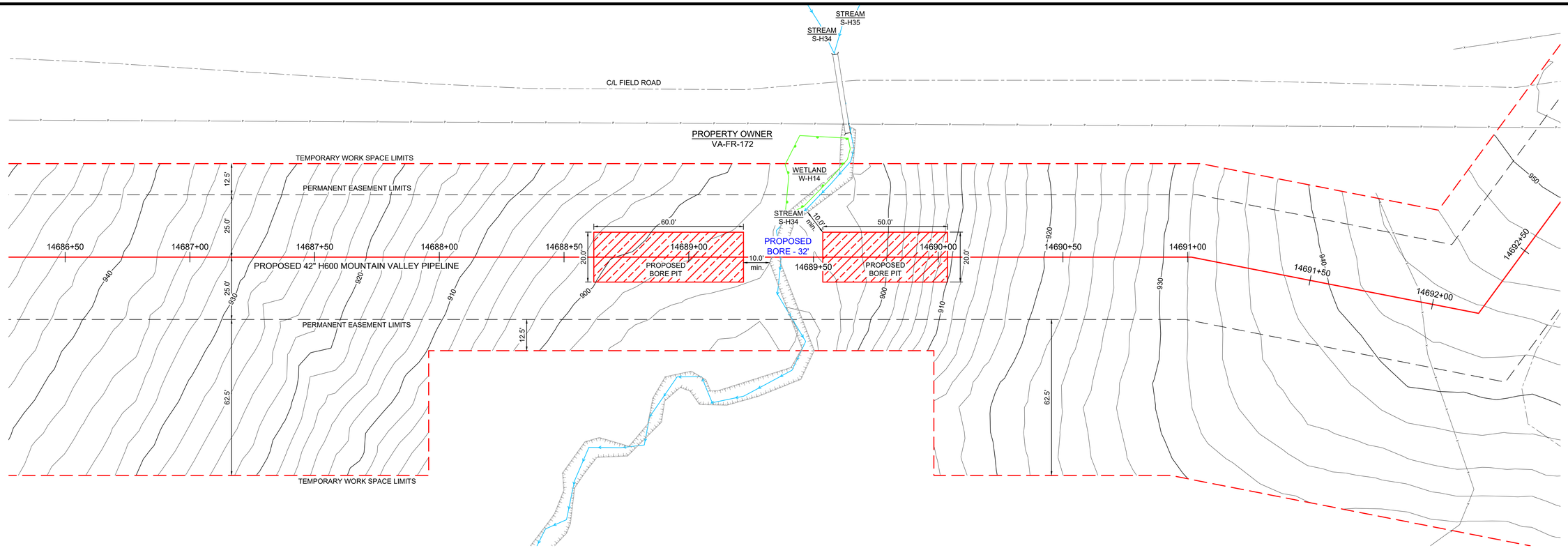
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-178	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 10:21 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14677+50 TO 14683+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 278.02



NOTES:

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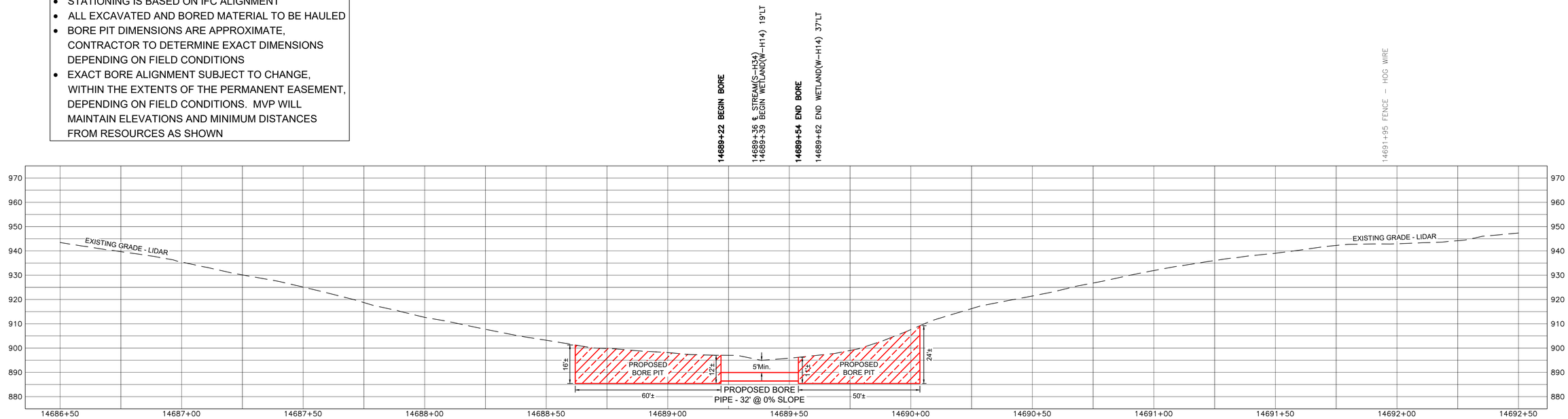

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-33	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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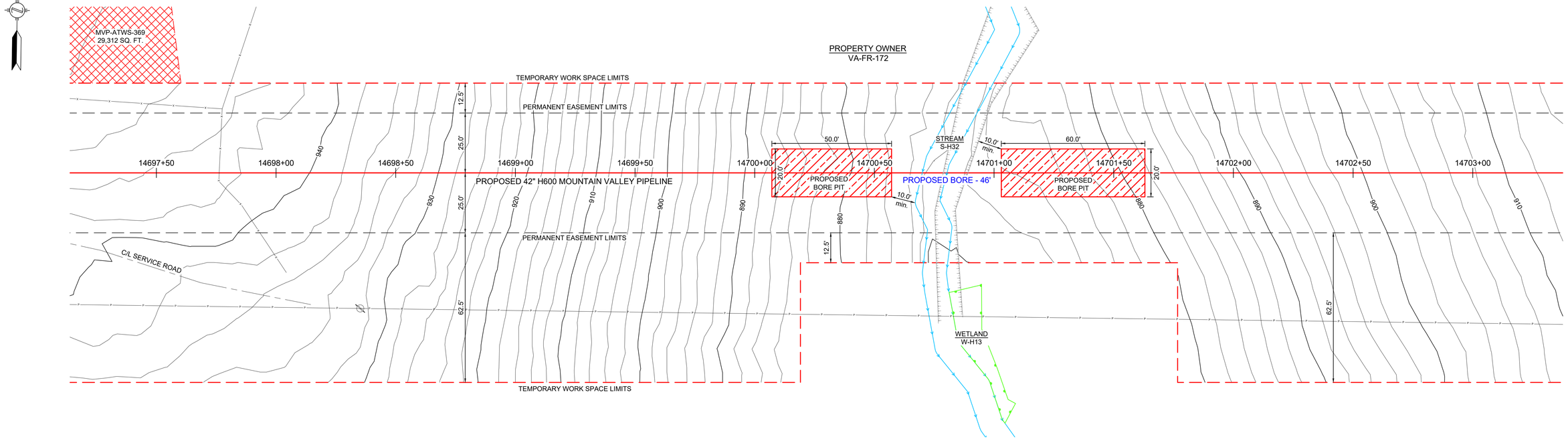
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

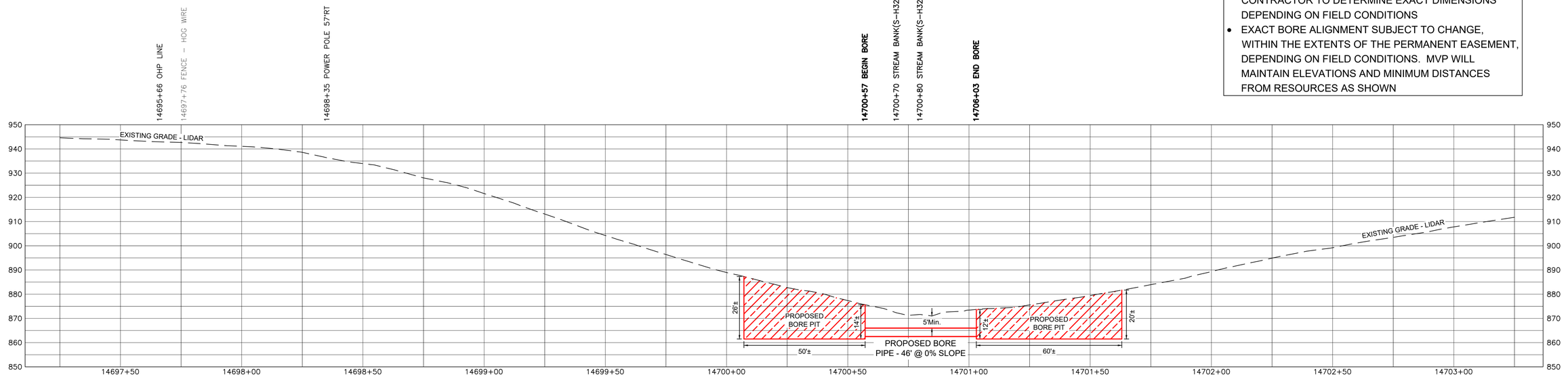
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-179	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 10:23 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14686+50 TO 14692+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 278.24





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LEGEND

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- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- MAILBOX
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- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-34	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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26555 Evergreen Rd. Suite. 430
Southfield, Michigan 48076
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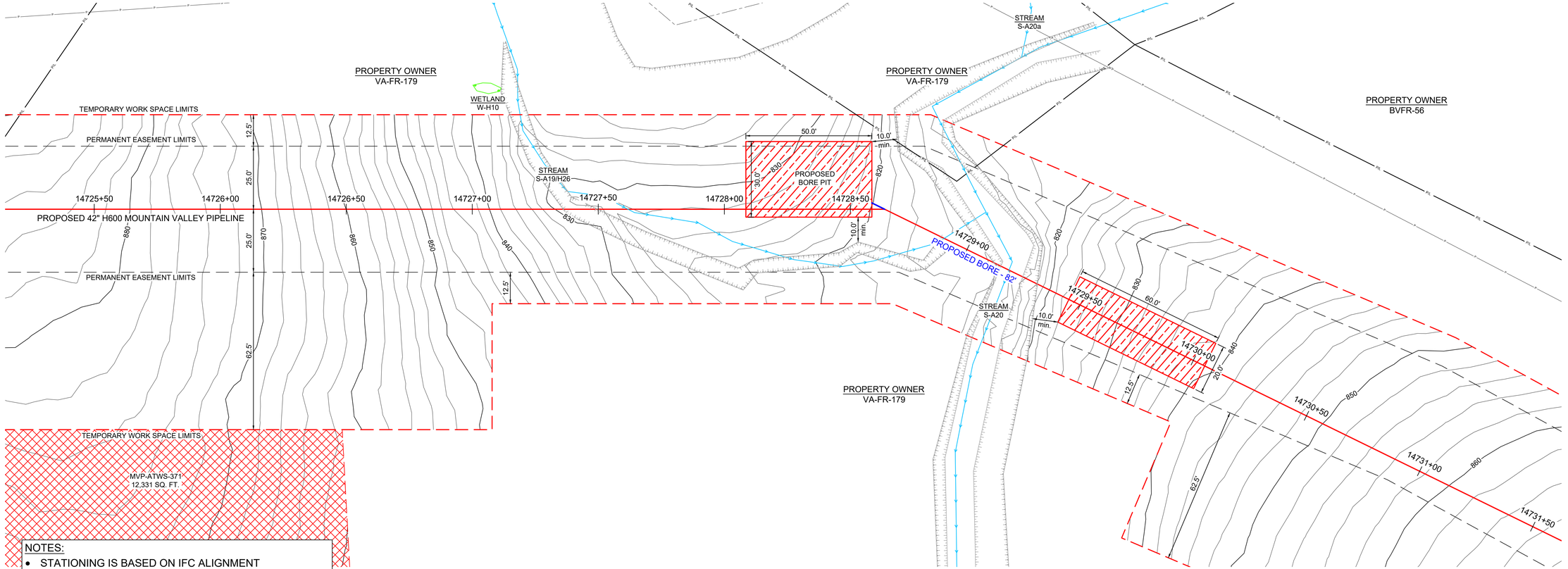
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.: PP-H600-180	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 6:44 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14697+25 TO 14703+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 278.77



NOTES:

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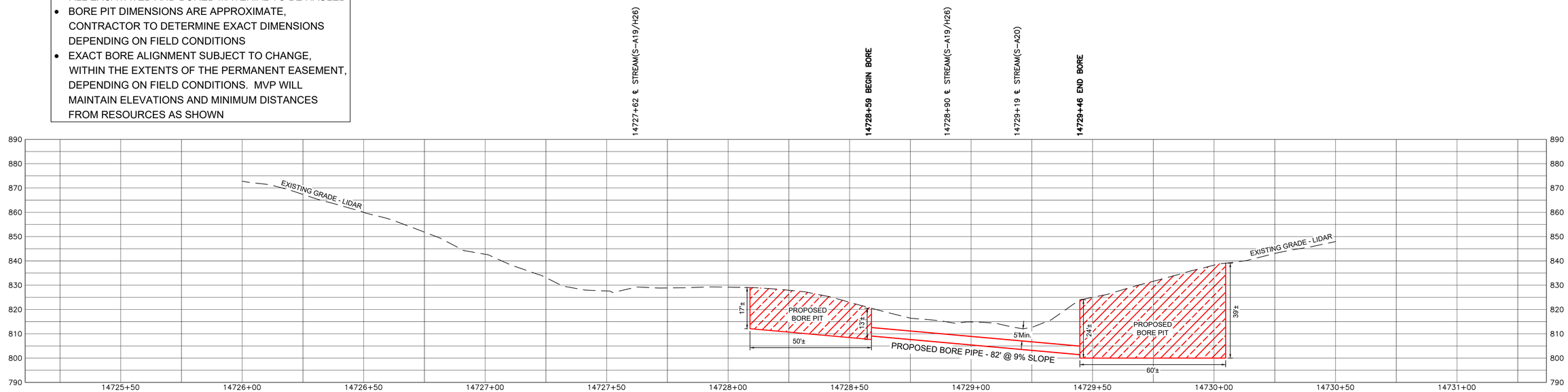

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- MAILBOX
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- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-34	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	01/19/21	PRELIMINARY FOR REVIEW
1	HEI	02/16/21	ISSUED FOR VARIANCE

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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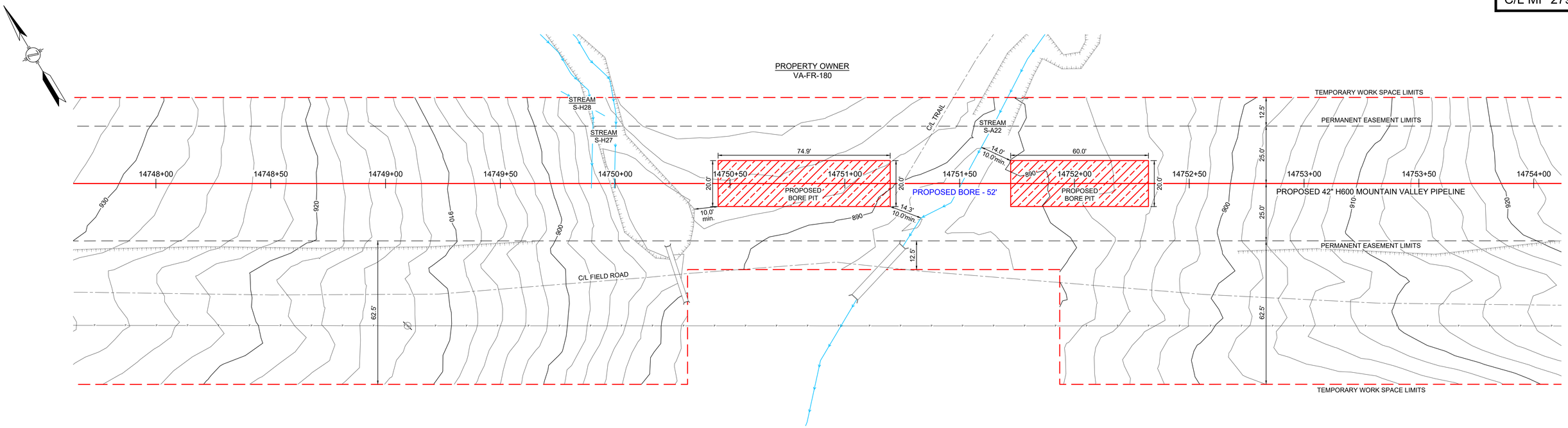
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

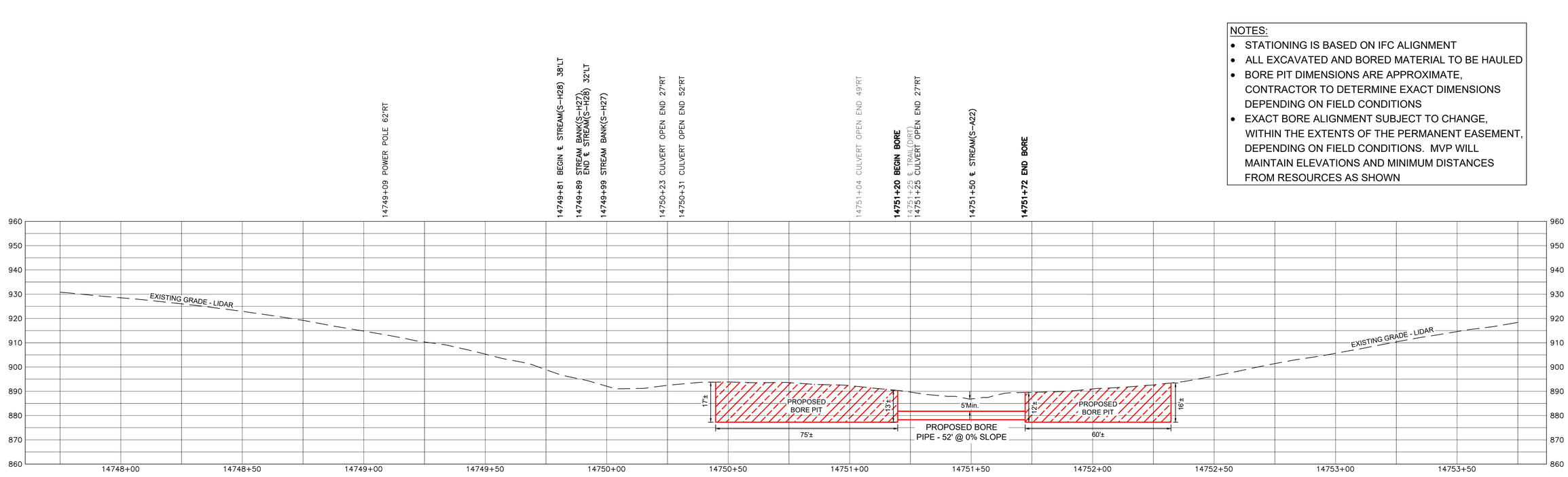
VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	1/19/2021
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-183
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	2/16/2021 10:41 AM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14726+00 TO 14730+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 279.18





NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-35	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/16/21	ISSUED FOR VARIANCE

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
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www.hollandengineering.com

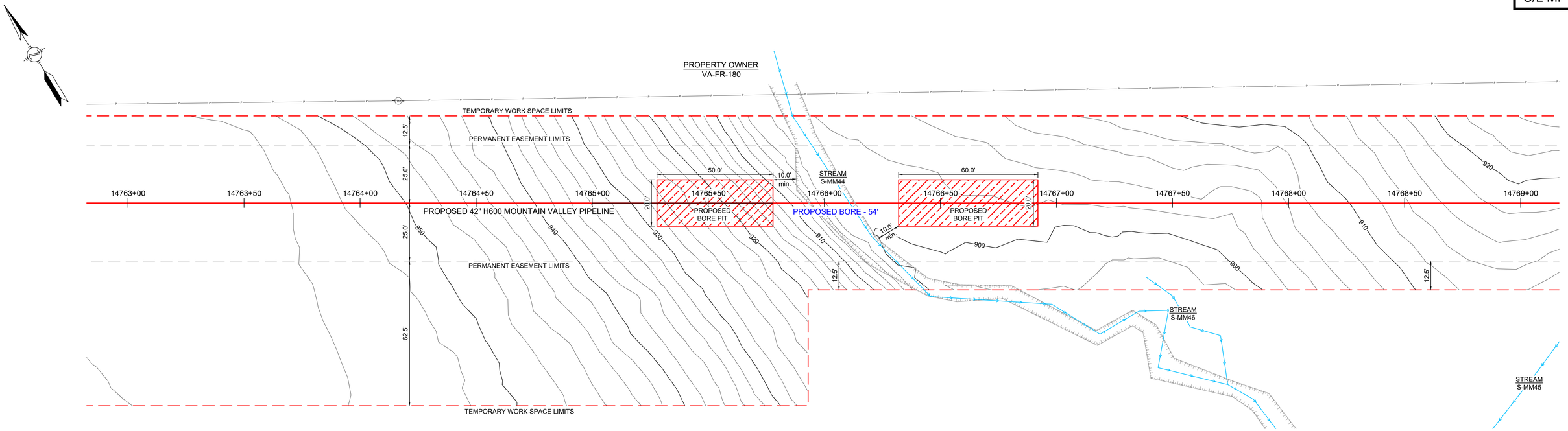
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

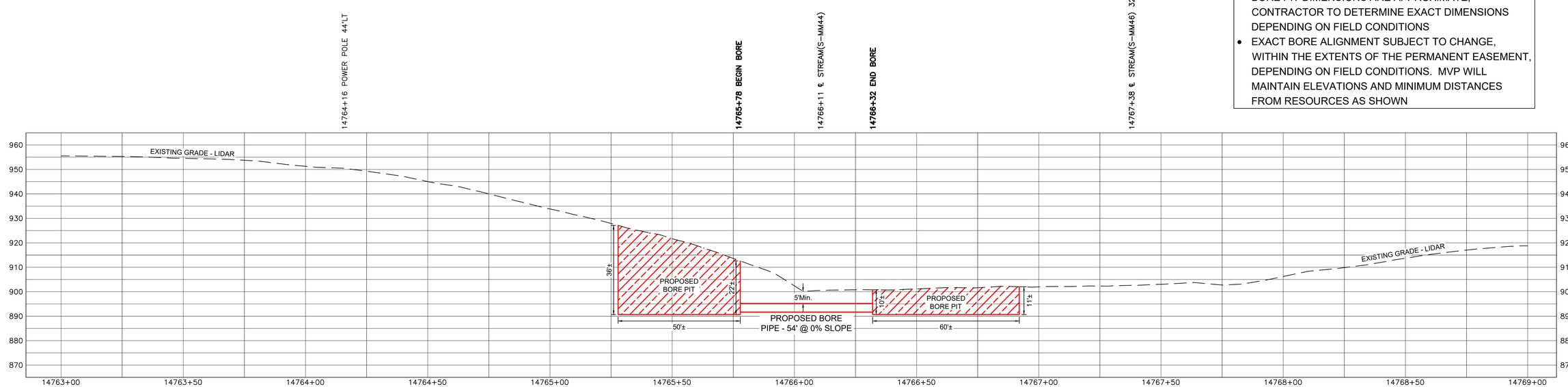
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.: PP-H600-184	
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/16/2021 10:46 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14747+75 TO 14753+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 279.48





NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-35	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
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Southfield, Michigan 48076
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www.hollandengineering.com

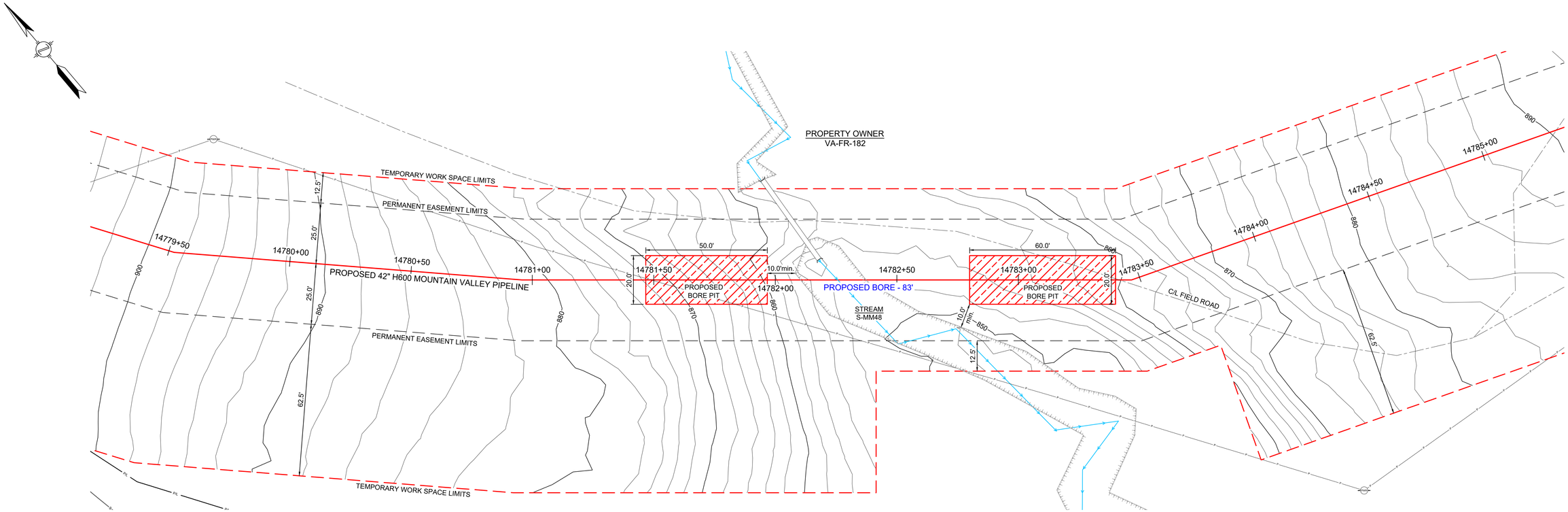
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-185	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 10:26 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14763+00 TO 14769+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 279.78



NOTES:

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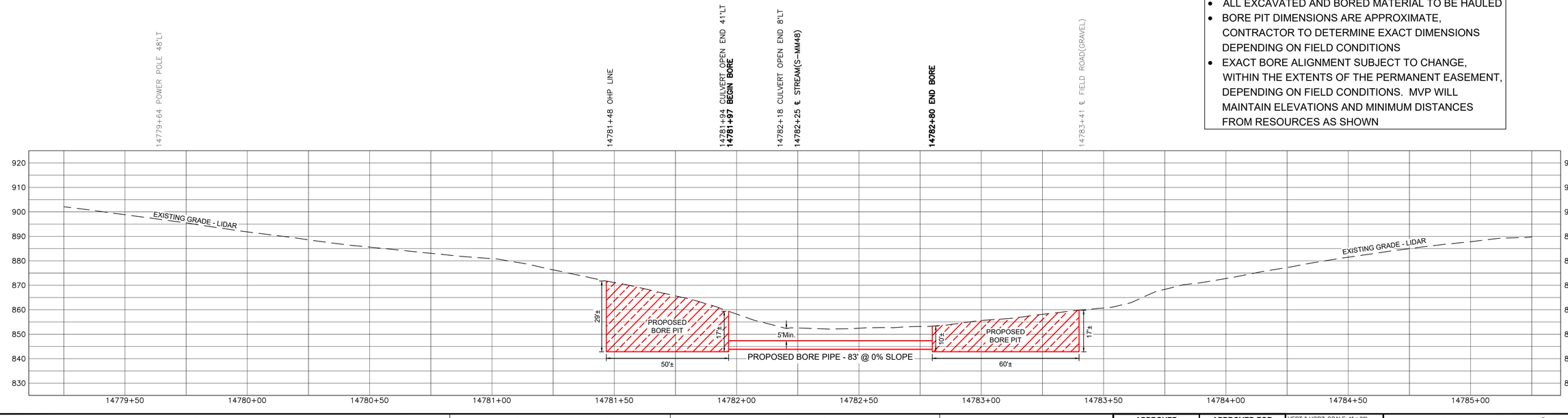

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-35	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/08/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
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www.hollandengineering.com

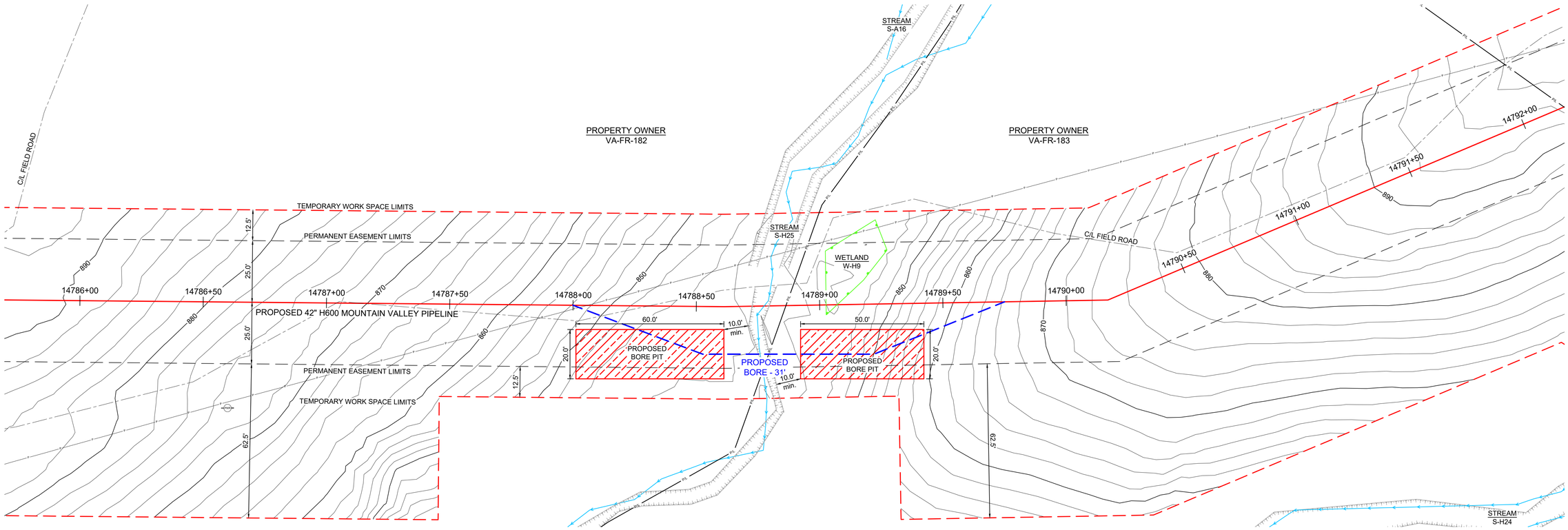
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

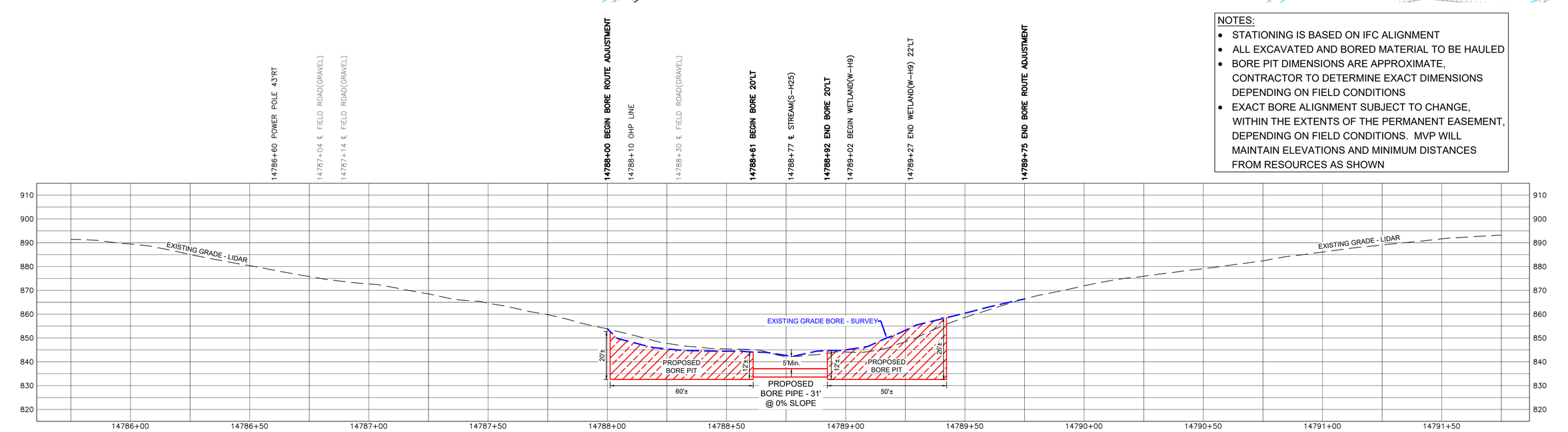
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.: PP-H600-186	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/8/2020 8:40 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14779+25 TO 14785+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 279.90





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- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-35	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/19/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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26555 Evergreen Rd. Suite. 430
Southfield, Michigan 48076
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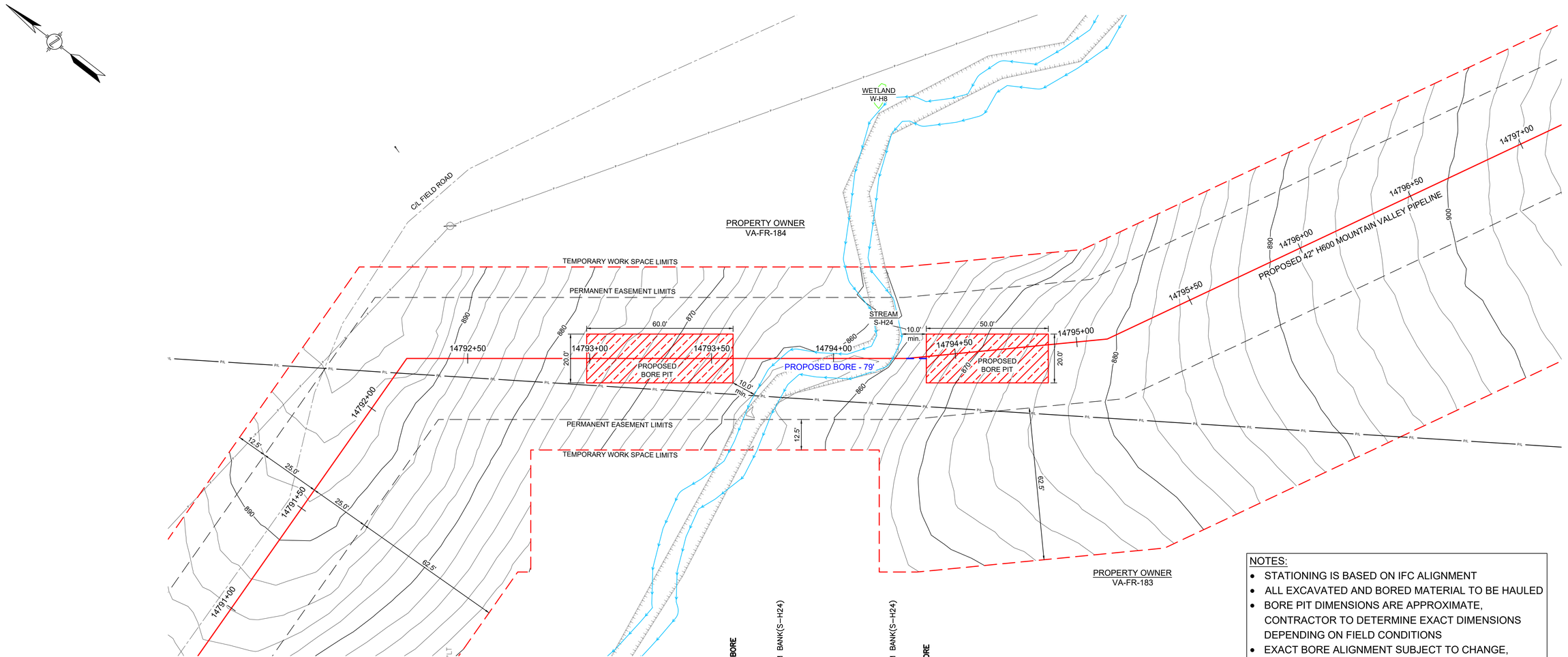
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

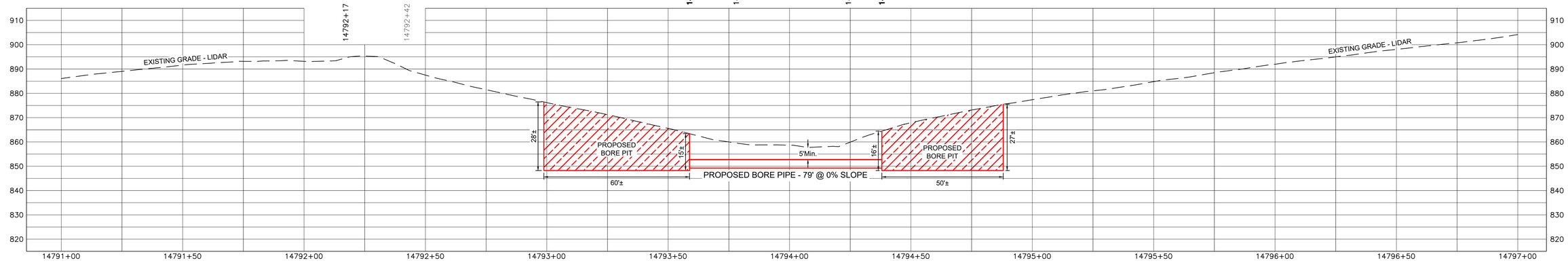
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/19/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-187
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/16/2020 8:00 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14785+75 TO 14791+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 280.00





NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-35	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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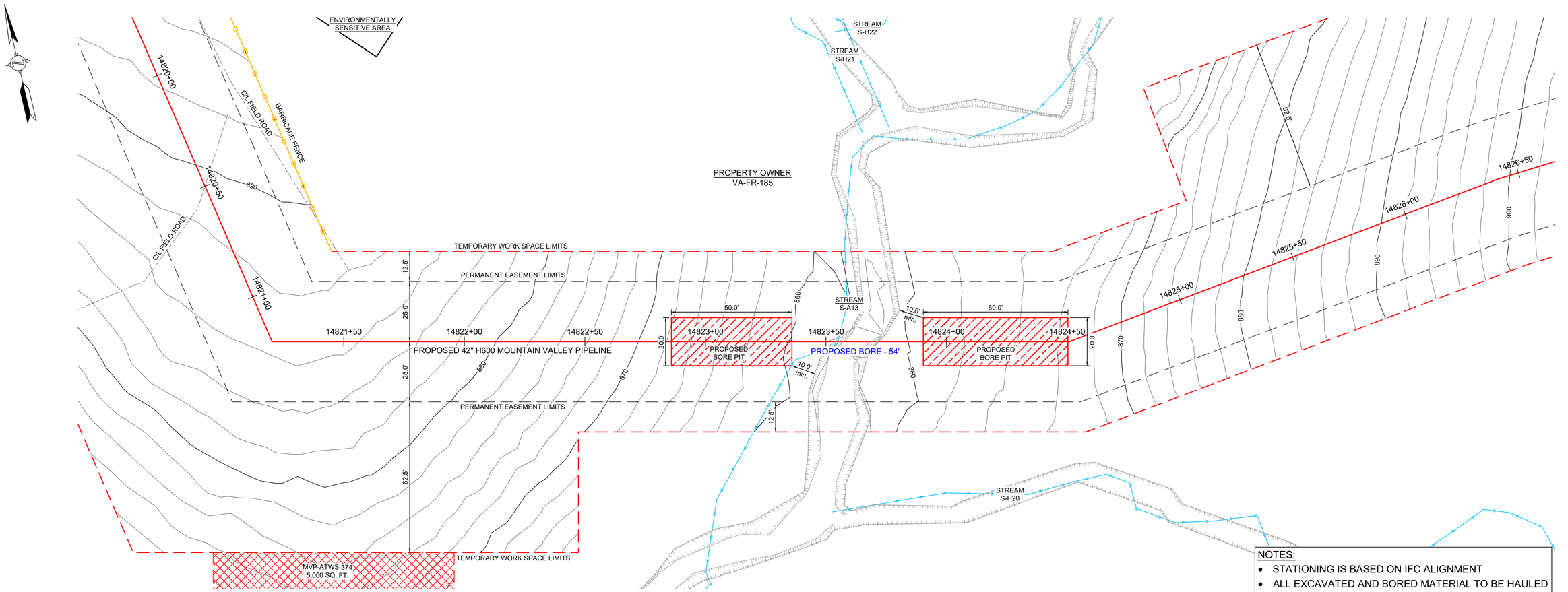
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

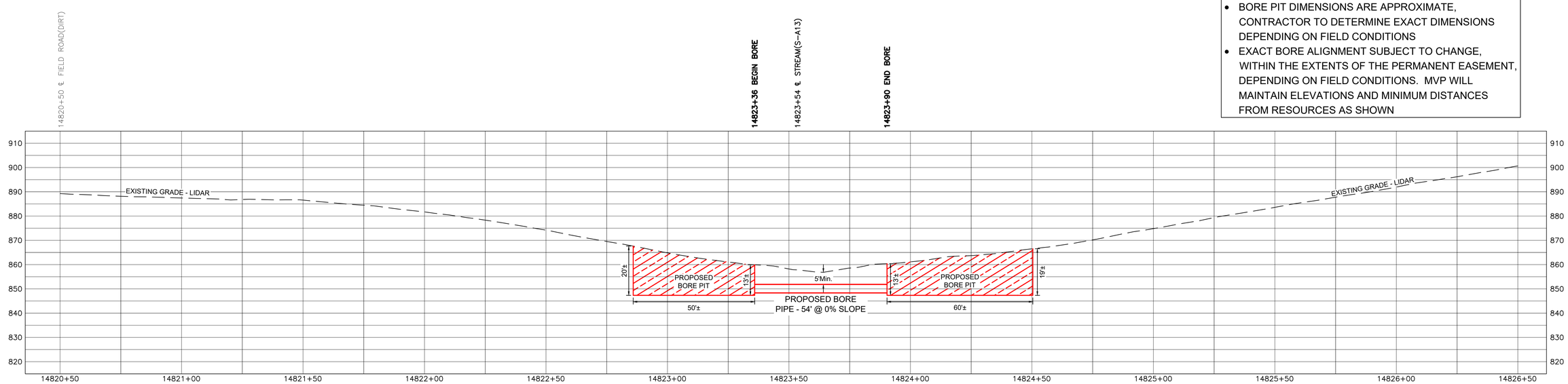
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-188
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/16/2020 8:23 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14791+00 TO 14797+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 280.57





LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-36	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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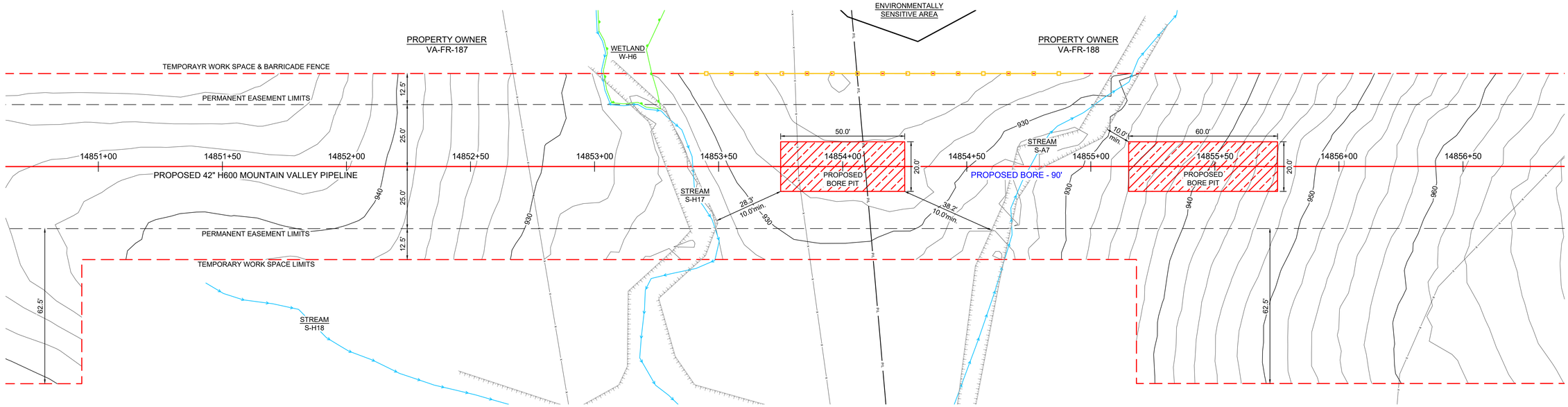
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-190	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/16/2020 5:04 PM	

