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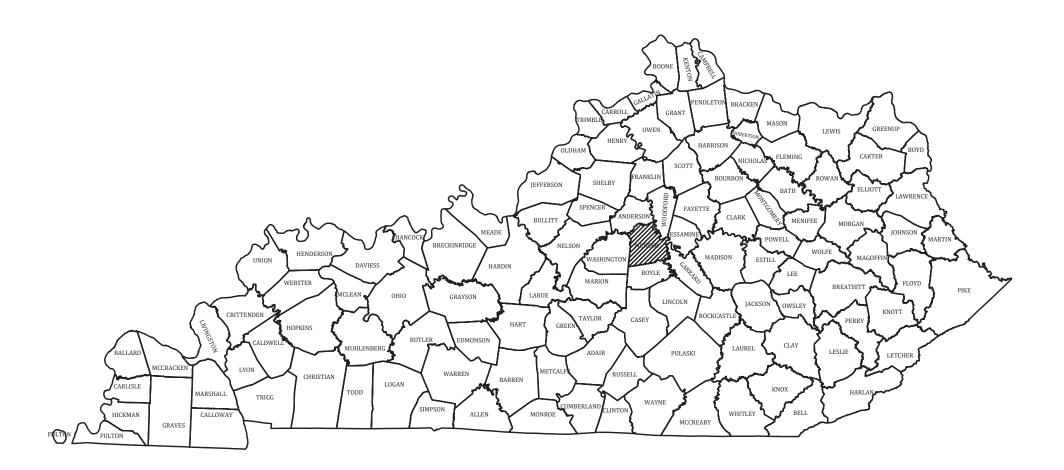
2019 WATER SYSTEM IMPROVEMENTS NORTH MERCER WATER DISTRICT CONTRACT 2B

MAY 2021

PREPARED BY:



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



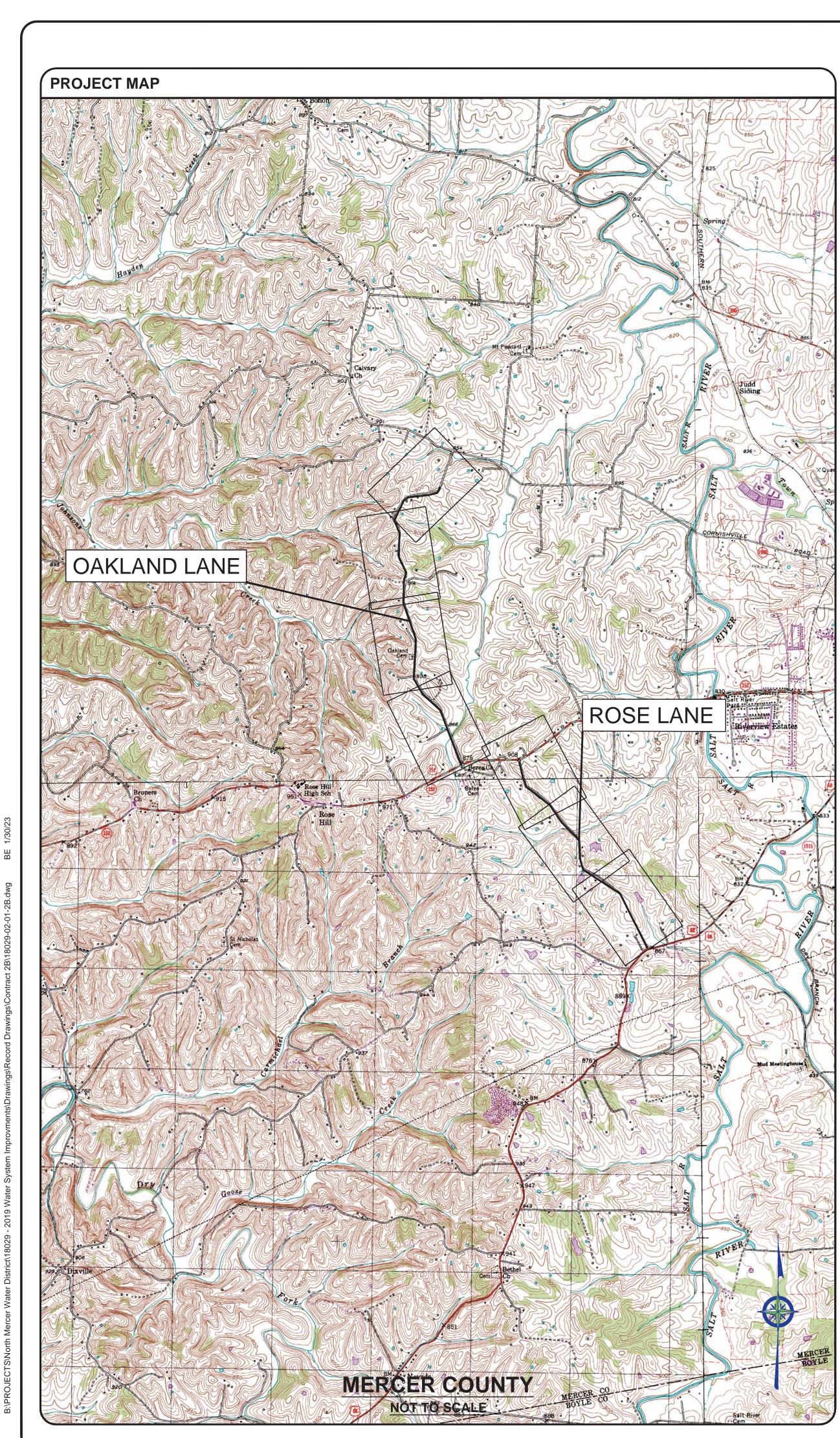
RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWINGS SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE, THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: <u>BLUEGRASS ENGINEERING, PLLC</u> DATE: <u>XX/XX</u>



PROJECT NO. 18029



This drawing has been prepared at the scale indicated. Reproduction of this drawing M4 Introduce inaccuracies of the listed scale. The graphic scale bar shall be used to determine th Actual scale.

> IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER T FROM BLUEGRASS ENGINEERING, PLLC AND ACTING UNI \PROJECTS\North Mercer Water District\18029 - 2019 Water Svstem Improvments\Drawings\Record Drawings\Contract 2B\18029-02-01-2B.dwg BE 1/30/23

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 ENCASEMENT. 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 <u>APPROXIMATE LOCATION</u>. 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 NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHER WISE 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 SUSTITUTED 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:
- A. 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.
- B. 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 LOOPED 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.

INAL CLEANUP AND RESTORATION

JNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, <u>CLEANUP OF DISTURBED AREAS SHALL BE</u> <u>(EPT CURRENT WITH CONSTRUCTION</u> AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO ONGER 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 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.

