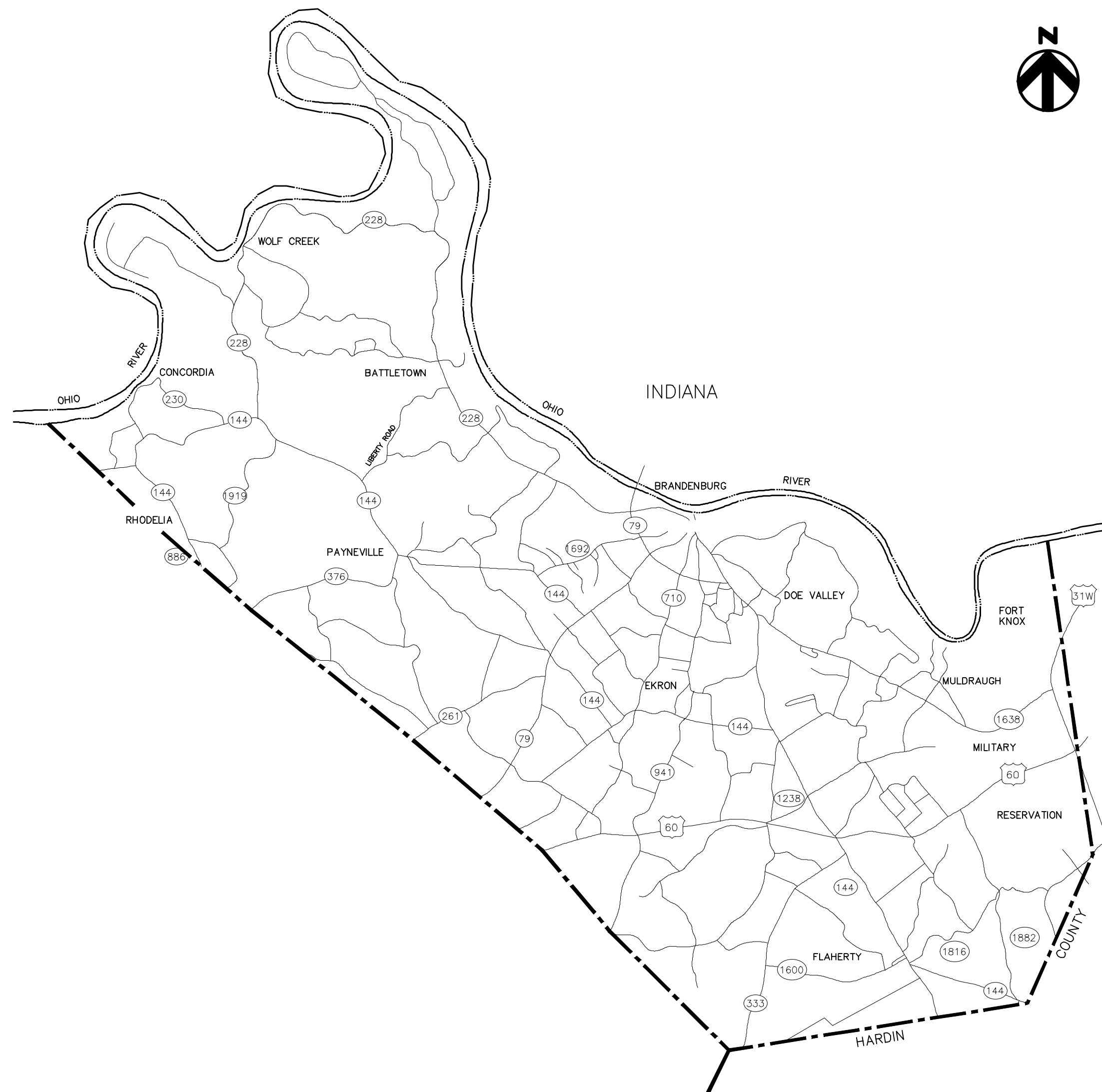


MEADE COUNTY WATER DISTRICT



VICINITY MAP NTS



Contract Drawings For

# Meade County Water District 2019 Water System Improvements

General / Civil

Project No. 10175028

Louisville, KY January 2021

## INDEX OF DRAWINGS

### GENERAL

- G-01 COVER
- G-02 GENERAL NOTES, UTILITY INFORMATION, AND LEGEND
- G-03 PLAN INDEX SHEET

### CIVIL

#### LINE EXTENSIONS

NOT IN CONTRACT	C-01	LINE "A" - STA. 0+00 TO STA. 18+00	KY 1600 - ST. MARTINS ROAD	
	C-02	LINE "A" - STA. 18+00 TO STA. 36+00	KY 1600 - ST. MARTINS ROAD	
	C-03	LINE "A" - STA. 36+00 TO STA. 54+00	KY 1600 - ST. MARTINS ROAD	
	C-04	LINE "A" - STA. 54+00 TO STA. 72+00	KY 1600 - ST. MARTINS ROAD	
	C-05	LINE "A" - STA. 72+00 TO STA. 83+50	KY 1600 - ST. MARTINS ROAD	
	C-06	LINE "A1" - STA. 0+00 TO STA. 18+00	VESSELS ROAD	
	C-07	LINE "A1" - STA. 18+00 TO STA. 30+00	VESSELS ROAD	
	C-08	LINE "A2" - STA. 0+00 TO STA. 18+00	TUCKER ROAD	
	C-09	LINE "A2" - STA. 18+00 TO STA. 25+50	TUCKER ROAD	
	C-10	LINE "A3" - STA. 0+00 TO STA. 37+00	CLARKSON ROAD	
	C-11	LINE "A3" - STA. 37+00 TO STA. 74+00	CLARKSON ROAD	
	C-12	LINE "A3" - STA. 74+00 TO STA. 109+50	CLARKSON ROAD	
	C-13	LINE "B" - STA. 0+00 TO STA. 18+00	KY 1238 - STITH VALLEY ROAD	
	C-14	LINE "B" - STA. 18+00 TO STA. 36+00	KY 1238 - STITH VALLEY ROAD	
	C-15	LINE "B" - STA. 36+00 TO STA. 54+00	KY 1238 - STITH VALLEY ROAD	
C-16	LINE "B" - STA. 54+00 TO STA. 77+00	KY 1238 - STITH VALLEY ROAD / SPRINGDALE ROAD		
C-17	LINE "B" - STA. 77+00 TO STA. 95+00	SPRINGDALE ROAD		
C-18	LINE "C" - STA. 0+00 TO STA. 18+00	KENNEDY ROAD		
ALTERNATE NO. 1	C-19	LINE "C" - STA. 18+00 TO STA. 39+00	KENNEDY ROAD / KY 710 - OLD STATE ROAD	
	C-20	LINE "C" - STA. 39+00 TO STA. 57+50	KY 710 - OLD STATE ROAD	
	C-21	LINE "C" - STA. 57+50 TO STA. 75+00	KY 710 - OLD STATE ROAD	
	C-22	LINE "C1" - STA. 0+00 TO STA. 16+50	RIDGE POINT DRIVE	
	C-23	LINE "C2" - STA. 0+00 TO STA. 17+50	POINT SALEM ROAD	
	C-24	LINE "D" - STA. 0+00 TO STA. 21+00	COUNTRY LANE	
	C-25	LINE "E" - STA. 0+00 TO STA. 18+00	KY 703 - SANDY HILL ROAD	
	C-26	LINE "E" - STA. 18+00 TO STA. 37+00	KY 703 - SANDY HILL ROAD	
	ALTERNATE NO. 2	C-27	LINE "E1" - STA. 0+00 TO STA. 15+50	GOBLER KNOB ROAD
		C-28	LINE "F" - STA. 0+00 TO STA. 18+00	CHARLIE PILE ROAD
		C-29	LINE "F" - STA. 18+00 TO STA. 36+00	CHARLIE PILE ROAD
		C-30	LINE "F" - STA. 36+00 TO STA. 42+50	CHARLIE PILE ROAD
		C-31	LINE "F1" - STA. 0+00 TO STA. 25+00	GUY COURT
		C-32	LINE "F2" - STA. 0+00 TO STA. 23+00	FALLEN ROAD / OAKS LANE
		C-33	LINE "G" - STA. 0+00 TO STA. 11+00	US 60
C-34		LINE "H" - STA. 0+00 TO STA. 15+50	FORREST HILLS ROAD	
C-35		LINE "I" - STA. 0+00 TO STA. 15+50	GREEN MEADOWS ROAD	
ALTERNATE NO. 3		C-36	LINE "1" - STA. 0+00 TO STA. 13+00	FRED FACKLER ROAD
		C-37	LINE "1" - STA. 13+00 TO STA. 35+00	FRED FACKLER ROAD
		C-38	LINE "1" - STA. 35+00 TO STA. 57+00	FRED FACKLER ROAD
		C-39	LINE "1" - STA. 57+00 TO STA. 66+50	FRED FACKLER ROAD
		C-40	LINE "2" - STA. 0+00 TO STA. 24+50	TAMMY LANE & WILLARDS LANE
		C-41	LINE "3" - STA. 0+00 TO STA. 21+00	BUCK GROVE ROAD
	C-42	LINE "4" - STA. 0+00 TO STA. 6+50	M. GAIN ROAD / KY 1638 - OLD MILL ROAD	
	C-43	LINE "5" - STA. 0+00 TO STA. 19+00	WHELAN ROAD	
	C-44	LINE "6" - STA. 0+00 TO STA. 18+00	US 60	
	C-45	LINE "6" - STA. 18+00 TO STA. 37+00	US 60	
	C-46	LINE "7" - STA. 0+00 TO STA. 18+00	FARRIS ROAD	
	C-47	LINE "7" - STA. 18+00 TO STA. 36+50	FARRIS ROAD	
	C-48	LINE "8" - STA. 0+00 TO STA. 16+00	KY 1238 - GARRETT ROAD	
	C-49	LINE "8" - STA. 16+00 TO STA. 33+00	KY 1238 - GARRETT ROAD	
	C-50	LINE "8" - STA. 33+00 TO STA. 50+00	KY 1238 - GARRETT ROAD	
C-51	LINE "8" - STA. 50+00 TO STA. 65+00	KY 1238 - GARRETT ROAD		
C-52	LINE "9" - STA. 0+00 TO STA. 13+00 & LINE "9A" - STA. 0+00 TO STA. 9+50	SPIKE BUCK DRIVE & FORK HORN LANE / DOE COURT		
C-53	LINE "10" - STA. 0+00 TO STA. 12+50 & LINE "10A" - STA. 0+00 TO STA. 4+50	FAWN LANE & WHITE TAIL COURT		

#### GRID TIES

- C-54 STANDARD DETAILS
- C-55 MAINTENANCE OF TRAFFIC DETAILS
- C-56 EPSC NOTES AND TYPICAL SERVICE LAYOUT DETAIL
- C-57 EPSC DETAILS

### RECORD DRAWING

THIS DRAWING HAS BEEN REVISED FROM THE ORIGINAL CONTRACT DRAWING BASED ON DATA SUPPLIED BY THE CONTRACTOR TO SHOW MAJOR CHANGES MADE DURING CONSTRUCTION. NO WARRANTY IS MADE FOR COMPLETE ACCURACY OF THIS DRAWING.

HDR ENGINEERING, INC.

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

**GENERAL NOTES:**

1. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON AVAILABLE DRAWINGS AND FIELD INFORMATION. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS BEFORE EXCAVATING FOR NEW FACILITIES. CONTRACTOR SHALL INVESTIGATE ALL AREAS FOR THE PRESENCE OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
2. KENTUCKY STATUTE (KRS 367) REQUIRES THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL NOTIFY AND ALERT ALL UTILITY COMPANIES IN THE AREA AND/OR UNDERGROUND PROTECTION SERVICE SUCH AS KENTUCKY811 (811) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.
3. WHERE THE WATERLINE IS OUTSIDE OF RIGHT-OF-WAY THE PERMANENT EASEMENT IS TYPICALLY 15 FEET WIDE, UNLESS OTHERWISE NOTED ON THE PLANS.
4. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK THAT REQUIRES EXISTING UTILITIES TO BE TEMPORARILY TAKEN OUT OF SERVICE.
5. LOCATIONS SHOWN FOR AIR RELEASE VALVES ARE APPROXIMATE. ACTUAL HIGH POINTS SHALL BE FIELD LOCATED AND APPROVED BY THE ENGINEER PRIOR TO VALVE INSTALLATION.
6. STATIONS SHOWN ON THE WATER LINE ARE FOR REFERENCE ONLY AND DO NOT REFLECT THE EXACT LENGTH OF PIPE REQUIRED FOR CONSTRUCTION.

**KENTUCKY DEPARTMENT OF HIGHWAYS (KDOH) GENERAL NOTES:**

1. WATER MAIN INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3 TO 5 FEET OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
2. WATER MAIN LOCATED MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES.
3. WATER VALVES, HYDRANTS AND OTHER APPURTENANCES SHALL BE INSTALLED NO CLOSER THAN 3- FEET FROM DITCH LINE.
4. UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROADS PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY FREE BORING. OPEN CUTTING OF THESE ENTRANCES WILL BE CONSIDERED ON A CASE BY CASE BASIS. WRITTEN CONSENT MUST BE OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY KDOH AND MCWD.
5. WATER MAIN SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCH LINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
6. HYDRANTS OR UTILITY SERVICE BOXES SHOULD BE LOCATED WITHIN 2 FEET OF RIGHT-OF-WAY LINE OR OUTSIDE THE RIGHT-OF-WAY.
7. CONTACT STEVE HALL AT KDOH DISTRICT #4, ELIZABETHTOWN, KY. AT (270) 766-5066 PRIOR TO BEGINNING WORK.

**UTILITY INFORMATION:**

WATER:	MEADE COUNTY WATER DISTRICT HARDIN COUNTY WATER DISTRICT NO. 1	(270) 422-5006 (270) 351-3222
ELECTRIC:	MEADE COUNTY RECC	(270) 422-2162
CABLE:	INTERMEDIATE	(270) 422-4994
TELEPHONE:	BRANDENBURG TELEPHONE COMPANY	(270) 422-2121
GAS:	ELIZABETHTOWN GAS CONTACT: MATTHEW HOBBS TEXAS GAS MONUMENT CHEMICAL CONTACT: DANNY WILLIAMS	(270) 765-6121 (270) 926-8686 (270) 422-6233

**TRANSPORTATION INFORMATION:**

STATE:	KDOH DISTRICT #4 ELIZABETHTOWN, KY. CONTACT: CHARLES MASON	(270) 766-5066
COUNTY:	MEADE COUNTY ROAD DEPARTMENT BRANDENBURG, KY. CONTACT: JEFF PADGETT	(270) 422-3577

**SOURCE OF CONTROL**

KENTUCKY STATE PLANE SINGLE ZONE  
NORTH AMERICAN DATUM OF 1983 (NAVD83)



**LEGEND**

PROPOSED	EXISTING	
		WATER LINE
		GATE VALVE & BOX
		FIELD LOCATED WATER VALVE
		WATER METER
		FIELD LOCATED WATER METER
		FLUSHING HYDRANT ASSEMBLY (INCLUDES VALVE)
		AIR RELEASE VALVE
		PRESSURE REDUCING VALVE (PRV)
		BENDS (90°, 45°, 22-1/2°, 11-1/4°)
		REDUCER
		LEAK DETECTION ASSEMBLY
		FREE BORE
		PROPOSED EASEMENT
		BORE AND JACK/OPEN CUT
		LINE MARKER
		RIGHT-OF-WAY
		PROPERTY LINE
		CREEK
		GAS MAIN
		OVERHEAD UTILITY LINE
		FIBER OPTIC CABLE
		UNDERGROUND CABLE TV
		UNDERGROUND TELEPHONE
		STORM PIPE
		EDGE OF PAVEMENT
		EDGE OF SHOULDER
		GRAVEL DRIVE
		ASPHALT PAVEMENT DRIVE
		CONCRETE PAVEMENT DRIVE

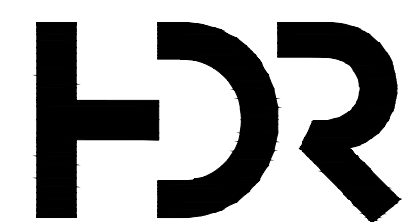
**RECORD DRAWING**

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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

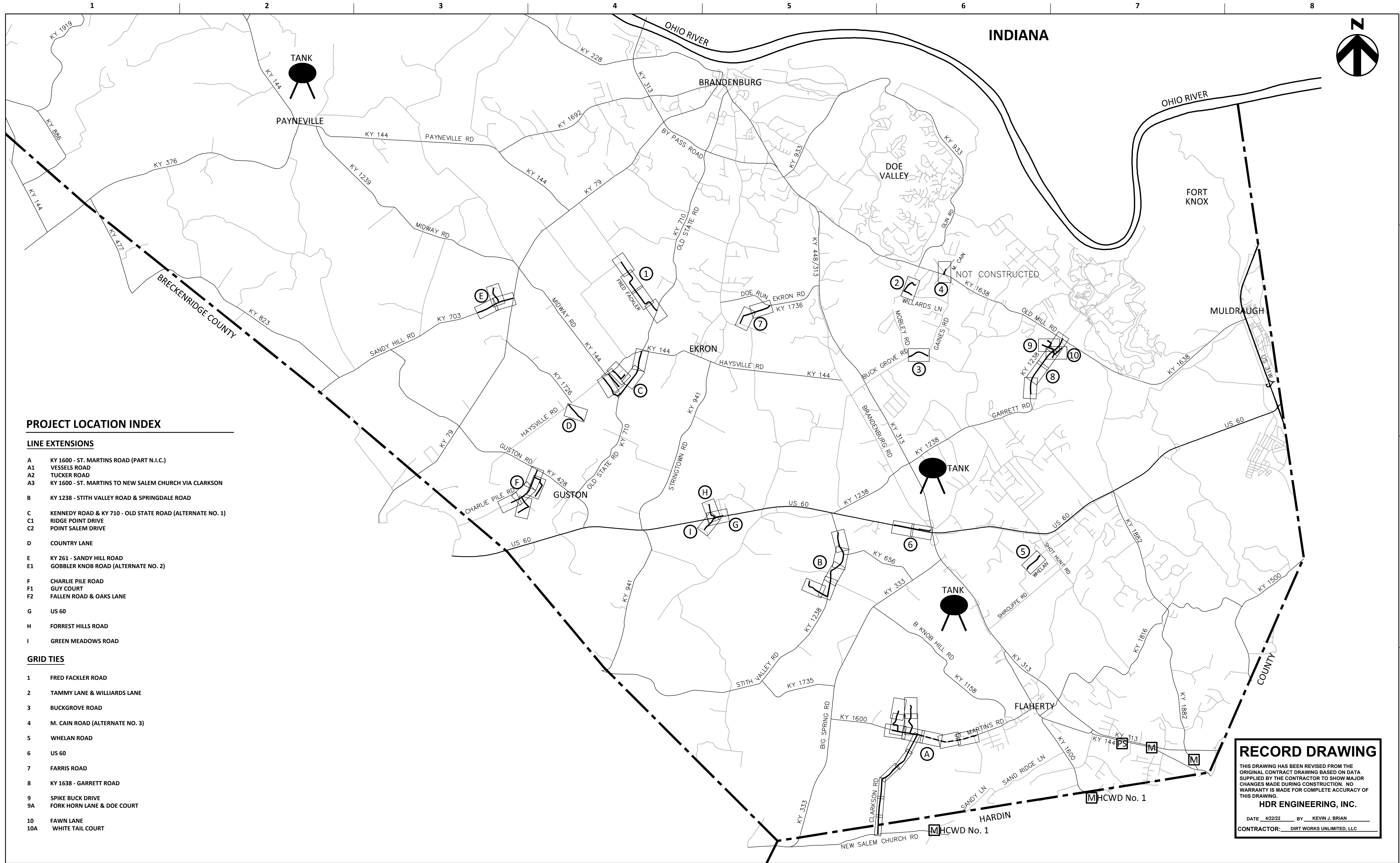
MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
MEADE COUNTY, KENTUCKY

**GENERAL GENERAL NOTES AND LEGEND**



FILENAME G-02.dwg  
SCALE NONE

SHEET  
**G-02**



**PROJECT LOCATION INDEX**

**LINE EXTENSIONS**

- A KY 1600 - ST. MARTINS ROAD (PART N.I.C.)
- A1 VESSELS ROAD
- A2 TUCKER ROAD
- A3 KY 1600 - ST. MARTINS TO NEW SALEM CHURCH VIA CLARKSON
- B KY 1238 - STITH VALLEY ROAD & SPRINGDALE ROAD
- C KENNEDY ROAD & KY 710 - OLD STATE ROAD (ALTERNATE NO. 1)
- C1 RIDGE POINT DRIVE
- C2 POINT SALEM DRIVE
- D COUNTRY LANE
- E KY 261 - SANDY HILL ROAD
- E1 GOBBLER KNOB ROAD (ALTERNATE NO. 2)
- F CHARLIE PILE ROAD
- F1 GUY COURT
- F2 FALLEN ROAD & OAKS LANE
- G US 60
- H FORREST HILLS ROAD
- I GREEN MEADOWS ROAD

**GRID TIES**

- 1 FRED FACKLER ROAD
- 2 TAMMY LANE & WILLIARDS LANE
- 3 BUCKGROVE ROAD
- 4 M. CAIN ROAD (ALTERNATE NO. 3)
- 5 WHELAN ROAD
- 6 US 60
- 7 FARRIS ROAD
- 8 KY 1638 - GARRETT ROAD
- 9 SPIKE BUCK DRIVE
- 9A FORK HORN LANE & DOE COURT
- 10 FAWN LANE
- 10A WHITE TAIL COURT

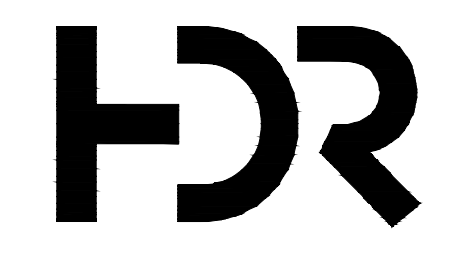
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PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
MEADE COUNTY, KENTUCKY**

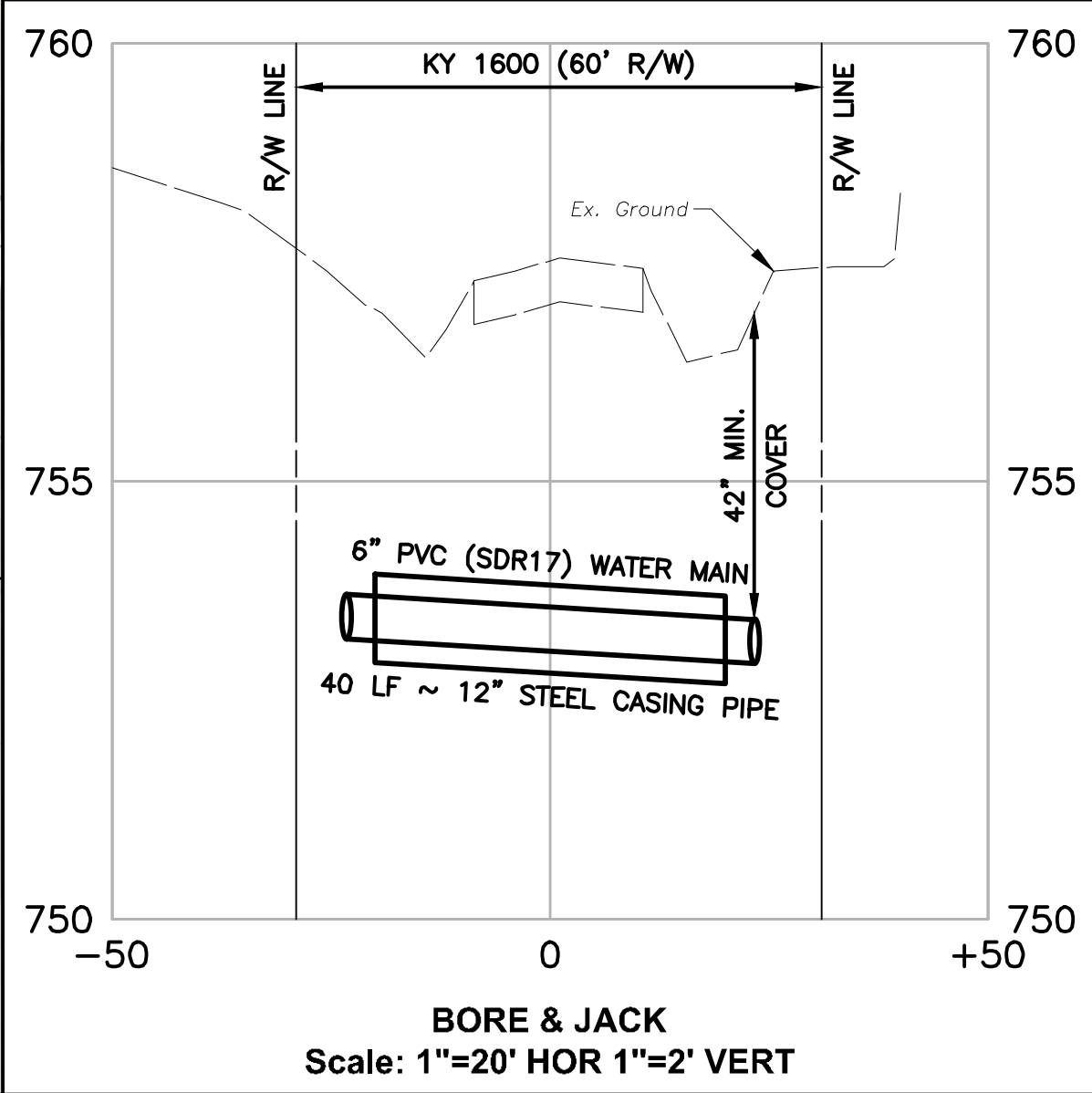
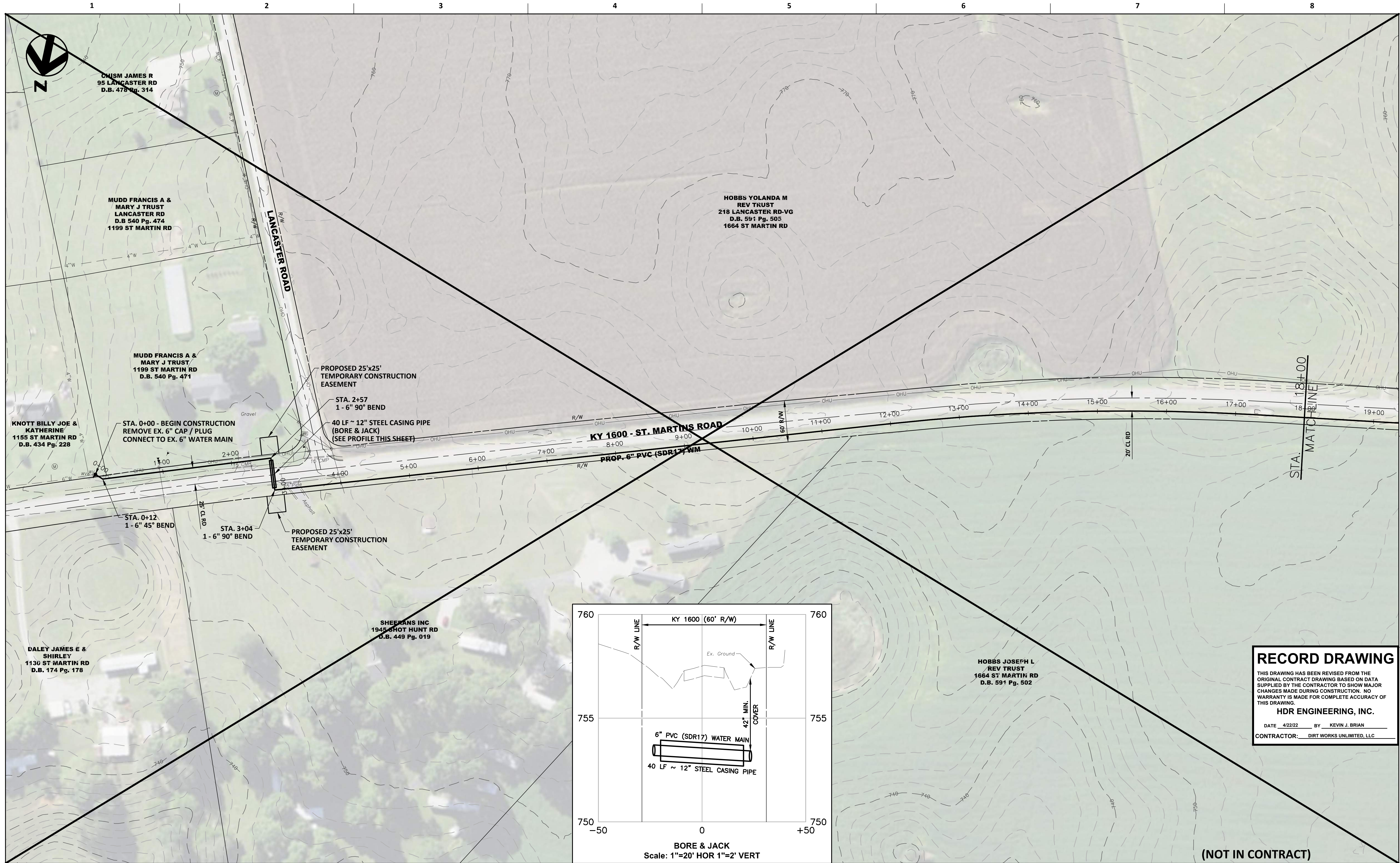
**GENERAL PLAN INDEX SHEET**

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SCALE 1" = 4000'

FILENAME G-03\_ASBUILT.dwg

SHEET **G-03**



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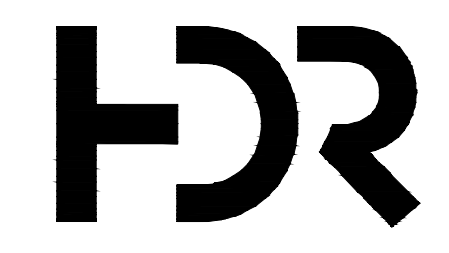
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**HDR ENGINEERING, INC.**

DATE: 4/22/22 BY: KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

(NOT IN CONTRACT)



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DESIGNED BY	KEVIN J. BRIAN
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QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "A"  
KY 1600 - ST. MARTINS ROAD  
PLAN SHEET  
STA. 0+00 TO STA. 18+00**

0 60' 120' FILENAME: Plan-A\_asbuilts.dwg SHEET: C-01

SCALE: 1" = 60'

ISSUE	DATE	DESCRIPTION



HOBBS YOLANDA M  
REV TRUST  
218 LANCASTER RD-VG  
D.B. 591 Pg. 505  
1664 ST MARTIN RD

KY 1600 - ST. MARTINS ROAD

STA. 22+25  
1 - FLUSHING HYDRANT ASSEMBLY  
1 - 6" GATE VALVE

HOBBS JOSEPH L  
REV TRUST  
1664 ST MARTIN RD  
D.B. 591 Pg. 502

**RECORD DRAWING**

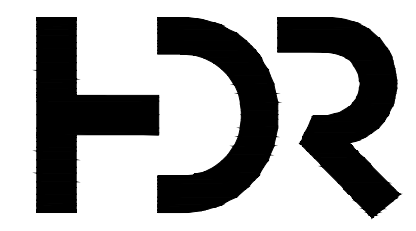
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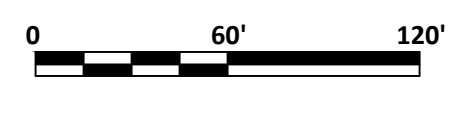


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PROJECT NUMBER	10175028

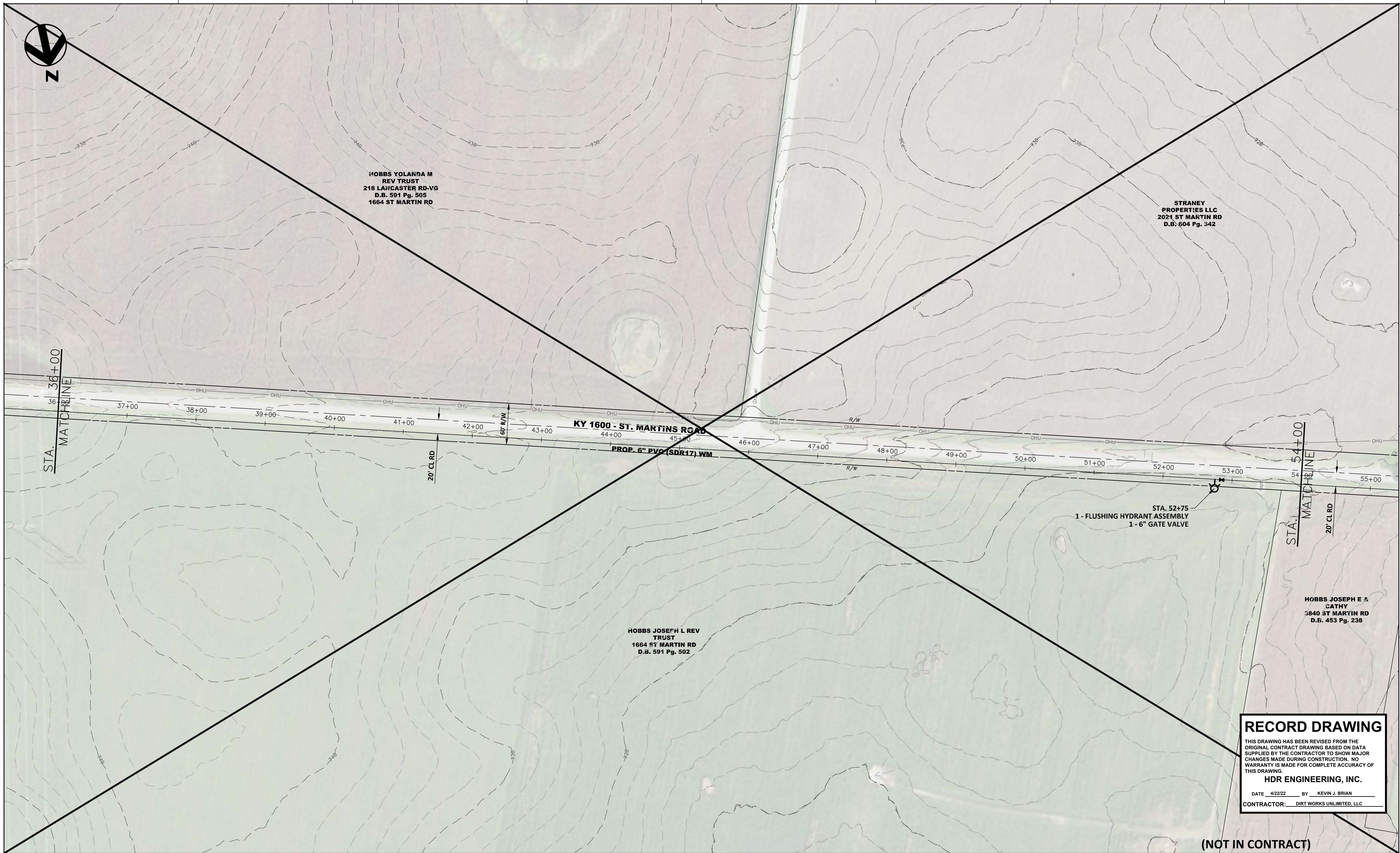
MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS



FILENAME: Plan-A\_asbuilts.dwg  
SCALE: 1" = 60'

SHEET  
C-02

LINE "A"  
KY 1600 - ST. MARTINS ROAD  
PLAN SHEET  
STA. 18+00 TO STA. 36+00



HOBBS YOLANDA M  
REV TRUST  
218 LANCASTER RD-VG  
D.B. 591 Pg. 505  
1664 ST MARTIN RD

STRANEY  
PROPERTIES LLC  
2021 ST MARTIN RD  
D.B. 604 Pg. 342

**KY 1600 - ST. MARTINS ROAD**  
PROP. 6" PVC (SDR17) WM

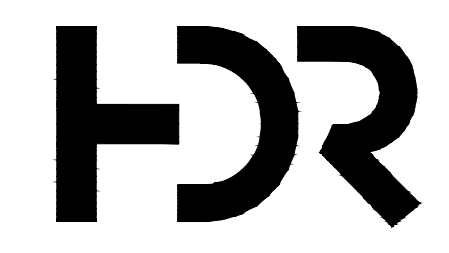
STA. 52+75  
1 - FLUSHING HYDRANT ASSEMBLY  
1 - 6" GATE VALVE