Mountain Valley PIPELINE

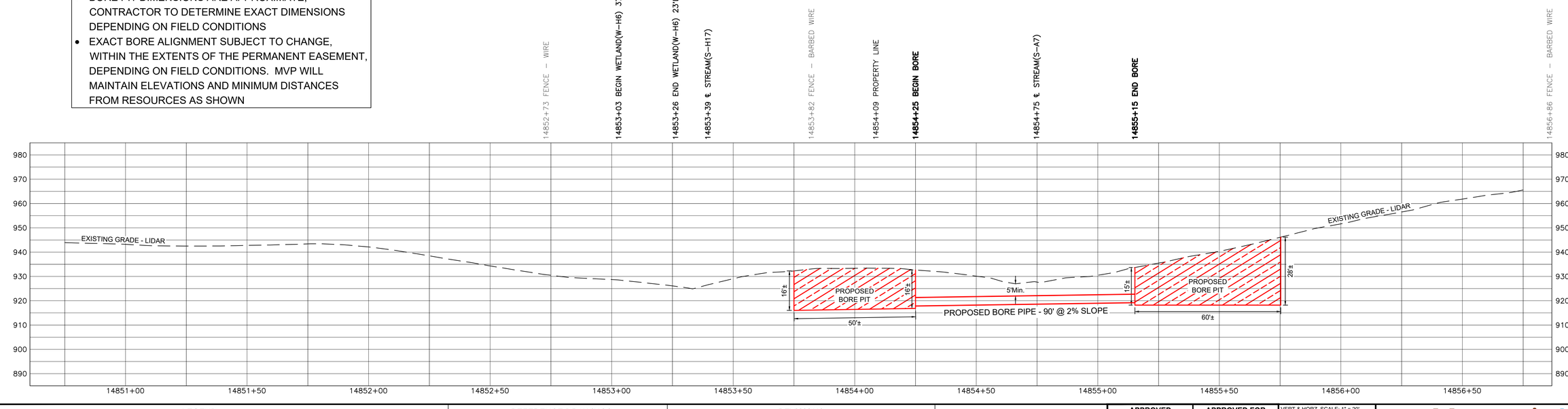
PLAN & PROFILE
STATION 14820+50 TO 14826+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 281.15



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-36	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/02/21	ISSUED FOR VARIANCE REQUEST

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REV.	BY	DATE	REV.	BY	DATE
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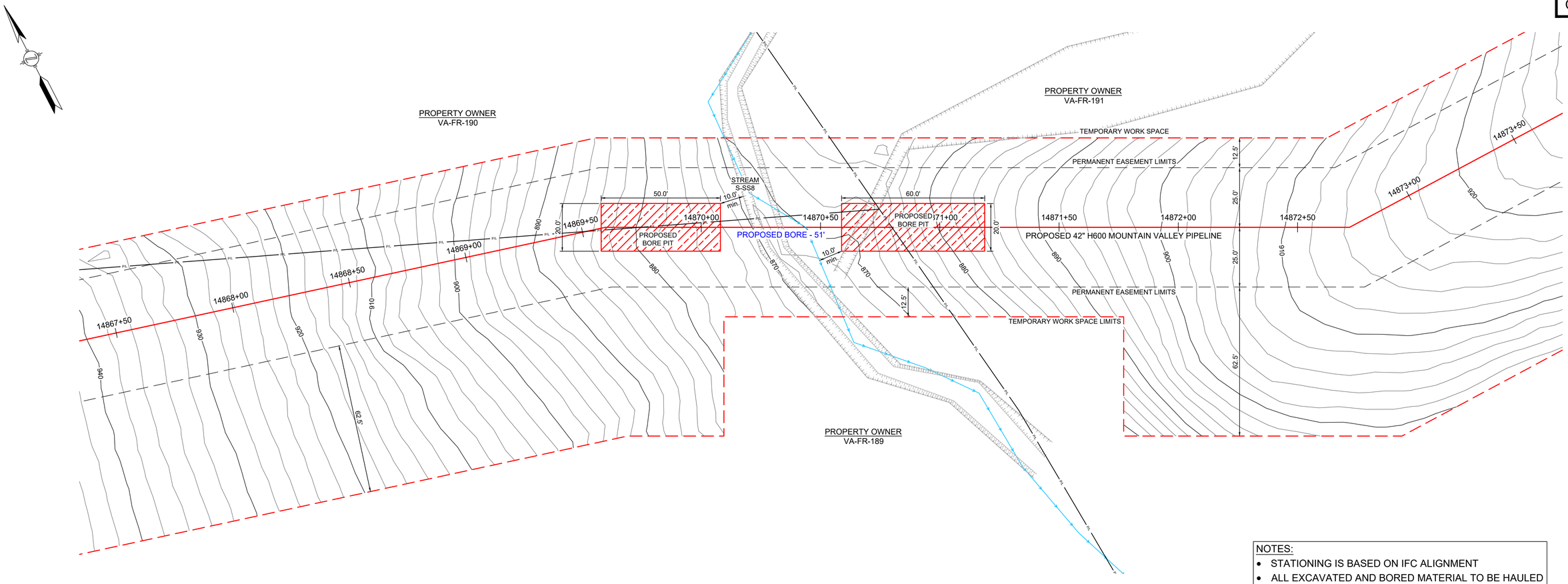
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.: PP-H600-192	
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/2/2021 10:22 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14850+75 TO 14856+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 281.46



NOTES:

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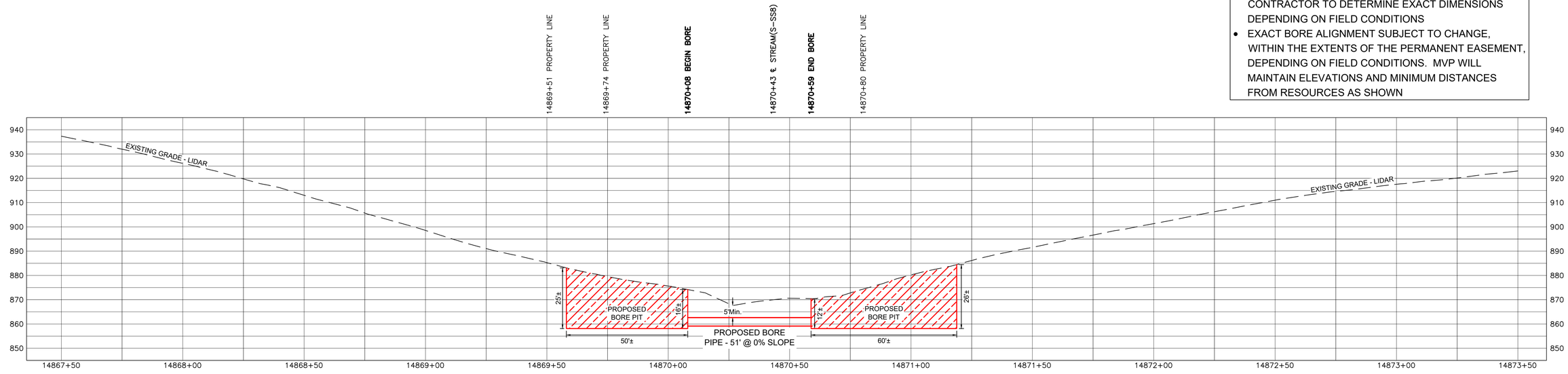

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-37	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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REV.	BY	DATE	REV.	BY	DATE
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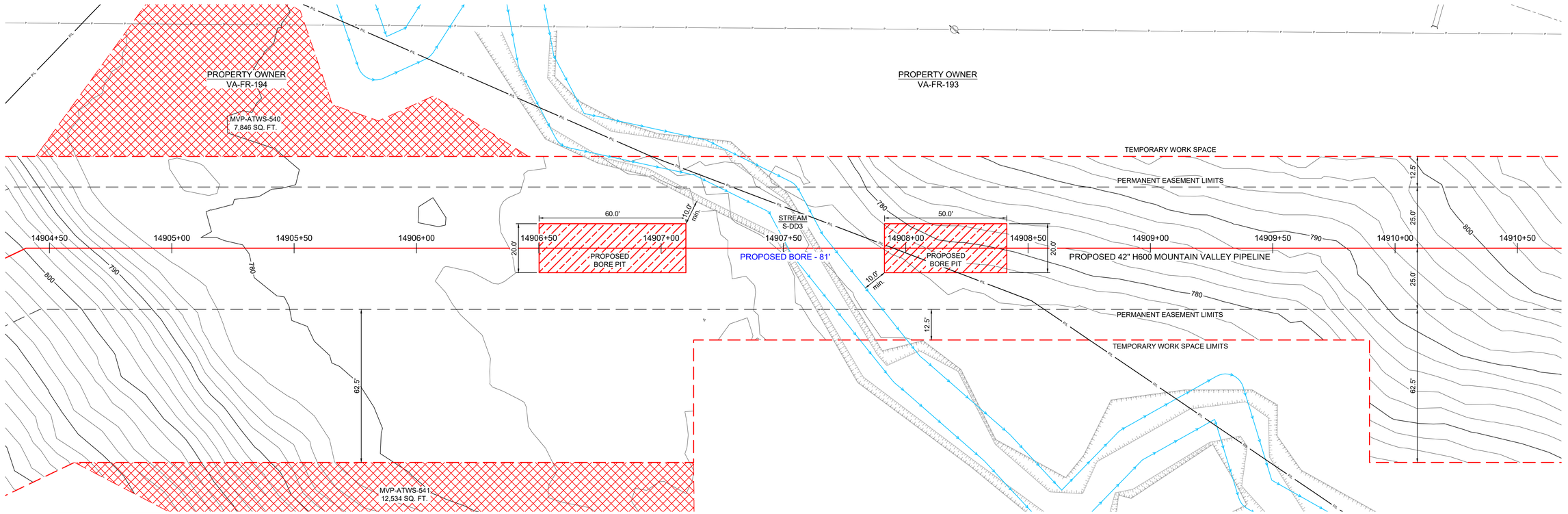
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-193
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/16/2020 5:05 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14867+50 TO 14873+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 282.16



NOTES:

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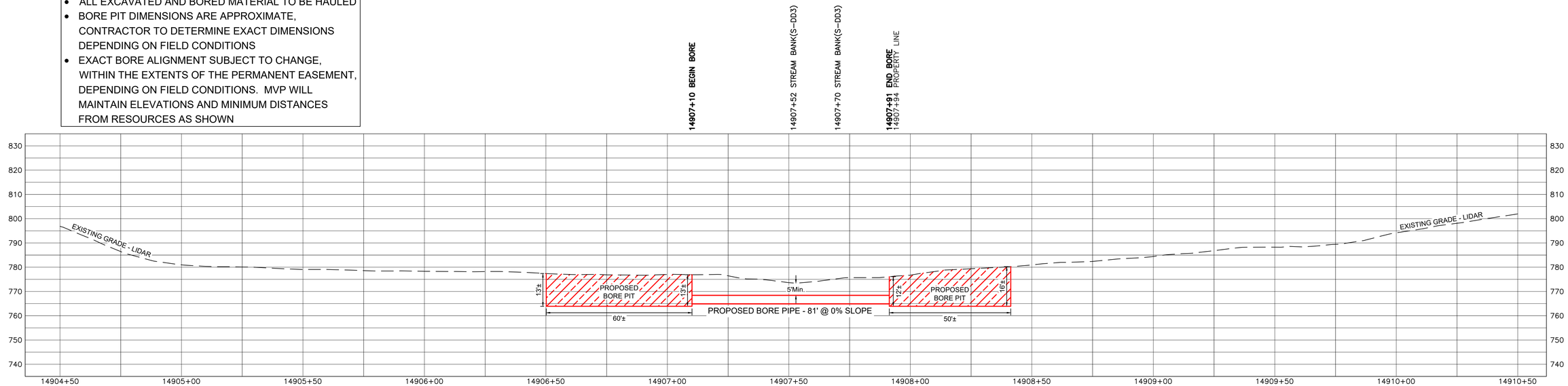
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-37	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/16/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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REV.	BY	DATE	REV.	BY	DATE
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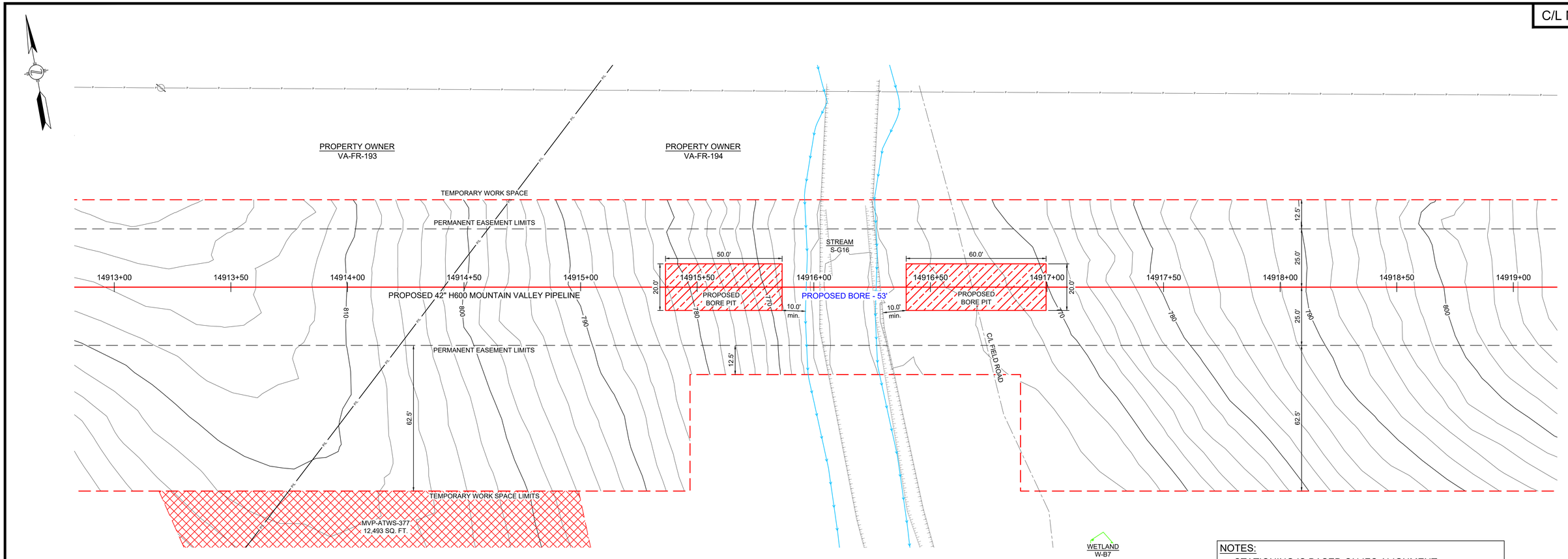
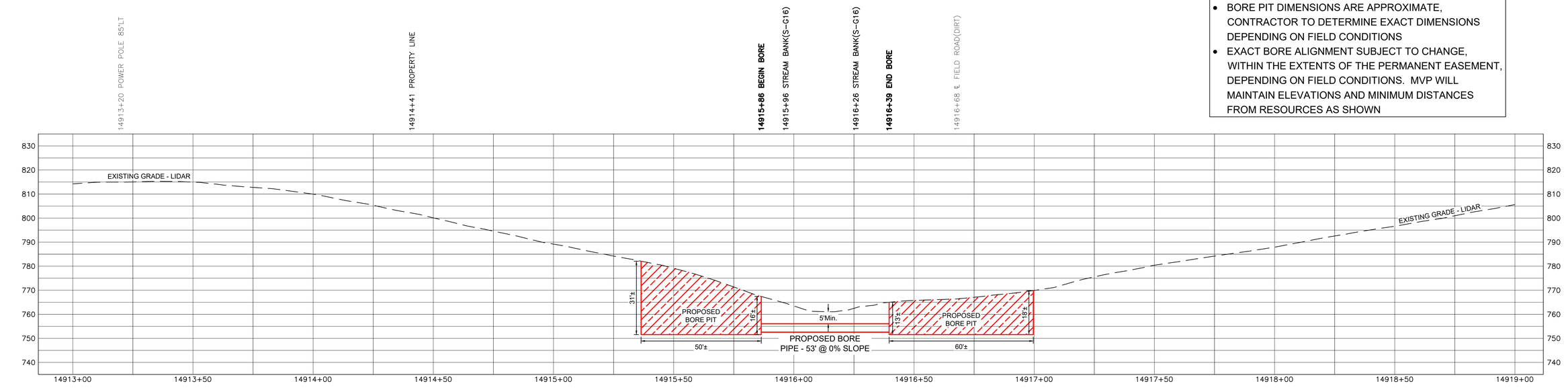
VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-196
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	6/16/2020 5:07 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14904+50 TO 14910+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 282.32





NOTES:

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LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-37	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/18/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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REV.	BY	DATE	REV.	BY	DATE
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VERT & HORZ. SCALE: 1" = 20'	
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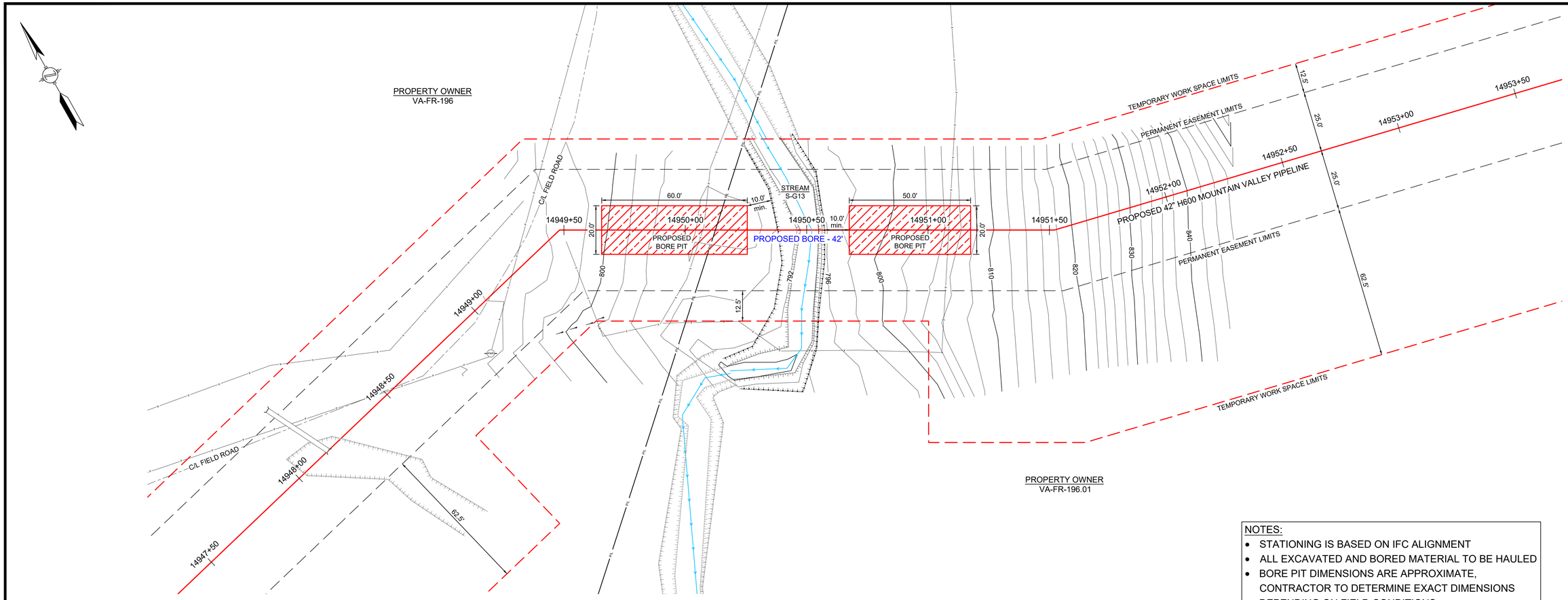
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-197
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/17/2020 4:32 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14913+00 TO 14919+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 282.29



NOTES:

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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
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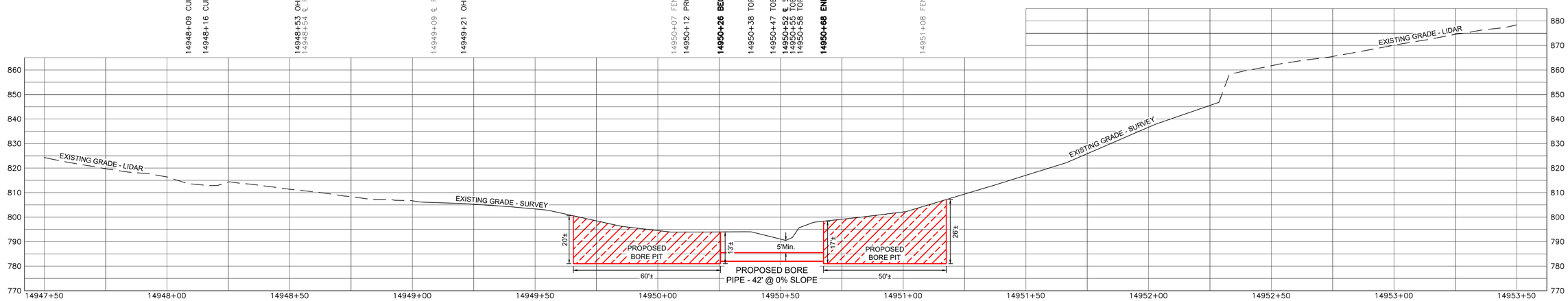