DRAWING INDEX

<u>SHT. NO.</u>	DESCRIPTION:
	COVER
01	PROJECT MAP, EXISTING UTILITIES, LEGEND AND DRAWING INDEX
02 - 05	AERIAL PLAN - OAKLAND LANE
06 - 08	AERIAL PLAN - ROSE LANE
09 - 11	STANDARD DETAILS - WATER MAIN

LEGEND

	- NEW WATER MAIN								
—— w ——	— EXISTING WATER MAIN								
	- EXISTING SANITARY SEWER								
G	 EXISTING GAS MAIN 								
	 EXISTING FORCE MAIN 								
WAT	⊢ NEW STEEL CASING								
·	 EXISTING CULVERT 								
	NEW FLUSHING HYDRANT								
	EXISTING FLUSHING HYDRANT								
W.M. M	EXISTING WATER METER								
8	NEW GATE VALVE & BOX								
0	EXISTING MANHOLE								

EXISTING UTILITIES



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

NOTE:

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: XX/XX

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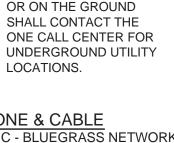
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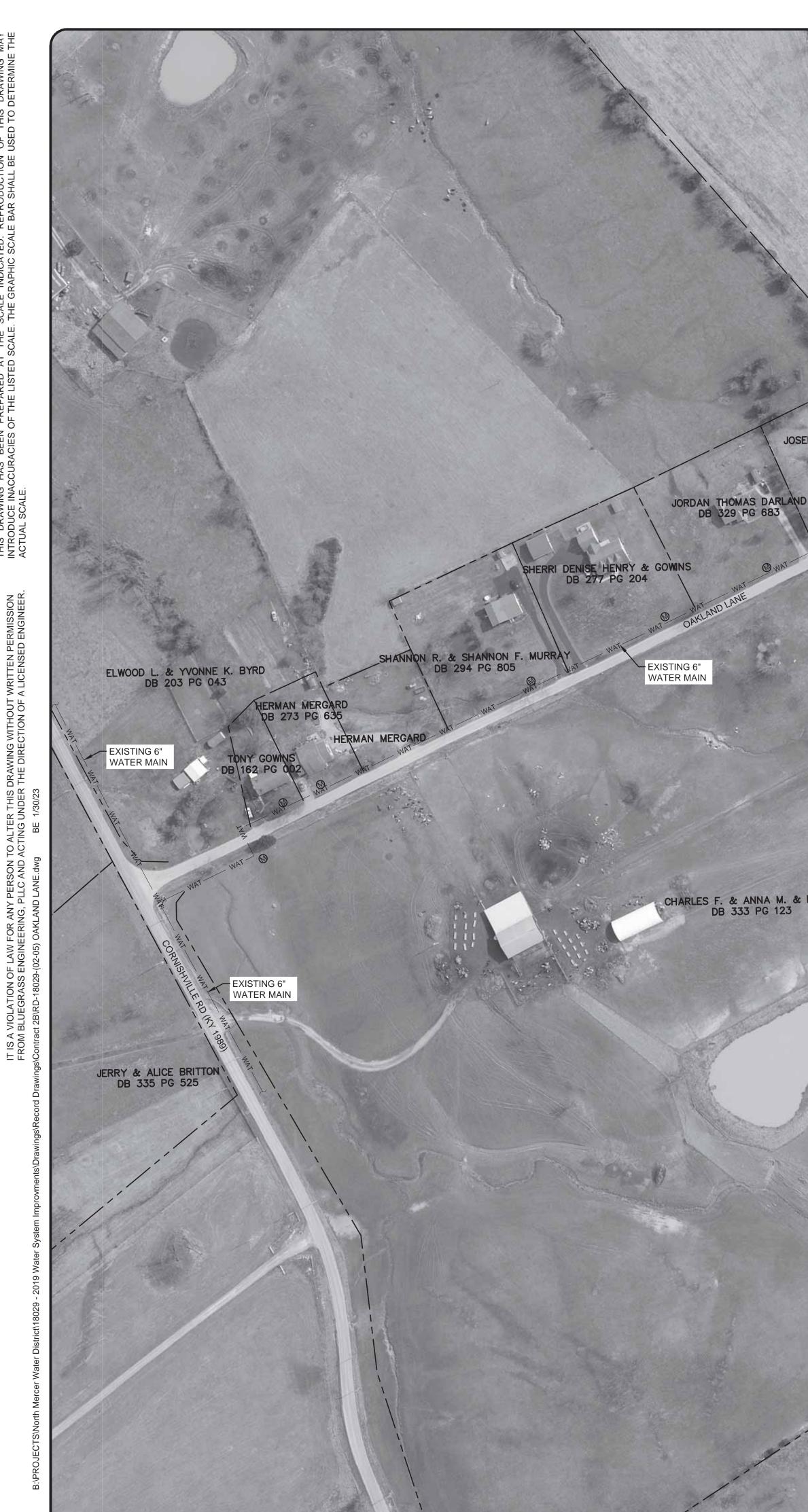
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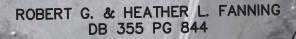
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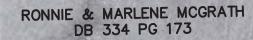
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CLAYTON & BRENDA BAXTER DB 168 PG 063





EXISTING PRESSURE REDUCING VALVE 3"

CLAYTON & BRENDA BAXTER DB 170 PG 002

JASON B. WATKINS DB 346 PG 660

STA. 10+00 6" TAPPING SLEEVE & 6" VALVE W/ BOX

- CUT & PLUG

NEW 6" PVC WATER MAIN, SDR-21, CL. 200

CHARLES F. & ANNA M. & BAKER DB 333 PG 123

NOTE: 1¹/₄" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

CAUTION: FIBER OPTIC CABLE & BURIED TELEPHONE

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ $\frac{3}{4}$ " 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.

