



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, April 24, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Perna Unit 1H
47-017-06982-00-00

Modified LOD

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: Perna Unit 1H
Farm Name: Shawn A Glaspell
U.S. WELL NUMBER: 47-017-06982-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/24/2025

Promoting a healthy environment.

04/25/2025

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE: 39.386878 LONGITUDE: -80.676999 (NAD 83)
LATITUDE: 39.386794 LONGITUDE: -80.677176 (NAD 27)
N 4359760.04 E 527816.33 (UTM ZONE 17 METERS)

CENTER OF TANK
LATITUDE: 39.385725 LONGITUDE: -80.685345 (NAD 83)
LATITUDE: 39.385642 LONGITUDE: -80.685521 (NAD 27)
N 4359629.59 E 527098.04 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATITUDE: 39.385093 LONGITUDE: -80.685409 (NAD 83)
LATITUDE: 39.385009 LONGITUDE: -80.685586 (NAD 27)
N 4359559.36 E 527092.73 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54017C0045C.

MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY HAS BEEN CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION HAS OBTAINED AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN JULY/AUGUST, 2021 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE AUGUST 8, 2021 STREAM AND WETLAND DELINEATION INDEX MAP WAS PREPARED BY ALLSTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP.

GEOTECHNICAL NOTES:

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON AUGUST 13 - OCTOBER 5, 2022. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED OCTOBER 31, 2022, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS:

OPERATOR:

ANTERO RESOURCES CORPORATION
535 WHITE OAKS BLVD
BRIDGEPORT, WV 26330
PHONE: (304) 842-4100
FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER &
REGULATORY MANAGER
OFFICE: (304) 842-4068 CELL: (304) 476-9770

JON McEVERS - SVP OPERATIONS
OFFICE: (303) 357-6799

AARON KUNZLER - CONSTRUCTION MANAGER
OFFICE: (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER
OFFICE: (304) 842-4100 CELL: (304) 627-7405

NOTES:

- ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT IN EXCESS OF 0.5" AND ON A BIWEEKLY BASIS.
- THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEEDED.
- THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF FEBRUARY 10, 2025. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES.
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS
- THE EXISTING EGRESSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

REPRODUCTION NOTE

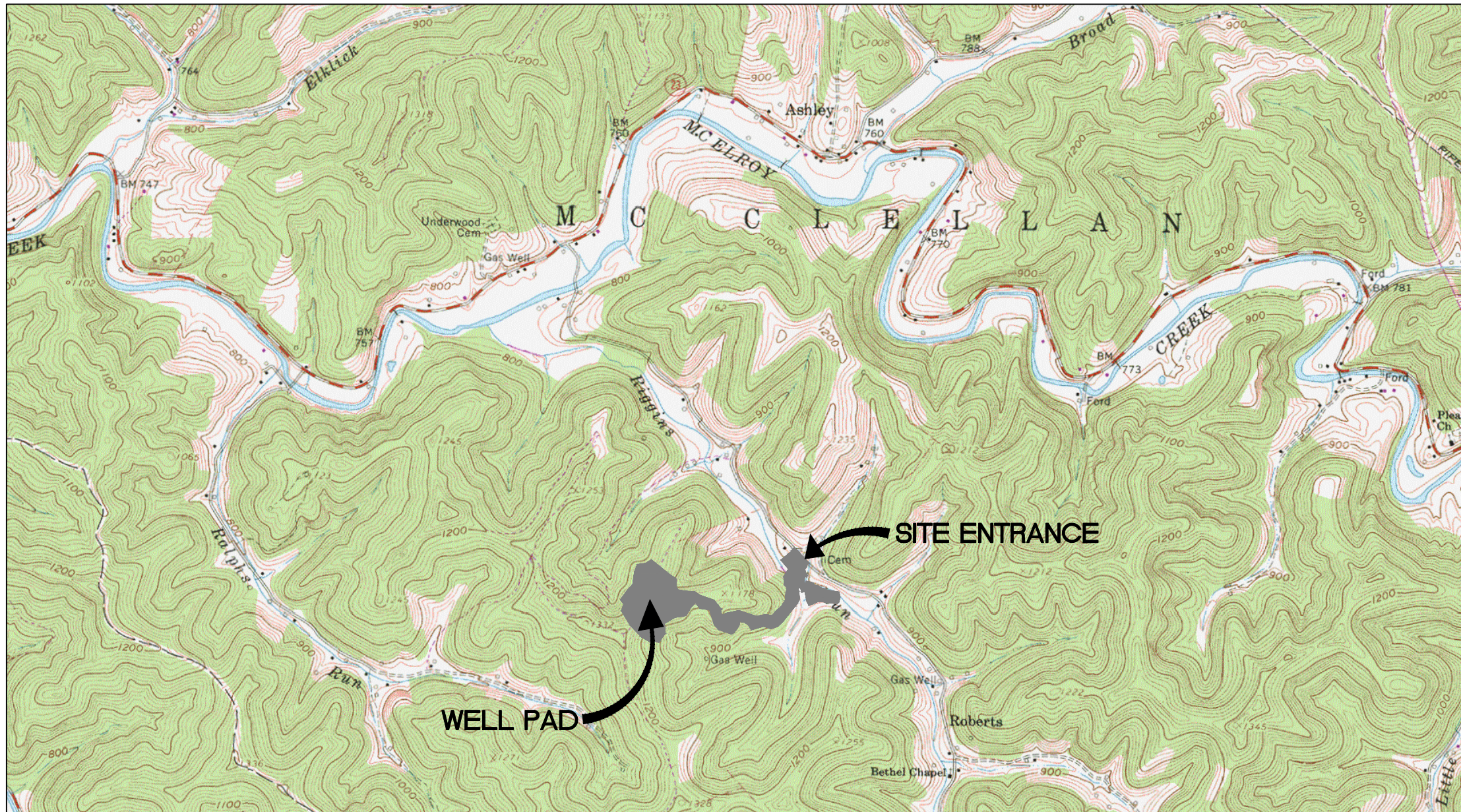
THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

CRIMSON WELL PAD & WATER CONTAINMENT PAD AS-BUILT EROSION & SEDIMENT CONTROL IMPROVEMENT PLANS

MCLELLAN DISTRICT, DODDRIDGE COUNTY, WV
MCELROY CREEK WATERSHED

CENTER POINT USGS 7.5 QUAD MAP(S)

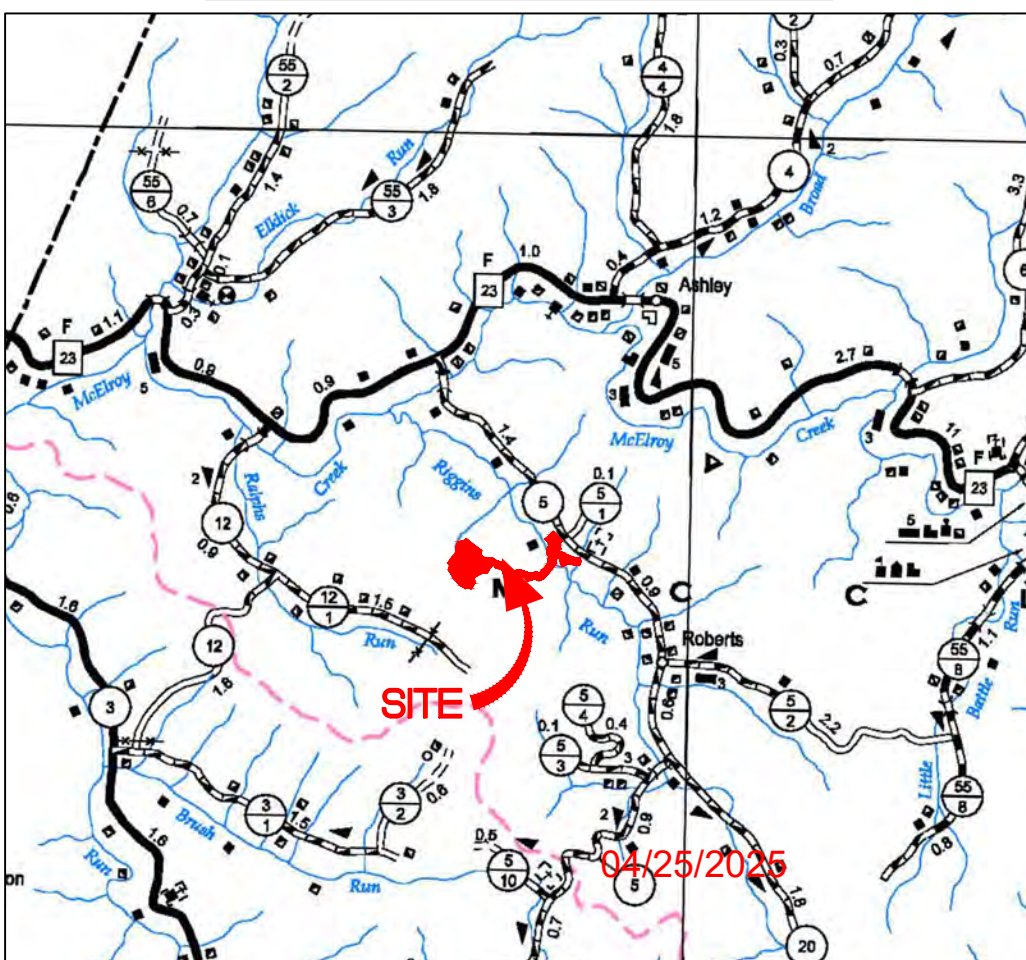


WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



(NOT TO SCALE)

MISS Utility of West Virginia
1-800-245-4848

West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!!

AS-BUILT CERTIFICATIONS:

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.

APPROVED
WVDEP OOG
Modification
4/17/2025

SHEET INDEX:

- 1 - COVER SHEET
- 2 - LEGEND
- 3 - OVERALL PLAN SHEET INDEX
- 4 - ACCESS ROAD, STAGING AREA & STOCKPILE AS-BUILT PLAN
- 5 - ACCESS ROAD AS-BUILT PLAN
- 6 - ACCESS ROAD, WELL PAD & STOCKPILE AS-BUILT PLAN
- 7 - WELL PAD & STOCKPILE AS-BUILT PLAN
- 8-10 - ACCESS ROAD AS-BUILT PROFILE
- 11 - WELL PAD & STAGING AREA AS-BUILT SECTIONS
- 12 - STOCKPILE AS-BUILT SECTIONS

CRIMSON LIMITS OF DISTURBANCE AREA (AC)			
Total Site	Permitted	Modification	Total
Access Road "A" (3,232')	13.26	0.51	13.77
Staging Area	1.53	0.00	1.53
Well Pad	14.46	0.00	14.46
Production Equipment Pad	1.62	0.00	1.62
Excess/Topsoil Material Stockpiles	6.02	0.00	6.02
Total Affected Area	36.89	0.51	37.40
Total Wooded Acres Disturbed	0.00	0.51	0.51
Impacts to Shawn A. Glaspell TM 17-3-11			
Staging Area	0.55	0.00	0.55
Total Affected Area	0.55	0.00	0.55
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-14			
Access Road "A" (1,935')	8.23	0.51	8.74
Staging Area	0.98	0.00	0.98
Excess/Topsoil Material Stockpiles	2.95	0.00	2.95
Total Affected Area	12.16	0.51	12.67
Total Wooded Acres Disturbed	0.00	0.51	0.51
Impacts to Shawn A. Glaspell TM 17-23			
Excess/Topsoil Material Stockpiles	0.02	0.00	0.02
Total Affected Area	0.02	0.00	0.02
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-3-5			
Access Road "A"	0.02	0.00	0.02
Total Affected Area	0.02	0.00	0.02
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-3-2			
Access Road "A" (1,297')	5.01	0.00	5.01
Well Pad	5.48	0.00	5.48
Excess/Topsoil Material Stockpiles	2.91	0.00	2.91
Total Affected Area	13.40	0.00	13.40
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-3-3			
Well Pad	8.98	0.00	8.98
Production Equipment Pad	1.62	0.00	1.62
Excess/Topsoil Material Stockpiles	0.14	0.00	0.14
Total Affected Area	10.74	0.00	10.74
Total Wooded Acres Disturbed	0.00	0.00	0.00

