

PHASE 11 WATER SYSTEM IMPROVEMENTS

CONTRACT 1 - WATER MAIN EXTENSIONS

FOR

RATTLESNAKE RIDGE

WATER DISTRICT

CARTER COUNTY, KENTUCKY

BOARD MEMBERS

BILL GILBERT - CHAIRMAN
 RANDY STEAGALL
 GEORGE WELLS
 STEVE ISON
 MIKE COPLEY

GENERAL MANAGER

W. C. GILBERT

NOVEMBER, 2017

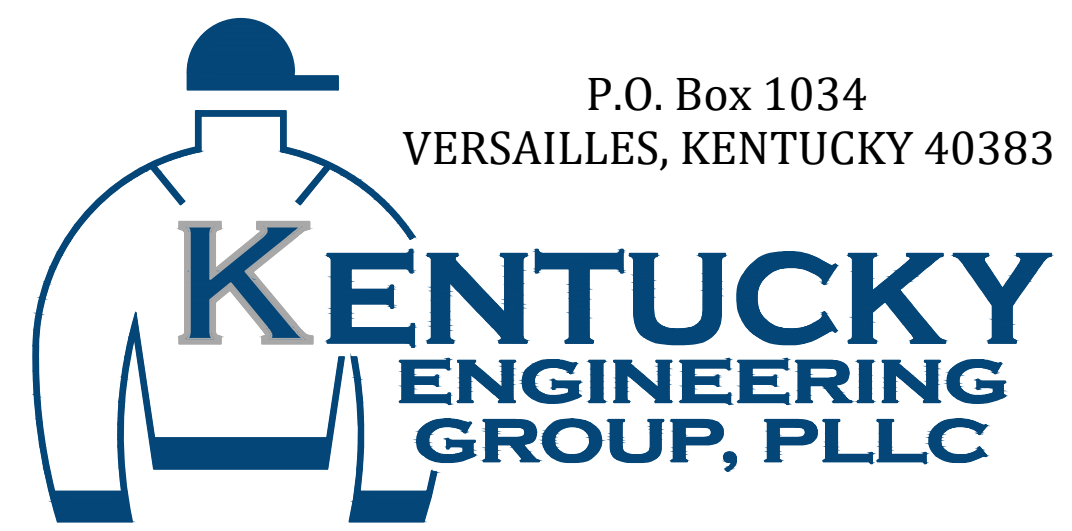
RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING 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: BLUEGRASS ENGINEERING, PLLC DATE: 01/20

RECORD DRAWINGS

PROJECT NO. 15036



	NO.	DATE	REVISIONS	BY
		JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

B:\PROJECTS\Rattlesnake Ridge WD\18020-Phase 11 Water System Improvements\Drawings\Record Drawings\Contract 1\RD 15036-01-00.dwg KEG 6/30/20

RECORD DRAWINGS

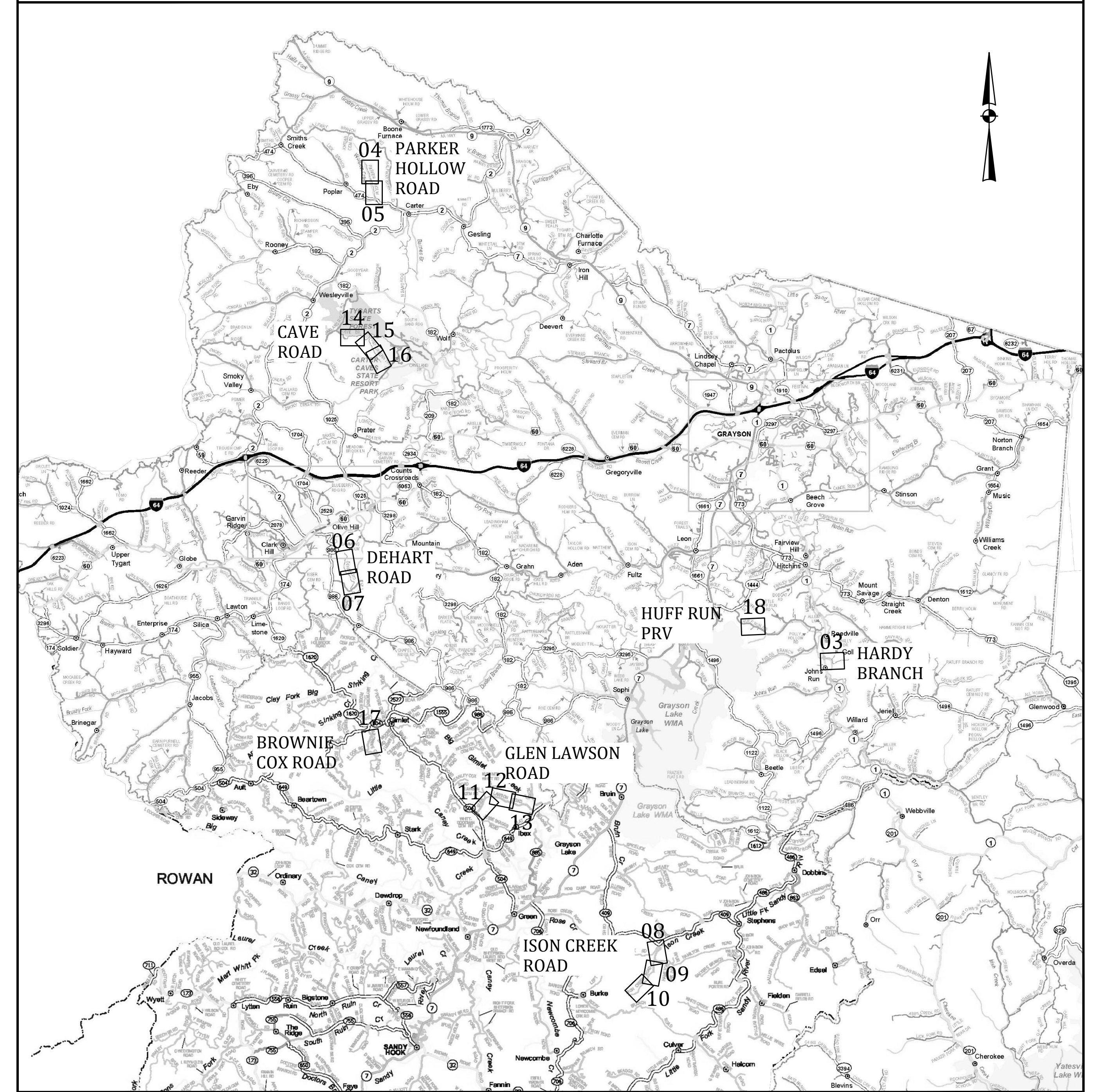
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1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