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-FRVA-H600-38	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/06/20	PRELIMINARY FOR REVIEW
1	HEI	06/25/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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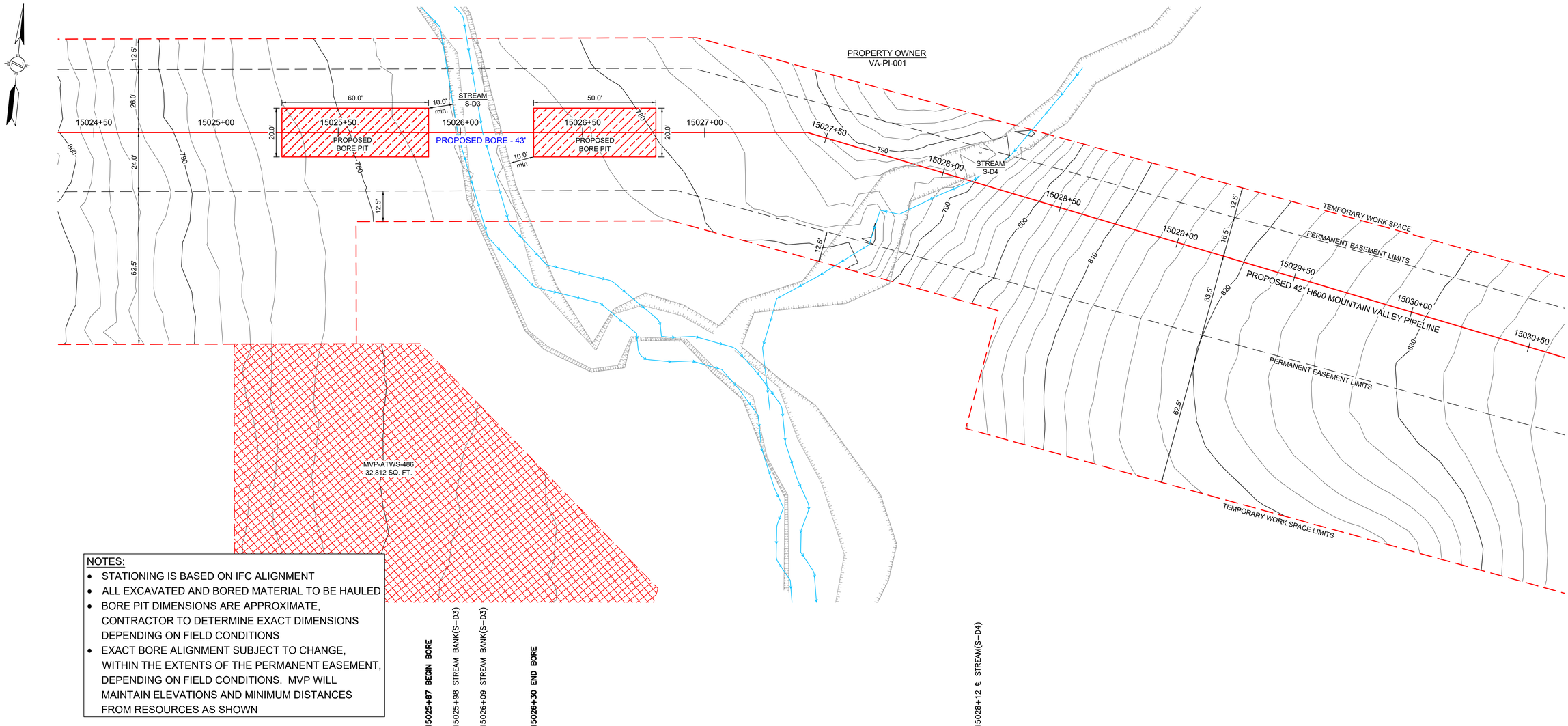
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/06/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-078
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/25/2020 1:56 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 14947+50 TO 14953+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
FRANKLIN COUNTY, VIRGINIA

C/L MP 284.42



NOTES:

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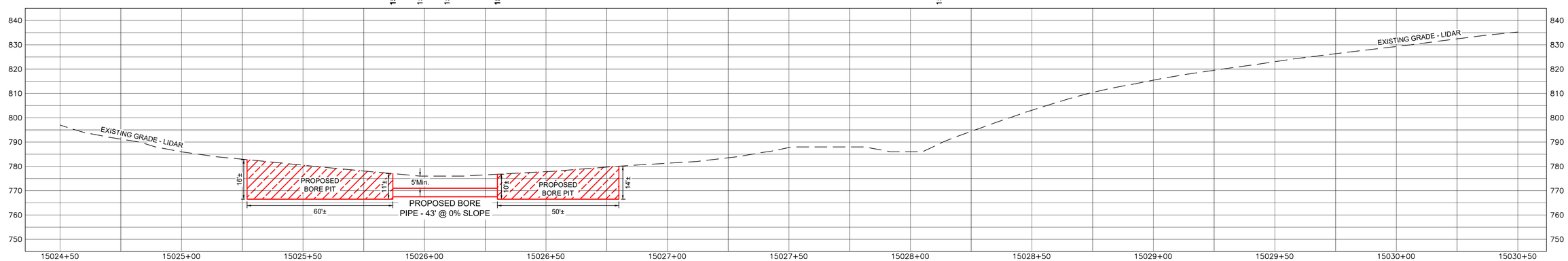
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-01	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/18/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/16/21	ISSUED FOR VARIANCE

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
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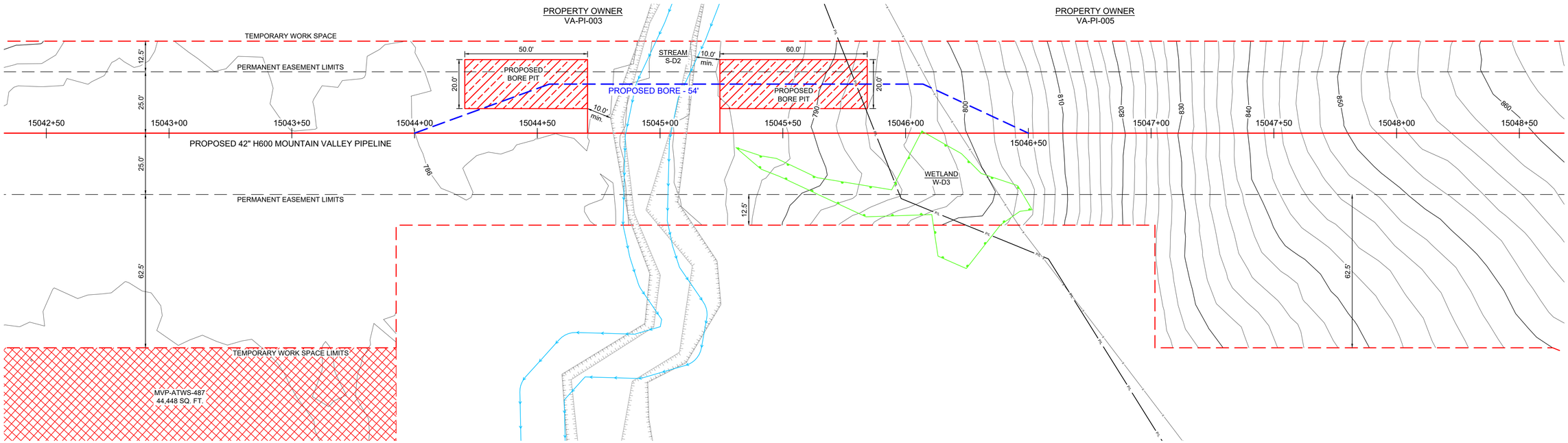
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-200
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/16/2021 10:50 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15024+50 TO 15030+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 284.77



NOTES:

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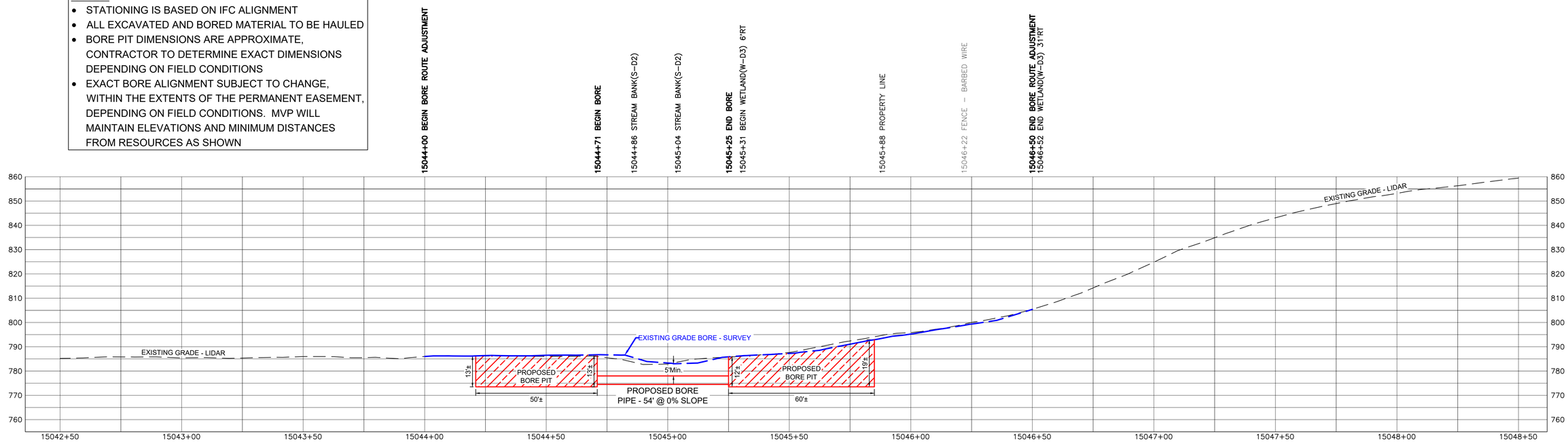

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-01	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/18/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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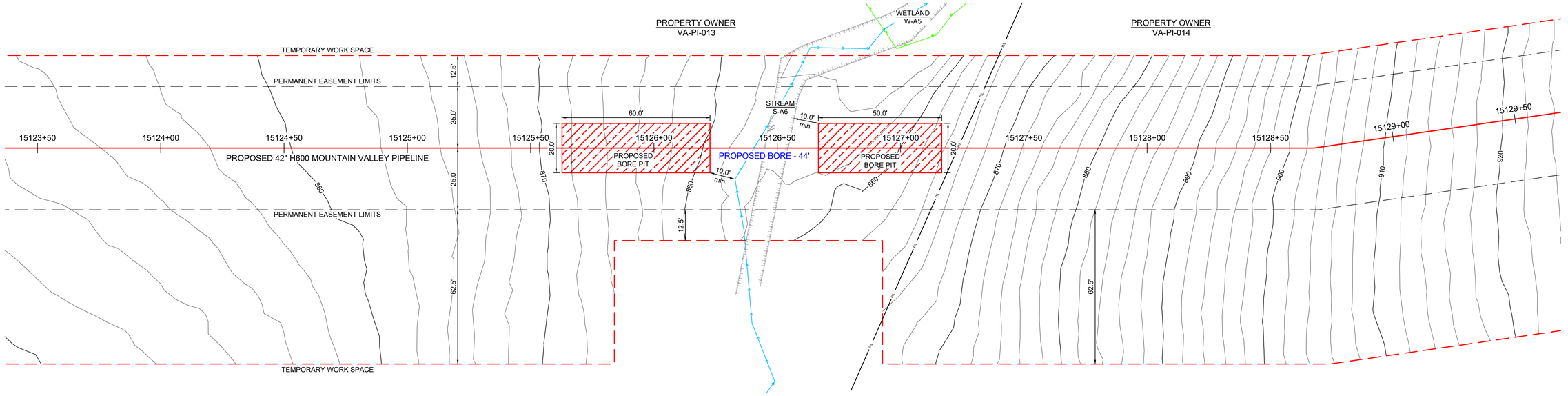
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-201
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/18/2020 7:45 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15042+50 TO 15048+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 286.30



NOTES:

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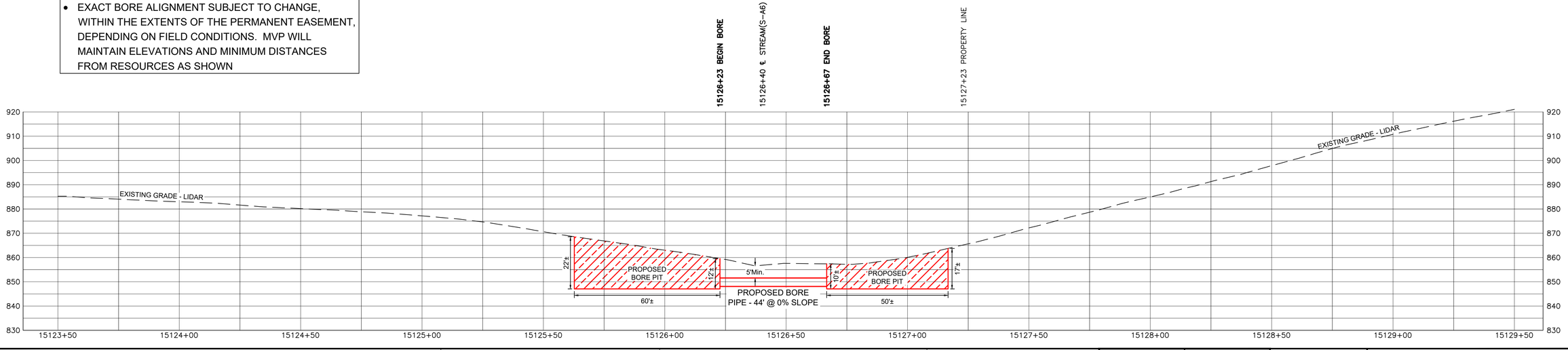

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
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- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PI\VA-H600-03	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/18/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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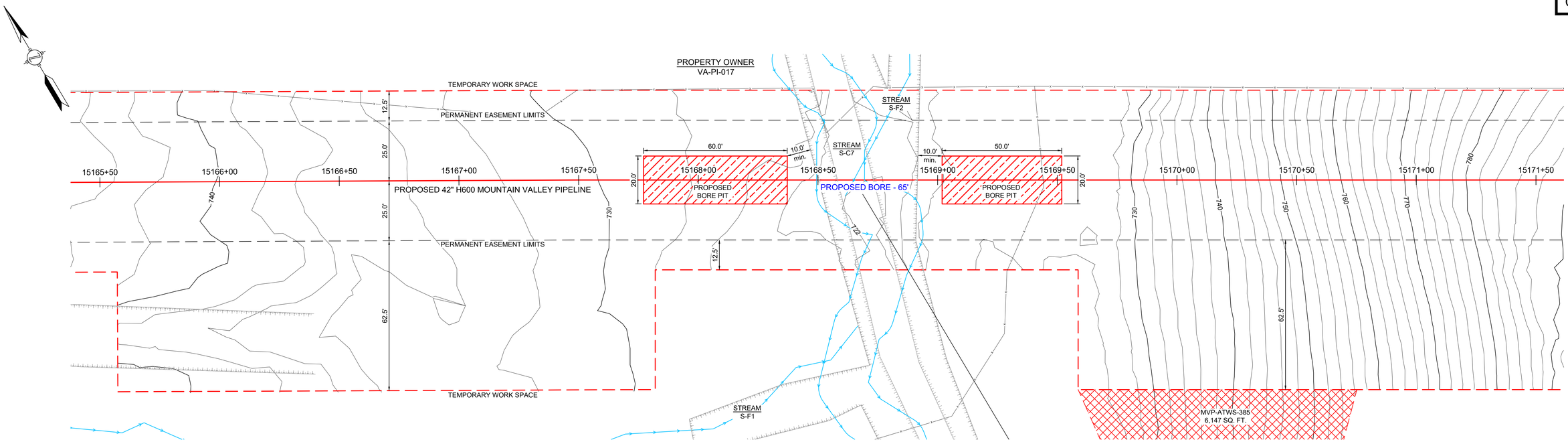
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	-/-/-	-	....	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	
PP-H600-206	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/18/2020 9:28 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15123+50 TO 15129+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 287.10



NOTES:

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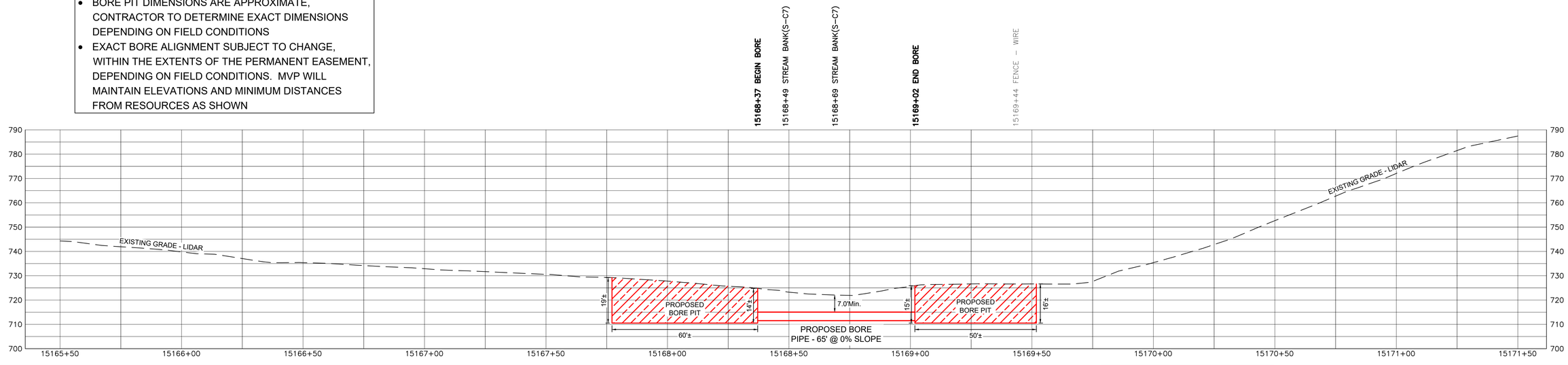

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-03	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	01/15/21	REVISED MINIMUM(Min.) DEPTH TO MATCH SCOUR REQUIREMENTS

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220 Hoover Boulevard, Suite 2
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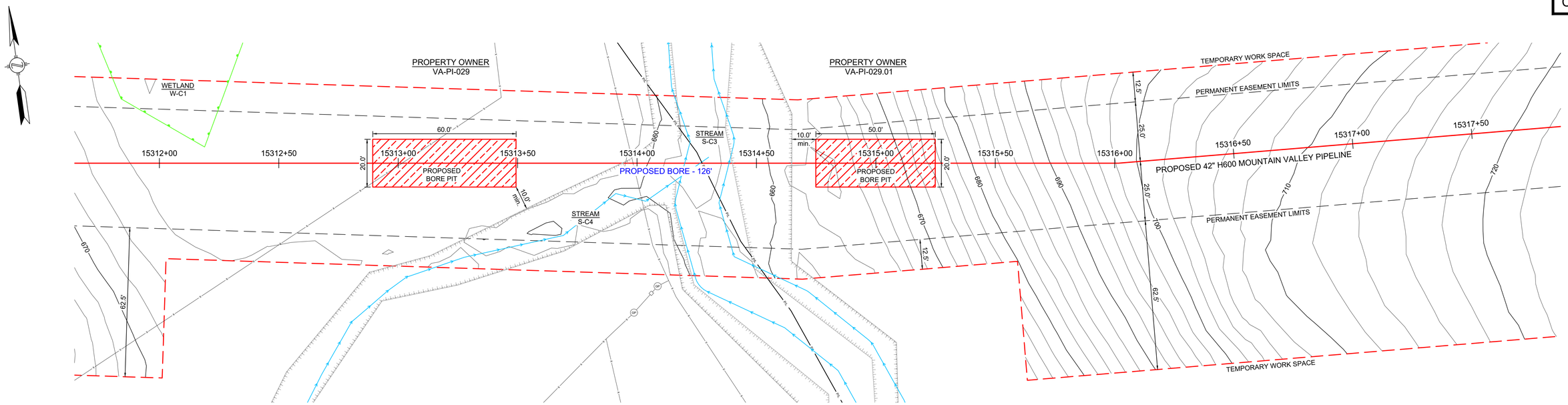
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-207	
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 1/15/2021 2:01 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15165+50 TO 15171+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 289.86



NOTES:

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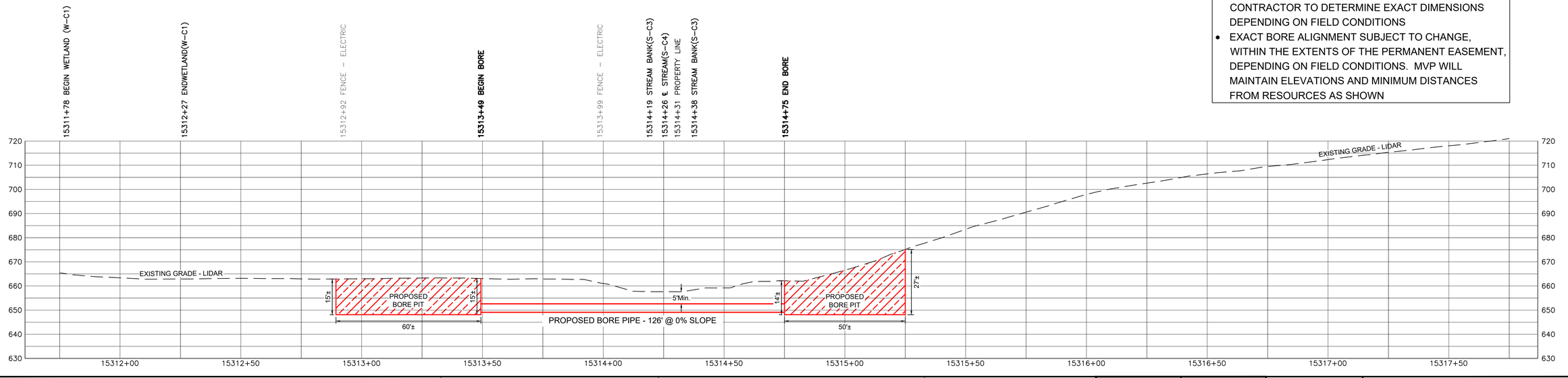

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PI\VA-H600-06	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/20/20	PRELIMINARY FOR REVIEW
1	HEI	06/##/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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Southfield, Michigan 48076
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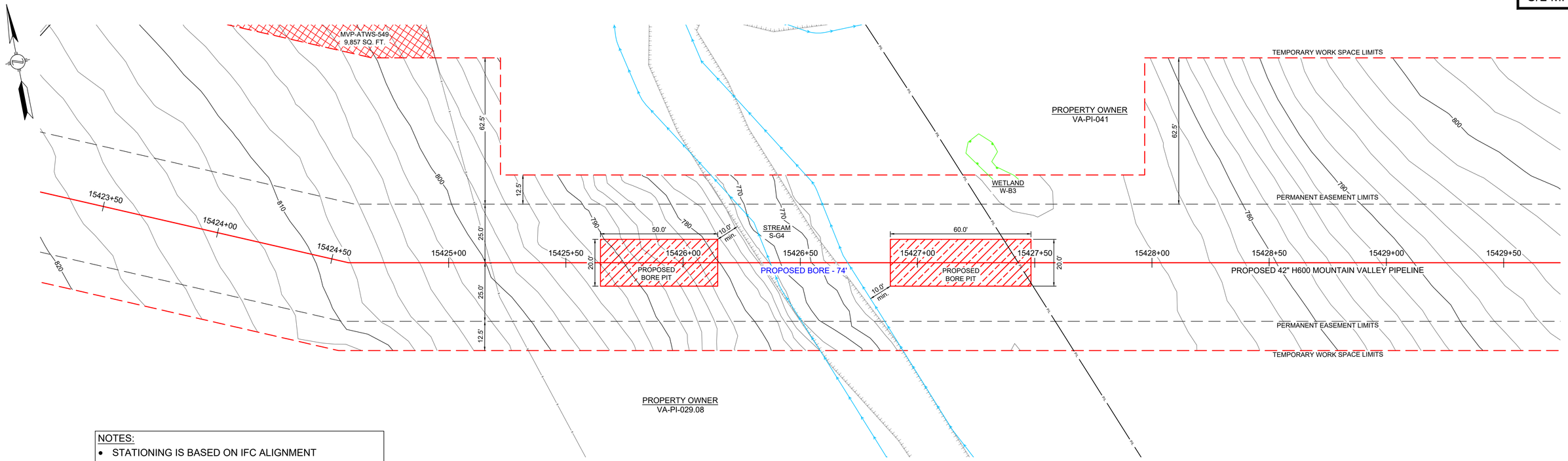
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/20/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-208
SHEET 1 OF 1	REV. 0
DATE OF PLOT: 6/19/2020 8:12 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15311+75 TO 15317+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 291.98



