

2019 WATER SYSTEM IMPROVEMENTS

FOR THE NORTH MERCER WATER DISTRICT CONTRACT 2A

MAY 2021

BOARD MEMBERS

GERALD SHEPERSON, CHAIRMAN

ROY SHORT

TONY BEST

MISCHELL LEE, MANAGER

NORRIE CURRENS, ATTORNEY

PREPARED BY:

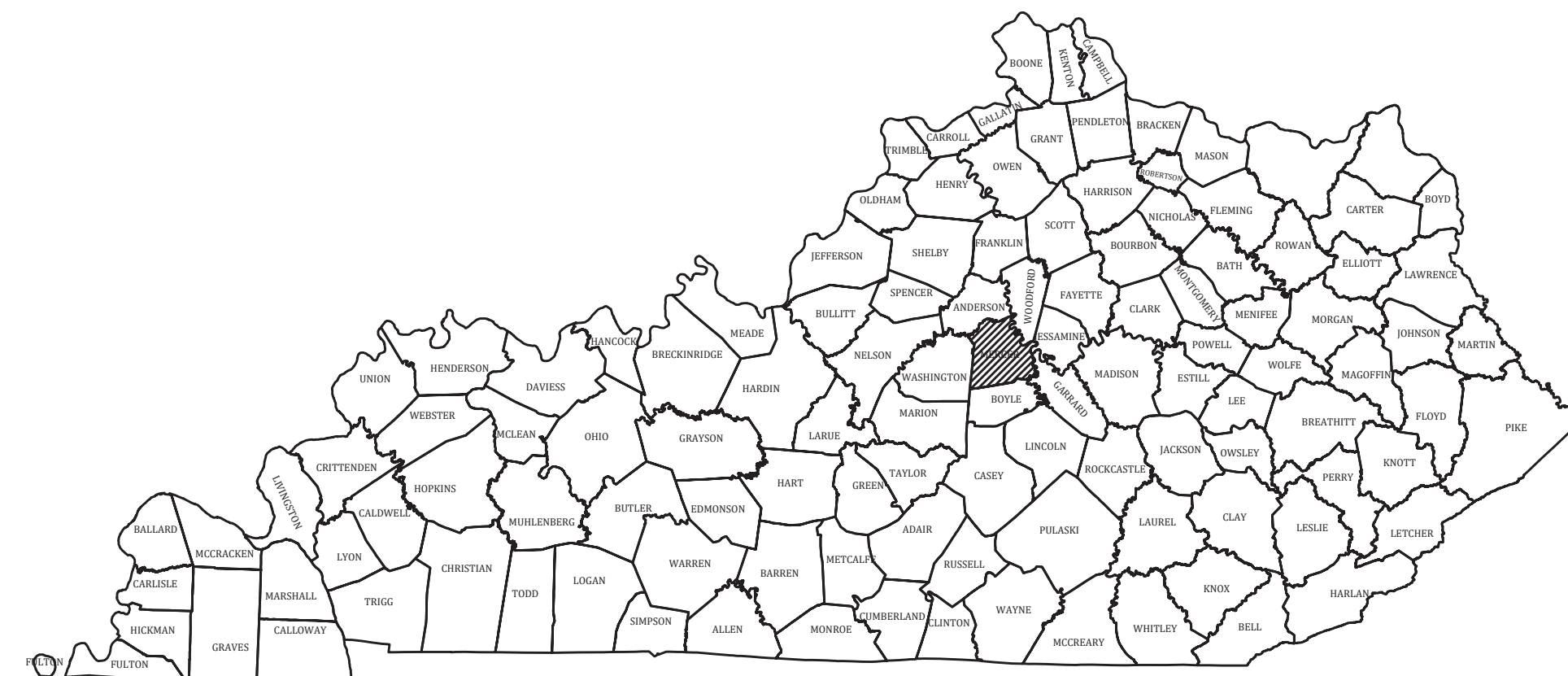


222 East Main Street, Ste. 1 • Georgetown, KY 40324

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022



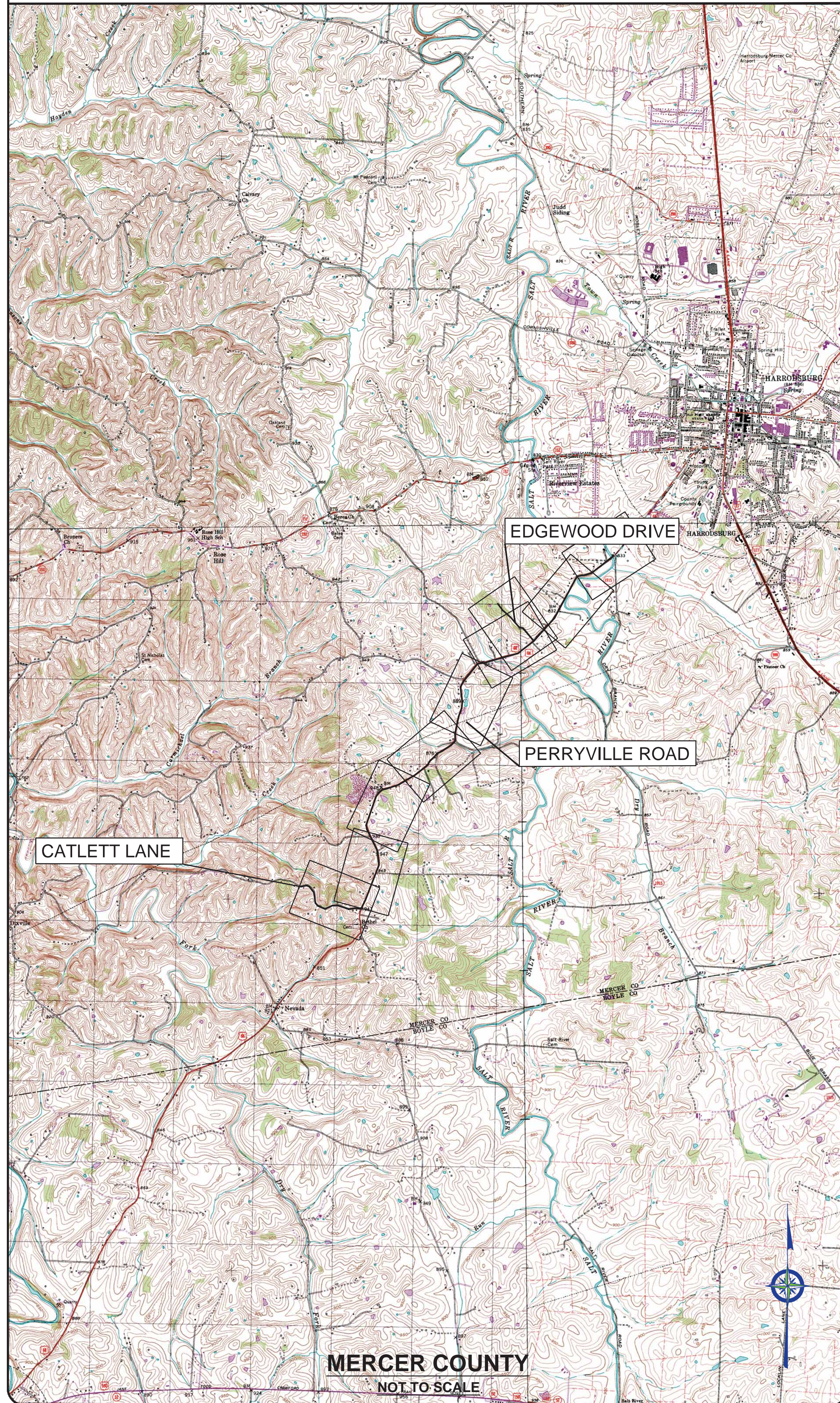
PROJECT NO. 18029

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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2A\18029-02-01-2A.dwg BE 1/30/23

PROJECT MAP



GENERAL NOTES

- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE ENGINEER TWO WORKING DAYS (MINIMUM) BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH CITY, COUNTY AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF LINES WITH CATHODIC PROTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT. MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA'S LATEST REVISION.
- ALL CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SUBSTITUTIONS AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKING NEAR EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, BENDS, PLUGS, REDUCERS, CROSSES, COUPLINGS, ETC. CONTRACTORS SHALL INCLUDE THE COST OF THESE ITEMS IN THE BID PRICE FOR THE PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL/RELOCATION OF TRAILERS, BUILDINGS, FENCES, TREES, SHRUBS, ETC. AND REPLACEMENT OF SAID ITEMS AFTER CONSTRUCTION ACTIVITIES.
- CONTRACTOR IS TO COORDINATE WITH THE PROPERTY OWNERS AS TO WHETHER OR NOT TEMPORARY FENCING IS REQUIRED AND CONSTRUCT IF NECESSARY.
- ALL PIPING SHALL HAVE 30" MINIMUM COVER.
- WHERE UNSTABLE MATERIAL IS ENCOUNTERED OR WHERE THE DEPTH OF EXCAVATION IN EARTH EXCEEDS FIVE (5) FEET, THE SIDES OF THE TRENCH OR EXCAVATION SHALL BE SUPPORTED BY SUBSTANTIAL SHEETING, BRACING, SHORING OR THE TRENCH SIDES SLOPED. SLOPING THE SIDES OF THE DITCH WILL NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHERWISE SPECIFIED. THE STANDARDS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND THE KENTUCKY LABOR CABINET SHALL BE FOLLOWED.
- ALL EXCAVATION IS UNCLASSIFIED. COMPENSATION FOR ALL EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID.
- REGRADE OF SITE SHALL BE SUCH THAT DRAINAGE IS AWAY FROM ALL STRUCTURES.
- BACKFILL AROUND ALL STRUCTURES SHALL BE SUFFICIENTLY COMPACTED TO PRECLUDE SETTLEMENT AND PONDING OF WATER AROUND STRUCTURES AND GRADED TO DIVERT RUNOFF AWAY FROM THE STRUCTURES.
- DIMENSIONS, DETAILS AND REINFORCEMENT MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- ALL VALVES & HYDRANTS SHALL BE LOCATED AT THE BACKSIDE OF THE DITCHLINE.
- FINAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCTION & APPROVED BY THE ENGINEER.
- AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
- NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS BID PRICE.
- ROCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DETERMINE SUBSURFACE CONDITIONS.
- CONTRACTOR TO DIG/EXPOSE EXISTING WATER MAIN FAR ENOUGH AHEAD OF NEW WATER MAIN CONSTRUCTION TO AVOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING CUSTOMER SERVICES.
- ALL NEW SERVICE LINE FROM THE NEW MAIN TO THE SETTERS SHALL BE 3/4" ENDOT ENDOPURE TUBING UNLESS SHOWN DIFFERENTLY ON THE PLANS
- THE MAXIMUM ALLOWABLE LENGTH OF SERVICE LINE FROM THE WATER MAIN TO THE CUSTOMER'S METER SERVICE SHALL BE AS FOLLOWS:

SERVICE LINE DIAMETER	MAXIMUM LENGTH
3/4 INCH	125 FEET
1 INCH	150 FEET
1-1/2 INCH	200 FEET
2 INCH	250 FEET
- CONNECTIONS TO EXISTING DISTRIBUTION SYSTEM SHALL BE MADE AS FOLLOWS:
 - CONNECT TO EXISTING (SIZE) W.M. (WET TAP) - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS, VALVES AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN UNDER PRESSURE.
 - CONNECT TO EXISTING (SIZE) W.M. - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN. VALVES ARE A SEPARATE PAY ITEM.
- NO BLASTING WILL BE PERMITTED ON THIS PROJECT
- GRIP RINGS SHALL BE INSTALLED ON ALL FITTINGS
- ALL PVC CASING SHALL BE MINIMUM OF 4" LARGER THAN CARRIER PIPE. STEEL CASING MINIMUM 6" LARGER.
- ALL EXISTING METERS SHALL BE RECONNECTED TO NEW WATER MAINS W/NEW 3/4" PE SERVICE LINE.
- NMR - (NEW METER RECONNECT) MARKED ON PLANS WILL NOTE THOSE MATERIALS THAT WILL BE REPLACED WITH NEW METER ASSEMBLY'S (SETTER, BOX, LID, ETC) AND RECONNECTED TO EXISTING SERVICE AND NEW WATER MAIN.
- ANY MAILBOX THAT IS REMOVED FOR THE INSTALLATION OF THE WATER MAIN MUST BE RE-INSTALLED ONCE THE WATER MAIN HAS BEEN INSTALLED.
- ALL CONNECTIONS BETWEEN THE PVC AND HDPE MUST BE SEALED IN PLASTIC AND CONCRETED.
- BLUEGRASS CELLULAR REQUIRES NO MECHANICAL DIGGING WITHIN 18" OF EXISTING CABLE.
- PORTABLE TOILET REQUIRED.
- NEW METER BOXES SHALL BE 18" IN DIAMETER WITH FLAT METAL LID.
- EXISTING EASEMENT IS 7.5' EACH SIDE OF EXISTING WATER MAIN

GENERAL NOTES

- NEW LINE AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN REPLACED AND RECONNECTED TO THE NEW LINE
 - NO METERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND SAMPLING HAS BEEN SUCCESSFULLY COMPLETED
 - COPIES OF ALL BAC-T RESULTS MUST BE PROVIDED TO THE OWNER PRIOR TO RECONNECTS OF ANY METER.
 - A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE TAPED TO THE TOP OF THE WATER MAIN PIPE. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPEL OUTSIDE ALL VALVE BOXES W/ ENOUGH SLACK TO ALLOW ACCESS TO THE LOOPS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR RECONNECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.
- FINAL CLEANUP AND RESTORATION**
- UNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, CLEANUP OF DISTURBED AREAS SHALL BE KEPT CURRENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO LONGER THAN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED MATERIAL NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS SHALL BE REMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR ADJACENT PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER THE TRENCH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE TRENCH. ALL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

CONSTRUCTION IN KTC RIGHT-OF-WAY

- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 6 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.

DRAWING INDEX

SHT. NO.	DESCRIPTION:
--	COVER
01	PROJECT MAP, EXISTING UTILITIES, LEGEND AND DRAWING INDEX
02	AERIAL PLAN - EDGEWOOD
03 - 09	AERIAL PLAN - PERRYVILLE ROAD
10	AERIAL PLAN - CATLETT LANE
11 - 13	STANDARD DETAILS - WATER MAIN

LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING GAS MAIN
- EXISTING FORCE MAIN
- NEW STEEL CASING
- EXISTING CULVERT
- NEW FLUSHING HYDRANT
- EXISTING FLUSHING HYDRANT
- EXISTING WATER METER
- NEW GATE VALVE & BOX
- EXISTING MANHOLE

EXISTING UTILITIES

NOTE:
IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

WATER
NORTH MERCER WATER DISTRICT
PO BOX 79
SALVISA, KY 40372
MISCHELL LEE, MANAGER
(859) 865-2292 OFFICE

GAS

ELECTRIC

TELEPHONE & CABLE
FIBER OPTIC - BLUEGRASS NETWORK
(270) 746-1600

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A
PROJECT MAP, EXISTING UTILITIES,
LEGEND & DRAWING INDEX



PROJECT #: 18029
DATE: OCTOBER 2019
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



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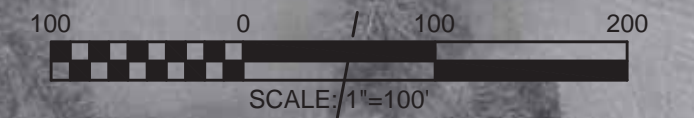
NOTE: EDGE OF COUNTY ROAD THIS SHEET, UNLESS OTHERWISE NOTED

NOTE: RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3" CL.250 SERVICE LINE UNLESS OTHERWISE NOTED

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ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6" LARGER THAN CARRIER PIPE)



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**2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A**