CRIMSON WETLAND PERMANENT IMPACT (SQUARE FEET)			
Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total Impact (AC)
ASE_Wetland09 (Well Pad)	5,477	5,477	0.126
ASE_Wetland08 (Well Pad)	986	986	0.023

CRIMSON PERENNIAL STREAM IMPACT (LINEAR FEET)						
Stream and Impact Cause	Permanent Impacts		Total Permanent Impact (LF)	Temp. Impacts		Total Temp. Impact (LF)
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	
ASE_Stream05_ASE_Stream01_MOD (Riggins Run) (Access Road)	110	0	110	25	57	82
CRIMSON INTERMITTENT STREAM IMPACT (LINEAR FEET)						
Stream and Impact Cause	Permanent Impacts		Total Permanent Impact (LF)	Temp. Impacts		Total Temp. Impact (LF)
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	
ASE_Stream25 (Access Road)	0	0	0	0	38	38
ASE_Stream24_ASE_Stream02_MOD (Access Road)	0	0	0	0	33	33
CRIMSON EPHEMERAL STREAM IMPACT (LINEAR FEET)						
Stream and Impact Cause	Permanent Impacts		Total Permanent Impact (LF)	Temp. Impacts		Total Temp. Impact (LF)
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	
ASE_Stream_12 (Access Road)	33	18	51	36	4	40
ASE_Stream_40 (Well Pad)	41	19	60	12	12	24
ASE_Stream_46 (Well Pad)	30	0	30	21	8	29
ASE_Stream_43 (Well Pad)	0	0	0	9	6	15

NAVITUS
ENERGY ENGINEERING

Telephone: (888) 662-4185 | www.NavitusEng.com

DATE	REVISION		
	REVISED PER WELLS	REVISED PER LOD MODIFICATION	
08/01/2024			
03/07/2025			



THIS DOCUMENT
WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

COVER SHEET
CRIMSON
WELL PAD & WATER CONTAINMENT PAD
MCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 12/12/2023

SCALE: AS SHOWN

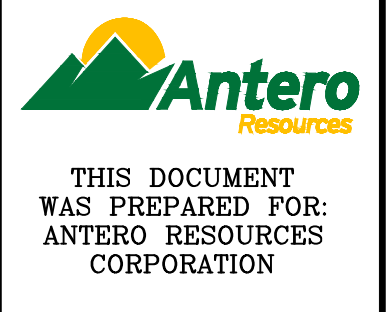
SHEET 1 OF 12

LEGEND

LEGEND			
EX. INDEX CONTOUR & CONTOUR LABEL		PR. INDEX CONTOUR (10' INTERVAL) & CONTOUR LABEL	
EX. INTERMEDIATE CONTOUR		PR. INTERMEDIATE CONTOUR (2' INTERVAL)	
EX. PROPERTY LINE		PR. INTERMEDIATE CONTOUR (1' INTERVAL)	
EX. TOP OF BERM		PR. INDEX ROAD CONTOUR (10' INTERVAL) & CONTOUR LABEL	
EX. ROAD EDGE OF GRAVEL/DIRT		PR. INTERMEDIATE ROAD CONTOUR (2' INTERVAL)	
EX. ROAD EDGE OF PAVEMENT		PR. PADS/STOCKPILE TOPO LIMITS	
EX. ROAD CENTERLINE		PERMITTED LIMITS OF DISTURBANCE	
EX. GUARDRAIL		MODIFICATION LIMITS OF DISTURBANCE	
EX. BRIDGE		PR. ROAD/IMPOUNDMENT EDGE OF GRAVEL	
EX. DITCHLINE/DRAINAGE FEATURE		PR. ROAD EDGE OF PAVEMENT	
EX. RIP-RAP		PR. ROAD CENTERLINE	
EX. CULVERT		PR. GUARDRAIL	
EX. TREELINE		PR. ROCK CONSTRUCTION ENTRANCE	
EX. BUILDING		PR. AIR BRIDGE	
EX. MISCELLANEOUS FEATURE		PR. CULVERT	
EX. 100 YR FEMA FLOODPLAIN		PR. DITCH	
EX. DELINEATED STREAM		PR. RIP-RAP TRAPEZOIDAL DITCH	
EX. DELINEATED WETLAND/POND		PR. OUTLET PROTECTION	
100' WETLAND/STREAM BUFFER		PR. ROCK LEVEL SPREADER	
STREAM/WETLAND DELINEATION STUDY AREA		PR. COMPOST FILTER SOCK	
EX. FENCELINE		PR. SMART FENCE HD	
EX. GATE		PR. WELL HEAD	
EX. PERIMETER SAFETY FENCE		PR. PAD DEWATERING SYSTEM	
EX. ACCESS GATE WITH EMERGENCY LIFELINE		PR. TOP OF PAD CONTAINMENT BERM	
EX. WELL HEAD ON DESIGNED PAD		PR. 220' X 320' PAD FOOTPRINT	
EX. GAS WELL		PR. SPOT SHOT	
EX. PIPELINE		PR. PERIMETER SAFETY FENCE	
EX. PIPELINE R/W		PR. ACCESS GATE WITH EMERGENCY LIFELINE	
EX. PIPELINE METER		PR. PIPELINE	
EX. PIPELINE VALVE		PR. PIPELINE R/W	
EX. SUMP PUMP LINE		PR. OVERHEAD UTILITY	
EX. OVERHEAD UTILITY		PR. POWER POLE/GUY WIRE	
EX. POWER POLE/GUY WIRE		PR. UNDERGROUND ELECTRIC	
EX. UNDERGROUND ELECTRIC		PR. WATERLINE	
EX. UNDERGROUND TELEPHONE		BORING LOCATION	
EX. UNDERGROUND FIBER OPTIC		X-SECTION/PROFILE GRID INDEX	
EX. UTILITY R/W		X-SECTION/PROFILE GRID INTERMEDIATE	
EX. WATERLINE		X-SECTION/PROFILE PROPOSED GRADE	
EX. WATER WELL/EX. SPRING		X-SECTION/PROFILE EXISTING GRADE	
EX. COMPOST SOCK		X-SECTION/PROFILE WATER SURFACE	
EX. SMART FENCE HD		X-SECTION/PROFILE CULVERT	
EX. SILT FENCE		MATCHLINE	
APPROX. LOCATION OF SLIDE AREA		EX. METER	
APPROX. LOCATION OF BORROW/ SPOIL AREA		EX. TANK	
PR. TOE BENCH		EX. COMBUSTOR	
EX. APPROX. SURFACE & SUB-SURFACE ELECTRIC LINE AREA		EX. GPU	
EX. APPROX. SURFACE & SUB-SURFACE DUMP LINE AREA		EX. SEPARATOR	
EX. APPROX. SURFACE & SUB-SURFACE WELL LINE AREA		EX. VRT	
EX. APPROX. SURFACE & SUB-SURFACE SALES LINE AREA		EX. KNOCK-OUT VESSEL	
		EX. STAIRS/CATWALK	
		EX. DEWATERING SYSTEM	
		EX. PIG LAUNCHER	
		EX. SECONDARY CONTAINMENT	
		EX. ABOVE-GND VAPOR LINE	
		EX. ESD	
		EX. MAILBOX	
		EX. CONTROL PT.	
		EX. MUSTER AREA	