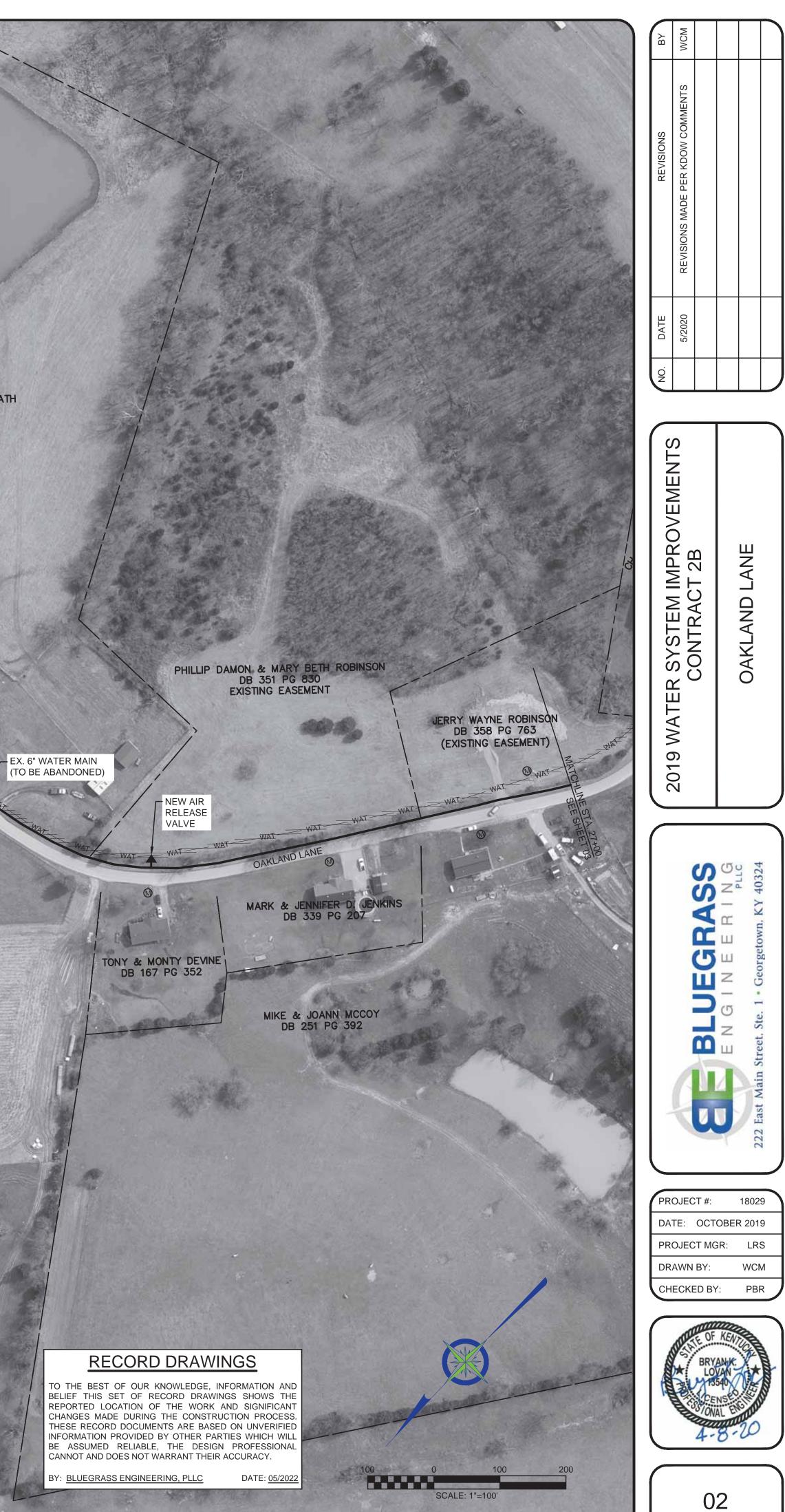
ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

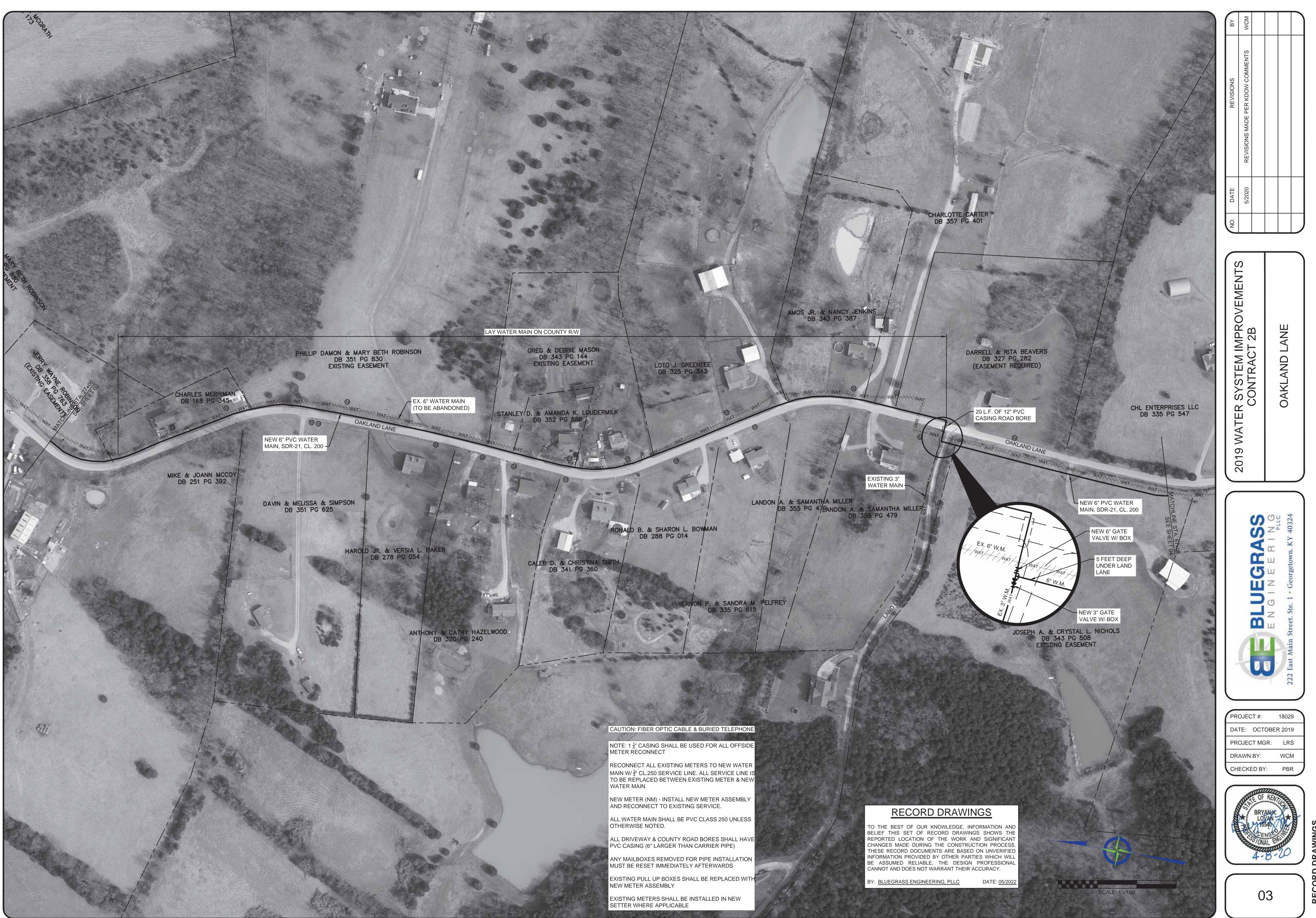
ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6" LARGER THAN CARRIER PIPE)