HOBBS JOSEPH L REV  
TRUST  
1664 ST MARTIN RD  
D.B. 591 Pg. 502

HOBBS JOSEPH E &  
CATHY  
3840 ST MARTIN RD  
D.B. 453 Pg. 238

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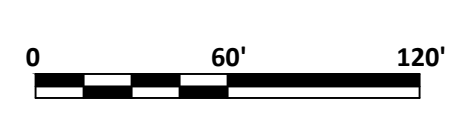


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**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**



FILENAME: Plan-A\_asbuilts.dwg  
SCALE: 1" = 60'

SHEET  
**C-03**

**LINE "A"  
KY 1600 - ST. MARTINS ROAD  
PLAN SHEET  
STA. 36+00 TO STA. 54+00**





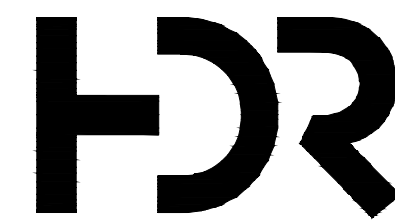
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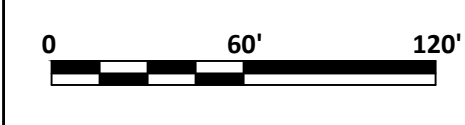
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2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

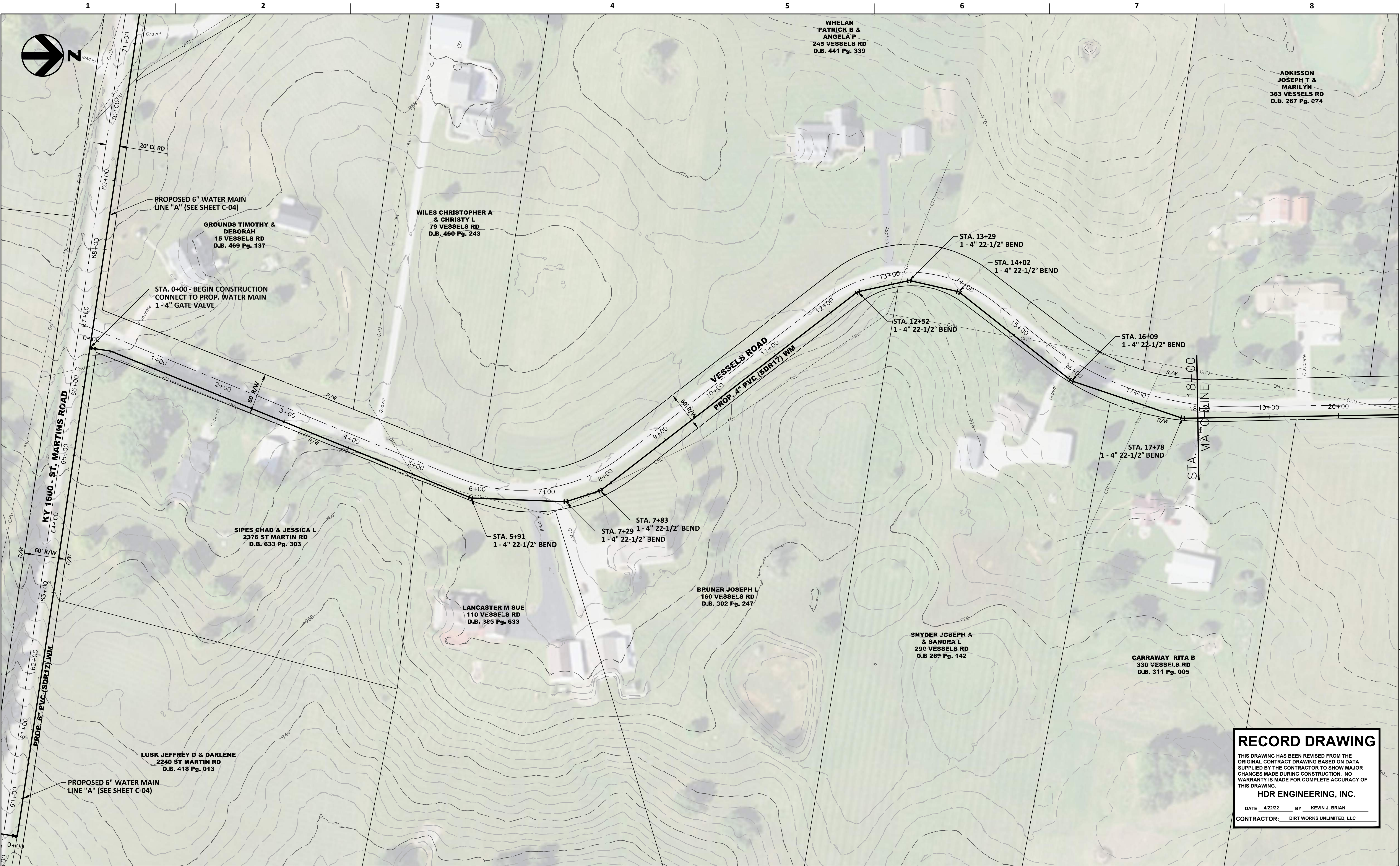


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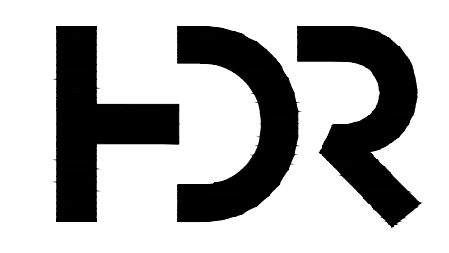
SHEET  
**C-05**

**LINE "A"  
KY 1600 - ST. MARTINS ROAD  
PLAN SHEET  
STA. 72+00 TO STA. 83+50**





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**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

SCALE 1" = 60'  
 FILENAME Plan-A\_asbuilts.dwg  
 SHEET C-06

**LINE "A1"  
 VESSELS ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00**



ADKISSON  
JOSEPH T &  
MARILYN  
363 VESSELS RD  
D.B. 267 Pg. 074

BOARD RUDY L  
& DARLENE  
409 VESSELS RD  
D.B. 125 Pg. 495

HUBBARD MARK  
A & JEAN E  
485 VESSELS RD  
D.B. 396 Pg. 390

SCHAFFNER C H &  
PATRICIA  
555 VESSELS RD  
D.B. 302 Pg. 252

MEYER HARRY M &  
JACKIE S  
550 VESSELS RD  
D.B. 397 Pg. 272  
P O BOX 353

REMSBURG  
HAROLD & MARY C  
540 VESSELS RD  
D.B. 210 Pg. 092

CARRAWAY RITA B  
330 VESSELS RD  
D.B. 311 Pg. 005

CASTER BRUCE  
& JERRI L  
424 VESSELS RD  
D.B. 284 Pg. 085

CASTER BRUCE L SR  
& JERRI L  
470 VESSELS RD  
D.B. 426 Pg. 197  
424 VESSELS RD

VOWELS NORMAN L  
& SHERRY  
520 VESSELS RD  
D.B. 411 Pg. 003

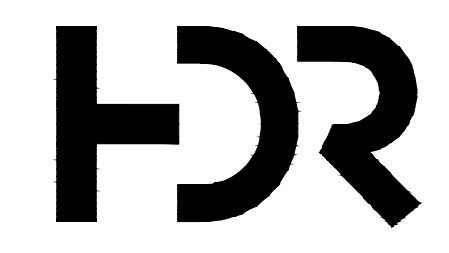
**RECORD DRAWING**

THIS DRAWING HAS BEEN REVISED FROM THE ORIGINAL CONTRACT DRAWING BASED ON DATA SUPPLIED BY THE CONTRACTOR TO SHOW MAJOR CHANGES MADE DURING CONSTRUCTION. NO WARRANTY IS MADE FOR COMPLETE ACCURACY OF THIS DRAWING.

HDR ENGINEERING, INC.

DATE 4/22/22 BY KEVIN J. BRIAN

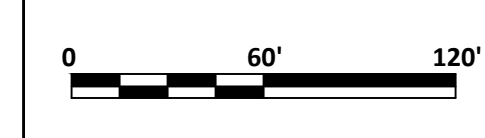
CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

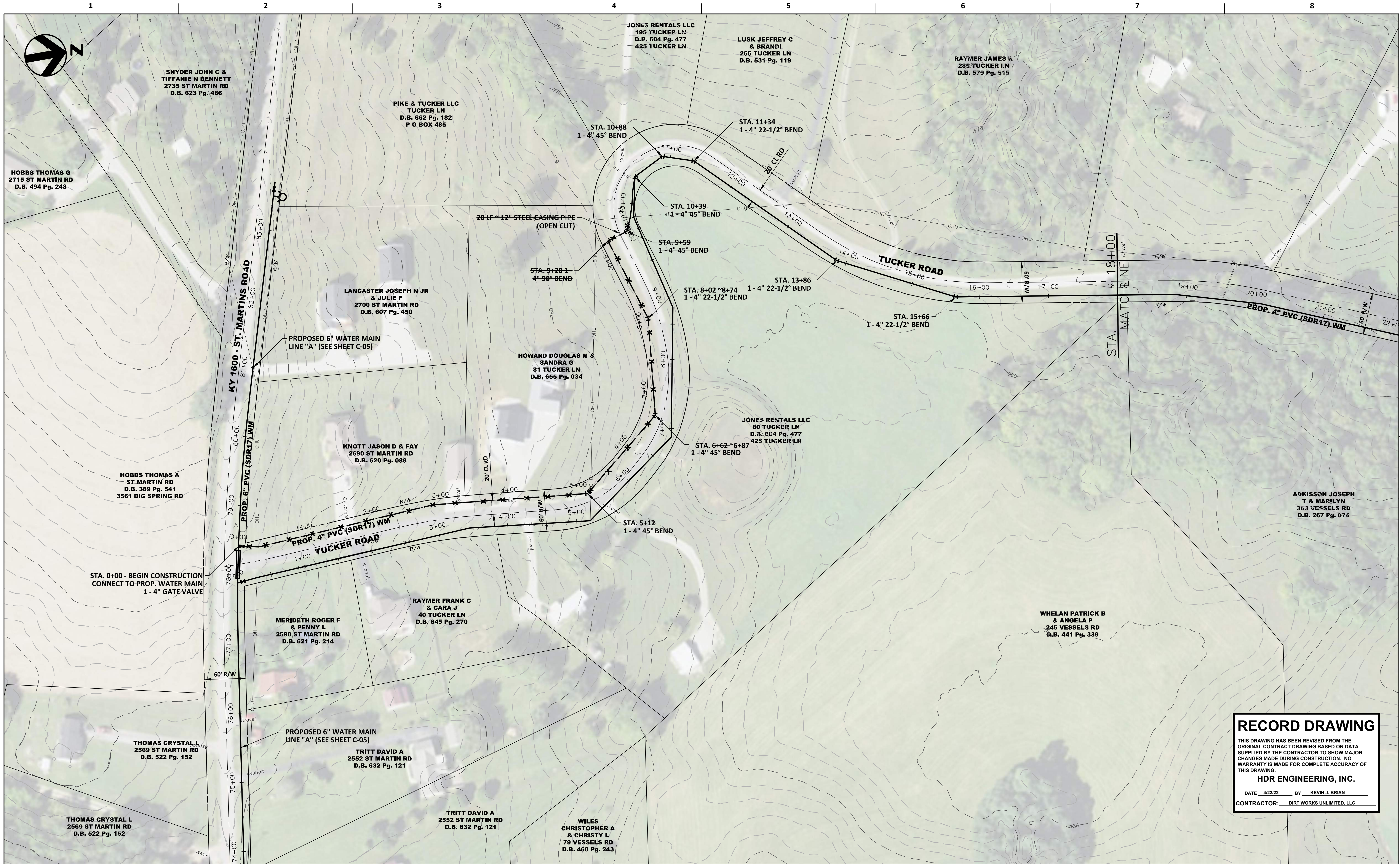
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VESSELS ROAD  
PLAN SHEET  
STA. 18+00 TO STA. 30+00**



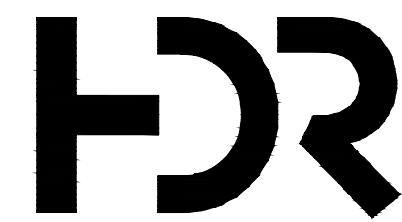
FILENAME: Plan-A\_asbuilts.dwg  
SCALE: 1" = 60'

SHEET  
**C-07**

ISSUE	DATE	DESCRIPTION



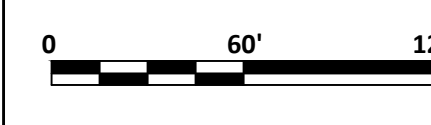
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**



**LINE "A2"  
 TUCKER ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00**

FILENAME: Plan-A\_asbuilts.dwg  
 SCALE: 1" = 60'

SHEET  
**C-08**



RAYMER JAMES R  
285 TUCKER LN  
D.B. 579 Pg. 515

GOMEZ JUDITH A  
355 TUCKER LN  
D.B. 456 Pg. 529

JONES PATRICK H  
& CATHERINE E  
425 TUCKER LN  
D.B. 429 Pg. 110

HAMILTON  
ELIZABETH  
475 TUCKER LN  
D.B. 652 Pg. 288

YATES GREGORY A  
& JOHN A YATES  
495 TUCKER LN  
D.B. 421 Pg. 594

ADKISSON JOSEPH  
T & MARILYN  
363 VESSELS RD  
D.B. 267 Pg. 074

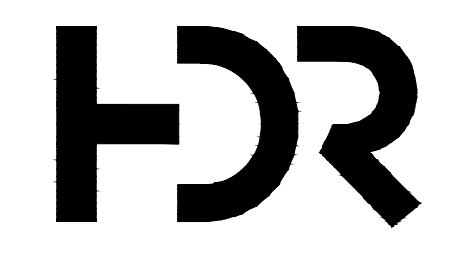
WHELAN PATRICK B  
& ANGELA P  
245 VESSELS RD  
D.B. 441 Pg. 339

BOARD RUDY L &  
DARLENE  
409 VESSELS RD  
D.B. 125 Pg. 495

HUSBARD MARK A  
& JEAN E  
485 VESSELS RD  
D.B. 396 Pg. 590

SCHAFFNER C H &  
PATRICIA  
555 VESSELS RD  
D.B. 302 Pg. 252

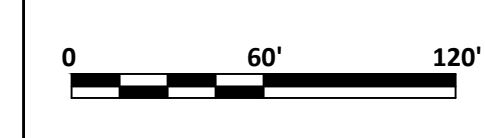
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**HDR ENGINEERING, INC.**  
DATE 4/22/22 BY KEVIN J. BRIAN  
CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

ISSUE	DATE	DESCRIPTION

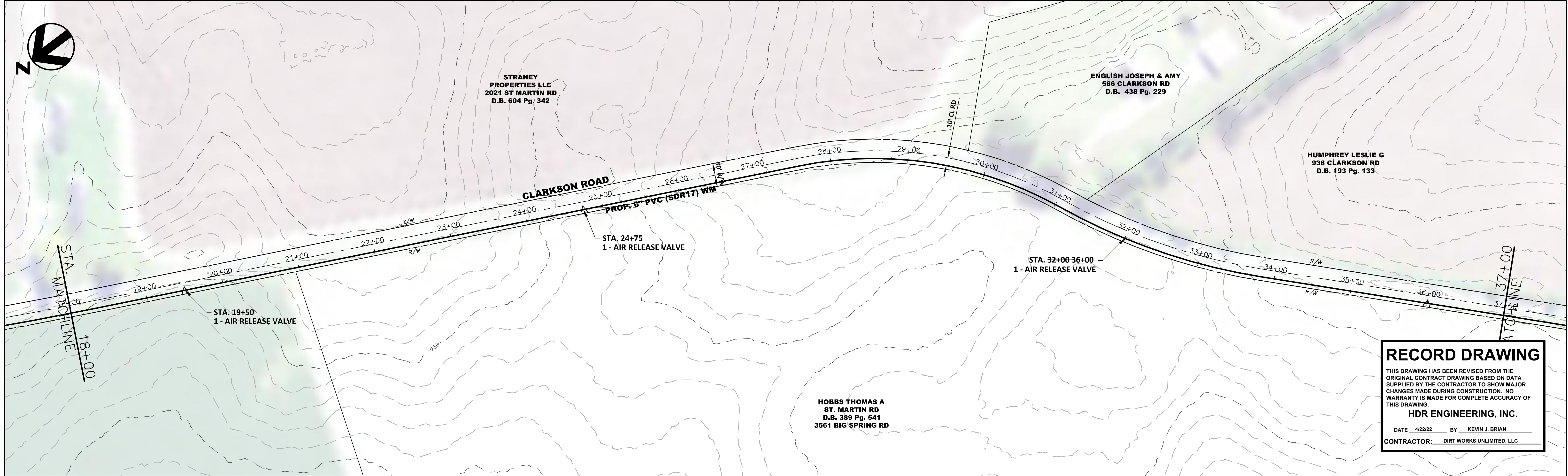
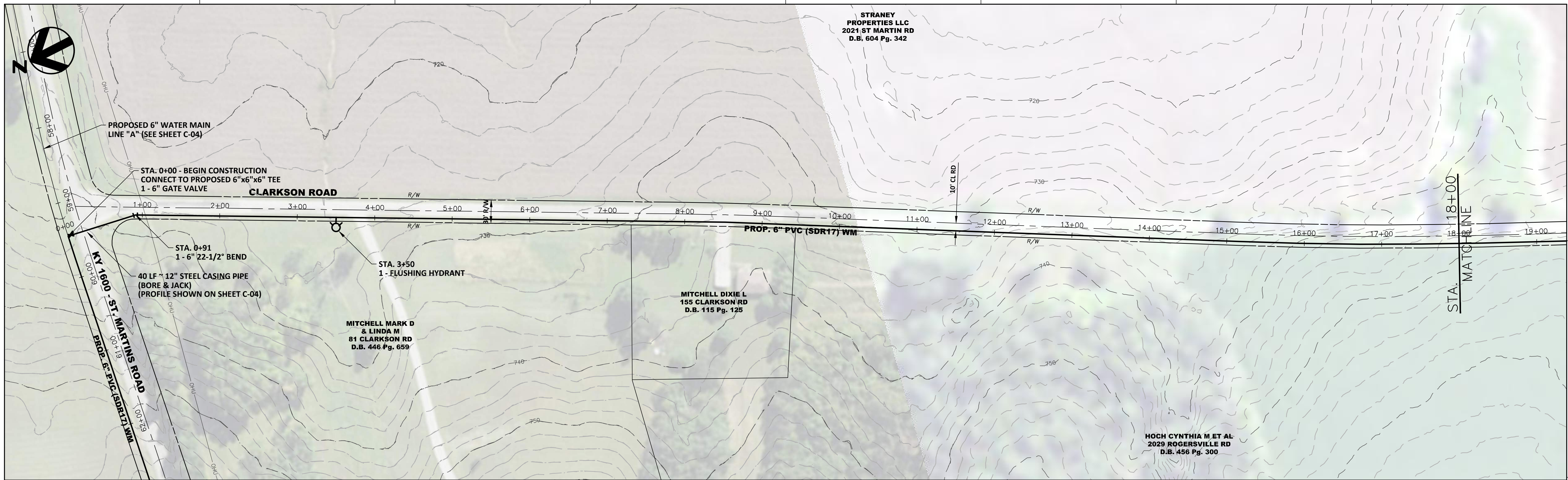
**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**



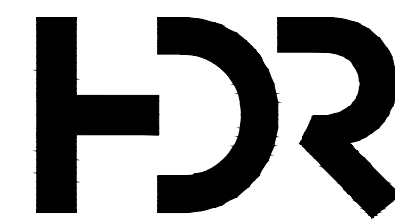
**LINE "A2"  
TUCKER ROAD  
PLAN SHEET  
STA. 18+00 TO STA. 25+50**

FILENAME: Plan-A\_asbuilts.dwg  
SCALE: 1" = 60'

SHEET  
**C-09**



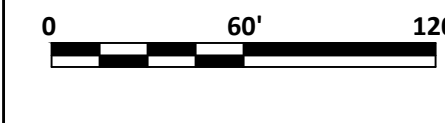
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

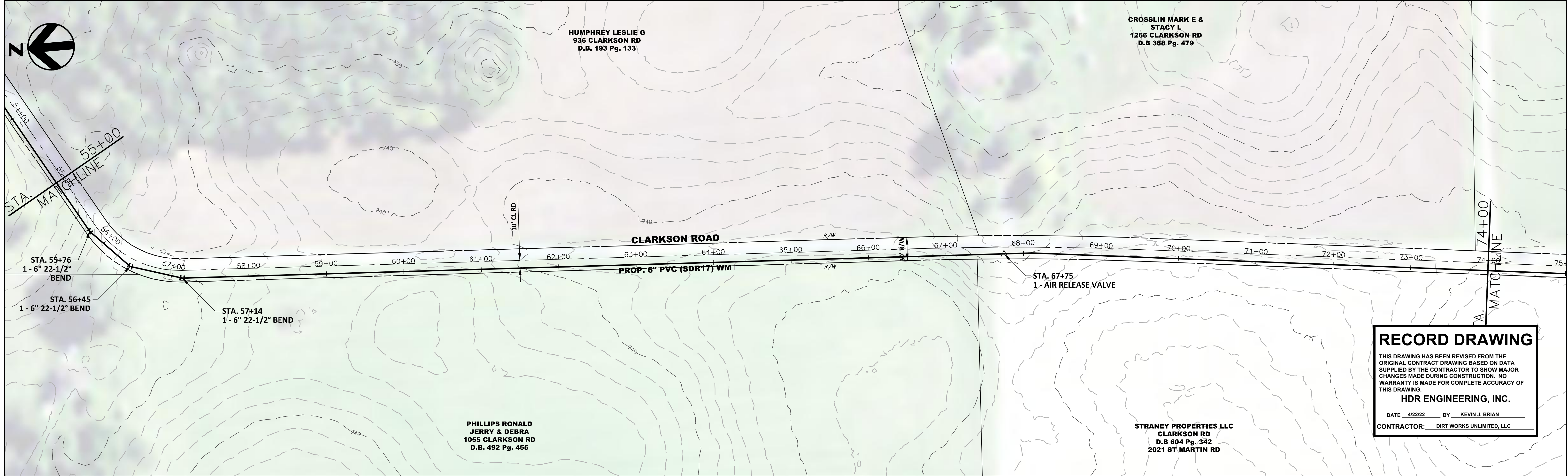
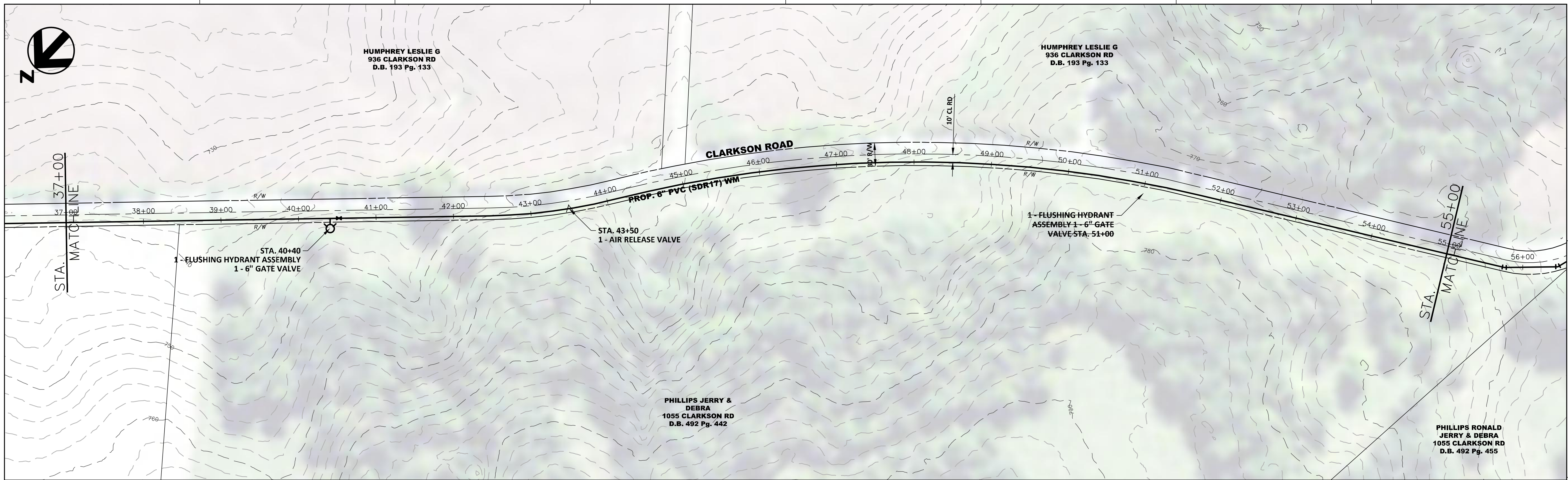
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

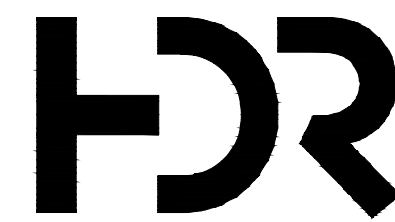


**LINE "A3"  
 CLARKSON ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 37+00**

FILENAME: Plan-A\_asbuilts.dwg  
 SCALE: 1" = 60'



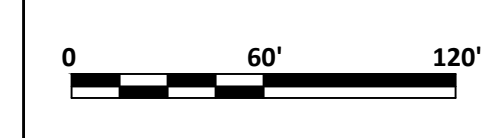
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

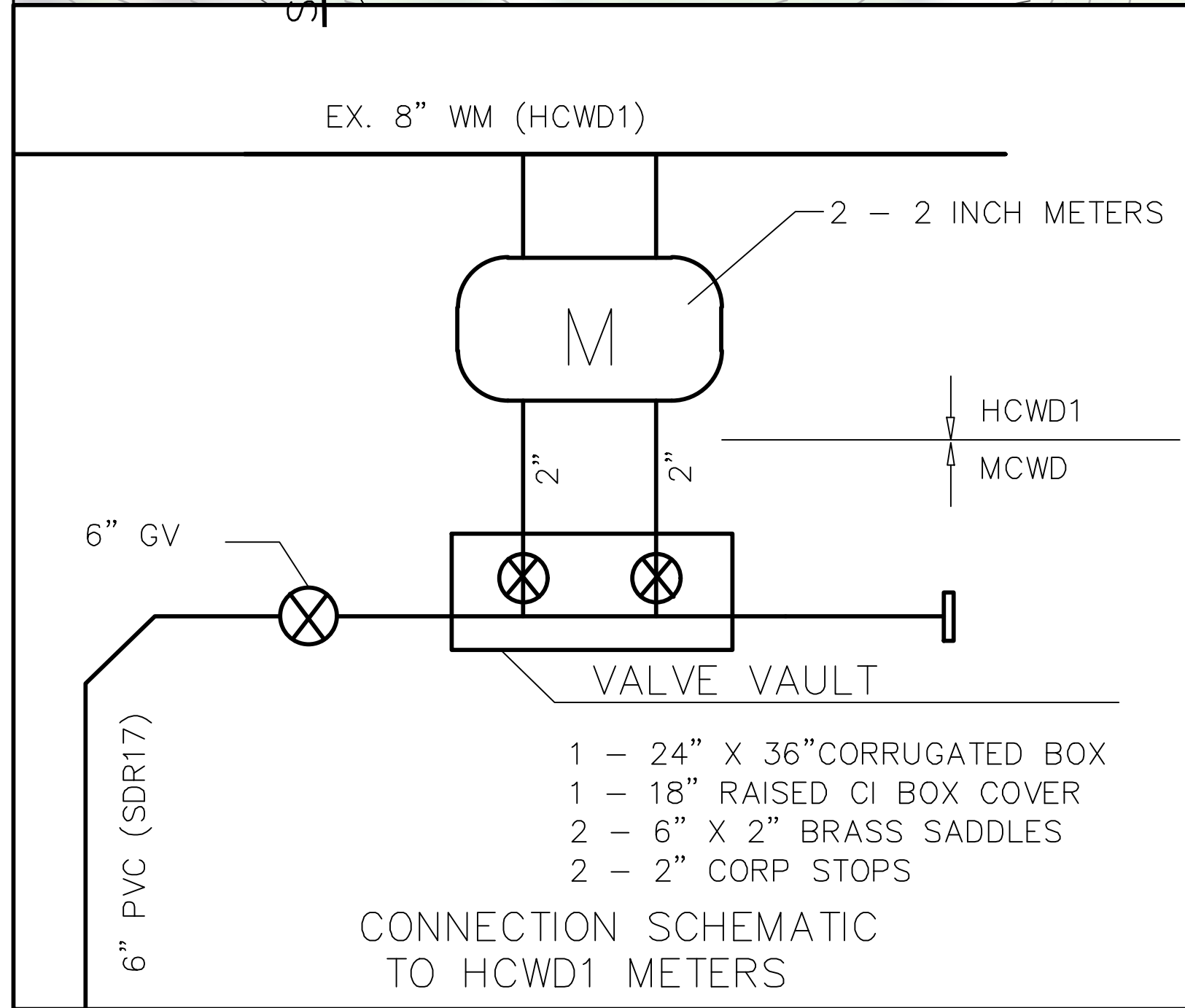
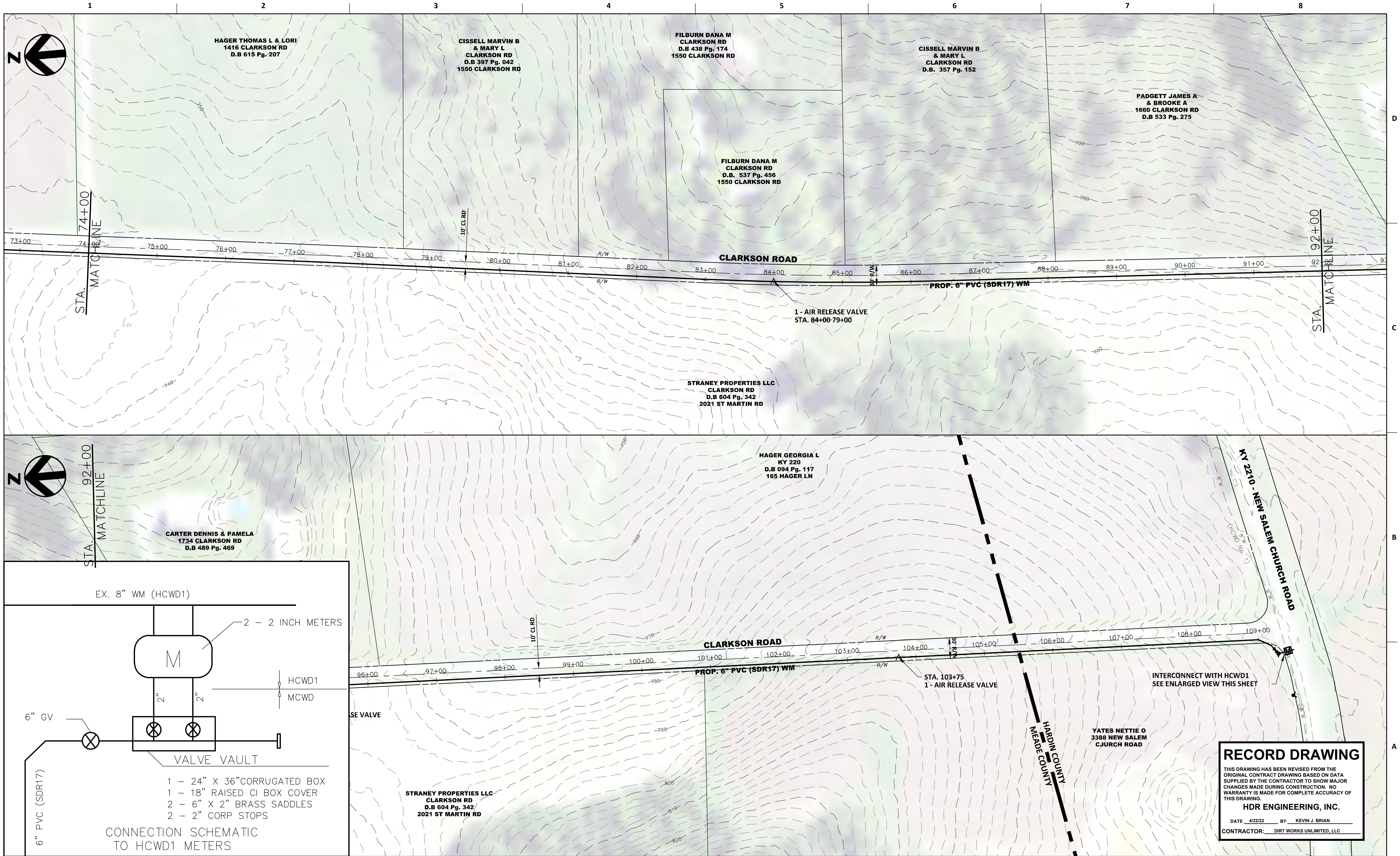
**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**



**LINE "A3"  
 CLARKSON ROAD  
 PLAN SHEET  
 STA. 37+00 TO STA. 74+00**

FILENAME | Plan-A\_asbuilts.dwg  
 SCALE | 1" = 60'

SHEET  
**C-11**



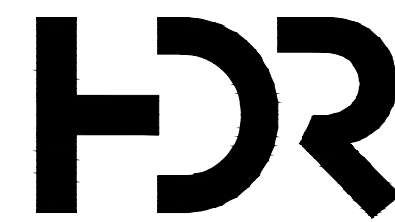
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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