SHEET LOCATION MAP



INDEX OF DRAWINGS

SHT. NO.	DESCRIPTION:
-	COVER
01	SHEET LOCATION MAP, INDEX OF DRAWINGS, UTILITIES and LEGEND
02	GENERAL NOTES
03	HARDY BRANCH ROAD
04-05	PARKER HOLLOW ROAD
06-07	DEHART ROAD
08-10	ISON CREEK ROAD
11-13	GLEN LAWSON ROAD
14-15	CAVE ROAD
16	BROWNIE COX ROAD
17	HUFF RUN PRV
18-19	STANDARD DETAILS

LEGEND

EXISTING	PROPOSED	DESCRIPTION
PVC	PVC	POLYVINYL CHLORIDE
DIP	DIP	DUCTILE IRON PIPE
WM	WM	WATER MAIN
⊕	⊕	HYDRANT ASSEMBLY
⊕	⊕	FLUSHING/BLOWOFF ASSEMBLY
△	▲	AIR RELEASE VALVE (ARV)
⊗	⊗	GATE VALVE (GV)
---	---	WATER MAIN (WM)
---	---	SPECIAL CROSSING OR CASING PIPE
---	---	WATER MAIN TO BE ABANDONED
---	---	RIGHT-OF-WAY LINE
---	---	CENTERLINE
---	---	PROPERTY LINE
OWNER	OWNER	EASEMENT ACQUIRED

UTILITIES

BUD - Before You Dig
1-800-752-6007
 or DIAL 811

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 DISTRICT

RATTLESNAKE RIDGE WATER DISTRICT

PHONE: 606-474-7570
 FAX: 606-474-8531

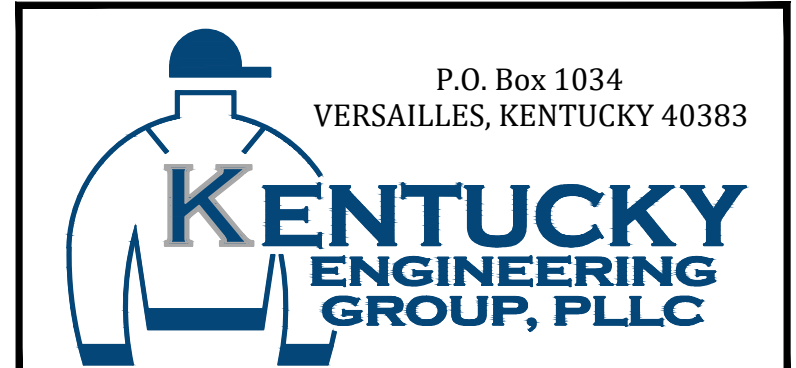
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IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE
RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
SHEET LOCATION MAP, LEGEND, UTILITIES and INDEX OF DRAWINGS

PROJECT NO.	15036
SHEET NO.	01

BID DOCUMENTS

WATER MAIN 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 NOT BEEN SHOWN. 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 36" 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 CONSTRUCTED 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.
- 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.

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.