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





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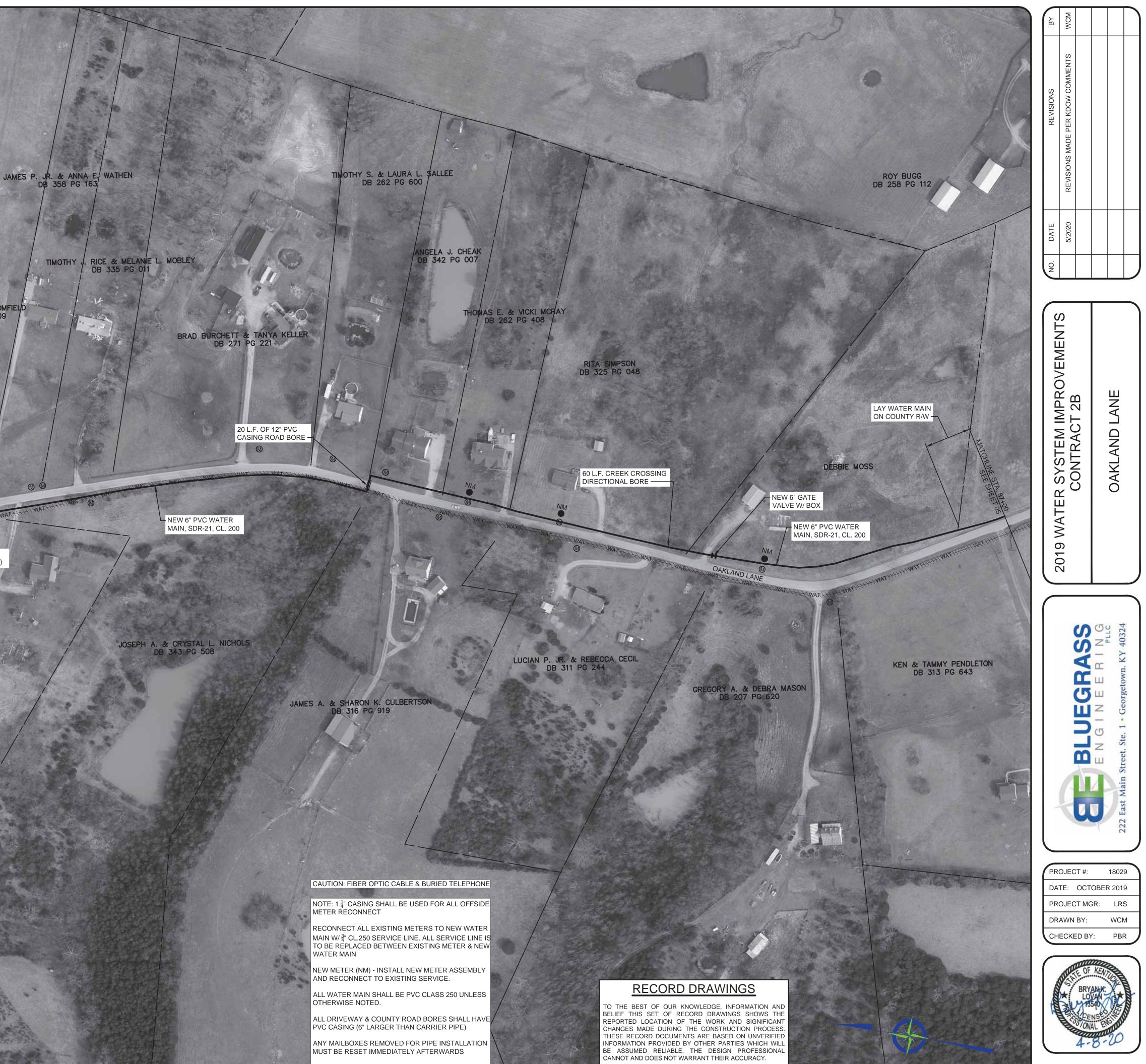
BEEN RACIES

RON & ALICIA BLOOMFIELD DB 352 PG 509 GLEN & BARBARA CULBERTSON DB 320 PG 405 CHL ENTERPRISES LLC DB 335 PG 547 OAKLAND LANE EX. 6" WATER MAIN (TO BE ABANDONED) LYNN & CAROLYN H. KIRCHNER DB 257 PG 101 (EXISTING EASEMENT)

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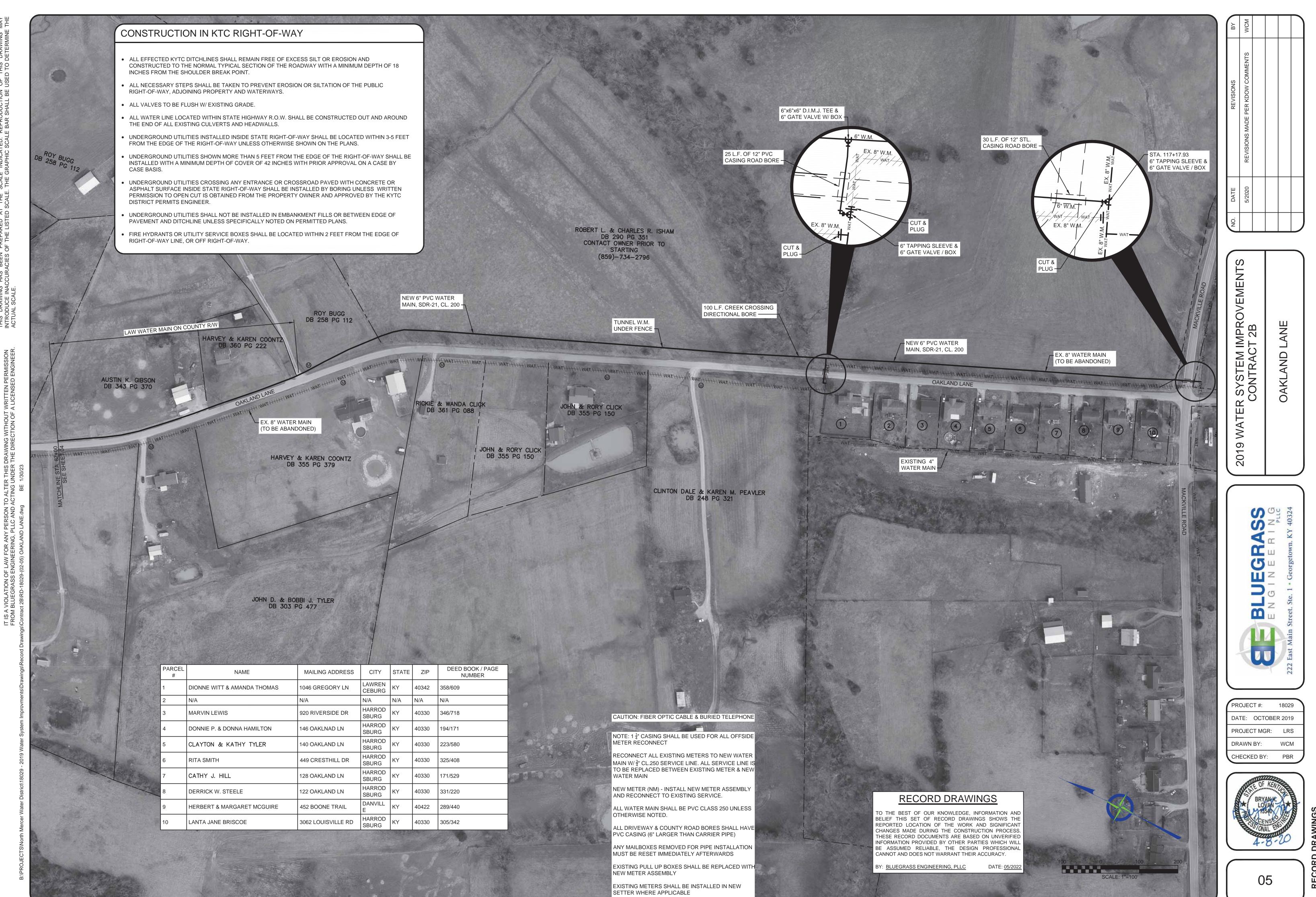
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BLUEGRASS ENGINEERING, PLLC