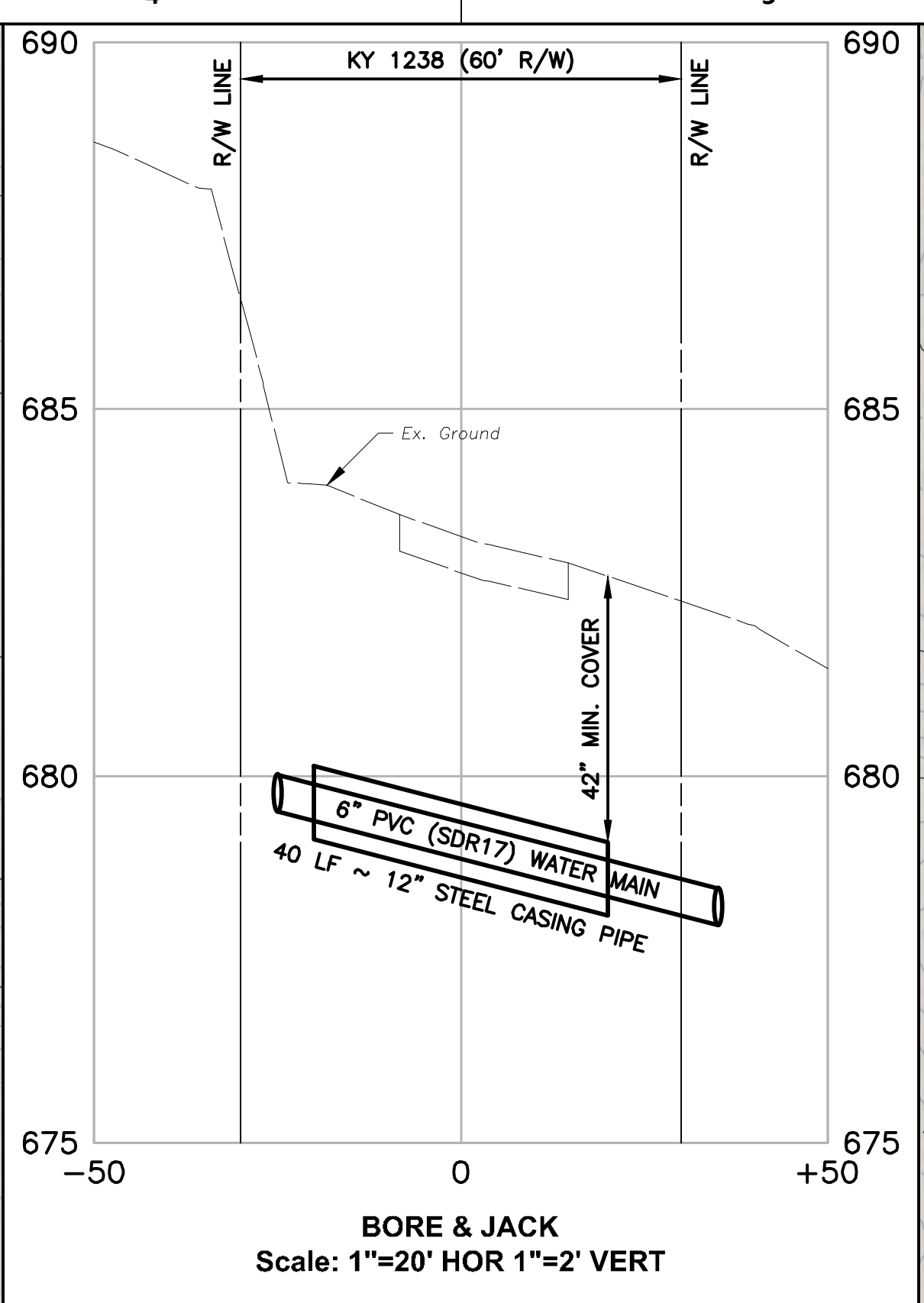
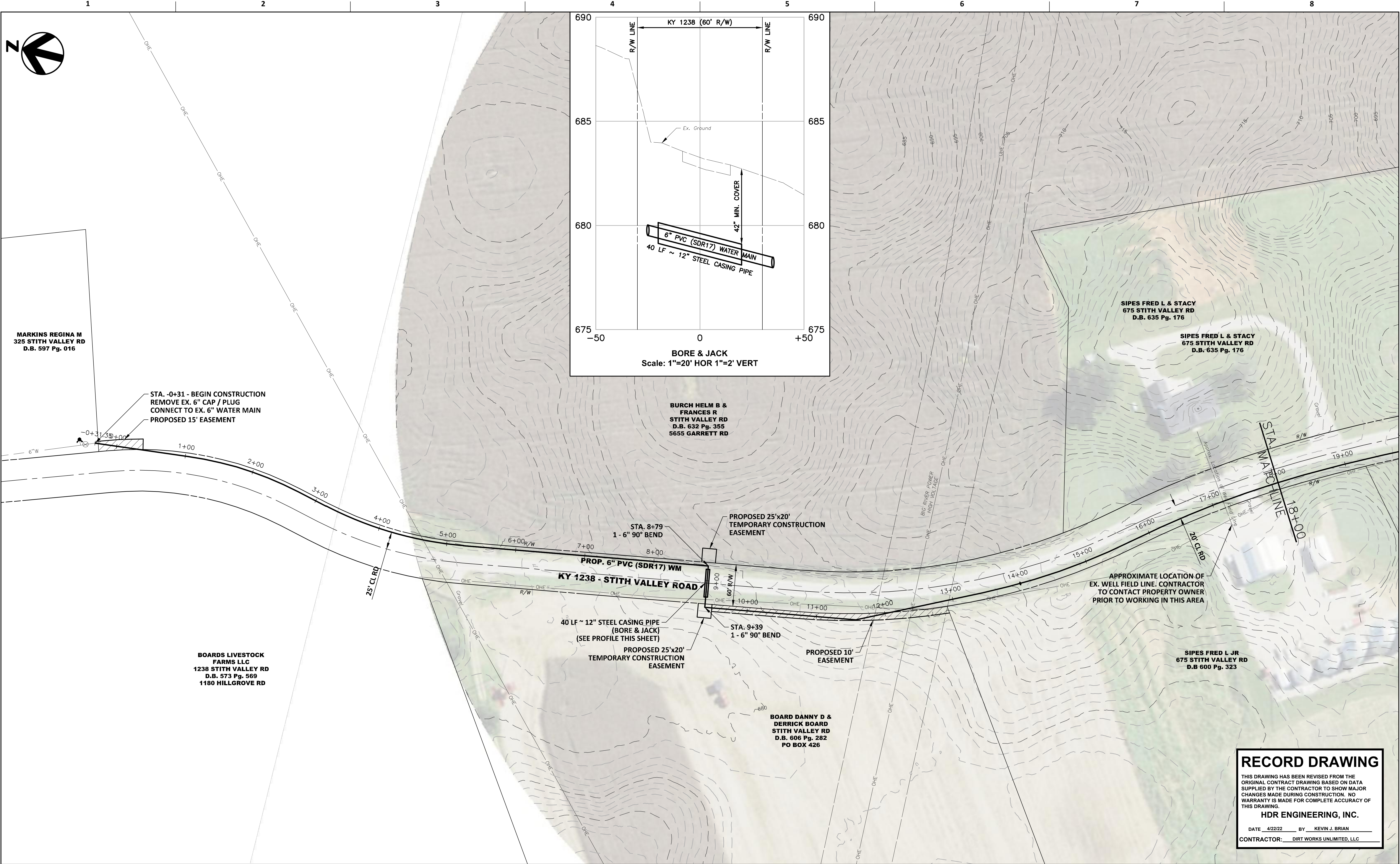
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "A3"  
CLARKSON ROAD  
PLAN SHEET  
STA. 74+00 TO STA. 109+50**



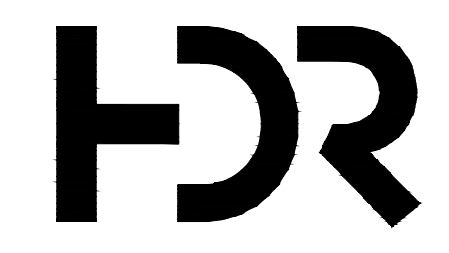
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HDR ENGINEERING, INC.

DATE: 4/22/22 BY: KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS

0 60' 120' FILENAME: Plan-B\_asbuits.dwg SHEET: C-13  
SCALE: 1" = 60'

LINE "B"  
KY 1238 - STITH VALLEY ROAD  
PLAN SHEET  
STA. 0+00 TO STA. 18+00





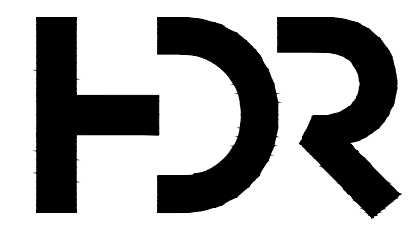
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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

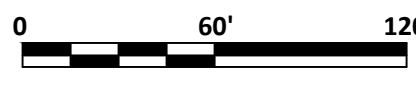
CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "B"  
KY 1238 - STITH VALLEY ROAD  
PLAN SHEET  
STA. 18+00 TO STA. 36+00**



FILENAME: Plan-B\_asbuits.dwg  
SCALE: 1" = 60'



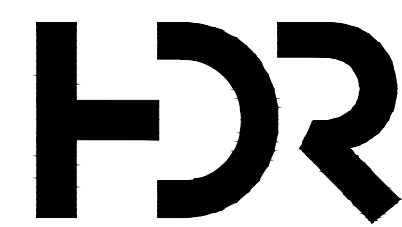
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HDR ENGINEERING, INC.

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

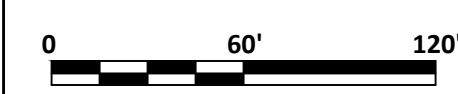


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

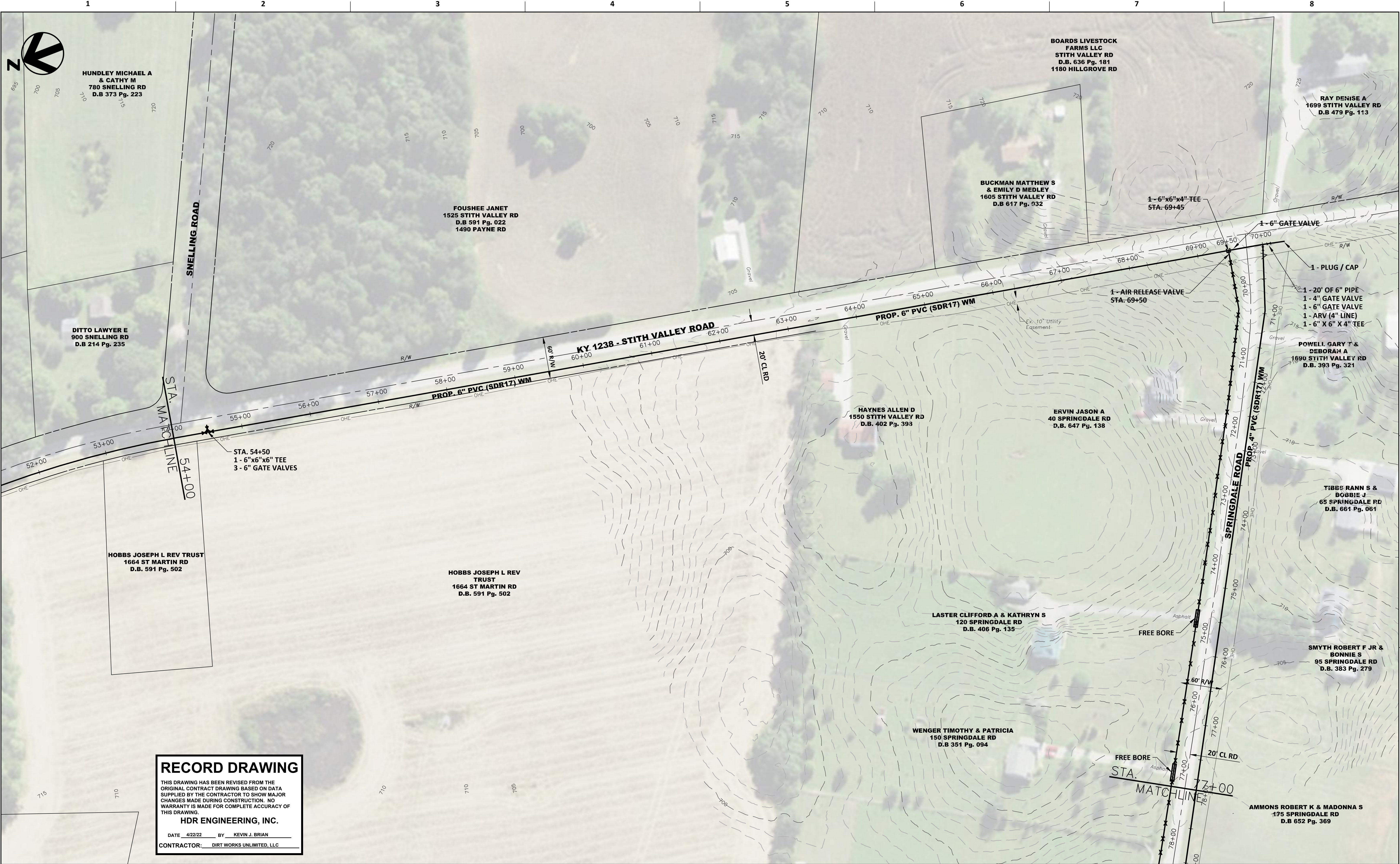
**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "B"  
KY 1238 - STITH VALLEY ROAD  
PLAN SHEET  
STA. 36+00 TO STA. 54+00**



FILENAME | Plan-B\_asbuilts.dwg  
SCALE | 1" = 60'

SHEET  
**C-15**



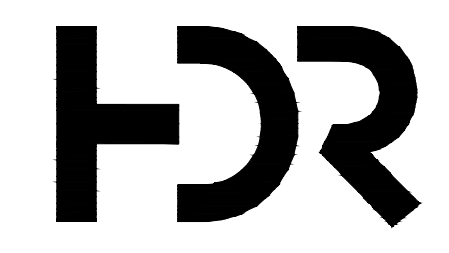
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ISSUE	DATE	DESCRIPTION

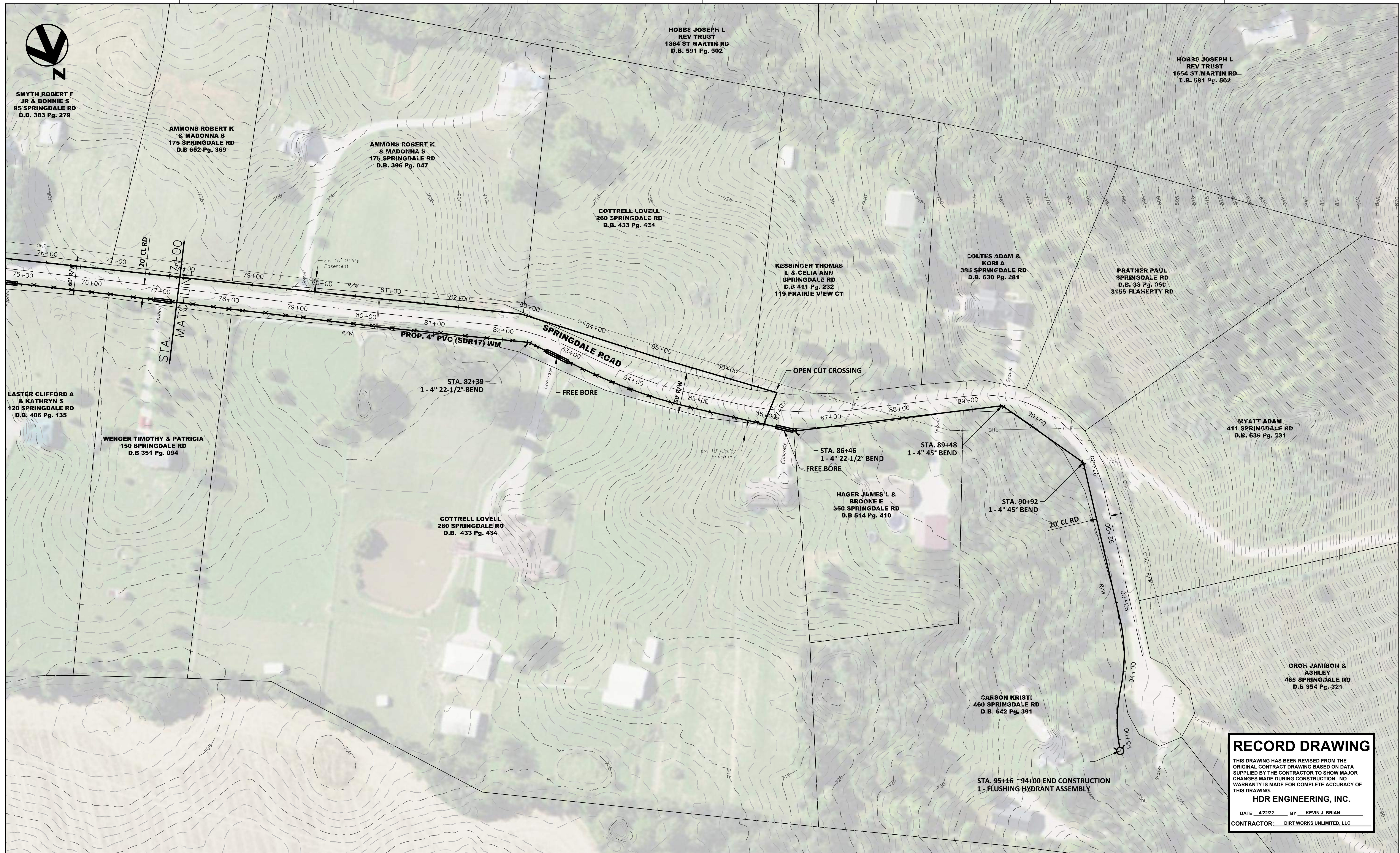
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

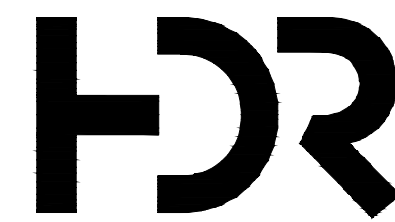
**LINE "B"  
KY 1238 - STITH VALLEY ROAD / SPRINGDALE ROAD  
PLAN SHEET  
STA. 54+00 TO STA. 77+00**

SCALE 1" = 60'

FILENAME Plan-B\_asbuits.dwg SHEET C-16



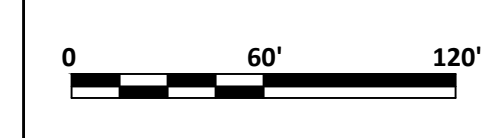
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**HDR ENGINEERING, INC.**  
 DATE: 4/22/22 BY: KEVIN J. BRIAN  
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ISSUE	DATE	DESCRIPTION

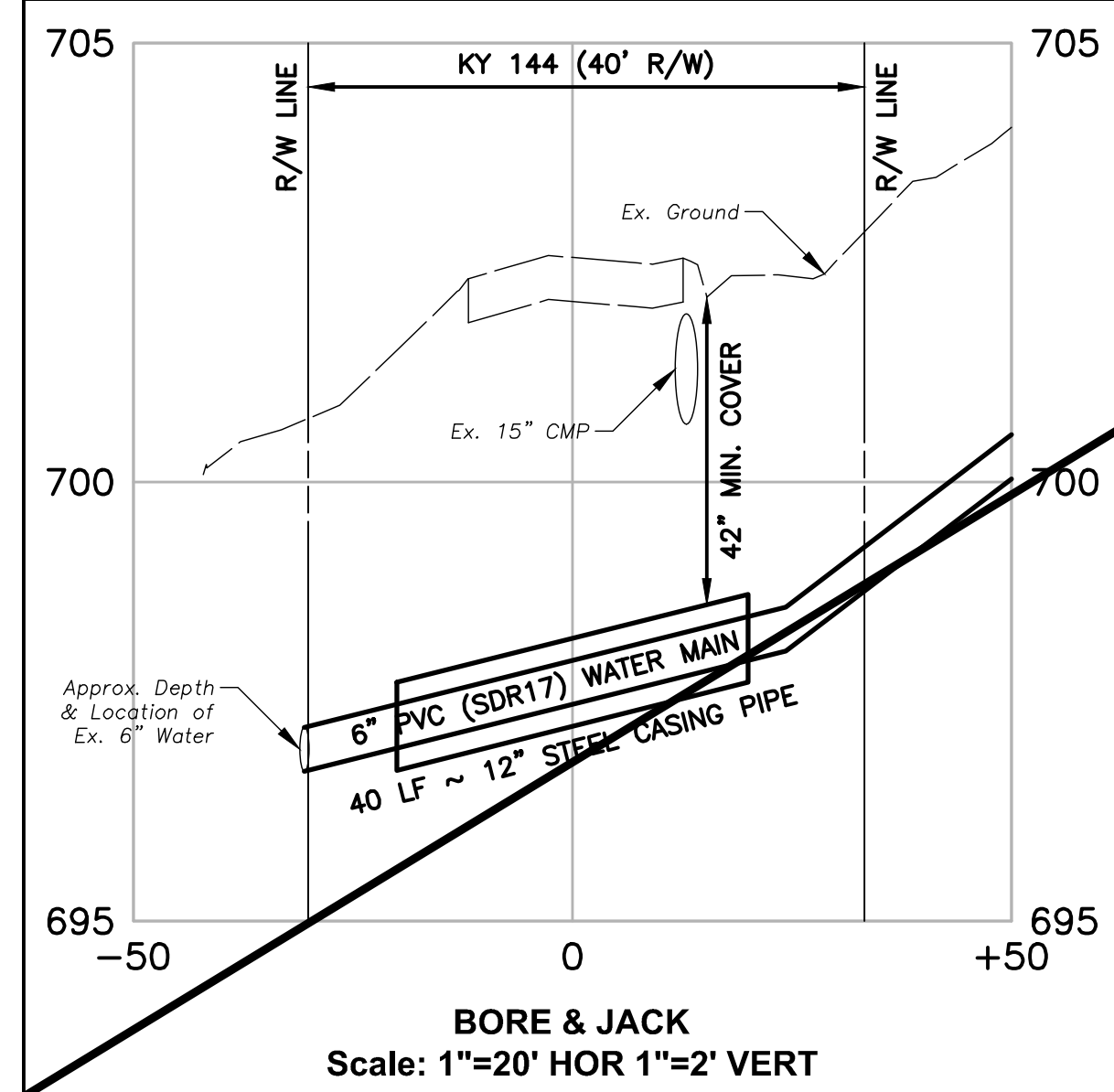
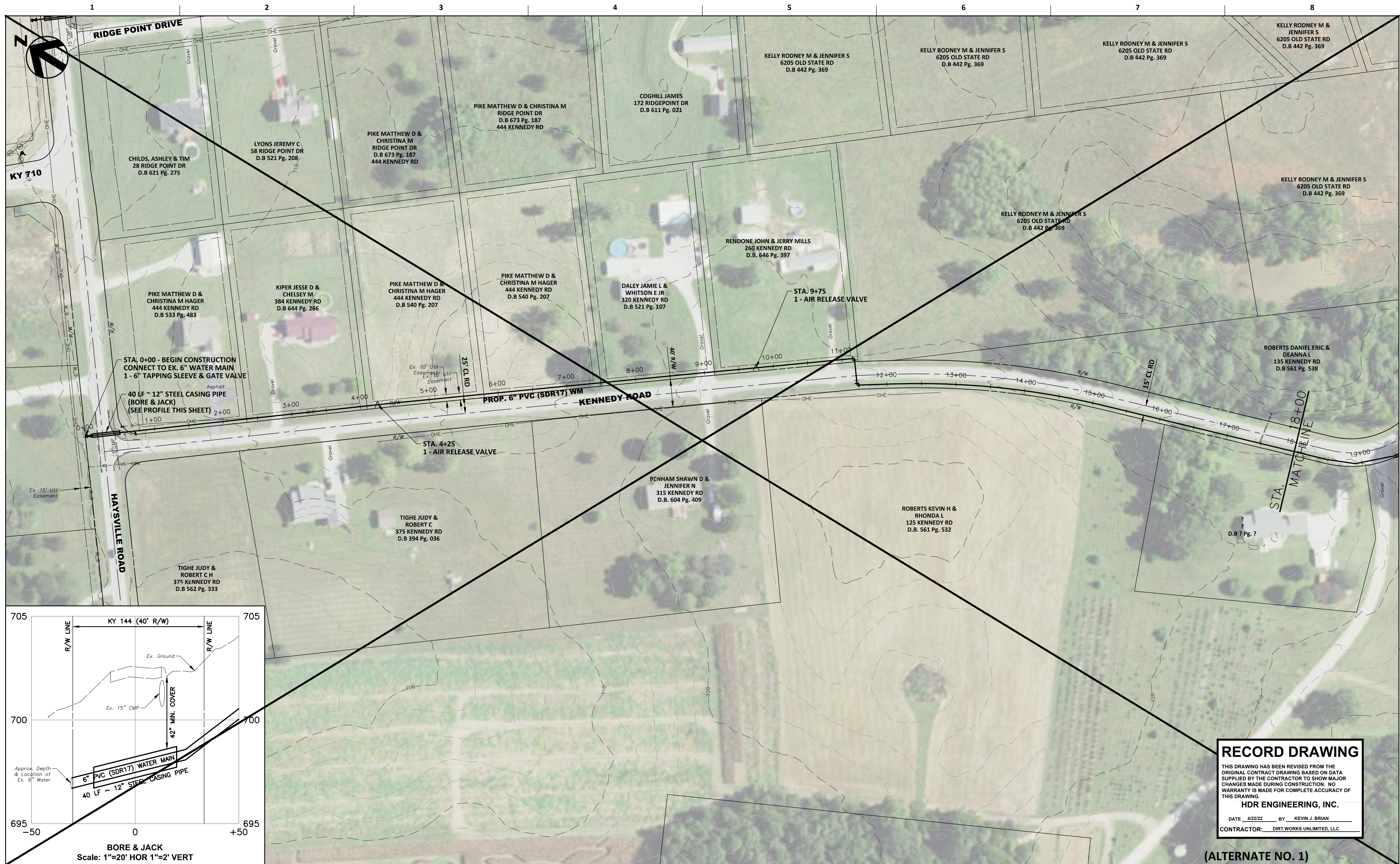
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**



**LINE "B"  
 SPRINGDALE ROAD  
 PLAN SHEET  
 STA. 77+00 TO STA. 95+00**

FILENAME: Plan-B\_asbuitts.dwg  
 SCALE: 1" = 60'



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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

(ALTERNATE NO. 1)



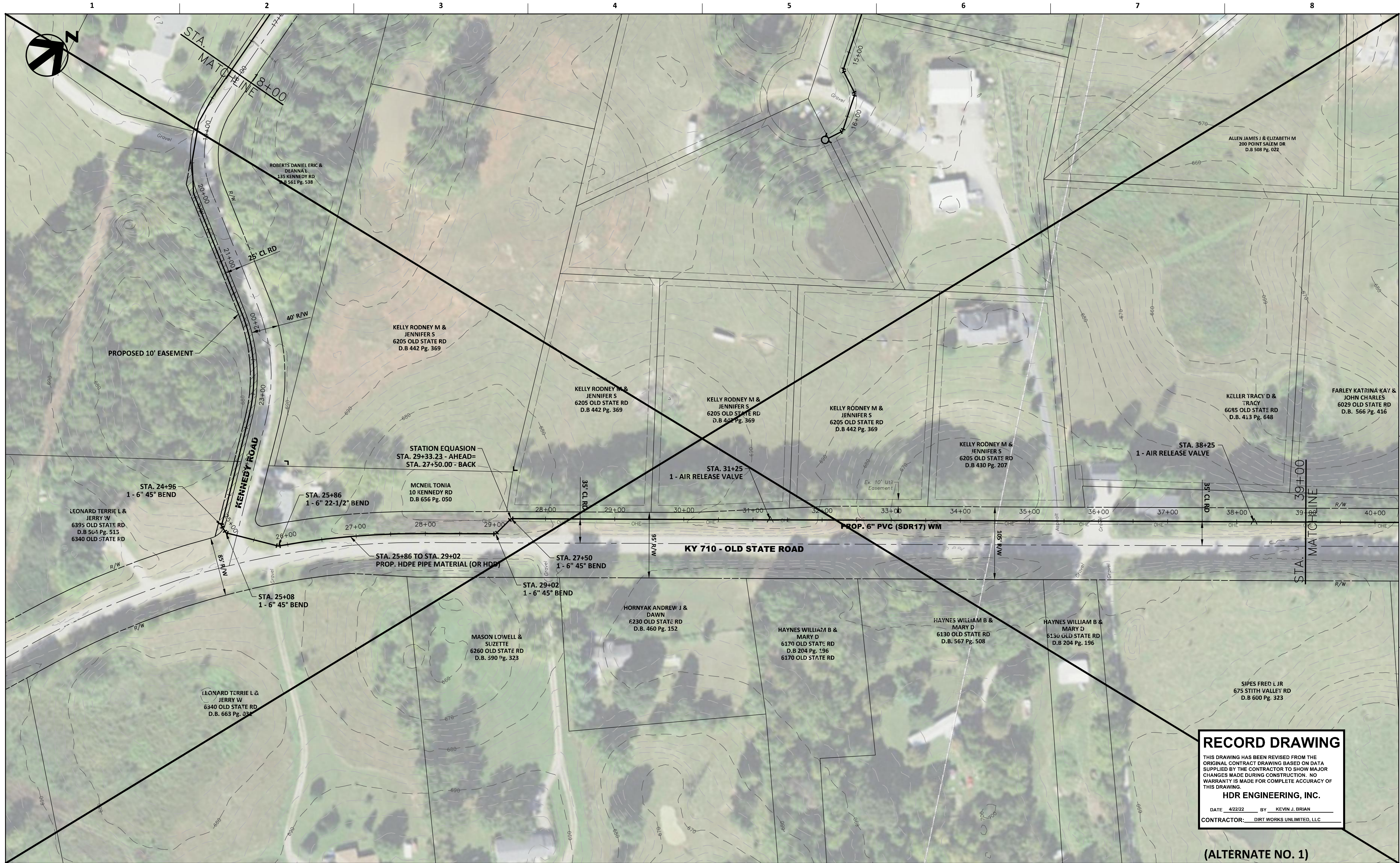
PROJECT MANAGER	KEVIN J. BRIAN	
DESIGNED BY	KEVIN J. BRIAN	
DRAWN BY	WILLIAM M. GUMM	
QA / QC	MIKE HANSEN	
PROJECT NUMBER	10175028	
ISSUE	DATE	DESCRIPTION

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

0 60' 120'  
 SCALE 1" = 60'

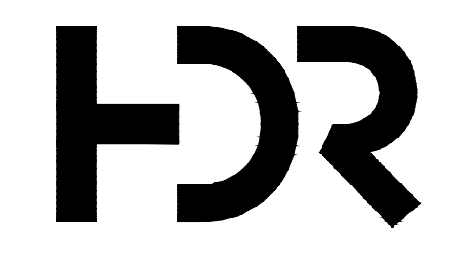
**LINE "C"  
 KENNEDY ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00**

FILENAME Plan-C.dwg  
 SHEET  
**C-18**



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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

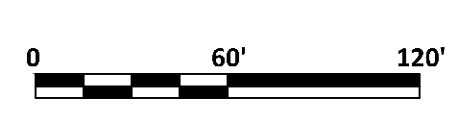
(ALTERNATE NO. 1)



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**



FILENAME | Plan-C.dwg  
 SCALE | 1" = 60'

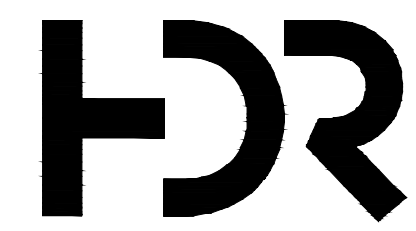
SHEET  
**C-19**

**LINE "C"  
 KENNEDY ROAD / KY 710 - OLD STATE ROAD  
 PLAN SHEET  
 STA. 18+00 TO STA. 39+00**



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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

(ALTERNATE NO. 1)



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DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS

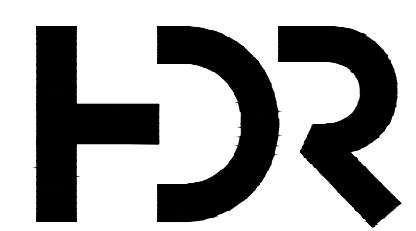
0 60' 120' FILENAME PLAN-ALTERNATIVE C.dwg SHEET  
 SCALE 1" = 60' C-20

LINE "C"  
 KY 710 - OLD STATE ROAD  
 PLAN SHEET  
 STA. 3+02 TO STA. 24+06



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**HDR ENGINEERING, INC.**  
 DATE: 4/22/22 BY: KEVIN J. BRIAN  
 CONTRACTOR: WEST WISCONSIN LINE, LIMITED, LLC

(ALTERNATE NO. 1)



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

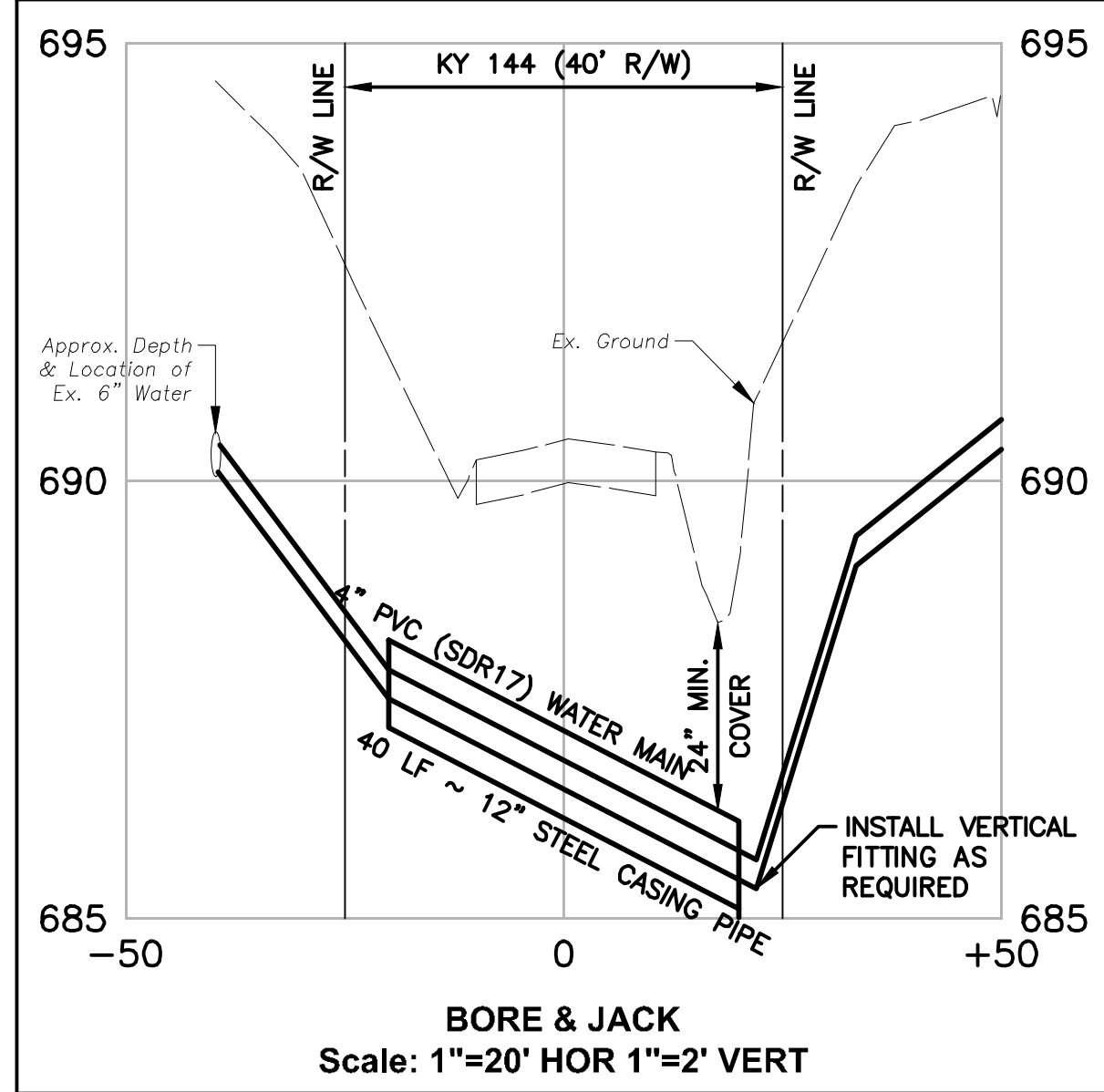
**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

**LINE "C"  
 KY 710 - OLD STATE ROAD  
 PLAN SHEET  
 STA. 57+50 TO STA. 75+00**

0 60' 120' FILENAME: Plan-C.dwg  
 SCALE: 1" = 60'

SHEET  
**C-21**





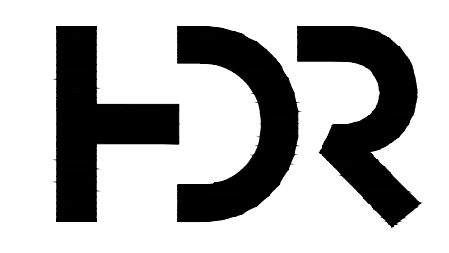
RELOCATING AND TRANSFERRING SERVICES TO THE NEW WATERMAIN WERE DELETED FROM CONTRACT. MCWD WILL PERFORM THIS WORK AT A LATER DATE.

**RECORD DRAWING**

THIS DRAWING HAS BEEN REVISED FROM THE ORIGINAL CONTRACT DRAWINGS BASED ON DATA SUPPLIED BY THE CONTRACTOR TO SHOW MAJOR CHANGES MADE DURING CONSTRUCTION. NO WARRANTY IS MADE FOR COMPLETE ACCURACY OF THIS DRAWING.