NOTES:

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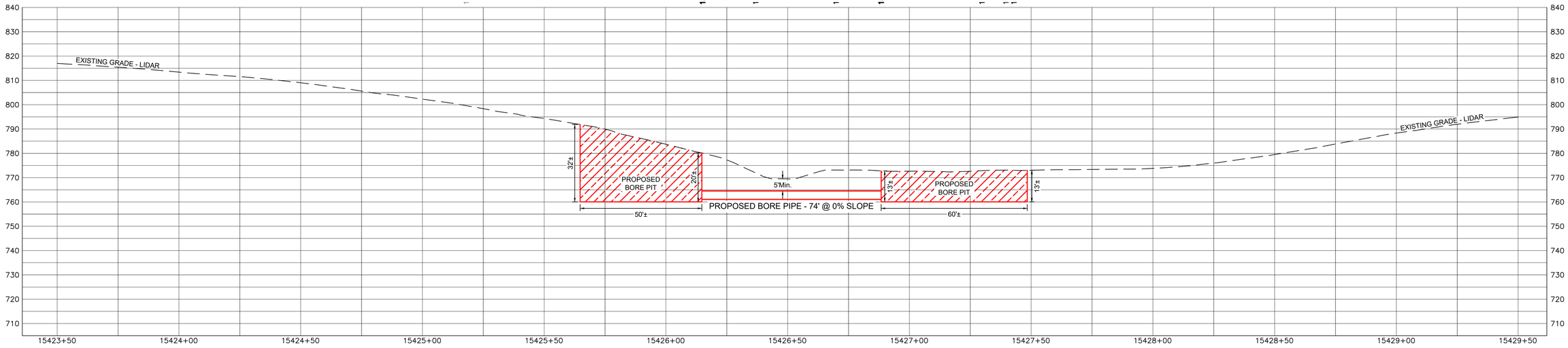
15425+17 FENCE – BARBED WIRE
15426+15 BEGIN BORE
15426+37 STREAM BANK(S–G4)
15426+70 STREAM BANK(S–G4)
15428+89 END BORE
15427+30 BEGIN WETLAND(W–B3) 38'LT
15427+42 PROPERTY LINE
15427+43 END WETLAND(W–B3) 35'LT



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-08	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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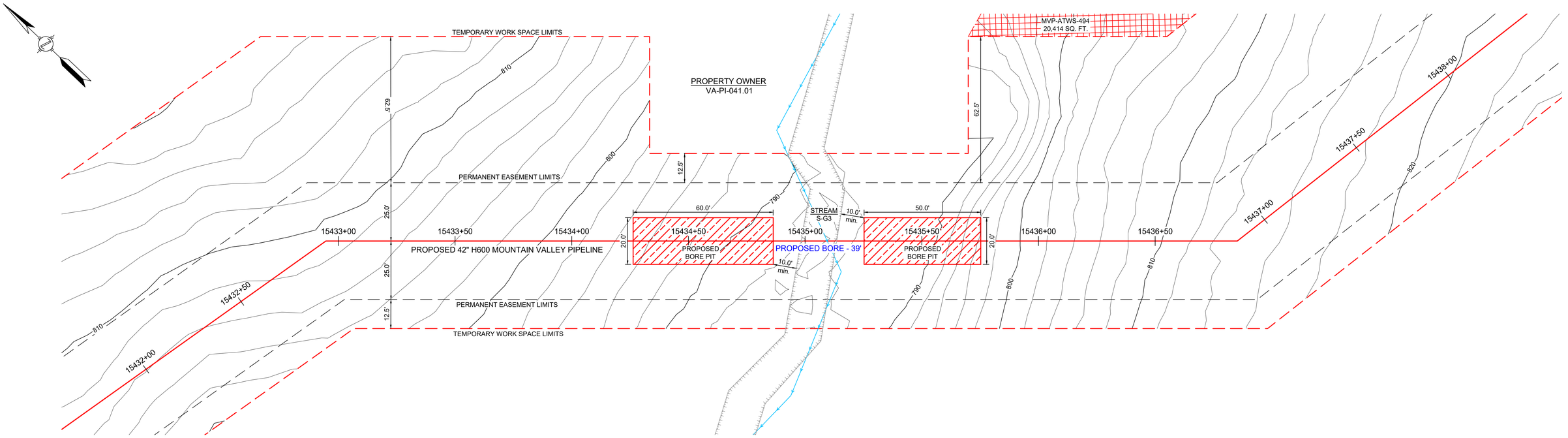
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-212	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/23/2020 2:41 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15423+50 TO 15429+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 292.15



NOTES:

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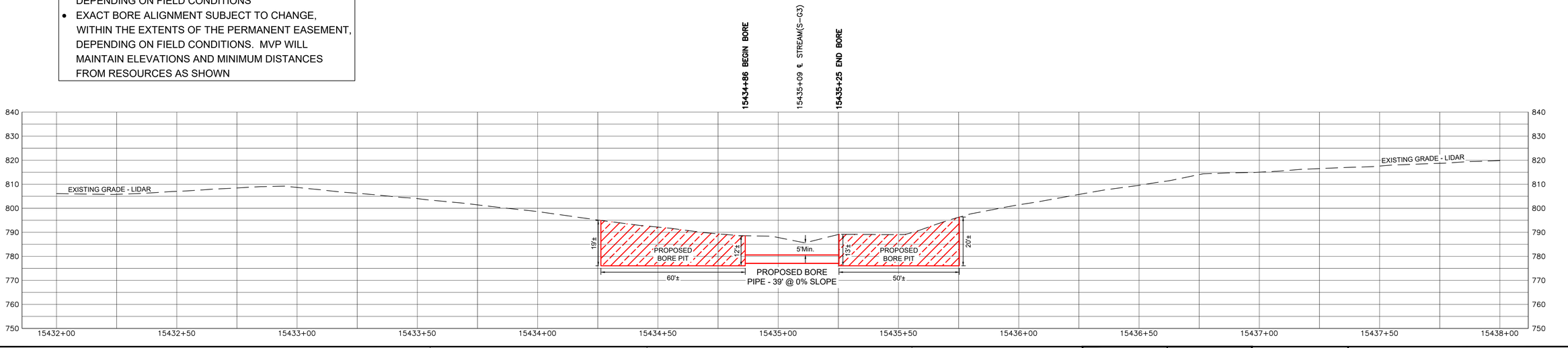

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
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PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-08	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

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Holland, Michigan 49423-3766
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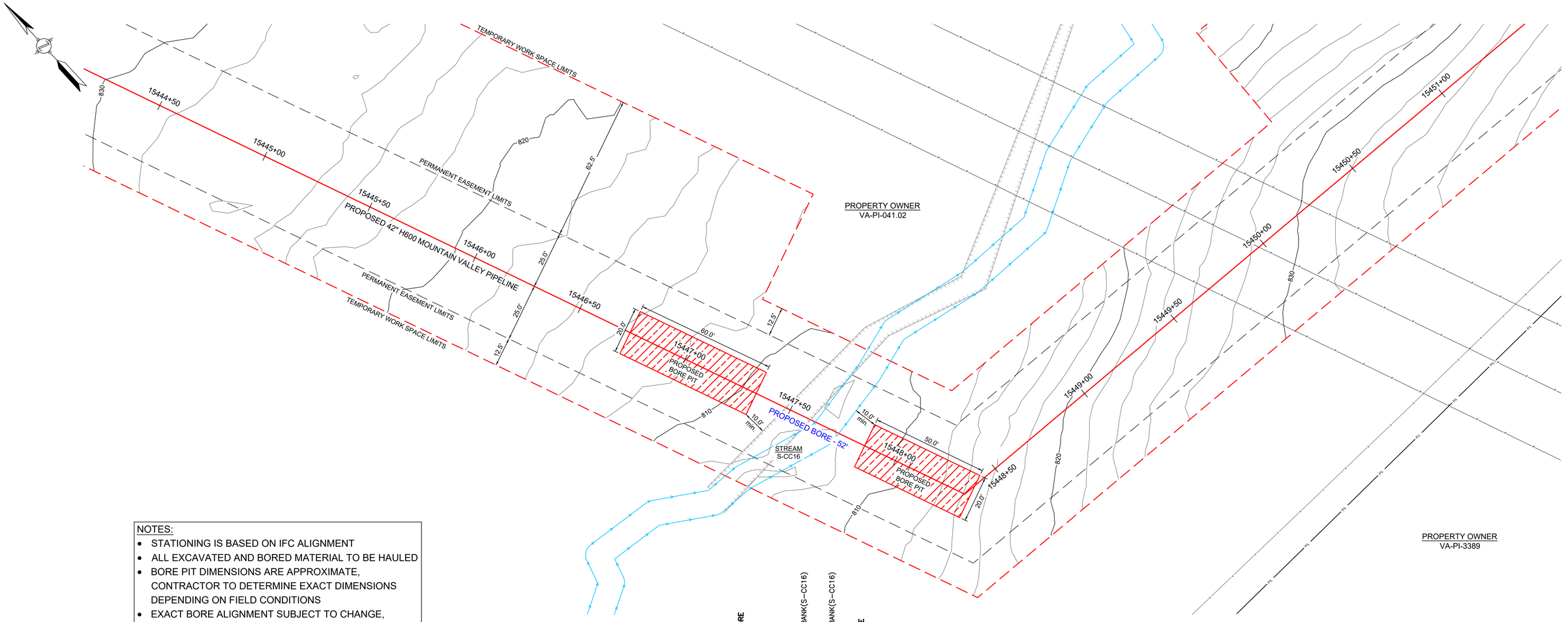
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-213
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/23/2020 2:43 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15432+00 TO 15438+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 292.38



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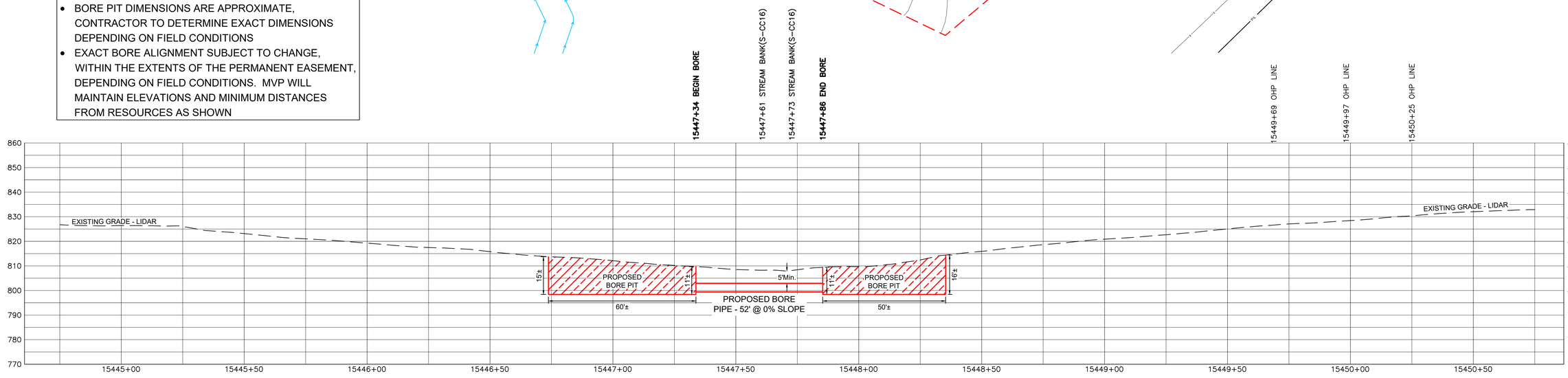

LEGEND

- PROPOSED H600 PIPELINE
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PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-08	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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26555 Evergreen Rd. Suite. 430
Southfield, Michigan 48076
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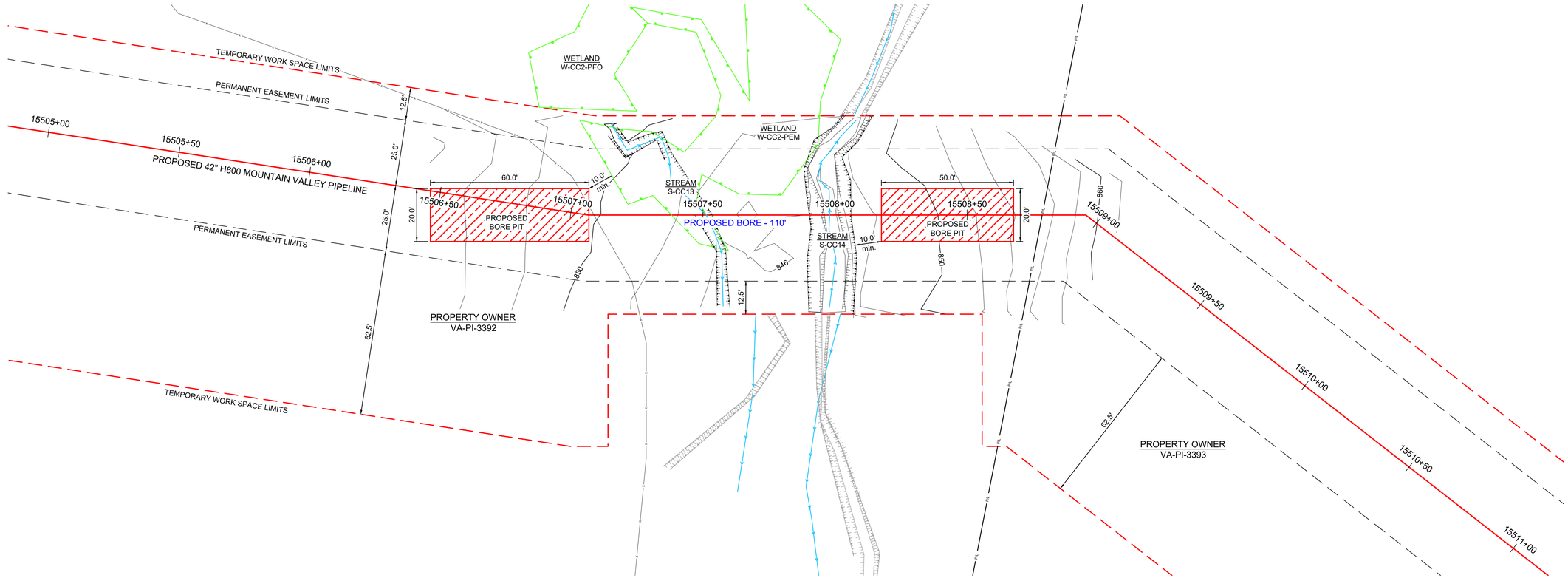
REV.	BY	DATE	REV.	BY	DATE
-	...	../../..	-	...	../../..

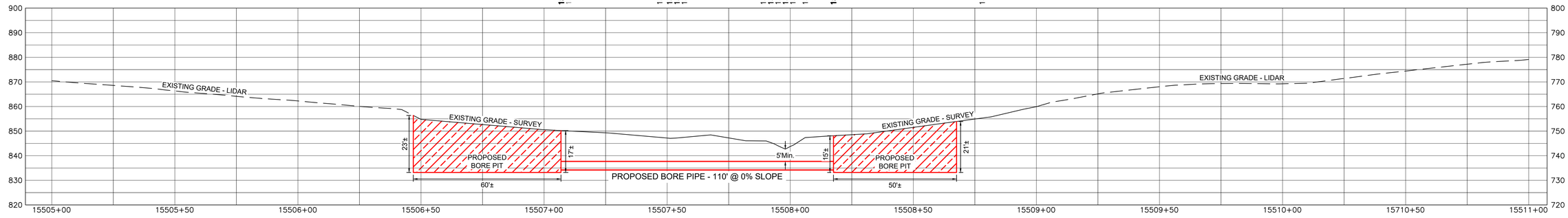
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-214
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/19/2020 10:10 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15444+75 TO 15450+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 293.51





NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-09	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	06/25/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
T 616-392-5938 F 616-392-2116
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Southfield, Michigan 48076
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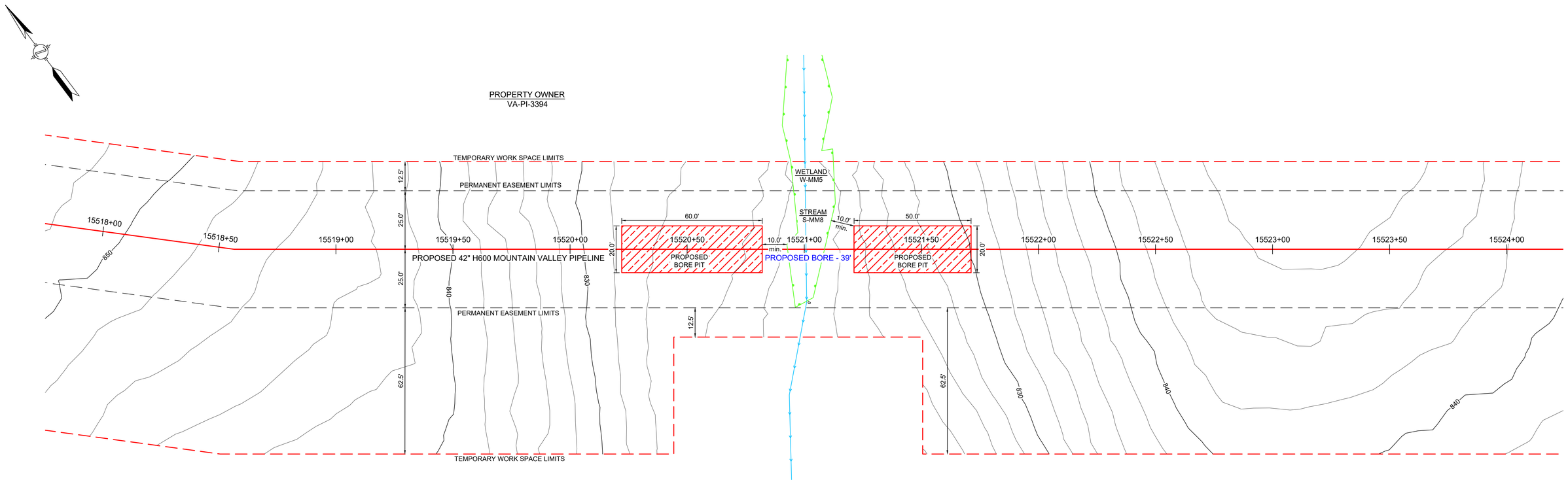
REV.	BY	DATE	REV.	BY	DATE
	---	-/-/-		---	-/-/-

VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-079
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	6/25/2020 2:37 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15505+00 TO 15511+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 293.78



NOTES:

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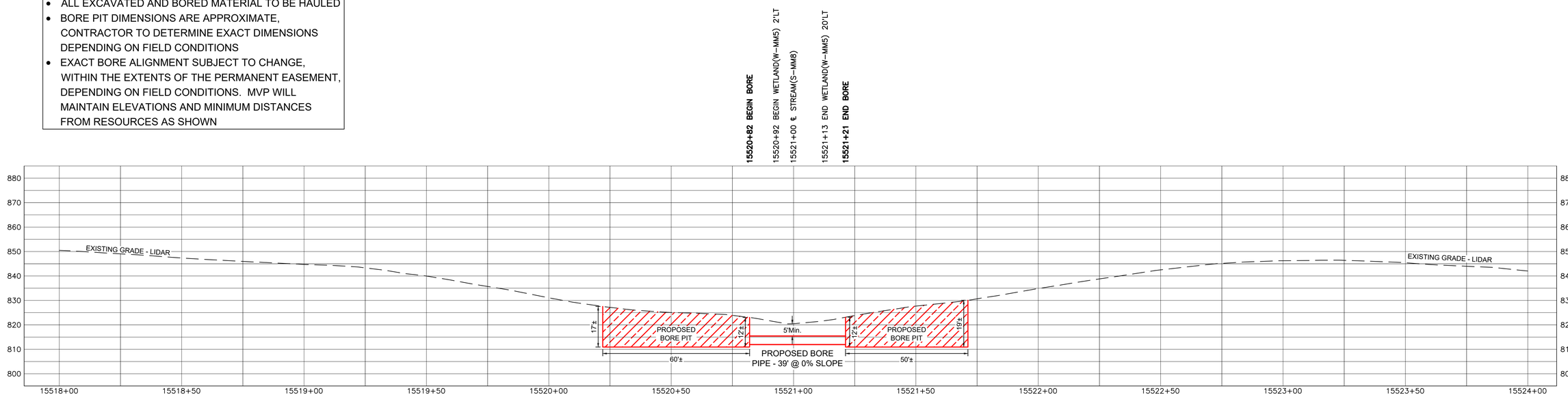
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-10	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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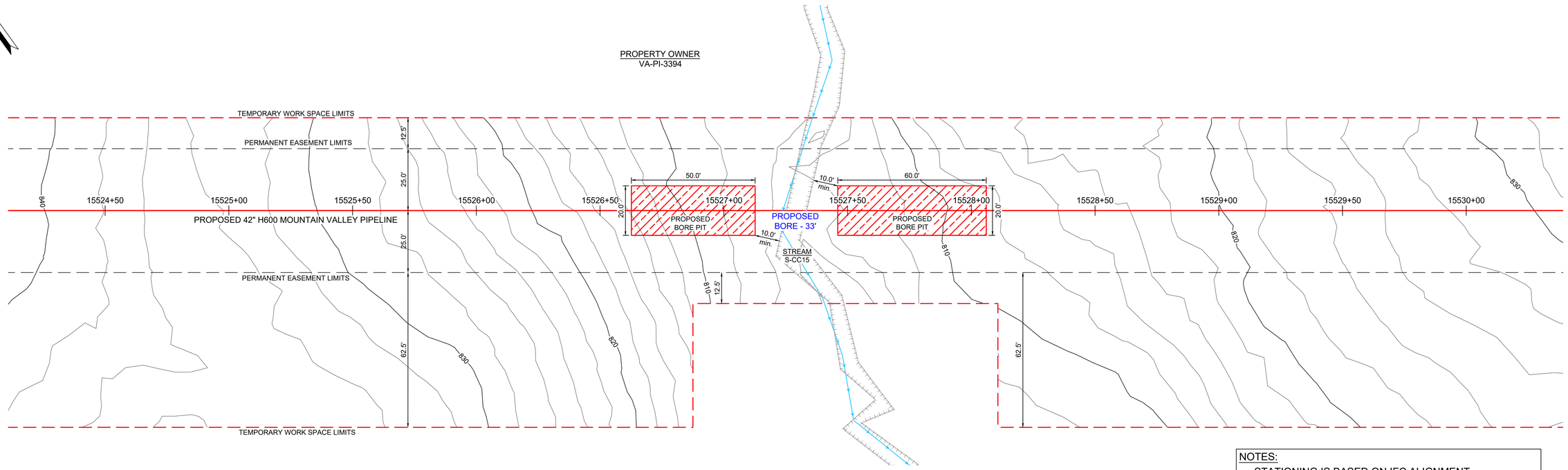
REV.	BY	DATE	REV.	BY	DATE
-	---	-/-/-	-	---	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	
PP-H600-215	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/23/2020 2:45 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15518+00 TO 15524+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 293.89