EDGEWOOD DRIVE



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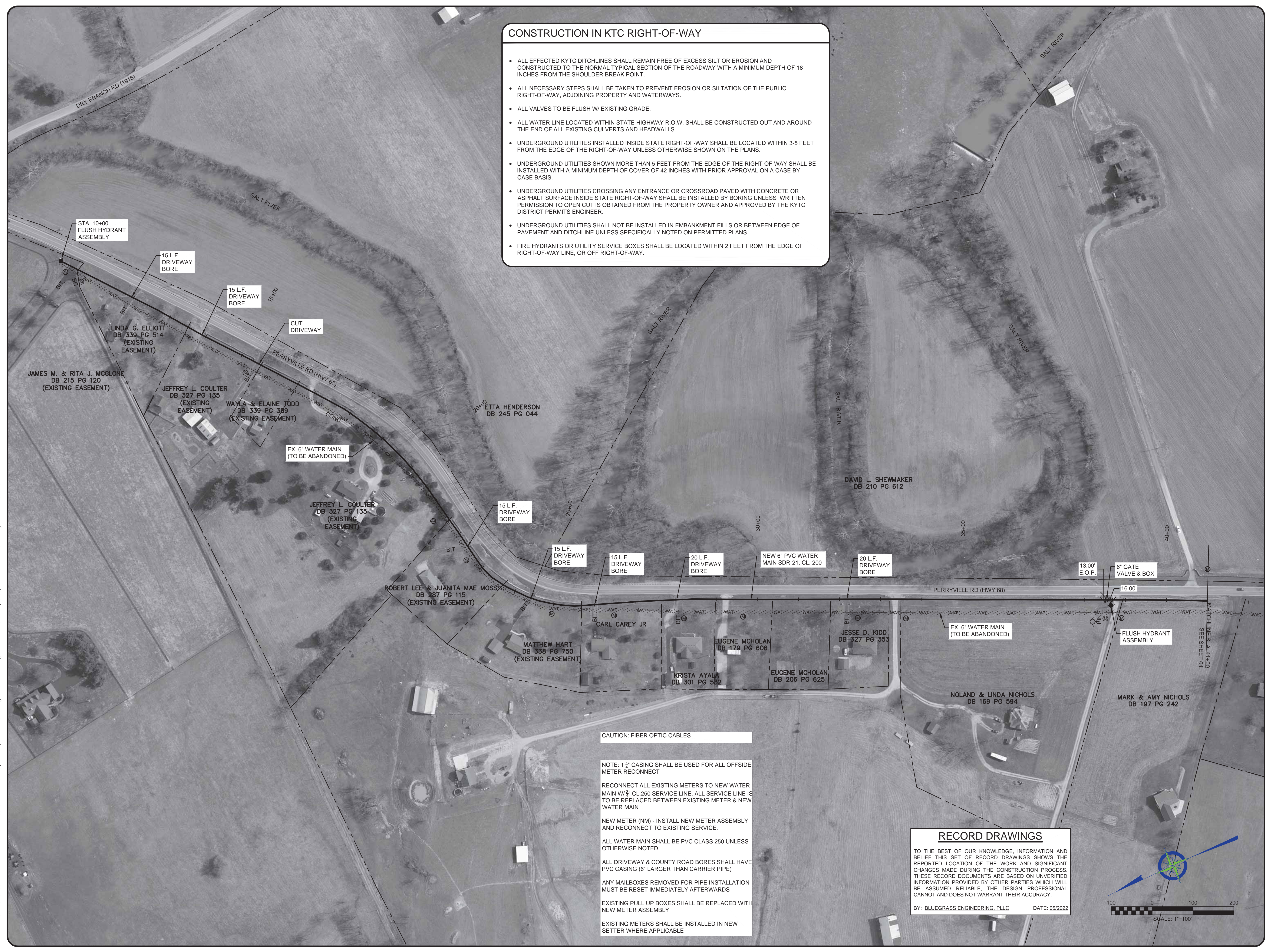
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CAUTION: FIBER OPTIC CABLES

NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3/4" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

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PERRYVILLE ROAD

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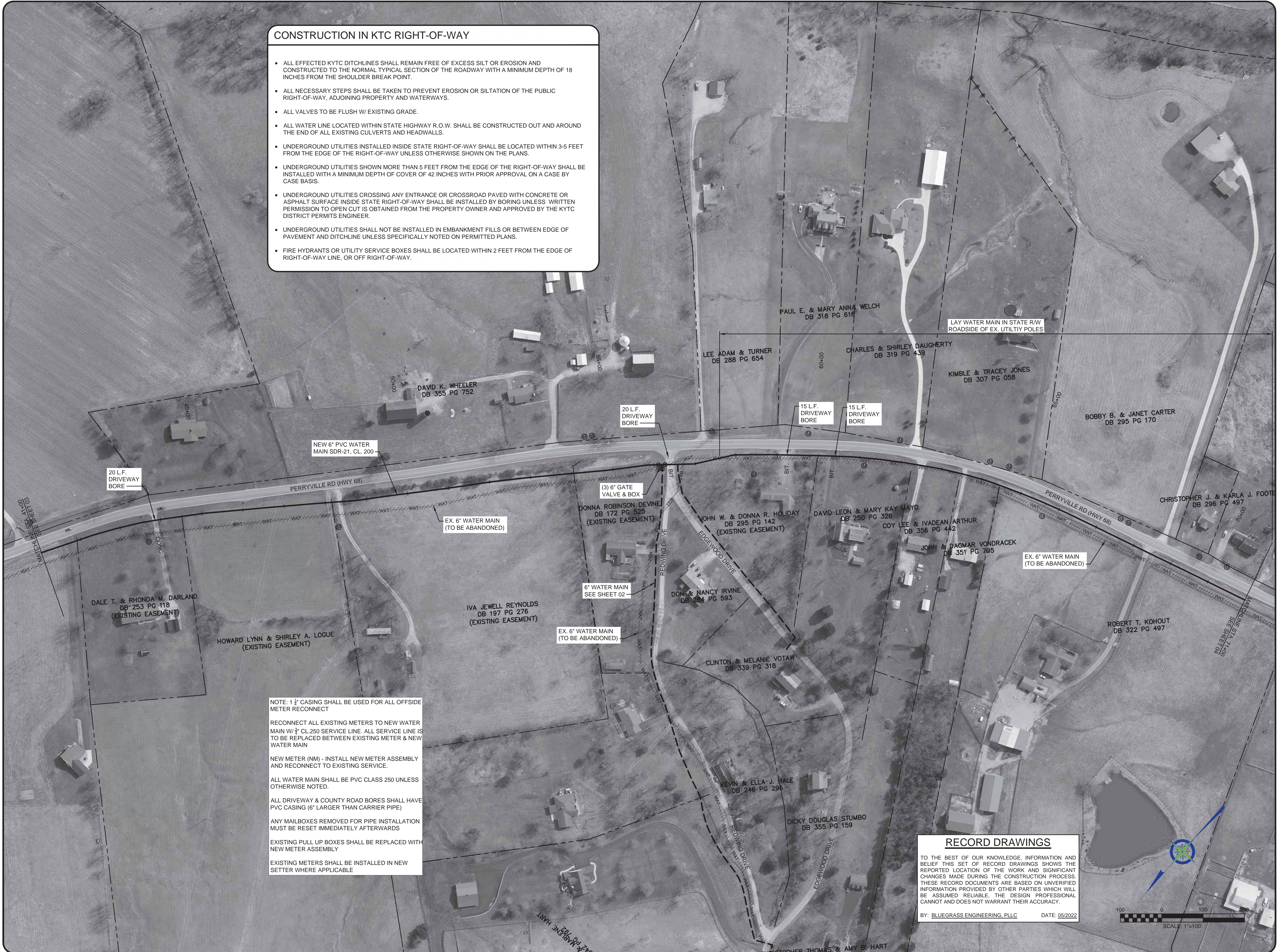
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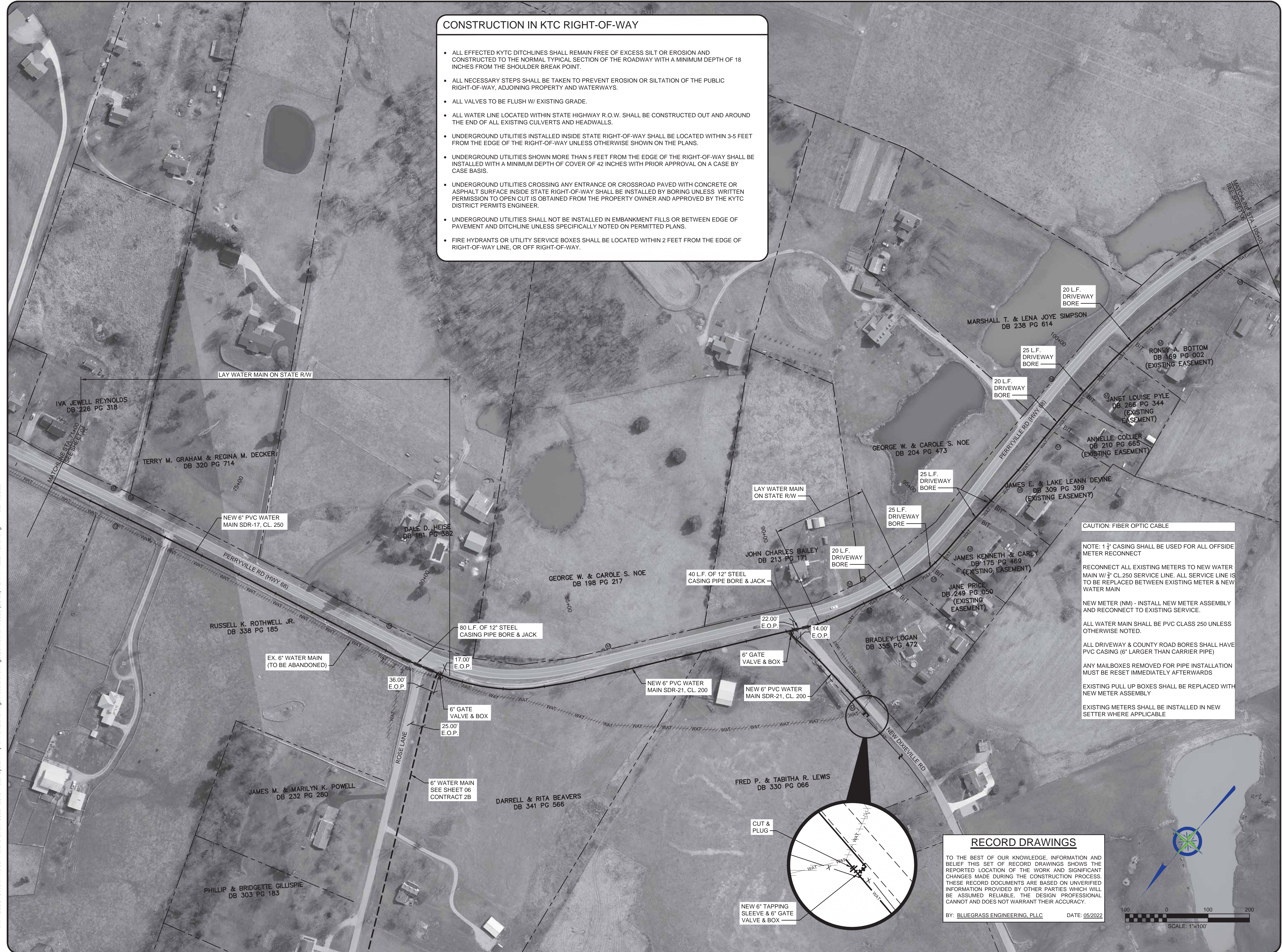
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- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.



CAUTION: FIBER OPTIC CABLE

NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3/4" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

NEW METER (NM) - INSTALL NEW METER ASSEMBLY AND RECONNECT TO EXISTING SERVICE.

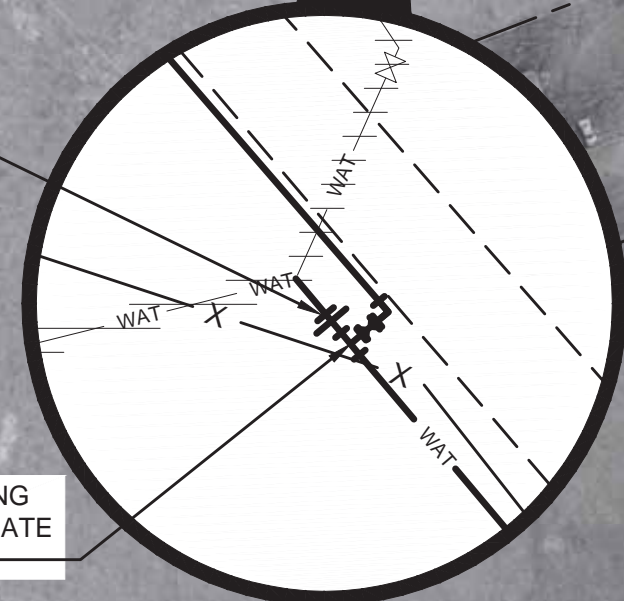
ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6" LARGER THAN CARRIER PIPE)

ANY MAILBOXES REMOVED FOR PIPE INSTALLATION MUST BE RESET IMMEDIATELY AFTERWARDS

EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

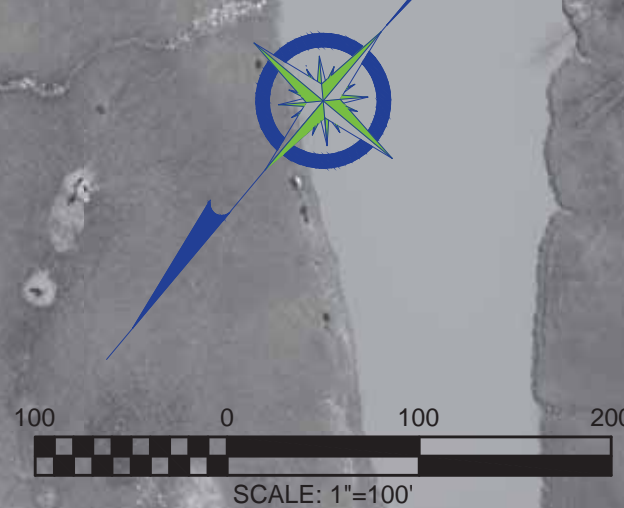
EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE



RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022



NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

**2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A**

PERRYVILLE ROAD



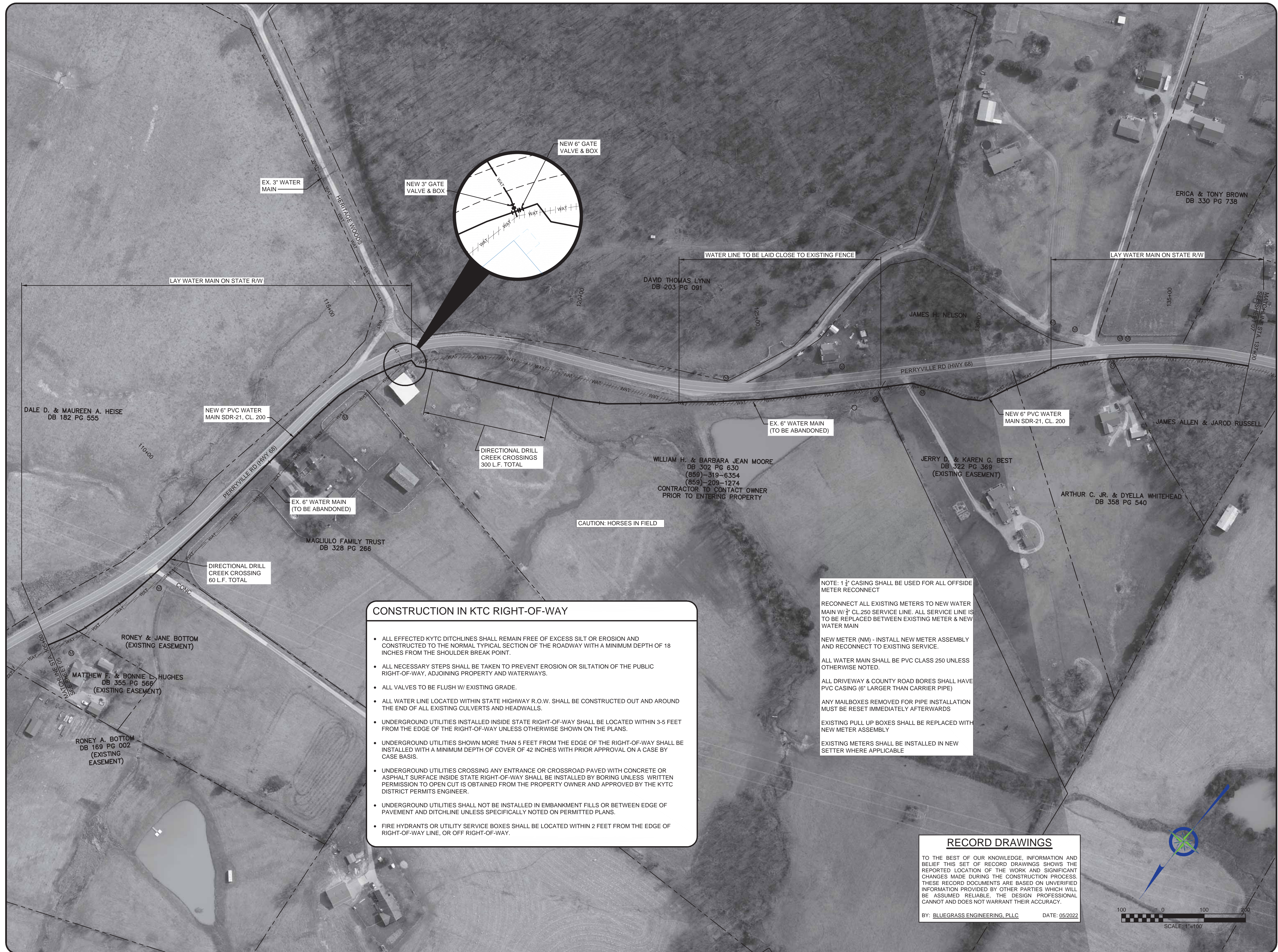
PROJECT #: 18029
 DATE: OCTOBER 2019
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR



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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2A\18029-05-09 PERRYVILLE ROAD.dwg BE 10/20/23



CONSTRUCTION IN KYTC RIGHT-OF-WAY

- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
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NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 1/2" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

NEW METER (NM) - INSTALL NEW METER ASSEMBLY AND RECONNECT TO EXISTING SERVICE.

ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6" LARGER THAN CARRIER PIPE)

ANY MAILBOXES REMOVED FOR PIPE INSTALLATION MUST BE RESET IMMEDIATELY AFTERWARDS

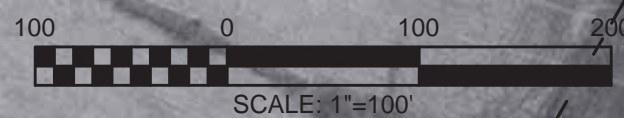
EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022



NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOOW COMMENTS	WCM

**2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A**

PERRYVILLE ROAD



PROJECT #: 18029
 DATE: OCTOBER 2019
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR



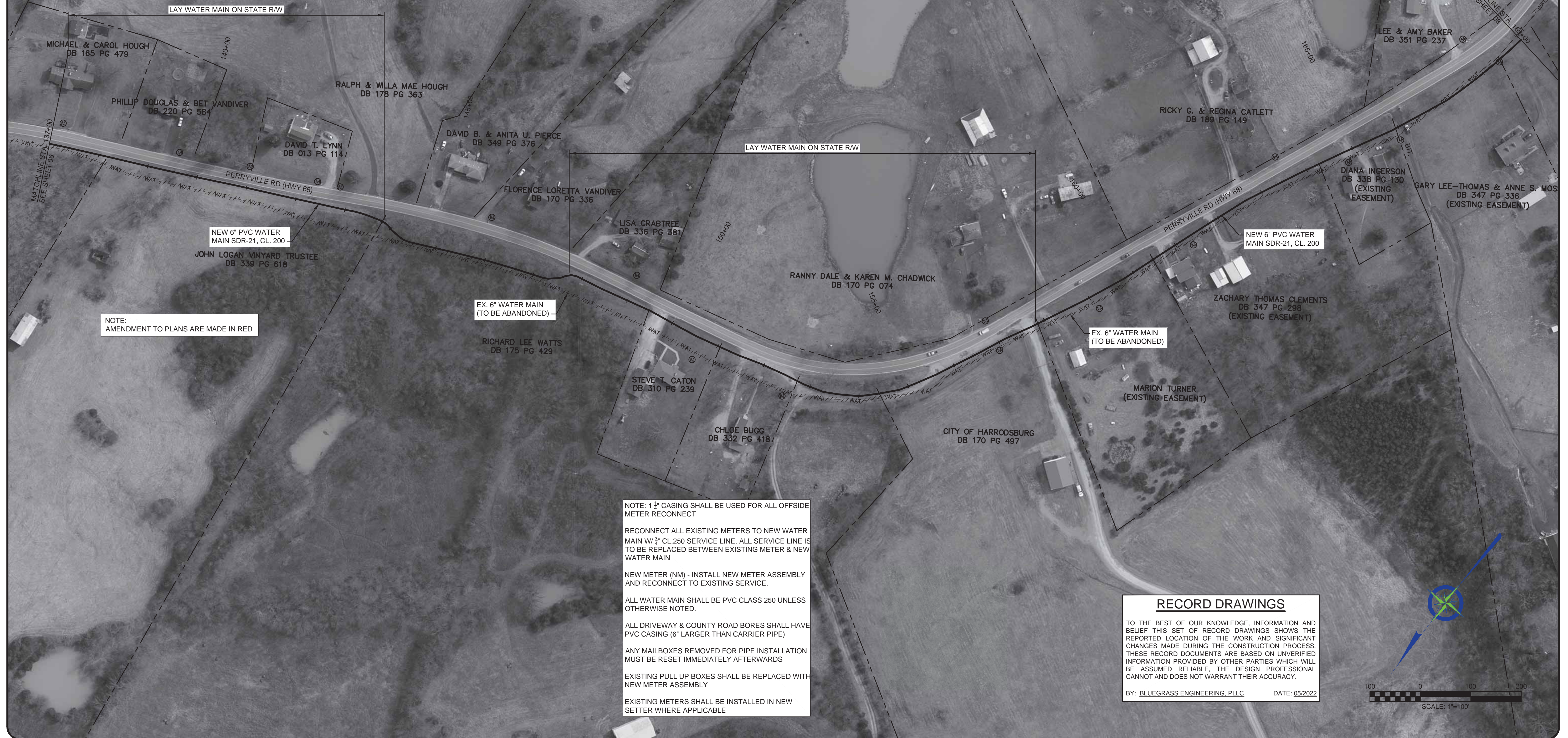
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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2A\18029-05-09 PERRYVILLE ROAD.dwg BE 1/30/23

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NOTE:
AMENDMENT TO PLANS ARE MADE IN RED

NOTE: 1 1/4" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3/4" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

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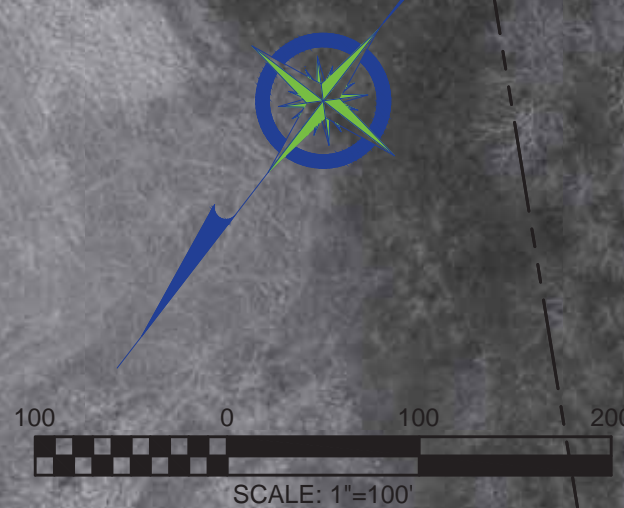
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022



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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A
PERRYVILLE ROAD



PROJECT #: 18029
DATE: OCTOBER 2019
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



RECORD DRAWINGS

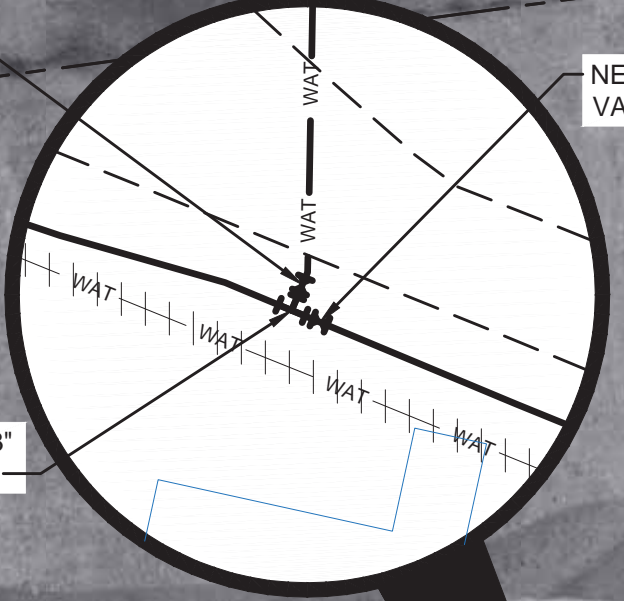
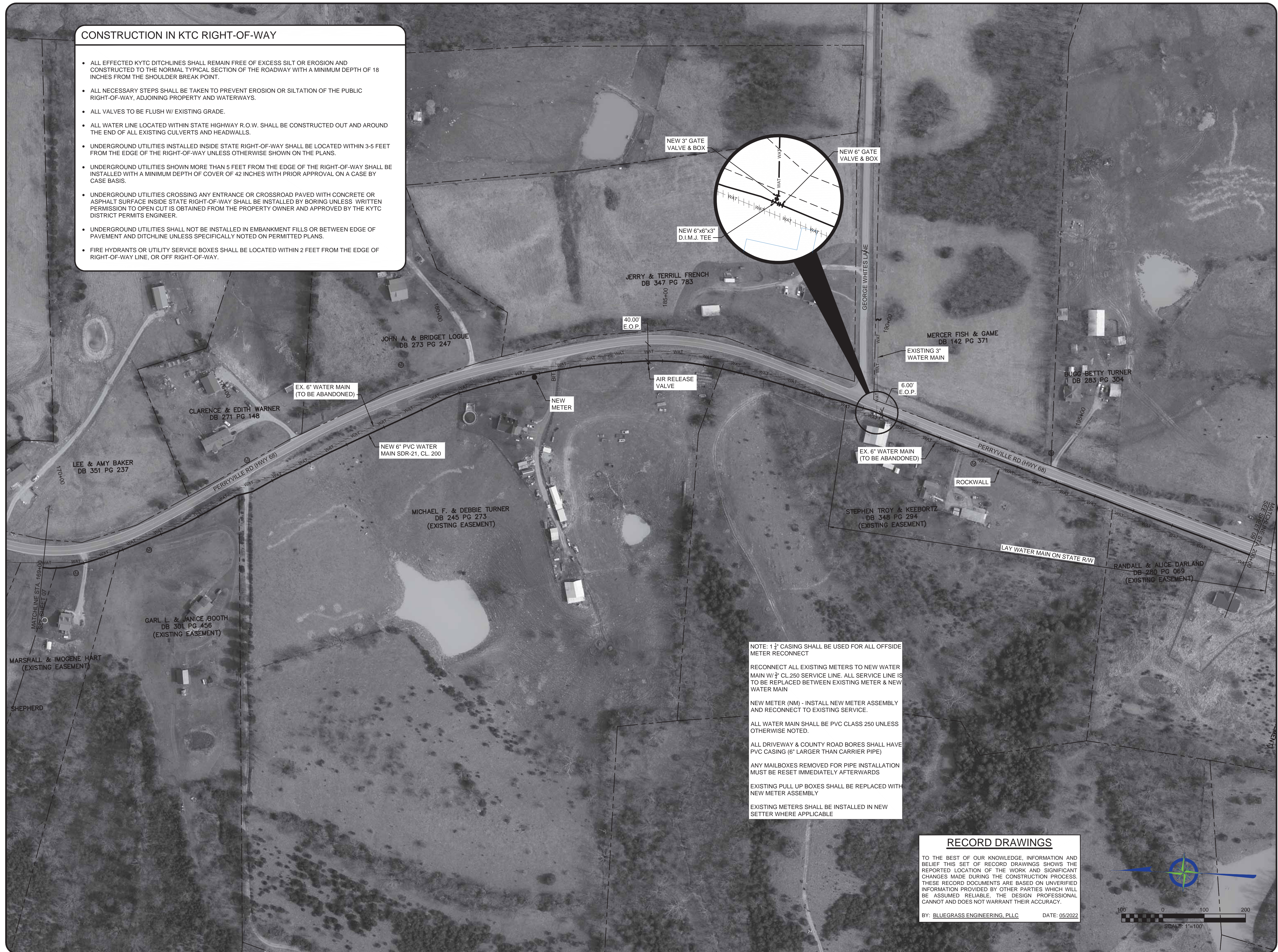
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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2A\18029-05-09 PERRYVILLE ROAD.dwg BE 1/30/23

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NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

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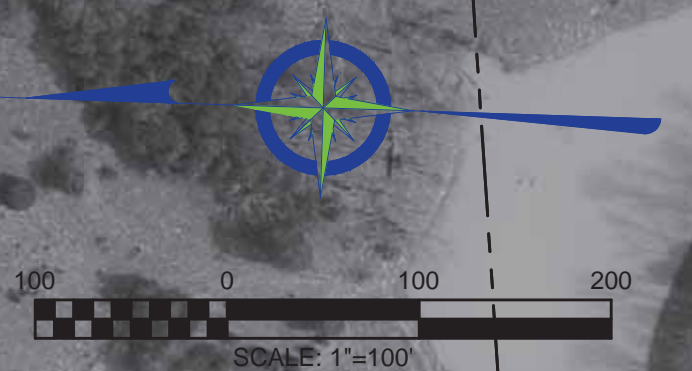
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022



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**2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A**

PERRYVILLE ROAD



PROJECT #: 18029
 DATE: OCTOBER 2019
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR



08

RECORD DRAWINGS

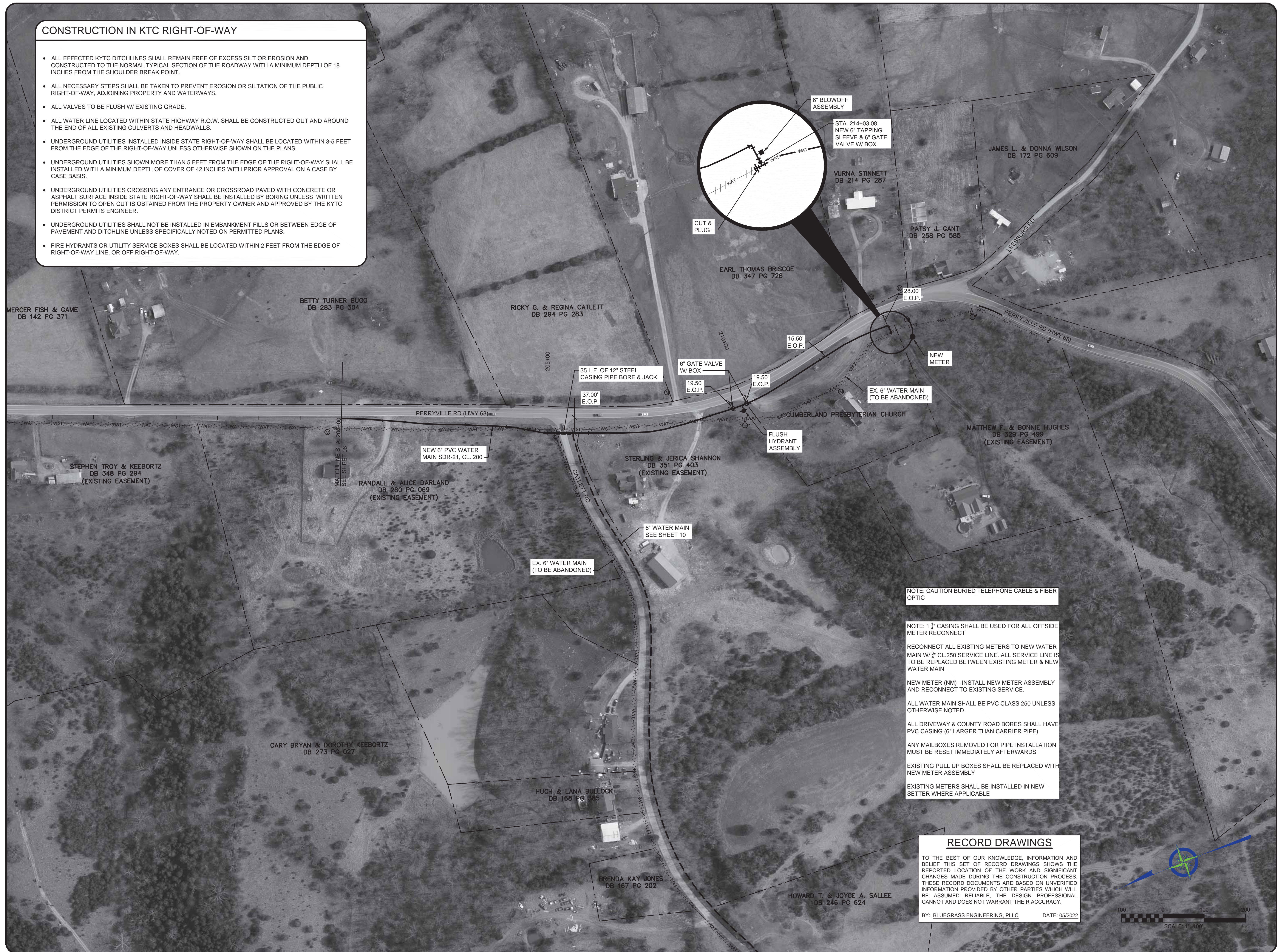
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NOTE: CAUTION BURIED TELEPHONE CABLE & FIBER OPTIC

NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 1/2" CL. 250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A
PERRYVILLE ROAD

BLUEGRASS ENGINEERING, PLLC
222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #: 18029
DATE: OCTOBER 2019
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR

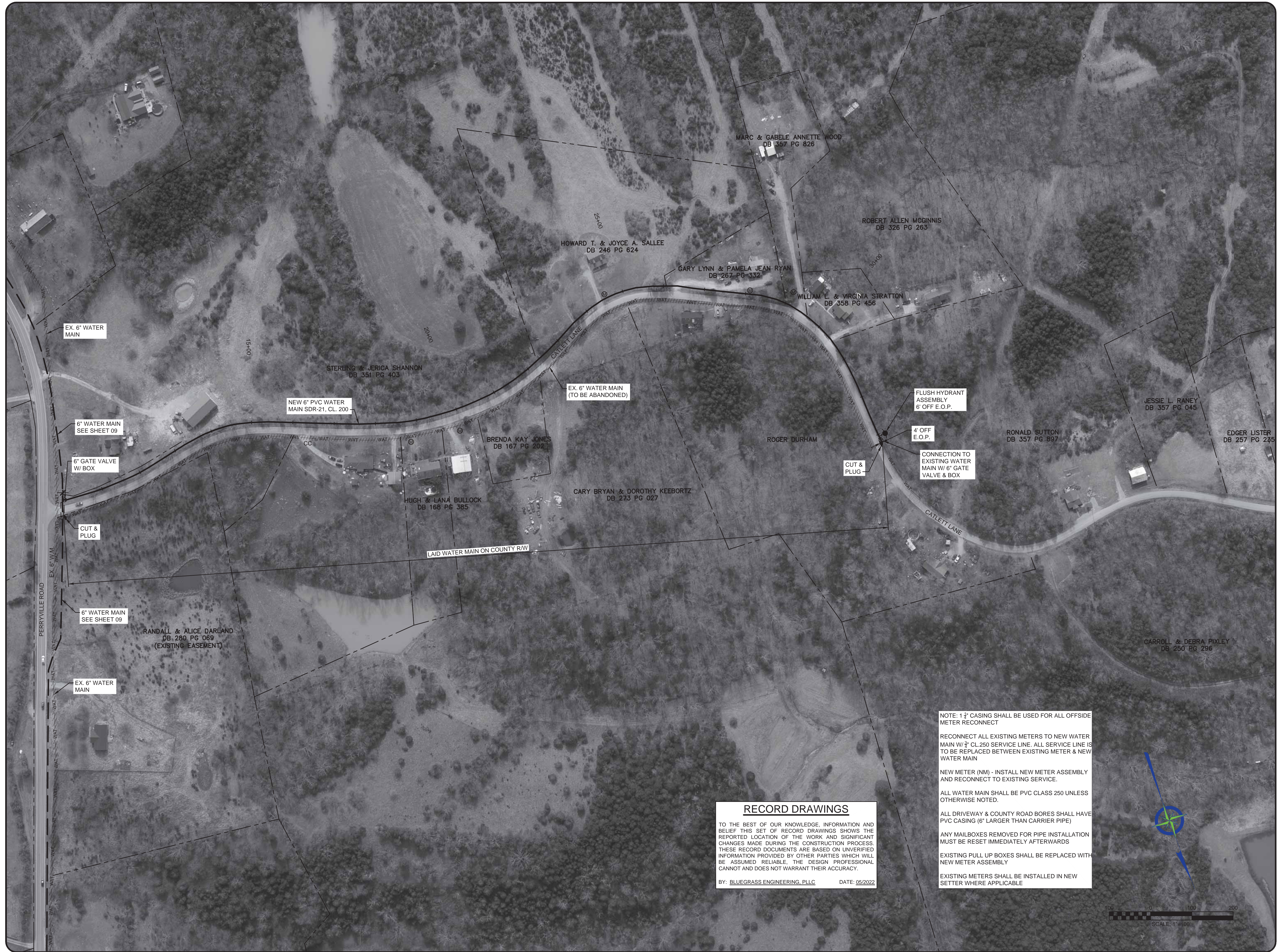


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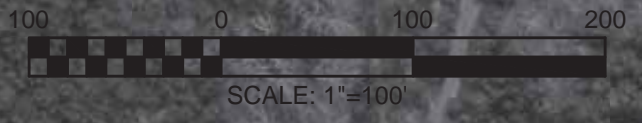
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 BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

NOTE: 1" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT
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2019 WATER SYSTEM IMPROVEMENTS
 CONTRACT 2A
 CATLETT LANE



PROJECT #: 18029
 DATE: OCTOBER 2019
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR

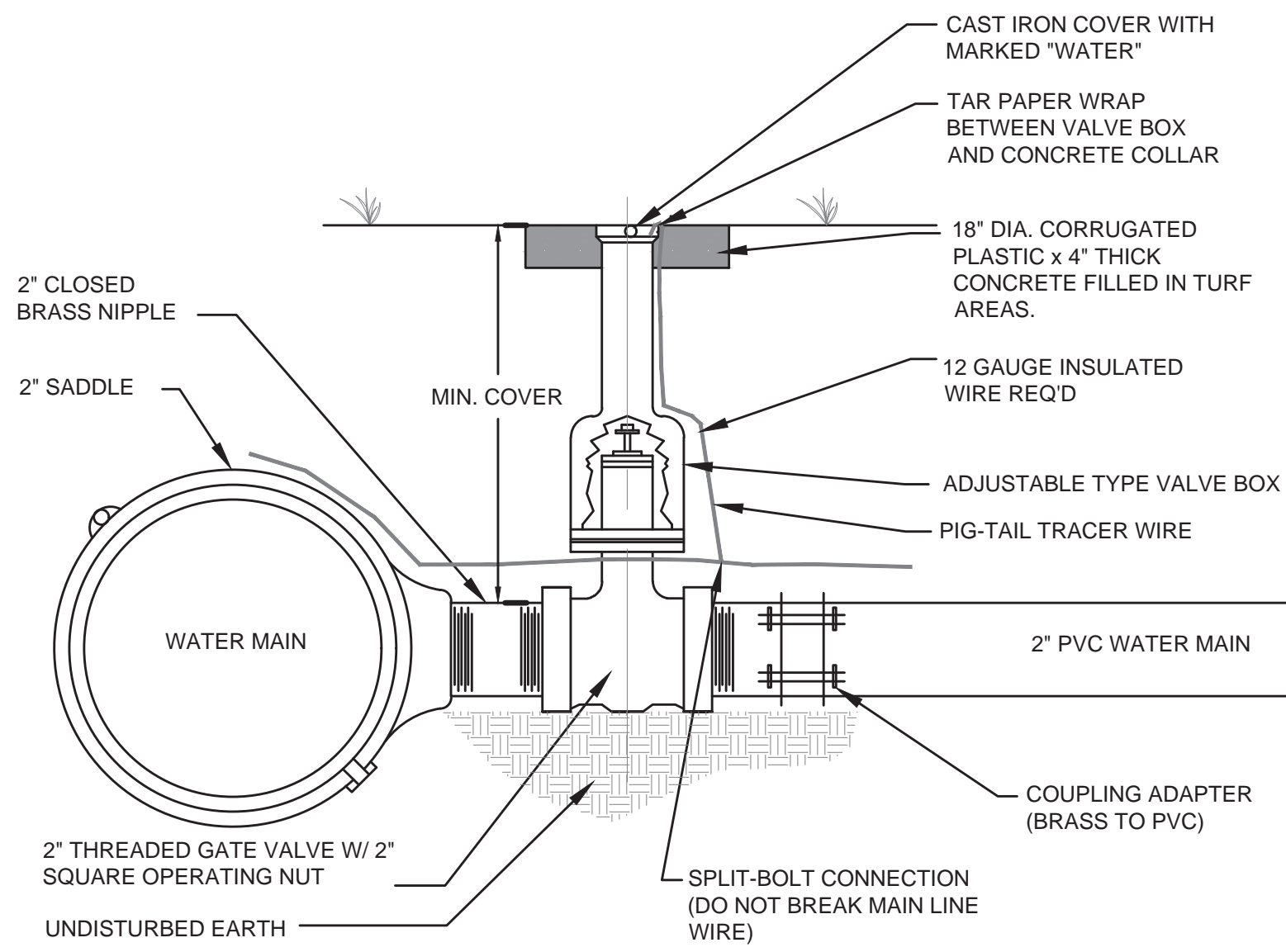


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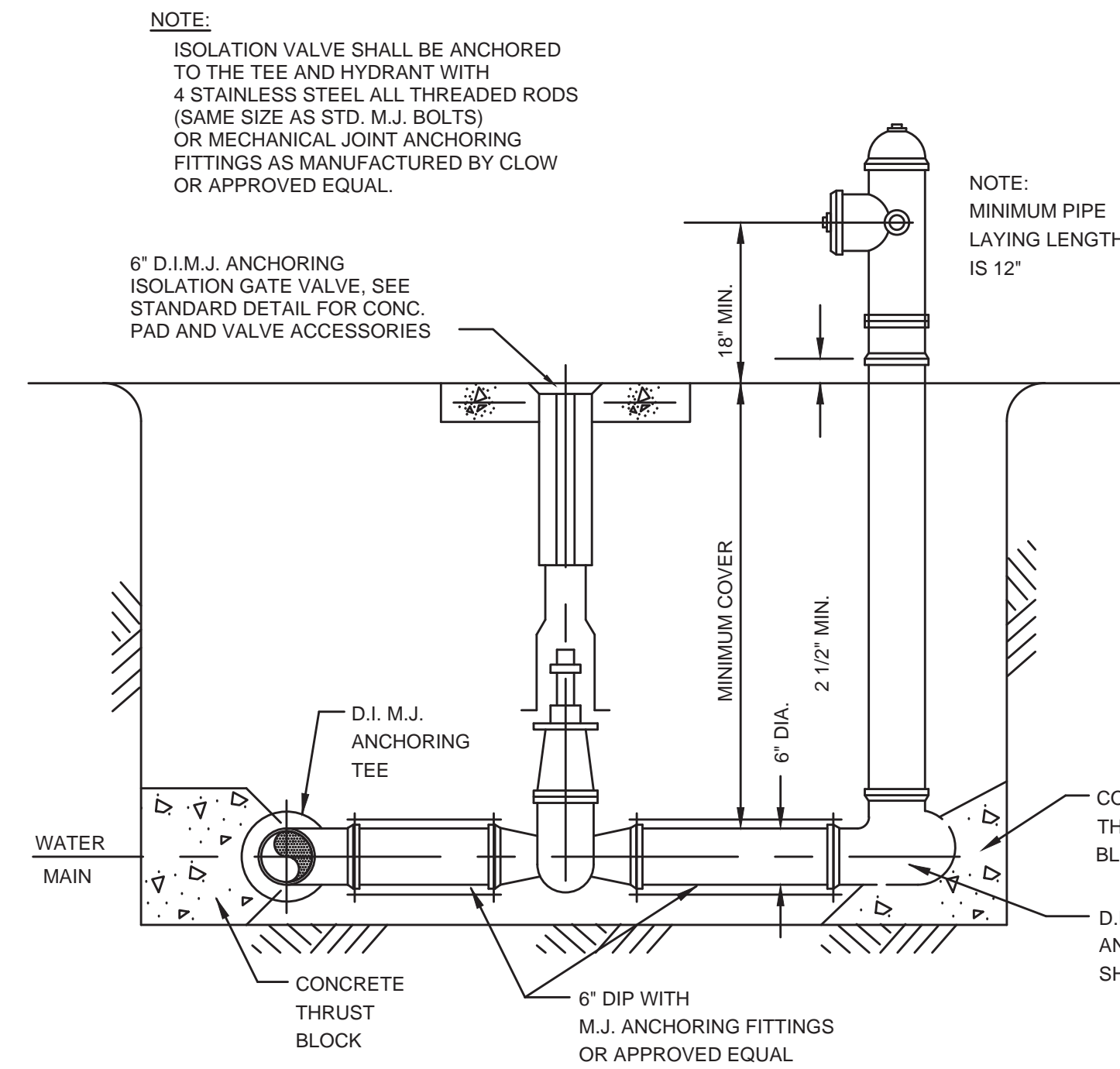
BE 1/30/23

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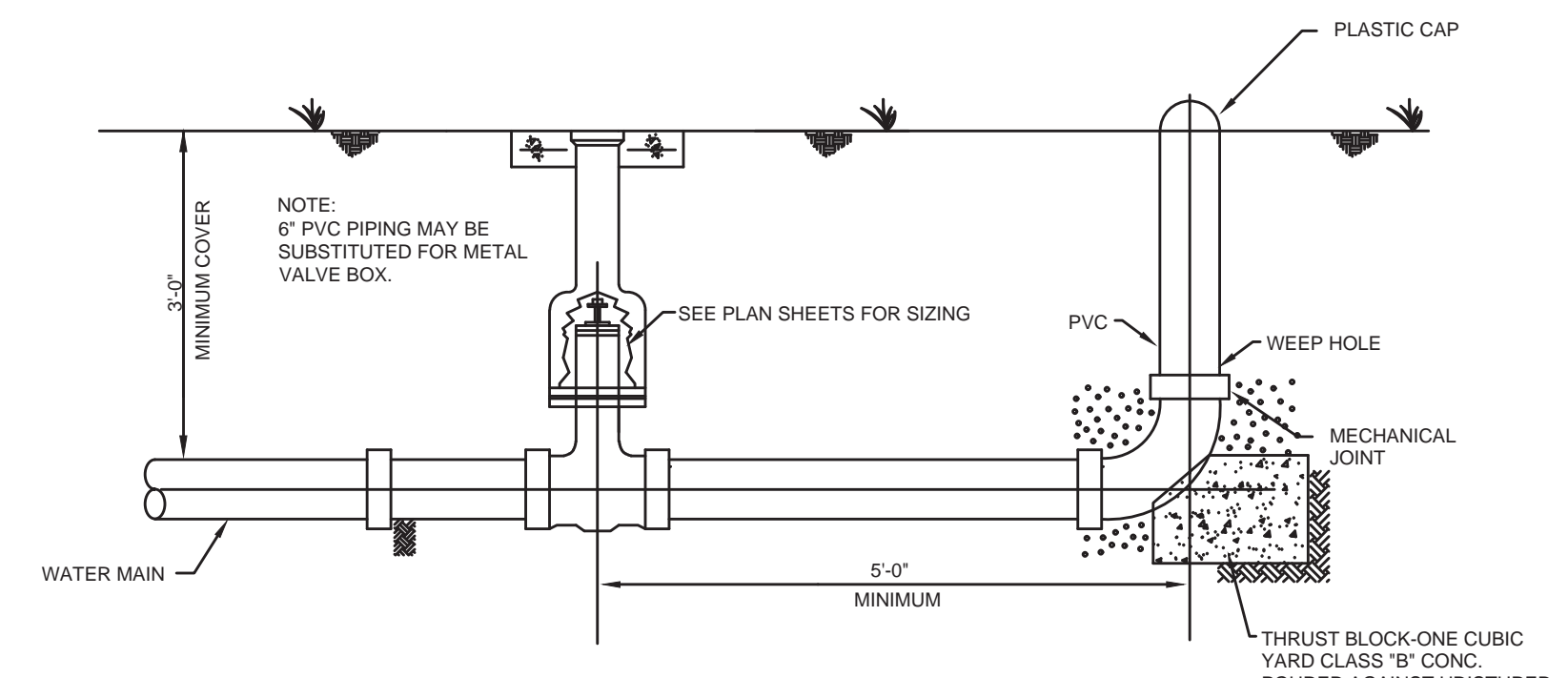
CONNECTION FOR 2" WATER MAINS

NOT TO SCALE



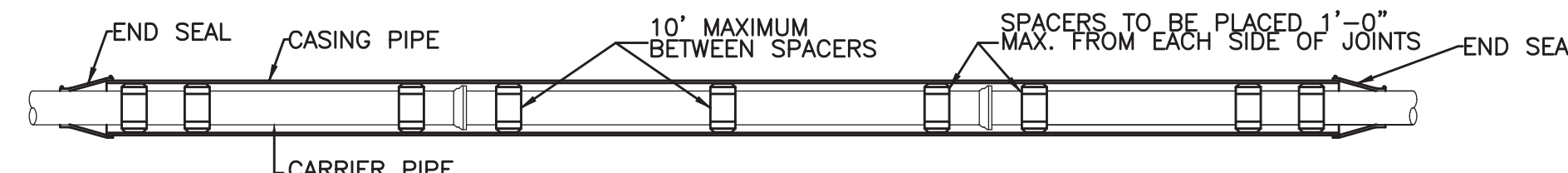
FLUSHING HYDRANT ASSEMBLY

NOT TO SCALE

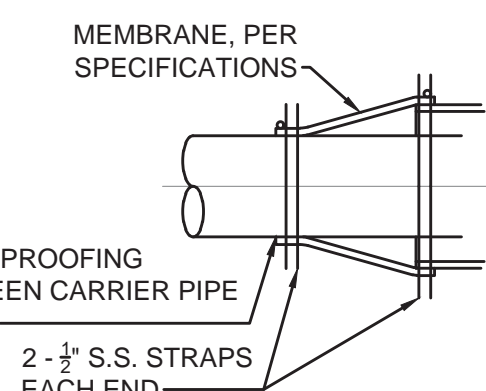


E.O.L. 2", 3", or 4" UNDERGROUND BLOWOFF ASSEMBLY

NOT TO SCALE



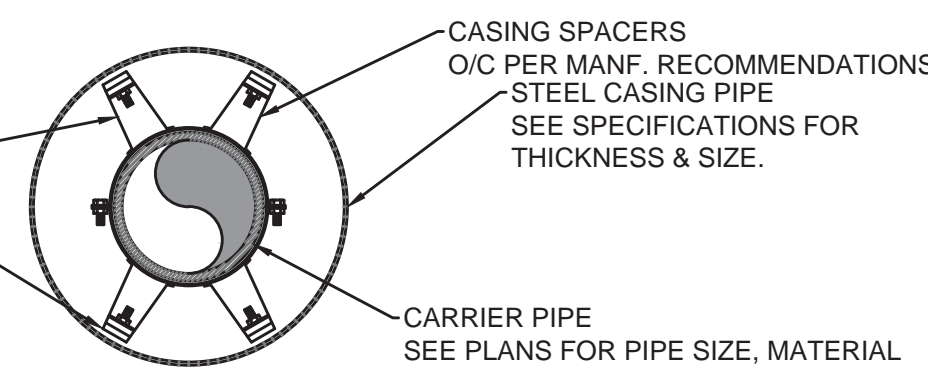
PLAN



DETAIL - END SEAL

NOTE:

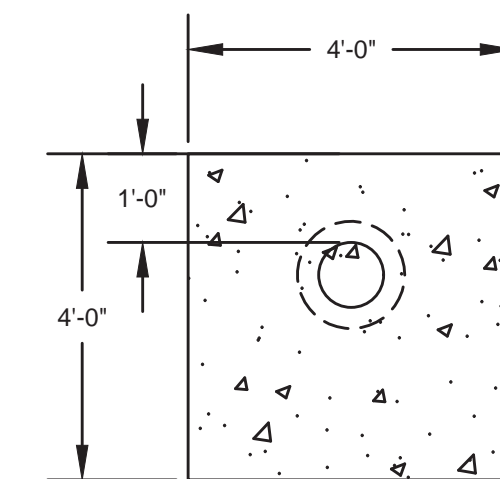
1. RUNNER HEIGHTS VARY FROM 1/2" TO 2" AND SHALL BE DETERMINED DURING SHOP DRAWING REVIEW.
2. SPACERS SHALL BE USED IN CASING PIPES.
3. CARRIER PIPES SHALL BE RESTRAINED JOINT (GRIP GASKETS, MECHANICAL, ETC.)



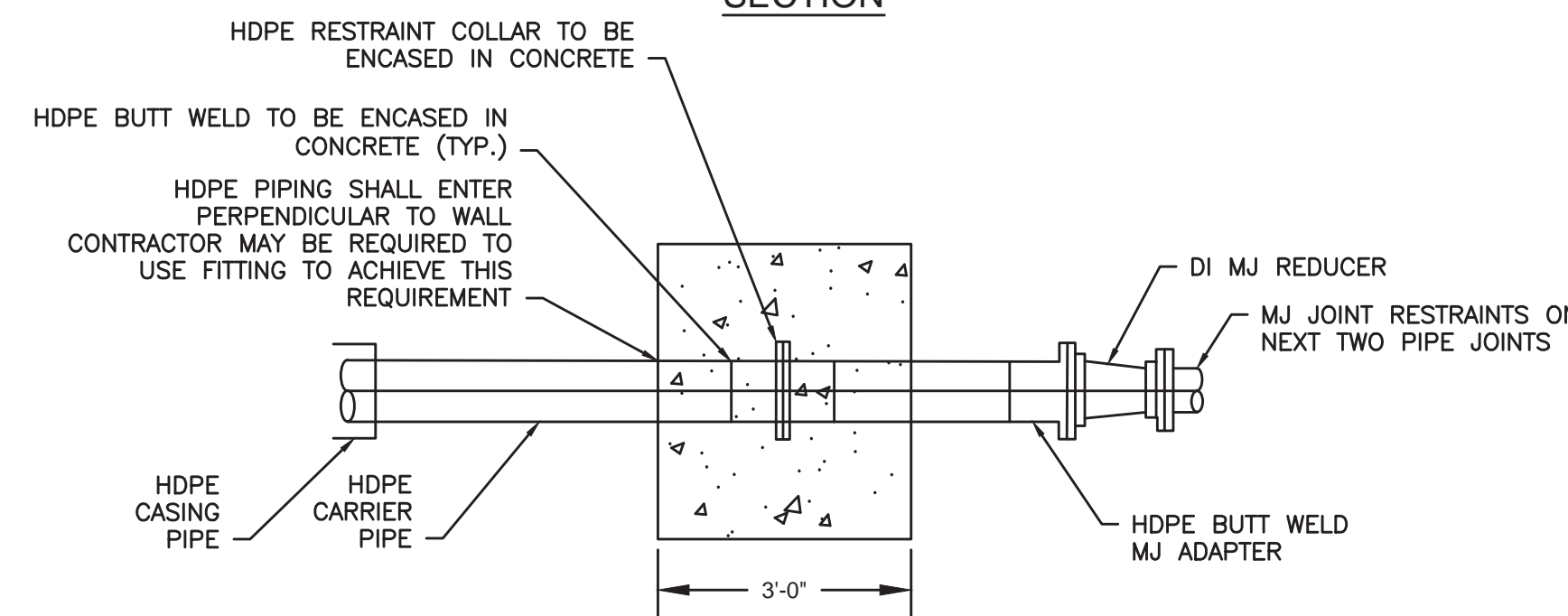
CROSS SECTION

DETAIL - STEEL CASING

NOT TO SCALE

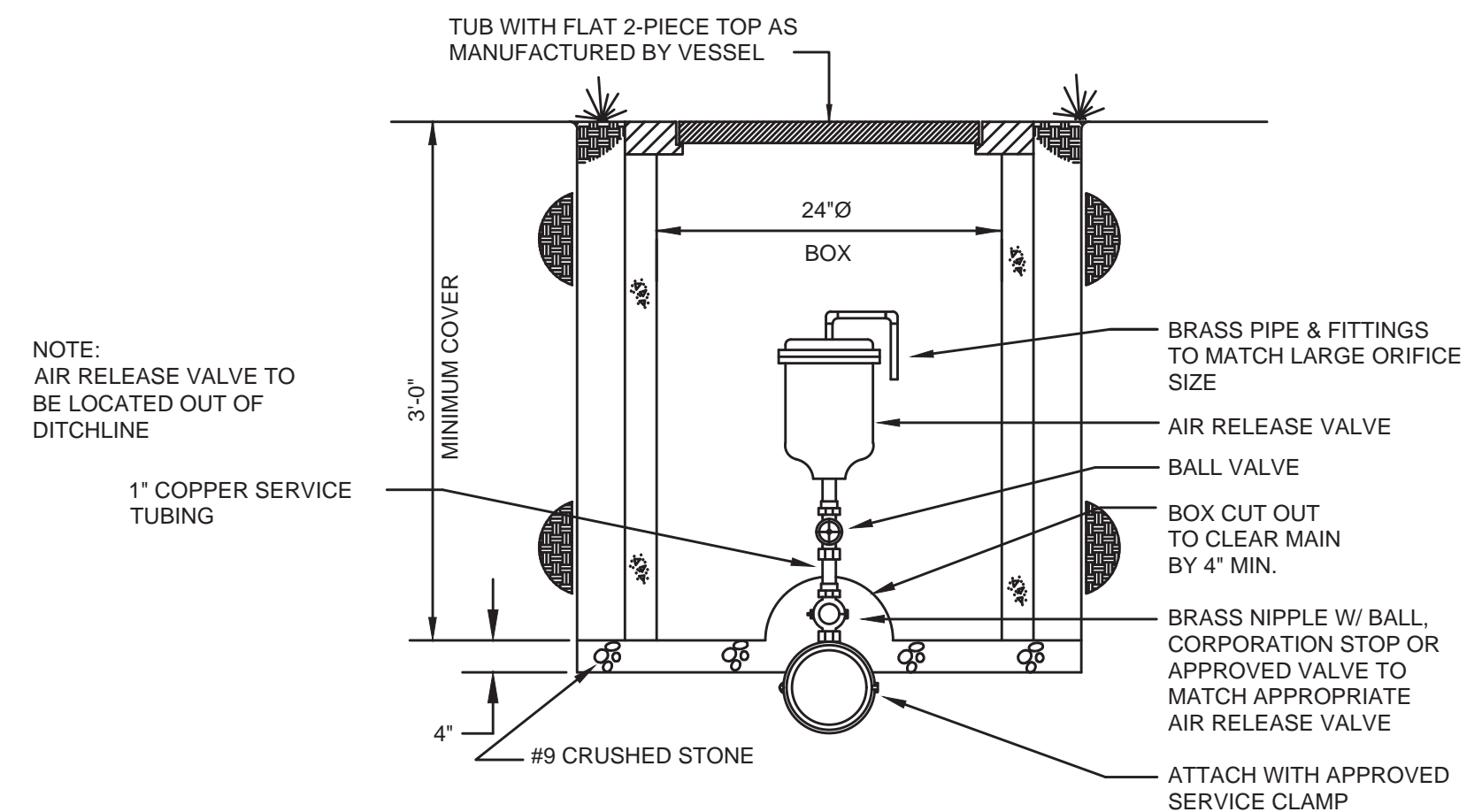


SECTION



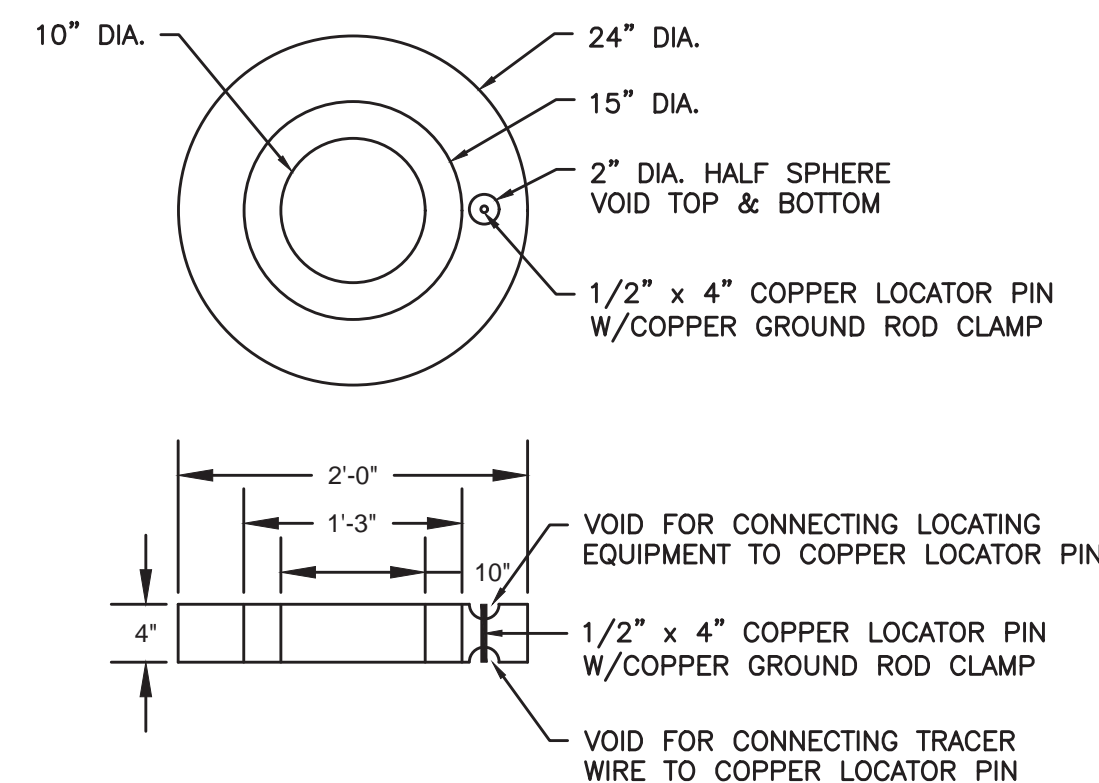
HDPE RESTRAINT WALL

NOT TO SCALE



AIR RELEASE VALVE

NOT TO SCALE



24" DIAMETER CONCRETE VALVE BOX PROTECTOR RING W/COPPER LOCATOR PIN

NOT TO SCALE

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

NO.	DATE	BY

2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 2A

STANDARD DETAILS

BLUEGRASS ENGINEERING, PLLC
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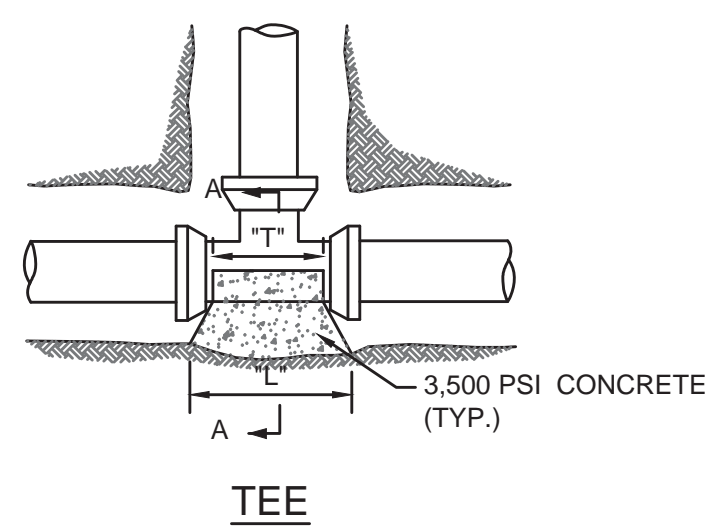
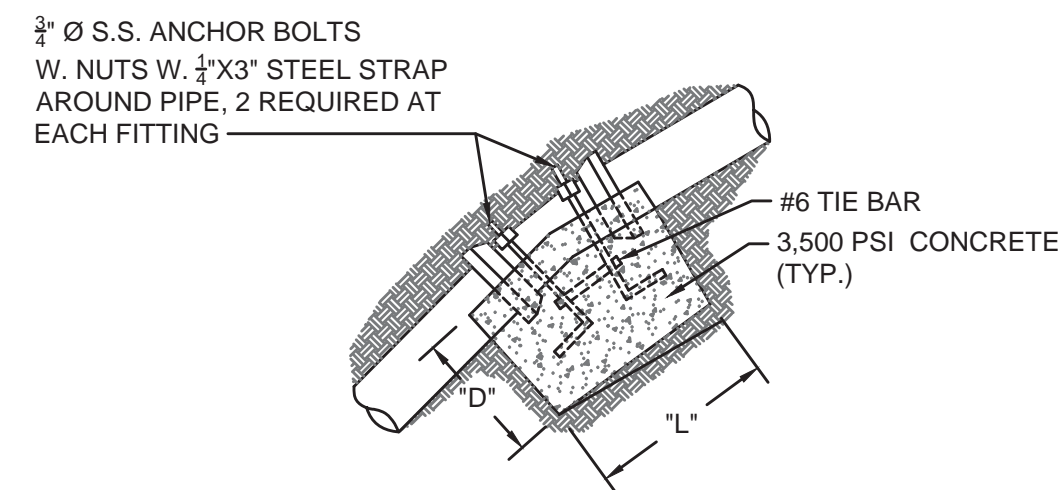
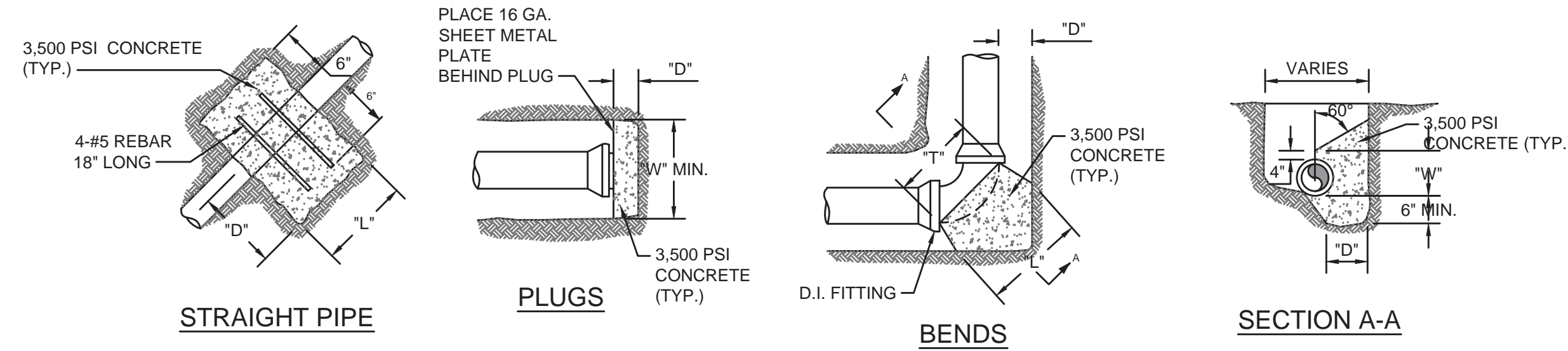
PROJECT #: 18029
DATE: OCTOBER 2019
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