**HDR ENGINEERING, INC.**

DATE: 4/22/22 BY: KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

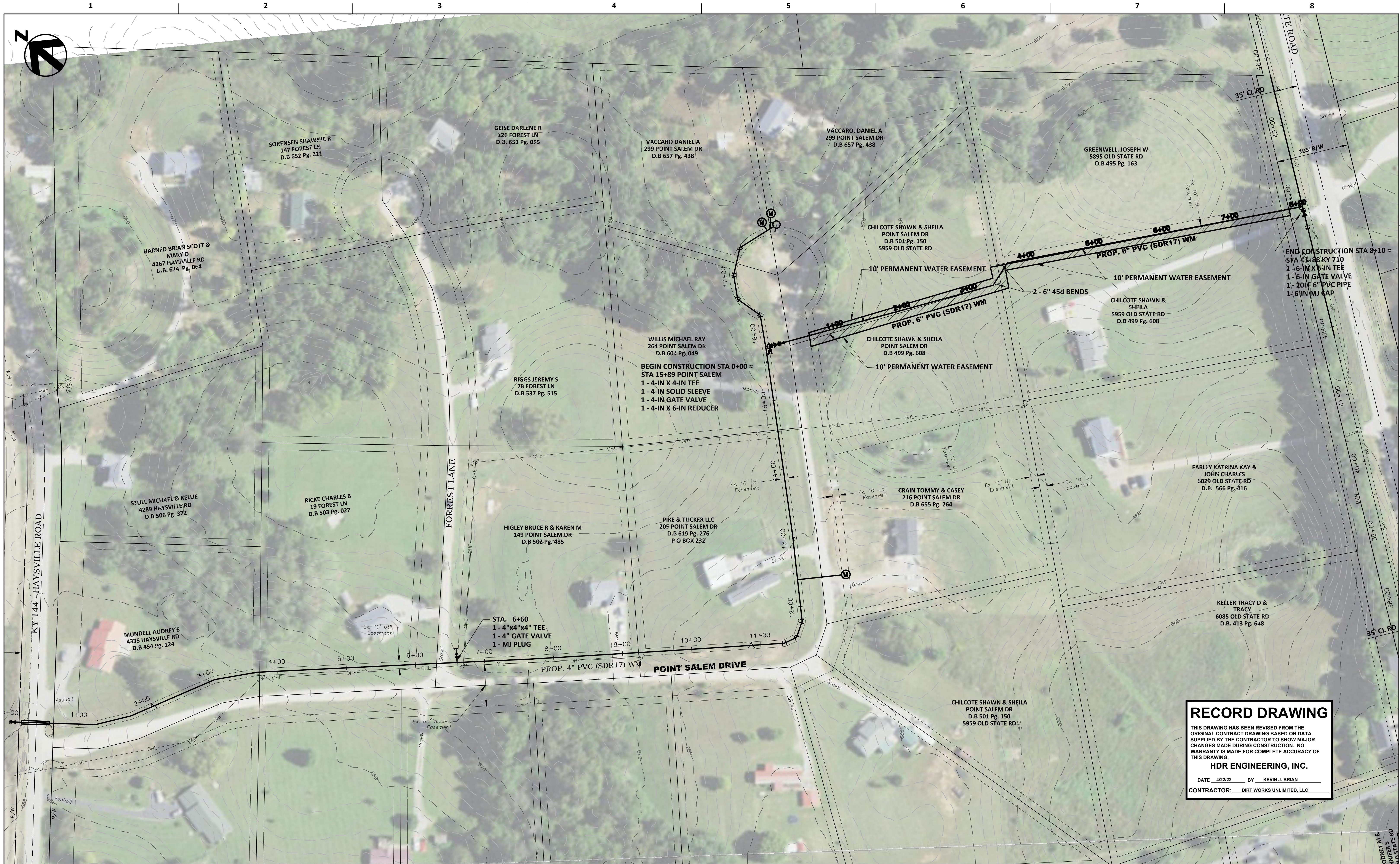


ISSUE	DATE	DESCRIPTION

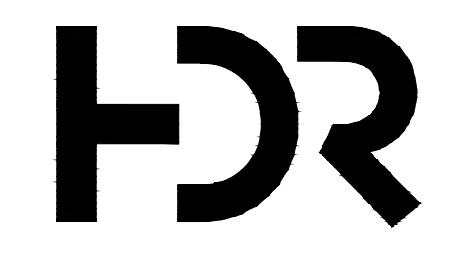
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

**LINE "C1"  
 RIDGE POINT DRIVE  
 PLAN SHEET  
 STA. 0+00 TO STA. 16+50**



**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

**LINE "C"  
 POINT SALEM & CC GRID-TIE  
 PLAN SHEET  
 STA. 0+00 TO STA. 08+10**



**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

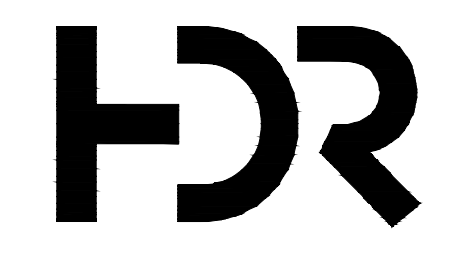
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

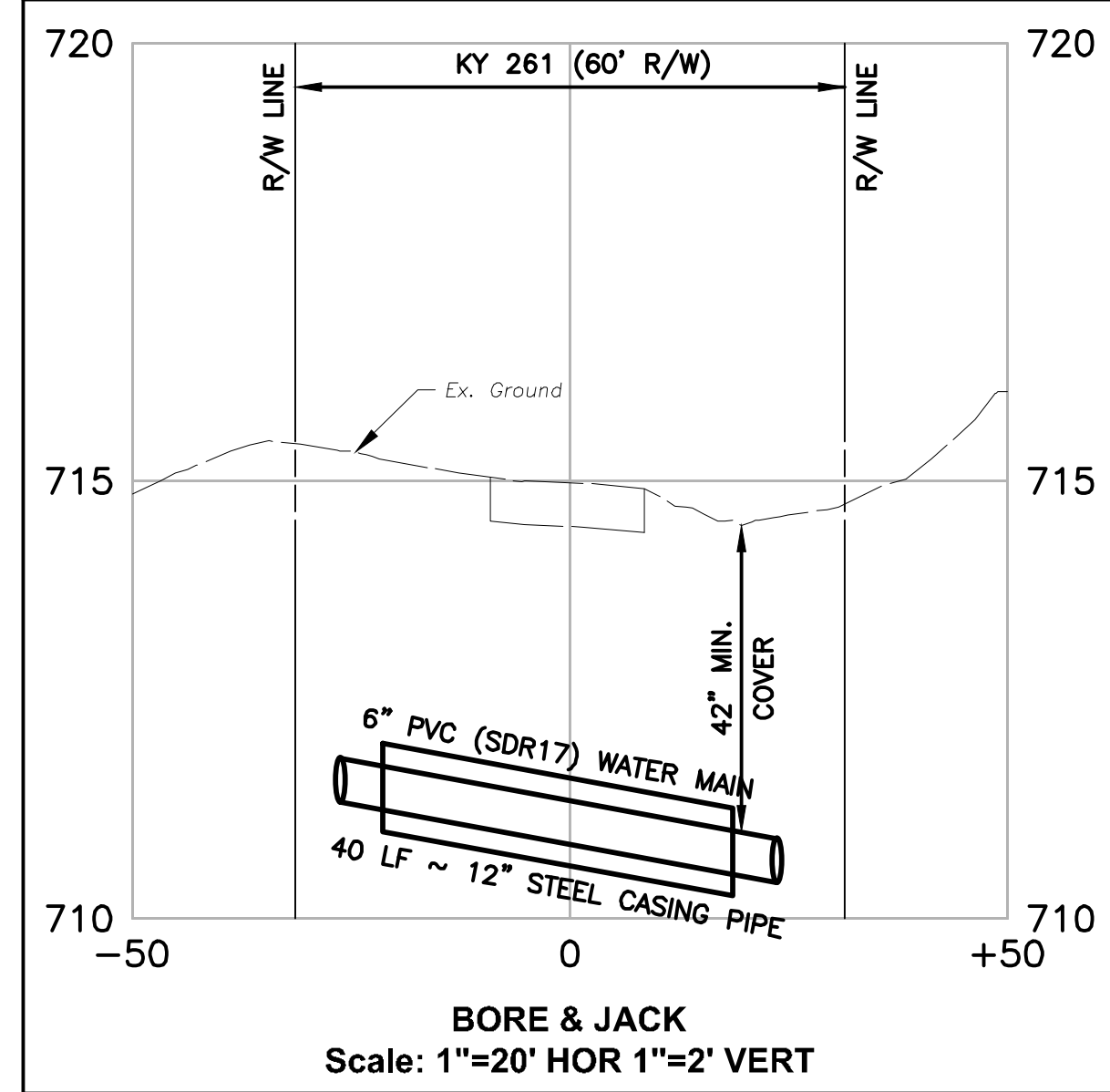
ISSUE	DATE	DESCRIPTION

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

**LINE "D"  
 COUNTRY LANE  
 PLAN SHEET  
 STA. 0+00 TO STA. 21+00**

SCALE 1" = 60'  
 FILENAME Plan-D.dwg  
 SHEET C-24





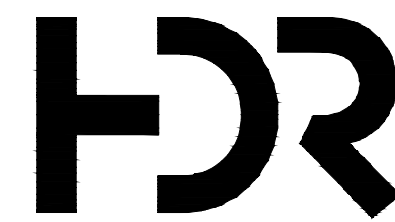
**RECORD DRAWING**

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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

RELOCATING AND TRANSFERRING SERVICES TO THE NEW WATERMAIN WERE DELETED FROM CONTRACT. MCWD WILL PERFORM THIS WORK AT A LATER DATE.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

**LINE "E"  
 KY 703 - SANDY HILL ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00**



STA. MATCHLINE  
18+00

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**HDR ENGINEERING, INC.**  
 DATE: 4/22/22 BY: KEVIN J. DRAH  
 CONTRACTOR: DBT WORKS LIME BRITE, LLC



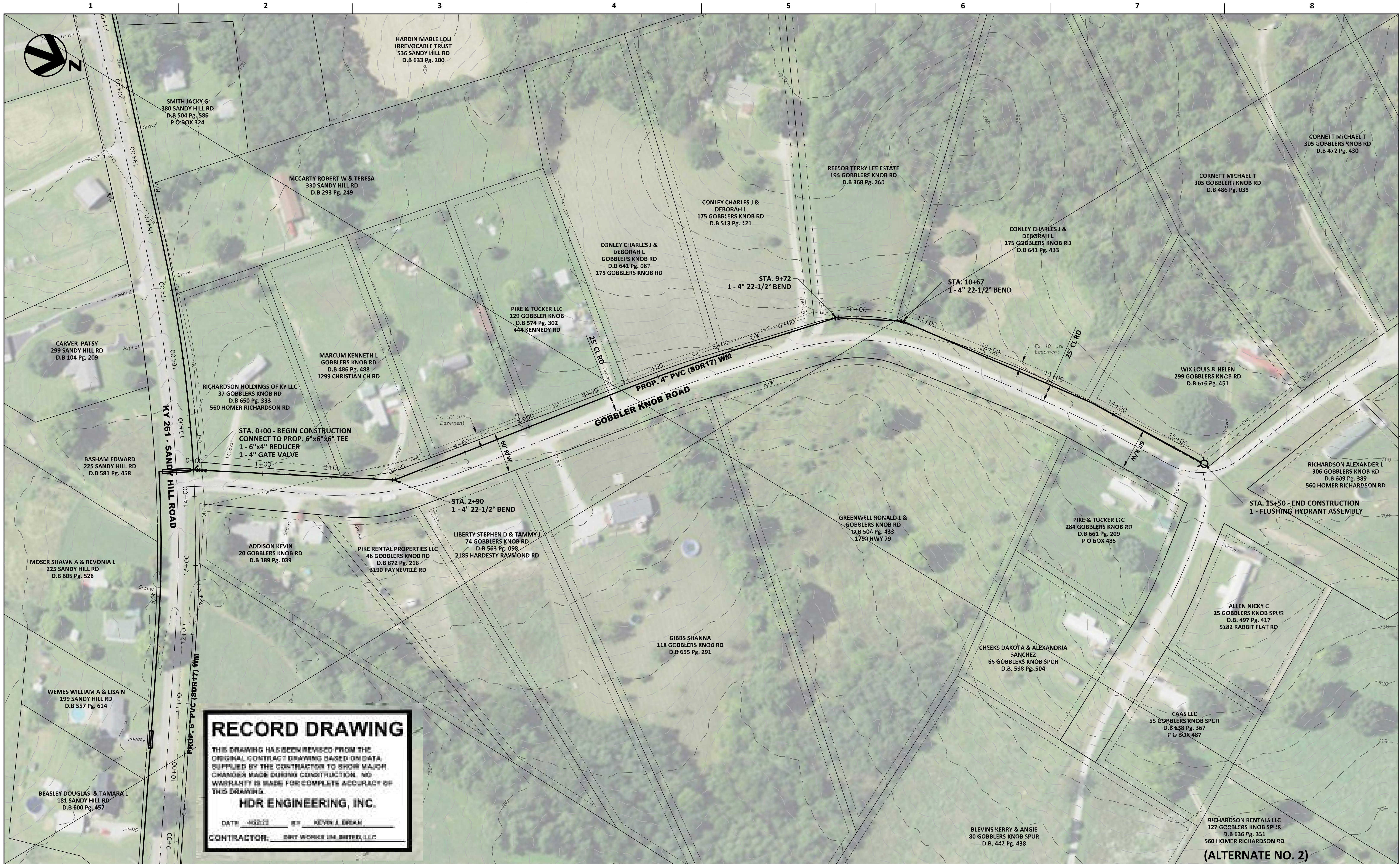
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

0 60' 120' FILENAME: Plan-E\_asbuilts.dwg SHEET: C-26  
 SCALE: 1" = 60'

**LINE "E"  
 KY 703 - SANDY HILL ROAD  
 PLAN SHEET  
 STA. 18+00 TO STA. 37+00**



**RECORD DRAWING**

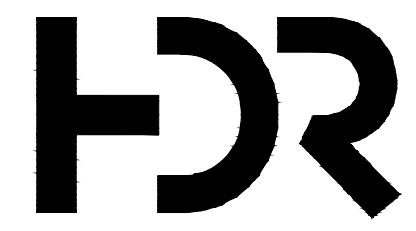
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**HDR ENGINEERING, INC.**

DATE: 4/22/23 BY: KEVIN J. BRIAN

CONTRACTOR: BRT WORKS LIMITED, LLC

(ALTERNATE NO. 2)

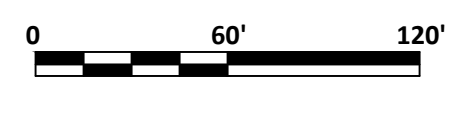


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "E1"  
GOBBLER KNOB ROAD  
PLAN SHEET  
STA. 0+00 TO STA. 15+50**

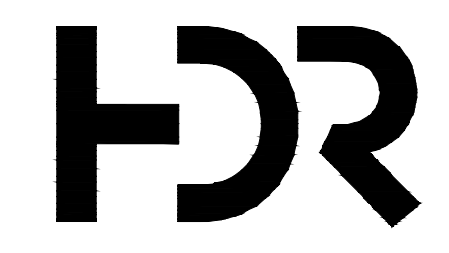


FILENAME: Plan-E\_asbuilts.dwg  
SCALE: 1" = 60'

SHEET  
**C-27**



**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

0 60' 120' FILENAME Plan-F\_asbuilts.dwg  
 SCALE 1" = 60'

**LINE "F"  
 CHARLIE PILE ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00**



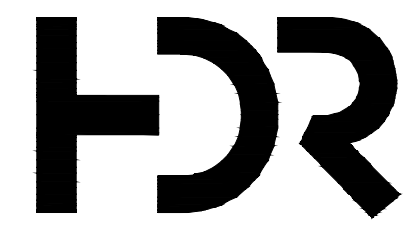
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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "F"  
CHARLIE PILE ROAD  
PLAN SHEET  
STA. 18+00 TO STA. 36+00**

SCALE 1" = 60'

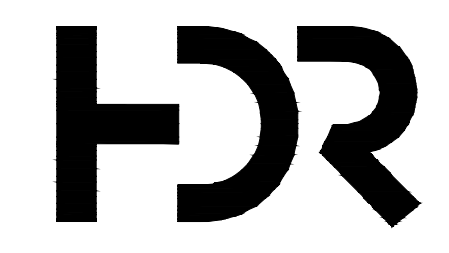
FILENAME Plan-F\_asbuilts.dwg

SHEET C-29





**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



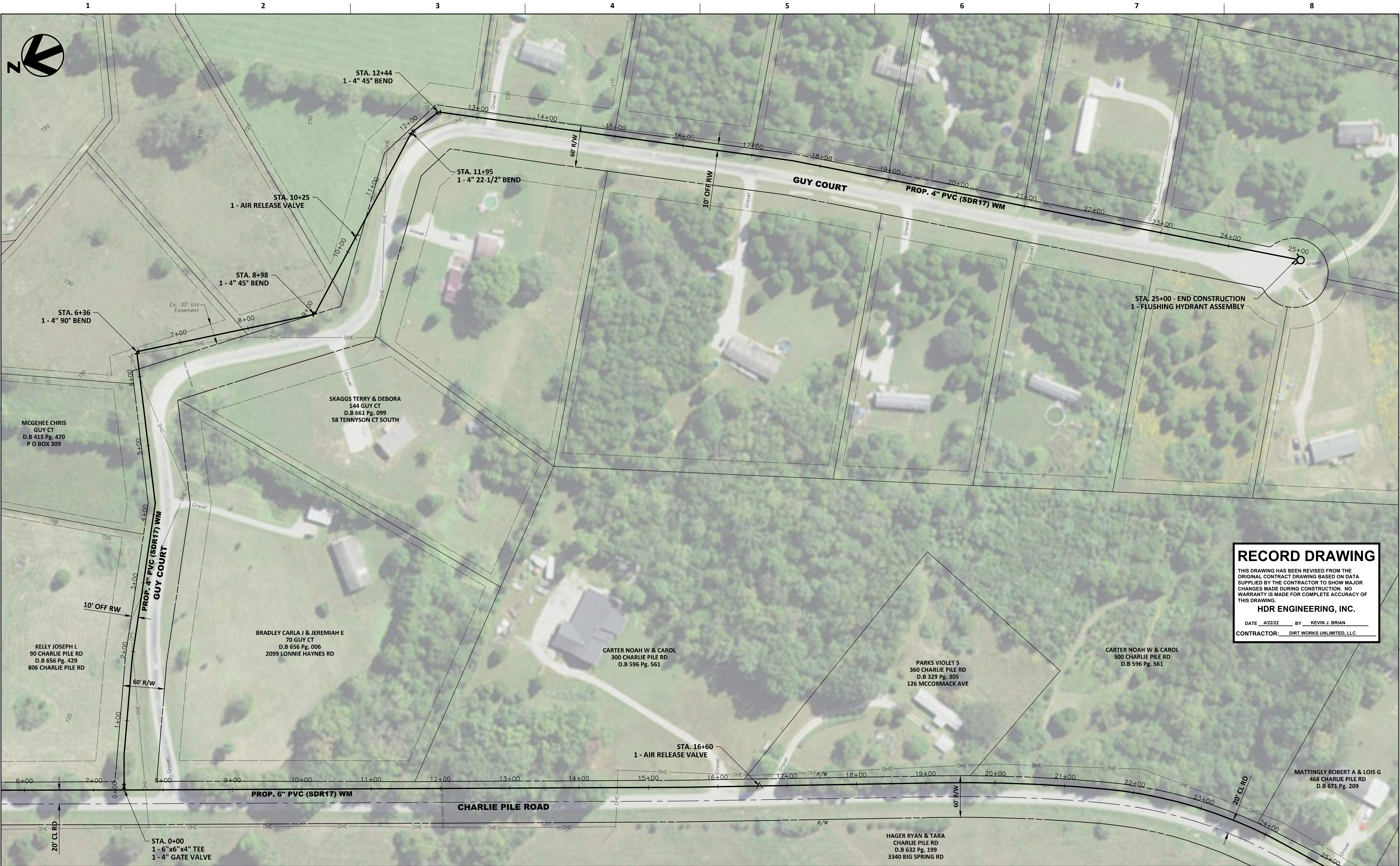
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

0 60' 120' FILENAME: Plan-F\_asbuilts.dwg  
 SCALE: 1" = 60'

**LINE "F"  
 CHARLIE PILE ROAD  
 PLAN SHEET  
 STA. 36+00 TO STA. 42+50**



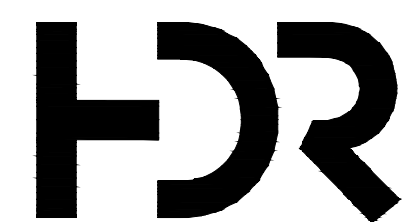
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HDR ENGINEERING, INC.

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**



**LINE "F1"  
GUY COURT  
PLAN SHEET  
STA. 0+00 TO STA. 25+00**

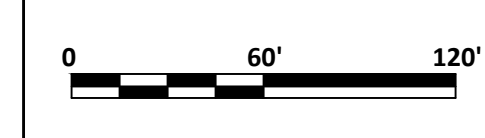
FILENAME | Plan-F\_asbuilts.dwg  
SCALE | 1" = 60'



ISSUE	DATE	DESCRIPTION

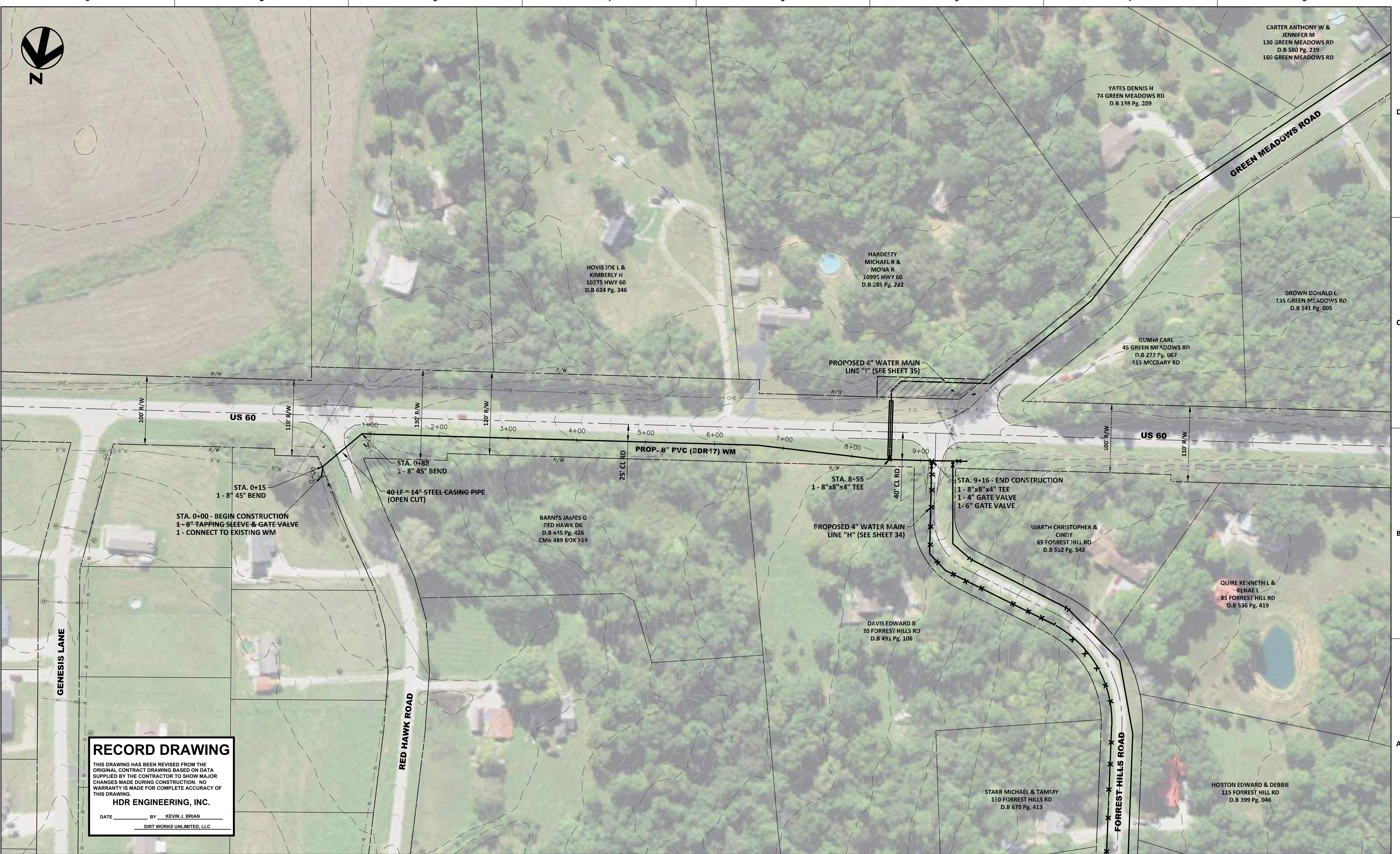
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**

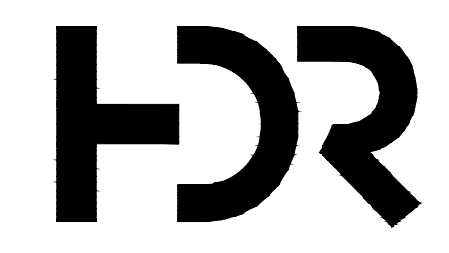


FILENAME | Plan-F\_asbuilts.dwg  
 SCALE | 1" = 60'

**LINE "F2"  
 FALLEN ROAD / OAKS LANE  
 PLAN SHEET  
 STA. 0+00 TO STA. 23+00**



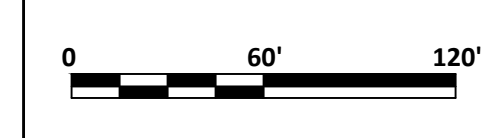
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**HDR ENGINEERING, INC.**  
 DATE \_\_\_\_\_ BY KEVIN J. BRIAN  
 \_\_\_\_\_ DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED LINE EXTENSIONS**



**LINE "G"  
 US 60  
 PLAN SHEET  
 STA. 0+00 TO STA. 11+00**

FILENAME | Plan-G\_asbuilts.dwg  
 SCALE | 1" = 60'

SHEET  
**C-33**



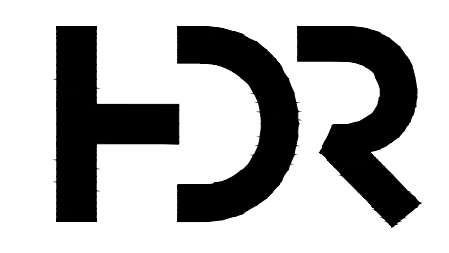
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DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



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DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

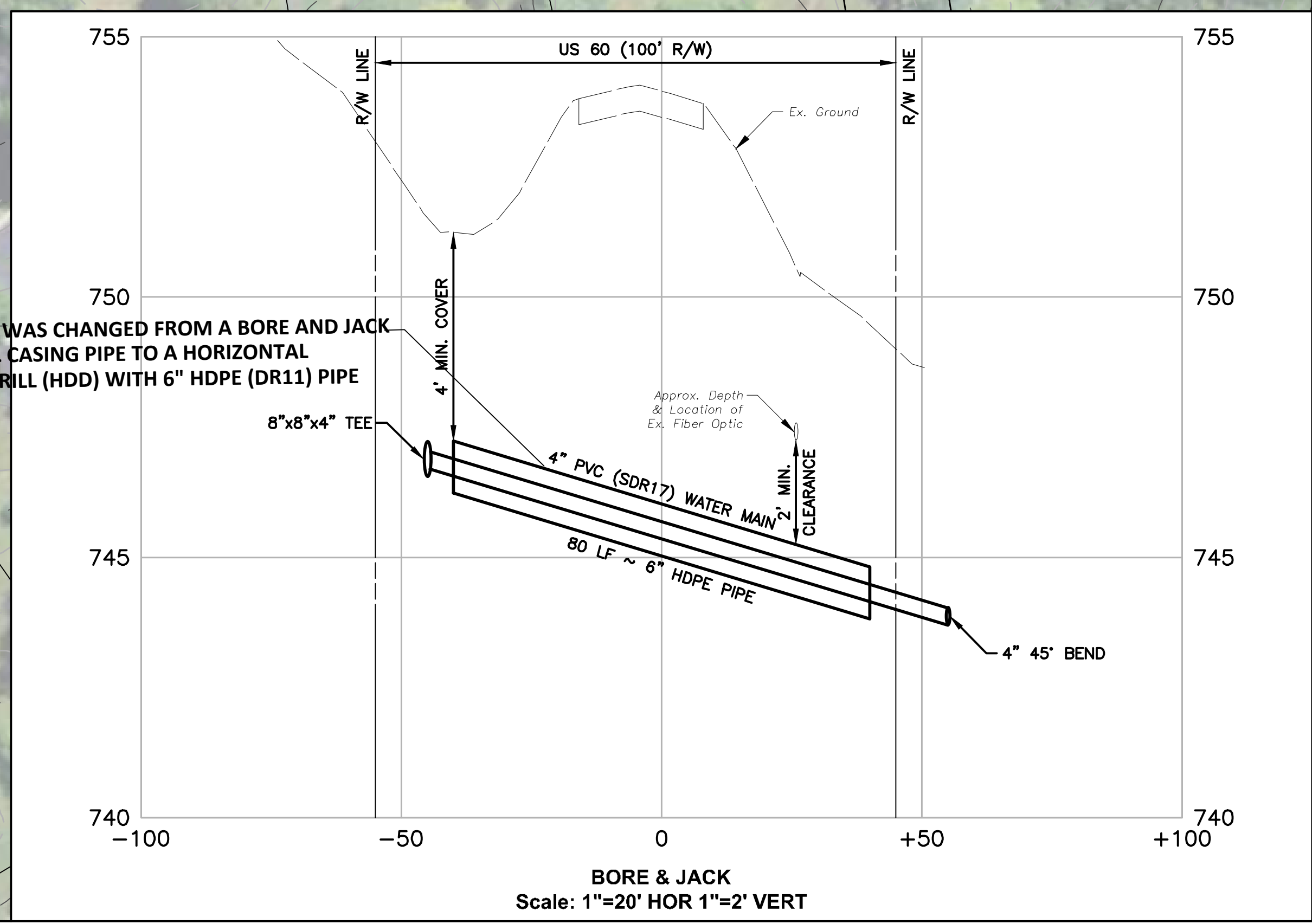
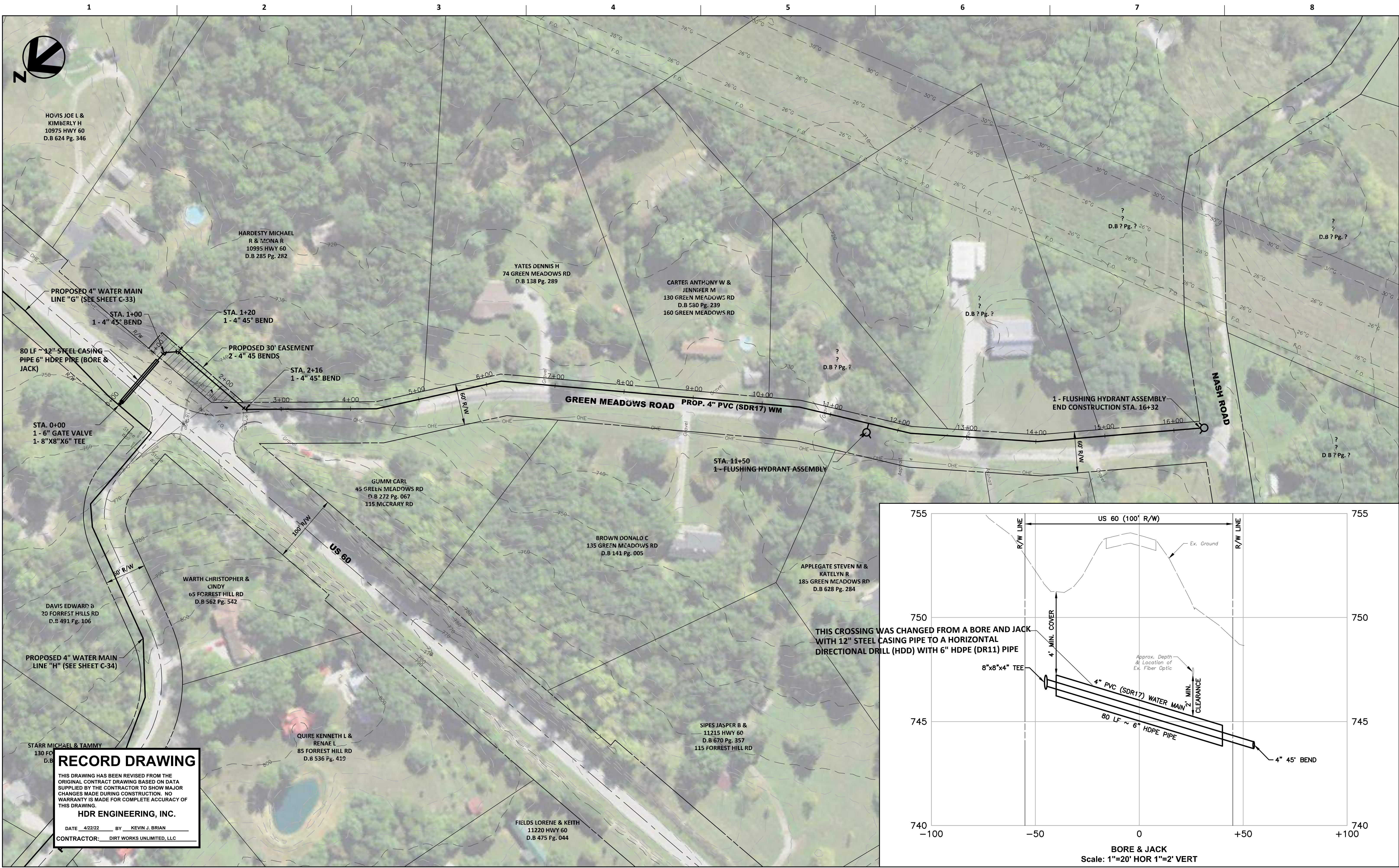
**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

**LINE "H"  
FORREST HILLS ROAD  
PLAN SHEET  
STA. 0+00 TO STA. 15+00**

SCALE 1" = 60'

FILENAME Plan-H\_asbuilts.dwg

SCALE 1" = 60'



**RECORD DRAWING**

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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

ISSUE	DATE	DESCRIPTION

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED LINE EXTENSIONS**

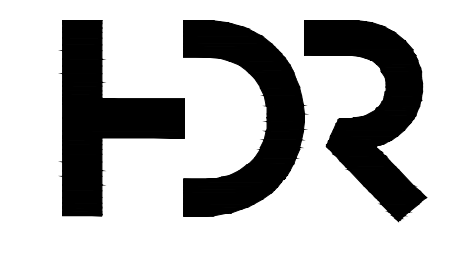
**LINE "I"  
GREEN MEADOWS ROAD  
PLAN SHEET  
STA. 0+00 TO STA. 15+00**

0 60' 120'

FILENAME | Plan-I.dwg

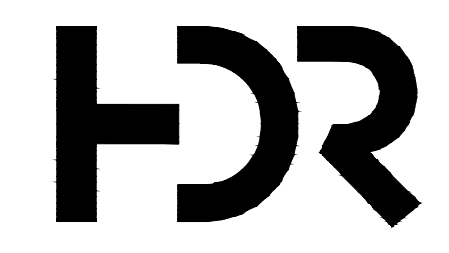
SCALE | 1" = 60'