NOTES:

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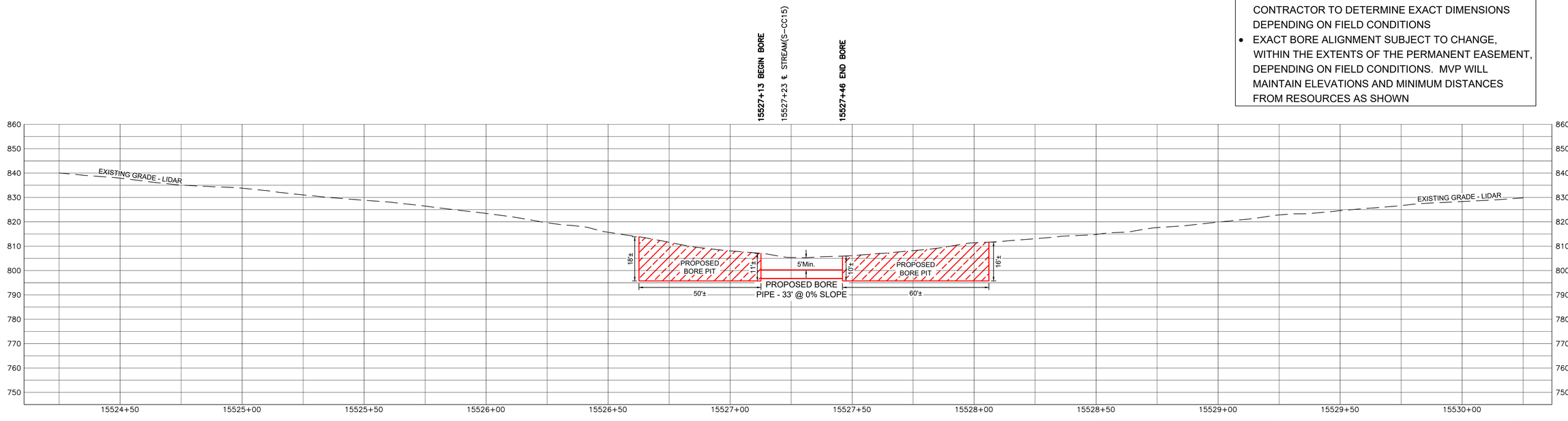
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-10	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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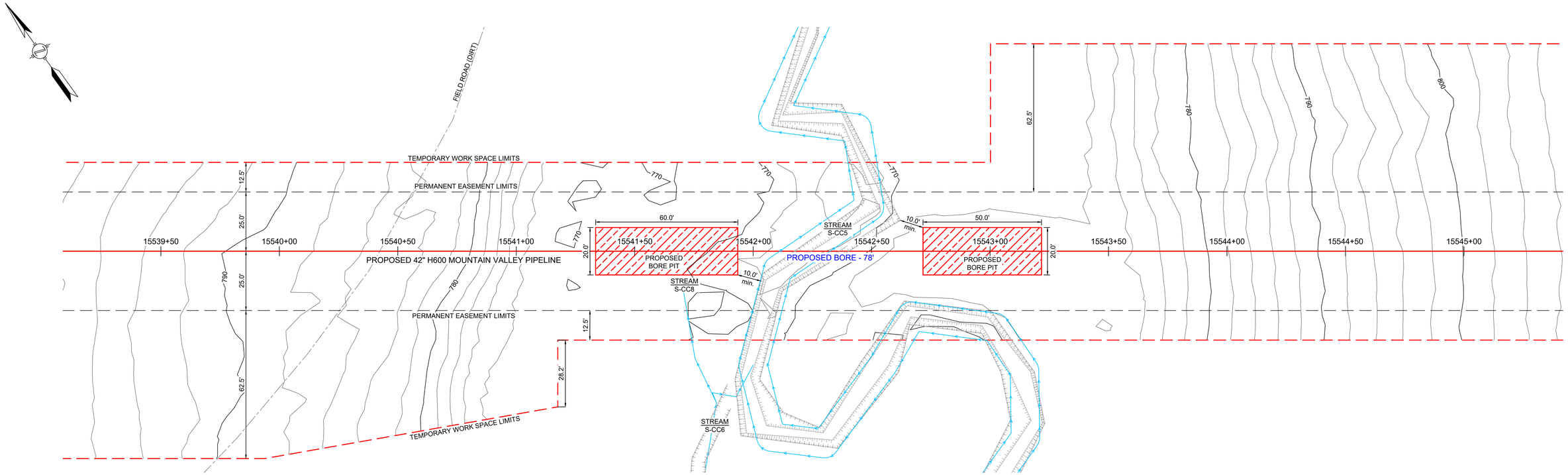
VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-216
SHEET 1 OF 1	REV. 0
DATE OF PLOT:	6/19/2020 11:04 AM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15524+25 TO 15530+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 294.18



NOTES:

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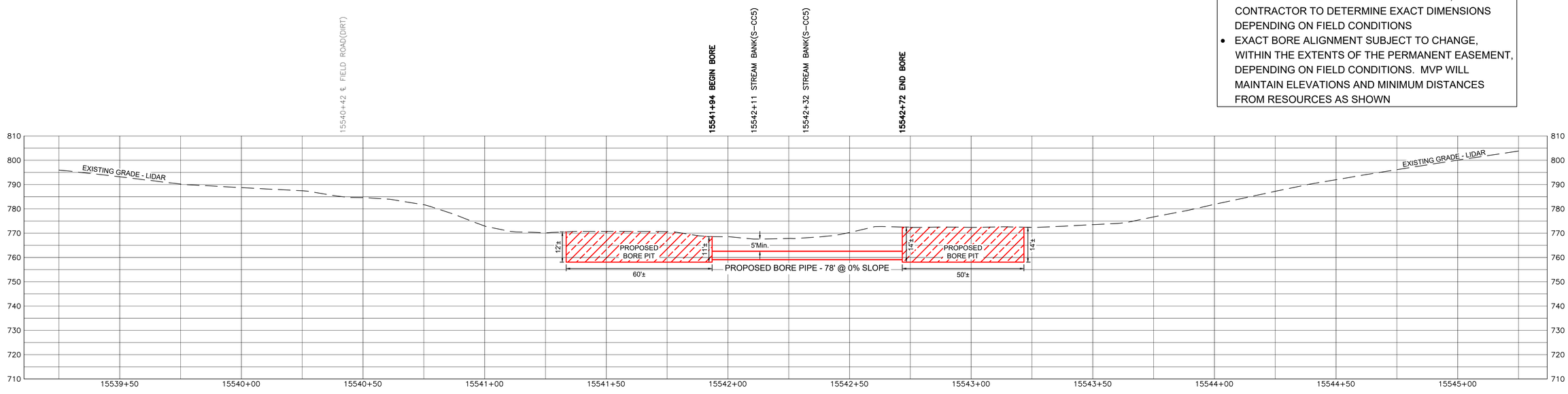

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-10	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/22/20	PRELIMINARY FOR REVIEW
1	HEI	06/19/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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REV.	BY	DATE	REV.	BY	DATE
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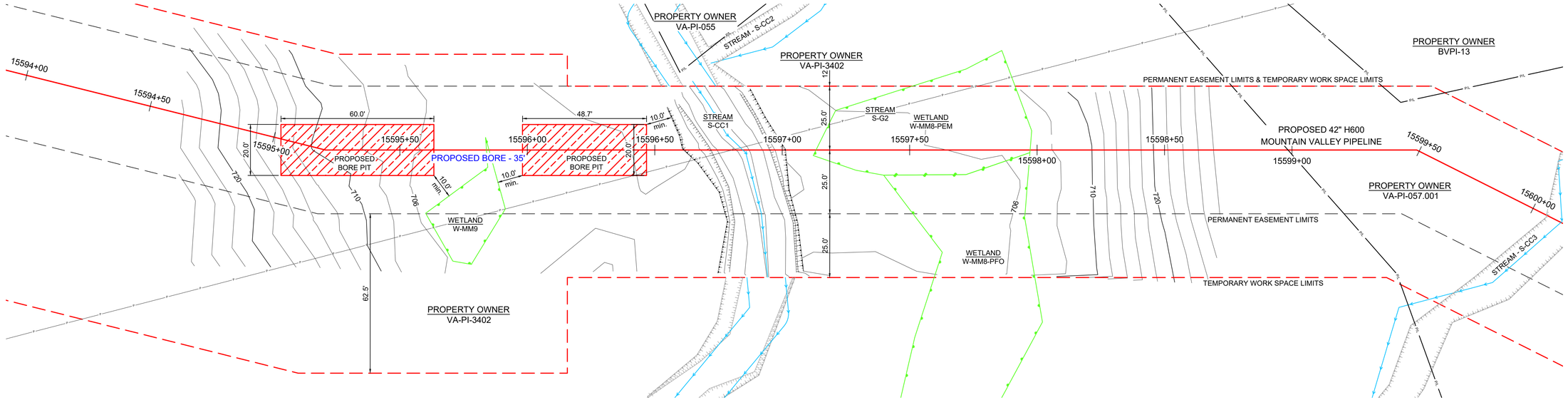
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(TRG)	5/22/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-217
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/19/2020 3:23 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15539+25 TO 15545+25
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 295.2



NOTES:

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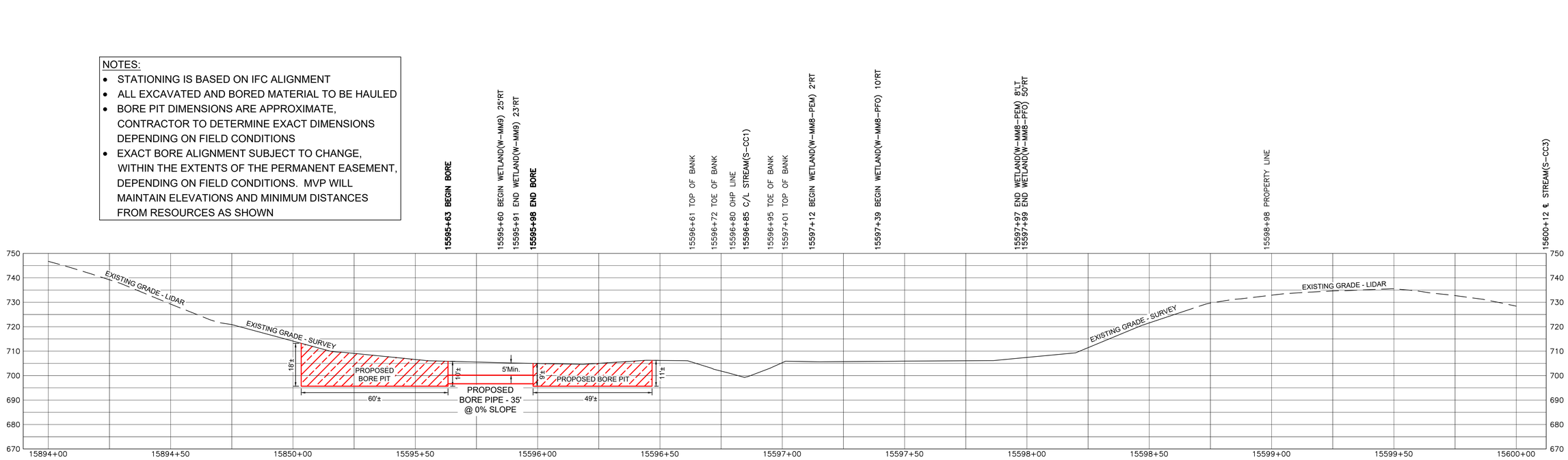

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-11	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	06/25/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	02/16/21	ISSUED FOR VARIANCE

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
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Southfield, Michigan 48076
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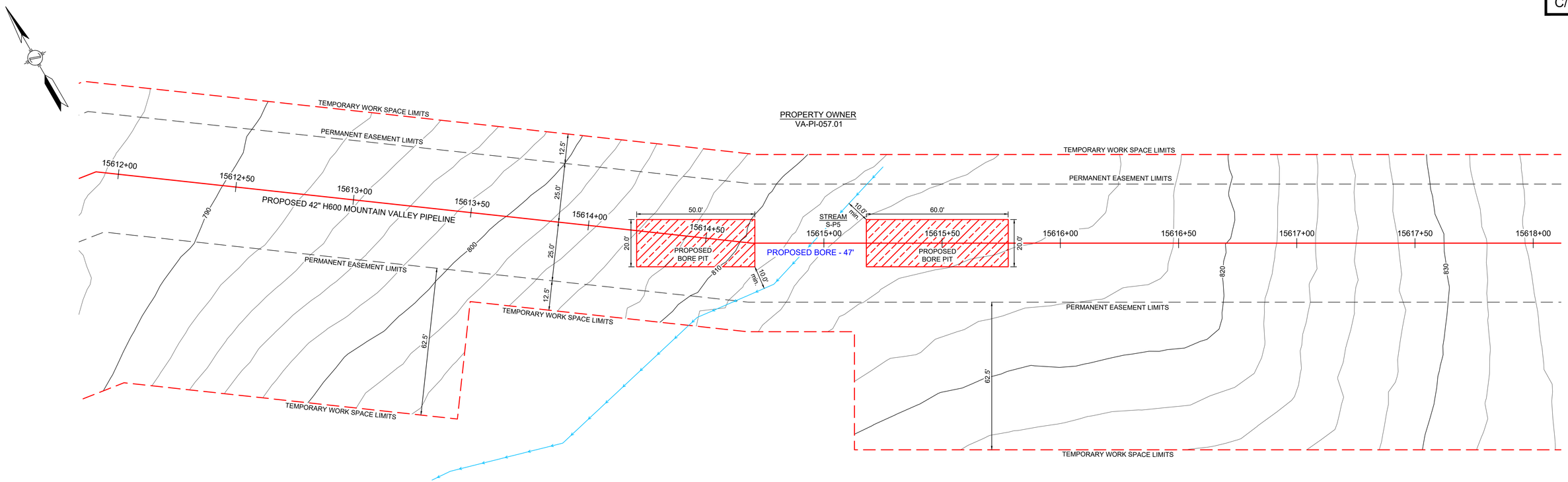
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.:	
PP-H600-080	
SHEET 1 OF 1	REV. 2
DATE OF PLOT: 2/16/2021 10:35 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15894+00 TO 15600+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 295.56



NOTES:

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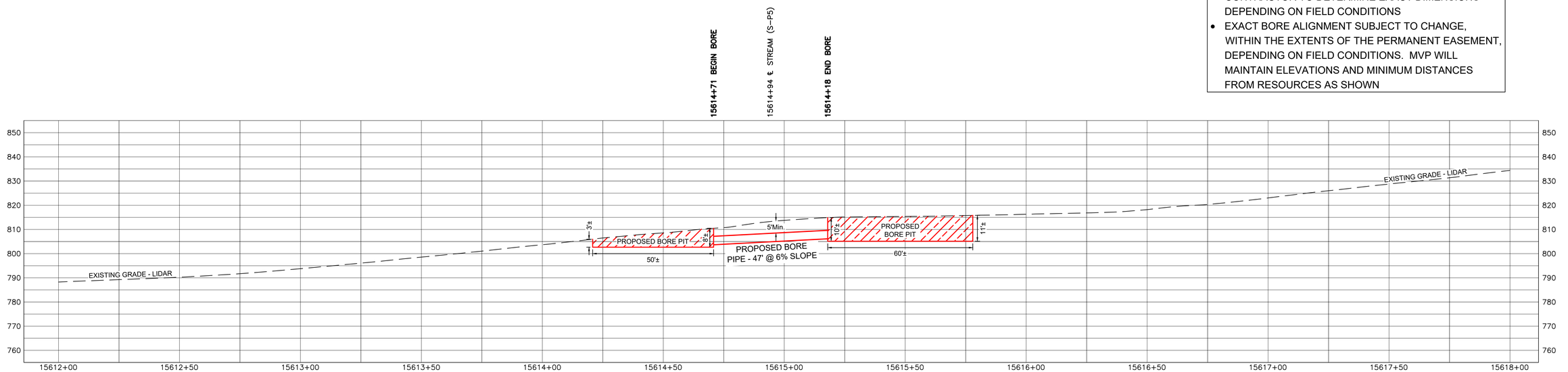

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-11	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/25/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/25/2020
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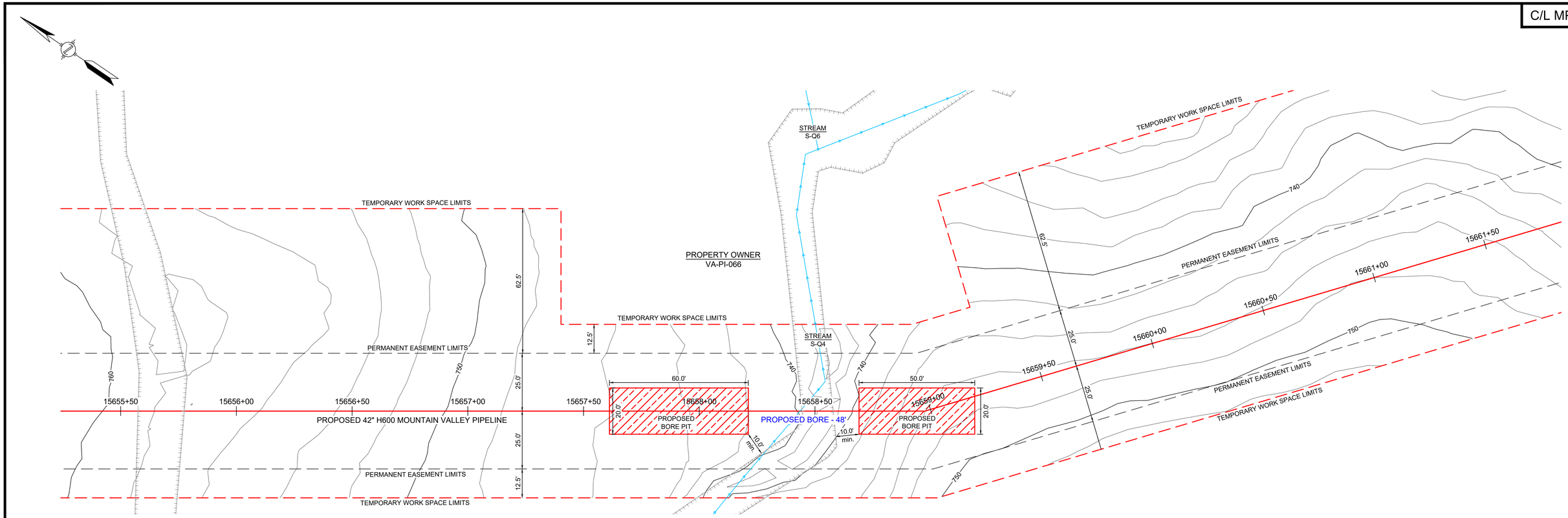
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-222
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 1:03 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15612+00 TO 15618+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 296.38



NOTES:

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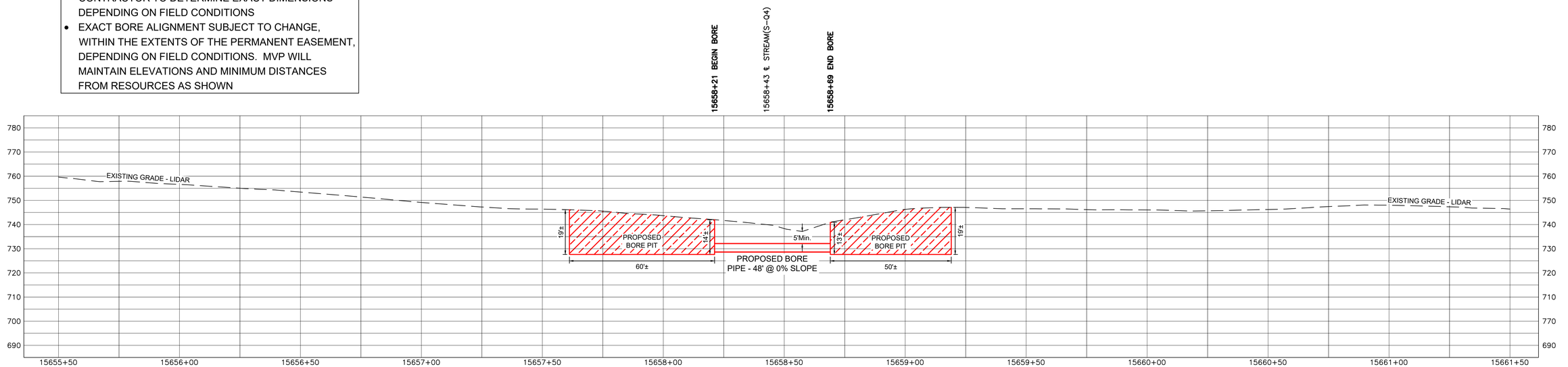