GENERAL NOTES

- GENERAL PROJECT REQUIREMENTS** - IN THE EVENT OF A CONFLICT BETWEEN ANY PORTION OF THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- PROJECT COMMUNICATIONS / INSPECTION** - THE ENGINEER SHALL BE THE OWNER'S DESIGNATED SITE REPRESENTATIVE. ALL COMMUNICATION FROM THE CONTRACTOR AND TO THE CONTRACTOR, SHALL BE THROUGH THE ENGINEER.
- SAFETY** - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL SELECT THE MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION HE DEEMS APPROPRIATE FOR ACCOMPLISHING THE WORK IN A SAFE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO PERSONS AND PROPERTY RESULTING FROM HIS ACTIVITIES.
- EMERGENCY SHUTOFF** - THE CONTRACTOR SHALL LOCATE EXISTING WATER AND GAS VALVES PRIOR TO STARTING WORK SO THAT IN THE EVENT OF AN EMERGENCY THE UTILITY SERVICE MAY BE QUICKLY SHUT OFF.
- EASEMENTS AND RIGHT-OF-WAY** - THE OWNER IS RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMANENT EASEMENTS NECESSARY OR REQUIRED FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY EASEMENTS FOR HIS STAGING AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE THE CONDITIONS OF THESE AGREEMENTS AND CONFINE HIS ACTIVITIES TO THE LIMITS OF THE EASEMENTS. CONTRACTOR TO OBTAIN COPIES OF EASEMENTS OBTAINED BY OWNER AND ABIDE BY THE CONDITIONS OF THESE EASEMENTS DURING CONSTRUCTION.
- EXCAVATION** - IT SHALL BE DISTINCTLY UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR ANY OTHER MATERIALS ON THE PLANS WHETHER IN NUMBERS, WORDS, LETTERS, OR LINES, IS SOLELY FOR THE OWNER'S INFORMATION AND SHALL NOT BE TAKEN AS AN INDICATION OF CLASSIFIED EXCAVATION OR THE QUANTITY OF EITHER ROCK, EARTH OR ANY OTHER MATERIAL INVOLVED. THE BIDDER MUST DRAW HIS OWN CONCLUSIONS AS TO THE CONDITIONS TO BE ENCOUNTERED. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION NECESSARY OR REQUIRED FOR COMPLETION OF THE PROJECT. THIS WORK SHALL INCLUDE THE REMOVAL AND PROPER DISPOSAL OF ALL MATERIALS OF WHATEVER NATURE ENCOUNTERED. EXCAVATION FOR UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WORK AND SHALL NOT BE MEASURED FOR PAYMENT.
- TOTAL SITE RESPONSIBILITY** - IN OCCUPYING THE SITE AND COMMENCING WORK IN ACCORDANCE WITH THE NOTICE TO PROCEED, THE CONTRACTOR ASSUMES TOTAL AND COMPLETE RESPONSIBILITY FOR THE WORK UNTIL FINAL PAYMENT AND RELEASE OF CLAIMS. ANY PORTION OF THE WORK DAMAGED IN THIS TIME PERIOD BY ACTS OF GOD, OR THE PUBLIC ENEMY, ACTS OF THE OWNER, ACTS OF OTHER CONTRACTORS, FIRES, FLOODS, EPIDEMICS, QUARANTINE, STRIKES, FREIGHT EMBARGOS, VANDALISM AND ABNORMAL WEATHER SHALL BE CORRECTED, REPAIRED, OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- ACCESS TO WORK** - THE ENGINEER, HIS REPRESENTATIVES, AND REPRESENTATIVES OF THE OWNER SHALL HAVE FULL ACCESS TO THE WORK AT ALL TIMES.
- BLASTING** - NO BLASTING SHALL BE ALLOWED ON THIS PROJECT.
- BURNING** - BURNING SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES.
- WASTE AREAS** - THE CONTRACTOR WILL NECESSARILY GENERATE WASTE MATERIALS IN THE FORM OF BRUSH CLIPPINGS, OVERSIZE BOULDERS, MUCK, ETC. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN DETAILING THE MANNER IN WHICH WASTE MATERIALS WILL BE HANDLED. THE CONTRACTOR SHALL STRICTLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS PERTAINING TO THE DISPOSITION OF CONSTRUCTION RELATED WASTE PRODUCTS. IN NO EVENT SHALL WASTE MATERIALS BE PLACED IN A REGULATORY FLOODWAY (OR FLOODPLAIN) WITHOUT A DOW PERMIT TO CONSTRUCT ALONG OR ACROSS A STREAM. OWNER WILL NOT ASSUME RESPONSIBILITY FOR WASTE AREAS.
- SILT CONTROL** - THE CONTRACTOR SHALL CONDUCT HIS WORK IN AN ENVIRONMENTALLY SOUND MANNER AND SHALL UTILIZE "BEST MANAGEMENT PRACTICES" TO MINIMIZE EROSION. THE CONTRACTOR SHALL HOLD HARMLESS THE OWNER FROM ANY VIOLATIONS ASSOCIATED WITH THE CLEAN WATER ACT.
- DRAINAGE** - CONTRACTOR SHALL MAINTAIN DRAINAGE WORK AREAS DURING ALL PHASES OF CONSTRUCTION. THE OWNER MAY DIRECT THE CONTRACTOR TO CONSTRUCT DITCHES OR BERMS TO ALLEVIATE SITE DRAINAGE PROBLEMS. CONSTRUCTION AND MAINTENANCE OF MINOR DRAINAGE WORKS SHALL BE CONSIDERED AN INTEGRAL PART OF THE OVERALL ACCOMPLISHMENTS OF THE PROJECT AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
- ADHERENCE TO PERMITS** - PERMITS REQUIRED BY THE OWNER ARE:
 - DEPARTMENT OF HIGHWAYS ENCROACHMENT PERMIT.

THE CONTRACTOR SHALL CONDUCT HIS ACTIVITIES IN STRICT ACCORDANCE WITH THESE PERMITS AT ALL TIMES. IN PARTICULAR, THE CONTRACTOR SHALL STRICTLY OBSERVE THE 401 WATER QUALITIES CERTIFICATION KEY REQUIREMENTS OF THE 401 CERTIFICATION WHICH INCLUDE:

- RE-VEGETATION AND CLEANUP OF AREA ADJACENT TO STREAMS SHALL OCCUR CONCURRENTLY WITH THE PROGRESS OF THE WORK. CONCURRENTLY IS HEREIN DEFINED TO MEAN THAT RE-VEGETATION AND CLEANUP.
- BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED. TO MINIMIZE SEDIMENT RUNOFF AND SOIL EROSION TO THE WATER COURSE.
- EXTREME CARE SHALL BE TAKEN TO PREVENT SPILLS OF FUELS AND LUBRICANT INTO WATERCOURSES. EQUIPMENT WORKS FROM THE STREAM BANK.