DATE	REVISION
08/01/2024	REVISED PER WELLS
03/07/2025	REVISED PER LOD MODIFICATION



LEGEND
CRIMSON
WELL PAD & WATER CONTAINMENT PAD
McCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

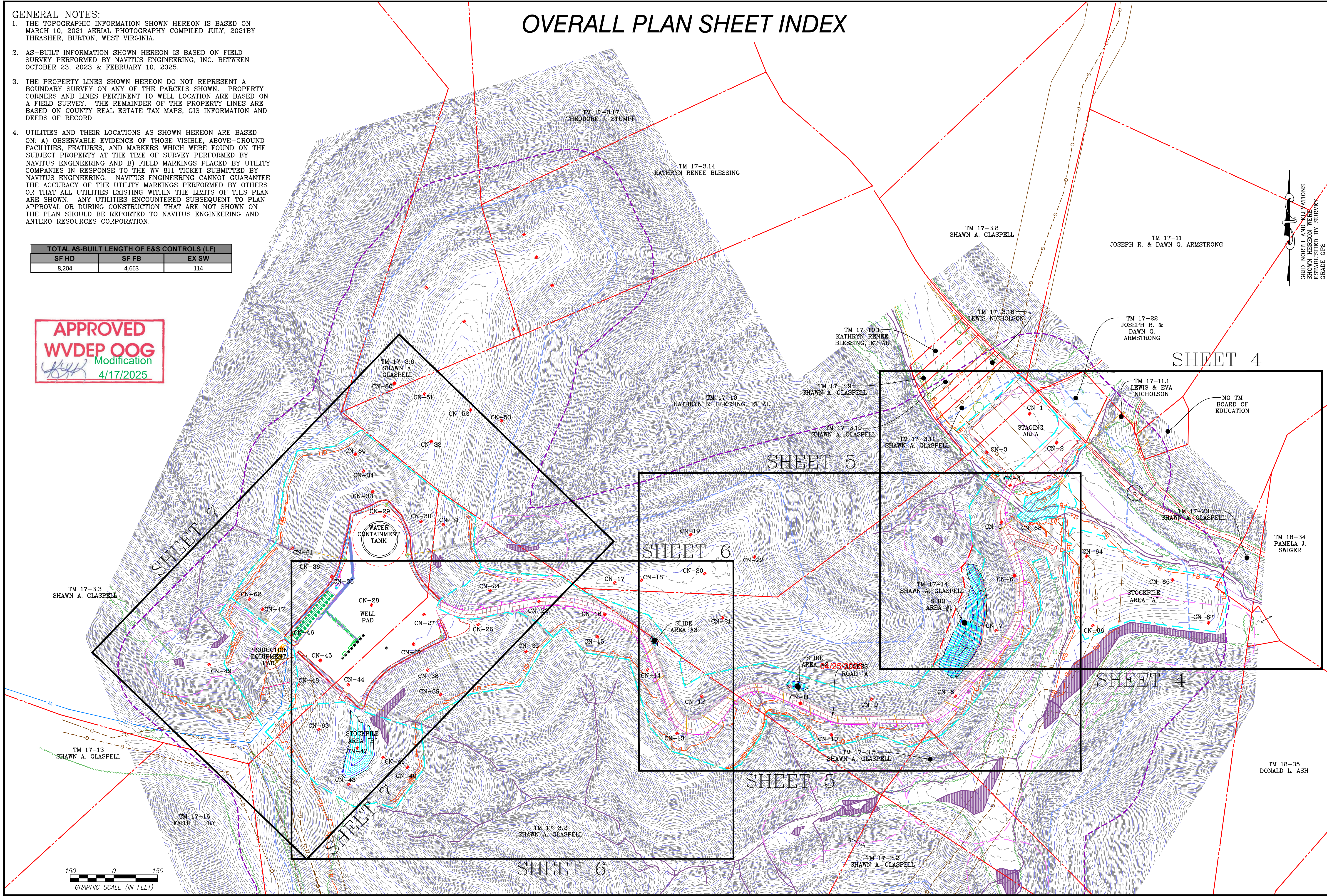


- GENERAL NOTES:
1. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON MARCH 10, 2021 AERIAL PHOTOGRAPHY COMPILED JULY, 2021BY THRASHER, BURTON, WEST VIRGINIA.
 2. AS-BUILT INFORMATION SHOWN HEREON IS BASED ON FIELD SURVEY PERFORMED BY NAVITUS ENGINEERING, INC. BETWEEN OCTOBER 23, 2023 & FEBRUARY 10, 2025.
 3. THE PROPERTY LINES SHOWN HEREON DO NOT REPRESENT A BOUNDARY SURVEY ON ANY OF THE PARCELS SHOWN. PROPERTY CORNERS AND LINES PERTINENT TO WELL LOCATION ARE BASED ON A FIELD SURVEY. THE REMAINDER OF THE PROPERTY LINES ARE BASED ON COUNTY REAL ESTATE TAX MAPS, GIS INFORMATION AND DEEDS OF RECORD.
 4. UTILITIES AND THEIR LOCATIONS AS SHOWN HEREON ARE BASED ON: A) OBSERVABLE EVIDENCE OF THOSE VISIBLE, ABOVE-GROUND FACILITIES, FEATURES, AND MARKERS WHICH WERE FOUND ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY PERFORMED BY NAVITUS ENGINEERING AND B) FIELD MARKINGS PLACED BY UTILITY COMPANIES IN RESPONSE TO THE WV 811 TICKET SUBMITTED BY NAVITUS ENGINEERING. NAVITUS ENGINEERING CANNOT GUARANTEE THE ACCURACY OF THE UTILITY MARKINGS PERFORMED BY OTHERS OR THAT ALL UTILITIES EXISTING WITHIN THE LIMITS OF THIS PLAN ARE SHOWN. ANY UTILITIES ENCOUNTERED SUBSEQUENT TO PLAN APPROVAL OR DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLAN SHOULD BE REPORTED TO NAVITUS ENGINEERING AND ANTERO RESOURCES CORPORATION.

TOTAL AS-BUILT LENGTH OF E&S CONTROLS (LF)		
SF HD	SF FB	EX SW
8,204	4,663	114

APPROVED
WVDEP OOG
Modification
4/17/2025

OVERALL PLAN SHEET INDEX



NAVITUS
ENERGY ENGINEERING

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REVISION	DATE	REVISED PER
1	08/01/2024	REVISED PER WELLS
2	03/07/2025	REVISED PER LOD MODIFICATION

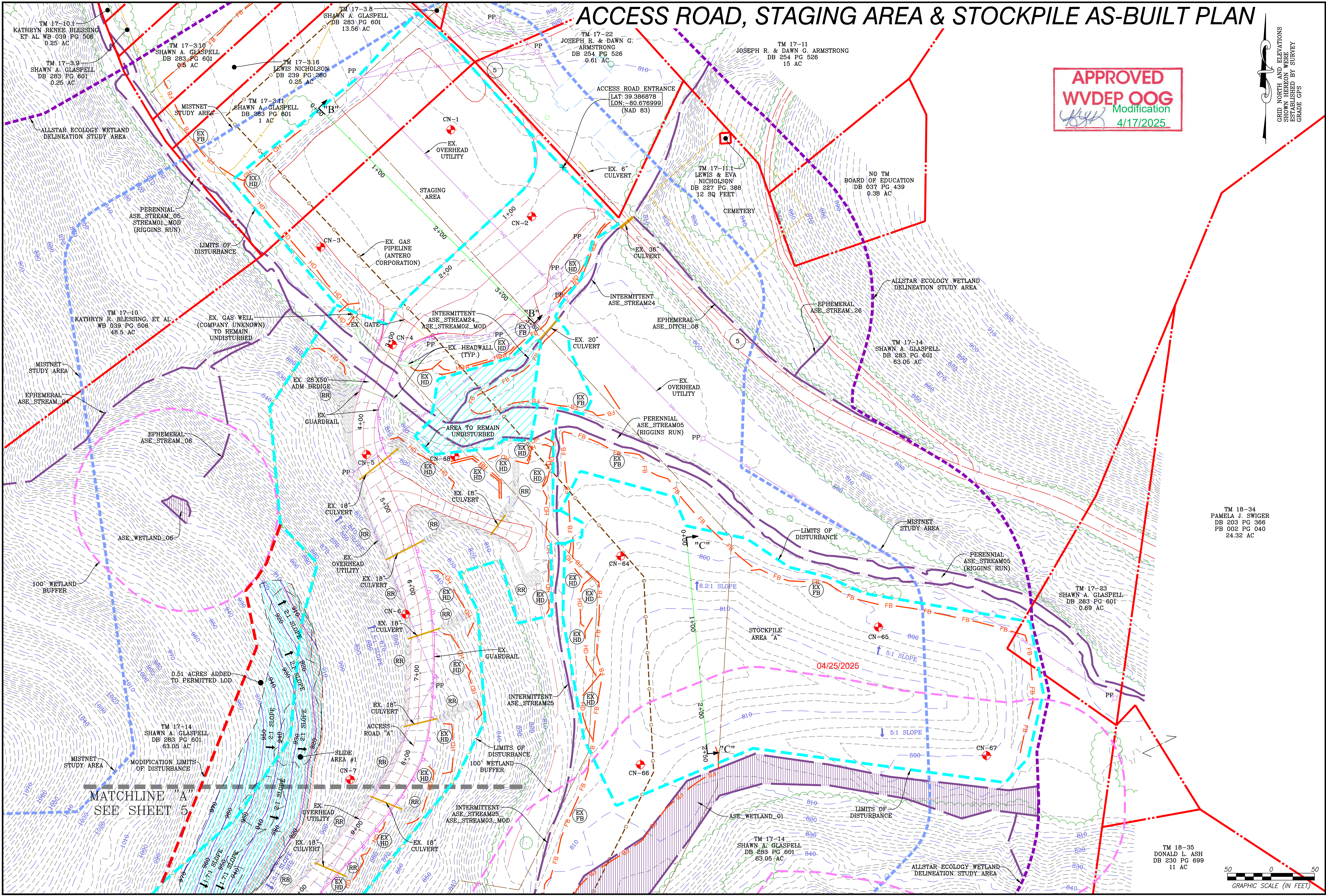
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WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

OVERALL PLAN SHEET INDEX

CRIMSON

WELL PAD & WATER CONTAINMENT PAD
MCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 12/12/2023
SCALE: 1" = 150'
SHEET 3 OF 12



APPROVED
WVDEP OOG
Modification
4/17/2025

GRID NORTH AND ELEVATIONS
SHOWN HEREON WERE
ESTABLISHED BY SURVEY
GRADE GPS

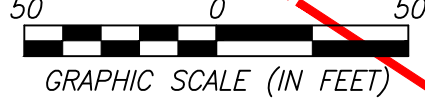
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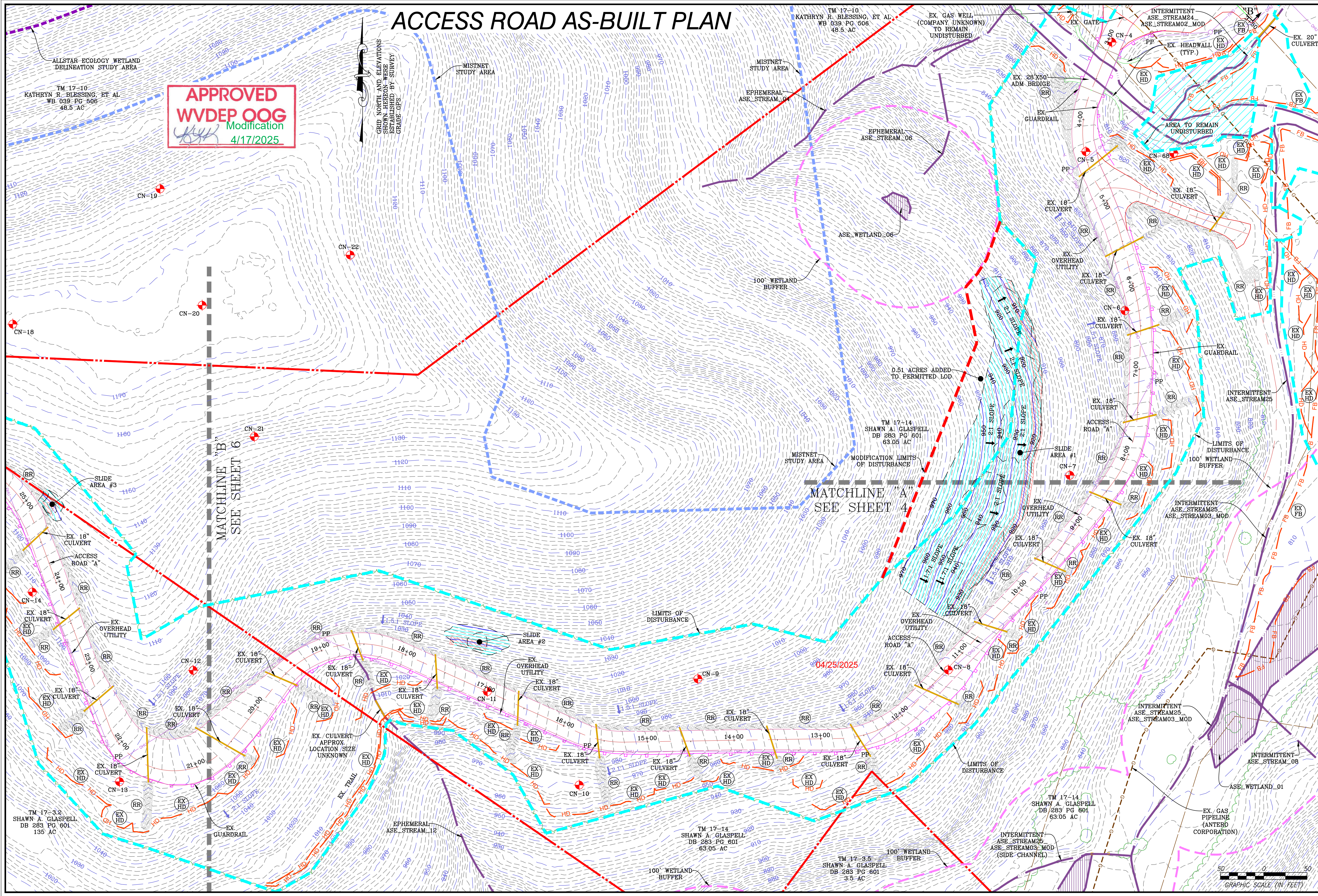
ACCESS ROAD, STAGING AREA & STOCKPILE AS-BUILT PLAN
CRIMSON
WELL PAD & WATER CONTAINMENT PAD
MCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