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B:\PROJECTS\North Mercer Water District\18029 - 2018 Water System Improvements\Drawings\Record Drawings\Contract 2A (11-13).dwg BE 1/30/23

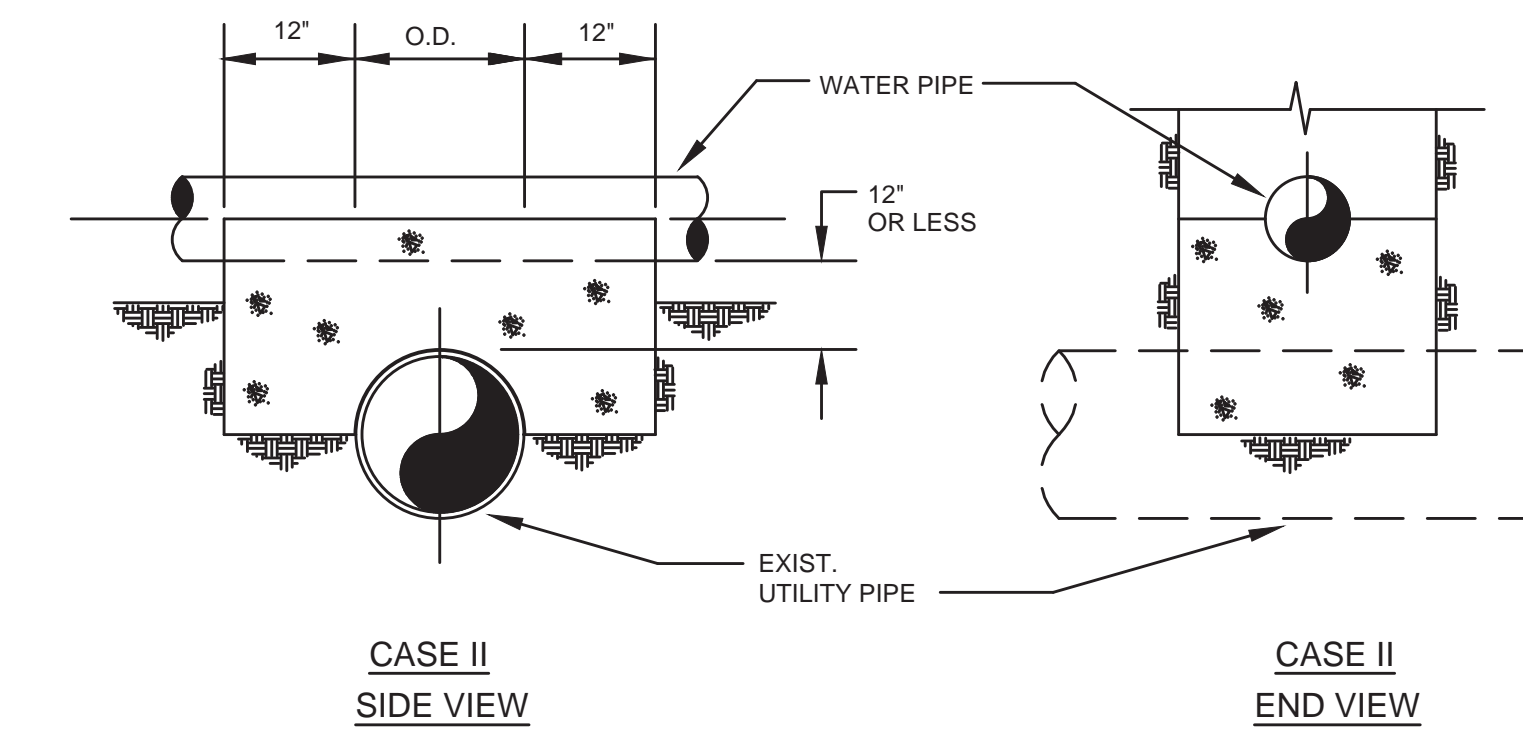
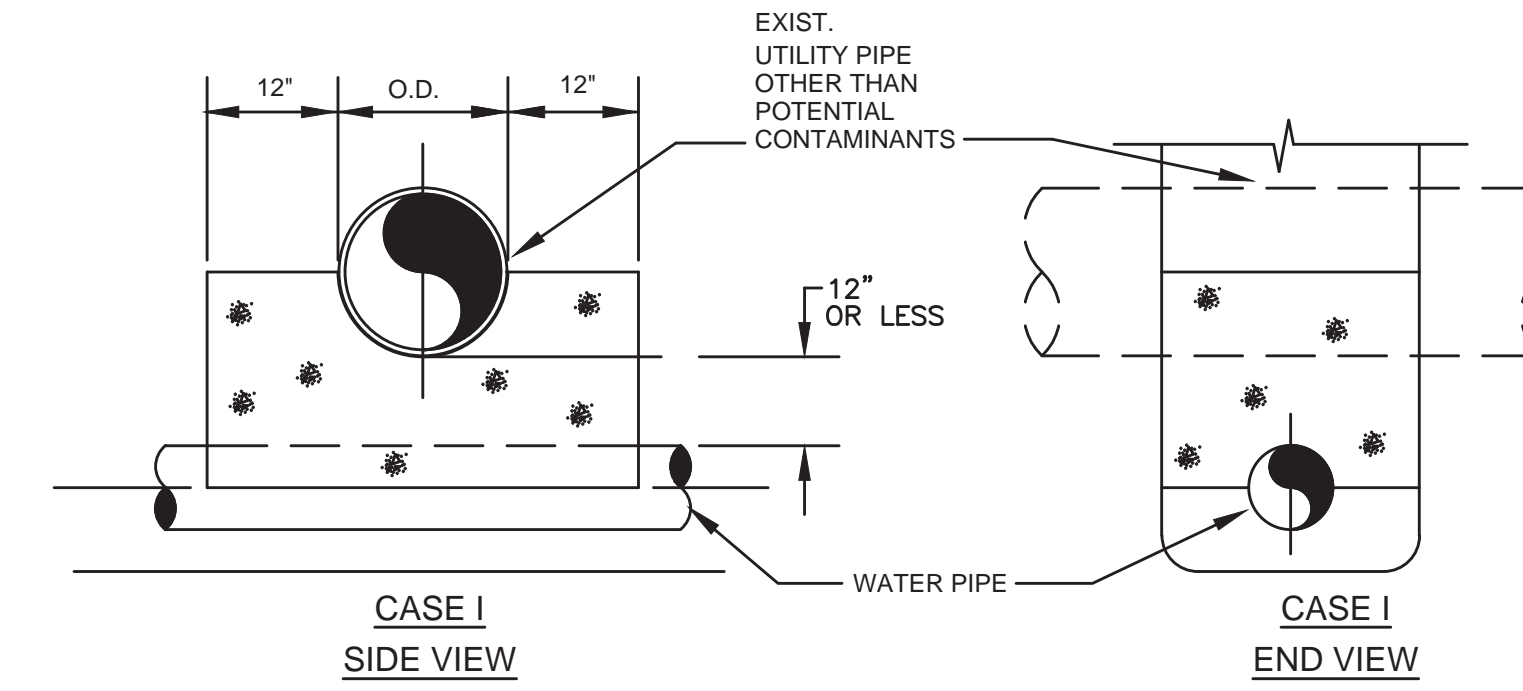
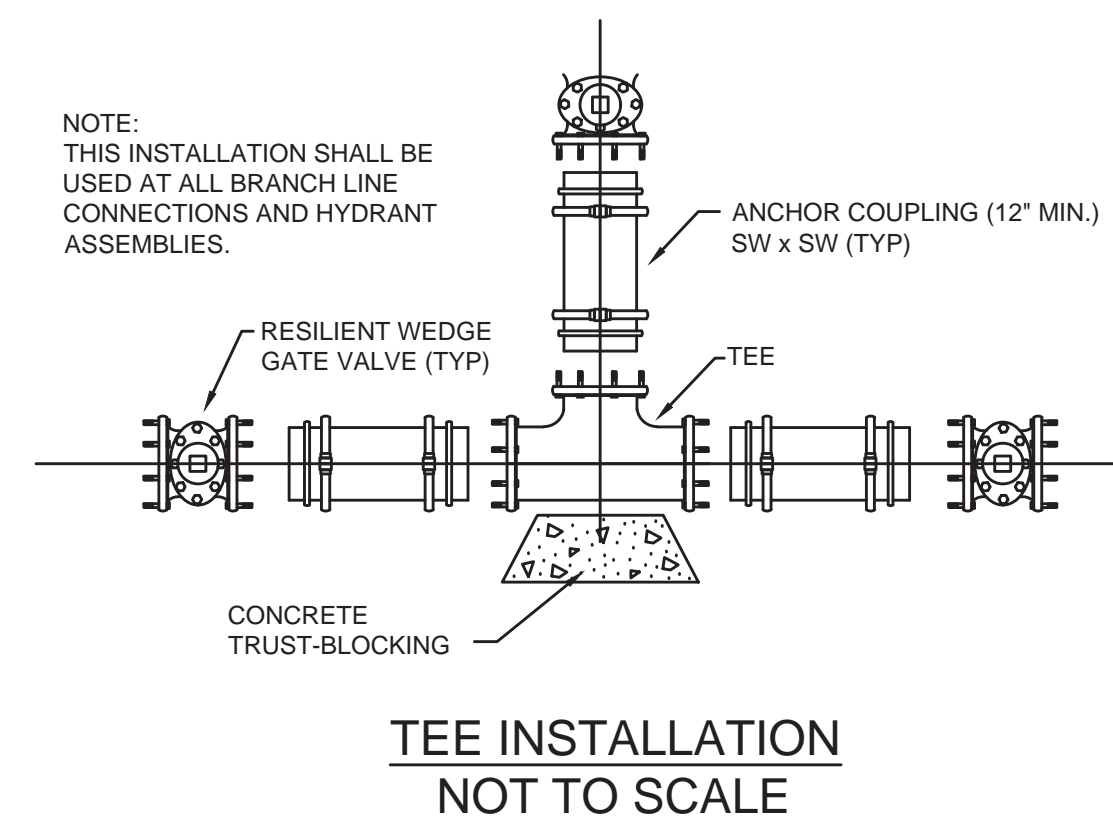
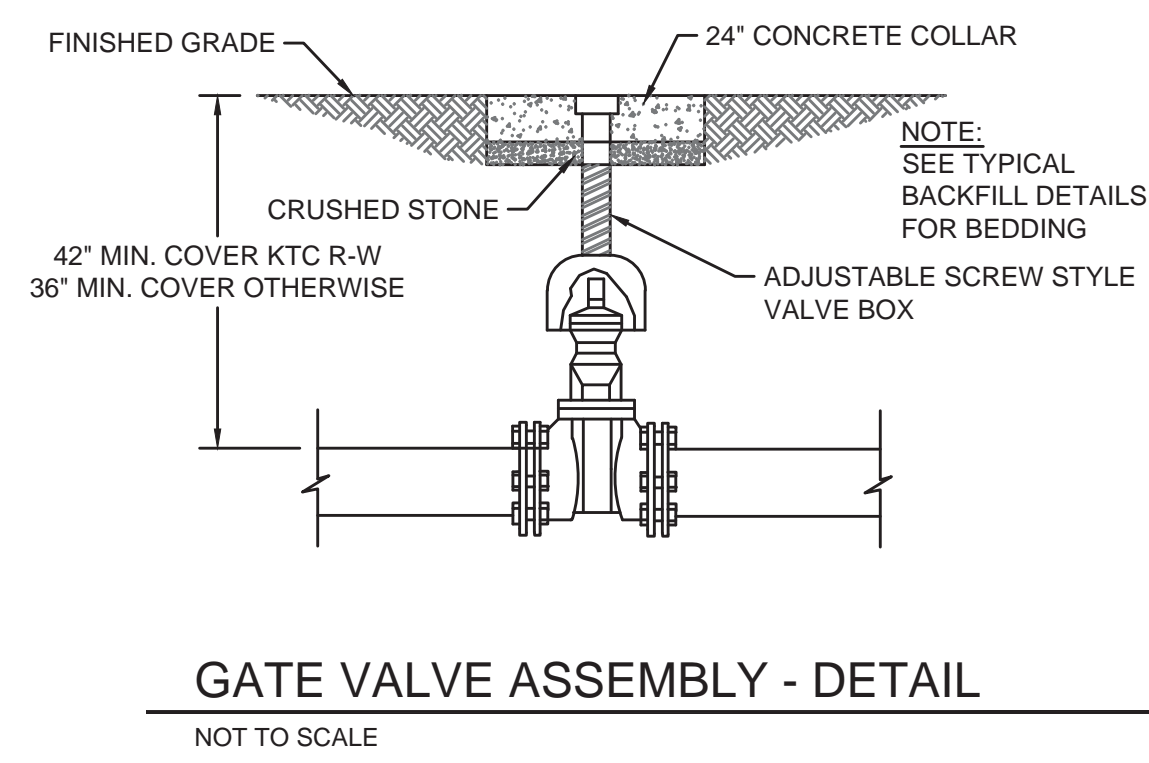


- NOTE:**
- SEE PLAN SHEETS FOR SIZE, MATERIAL & LOCATION OF PIPE.
 - SIDES OF ALL TRENCHES TO BE UNDISTURBED SOIL.
 - SEE THIS SHEET FOR BACK FILL DETAILS.
 - DEPTH "D" MAY NOT BE SMALLER THAN SPECIFIED.
 - PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 - PLACE CONCRETE ANCHORS 25' C/C.

PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/2° BEND				TEE & DEAD ENDS				
	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE			
4"	3.750	.21	18	30	1.750	.10	18	18	1.000	.06	18	12	12	.500	.02	12	12	6	2.250	.13	18
6"	7.000	.39	18	42	3.750	.21	18	30	2.000	.11	18	24	12	1.000	.04	12	12	5.000	.28	18	
8"	12.250	.91	24	42	7.500	.56	24	36	4.000	.30	24	24	24	2.000	.11	18	24	9.000	.67	24	
10"	20.000	1.48	24	60	10.500	.78	24	42	6.000	.44	24	36	24	3.000	.17	18	24	14.000	1.04	24	
12"	30.000	2.78	30	72	15.750	1.46	30	54	7.500	.69	30	36	30	4.000	.30	24	24	20.000	1.85	30	
14"	39.000	4.33	36	78	20.000	2.22	36	60	10.500	1.17	36	42	36	6.000	.56	30	36	27.500	3.06	36	
16"	49.000	6.35	42	84	27.500	3.56	42	66	14.000	1.81	42	48	42	7.500	.83	36	30	37.750	4.63	42	