SHEET  
**C-35**





**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

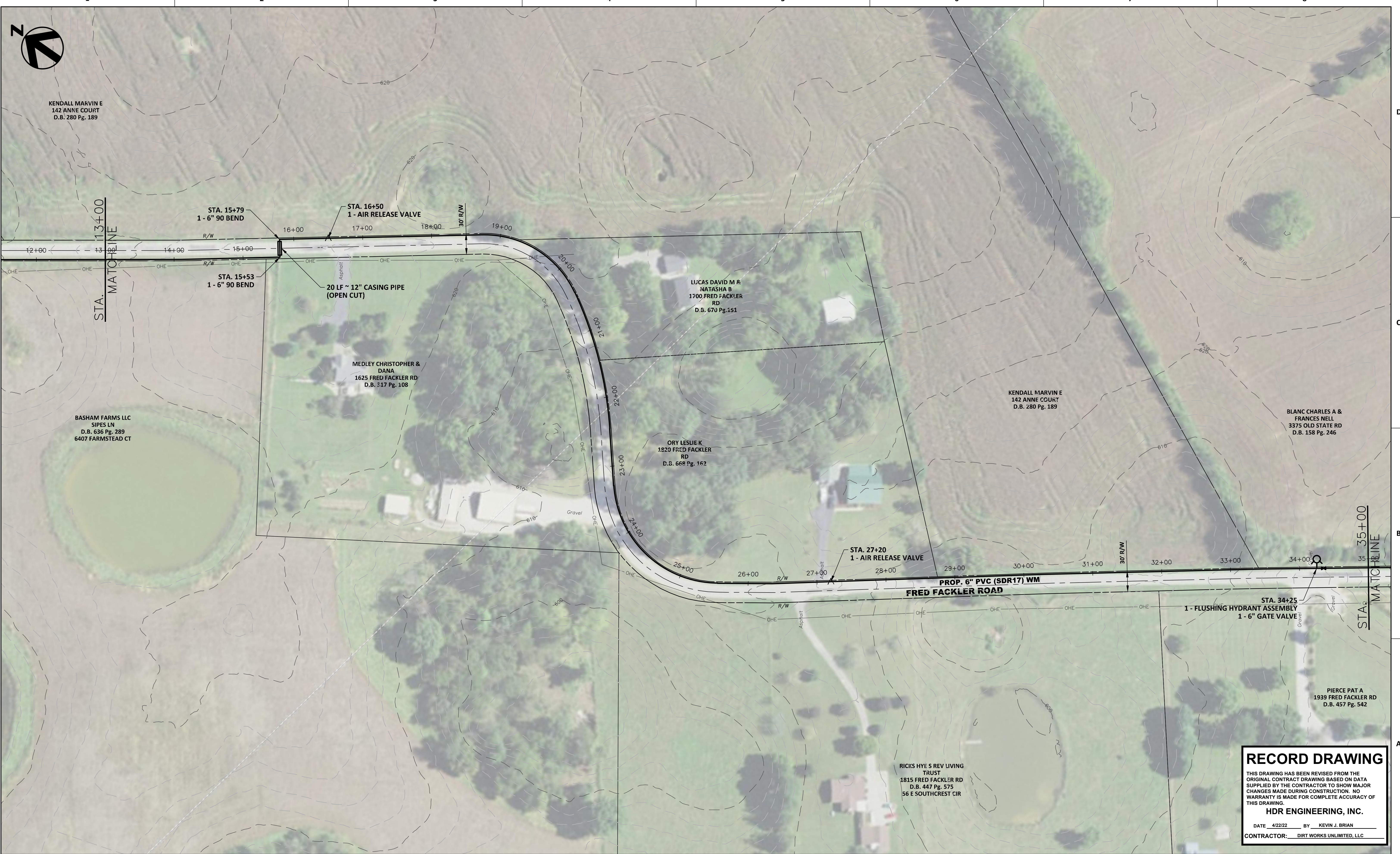
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINE "1"  
 FRED FACKLER ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 13+00**

0 60' 120' SCALE 1" = 60'

FILENAME Plan-1\_Asbuilt.dwg SHEET C-36



KENDALL MARVIN E  
142 ANNE COURT  
D.B. 280 Pg. 189

STA. 13+00  
MATCHLINE

STA. 15+79  
1 - 6" 90 BEND

STA. 16+50  
1 - AIR RELEASE VALVE

STA. 15+53  
1 - 6" 90 BEND

20 LF ~ 12" CASING PIPE  
(OPEN CUT)

MEDLEY CHRISTOPHER &  
DANA  
1625 FRED FACKLER RD  
D.B. 317 Pg. 108

BASHAM FARMS LLC  
SIPES LN  
D.B. 636 Pg. 289  
6407 FARMSTEAD CT

LUCAS DAVID M &  
NATASHA B  
1700 FRED FACKLER  
RD  
D.B. 670 Pg. 151

ORY LESLIE K  
1920 FRED FACKLER  
RD  
D.B. 668 Pg. 162

KENDALL MARVIN E  
142 ANNE COURT  
D.B. 280 Pg. 189

BLANC CHARLES A &  
FRANCES NELL  
3375 OLD STATE RD  
D.B. 158 Pg. 246

STA. 27+20  
1 - AIR RELEASE VALVE

PROP. 6" PVC (SDR17) WM  
FRED FACKLER ROAD

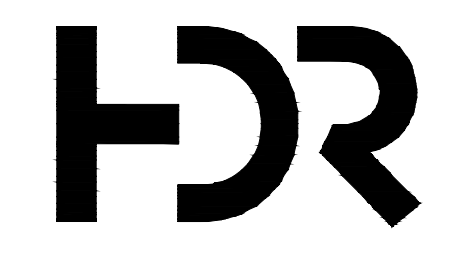
STA. 34+25  
1 - FLUSHING HYDRANT ASSEMBLY  
1 - 6" GATE VALVE

STA. 35+00  
MATCHLINE

PIERCE PAT A  
1939 FRED FACKLER RD  
D.B. 457 Pg. 542

RICKS HYE S REV LIVING  
TRUST  
1815 FRED FACKLER RD  
D.B. 447 Pg. 575  
56 E SOUTHCREST CIR

**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
DATE 4/22/22 BY KEVIN J. BRIAN  
CONTRACTOR: DIRT WORKS UNLIMITED, LLC

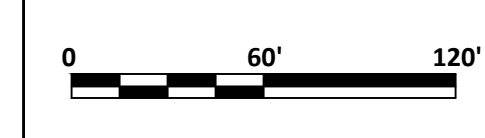


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES

LINE "1"  
FRED FACKLER ROAD  
PLAN SHEET  
STA. 13+00 TO STA. 35+00



FILENAME Plan-1\_Asbuilt.dwg  
SCALE 1" = 60'

SHEET  
C-37





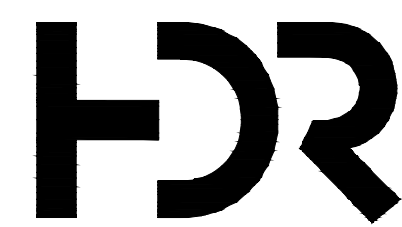
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HDR ENGINEERING, INC.

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

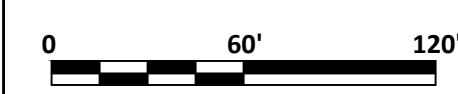


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES**

**LINE "1"  
FRED FACKLER ROAD  
PLAN SHEET  
STA. 35+00 TO STA. 57+00**



FILENAME | Plan-1\_Asbuilt.dwg  
SCALE | 1" = 60'

SHEET  
**C-38**



BARGER ALICIA  
SUPPLEMENTAL  
NEEDS TR  
2357 FRED FACKLER  
RD  
D.B. 616 Pg. 496

STA. 57+00  
1 - AIR RELEASE VALVE

POE DAVID & VIRGINIA  
OWEN POE  
2430 FRED FACKLER RD  
D.B. 390 Pg. 381

40 LF ~ 12" STEEL CASING PIPE  
(BORE & JACK)

STA. 63+50  
1 - AIR RELEASE VALVE

MOFIELD LARRY & JULIE  
4500 OLD STATE RD  
D.B. 597 Pg. 448

FRANK GARRETT S &  
LINDSEY A  
4520 OLD STATE RD  
D.B. 597 Pg. 511

FACKLER WILLIE LEE  
4560 OLD STATE RD  
D.B. 137 Pg. 412

RUDDOLPH STEPHEN  
4610 OLD STATE RD  
D.B. 622 Pg. 060

STA. 66+46 - END CONSTRUCTION  
1 - 8"x6" TAPPING SLEEVE AND VALVE

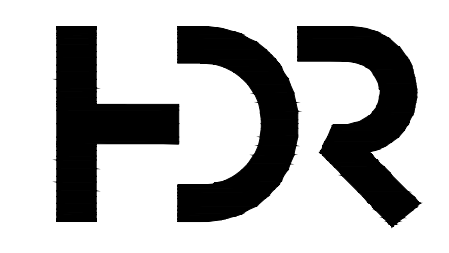
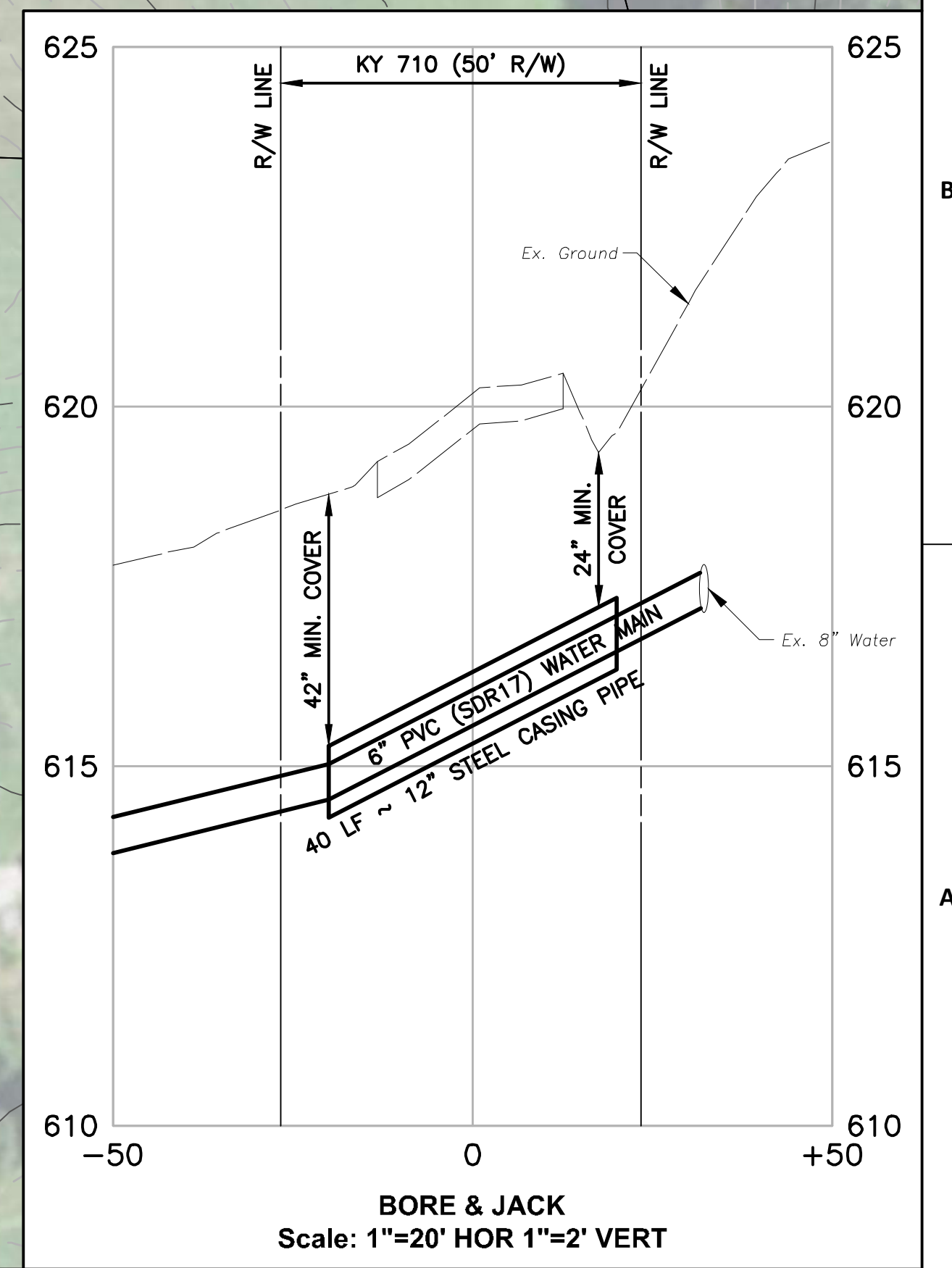
PYLES LAVERNE  
2371 FRED  
FACKLER RD  
D.B. 084 Pg. 491

ADAMS ANGELA &  
MICHAEL L  
2515 FRED FACKLER  
RD  
D.B. 539 Pg. 051

RORCHERT DANIEL A &  
DANIELLE N  
4685 OLD STATE RD  
D.B. 661 Pg. 009

SHELMAN JOSEPH L  
& LINDA K  
2025 FRED FACKLER  
RD  
D.B. 655 Pg. 027

**RECORD DRAWING**  
THIS DRAWING HAS BEEN REVISED FROM THE ORIGINAL CONTRACT DRAWING BASED ON DATA SUPPLIED BY THE CONTRACTOR TO SHOW MAJOR CHANGES MADE DURING CONSTRUCTION. NO WARRANTY IS MADE FOR COMPLETE ACCURACY OF THIS DRAWING.  
**HDR ENGINEERING, INC.**  
DATE 4/22/22 BY KEVIN J. BRIAN  
CONTRACTOR: DIRT WORKS UNLIMITED, LLC

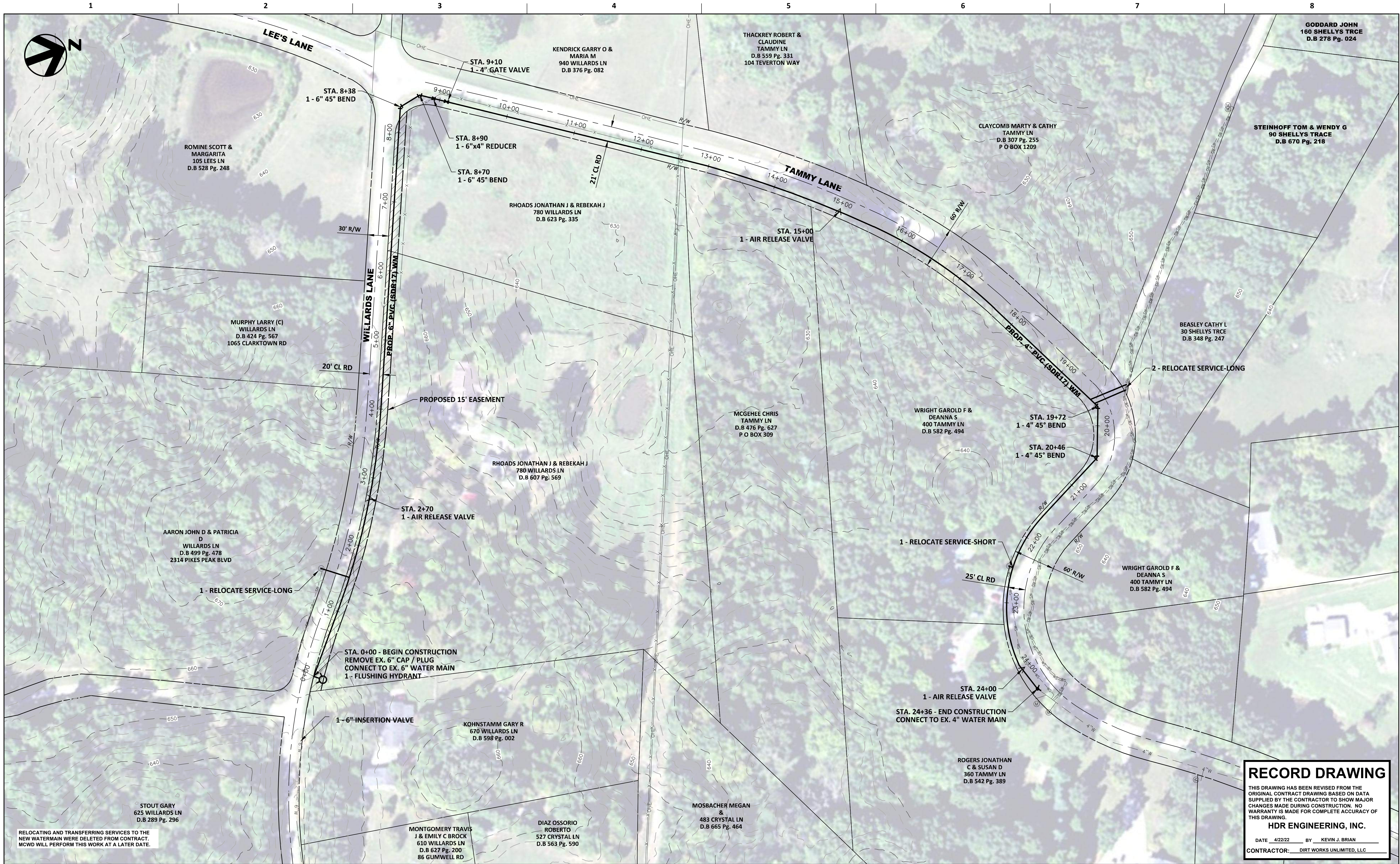


PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

ISSUE	DATE	DESCRIPTION

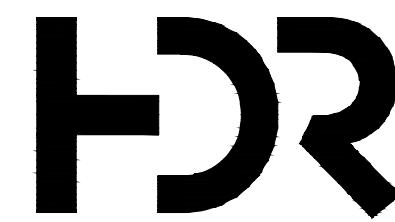
MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES

LINE "1"  
FRED FACKLER ROAD  
PLAN SHEET  
STA. 57+00 TO STA. 66+50



RELOCATING AND TRANSFERRING SERVICES TO THE NEW WATERMAIN WERE DELETED FROM CONTRACT. MCWD WILL PERFORM THIS WORK AT A LATER DATE.

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 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

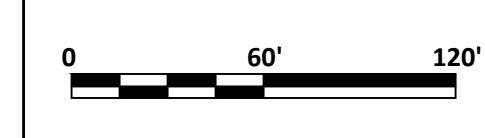


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINE "2"  
 TAMMY LANE & WILLARDS LANE  
 PLAN SHEET  
 STA. 0+00 TO STA. 24+30**



FILENAME | Plan-2\_asbuilt.dwg  
 SCALE | 1" = 60'

SHEET  
**C-40**



**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



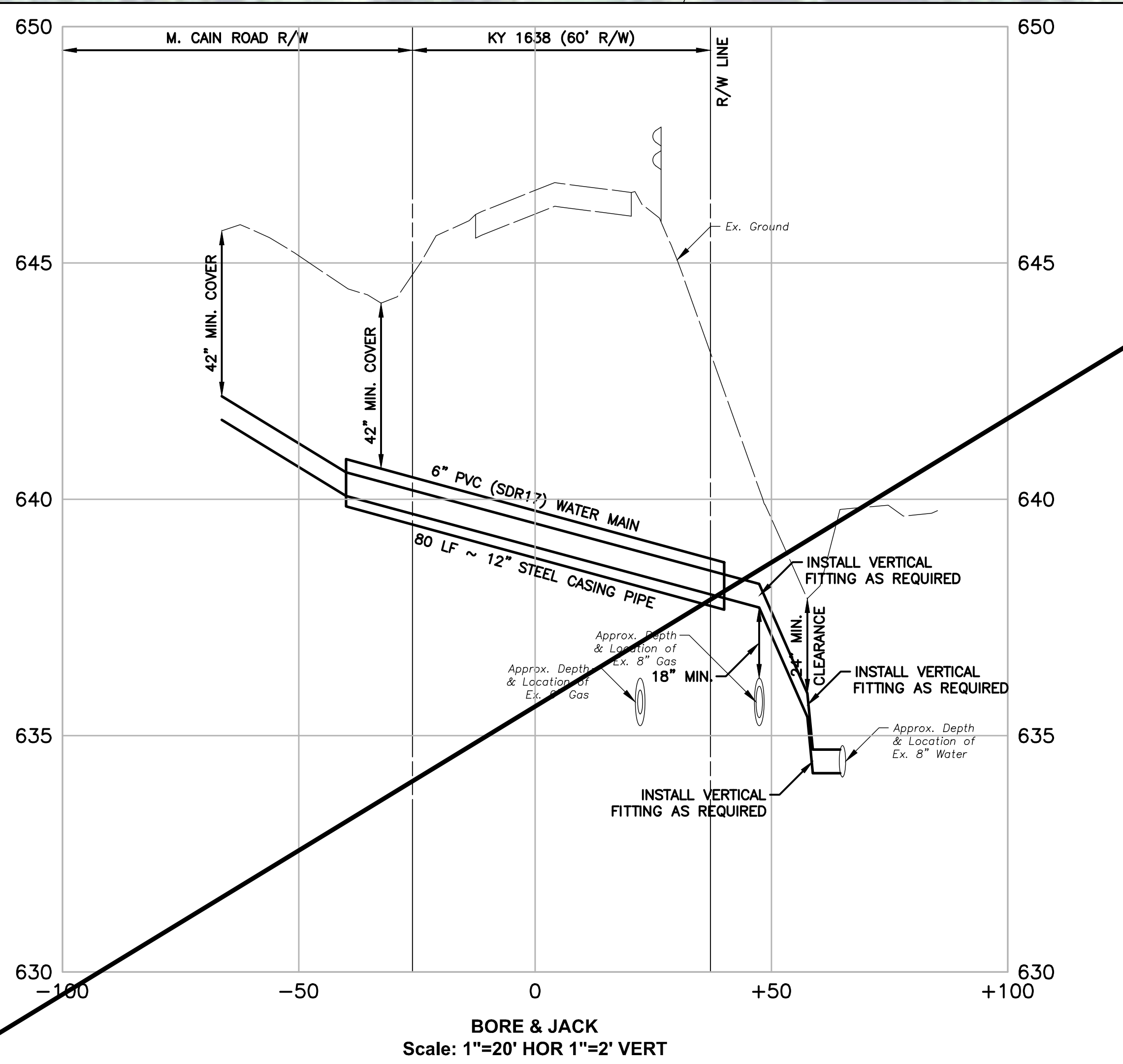
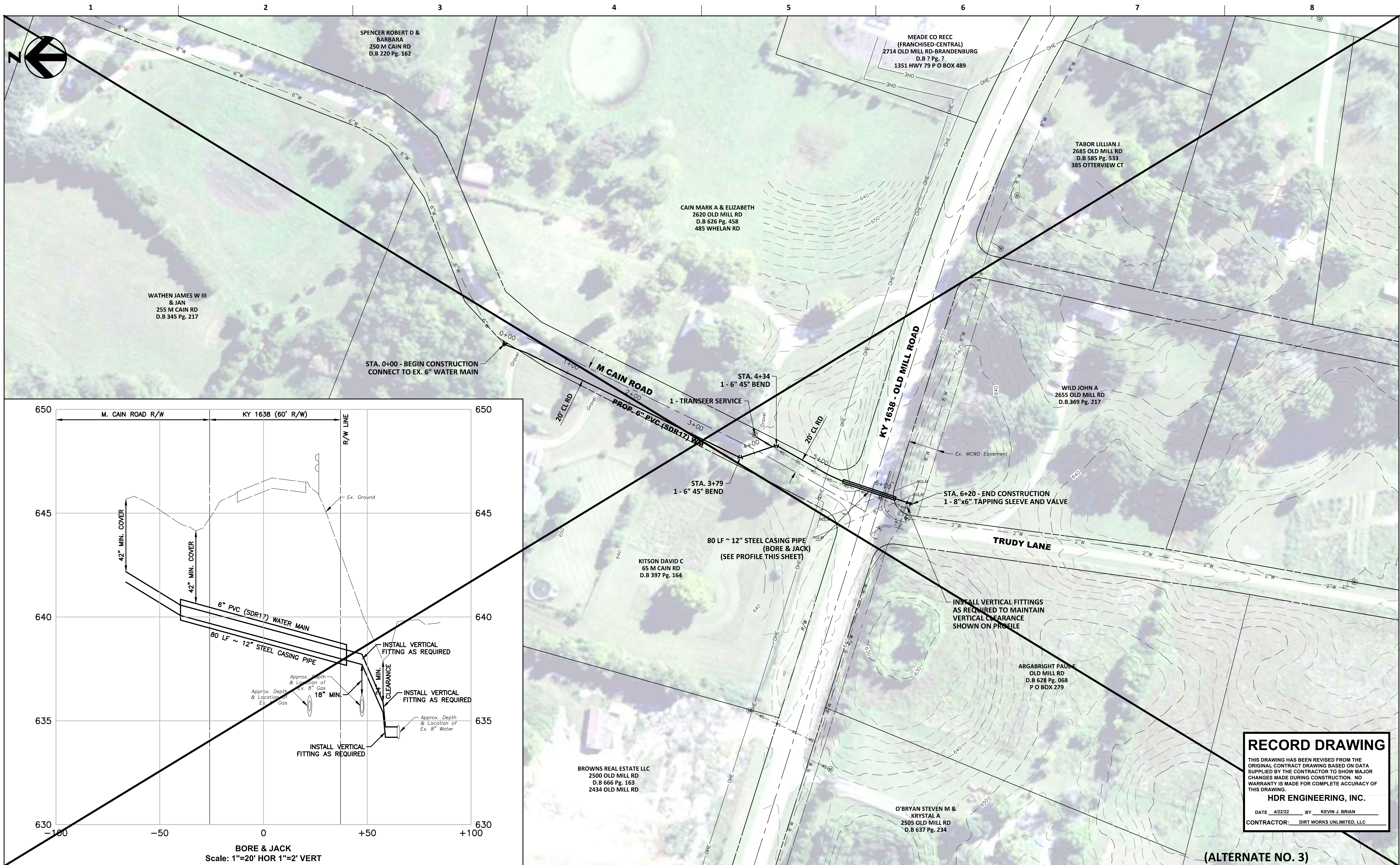
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINE "3"  
 BUCK GROVE ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 21+00**

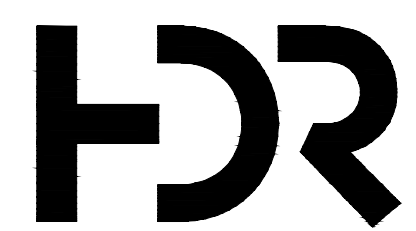
0 60' 120' FILENAME Plan-3\_asbuilt.dwg SHEET  
 SCALE 1" = 60' **C-41**



**BORE & JACK**  
Scale: 1"=20' HOR 1"=2' VERT

**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
DATE: 4/22/22 BY: KEVIN J. BRIAN  
CONTRACTOR: DIRT WORKS UNLIMITED, LLC

(ALTERNATE NO. 3)



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES**

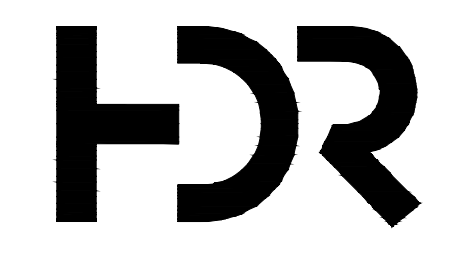
0 60' 120' FILENAME: Plan-4\_asbuilt.dwg SHEET: C-42  
SCALE: 1" = 60'

**LINE "4"  
M. CAIN ROAD AT KY 1638  
PLAN SHEET  
STA. 0+00 TO STA. 6+50**



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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



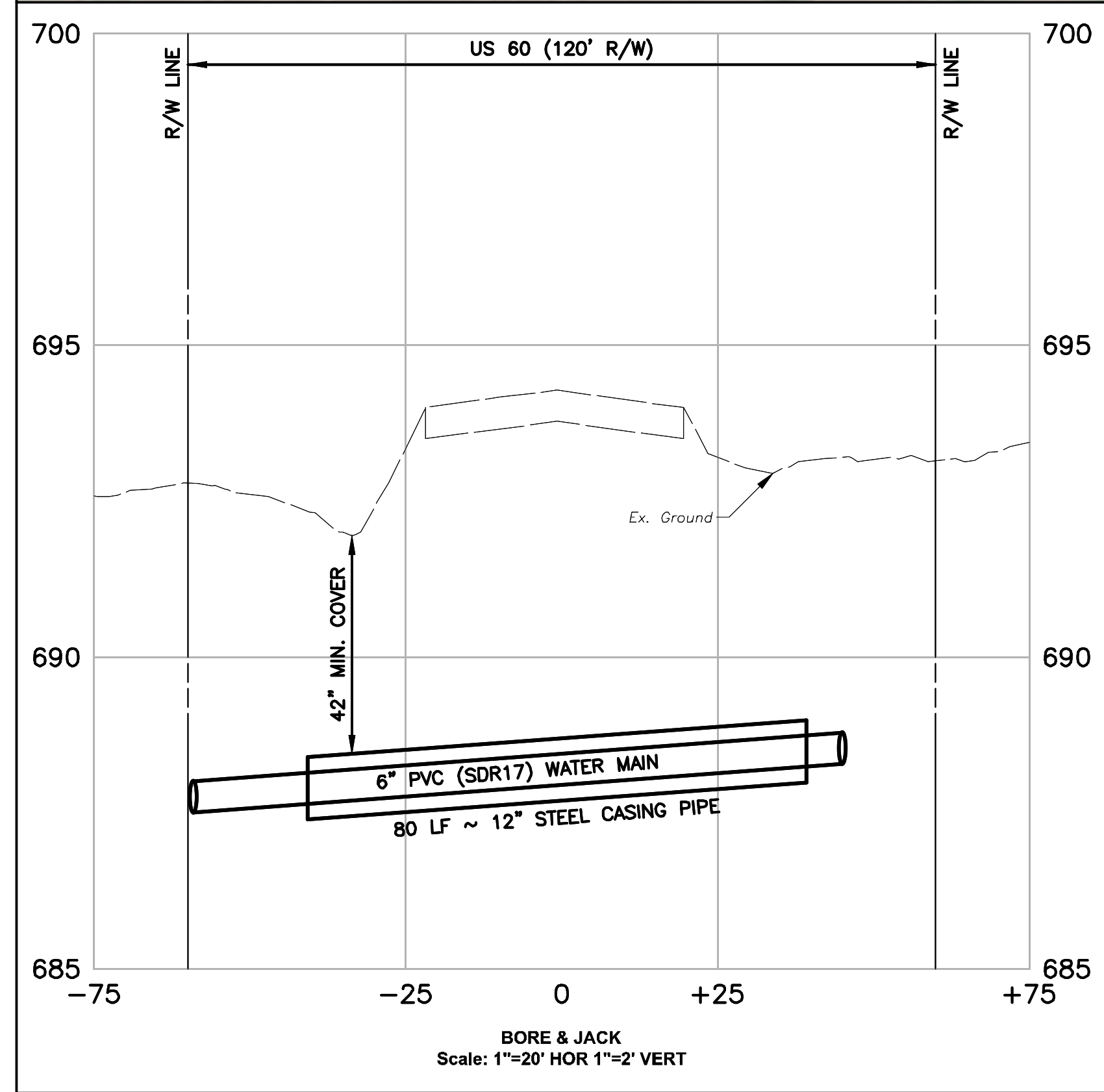
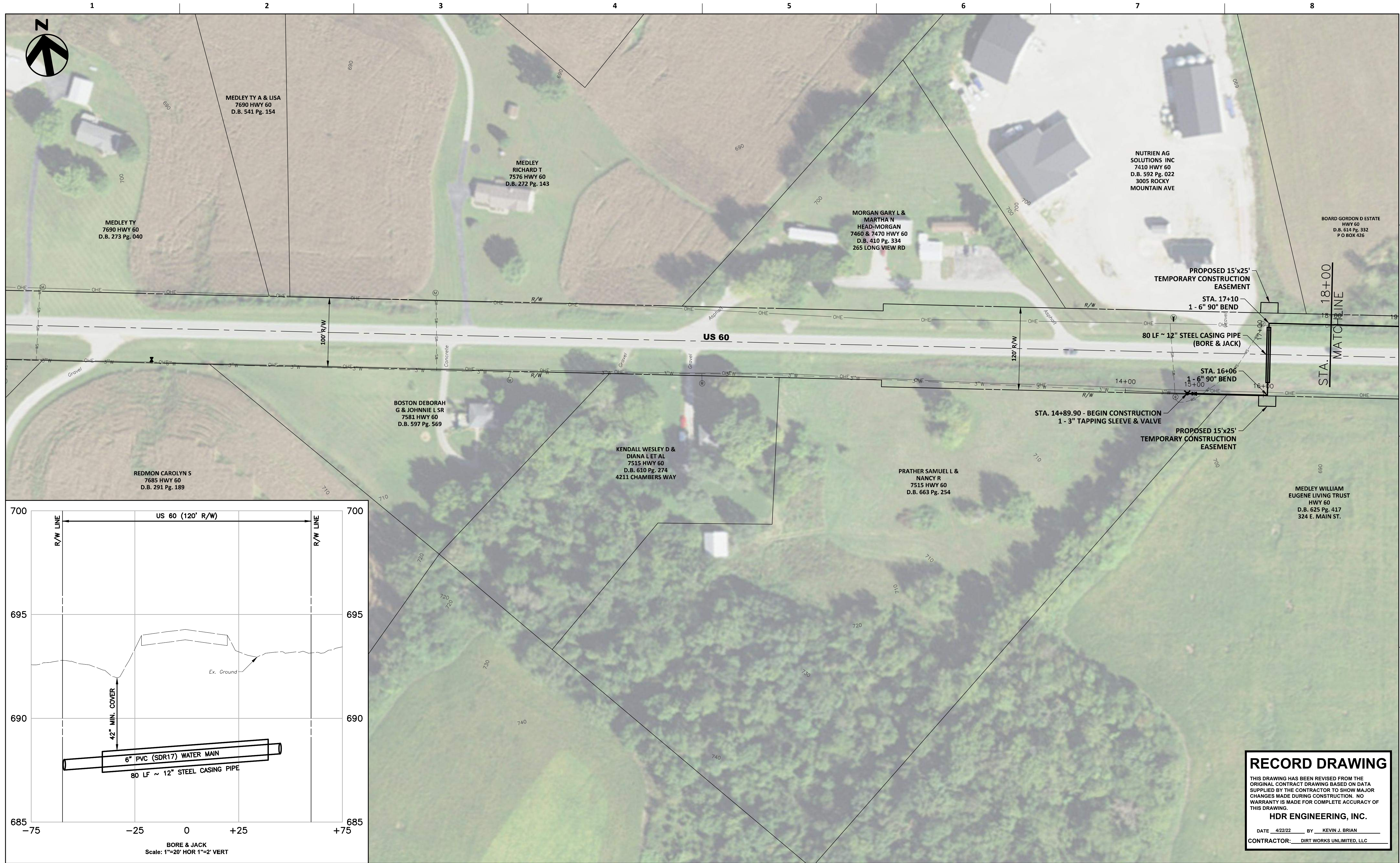
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

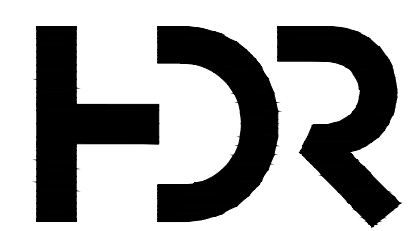
**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINE "5"  
 WHELAN ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 19+00**

SCALE 1" = 60'  
 FILENAME Plan-5\_asbuitts.dwg  
 SHEET C-43



**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

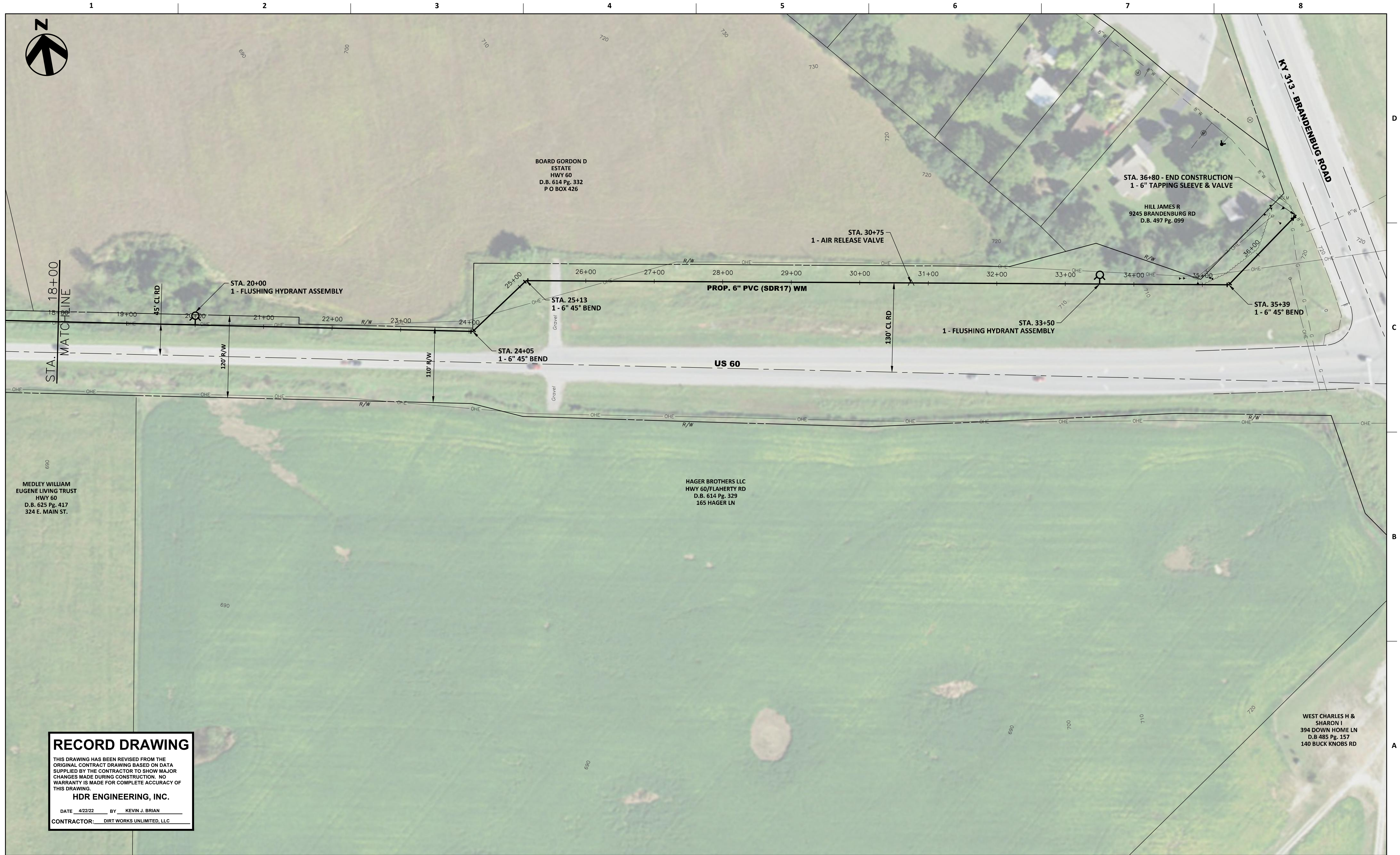
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