- EXISTING UTILITIES AND UNDERGROUND FACILITIES** - THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF EXISTING UTILITIES IN CLOSE PROXIMITY TO THE PROJECT SITE. THE CONTRACTOR IS ADVISED TO CAREFULLY REVIEW THE PROJECT REQUIREMENTS REGARDING UTILITY RELOCATIONS. THE CONTRACTOR CAN CALL 1-800-752-6007 A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. ALL UTILITY REPAIR AND RELOCATION WORK SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK. THE EXISTING CONTRACTOR MUST MAKE DILIGENT EFFORT TO MAINTAIN THE SERVICE OF EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE BY-PASS PUMPING OF WASTEWATER TO THE NEAREST PUBLIC SANITARY SEWER WHENEVER HIS ACTIVITIES INTERRUPT THE FLOW OF AN EXISTING SANITARY WASTEWATER DISPOSAL FACILITY (SEWER, SEPTIC TANK, LEACH FIELD, ETC.) BY-PASS PUMPING SHALL BE CONSIDERED AN INCIDENTAL PART OF THE PIPE LAYING ACTIVITY AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.

GENERAL NOTES (continued)

- REPLACEMENT OF EXISTING FACILITIES** - THE CONTRACTOR SHALL REPLACE EXISTING ENTRANCE PIPES, RETAINING WALLS, CATCH BASINS, FENCES AND OTHER PROPERTY IMPROVEMENTS, DITCHES, ETC., THAT ARE DAMAGED BY CONSTRUCTION UNLESS SAID FACILITIES ARE SPECIFICALLY SHOWN TO BE REMOVED. IN PARTICULAR, ALL DRAINAGE DITCHES SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION. UNLESS SAID FACILITY REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF LAYING PIPE AND SHALL NOT BE MEASURED FOR PAYMENT
- DAMAGE TO GUARDRAILS, SIGNS, FENCES, STORM DRAINS, ETC.** - ALL GUARDRAIL, SIGNS, FENCES, STORM DRAINS, ETC., DAMAGED AS A RESULT OF THE CONSTRUCTION SHALL BE RESTORED IN LIKE KIND AND CHARACTER TO THE SATISFACTION OF THE OWNER. UNLESS SAID REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF LAYING PIPE AND SHALL NOT BE MEASURED FOR PAYMENT.
- STREAM CROSSING** - STREAM CROSSINGS SHALL BE DIRECTIONAL DRILLED.
- THRUST BLOCKS** - CONCRETE THRUST BLOCKS OR 'KICKER' BLOCKS SHALL BE INSTALLED IN ALL PRESSURIZED LINES AT INTERSECTION AND CHANGES OF DIRECTION TO RESIST FORCES ACTING UPON THE PIPELINE. THRUST BLOCKS ARE CONSIDERED INCIDENTAL TO THE PIPELINE.
- ANCHORS** - CONCRETE ANCHORS SHALL BE PROVIDED WHEN THE PIPE SLOPE IS TWENTY (20) PERCENT OR GREATER. ANCHORS ARE CONSIDERED INCIDENTAL TO THE PIPELINE INSTALLATION.
- TESTING** - THE WATER LINES SHALL BE TESTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS IN THE PRESENCE OF THE ENGINEER AND THE OWNER.
- NOTICE** - THE CONTRACTOR SHALL NOT MOVE EQUIPMENT OR MATERIAL TO THE WORK SITE, NOR BEGIN ANY CONSTRUCTION PRIOR TO THE DATE SPECIFIED IN THE 'NOTICE TO PROCEED.' THE CONTRACTOR MUST NOTIFY THE OWNER AND ENGINEER PRIOR TO OCCUPYING THE SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS.
- TRAFFIC CONTROL** - THE CONTRACTOR'S WORK WILL DISTURB NUMEROUS PRIVATE DRIVEWAYS AND SUBSTANTIAL PORTIONS OF PUBLIC THOROUGHFARES. THE TERRAIN DOES NOT LEND ITSELF TO DETOURS. CONSEQUENTLY, THE CONTRACTOR MUST OBSERVE THE FOLLOWING TRAFFIC PRINCIPLES:
 - ACCESS TO RESIDENCE DRIVE MAY NOT BE INTERRUPTED FOR MORE THAN THREE (3) HOURS AT ANY ONE TIME
 - ACCESS TO ALL DRIVEWAYS AND PUBLIC THOROUGHFARES MUST BE RESTORED AT THE END OF EACH WORKDAY.
 - WORK WITHIN THE LIMITS OF PUBLIC THOROUGHFARE MAY ONLY BE CONDUCTED BETWEEN THE HOURS OF 8:30 A.M. AND 12:00 NOON, BETWEEN 12:30 P.M. AND 3:30 P.M., AND BETWEEN 6:00 P.M. AND 9:30 P.M. THE CONTRACTOR MUST POST SIGNS ADJACENT TO THE WORK STATING THE ROADWAY WILL BE CLOSED DURING THE POSTED HOURS AT LEAST ONE (1) DAY IN ADVANCE OF THE PROPOSED ROAD CLOSURE.
 - THE CONTRACTOR MUST MAKE SPECIAL PROVISIONS FOR ACCESS FOR EMERGENCY VEHICLES: POLICE, FIRE AND AMBULANCE.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY DEVICES IN THE FORM OF SIGNS, FLASHERS, BARRICADES, ETC. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CLAIMS ARISING FROM THE PUBLIC WITH RESPECT TO HIS TRAFFIC CONTROL ACTIVITIES.
- SEEDING** - ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- PROTECTION OF TREES** - CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID DAMAGE TO VEGETATION. ORNAMENTAL SHRUBBERY AND TREE BRANCHES SHALL BE TEMPORARILY TIED BACK, WHERE APPROPRIATE, TO MINIMIZE DAMAGE. TREES WHICH RECEIVE DAMAGE TO THE BRANCHES SHALL BE TRIMMED OF THOSE BRANCHES TO IMPROVE THE APPEARANCE OF THE TREE. TREE TRUNKS RECEIVING DAMAGE FROM EQUIPMENT SHALL BE TREATED WITH A TREE DRESSING.
- TREE REMOVAL IN PROJECT AREA IS RESTRICTED TO LESS THAN 4" IN DIAMETER FROM APRIL 1st TO NOVEMBER 15th UNLESS APPROVAL IS GRANTED BY U.S. FISH AND WILDLIFE.
- 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 BACTIE RESULTS MUST BE PROVIDED TO THE ENGINEER PRIOR TO RECONNECTS OF ANY METER.
- A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE PLACED IN THE TRENCH SIX INCHES ABOVE ALL PLASTIC LINES. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED INTO 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
- NO BLASTING WILL BE PERMITTED ON THIS PROJECT
- GRIP RINGS SHALL BE INSTALLED ON ALL FITTINGS
- ALL NEW METERS SHALL BE 5/8" X 3/4" SENSUS IPERL RADIO READ
- ALL STEEL AND IRON ON THIS JOB SHALL COMPLY WITH AIS REQUIREMENTS