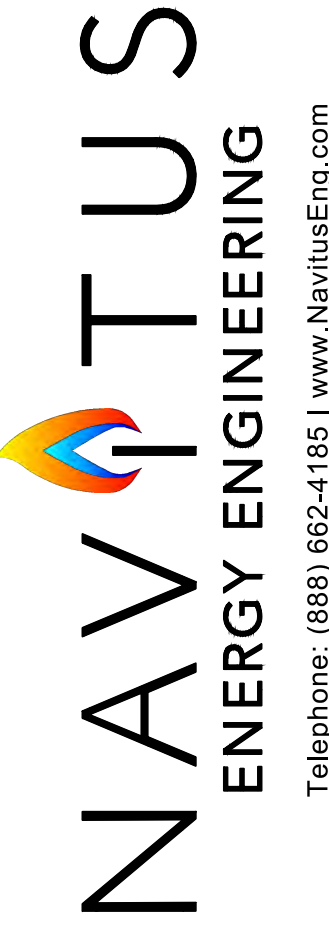


DATE: 12/12/2023
SCALE: 1" = 50'
SHEET 4 OF 12



ACCESS ROAD AS-BUILT PLAN





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ENERGY ENGINEERING
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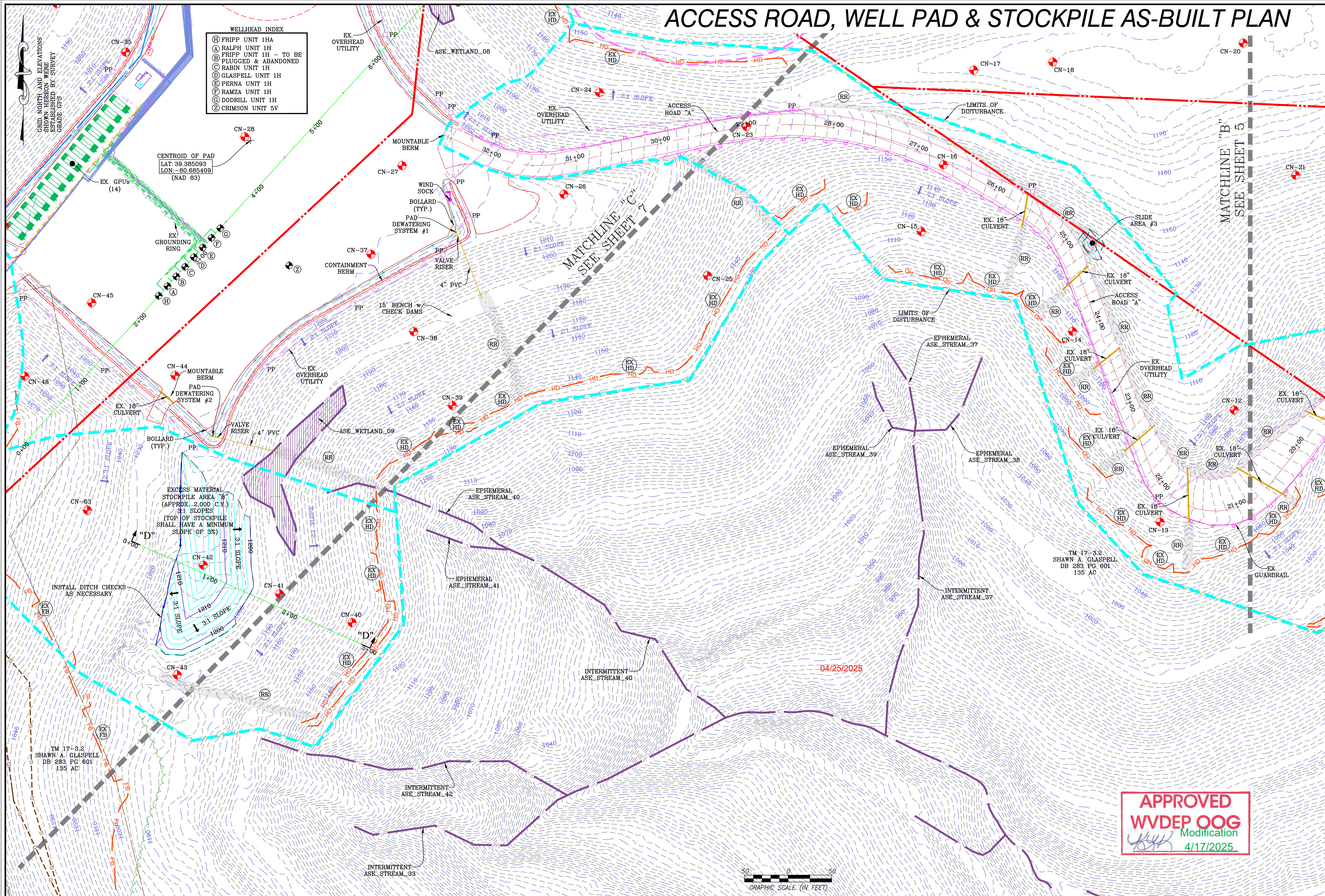
ACCESS ROAD AS-BUILT PLAN

CRIMSON

WELL PAD & WATER CONTAINMENT PAD
MCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 12/12/2023
SCALE: 1" = 50'
SHEET 5 OF 12

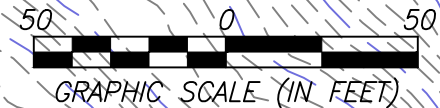


ACCESS ROAD, WELL PAD & STOCKPILE AS-BUILT PLAN

- WELLHEAD INDEX
- (H) FRIPP UNIT 1HA
 - (A) RALPH UNIT 1H - TO BE
 - (B) PLUGGED & ABANDONED
 - (C) RABIN UNIT 1H
 - (D) GLASPELL UNIT 1H
 - (E) PERNA UNIT 1H
 - (F) RAMZA UNIT 1H
 - (G) DODRILL UNIT 1H
 - (Z) CRIMSON UNIT 5V

CENTROID OF PAD
LAT: 39.385093
LON: -80.685409
(NAD 83)

APPROVED
WVDEP OOG
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CORPORATION

ACCESS ROAD, WELL PAD & STOCKPILE AS-BUILT PLAN

CRIMSON

WELL PAD & WATER CONTAINMENT PAD

McLELLAN DISTRICT

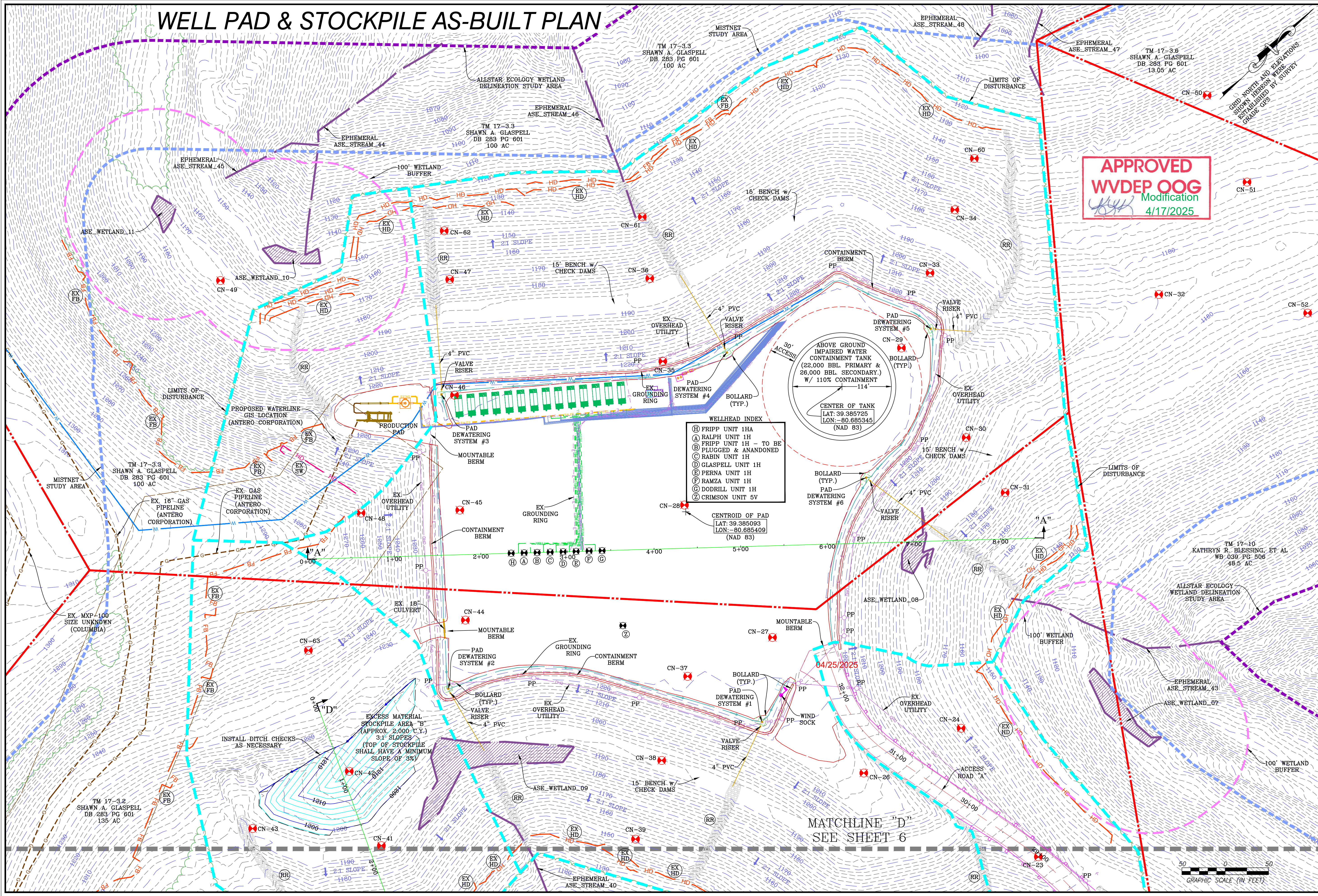
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 12/12/2023

SCALE: 1" = 50'

SHEET 6 OF 12

WELL PAD & STOCKPILE AS-BUILT PLAN



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REVISED PER LOD MODIFICATION	03/07/2025	

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WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

WELL PAD & STOCKPILE AS-BUILT PLAN

CRIMSON

WELL PAD & WATER CONTAINMENT PAD
McCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA

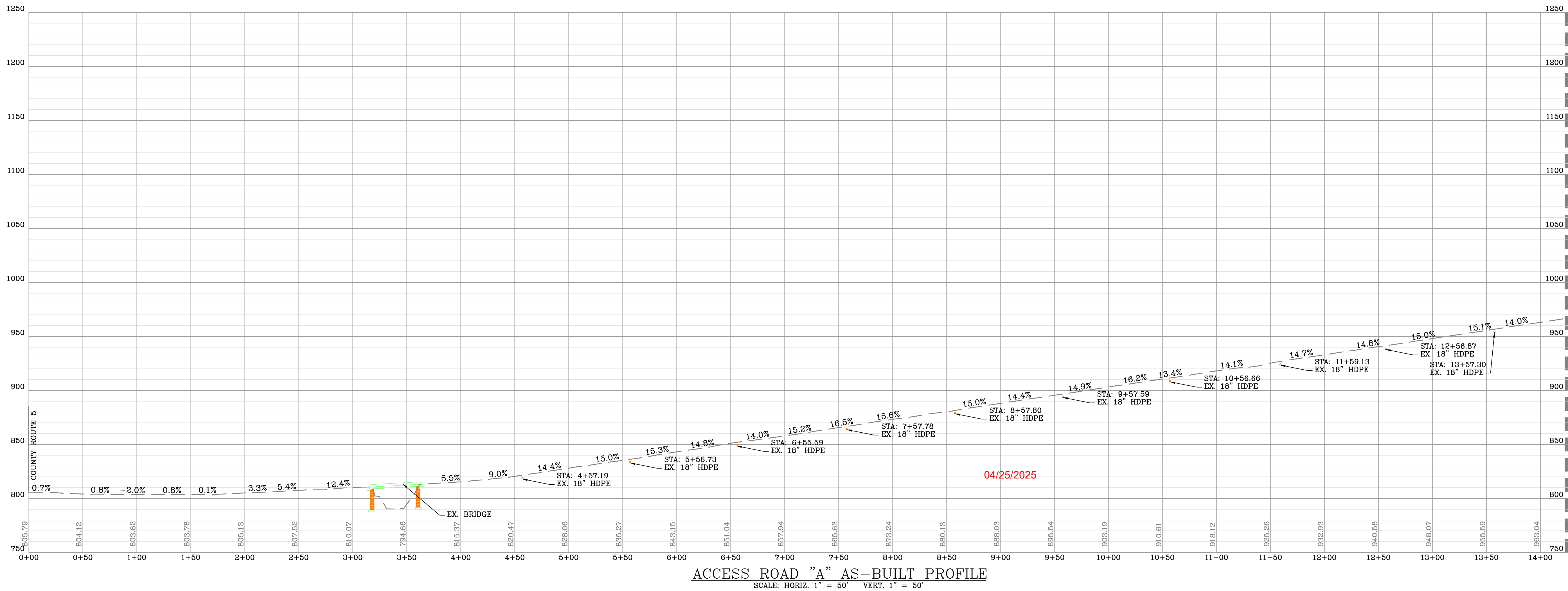
03/07/2025

DATE: 12/12/2023

SCALE: 1" = 50'