DATE: <u>05/2022</u>

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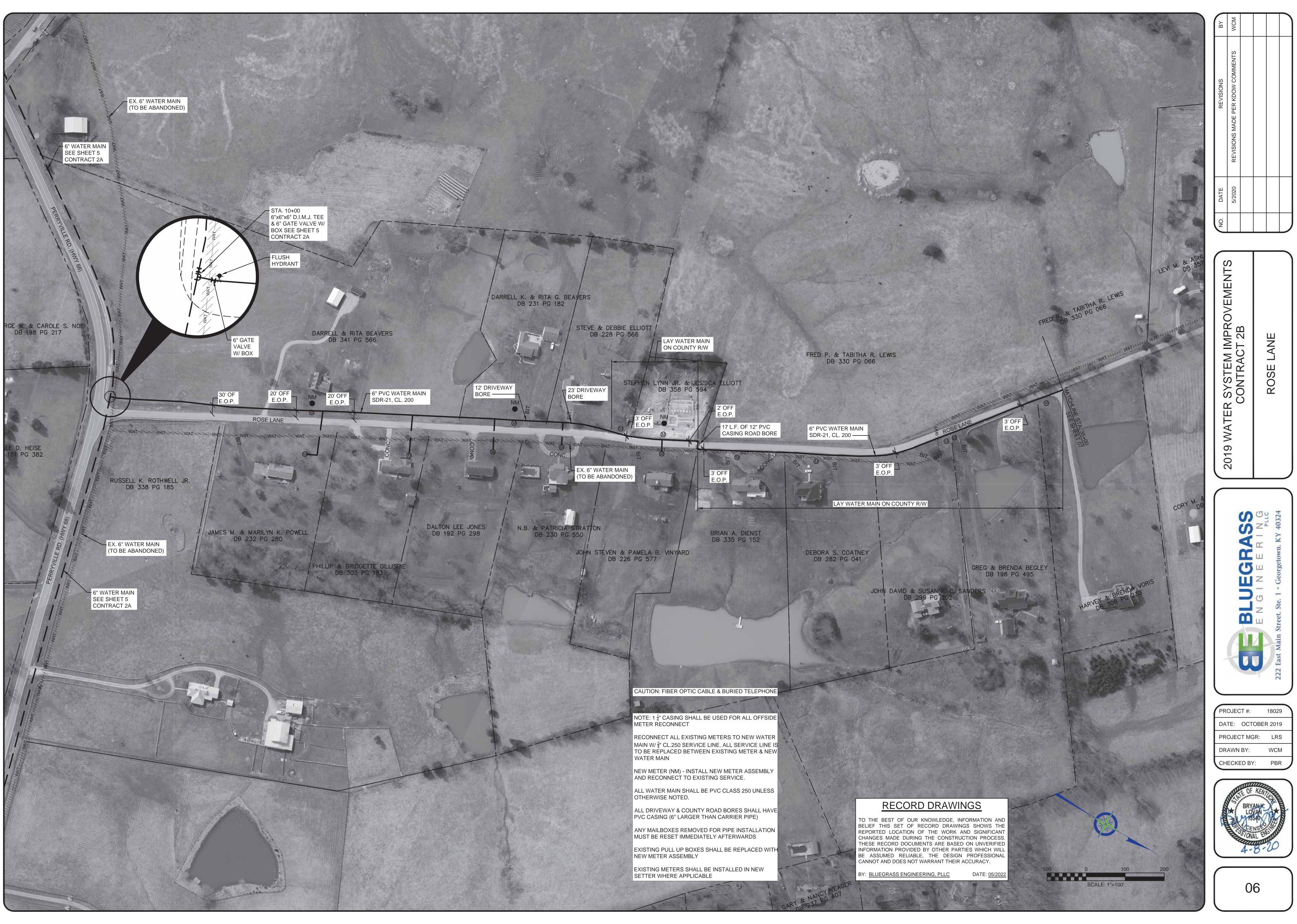