KYDOH NOTES

- 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.
- CONTACT THE DISTRICT PERMITS ENGINEER AT KYC-DOH #9, FLEMINGSBURG, KY AT (606) 845-2551 OR 1-800-817-2551 PRIOR TO BEGINNING WORK.

CONTAMINATION PREVENTION REQUIREMENTS

- ALL PIPING, VALVES, FITTINGS, ETC. DELIVERED TO THE JOB SITE SHALL BE STORED ELEVATED ABOVE THE GROUND AND SHALL BE COVERED WITH PLASTIC, TARPS OR SIMILAR MEANS TO PROTECT FROM EXPOSURE TO DUST AND DEBRIS.
- ALL PIPING, FITTINGS AND VALVES SHALL BE THOROUGHLY CLEANED OF DUST, DIRT AND DEPOSITS BY SWABBING OR OTHER MEANS ACCEPTABLE. EACH COMPONENT SHALL BE CLEANED ON THE SAME DAY IT IS TO BE INSTALLED.
- ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH AN APPROVED WATERTIGHT PLUG AT THE END OF EACH DAY WHEN PIPE LAYING HAS STOPPED, OR FOR OTHER REASONS SUCH AS REST OR MEAL BREAKS.

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20



NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

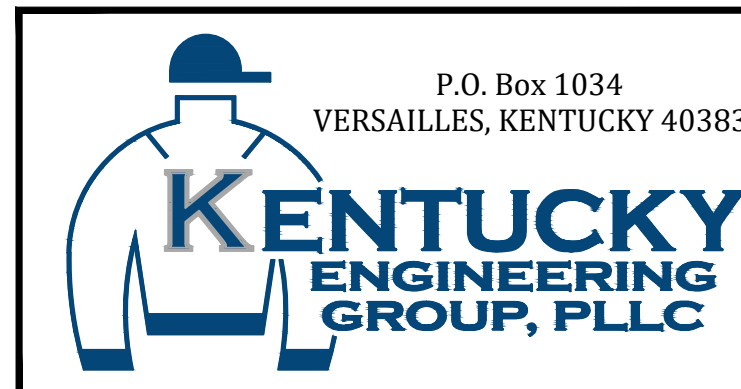
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NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
GENERAL NOTES

PROJECT NO.
15036
SHEET NO.
02

PROJECT NO.
15036
SHEET NO.
02

BID DOCUMENTS

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RECORD DRAWINGS

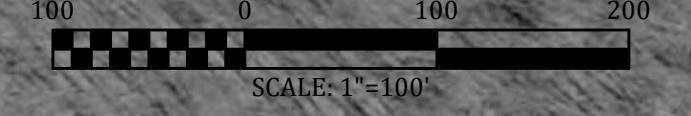
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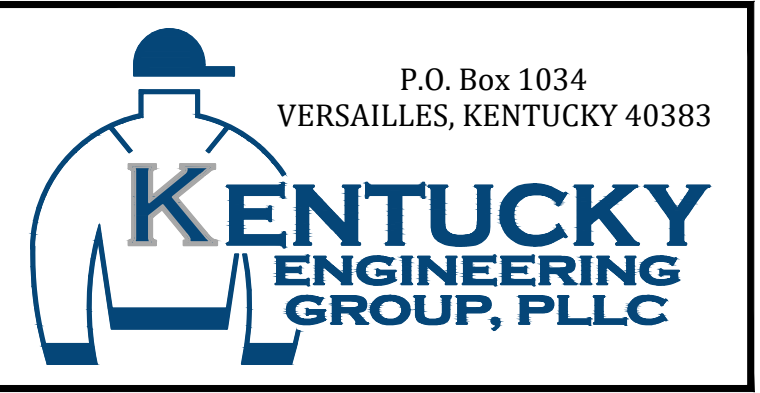