SHEET 7 OF 12

ACCESS ROAD AS-BUILT PROFILE



ACCESS ROAD "A" AS-BUILT PROFILE
SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

APPROVED
WVDEP OOG
Modification
4/17/2025

MATCHLINE "F"
SEE SHEET 9

DATE	REVISION
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CRIMSON
WELL PAD & WATER CONTAINMENT PAD
McCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 12/12/2023
SCALE: AS SHOWN
SHEET 8 OF 12

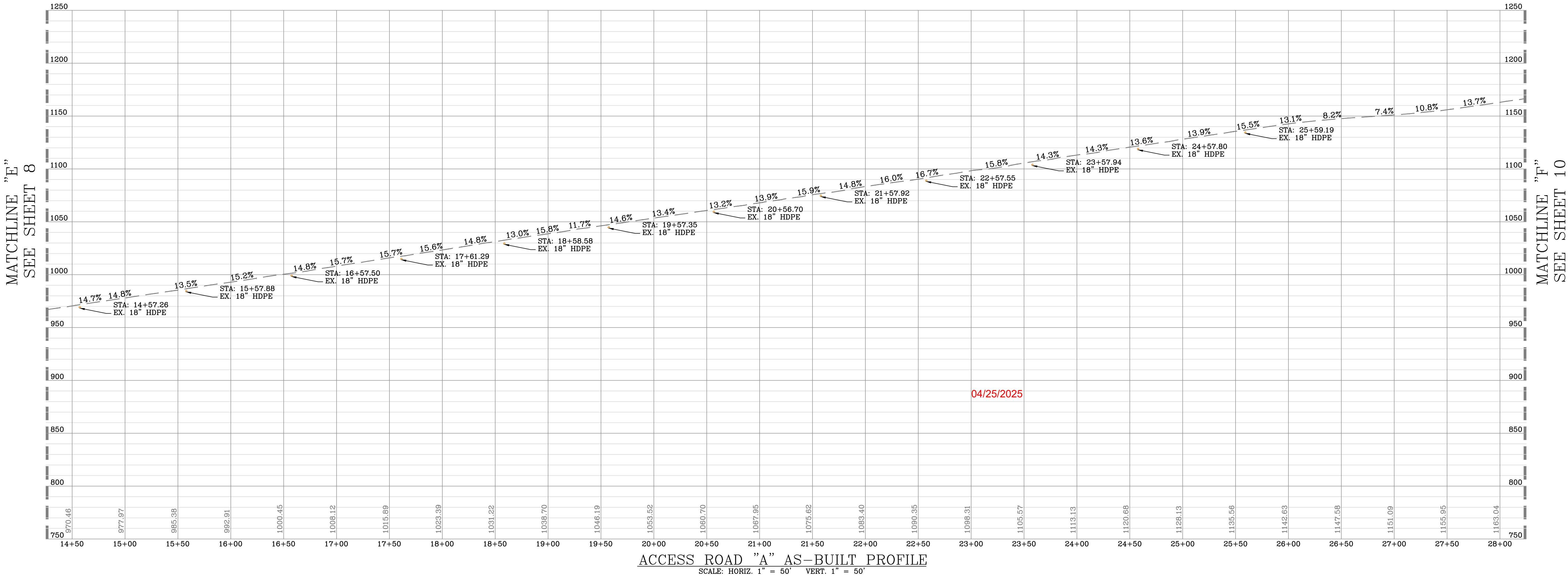
ACCESS ROAD AS-BUILT PROFILE

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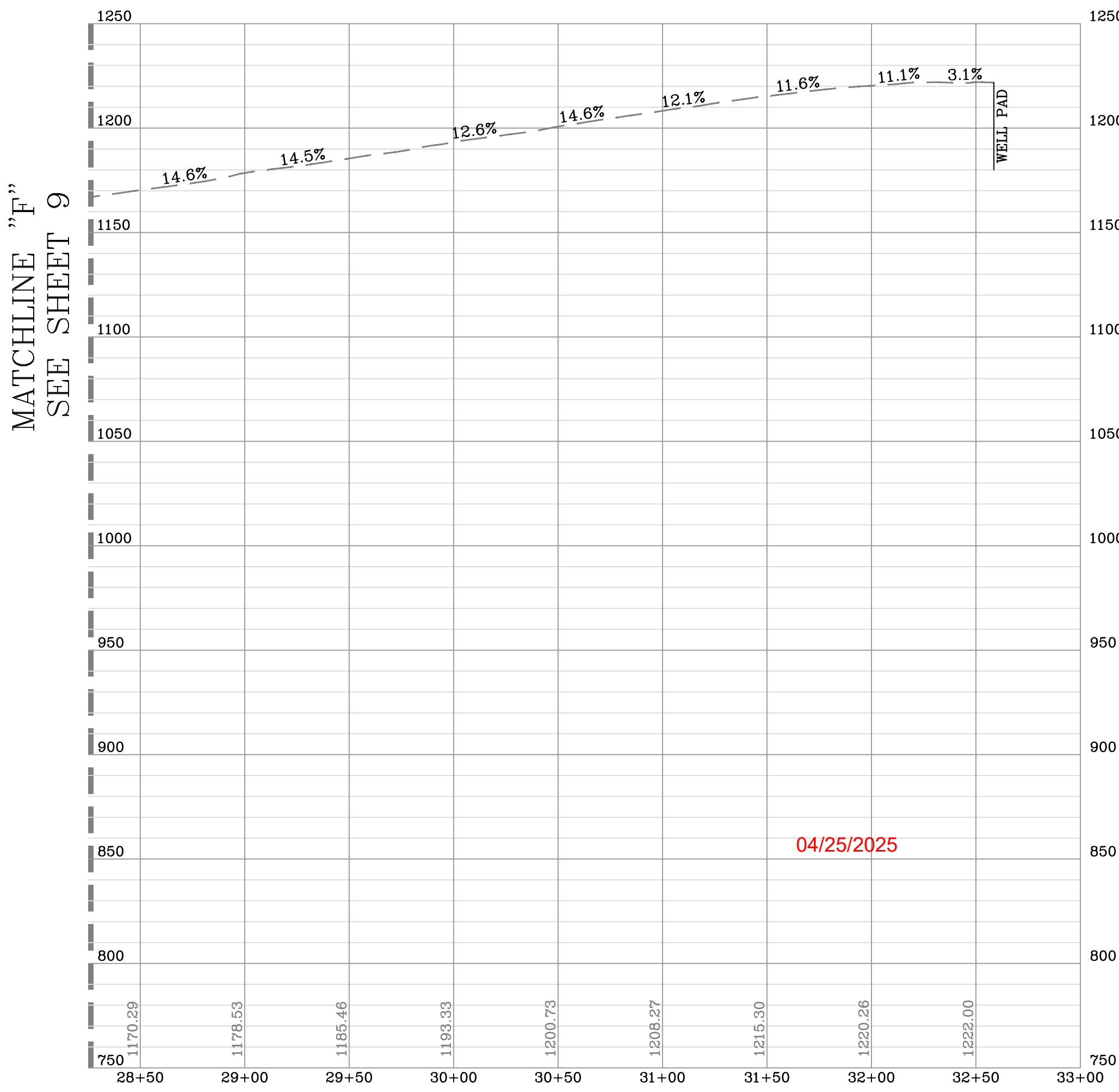
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ACCESS ROAD AS-BUILT PROFILE
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WELL PAD & WATER CONTAINMENT PAD
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DODDRIDGE COUNTY, WEST VIRGINIA



ACCESS ROAD AS-BUILT PROFILE



ACCESS ROAD "A" AS-BUILT PROFILE
SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

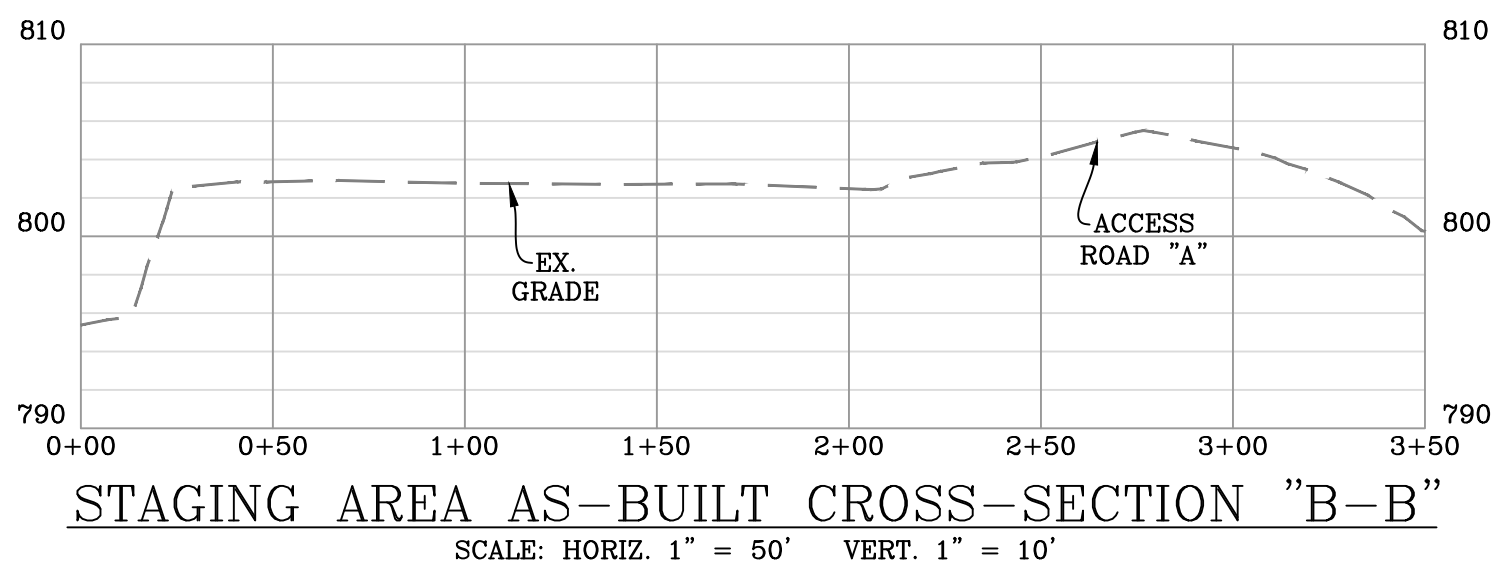
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ACCESS ROAD AS-BUILT PROFILE
CRIMSON
WELL PAD & WATER CONTAINMENT PAD
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DODDRIDGE COUNTY, WEST VIRGINIA



WELL PAD & STAGING AREA AS-BUILT SECTIONS



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WELL PAD & STAGING AREA AS-BUILT SECTIONS

CRIMSON

WELL PAD & WATER CONTAINMENT PAD
McCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