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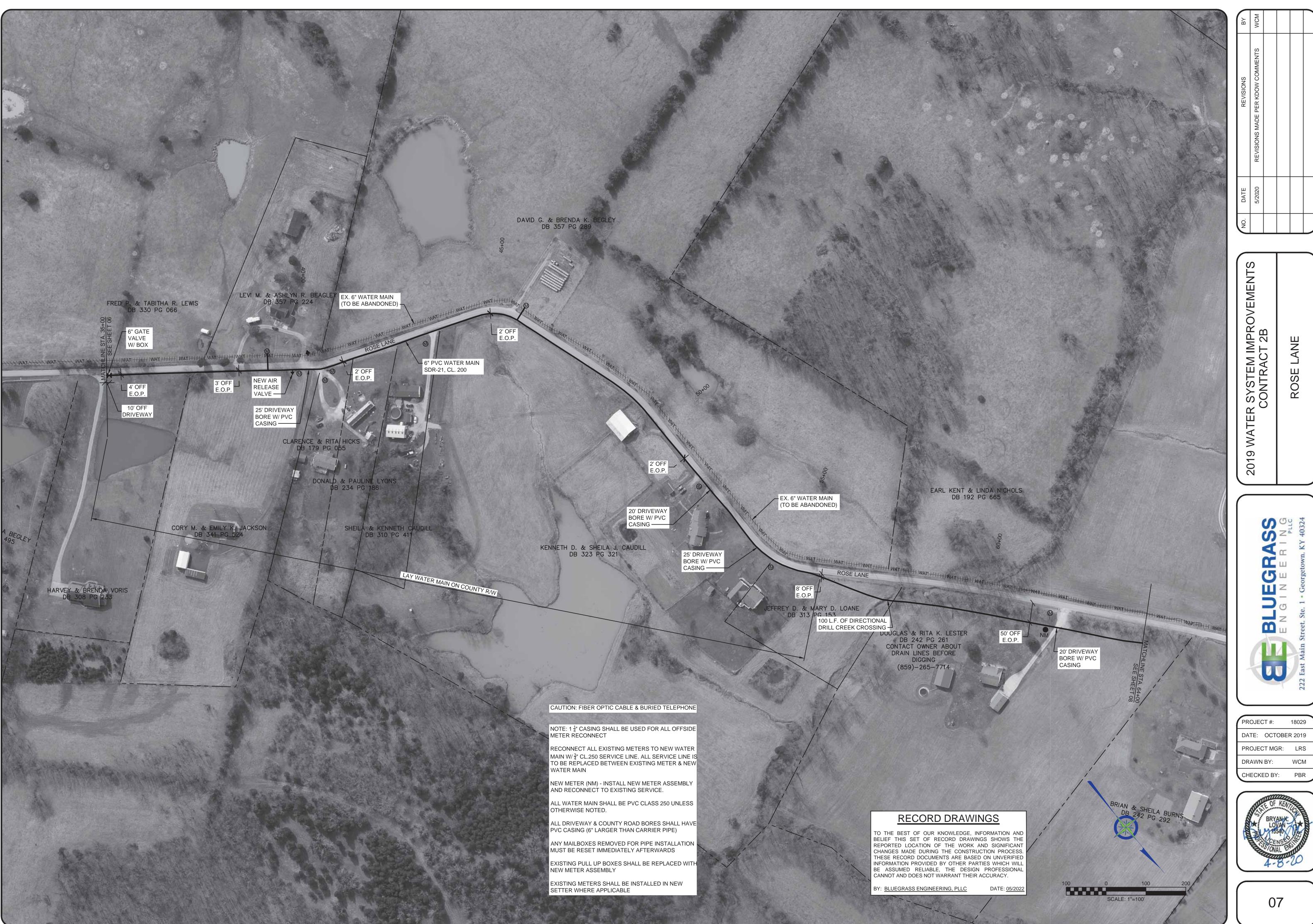
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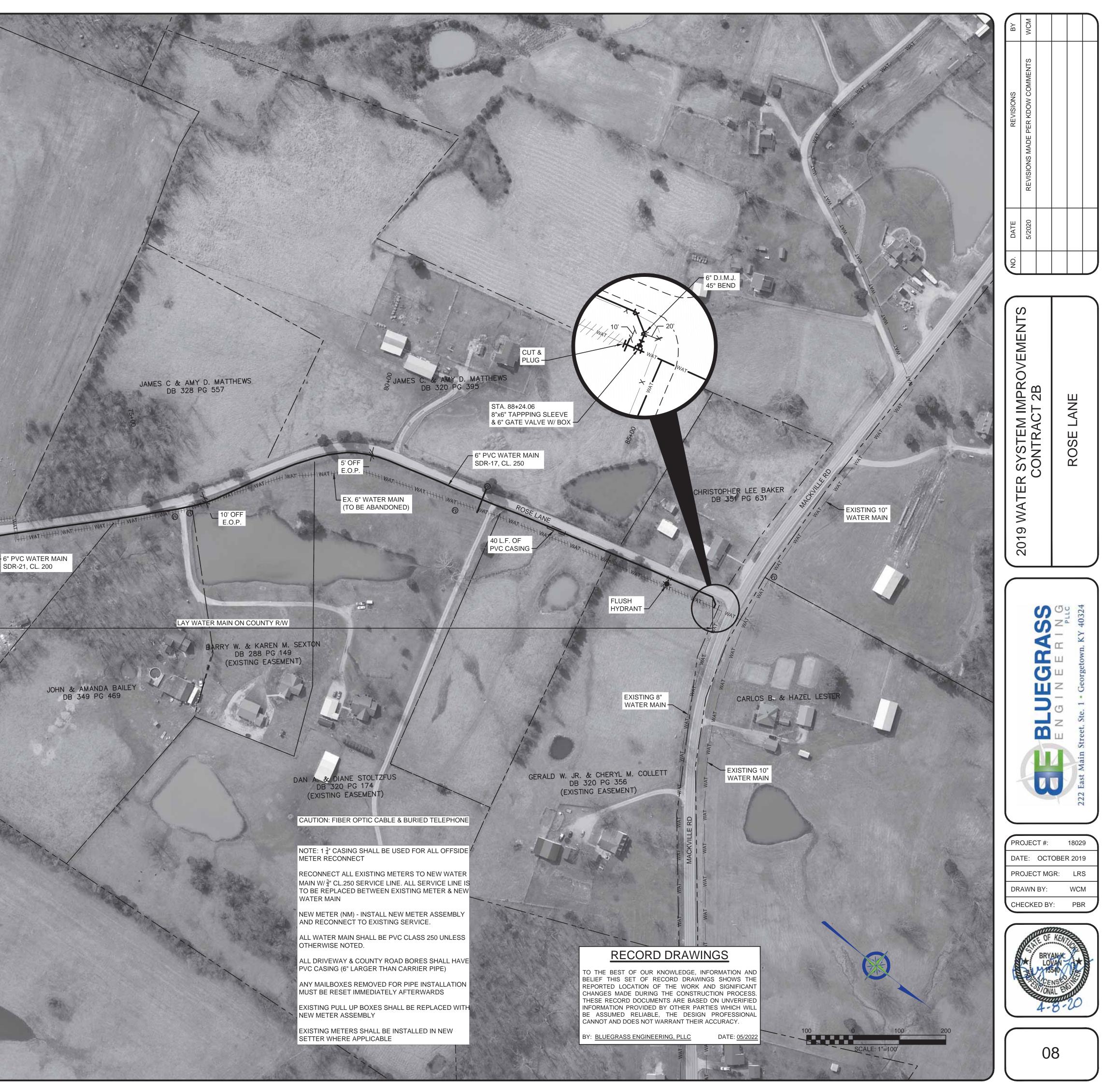
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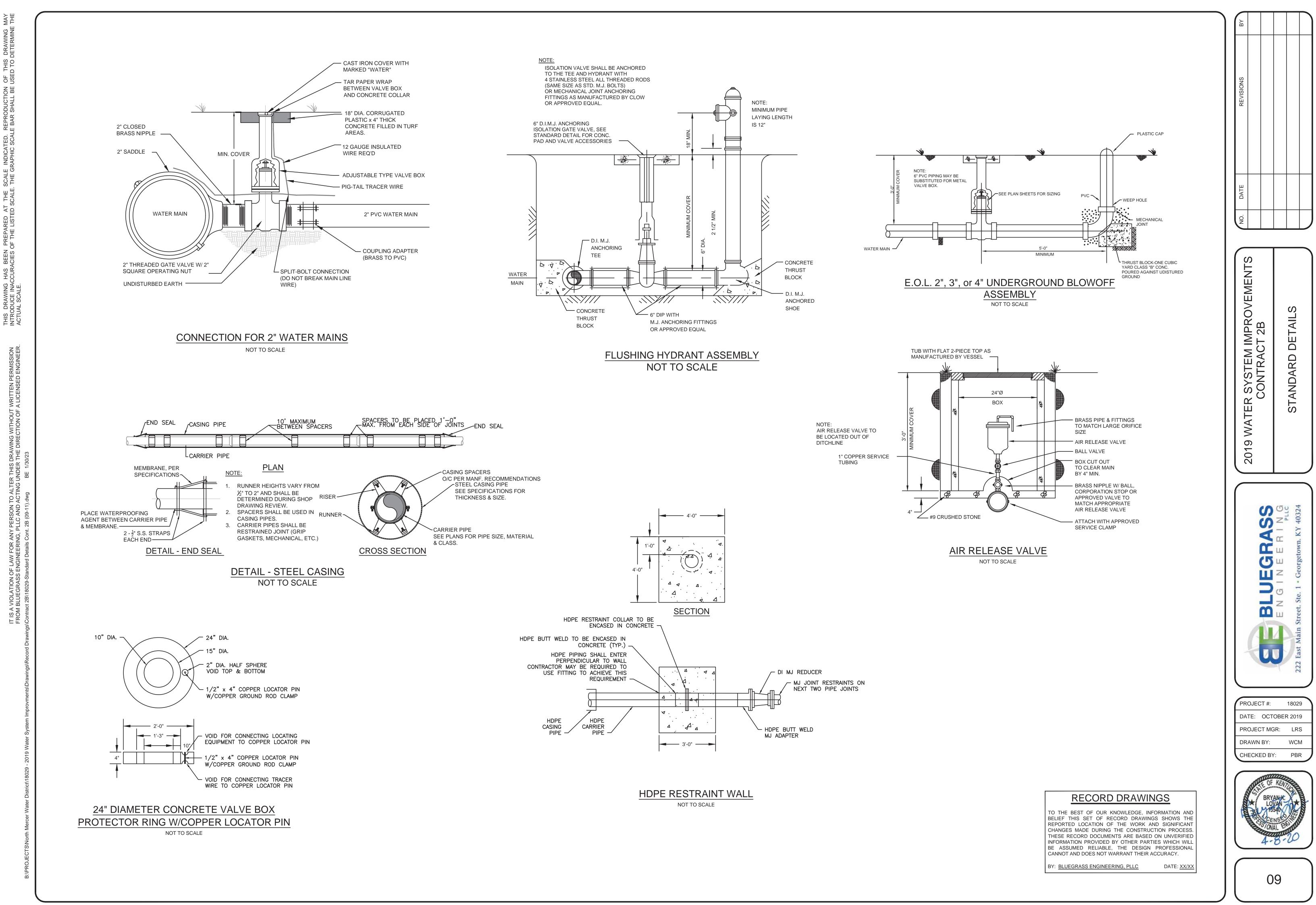