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DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
HARDY BRANCH ROAD

PROJECT NO.	15036
SHEET NO.	03

BID DOCUMENTS

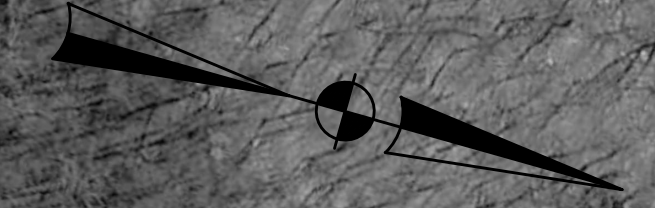
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 BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20



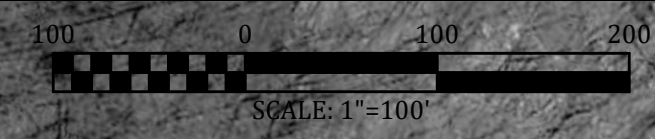
NO.	DATE	REVISIONS	BY
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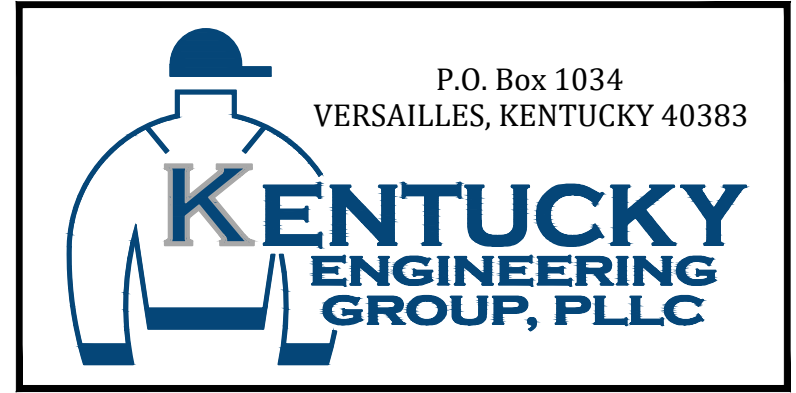


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NO.	DATE	REVISIONS	BY
1	APRIL 27, 2017	CHANGED EX. WM TO 3" & NEW WM TO 2"	MRC

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
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CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE
 RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS

PARKER HOLLOW ROAD

PROJECT NO.
15036

SHEET NO.
04

PROJECT NO.
15036

SHEET NO.
04

BID DOCUMENTS

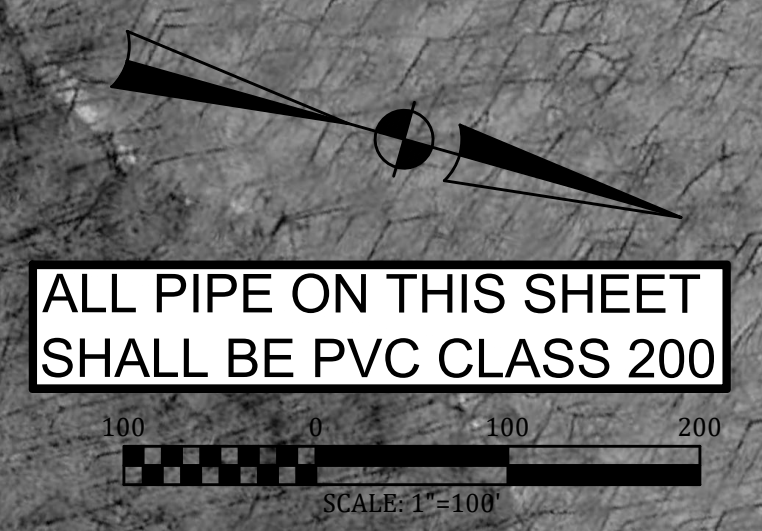
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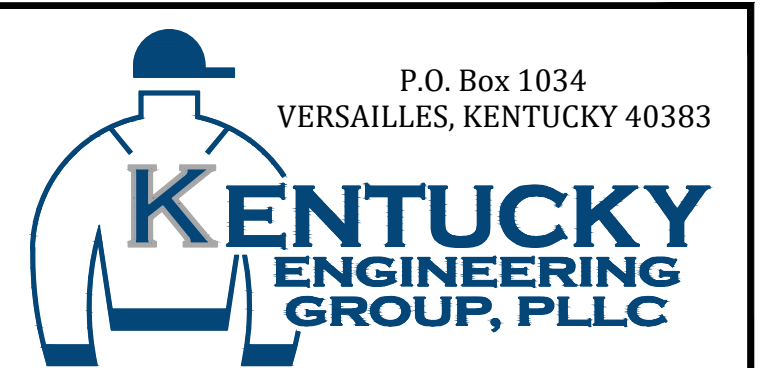


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DATE: NOVEMBER, 2017
 PROJECT MGR: LRS
 DRAWN BY: JAB
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 SCALE: AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 PARKER HOLLOW ROAD