LINE "6"  
 US 60  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00

SCALE 1" = 60'

FILENAME Plan-6\_asbuitts.dwg SHEET C-44



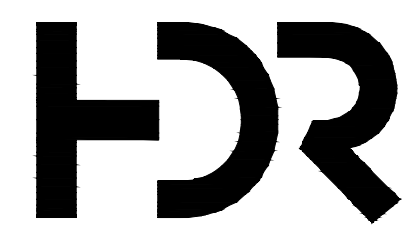
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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES**

0 60' 120'

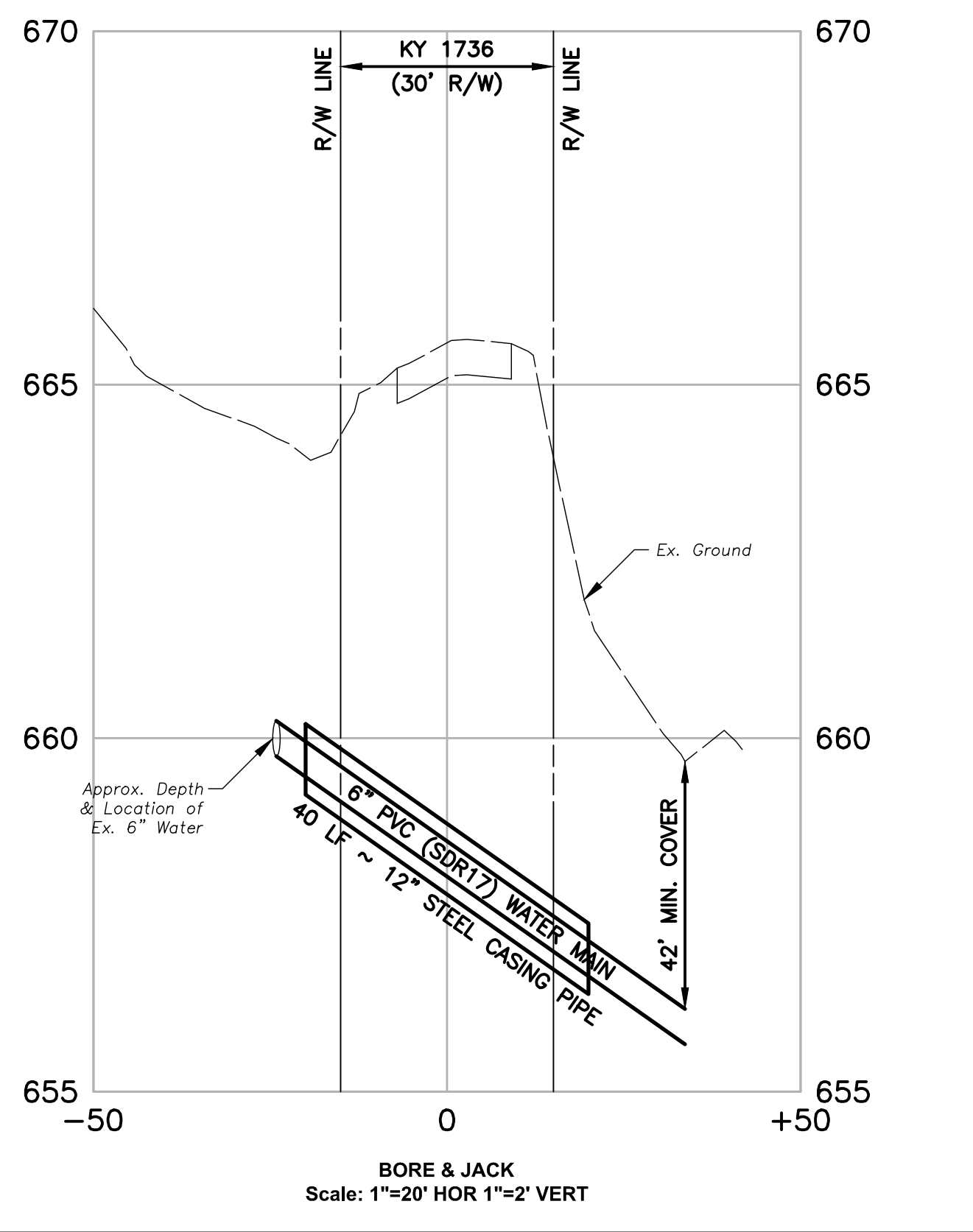
SCALE 1" = 60'

FILENAME Plan-6\_asbuits.dwg

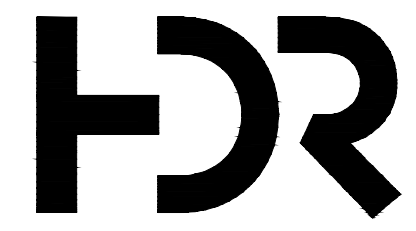
**LINE "6"  
US 60  
PLAN SHEET  
STA. 18+00 TO STA. 37+00**

SHEET  
**C-45**





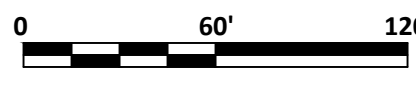
**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINE "7"  
 FARRIS ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 18+00**

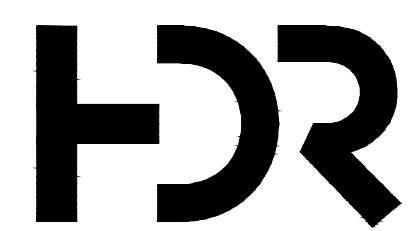


FILENAME | Plan-7\_asbuilts.dwg  
 SCALE | 1" = 60'

SHEET  
**C-46**



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**HDR ENGINEERING, INC.**  
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 CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

0 60' 120'  
 SCALE 1" = 60'  
 FILENAME Plan-7\_asbuilts.dwg  
 SHEET C-47

**LINE "7"  
 FARRIS ROAD  
 PLAN SHEET  
 STA. 18+00 TO STA. 36+50**



**RECORD DRAWING**

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HDR ENGINEERING, INC.  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

RUSSELL PROPERTIES LLC  
 4920 OLD MILL RD  
 D.B. 604 Pg. 306  
 0703 CHAIN IVY CT

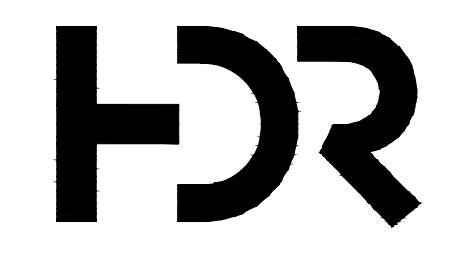
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

ISSUE	DATE	DESCRIPTION

MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES

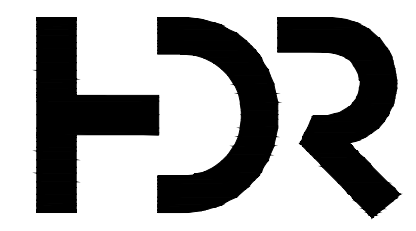
LINE "8"  
 KY 1238 - GARRETT ROAD  
 PLAN SHEET  
 STA. 0+00 TO STA. 16+00

SCALE 1" = 60'  
 FILENAME Plan-8\_asbuitts.dwg  
 SHEET C-48





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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

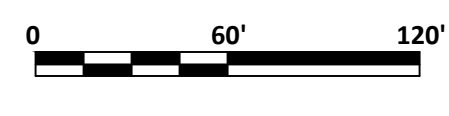


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINE "8"  
 KY 1238 - GARRETT ROAD  
 PLAN SHEET  
 STA. 16+00 TO STA. 33+00**

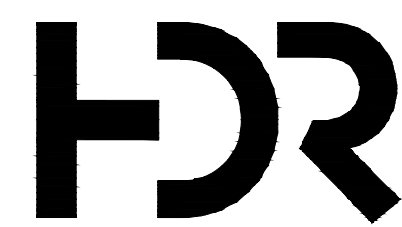


FILENAME | Plan-8\_asbuilts.dwg  
 SCALE | 1" = 60'

SHEET  
**C-49**



**RECORD DRAWING**  
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ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
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DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

SCALE 1" = 60'

FILENAME Plan-8\_asbuilts.dwg  
 SCALE 1" = 60'

SHEET  
**C-50**

**LINE "8"  
 KY 1238 - GARRETT ROAD  
 PLAN SHEET  
 STA. 33+00 TO STA. 50+00**



**RECORD DRAWING**

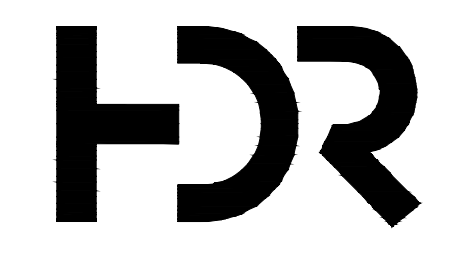
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**HDR ENGINEERING, INC.**

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

RELOCATING AND TRANSFERRING SERVICES TO THE NEW WATERMAIN WERE DELETED FROM CONTRACT. MCWD WILL PERFORM THIS WORK AT A LATER DATE.



ISSUE	DATE	DESCRIPTION

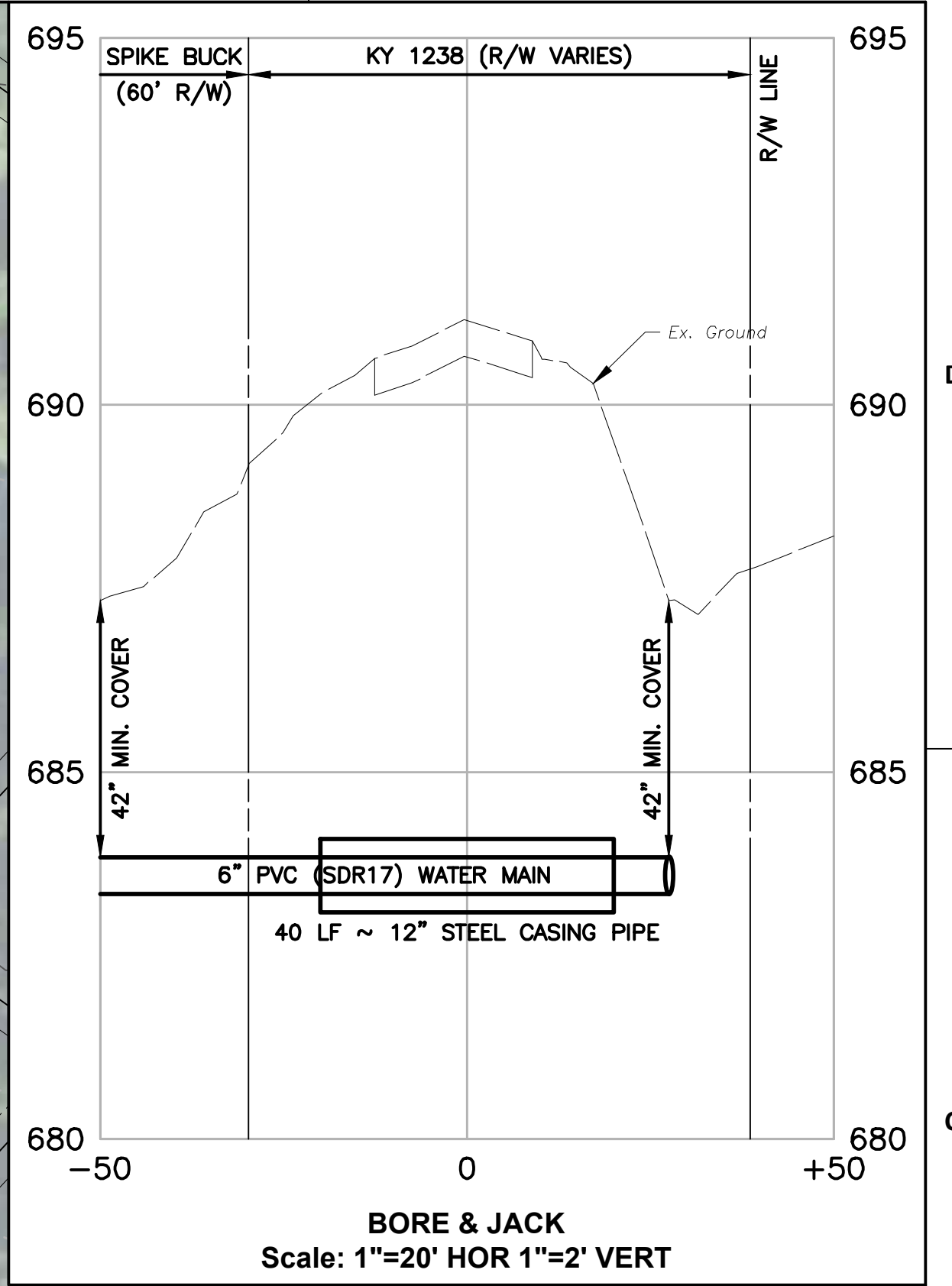
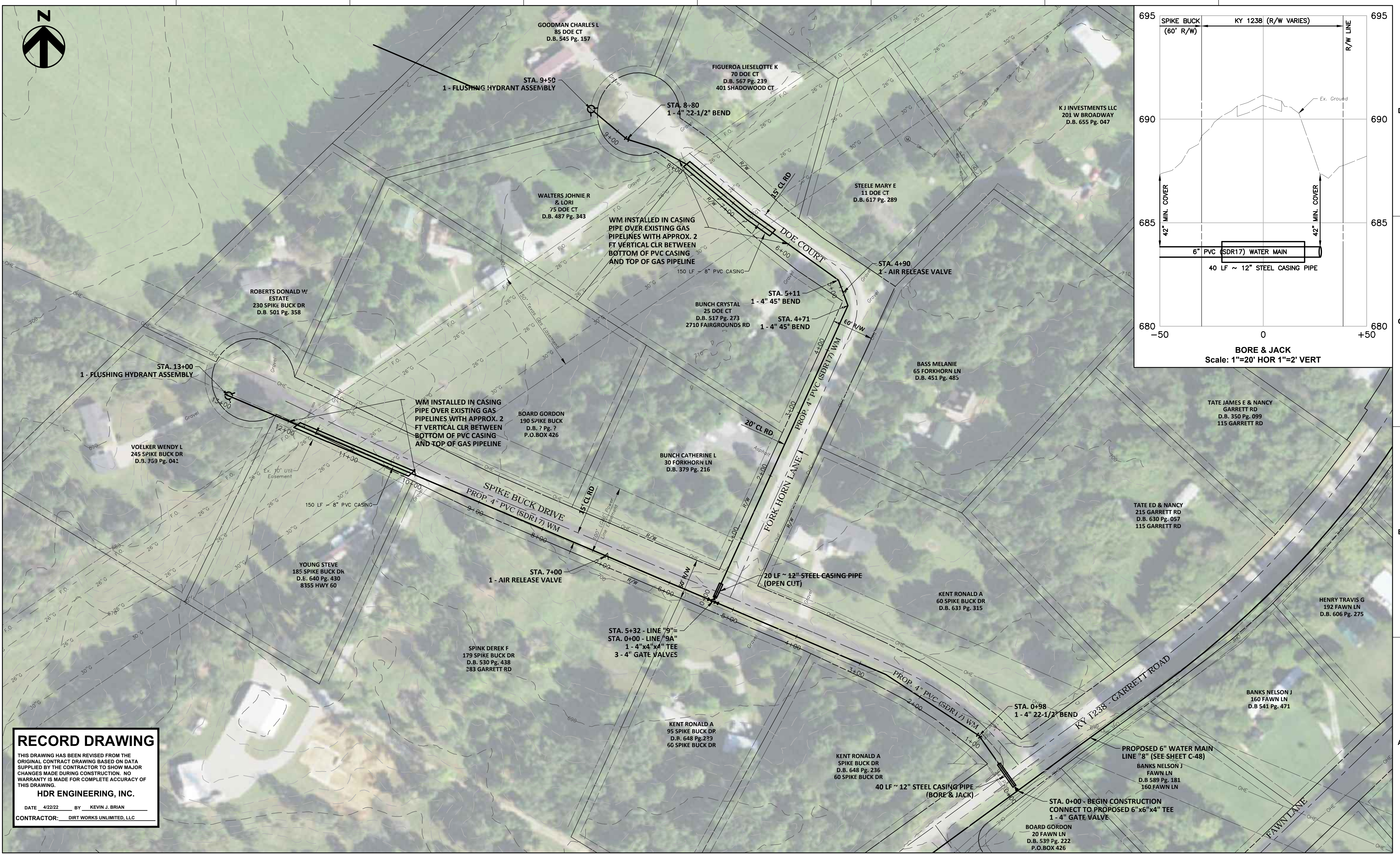
PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES**

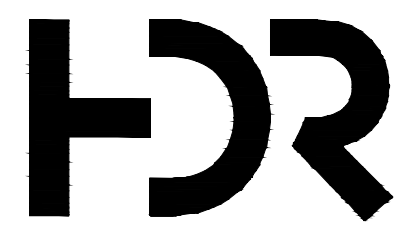
**LINE "8"  
KY 1238 - GARRETT ROAD  
PLAN SHEET  
STA. 50+00 TO STA. 65+00**

0 60' 120' FILENAME Plan-8\_asbuitts.dwg SHEET C-51

SCALE 1" = 60'



**RECORD DRAWING**  
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**HDR ENGINEERING, INC.**  
 DATE 4/22/22 BY KEVIN J. BRIAN  
 CONTRACTOR: DIRT WORKS UNLIMITED, LLC

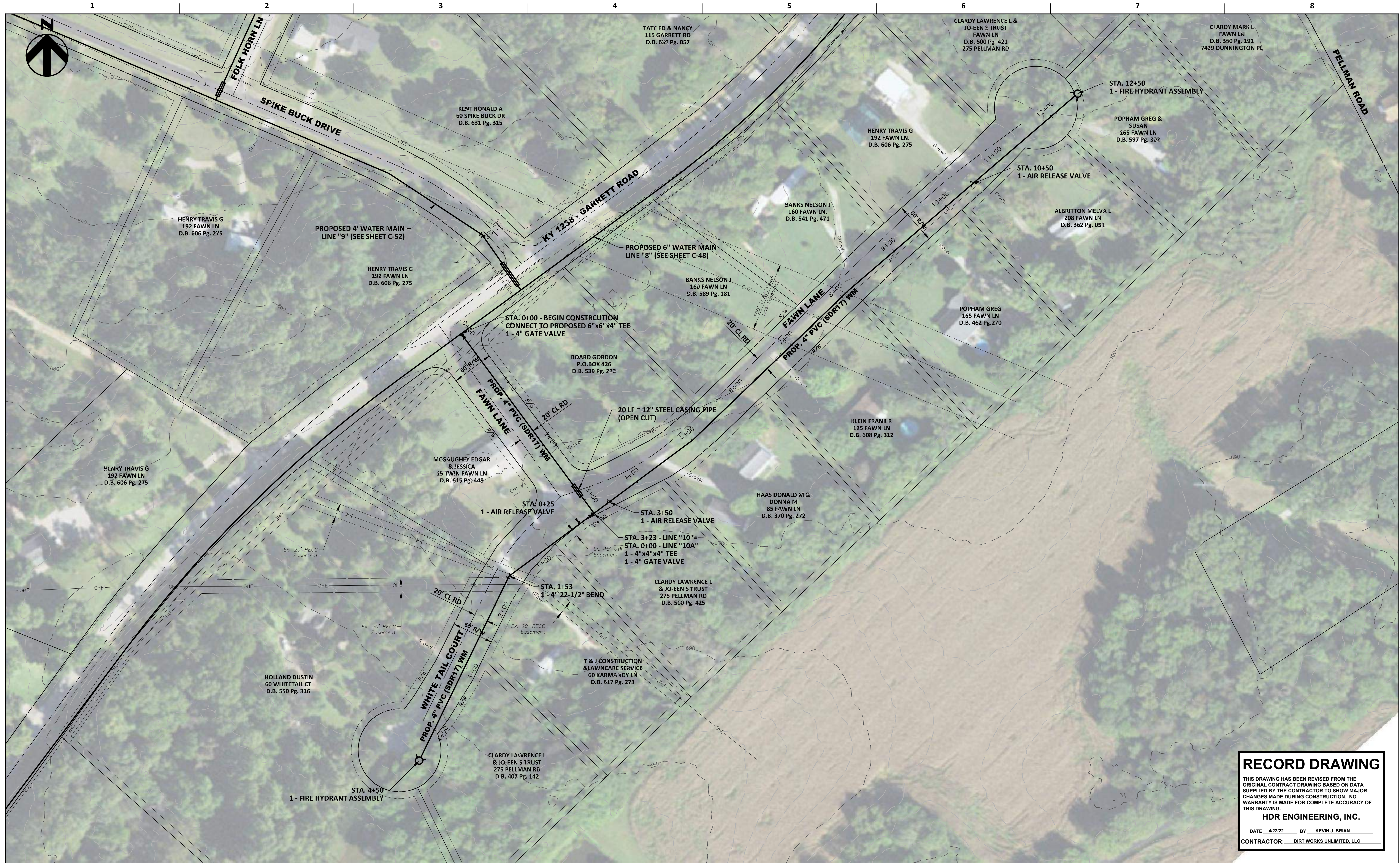


PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
 2019 WATER SYSTEM IMPROVEMENTS  
 PROPOSED GRID TIES**

**LINES "9" & "9A"  
 SPIKE BUCK DR. & FORK HORN LN. / DOE CT.  
 PLAN SHEET  
 STA. 0+00 TO STA. 13+00 & STA. 0+00 TO STA. 9+50**

0 60' 120' FILENAME Plan-9\_asbuilts.dwg SHEET  
 SCALE 1" = 60' C-52



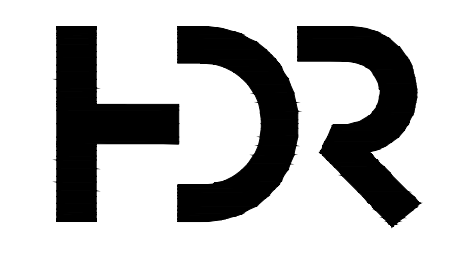
**RECORD DRAWING**

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**HDR ENGINEERING, INC.**

DATE: 4/22/22 BY: KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
PROPOSED GRID TIES**

**LINES "10" & "10A"  
FAWN LANE & WHITE TAIL COURT  
PLAN SHEET**

STA. 0+00 TO STA. 12+50 & STA. 0+00 TO STA. 4+50

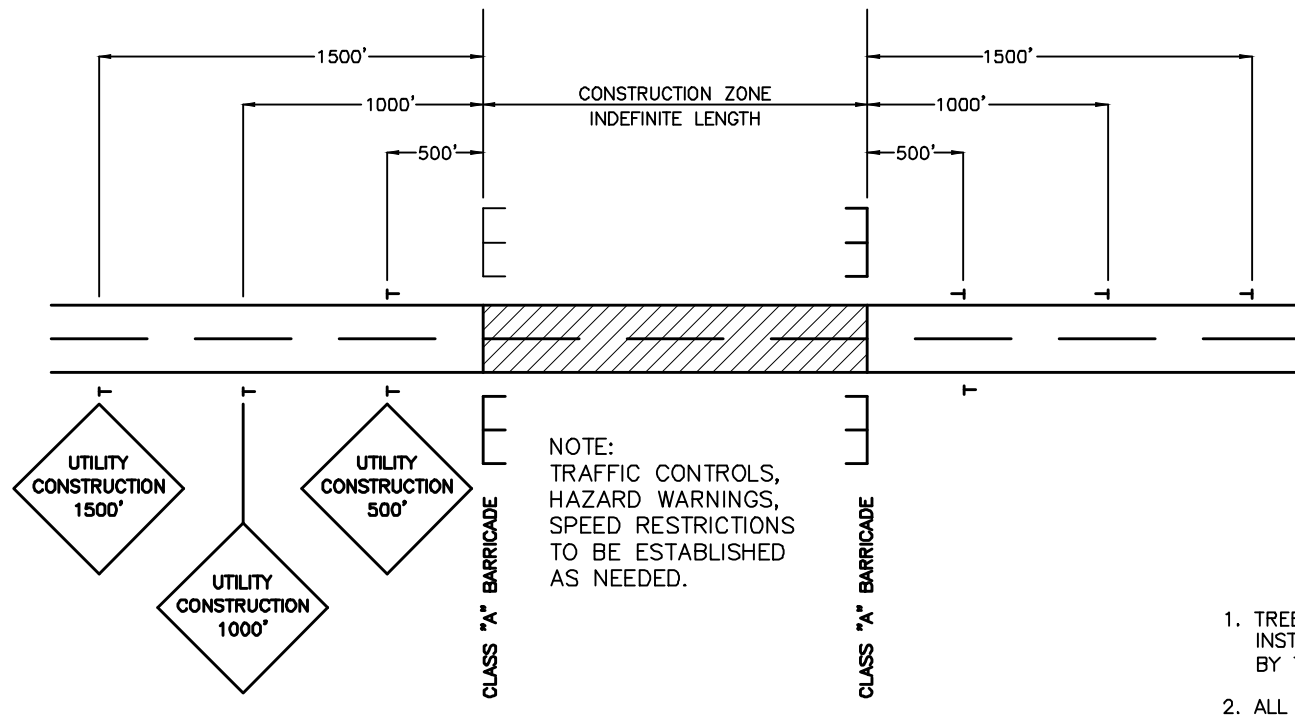
0 60' 120'

SCALE: 1" = 60'

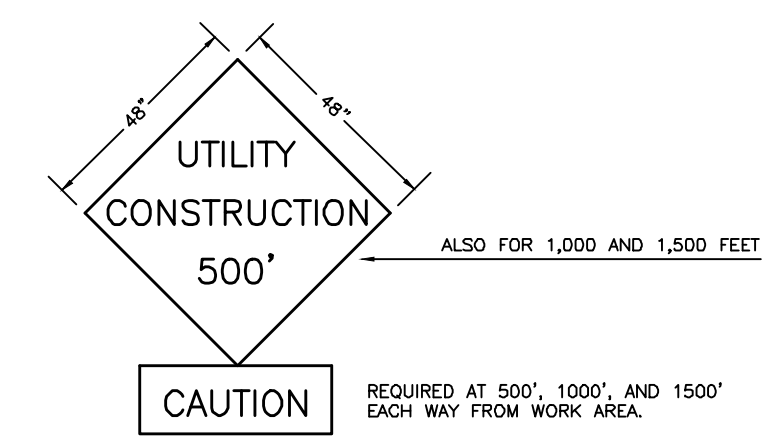
FILENAME: Plan-10\_asbuilts.dwg

SHEET: **C-53**



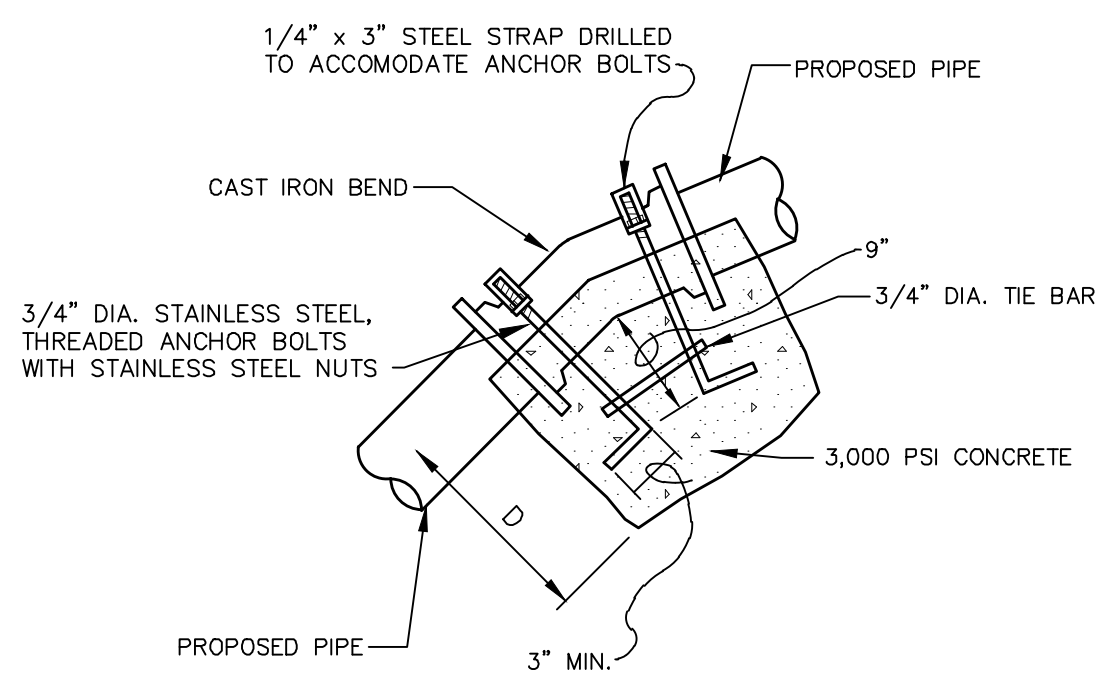


**LOCATION OF TRAFFIC CONTROL DEVICES**  
N.T.S.

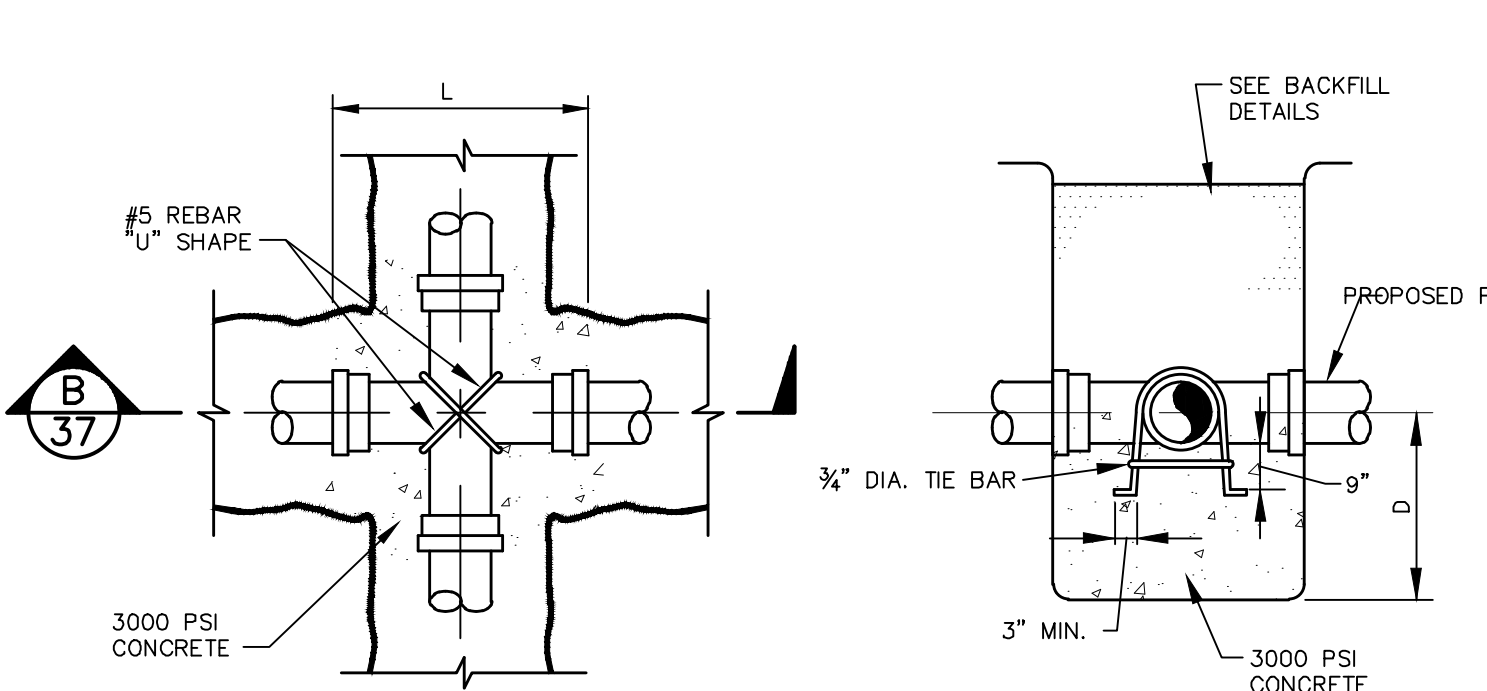


**WARNING SIGNS**

- TREES ON STATE RIGHT-OF-WAY ARE NOT TO BE DAMAGED BY THIS INSTALLATION, NO TREE TRIMMING OR REMOVAL IS AUTHORIZED BY THIS PERMIT.
- ALL DISTURBED PORTIONS OF THE STATE RIGHT-OF-WAY TO BE RESTORED TO ORIGINAL CONDITION BY SEEDING AND MULCHING IN ACCORDANCE WITH KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS.
- ALL SIGNS AND CONTROL OF TRAFFIC TO BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



**VERTICAL BENDS BLOCKING**  
N.T.S.



**CROSS ANCHORING**  
N.T.S.

PLUGS						
SIZE	3"	4"	6"	8"	10"	12"
D	8"	10"	13"	18"	21"	25"
L & W	15"	19"	26"	35"	42"	50"

TEES						
SIZE	3"	4"	6"	8"	10"	12"
D	5"	5"	7"	11"	13"	16"
L	20"	22"	30"	40"	48"	56"
H	9"	12"	18"	24"	28"	34"
C (Max.)	11"	13"	16"	18"	22"	24"

90-Ells (Quarter Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	8"	9"	14"	20"	24"	28"
L	27"	31"	44"	58"	70"	80"
H	12"	16"	22"	29"	36"	45"
C (Max.)	11"	13"	16"	18"	22"	24"

45-Ells (Eighth Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	6"	7"	10"	15"	18"	21"
L	18"	21"	30"	40"	48"	56"
H	10"	12"	18"	24"	28"	34"
C (Max.)	6"	8"	10"	11"	13"	15"

22 1/2-Ells (Sixteenth Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	5"	6"	7"	9"	11"	14"
L	15"	19"	24"	29"	35"	42"
H	6"	7"	11"	16"	20"	24"
C (Max.)	6"	8"	10"	11"	13"	15"

11 1/4-Ells (Thirty-Second Bends)						
SIZE	3"	4"	6"	8"	10"	12"
D	3"	4"	5"	7"	9"	10"
L	12"	16"	20"	24"	30"	34"
H	6"	6"	7"	10"	12"	15"
C (Max.)	6"	8"	10"	11"	13"	15"