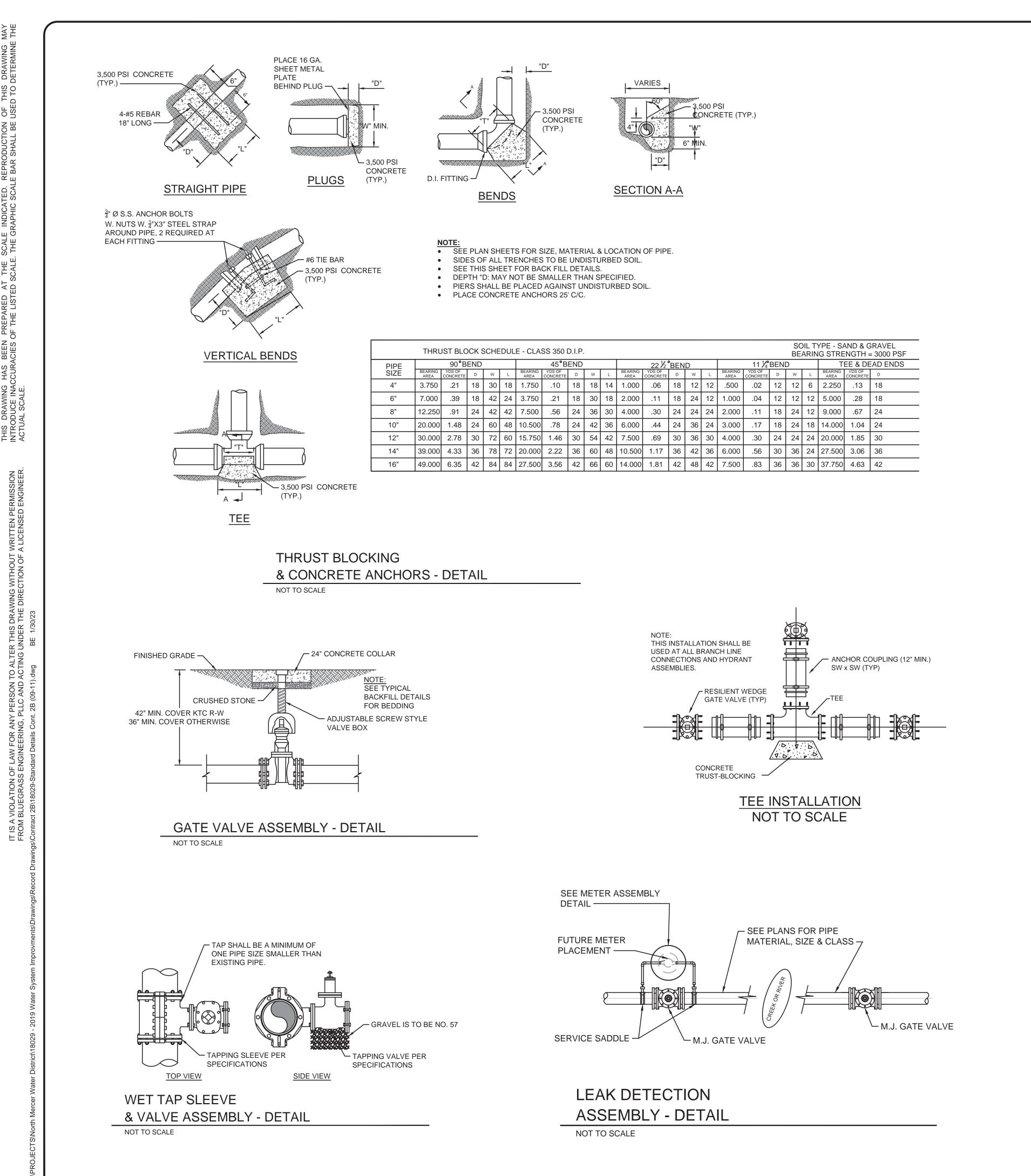
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EARL KENT & LINDA NICHOLS DB 192 PG 665 EX. 6" WATER MAIN (TO BE ABANDONED) -1 WATH+ WAT ++++++ WAT ++++++ WAT ++++++ ROSE LANE 4' OFF E.O.P. 4' OFF 15' DRIVEWAY BORE -----WALTER & BETTY MARCUM DB 344 PG 767 BRIAN & SHEILA BURNS DB 242 PG 292