PROJECT NO.
15036

SHEET NO.
05

PROJECT NO.
15036

SHEET NO.
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BID DOCUMENTS

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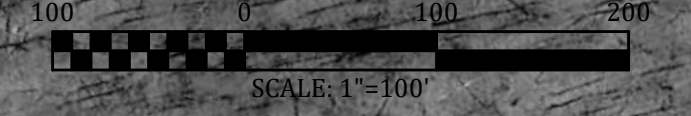


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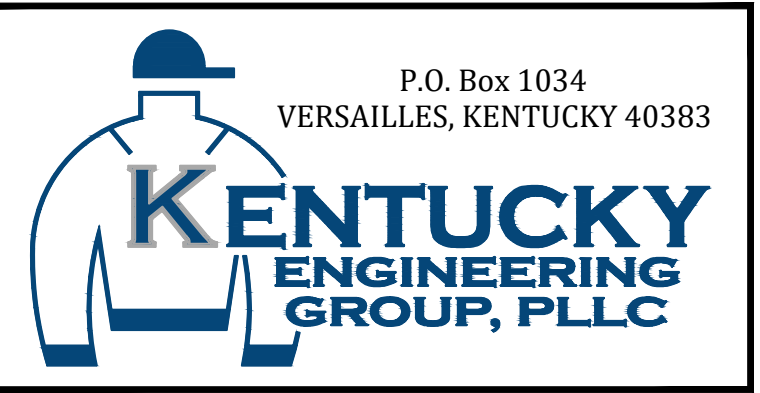
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DATE: NOVEMBER, 2017
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 DEHART ROAD

PROJECT NO. 15036
 SHEET NO. 06

PROJECT NO. 15036
 SHEET NO. 06

BID DOCUMENTS

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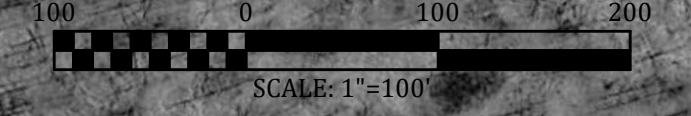


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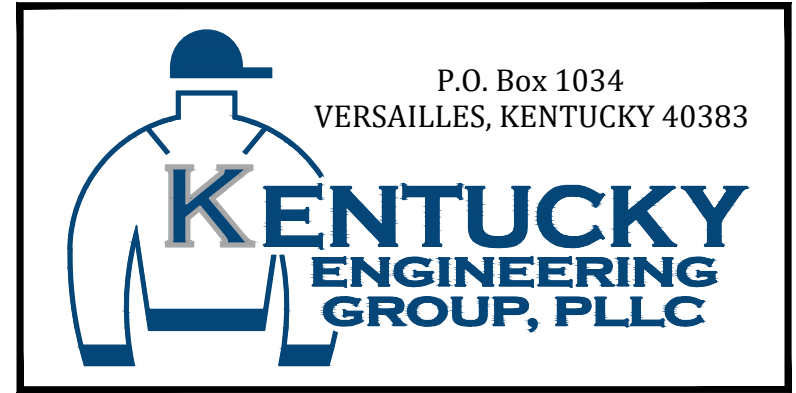
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DATE: NOVEMBER, 2017
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

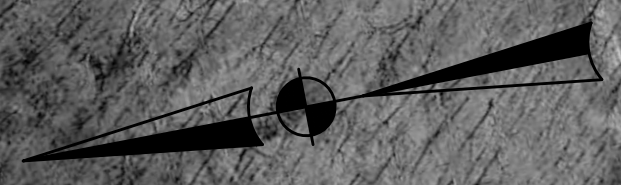
CONTRACT 1 - WATER MAIN EXTENSIONS
 DEHART ROAD

PROJECT NO. 15036
 SHEET NO. 07

BID DOCUMENTS



NO.	DATE	REVISIONS	BY
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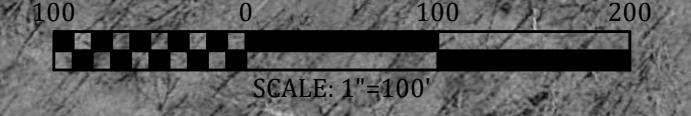


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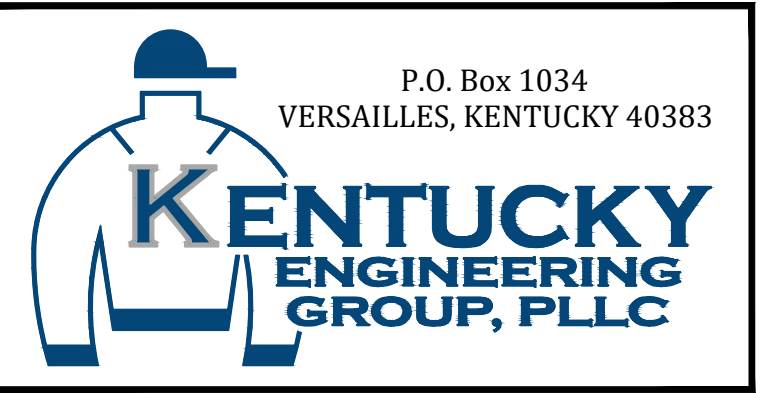
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DATE:	NOVEMBER, 2017
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE
 RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 ISON CREEK ROAD