STOCKPILE AS-BUILT SECTIONS

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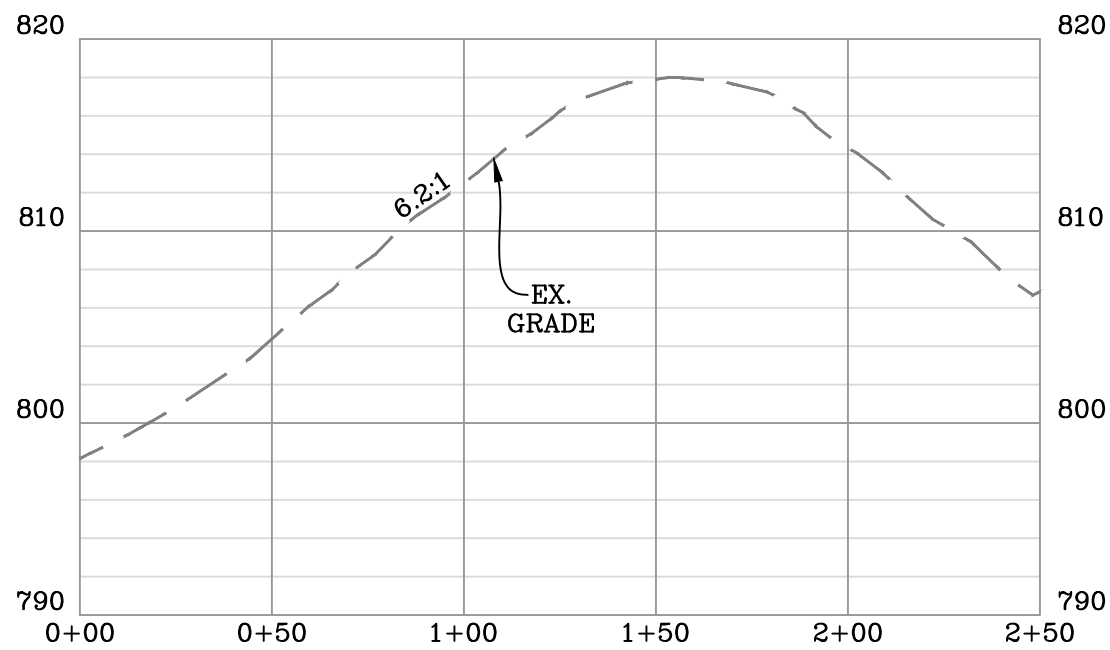


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STOCKPILE AS-BUILT SECTIONS

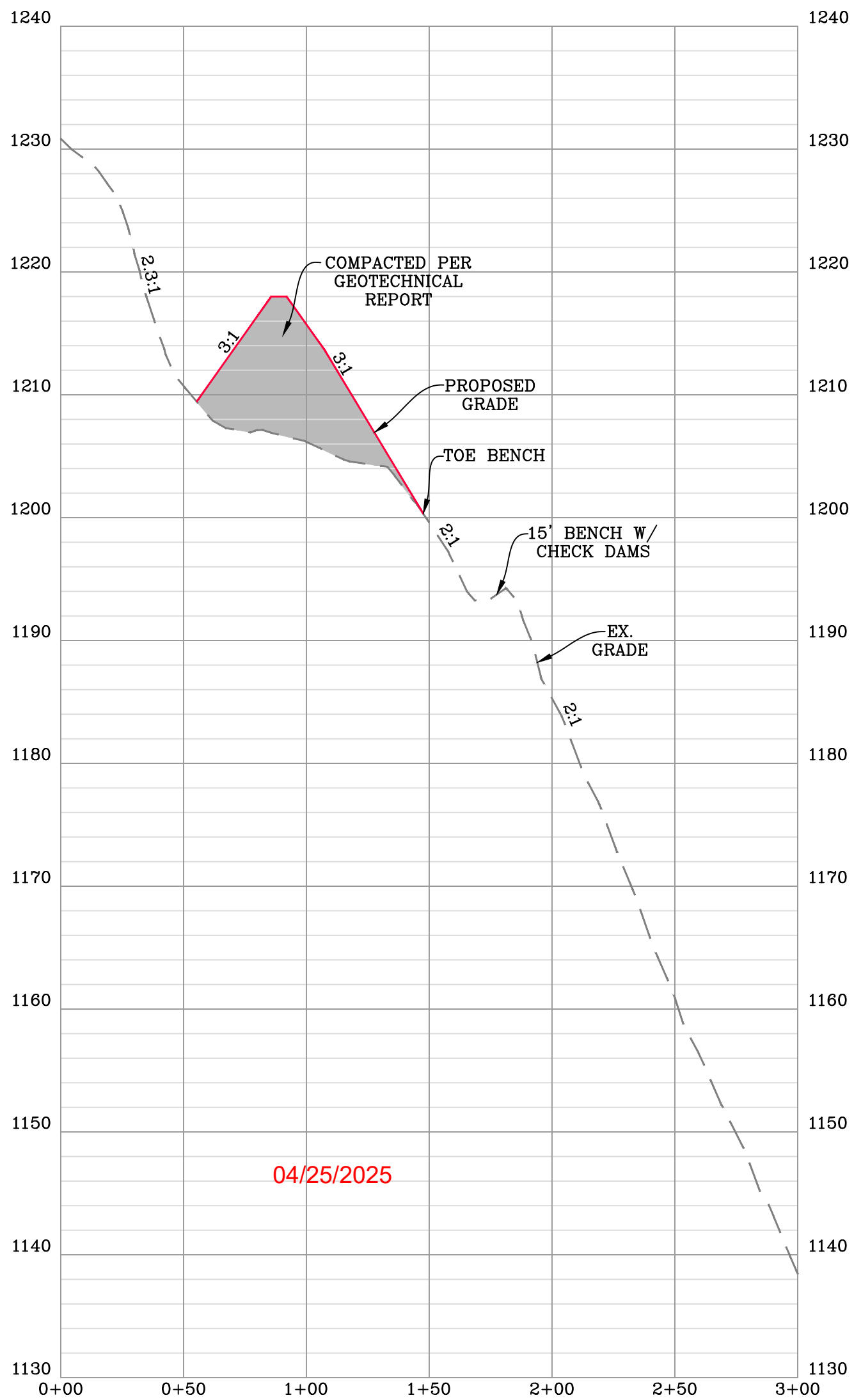
CRIMSON

WELL PAD & WATER CONTAINMENT PAD
McCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



STOCKPILE AREA "A" AS-BUILT CROSS-SECTION "C-C"

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



STOCKPILE AREA "B" AS-BUILT CROSS-SECTION "D-D"

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'

LOCATION COORDINATES:
ACCESS ROAD ENTRANCE
LATITUDE: 39.386878 LONGITUDE: -80.676999 (NAD 83)
LATITUDE: 39.386794 LONGITUDE: -80.677176 (NAD 27)
N 4359760.04 E 527816.33 (UTM ZONE 17 METERS)

CENTER OF TANK
LATITUDE: 39.385725 LONGITUDE: -80.685345 (NAD 83)
LATITUDE: 39.385642 LONGITUDE: -80.685521 (NAD 27)
N 4359629.59 E 527098.04 (UTM ZONE 17 METERS)

CENTROID OF PAD
LATITUDE: 39.385093 LONGITUDE: -80.685409 (NAD 83)
LATITUDE: 39.385009 LONGITUDE: -80.685586 (NAD 27)
N 4359559.36 E 527092.73 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #54017C0045C.

MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY HAS BEEN CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION HAS OBTAINED AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN JULY/AUGUST, 2021 BY ALLSTAR ECOLOGY TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE AUGUST 8, 2021 STREAM AND WETLAND DELINEATION INDEX MAP WAS PREPARED BY ALLSTAR ECOLOGY AND SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP.

GEOTECHNICAL NOTES:

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. ON AUGUST 13 - OCTOBER 5, 2022. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED OCTOBER 31, 2022, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURFACE INVESTIGATION REPORT BY PENNSYLVANIA SOIL & ROCK, INC. FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS:

OPERATOR:

ANTERO RESOURCES CORPORATION
535 WHITE OAKS BLVD
BRIDGEPORT, WV 26330
PHONE: (304) 842-4100
FAX: (304) 842-4102

ELI WAGONER - ENVIRONMENTAL ENGINEER &
REGULATORY MANAGER
OFFICE: (304) 842-4068 CELL: (304) 476-9770

JON McEVERS - SVP OPERATIONS
OFFICE: (303) 357-6799

AARON KUNZLER - CONSTRUCTION MANAGER
OFFICE: (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER
OFFICE: (304) 842-4100 CELL: (304) 627-7405

NOTES:

- ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT IN EXCESS OF 0.5" AND ON A BIWEEKLY BASIS.
- THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND PERMANENTLY SEEDED.
- THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF FEBRUARY 10, 2025. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES.
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS
- THE EXISTING EGRESSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

REPRODUCTION NOTE

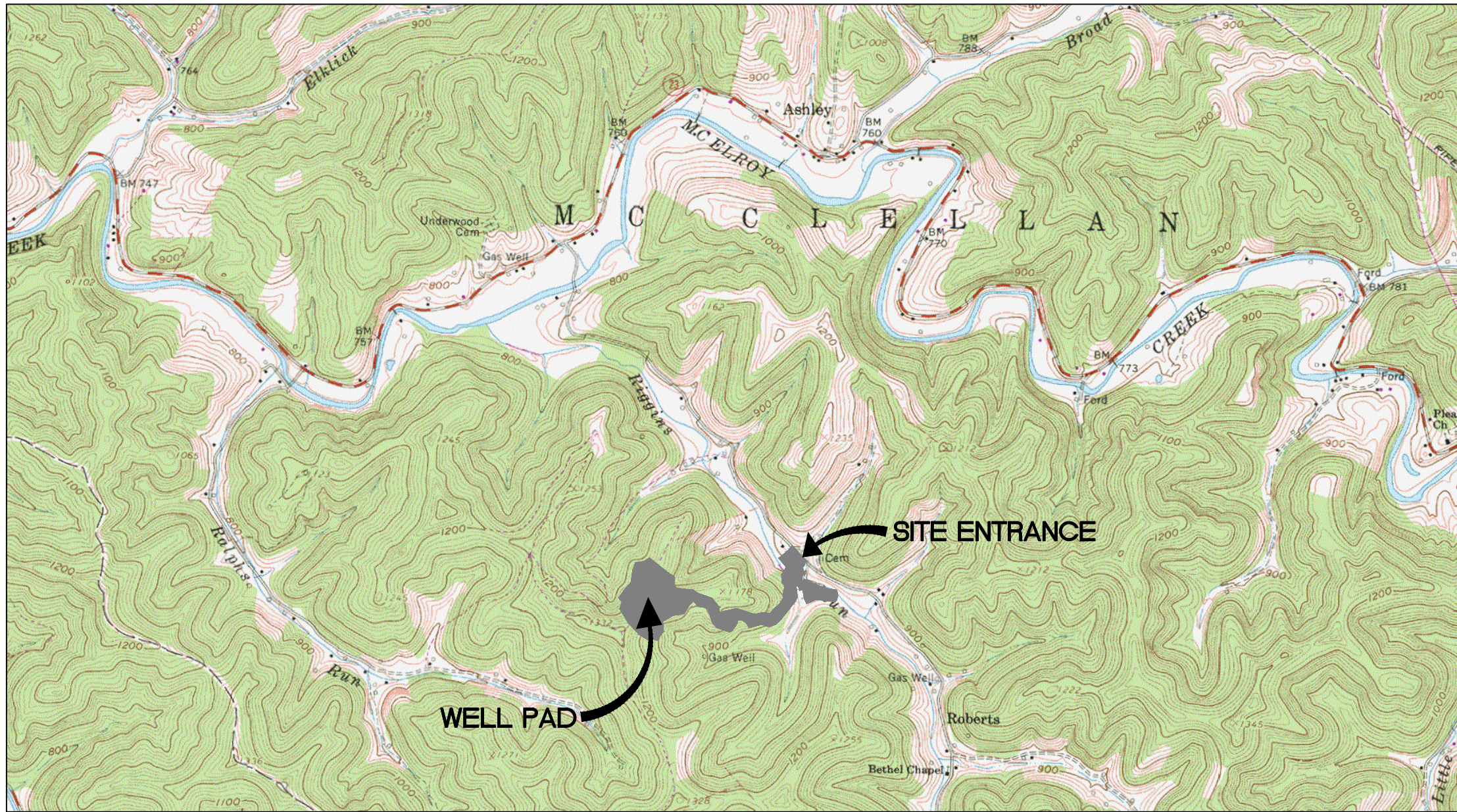
THESE PLANS WERE CREATED TO BE PLOTTED ON 22"X34" (ANSI D) PAPER. HALF SCALE DRAWINGS ARE ON 11"X17" (ANSI B) PAPER.