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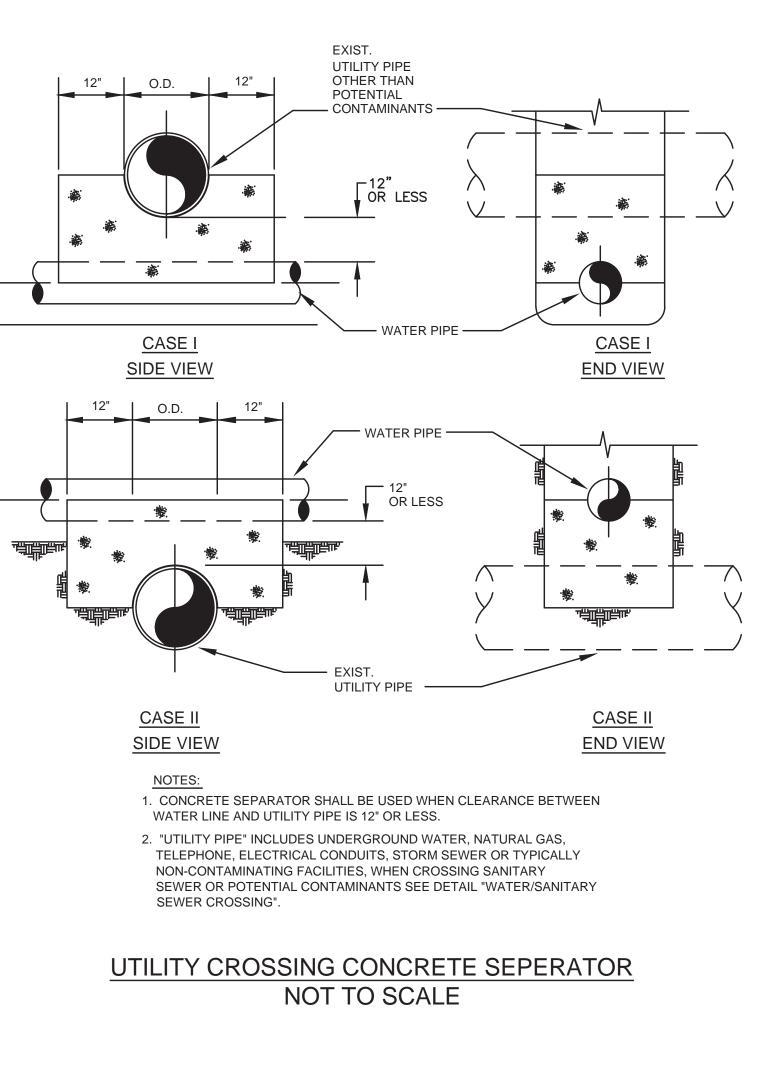


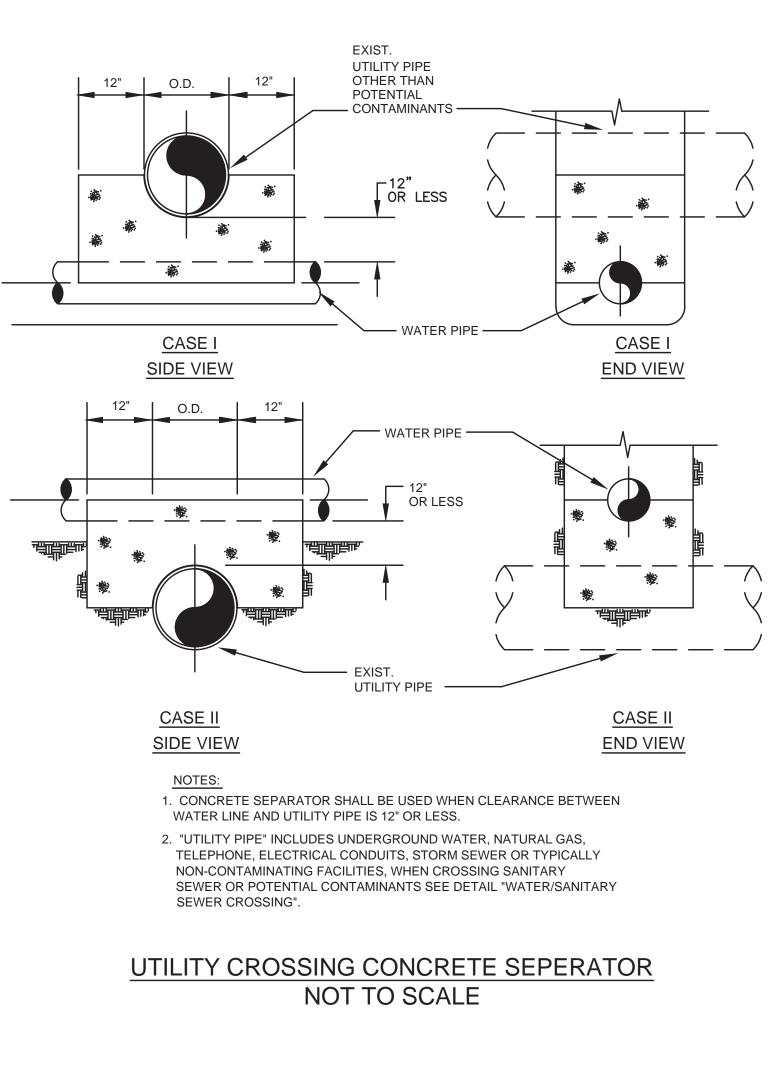


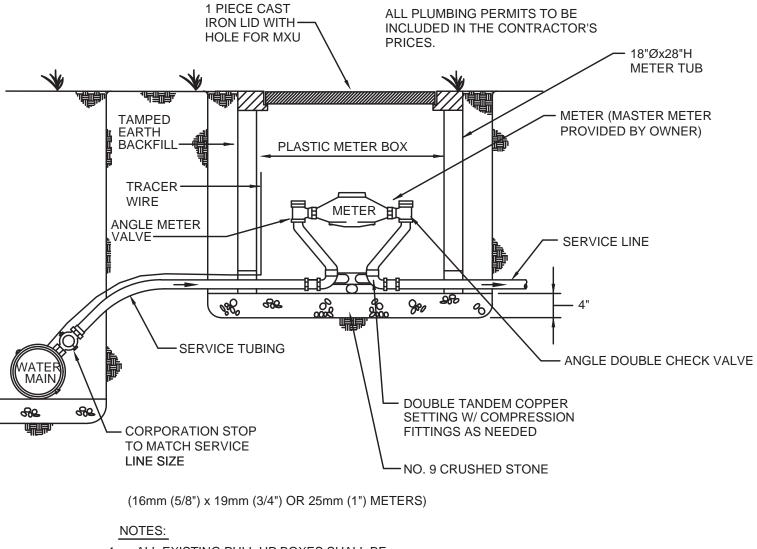


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OF RETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D
0	18	18	14	1.000	.06	18	12	12	.500	.02	12	12	6	2.250	.13	18
1	18	30	18	2.000	.11	18	24	12	1.000	.04	12	12	12	5.000	.28	18
6	24	36	30	4.000	.30	24	24	24	2.000	.11	18	24	12	9.000	.67	24
8	24	42	36	6.000	.44	24	36	24	3.000	.17	18	24	18	14.000	1.04	24
6	30	54	42	7.500	.69	30	36	30	4.000	.30	24	24	24	20.000	1.85	30
22	36	60	48	10.500	1.17	36	42	36	6.000	.56	30	36	24	27.500	3.06	36
6	42	66	60	14.000	1.81	42	48	42	7.500	.83	36	36	30	37.750	4.63	42







1. ALL EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

TYPICAL SERVICE CONNECTION NOT TO SCALE

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