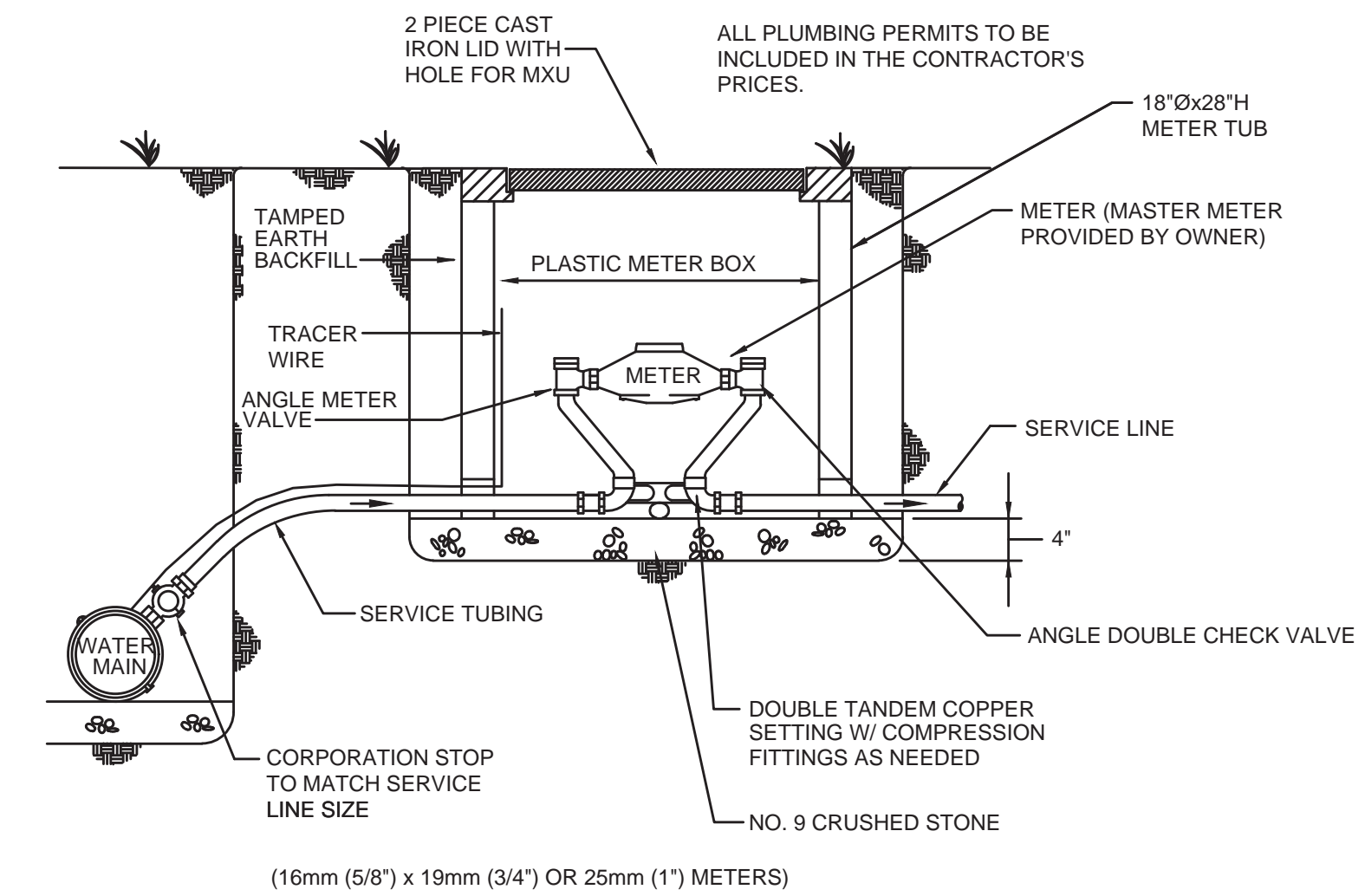
SOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF

THRUST BLOCKING & CONCRETE ANCHORS - DETAIL
NOT TO SCALE



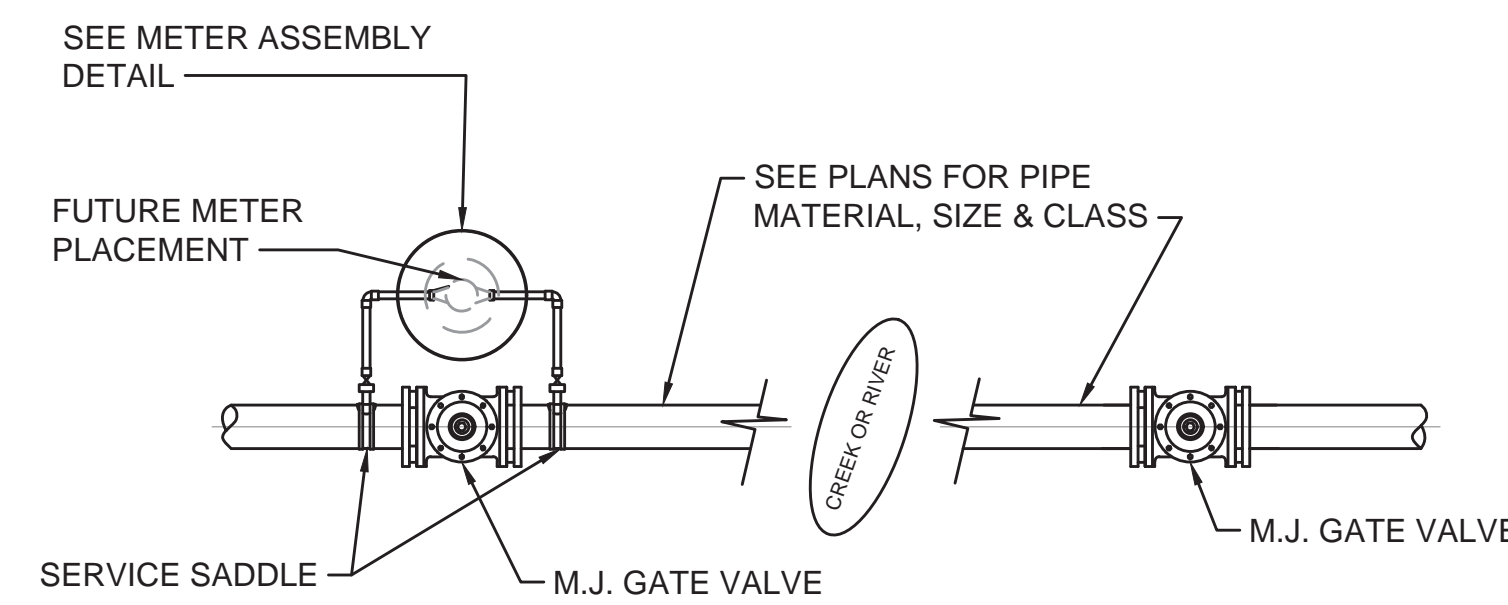
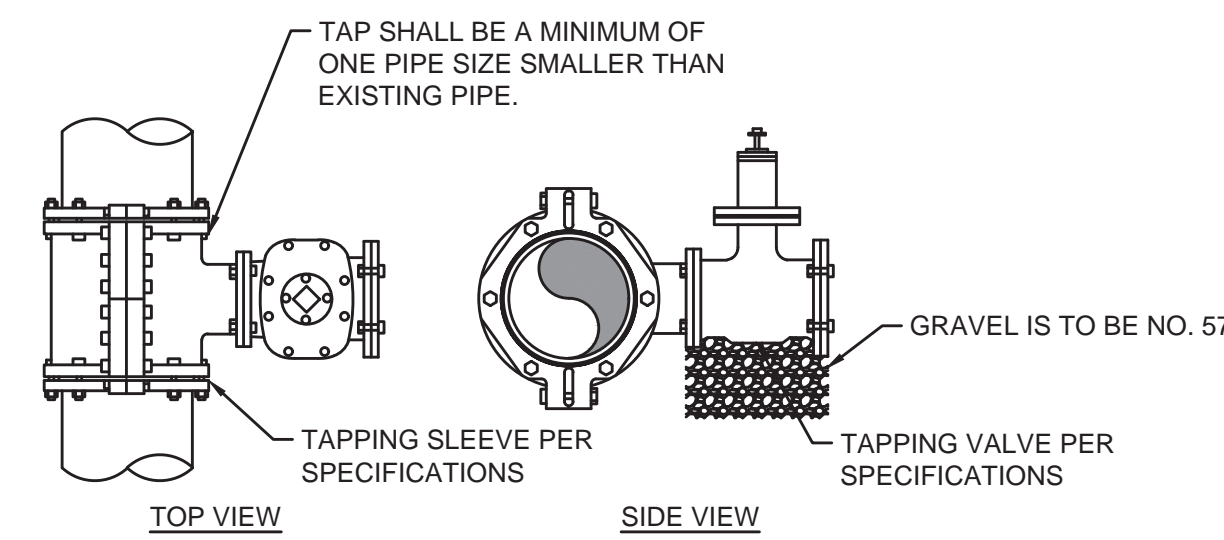
- NOTES:**
- CONCRETE SEPARATOR SHALL BE USED WHEN CLEARANCE BETWEEN WATER LINE AND UTILITY PIPE IS 12" OR LESS.
 - "UTILITY PIPE" INCLUDES UNDERGROUND WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS, STORM SEWER OR TYPICALLY NON-CONTAMINATING FACILITIES. WHEN CROSSING SANITARY SEWER OR POTENTIAL CONTAMINANTS SEE DETAIL "WATER/SANITARY SEWER CROSSING".

UTILITY CROSSING CONCRETE SEPARATOR
NOT TO SCALE



- NOTES:**
- ALL EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

TYPICAL SERVICE CONNECTION
NOT TO SCALE



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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

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DATE: OCTOBER 2019
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DRAWN BY: WCM
CHECKED BY: PBR

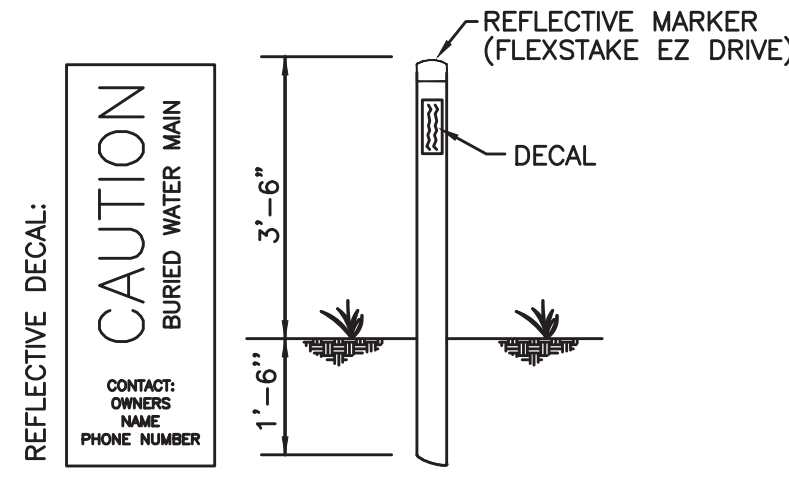


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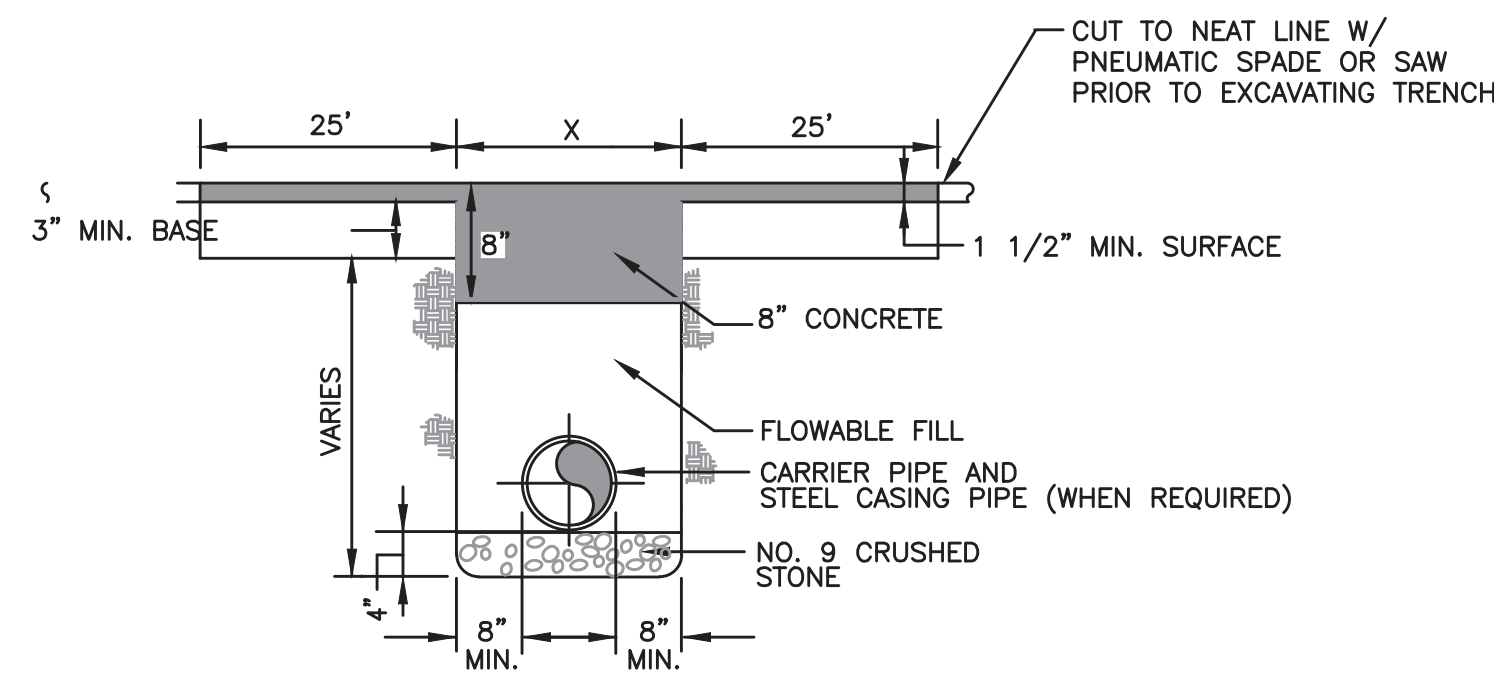
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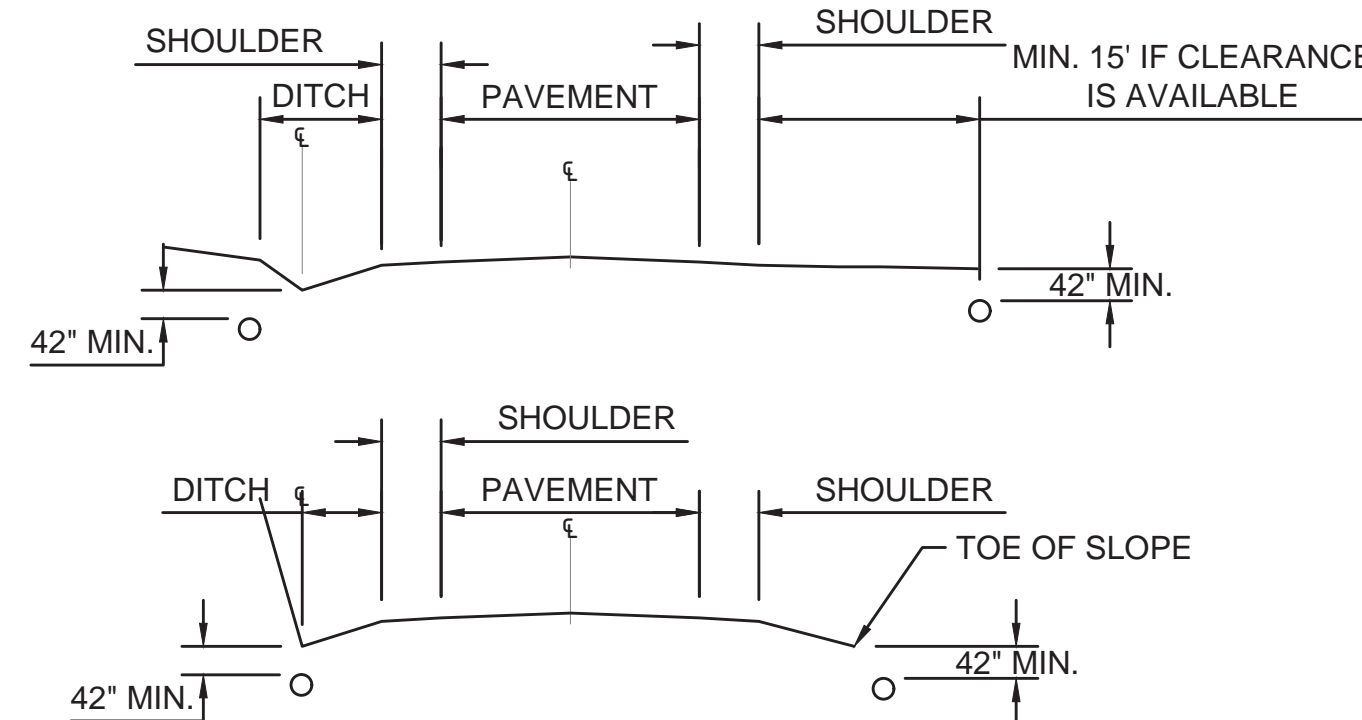
NOTE:
WATER MARKERS SHALL BE PLACED WHENEVER A ROAD CROSSING IS MADE AT EACH SIDE OF THE ROAD AND AT EACH VALVE OR SET OF VALVES.