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-12	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/25/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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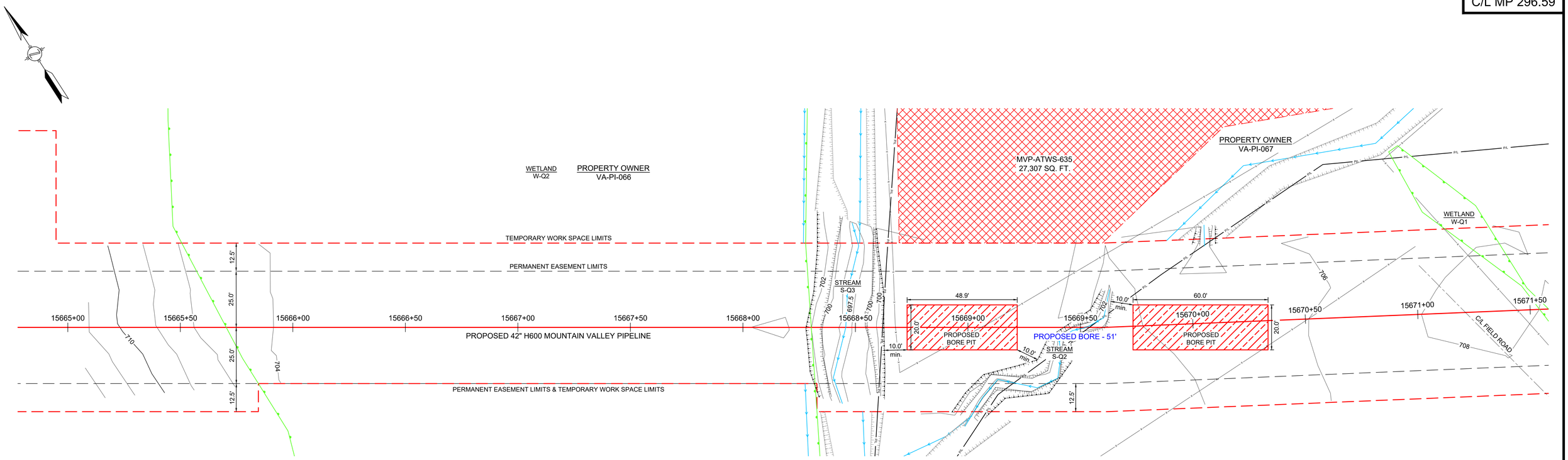
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/25/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-224
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 1:04 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15655+50 TO 15661+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 296.59



NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
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- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
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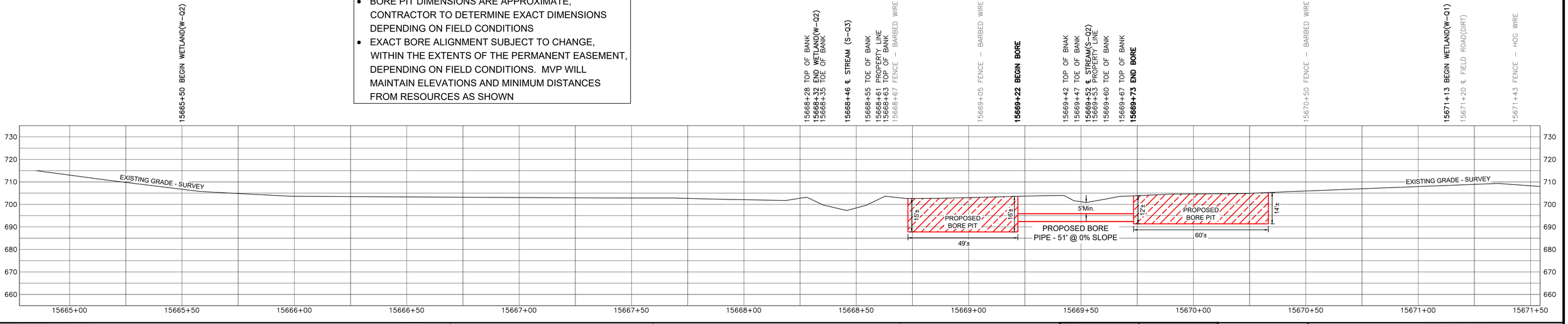

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PI/VA-H600-12	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/14/20	PRELIMINARY FOR REVIEW
1	HEI	07/13/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION
2	HEI	11/17/20	TRANSFERRED DRAWING TO MVP
3	HEI	01/12/21	ADJUSTED PROFILE
4	HEI	02/02/21	ISSUED FOR VARIANCE REQUEST

HOLLAND ENGINEERING

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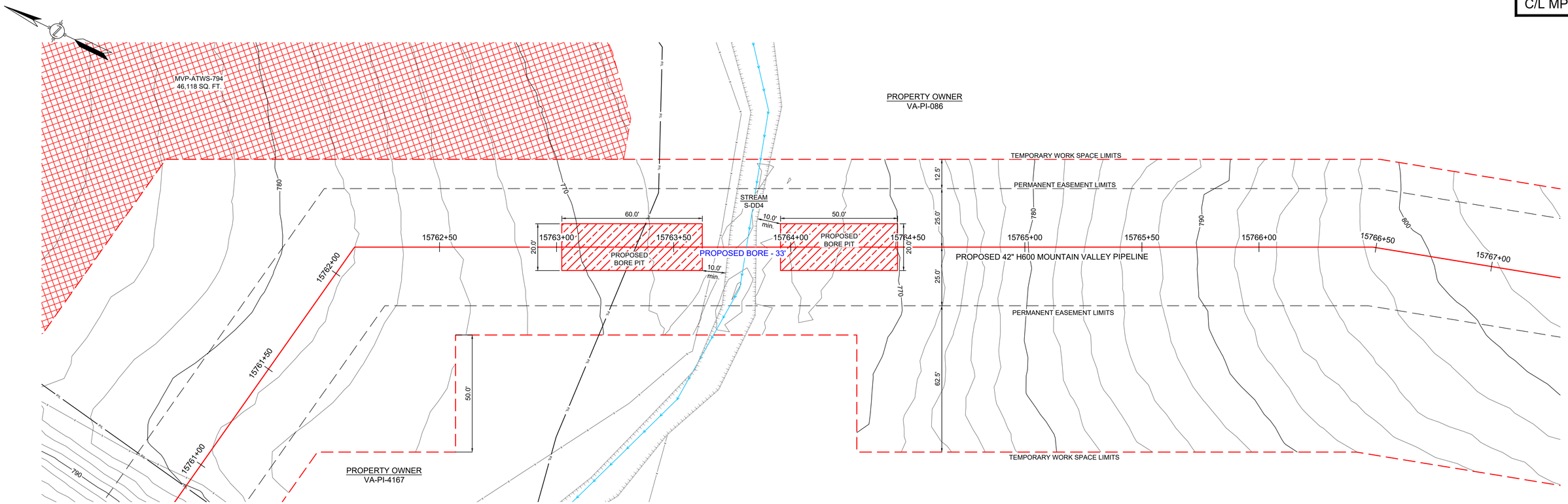
REV.	BY	DATE	REV.	BY	DATE
-	....	../../..	-	....	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(DRF)	5/14/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-081
SHEET 1 OF 1	REV. 4
DATE OF PLOT: 2/2/2021 10:08 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15665+10 TO 15672+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 298.37



NOTES:

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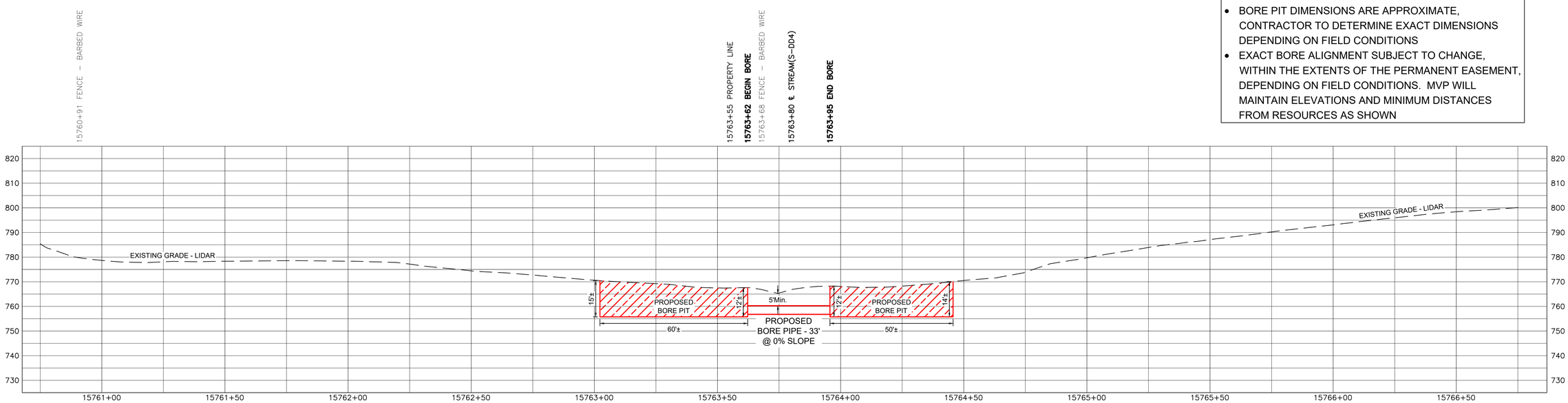

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-15	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/25/20	PRELIMINARY FOR REVIEW
1	HEI	06/23/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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220 Hoover Boulevard, Suite 2
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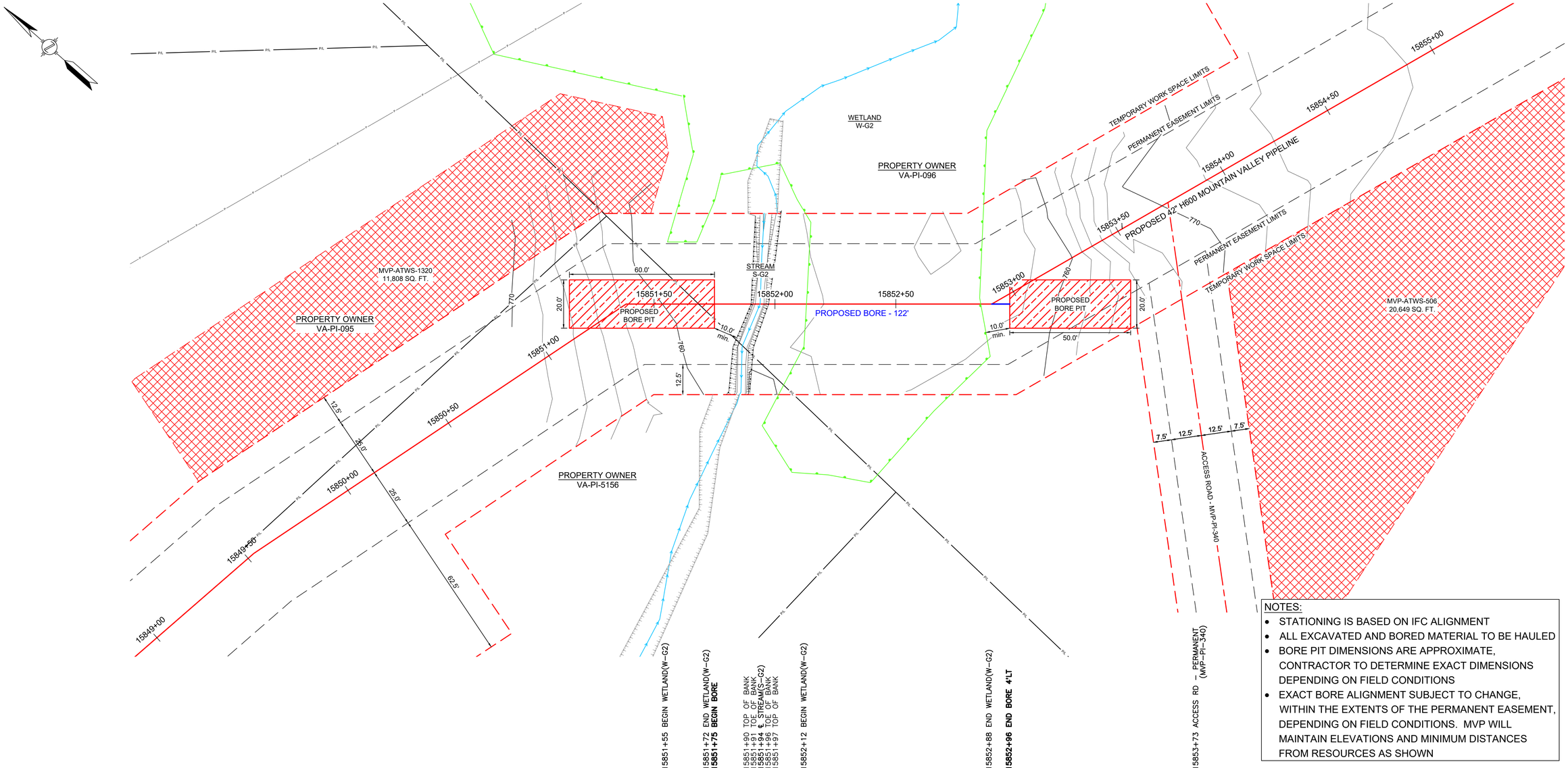
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/25/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-228
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/23/2020 8:34 AM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15760+75 TO 15766+75
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 300.05



NOTES:

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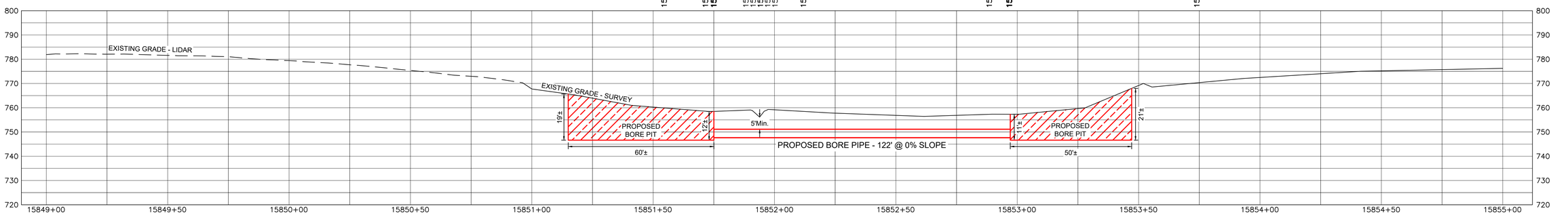
15851+55 BEGIN WETLAND(W-G2)
15851+72 END WETLAND(W-G2)
15851+75 BEGIN BORE
15851+90 TOP OF BANK
15851+91 TOE OF BANK
15851+94 ℄ STREAM(S-G2)
15851+96 TOE OF BANK
15851+97 TOP OF BANK
15852+12 BEGIN WETLAND(W-G2)
15852+88 END WETLAND(W-G2)
15852+96 END BORE 4'LT
15853+73 ACCESS RD – PERMANENT (MVP-PI-340)



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
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- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-16	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/04/20	PRELIMINARY FOR REVIEW
1	HEI	07/13/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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REV.	BY	DATE	REV.	BY	DATE
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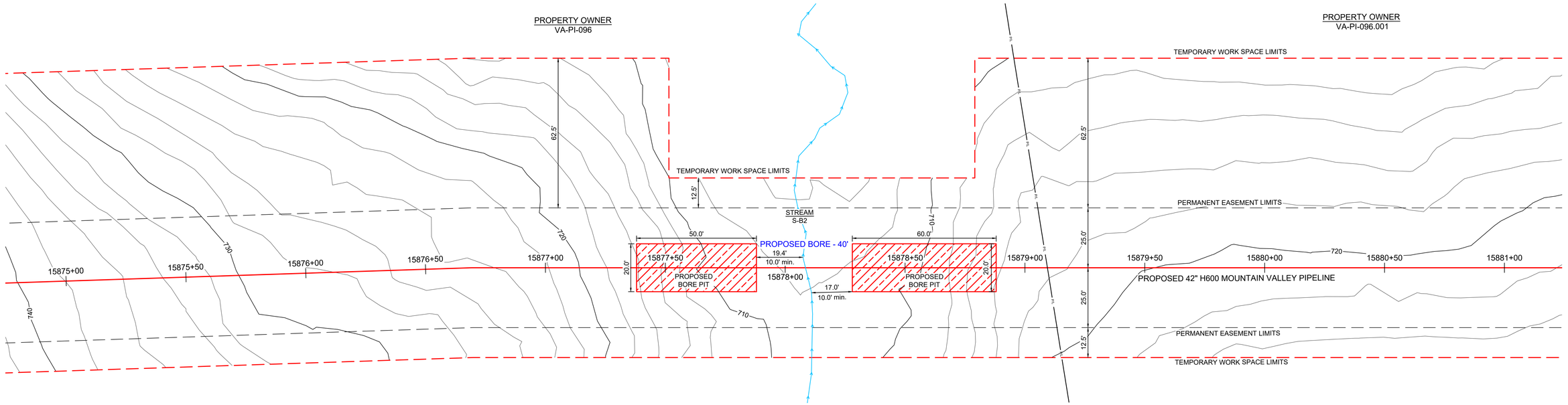
VERT & HORZ. SCALE:	1" = 20'
DRAWN BY: HEI(DRF)	5/04/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	**PP-H600-083**
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	7/13/2020 4:38 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15849+00 TO 15855+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 300.54



NOTES:

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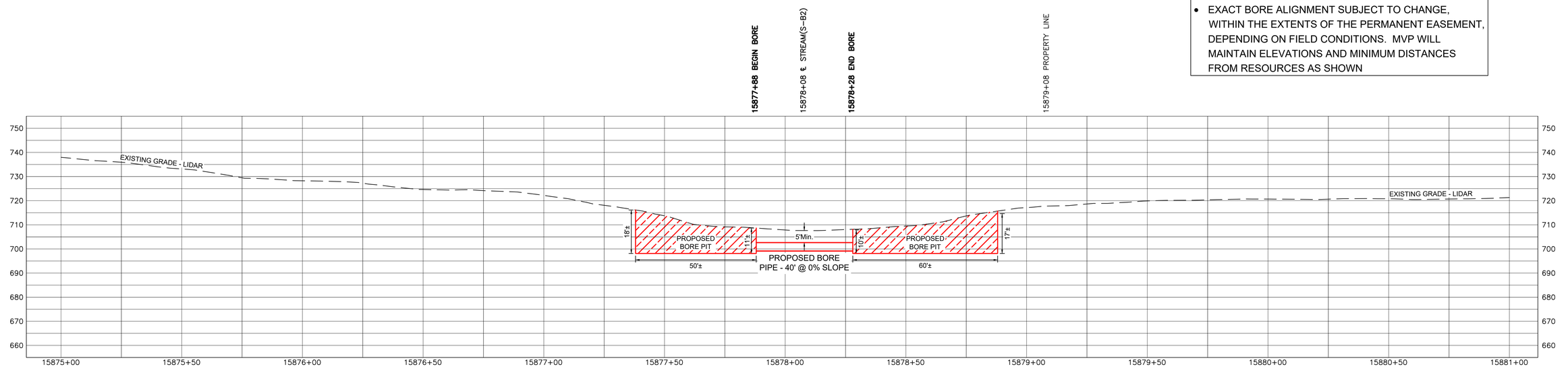

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
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- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-17	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/25/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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220 Hoover Boulevard, Suite 2
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Southfield, Michigan 48076
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REV.	BY	DATE	REV.	BY	DATE
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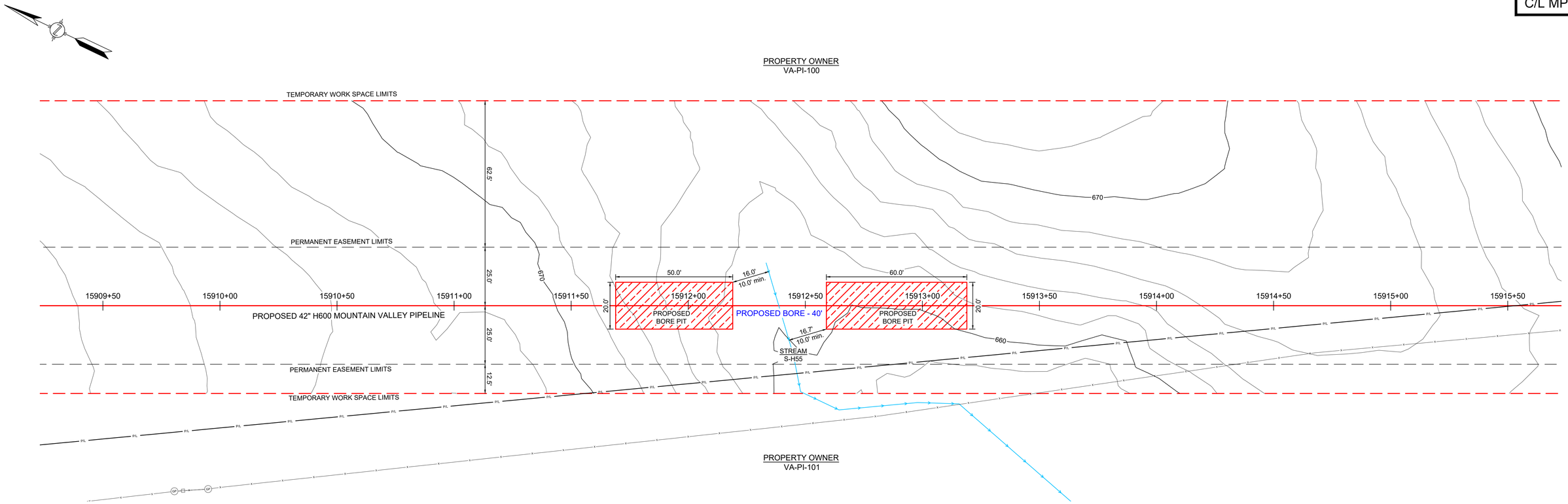
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/25/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-231
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 12:13 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15875+00 TO 15881+00
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 301.19



NOTES:

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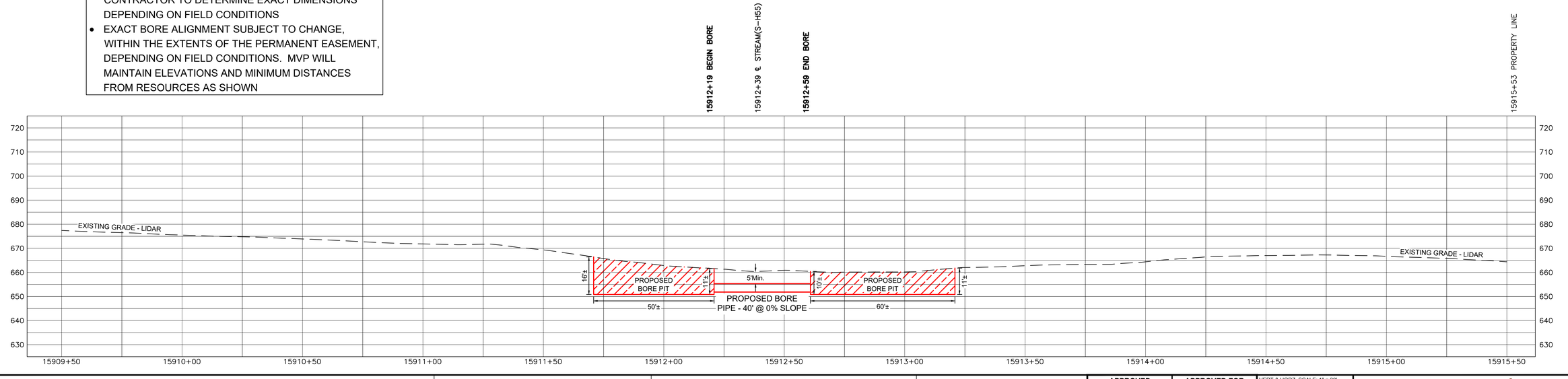