THESE PLANS WERE CREATED FOR COLOR PLOTTING AND ANY REPRODUCTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

CRIMSON WELL PAD & WATER CONTAINMENT PAD AS-BUILT EROSION & SEDIMENT CONTROL IMPROVEMENT PLANS

MCLELLAN DISTRICT, DODDRIDGE COUNTY, WV
MCELROY CREEK WATERSHED

CENTER POINT USGS 7.5 QUAD MAP(S)

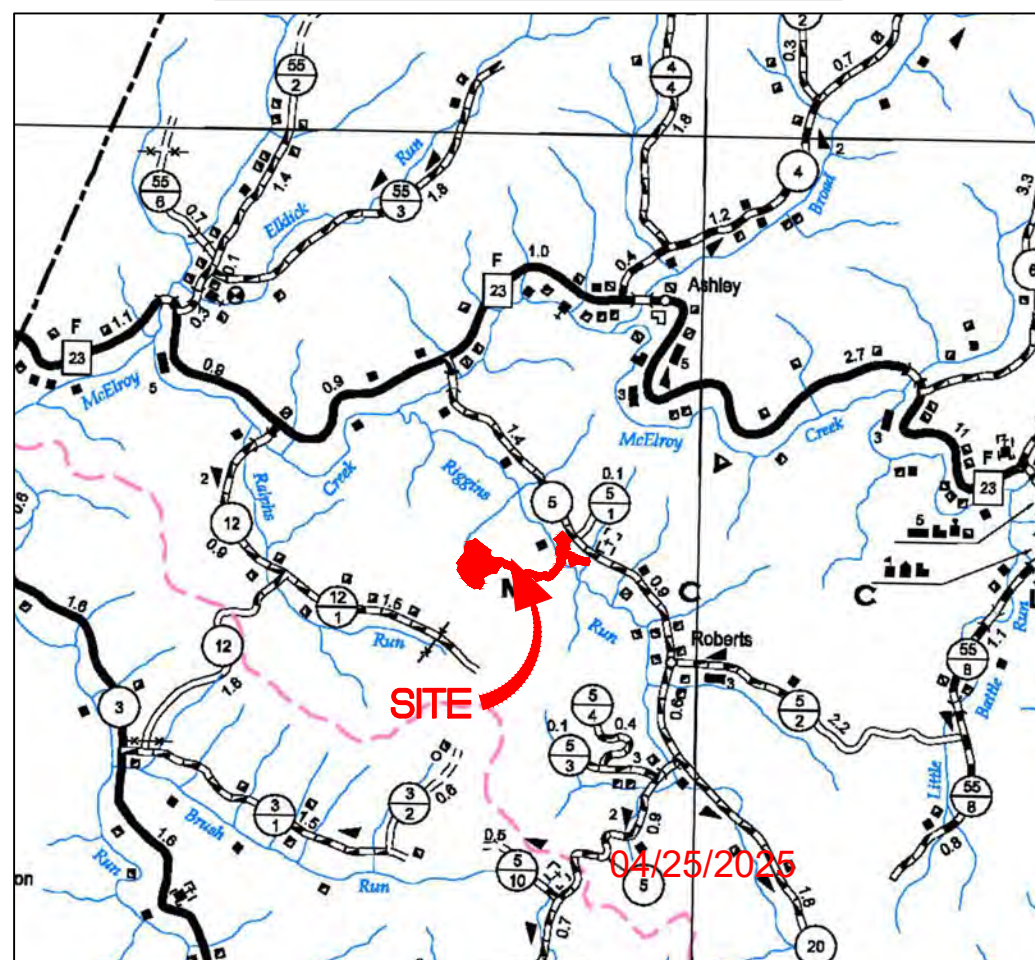


WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

WVDOH COUNTY ROAD MAP



(NOT TO SCALE)

MISS Utility of West Virginia
1-800-245-4848

West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!!

AS-BUILT CERTIFICATIONS:

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.

APPROVED
WVDEP OOG
Modification
4/17/2025

SHEET INDEX:

- 1 - COVER SHEET
- 2 - LEGEND
- 3 - OVERALL PLAN SHEET INDEX
- 4 - ACCESS ROAD, STAGING AREA & STOCKPILE AS-BUILT PLAN
- 5 - ACCESS ROAD AS-BUILT PLAN
- 6 - ACCESS ROAD, WELL PAD & STOCKPILE AS-BUILT PLAN
- 7 - WELL PAD & STOCKPILE AS-BUILT PLAN
- 8-10 - ACCESS ROAD AS-BUILT PROFILE
- 11 - WELL PAD & STAGING AREA AS-BUILT SECTIONS
- 12 - STOCKPILE AS-BUILT SECTIONS

CRIMSON LIMITS OF DISTURBANCE AREA (AC)			
Total Site	Permitted	Modification	Total
Access Road "A" (3,232')	13.26	0.51	13.77
Staging Area	1.53	0.00	1.53
Well Pad	14.46	0.00	14.46
Production Equipment Pad	1.62	0.00	1.62
Excess/Topsoil Material Stockpiles	6.02	0.00	6.02
Total Affected Area	36.89	0.51	37.40
Total Wooded Acres Disturbed	0.00	0.51	0.51
Impacts to Shawn A. Glaspell TM 17-3-11			
Staging Area	0.55	0.00	0.55
Total Affected Area	0.55	0.00	0.55
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-14			
Access Road "A" (1,935')	8.23	0.51	8.74
Staging Area	0.98	0.00	0.98
Excess/Topsoil Material Stockpiles	2.95	0.00	2.95
Total Affected Area	12.16	0.51	12.67
Total Wooded Acres Disturbed	0.00	0.51	0.51
Impacts to Shawn A. Glaspell TM 17-23			
Excess/Topsoil Material Stockpiles	0.02	0.00	0.02
Total Affected Area	0.02	0.00	0.02
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-3-5			
Access Road "A"	0.02	0.00	0.02
Total Affected Area	0.02	0.00	0.02
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-3-2			
Access Road "A" (1,297')	5.01	0.00	5.01
Well Pad	5.48	0.00	5.48
Excess/Topsoil Material Stockpiles	2.91	0.00	2.91
Total Affected Area	13.40	0.00	13.40
Total Wooded Acres Disturbed	0.00	0.00	0.00
Impacts to Shawn A. Glaspell TM 17-3-3			
Well Pad	8.98	0.00	8.98
Production Equipment Pad	1.62	0.00	1.62
Excess/Topsoil Material Stockpiles	0.14	0.00	0.14
Total Affected Area	10.74	0.00	10.74
Total Wooded Acres Disturbed	0.00	0.00	0.00

CRIMSON WETLAND PERMANENT IMPACT (SQUARE FEET)			
Wetland and Impact Cause	Fill (SF)	Total Impact (SF)	Total Impact (AC)
ASE_Wetland09 (Well Pad)	5,477	5,477	0.126
ASE_Wetland08 (Well Pad)	986	986	0.023

CRIMSON PERENNIAL STREAM IMPACT (LINEAR FEET)						
Stream and Impact Cause	Permanent Impacts		Total Permanent Impact (LF)	Temp. Impacts		Total Temp. Impact (LF)
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	
ASE_Stream05_ASE_Stream01_MOD (Riggins Run) (Access Road)	110	0	110	25	57	82
CRIMSON INTERMITTENT STREAM IMPACT (LINEAR FEET)						
Stream and Impact Cause	Permanent Impacts		Total Permanent Impact (LF)	Temp. Impacts		Total Temp. Impact (LF)
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	
ASE_Stream25 (Access Road)	0	0	0	0	38	38
ASE_Stream24_ASE_Stream02_MOD (Access Road)	0	0	0	0	33	33
CRIMSON EPHEMERAL STREAM IMPACT (LINEAR FEET)						
Stream and Impact Cause	Permanent Impacts		Total Permanent Impact (LF)	Temp. Impacts		Total Temp. Impact (LF)
	Culvert / Fill (LF)	Inlets/Outlets Structures (LF)		Cofferdam/ E&S Controls (LF)	Distance To L.O.D. (LF)	
ASE_Stream_12 (Access Road)	33	18	51	36	4	40
ASE_Stream_40 (Well Pad)	41	19	60	12	12	24
ASE_Stream_46 (Well Pad)	30	0	30	21	8	29
ASE_Stream_43 (Well Pad)	0	0	0	9	6	15

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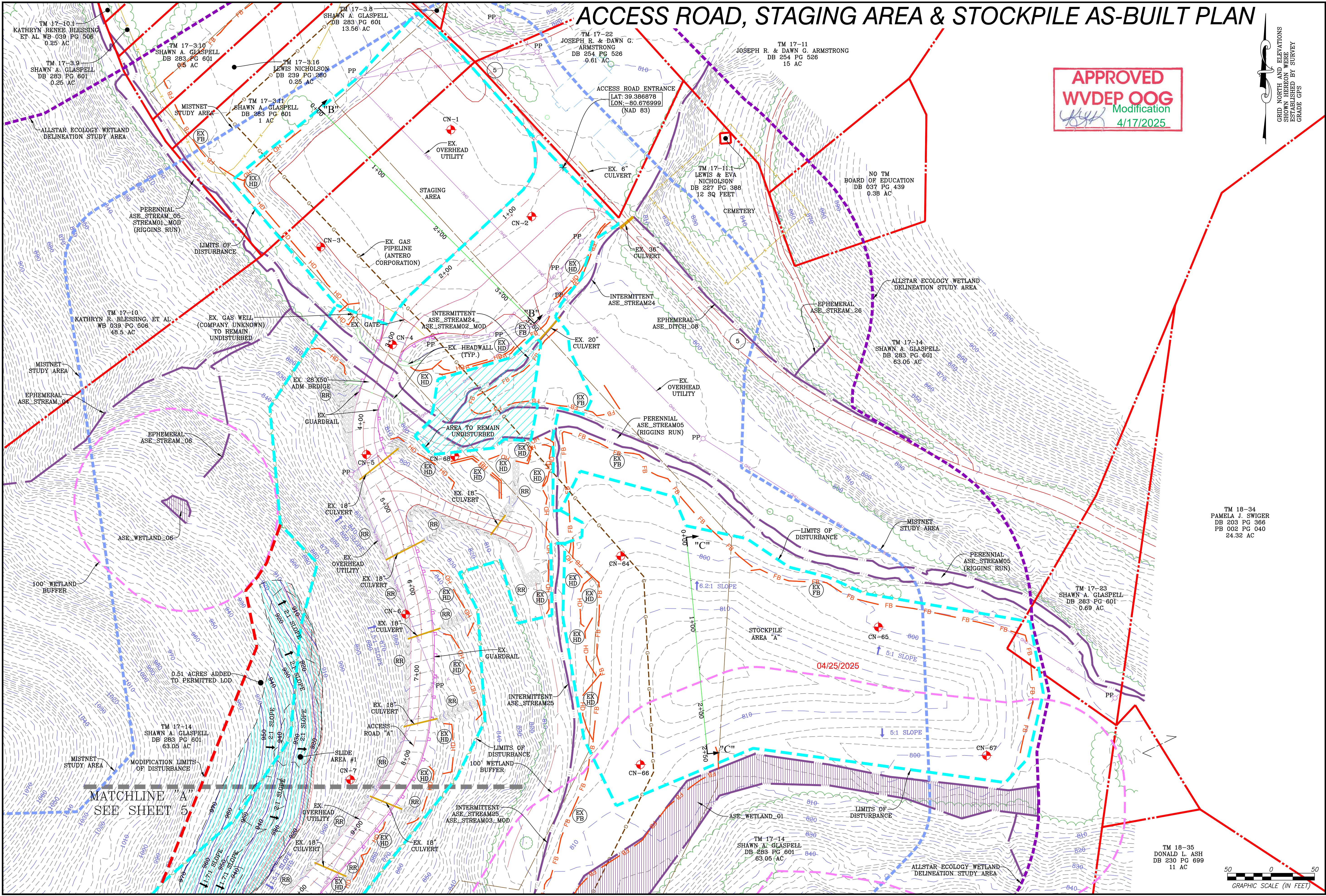
COVER SHEET
CRIMSON
WELL PAD & WATER CONTAINMENT PAD
MCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA