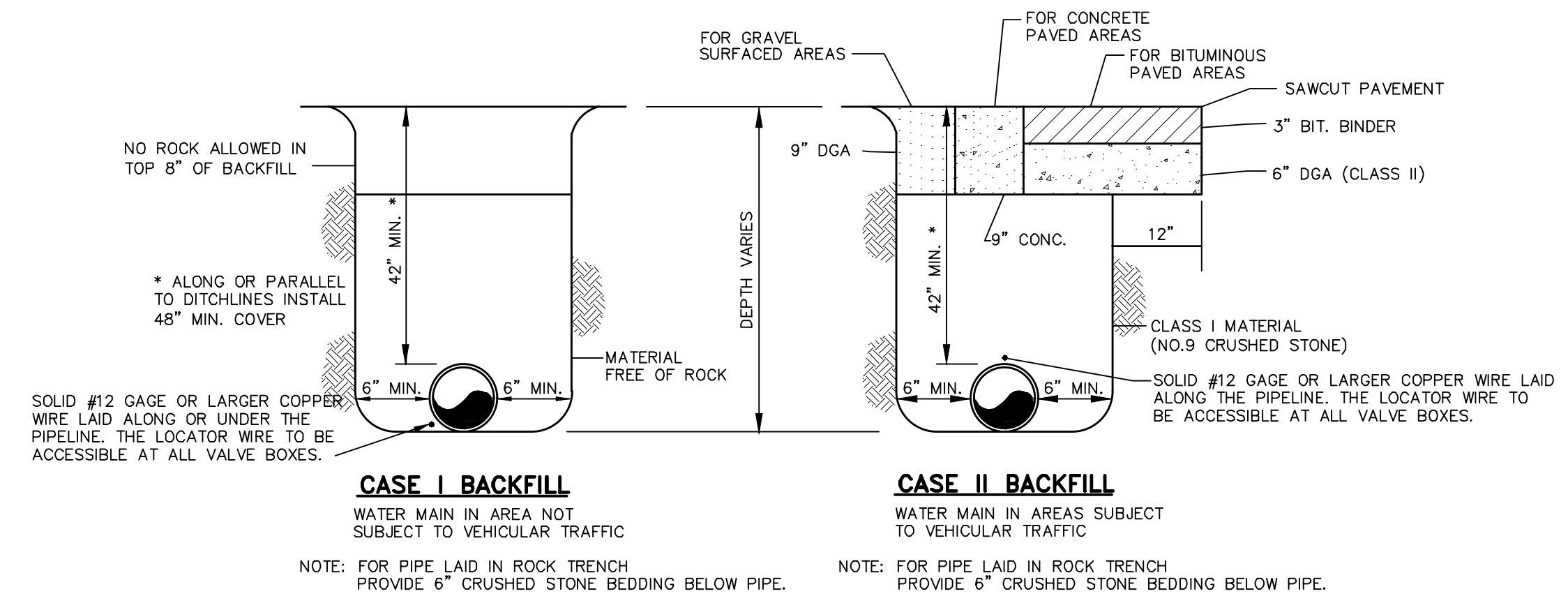
  

Crosses						
SIZE	3"	4"	6"	8"	10"	12"
D	18"	18"	18"	18"	22"	22"
L	18"	20"	23"	25"	29"	31"

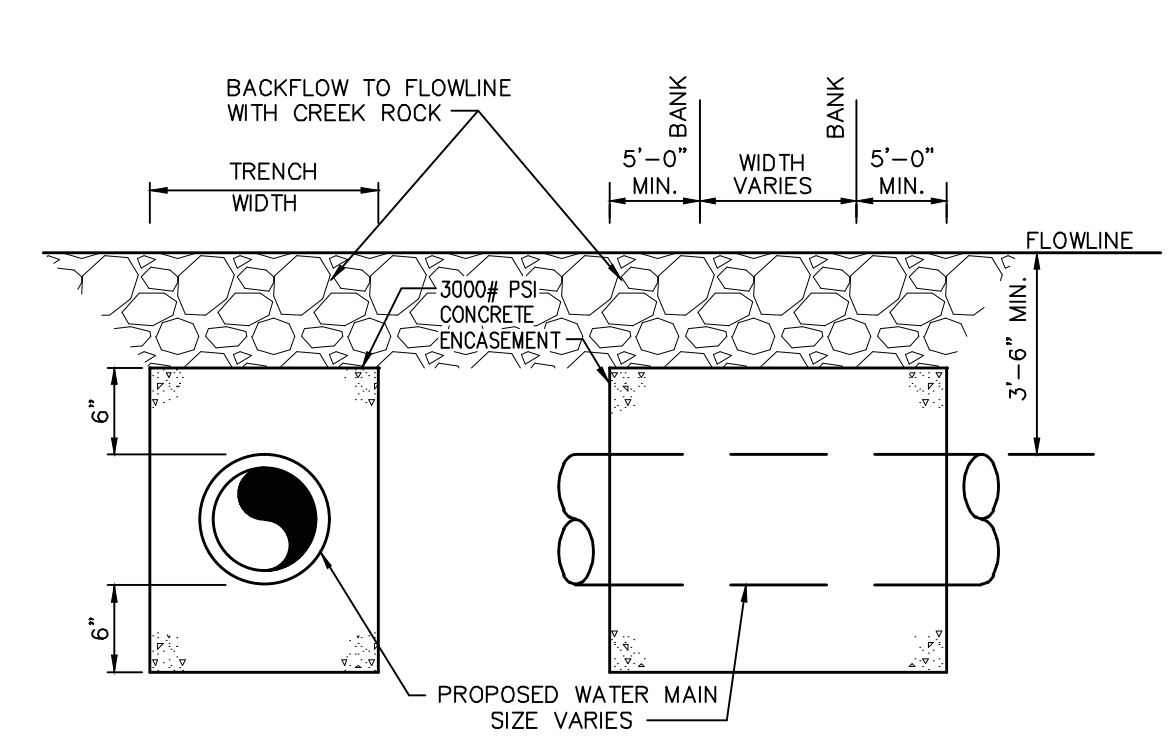
  

Vertical Bends (45-Ell or less)						
SIZE	3"	4"	6"	8"	10"	12"
D	18"	27"	33"	36"	42"	58"
Volume (Cu. Ft.)	16	23	48	82	124	175

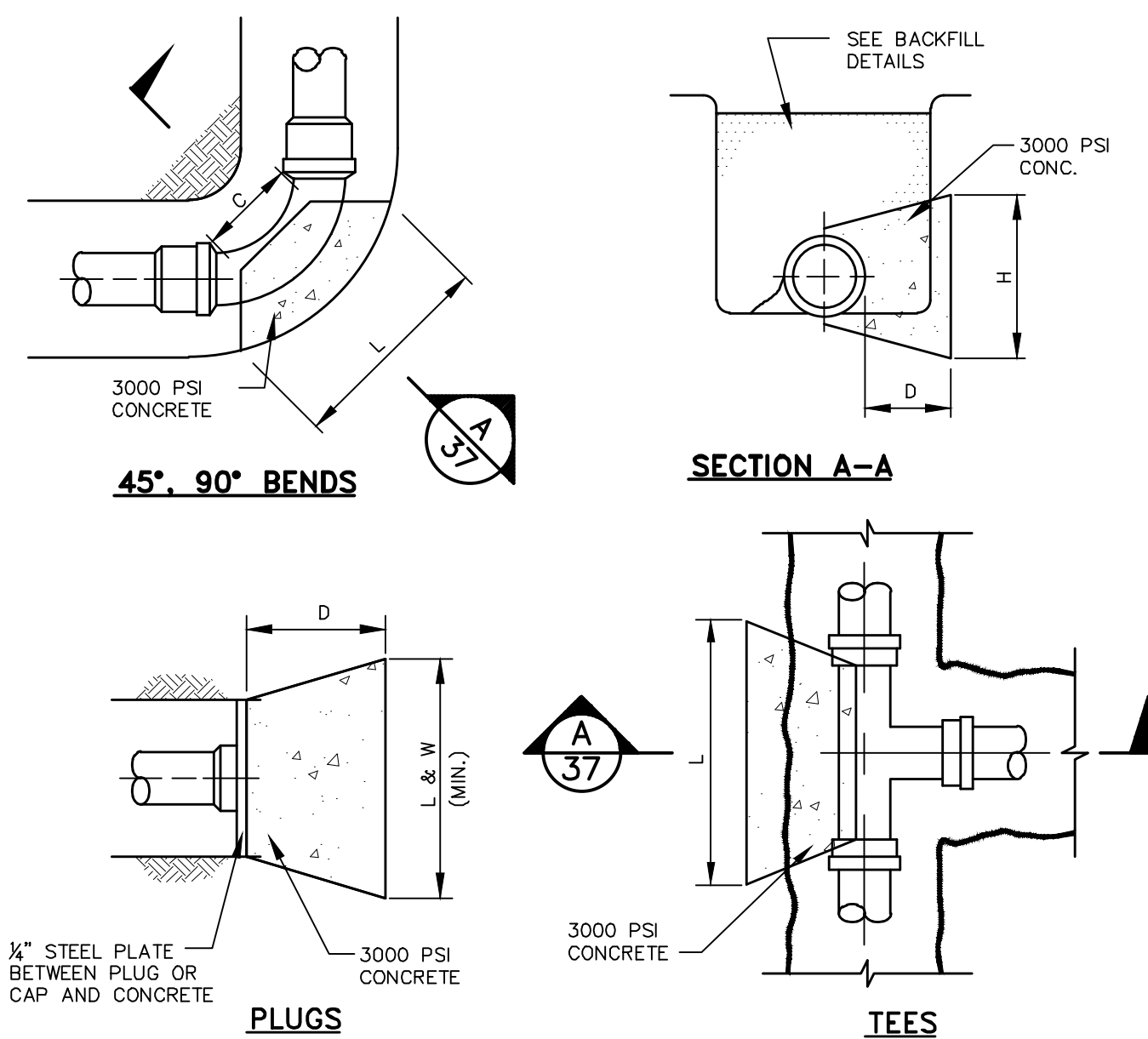
- NOTES:**
- TABLES ARE BASED ON A SOIL BEARING CAPACITY OF 2000 POUNDS/SQUARE FOOT (PSF)
  - IF SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, OR PIPE IS LAID IN FILL, CONSULT ENGINEER.
  - ALL FIGURES ARE MINIMUM UNLESS OTHERWISE STATED.
  - BLOCKS MUST BE PLACED AGAINST UNDISTURBED EARTH.



**WATER MAIN TRENCHING & BACKFILLING DETAILS**  
N.T.S.



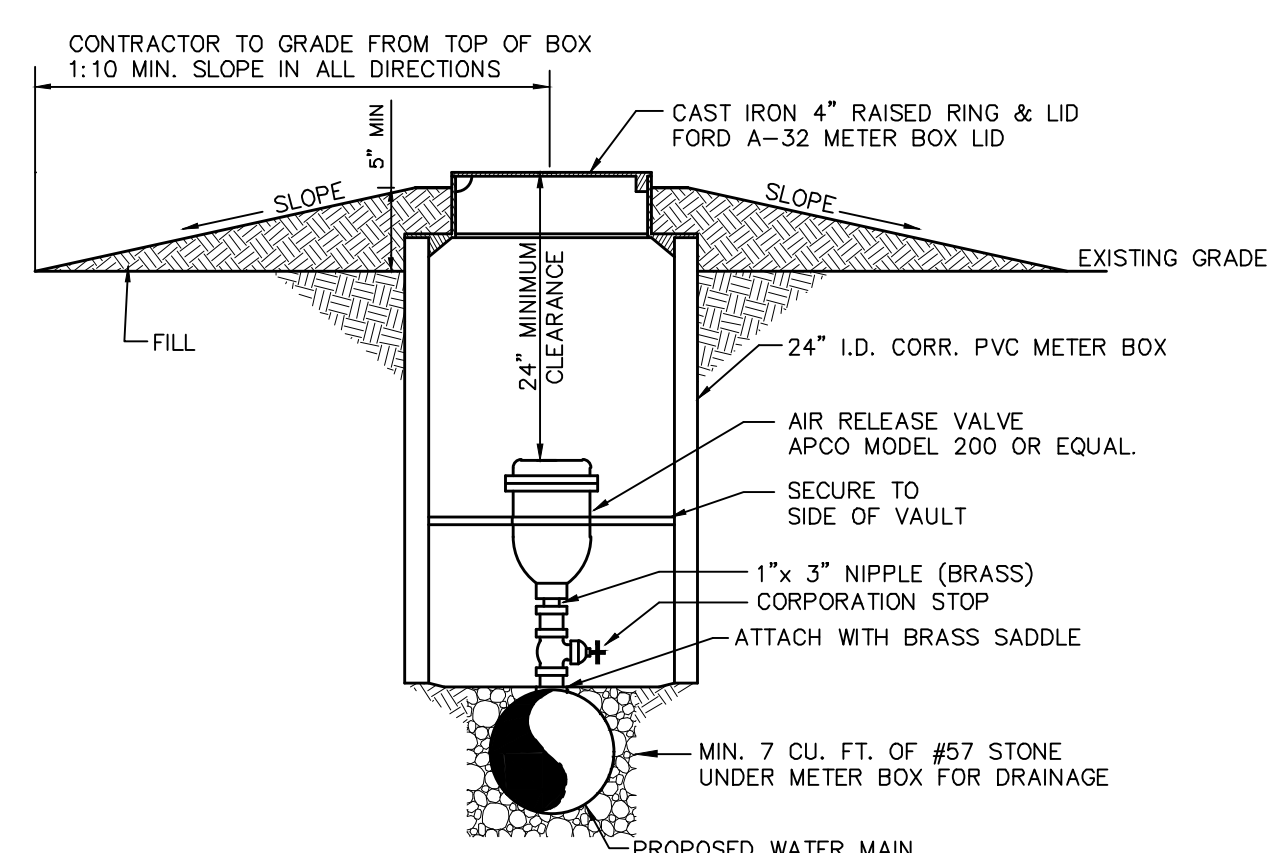
**CREEK CROSSING DETAIL**  
N.T.S.



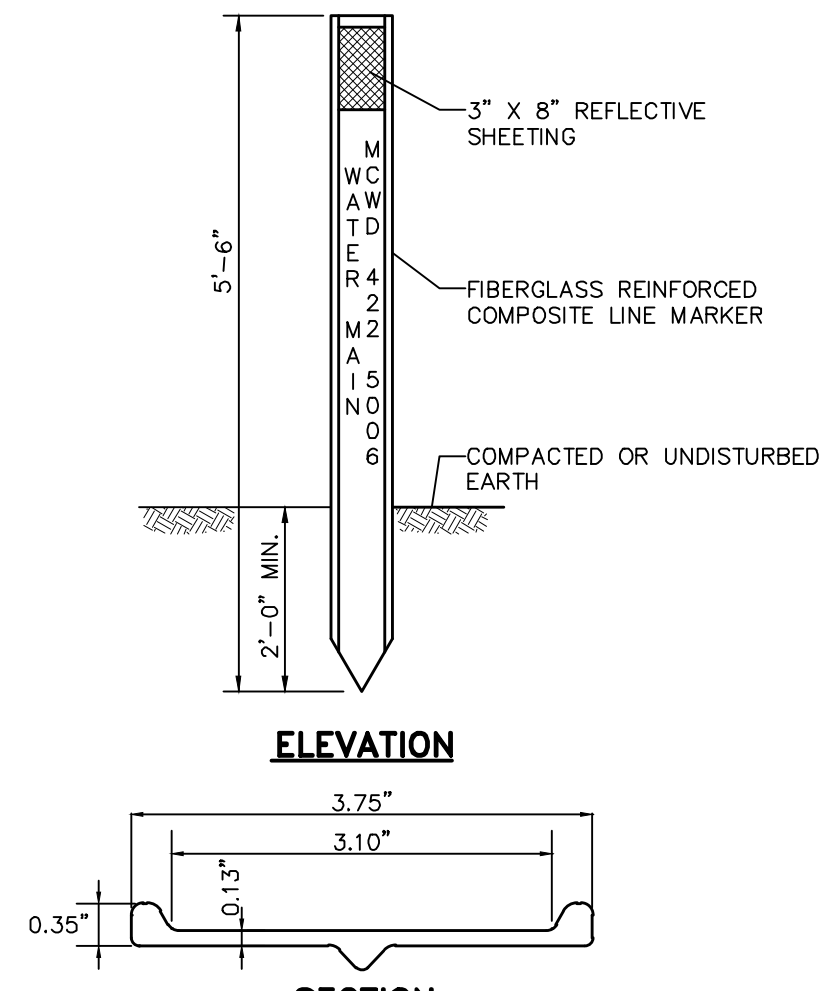
**CONCRETE THRUST BLOCKS**  
N.T.S.

**THRUST BLOCK SCHEDULE**

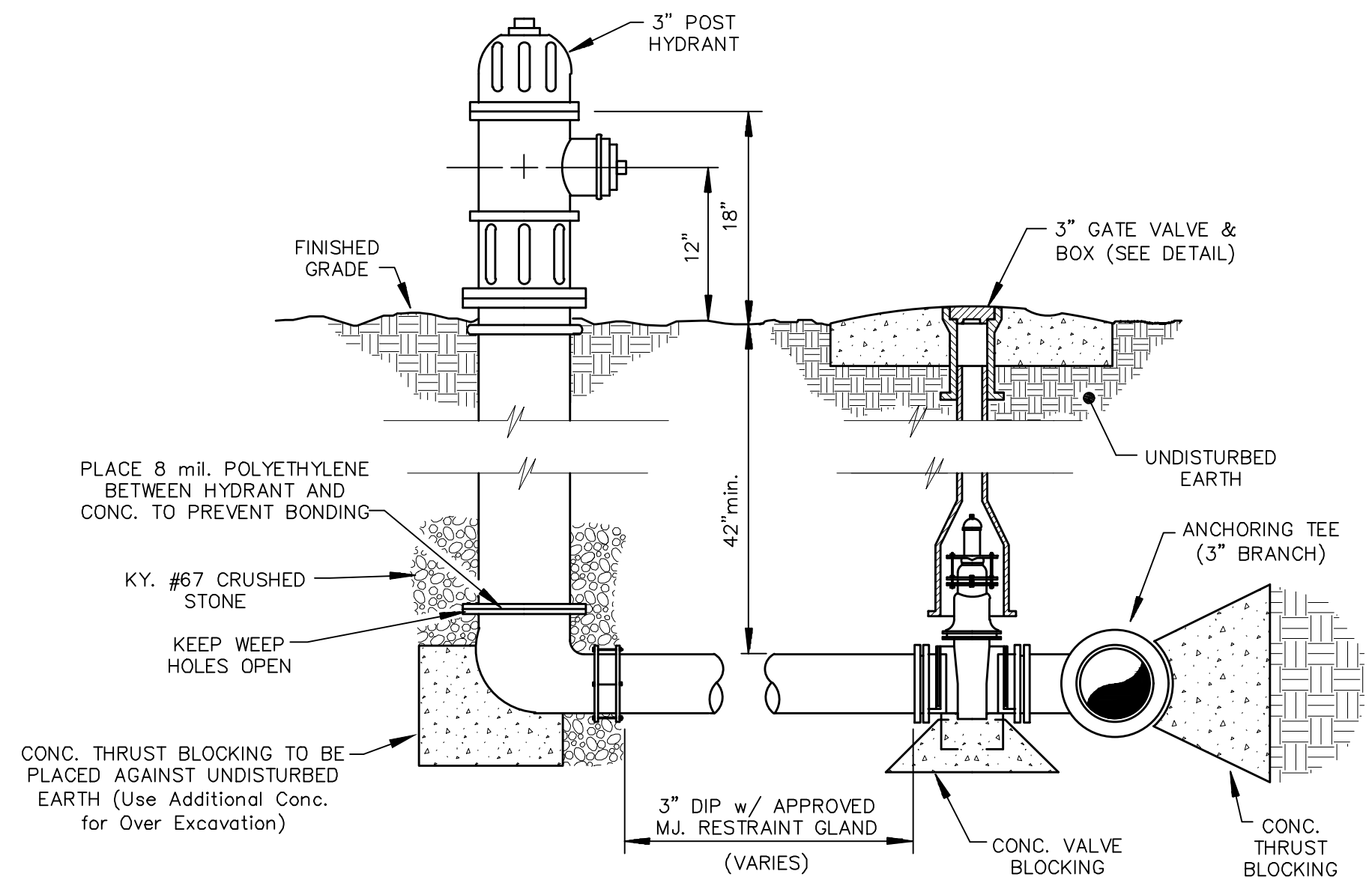
(FOR PRESSURE CLASS 250 PIPE)  
SDR 17, DR 14



**AIR RELEASE VALVE AND BOX**  
N.T.S.

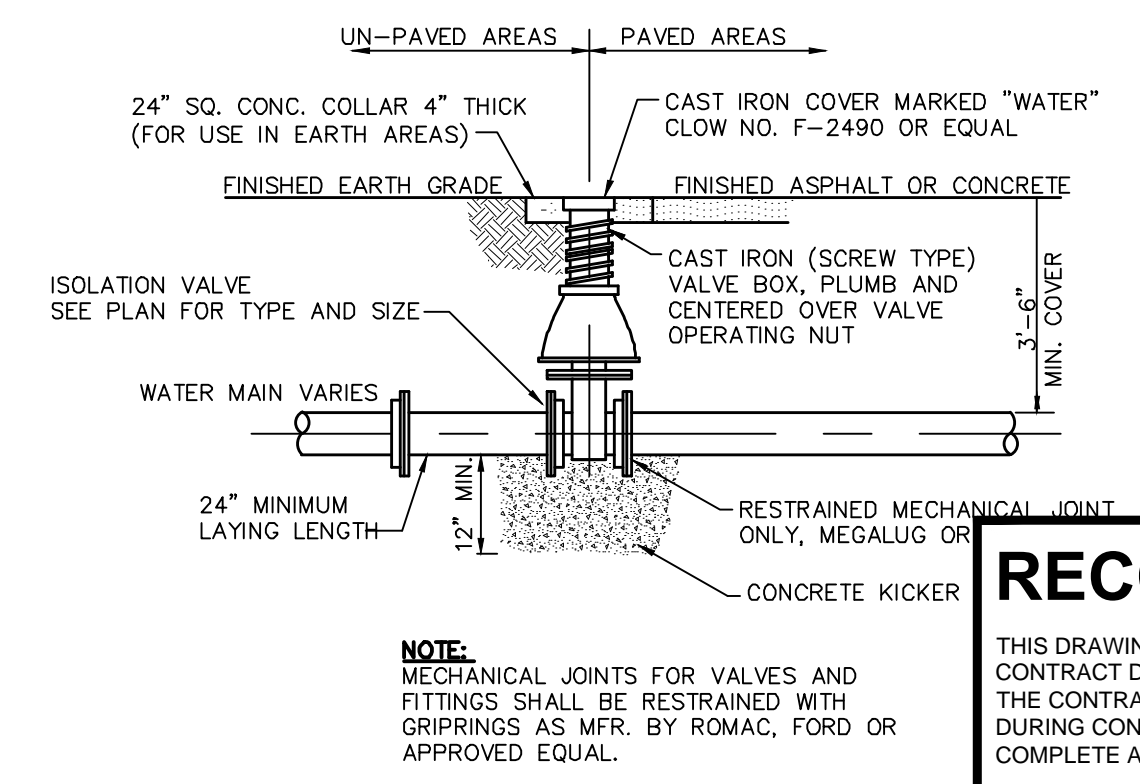


**FIBERGLASS LINE MARKER**  
N.T.S.



**FLUSHING HYDRANT ASSEMBLY**  
N.T.S.

- NOTE:**  
THE UNIT PRICE ASSOCIATED WITH THE BID ITEM "FLUSH HYDRANT ASSEMBLY" SHALL INCLUDE THE POST HYDRANT, 3\"/>



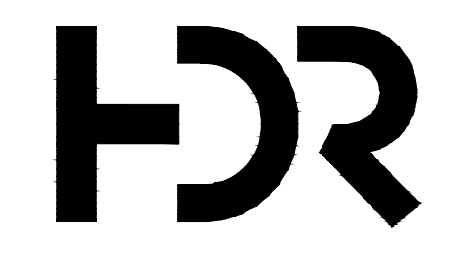
**GATE VALVE INSTALLATION**  
N.T.S.

**NOTE:**  
MECHANICAL JOINTS FOR VALVES AND FITTINGS SHALL BE RESTRAINED WITH GRIPRINGS AS MFR. BY ROMAC, FORD OR APPROVED EQUAL.

**RECORD DRAWING**

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HDR ENGINEERING, INC.  
DATE: 4/22/22 BY: KEVIN J. BRIAN  
CONTRACTOR: DIRT WORKS UNLIMITED, LLC



PROJECT MANAGER	KEVIN J. BRIAN
DESIGNED BY	KEVIN J. BRIAN
DRAWN BY	WILLIAM M. GUMM
QA / QC	MIKE HANSEN
PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
MEADE COUNTY, KENTUCKY**

**CIVIL STANDARD DETAILS**



FILENAME: C-54.dwg  
SCALE: NONE

SHEET  
**C-54**

# GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 AND THE KENTUCKY DEPARTMENT OF HIGHWAY STANDARD DRAWINGS, OR AS APPROVED BY THE KENTUCKY DEPARTMENT OF HIGHWAYS DISTRICT 4.
2. BUSINESSES SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO CLOSING THEIR DRIVEWAYS/ROADWAYS.
3. THE ENGINEER MAY REQUIRE THE USE OF ADDITIONAL SIGNAGE AND/OR BARRICADES OR ADJUSTMENT OF SIGNAGE SPACING TO BETTER FIT THE EXISTING PHYSICAL CONDITIONS OR TRAFFIC PATTERNS.
4. SIGNAGE SHALL BE EITHER COVERED OR MOVED BEHIND THE DITCH LINE AND MADE INACCESSIBLE TO THE VIEW OF TRAFFIC AT ANY TIME THE LANE IS NOT PHYSICALLY CLOSED OR WHERE THERE ARE NO CONSTRUCTION HAZARDS.
5. ALL SIGNAGE USED SHALL BE RETROREFLECTIVE.
6. FOR THIS PROJECT, COST INVOLVED WITH MINOR ADJUSTMENTS AND/OR ADDITIONS TO TRAFFIC CONTROL REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT, AND SHALL NOT BE REGARDED AS AN EXTRA PAY ITEM. IN THE EVENT OF A CHANGE IN SCOPE OF WORK, COST FOR ADJUSTMENTS AND/OR ADDITIONS TO TRAFFIC CONTROL REQUIREMENTS SHALL BE NEGOTIATED.

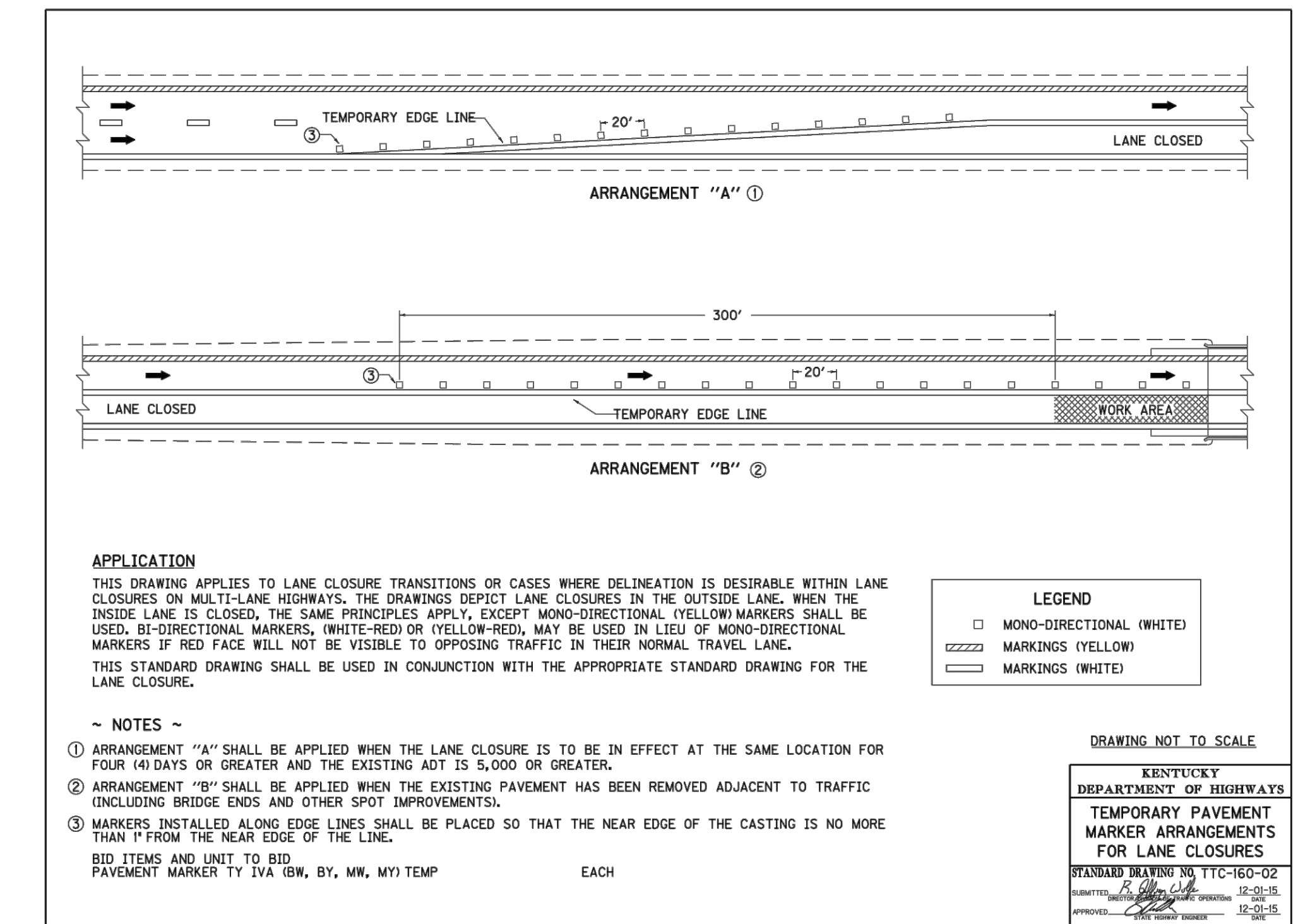
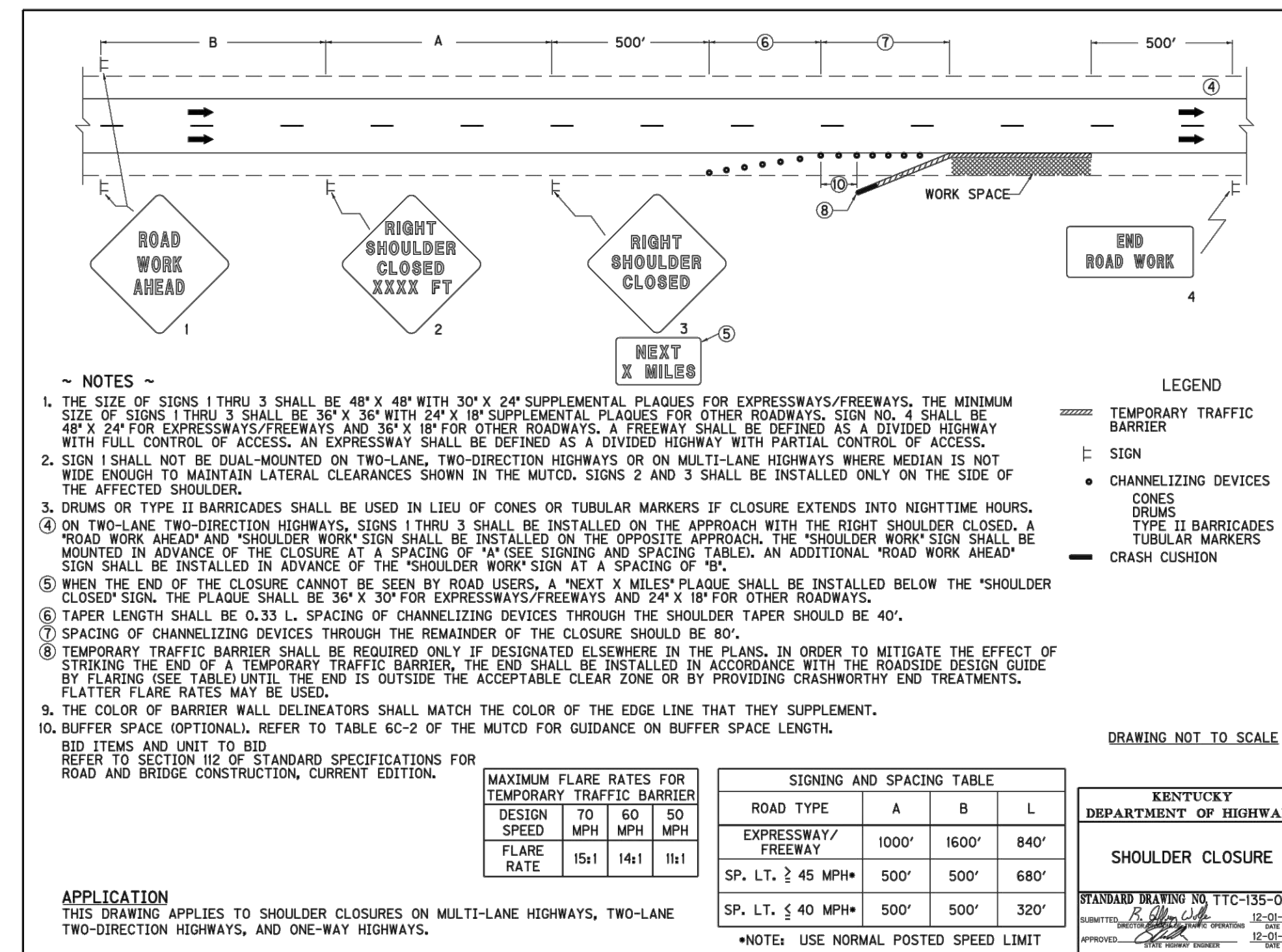
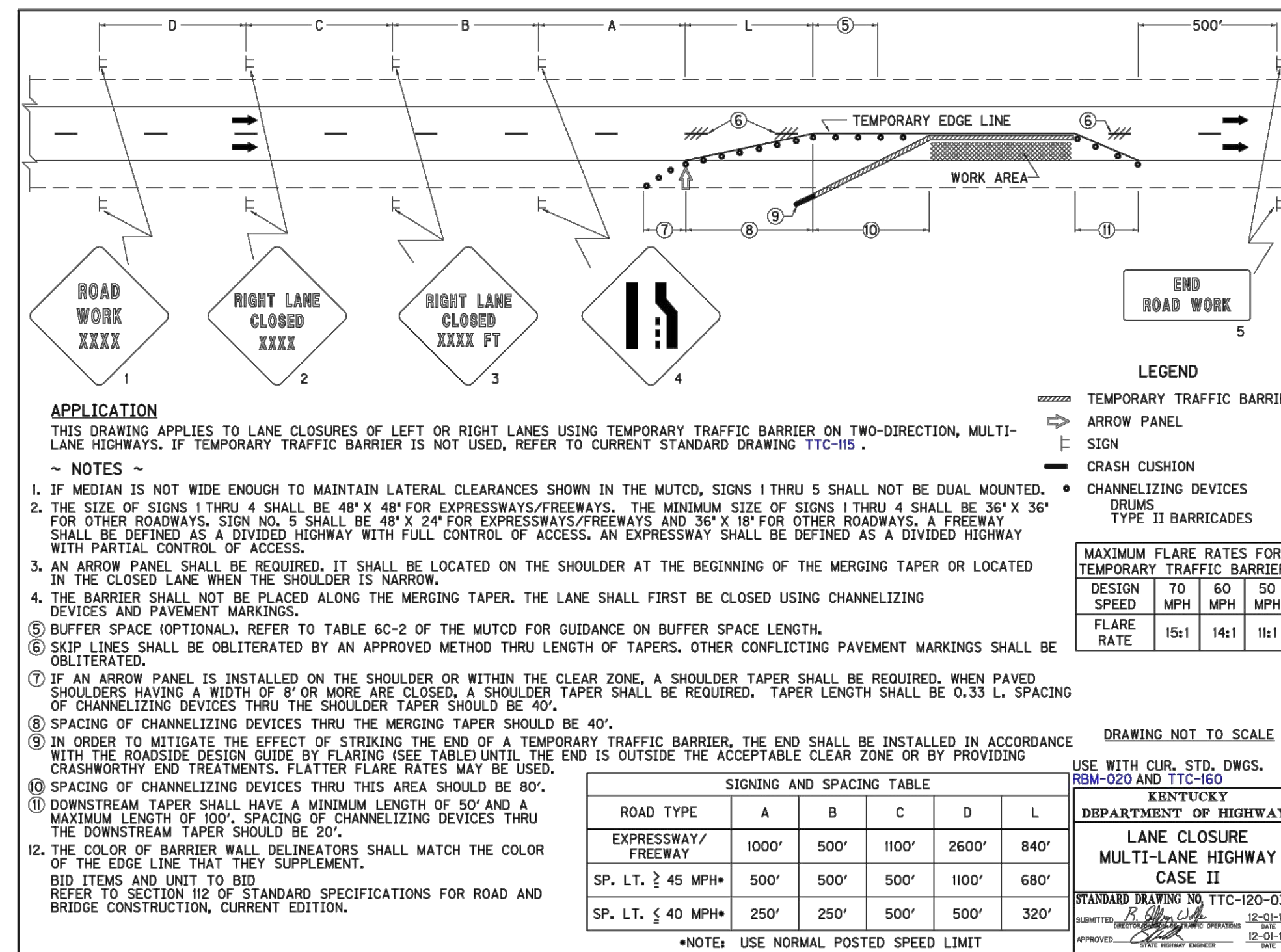
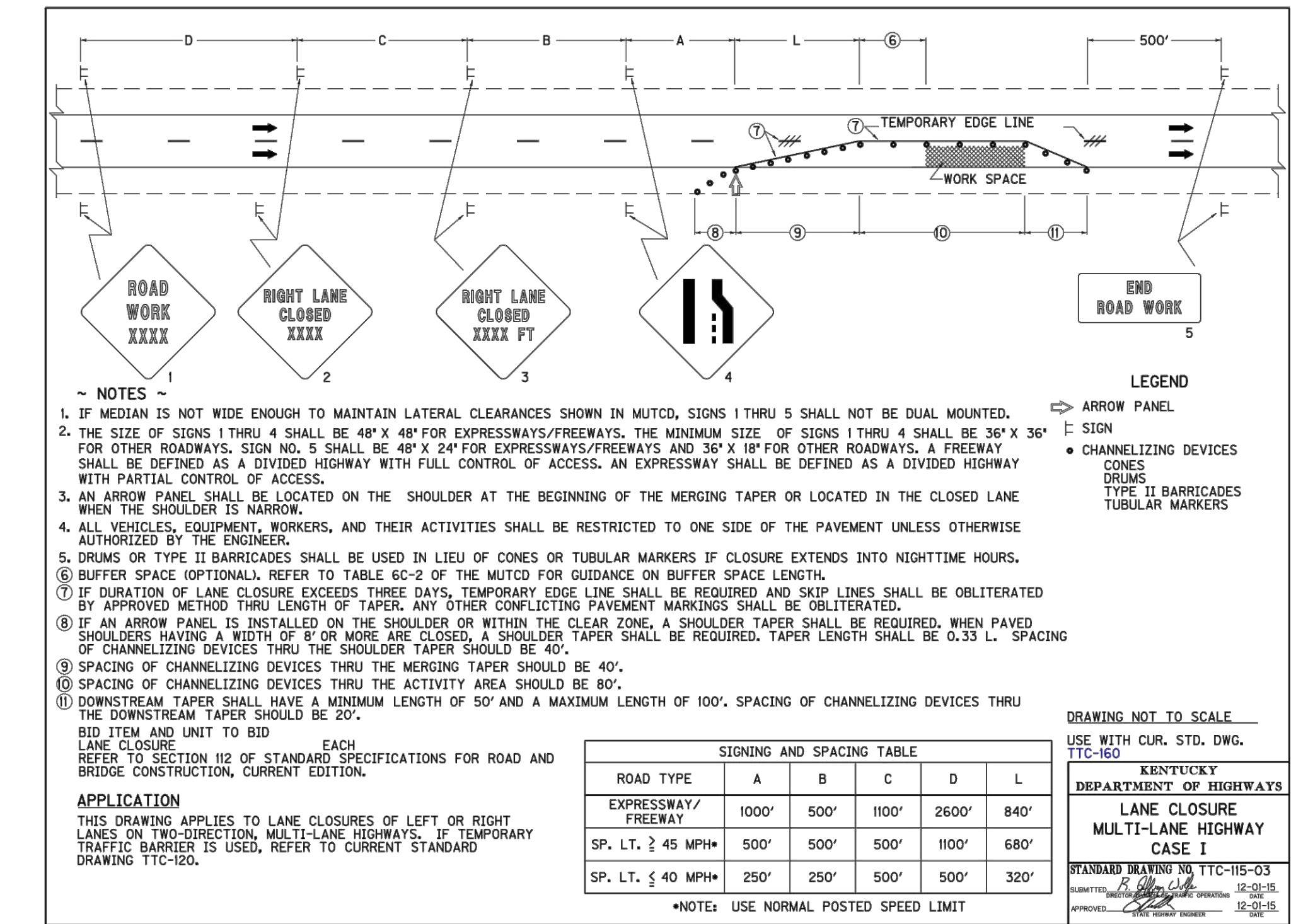
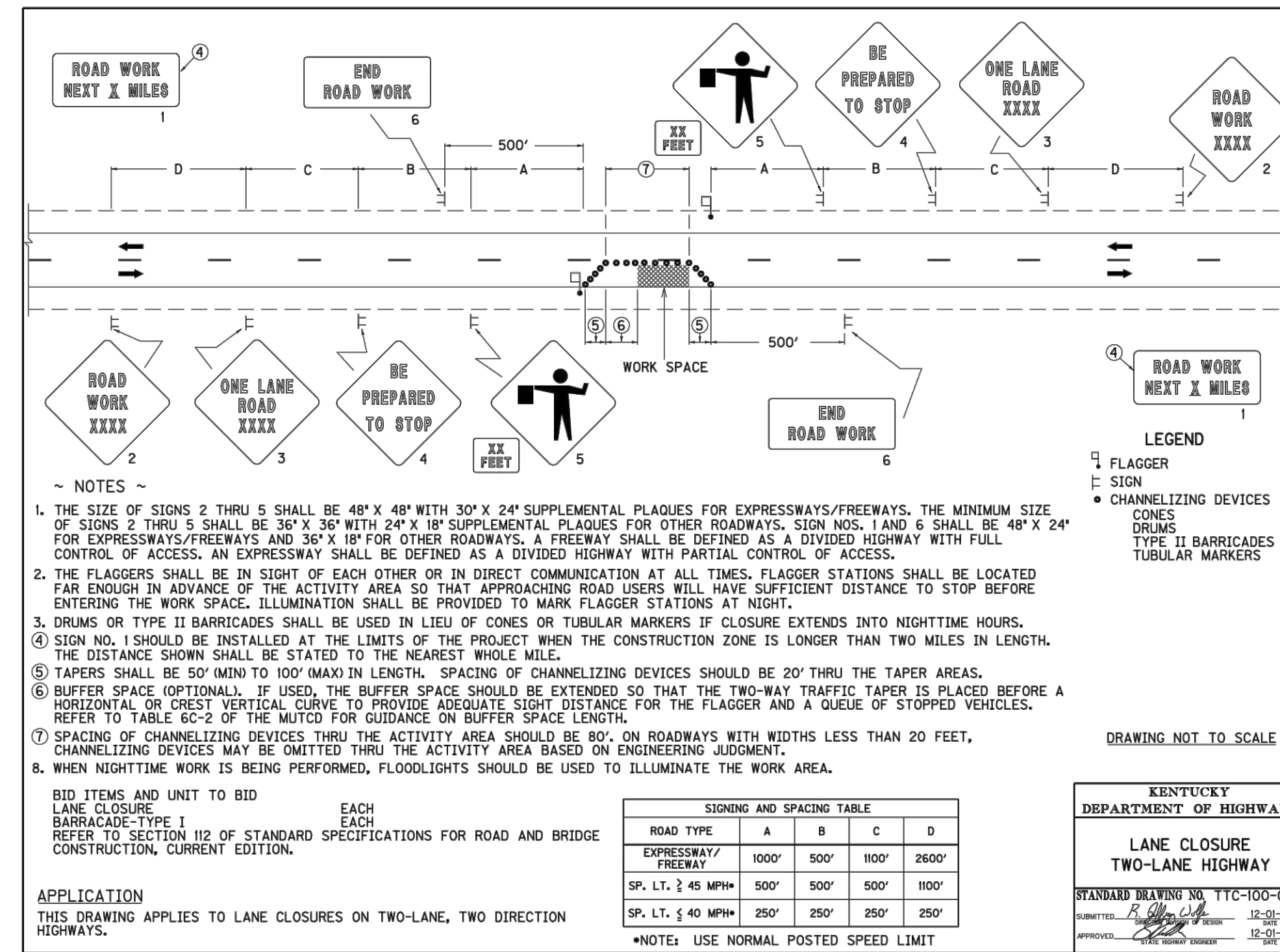
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HDR ENGINEERING, INC.