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-18	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/25/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20.	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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REV.	BY	DATE	REV.	BY	DATE
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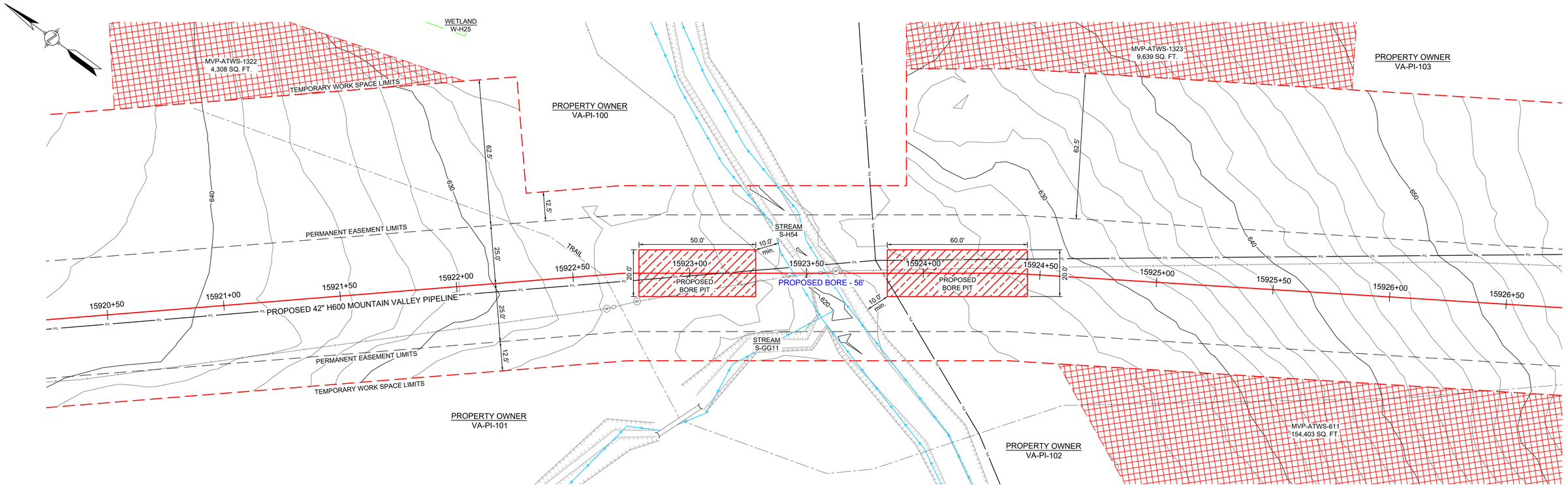
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/25/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-232
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 12:26 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15909+50 TO 15915+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 301.40



NOTES:

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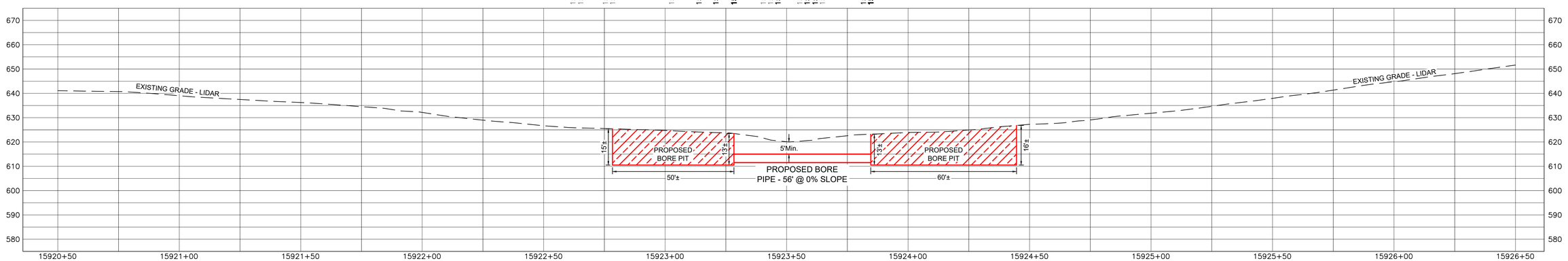
15922+62 ℄ TRAIL(DIRT)
15922+63 GATE POST 15'RT
15922+77 GATE POST 12'RT
15922+86 CULVERT 69'RT
15923+03 CULVERT 57'RT
15923+14 PROPERTY LINE
15923+21 BEGIN ℄ STREAM(S-GG11)37'RT
15923+28 BEGIN BORE
15923+40 FENCE - BARBED WIRE
15923+43 GATE POST 11'RT
15923+45 STREAM BANK(S-H54)
15923+55 GATE
15923+59 STREAM BANK(S-H54)
15923+62 END ℄ STREAM(S-GG11)16'RT
15923+63 GATE POST 11'LT
15923+83 PROPERTY LINE
15923+84 END BORE



LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
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- STREAM
- CULVERT
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- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
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- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-18	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/25/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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VERT & HORZ. SCALE: 1" = 20'	
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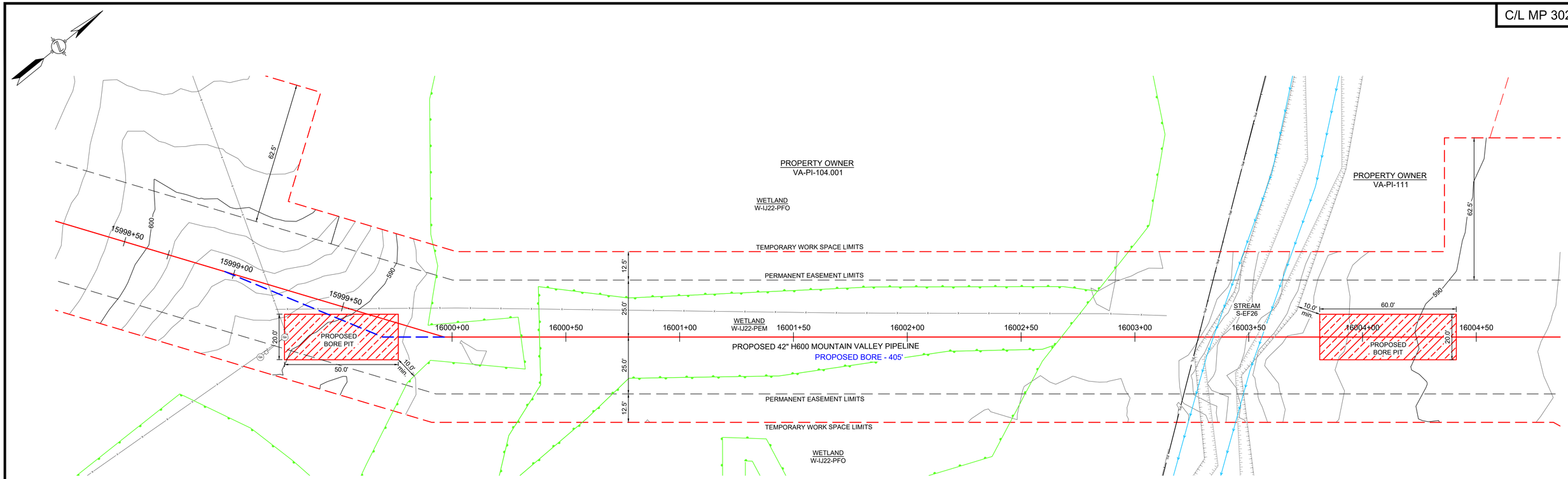
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-233
SHEET 1 OF 1	REV. 1
DATE OF PLOT:	6/22/2020 1:31 PM

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15920+50 TO 15926+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 302.90



15998+96 BEGIN BORE ROUTE ADJUSTMENT

15999+77 BEGIN BORE 6'RT

15999+80 BEGIN WETLAND(W-IJ22-PFO)37'LT

15999+97 END BORE ROUTE ADJUSTMENT

16000+29 BEGIN WETLAND(W-IJ22-PEM)37'RT

16002+50 PROPERTY LINE

16002+84 END WETLAND(W-IJ22-PEM)20'LT

16002+97 END WETLAND(W-IJ22-PFO)37'LT

16003+28 FENCE - BARBED WIRE

16003+35 STREAM BANK(S-EF26),

16003+56 STREAM BANK(S-EF26),

16003+31 END BORE

NOTES:

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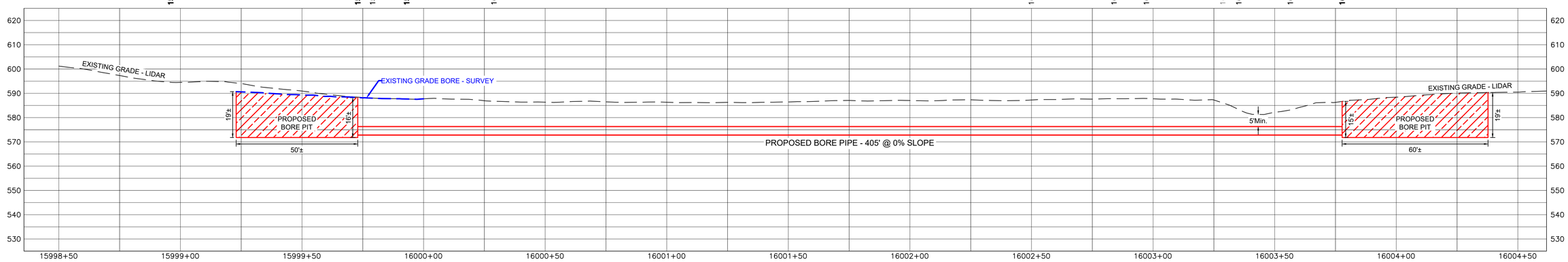

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
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- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-20	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/30/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

HOLLAND ENGINEERING

220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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Southfield, Michigan 48076
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
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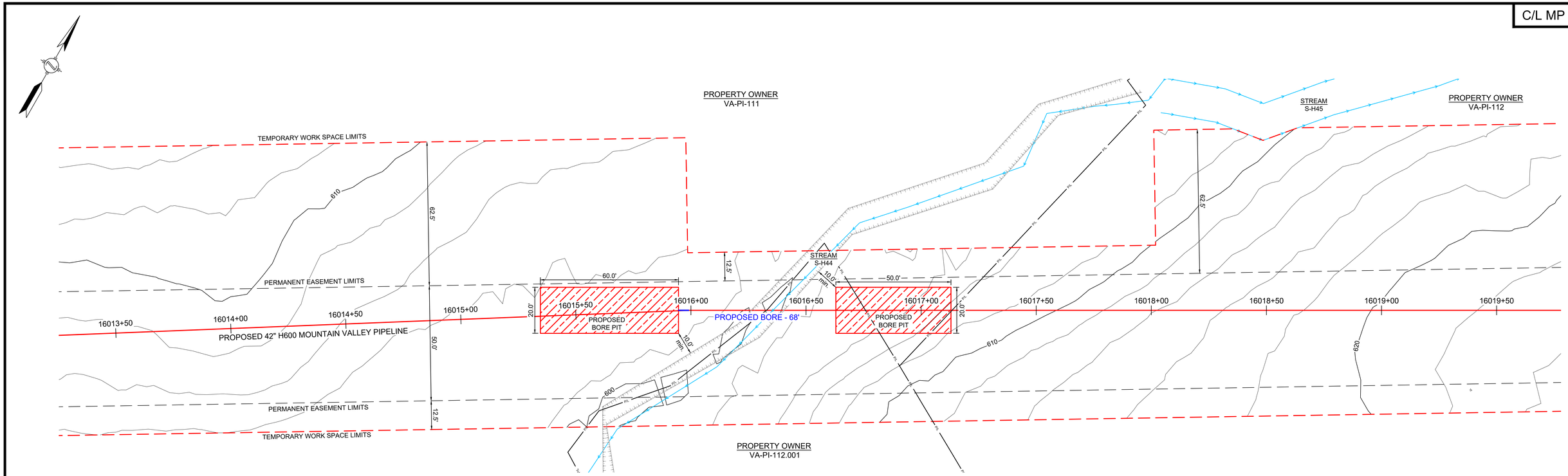
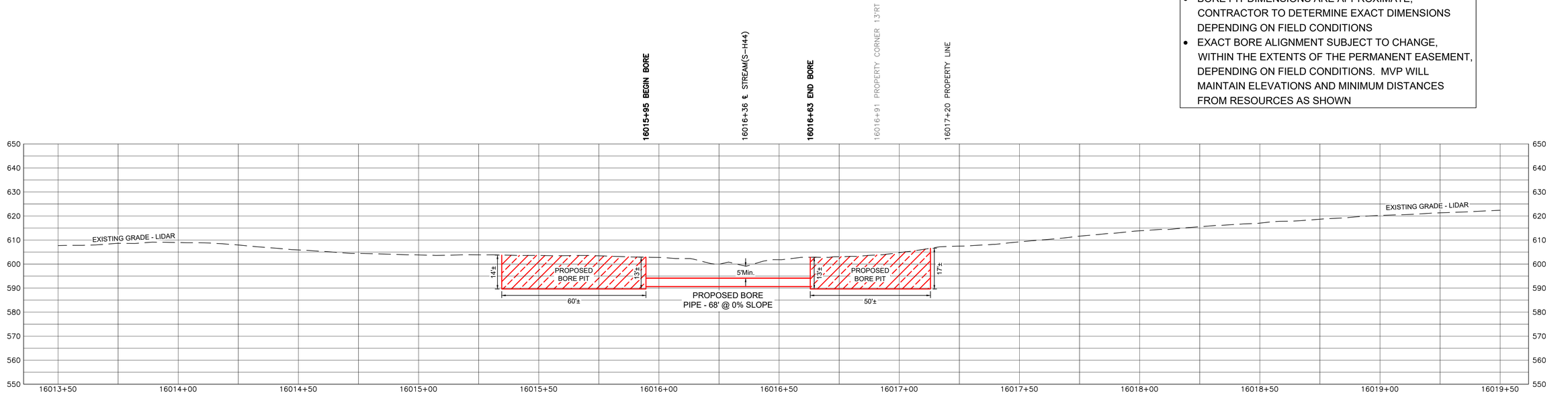
VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/30/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H600-237
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 3:11 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 15998+50 TO 16004+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 303.16





NOTES:

- STATIONING IS BASED ON IFC ALIGNMENT
- ALL EXCAVATED AND BORED MATERIAL TO BE HAULED
- BORE PIT DIMENSIONS ARE APPROXIMATE, CONTRACTOR TO DETERMINE EXACT DIMENSIONS DEPENDING ON FIELD CONDITIONS
- EXACT BORE ALIGNMENT SUBJECT TO CHANGE, WITHIN THE EXTENTS OF THE PERMANENT EASEMENT, DEPENDING ON FIELD CONDITIONS. MVP WILL MAINTAIN ELEVATIONS AND MINIMUM DISTANCES FROM RESOURCES AS SHOWN

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
- ACCESS ROAD
- ROAD RIGHT-OF-WAY
- PROPERTY LINE
- FENCE
- TOP OF BANK
- TOE OF BANK
- STREAM
- CULVERT
- MAILBOX
- FIRE HYDRANT
- GUY ANCHOR - POWER POLE
- LINE MARKER
- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H600-20	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/30/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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

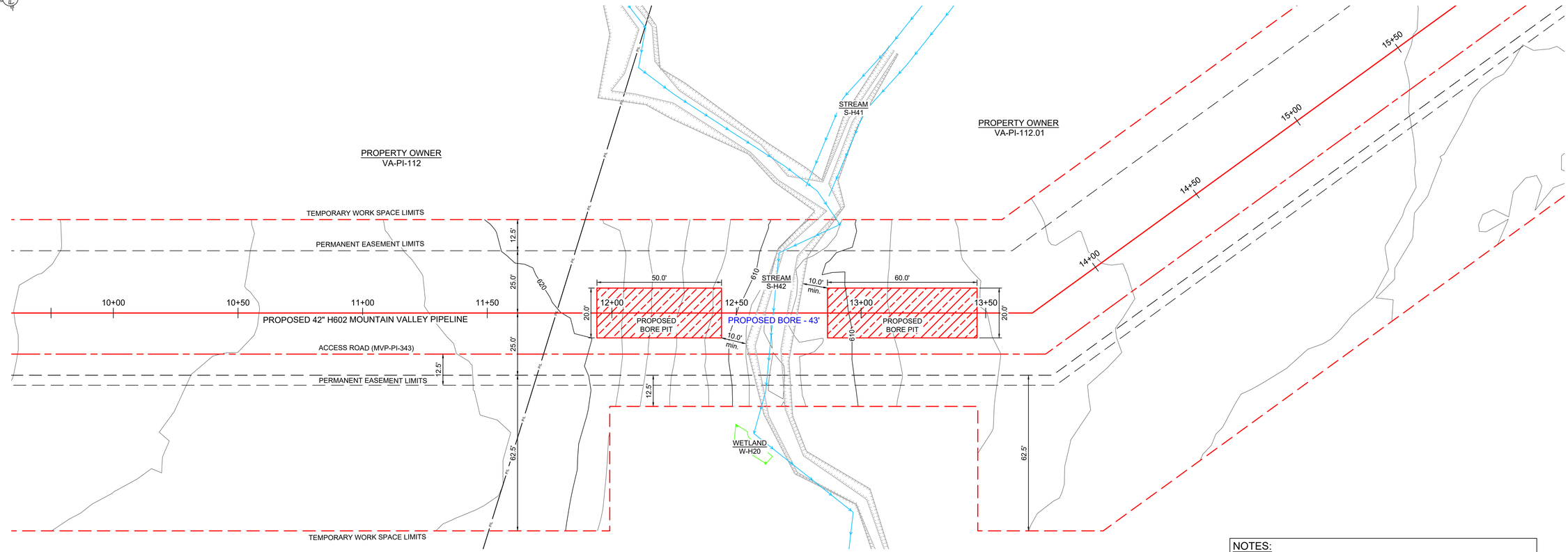
APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
-	...	-/-/-	-	...	-/-/-

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/30/2020
DRAFTING CK:	-
ENGINEERING CK:	-
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.: 14-10-052	
UEI FILE NO.	
DRAWING NO.: PP-H600-238	
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 3:27 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 16013+50 TO 16019+50
MVP PIPELINE PROJECT
PROPOSED H600 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA

C/L MP 0.23



NOTES:

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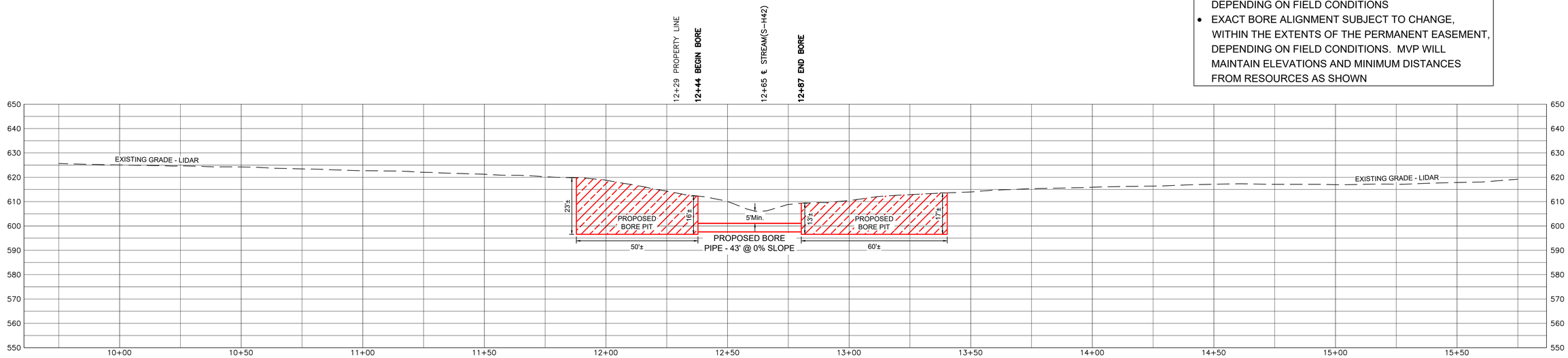

LEGEND

- PROPOSED H600 PIPELINE
- PROPOSED PERMANENT EASEMENT
- TEMPORARY WORK SPACE
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- PROPERTY LINE
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- GUY ANCHOR - POWER POLE
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- SIGN
- CULVERT
- PIPELINE
- WATERMAIN
- OVERHEAD POWER LINE
- WETLAND BOUNDARY

PROJECTION: UTM ZONE 17
HORIZONTAL DATUM: NAD 83 US SURVEY FEET
VERTICAL DATUM: NAVD88

REFERENCE DRAWINGS

DRAWING NUMBER	TITLE
PA-PIVA-H602-01	ALIGNMENT SHEET

REVISIONS

REV	BY	DATE	DESCRIPTION
0	HEI	05/30/20	PRELIMINARY FOR REVIEW
1	HEI	06/22/20	ISSUED FOR REVIEW - ADDED BORE INFORMATION

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220 Hoover Boulevard, Suite 2
Holland, Michigan 49423-3766
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APPROVED FOR BIDDING			APPROVED FOR CONSTRUCTION		
REV.	BY	DATE	REV.	BY	DATE
.	...	../../..	.	...	../../..

VERT & HORZ. SCALE: 1" = 20'	
DRAWN BY: HEI(AJN)	5/30/2020
DRAFTING CK:	.
ENGINEERING CK:	.
UEI JOB NO.:	
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
UEI FILE NO.	
DRAWING NO.:	PP-H602-001
SHEET 1 OF 1	REV. 1
DATE OF PLOT: 6/22/2020 3:44 PM	

Mountain Valley PIPELINE

PLAN & PROFILE
STATION 9+75 TO 15+75
MVP PIPELINE PROJECT
PROPOSED H602 PIPELINE
PITTSYLVANIA COUNTY, VIRGINIA