DATE: 12/12/2023

SCALE: AS SHOWN

SHEET 1 OF 12



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4/17/2025

GRID NORTH AND ELEVATIONS
SHOWN HEREON WERE
ESTABLISHED BY SURVEY
GRADE GPS

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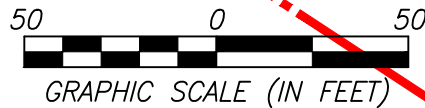

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ACCESS ROAD, STAGING AREA & STOCKPILE AS-BUILT PLAN
CRIMSON
WELL PAD & WATER CONTAINMENT PAD
MCLELLAN DISTRICT
DODDRIDGE COUNTY, WEST VIRGINIA


03/07/2025

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SHEET 4 OF 12

TM 18-35
DONALD L. ASH
DB 230 PG 699
11 AC




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ACCESS ROAD AS-BUILT PLAN



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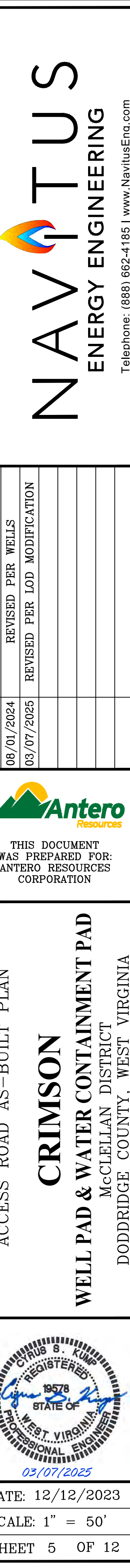
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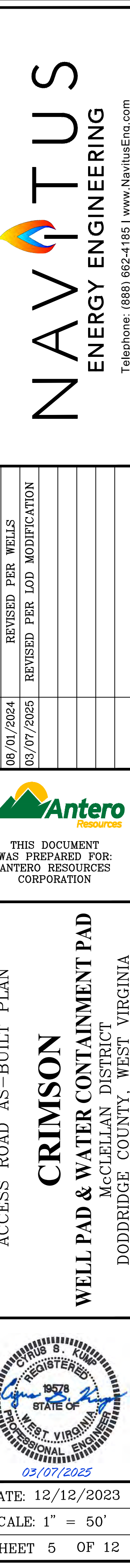
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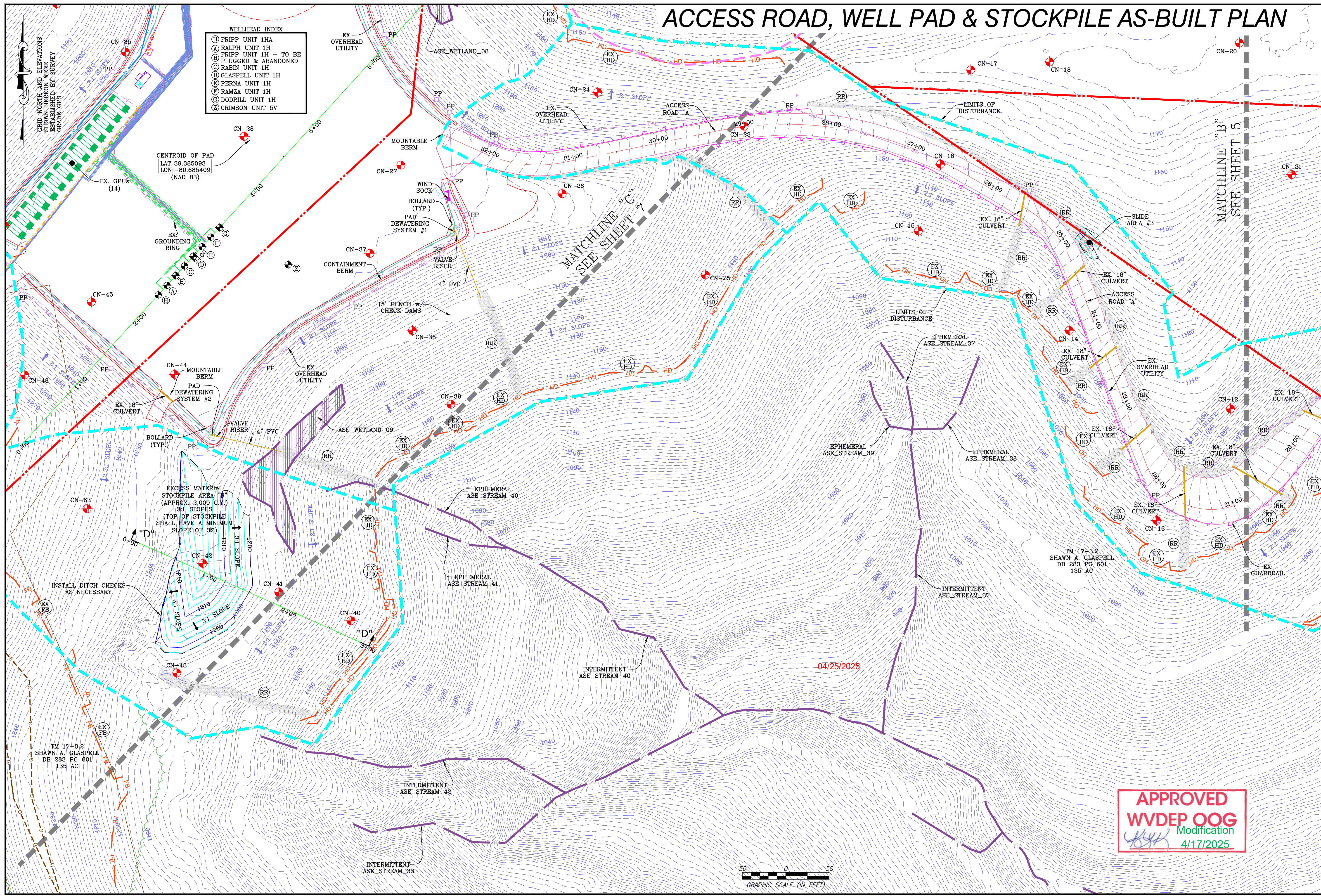
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ACCESS ROAD, WELL PAD & STOCKPILE AS-BUILT PLAN

- WELLHEAD INDEX
- Ⓜ FRIPP UNIT 1HA
 - Ⓜ RALPH UNIT 1H - TO BE
 - Ⓜ PLUGGED & ABANDONED
 - Ⓜ RABIN UNIT 1H
 - Ⓜ GLASPELL UNIT 1H
 - Ⓜ PERNA UNIT 1H
 - Ⓜ RAMZA UNIT 1H
 - Ⓜ DODRILL UNIT 1H
 - Ⓜ CRIMSON UNIT 5V

CENTROID OF PAD
LAT: 39.385093
LON: -80.685409
(NAD 83)

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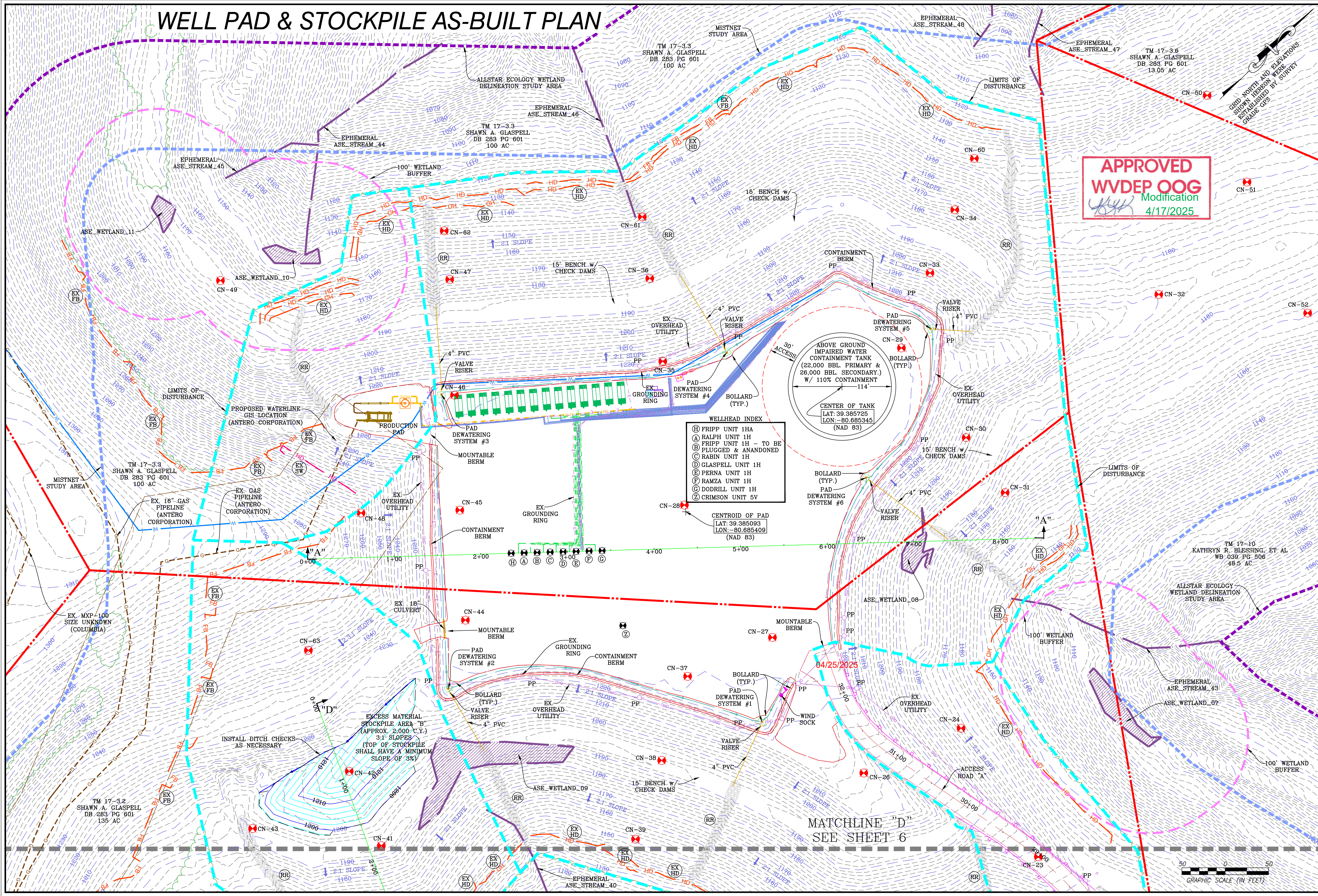
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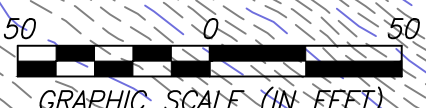
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SHEET 6 OF 12

WELL PAD & STOCKPILE AS-BUILT PLAN



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MATCHLINE "D"
SEE SHEET 6



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