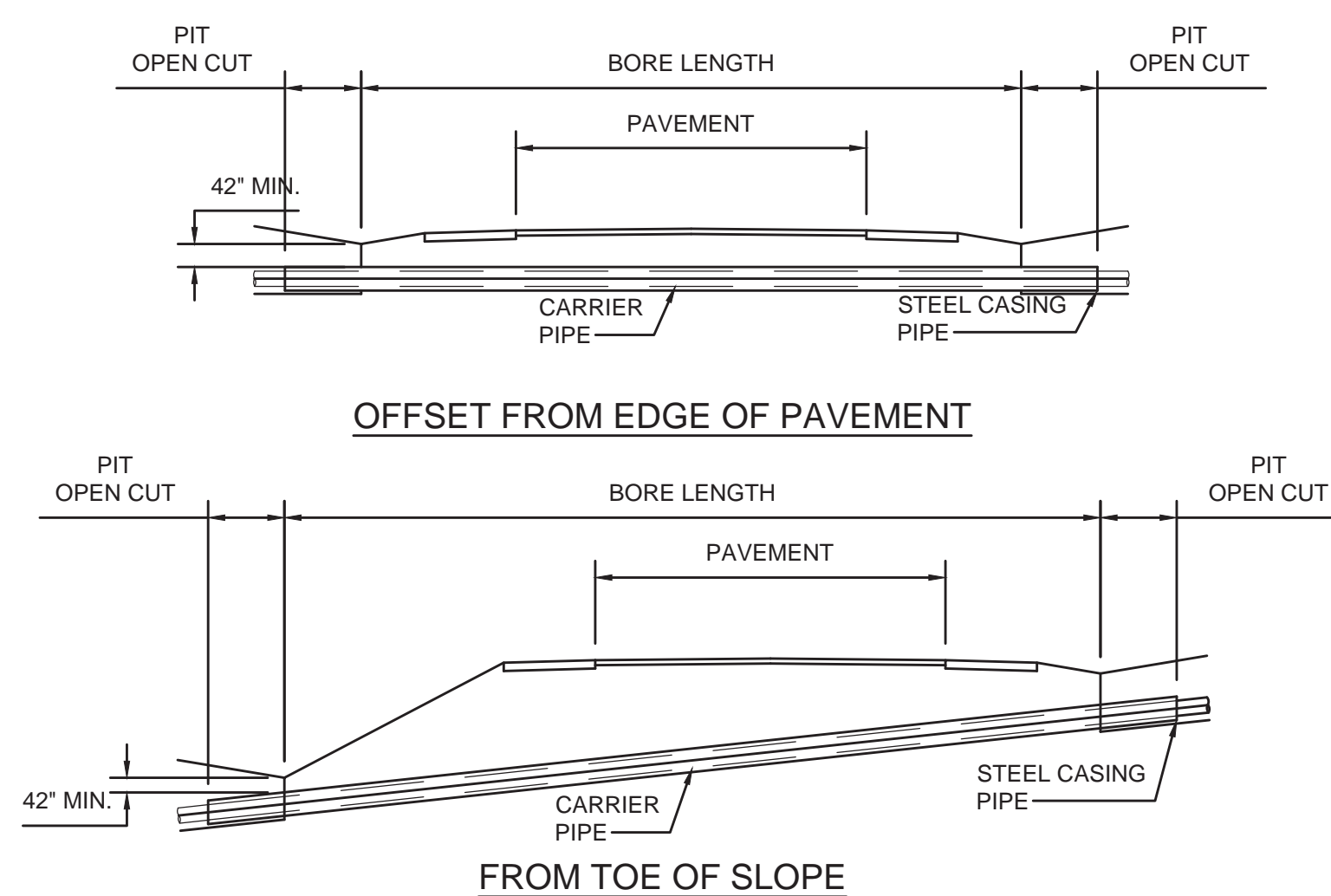
WATER MARKER DETAIL
NOT TO SCALE



OPEN CUT DRIVEWAY BACKFILL REQUIREMENTS
NOT TO SCALE



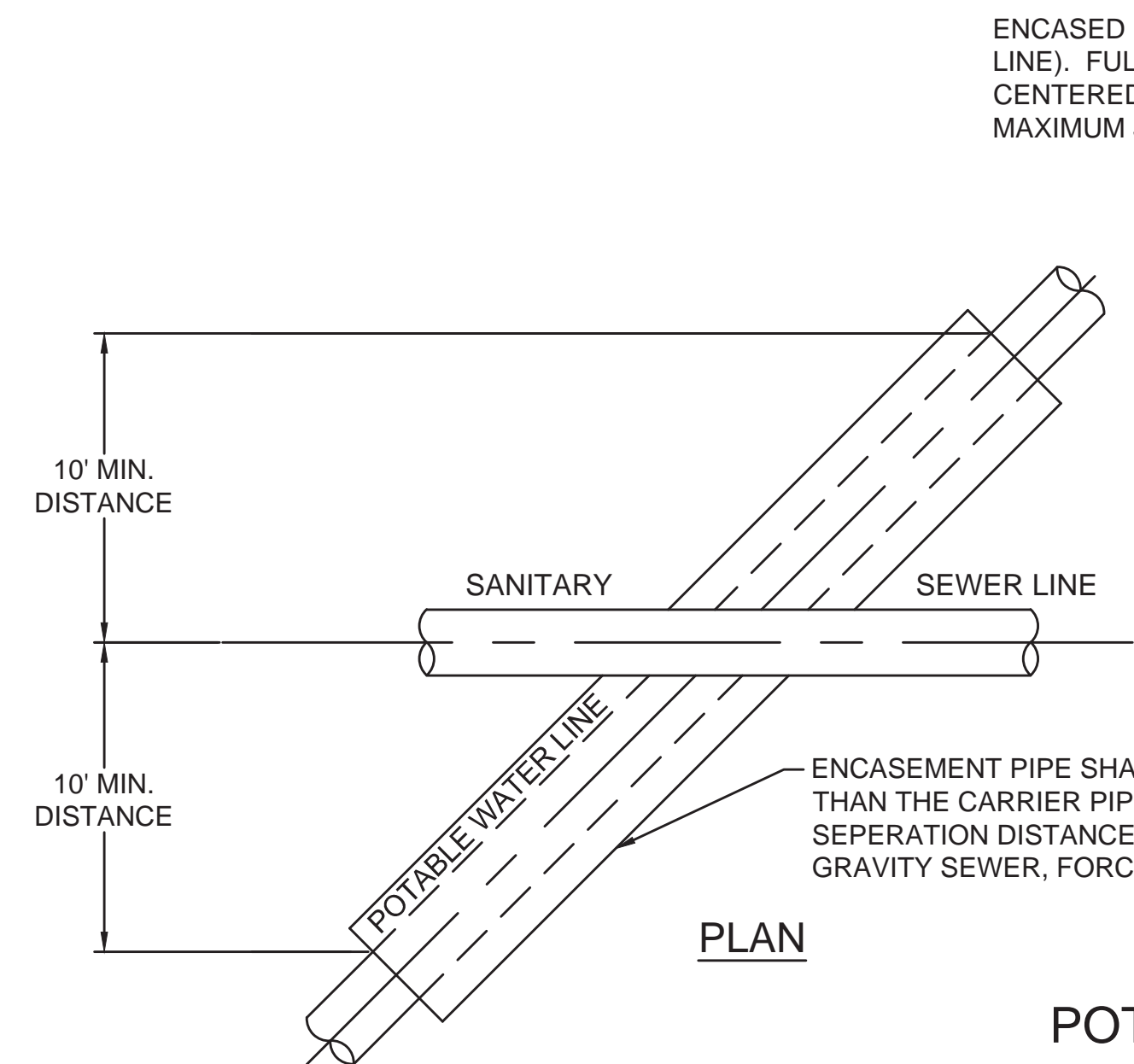
UTILITY PIPELINE WITHIN KTC ROW - DETAIL
NOT TO SCALE



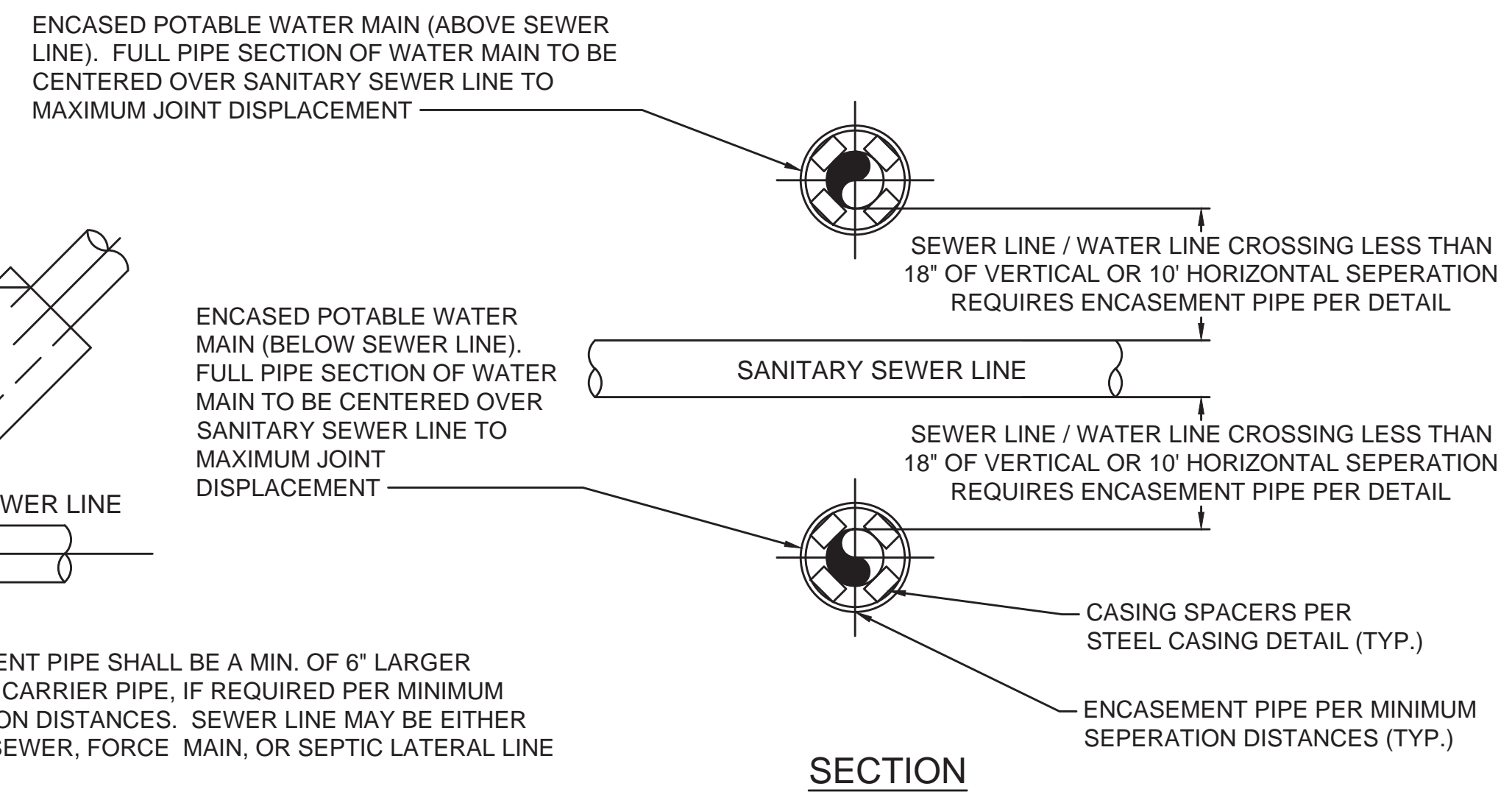
DETAIL - KTC CROSSING
NOT TO SCALE

NOTE:

- ALL JOINTS OF STEEL CASING SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
- MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
- OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY THE SPECIFICATIONS.
- HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES WALL THICKNESS & DIAMETER PER SPECIFICATIONS. ALL BORED AND JACKED ENCASEMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THEN THE OUTSIDE DIA-METER OF THE ENCASEMENT PIPE.
- SEE CASING SPACER DETAIL FOR PLACEMENT OF SPACER.

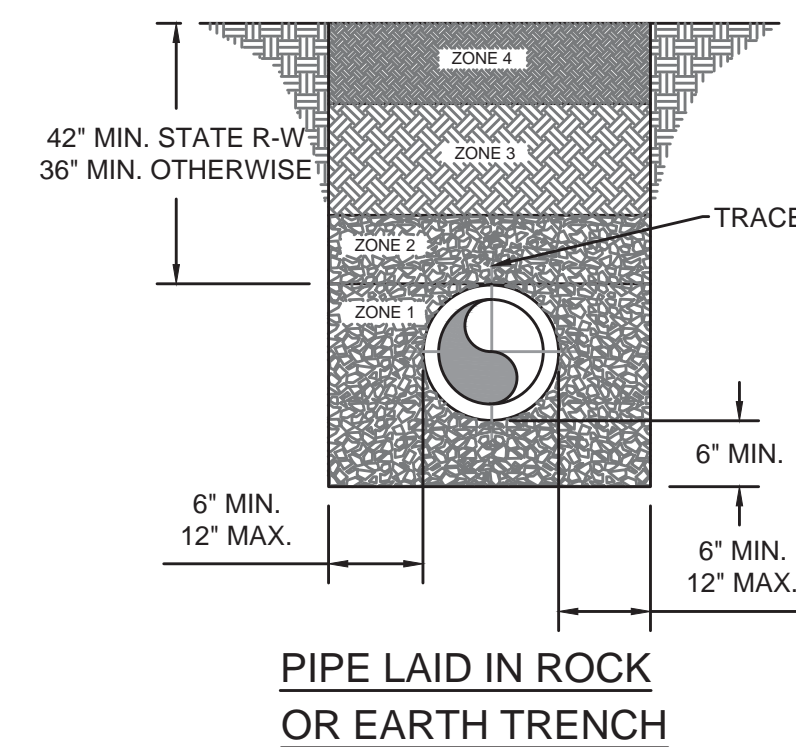


PLAN



SECTION

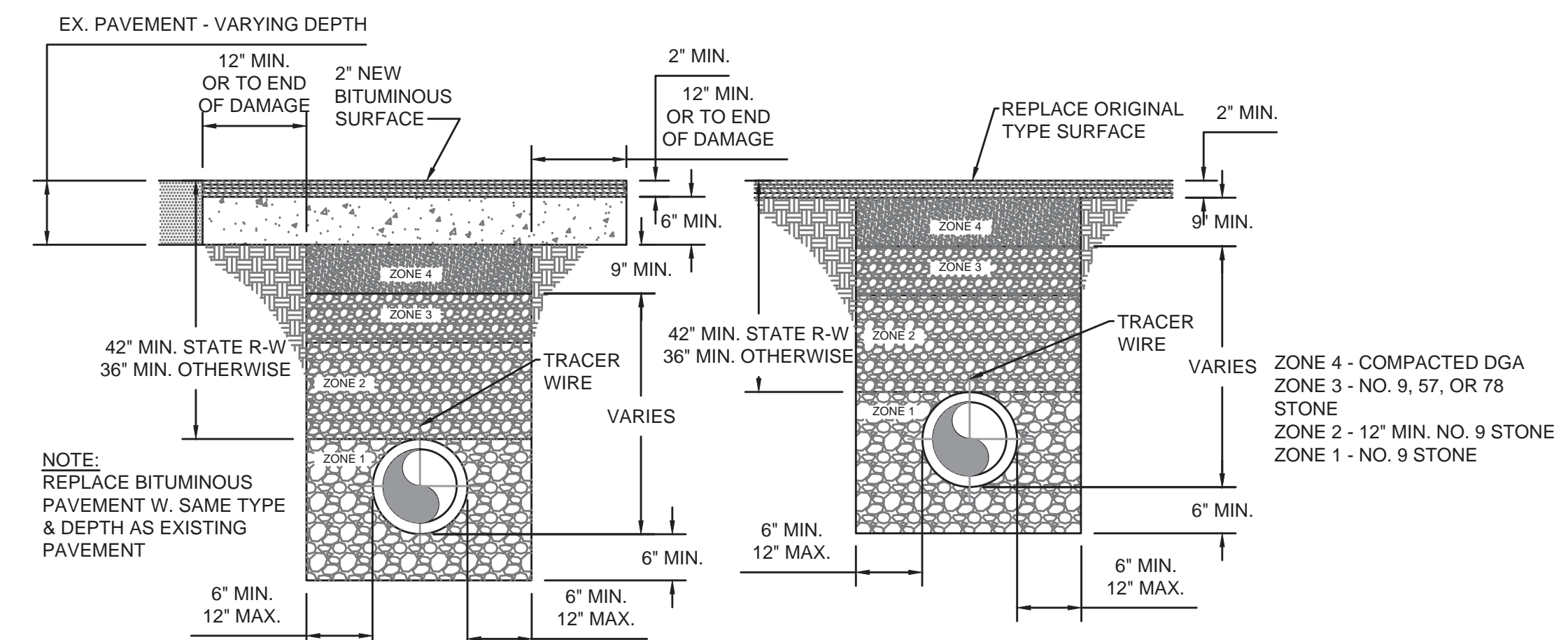
POTABLE WATER LINE & SEWER LINE CROSSING - DETAIL
NOT TO SCALE



PIPE LAID IN ROCK OR EARTH TRENCH

NOTE:

- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
- ZONE 4 - 6" MIN. CONSOLIDATED EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
- ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE
- ZONE 2 - FROM THE SPRINGLINE OF THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC.
- ZONE 1 - BEDDING MATERIAL, IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS, DEBRIS OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.



ORIGINAL BITUMINOUS SURFACING OVER 2"

ORIGINAL BITUMINOUS SURFACING 2" OR LESS AND TRAFFIC BOUND MACADAM

DETAIL - BACKFILL
NOT TO SCALE

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