DATE 4/22/22 BY KEVIN J. BRIAN

CONTRACTOR: DIRT WORKS UNLIMITED, LLC

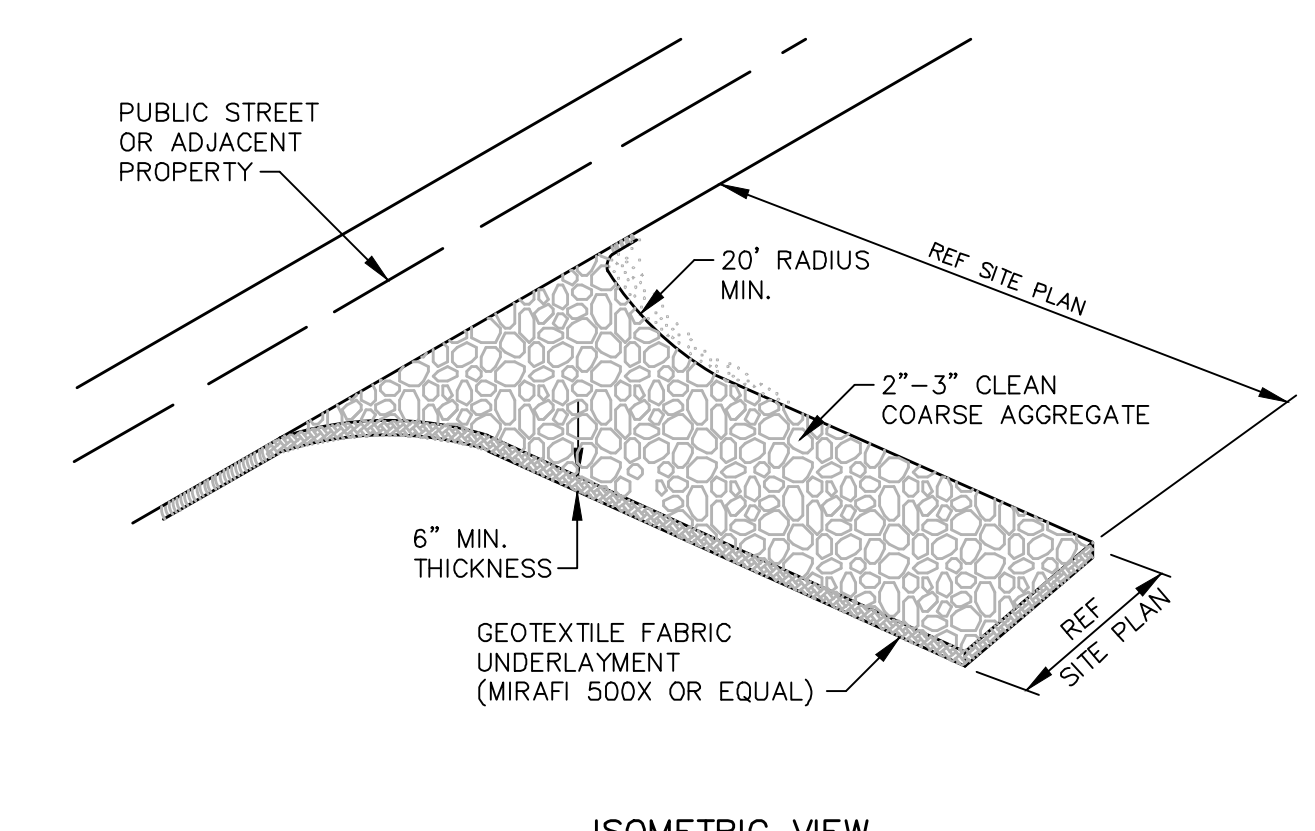


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DRAWN BY	WILLIAM M. GUMM
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PROJECT NUMBER	10175028

## MEADE COUNTY WATER DISTRICT 2019 WATER SYSTEM IMPROVEMENTS MEADE COUNTY, KENTUCKY

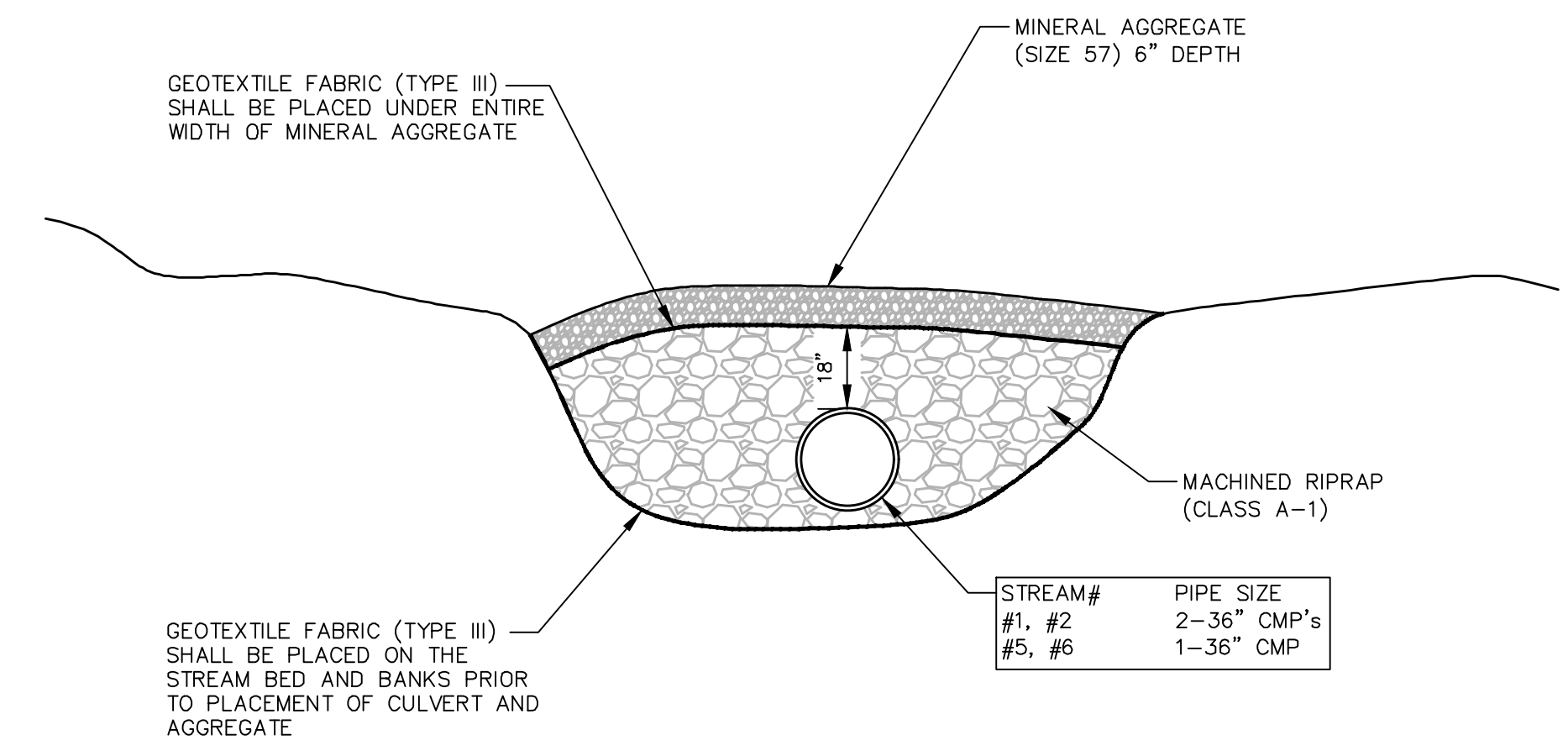
### CIVIL MAINTENANCE OF TRAFFIC DETAILS





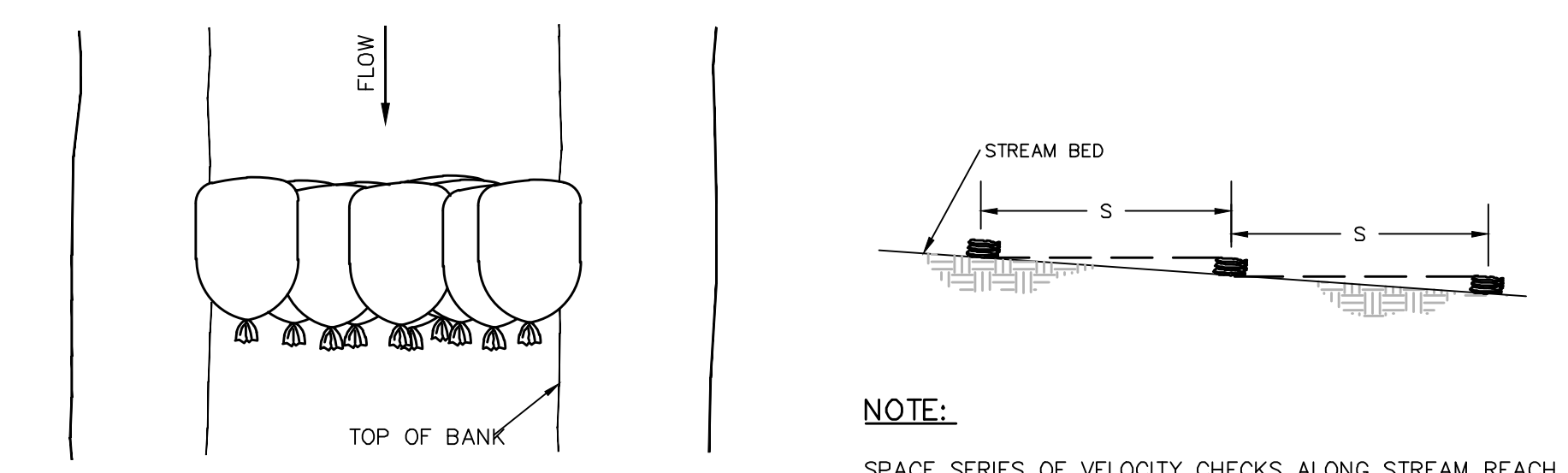
- NOTES:**
- ADDITIONAL STONE MAY BE REQUIRED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF EXIT.
  - REMOVE STONE AFTER CONSTRUCTION IS COMPLETE.

① **TEMPORARY CONSTRUCTION SITE ENTRANCE / EXIT**  
NOT TO SCALE



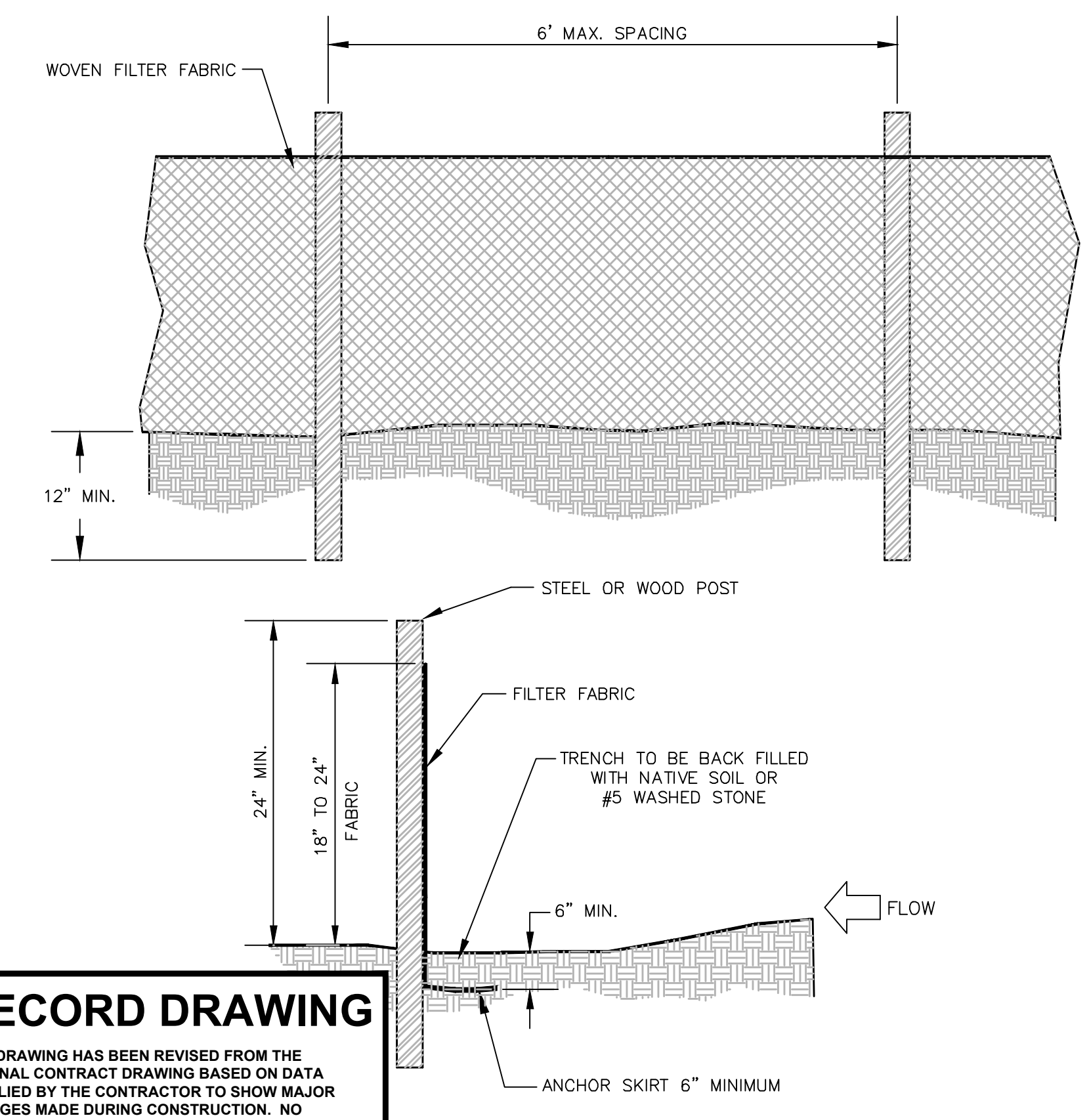
STREAM#	PIPE SIZE
#1, #2	2-36" CMP's
#5, #6	1-36" CMP

② **TEMPORARY STREAM CROSSING**  
NOT TO SCALE



**NOTE:**  
SPACE SERIES OF VELOCITY CHECKS ALONG STREAM REACH. USE SPACING "S" SUCH THAT THE CRESTS OF DOWNSTREAM CHECKS ARE THE SAME ELEVATION AS THE TOE OF UPSTREAM CHECKS.

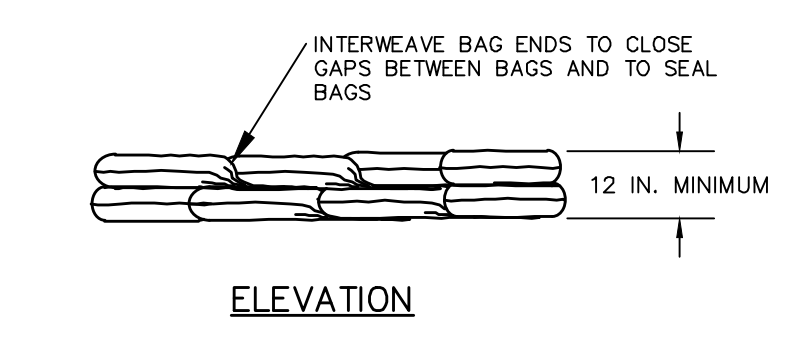
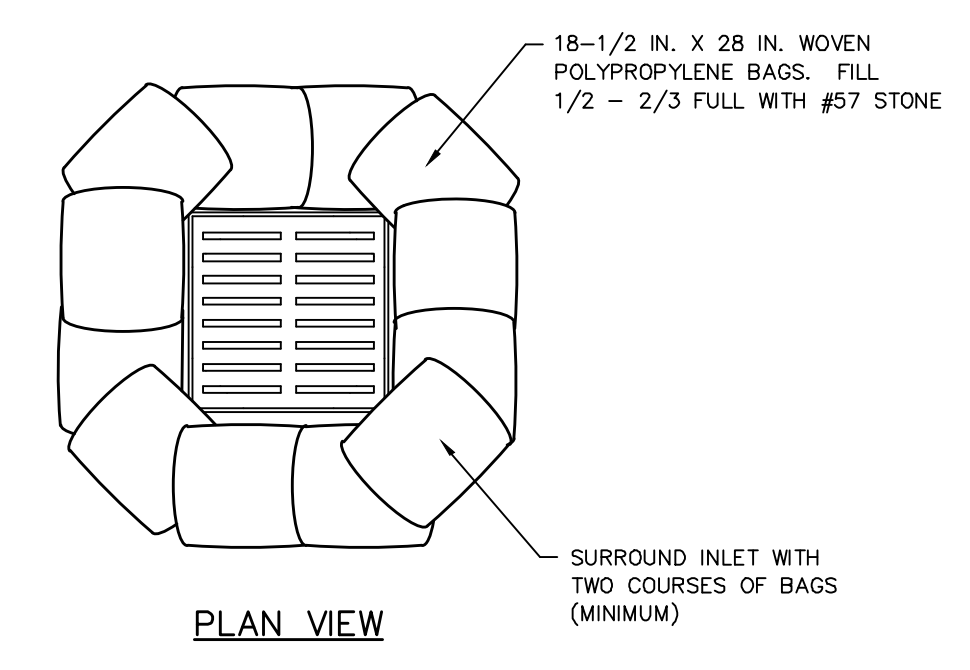
③ **STONE BAG CHECK DAM IN SMALL DITCH**  
NOT TO SCALE



- SILT FENCE NOTES:**
- THE FENCE SHOULD BE PLACED ACROSS THE SLOPE ALONG A LINE OF UNIFORM ELEVATION (PERPENDICULAR TO THE DIRECTION OF FLOW). THE FENCE SHOULD BE LOCATED AT LEAST 10-FEET FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT. THE ENDS SHOULD BE TURNED UP SLOPE TO CREATE TIE-BACKS FOR PONDING WATER.
  - A FLAT-BOTTOM TRENCH APPROXIMATELY 6-INCHES WIDE AND 6-INCHES DEEP, OR A V-SHAPED TRENCH 8-INCHES DEEP SHOULD BE EXCAVATED. ON THE DOWNSLOPE SIDE OF THE TRENCH, DRIVE THE 2-INCH X 2-INCH WOOD POSTS AT LEAST 12-INCHES INTO THE GROUND, SPACING THEM NO FURTHER THAN 6-FEET APART. STEEL POSTS SHALL BE 1.33 LBS PER LINEAR FOOT.
  - POSTS SHOULD BE INSTALLED, WITH 1- TO 2-INCHES OF THE POST PROTRUDING ABOVE THE TOP OF THE FABRIC AND NO MORE THAN 3- FEET OF THE POST SHOULD PROTRUDE ABOVE THE GROUND. THE MINIMUM FENCE HEIGHT (HEIGHT OF FILTER FABRIC ABOVE GRADE) SHALL BE 18-INCHES. THE MAXIMUM FENCE HEIGHT (HEIGHT OF FILTER FABRIC ABOVE GRADE) SHALL BE 24-INCHES.
  - THE FILTER FABRIC SHOULD BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHOULD BE WRAPPED TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST, WITH A MINIMUM 6-INCH OVERLAP.
  - EXTRA-STRENGTH FILTER CLOTH (50 POUNDS/LINEAR INCH MINIMUM TENSILE STRENGTH) SHOULD BE USED. A 2-INCH WIDE LATHE SHALL BE STAPLED OVER THE FILTER FABRIC TO SECURELY FASTEN IT TO THE UPSLOPE SIDE OF THE POSTS. THE STAPLES USED SHOULD BE 1.5-INCH HEAVY-DUTY WIRE STAPLES SPACED A MAXIMUM OF 8-INCHES APART.
  - PLACE THE BOTTOM 12-INCHES OF THE FILTER FABRIC INTO THE 6-INCH DEEP TRENCH, EXTENDING THE REMAINING 6-INCHES TOWARDS THE UPSLOPE SIDE OF THE TRENCH AND BACKFILL THE TRENCH WITH SOIL OR GRAVEL AND COMPACT.
  - REINFORCED SILT FENCE SHALL USE STEEL POSTS AND 6-INCH BY 6-INCH 14 GAUGE WIRE MESH. THE WIRE MESH SHALL BE FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES, OR HOG RINGS. EXTEND THE MESH 6-INCHES INTO THE TRENCH. THE FILTER FABRIC SHALL BE FASTENED TO THE FENCE ON THE UPSLOPE SIDE OF THE WIRE MESH.
  - SILT FENCE MOVED TO PROVIDE CONSTRUCTION ACCESS SHALL BE REINSTALLED BY THE END OF THE WORKDAY.
  - SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHOULD BE REMOVED OR STABILIZED ON SITE. DISTURBED AREAS RESULTING FROM FENCE REMOVAL SHALL BE PERMANENTLY STABILIZED PER FINAL RESTORATION REQUIREMENTS.

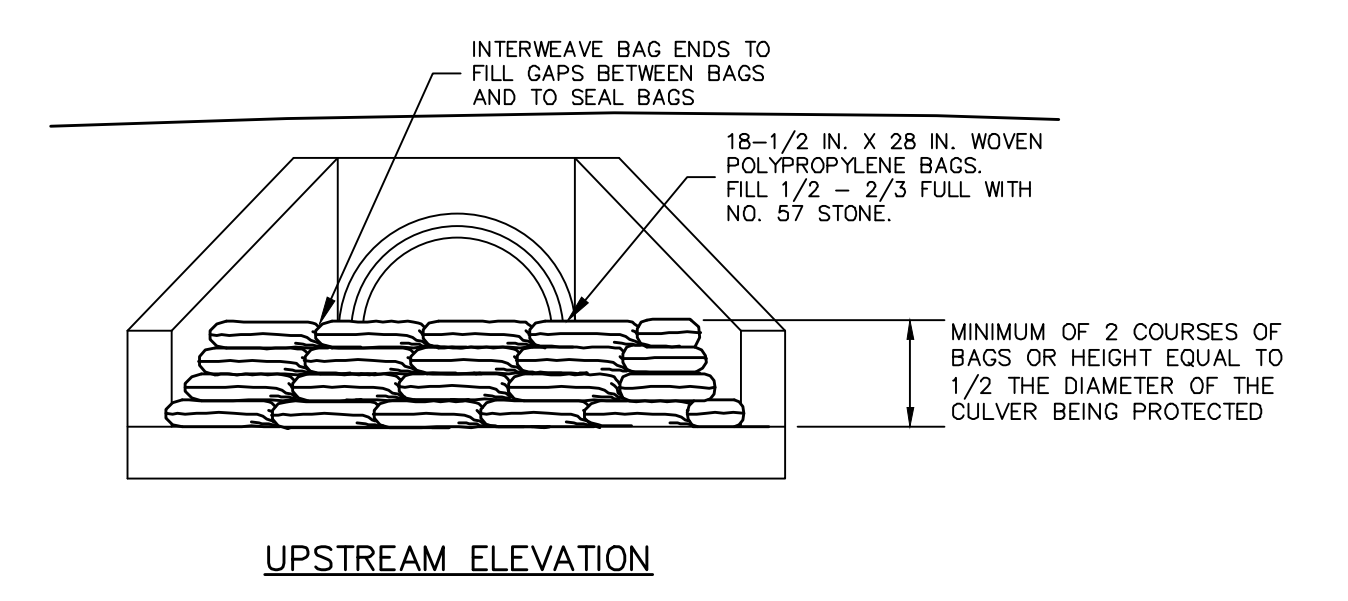
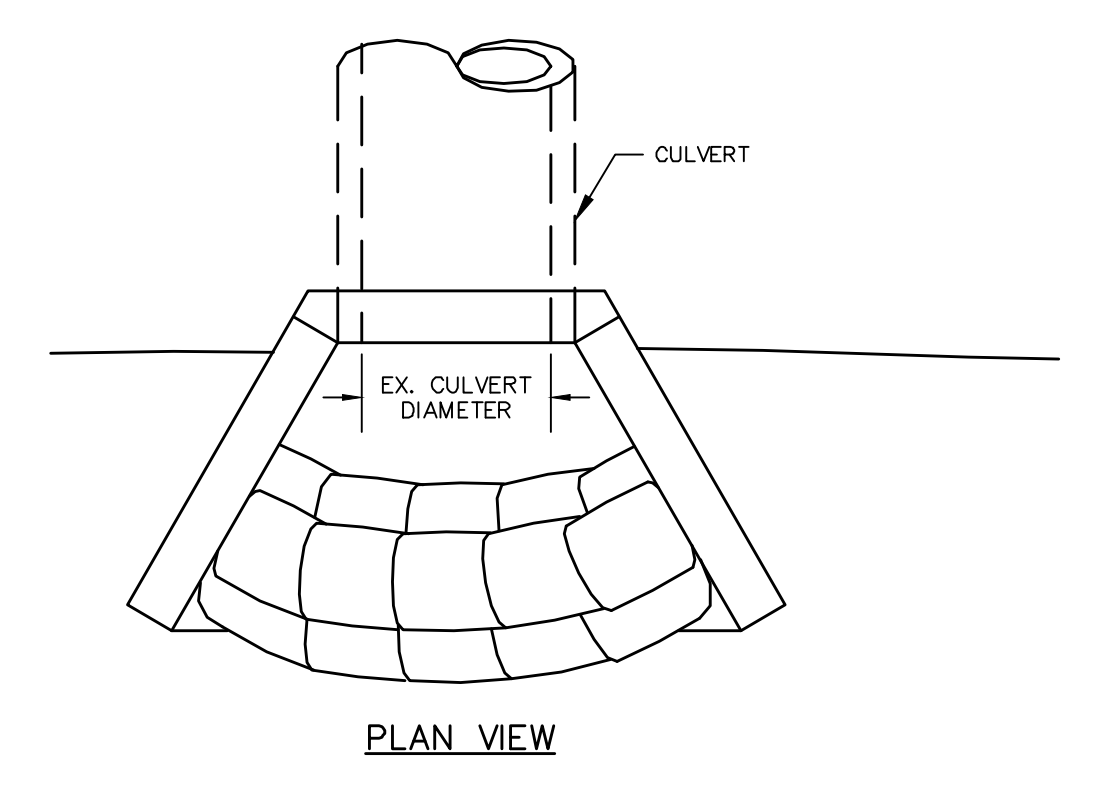
**SILT FENCE**  
NOT TO SCALE

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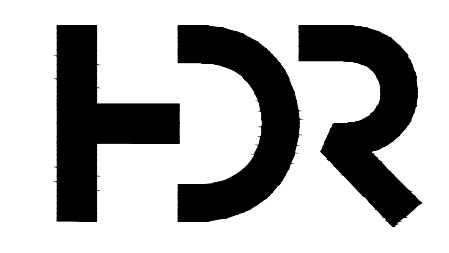


**NOTE:**  
THE 12-INCH HEIGHT REQUIREMENT IS WAIVED IN CASES WHERE IT WILL CAUSE FLOOD DAMAGE IF THE STONE BAGS ARE OVERTOPPED.

⑥ **STONE BAG INLET PROTECTION**  
NOT TO SCALE

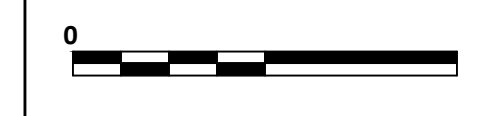


⑥ **WINGED HEADWALL INLET PROTECTION**  
NOT TO SCALE



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PROJECT NUMBER	10175028

**MEADE COUNTY WATER DISTRICT  
2019 WATER SYSTEM IMPROVEMENTS  
MEADE COUNTY, KENTUCKY**



**CIVIL  
EPSC DETAILS**

FILENAME C-57.dwg  
SCALE NONE

SHEET  
**C-57**