PROJECT NO.
 15036

SHEET NO.
 08

PROJECT NO.
 15036

SHEET NO.
 08

BID DOCUMENTS

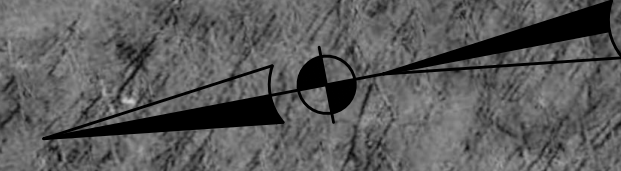


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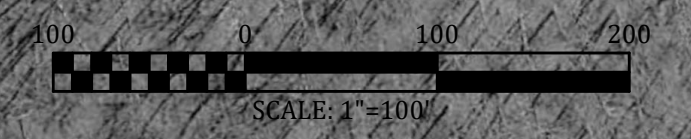


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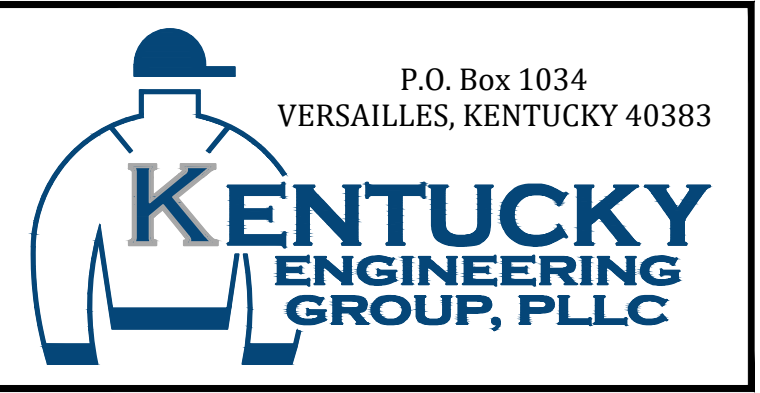


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PHASE 11 WATER SYSTEM IMPROVEMENTS
FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
ISON CREEK ROAD

PROJECT NO.
15036

SHEET NO.
09

PROJECT NO.
15036

SHEET NO.
09

BID DOCUMENTS



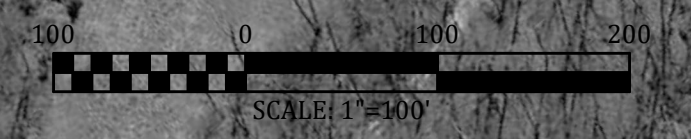
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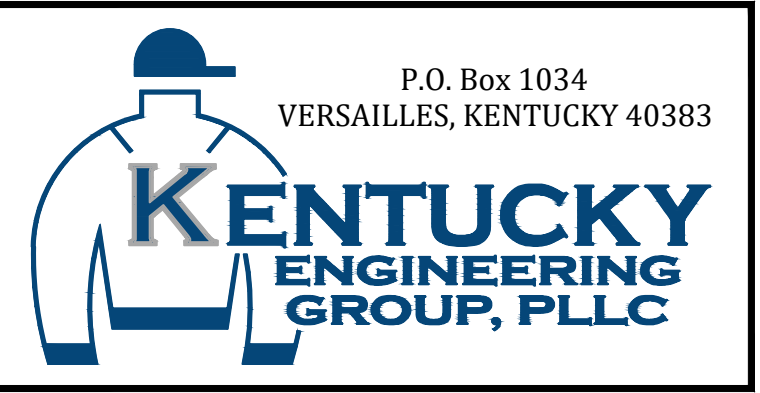
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PROJECT MGR:	LRS
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 ISON CREEK ROAD

PROJECT NO.
15036

SHEET NO.
10

PROJECT NO.
15036

SHEET NO.
10

BID DOCUMENTS



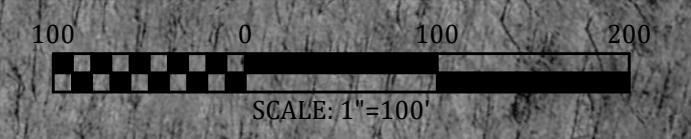
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NOTE: RECONNECT EXISTING METERS TO NEW MAIN



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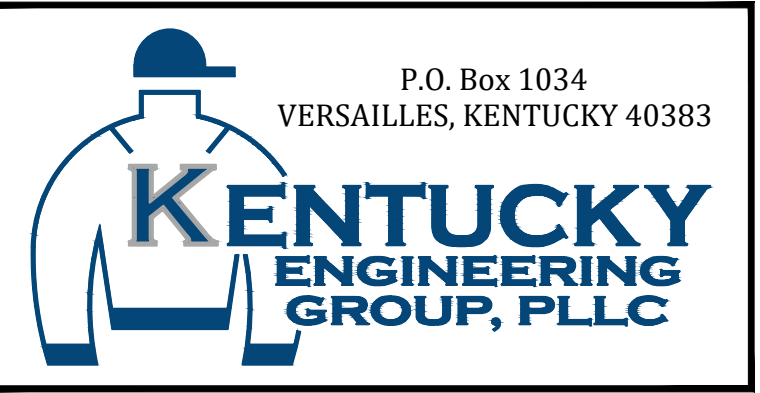


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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 GLEN LAWSON ROAD

PROJECT NO.
15036

SHEET NO.
11

PROJECT NO.
15036

SHEET NO.
11

BID DOCUMENTS

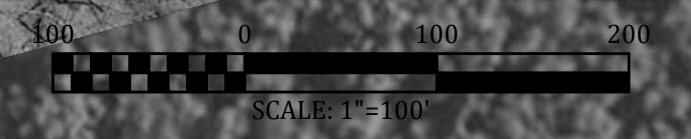


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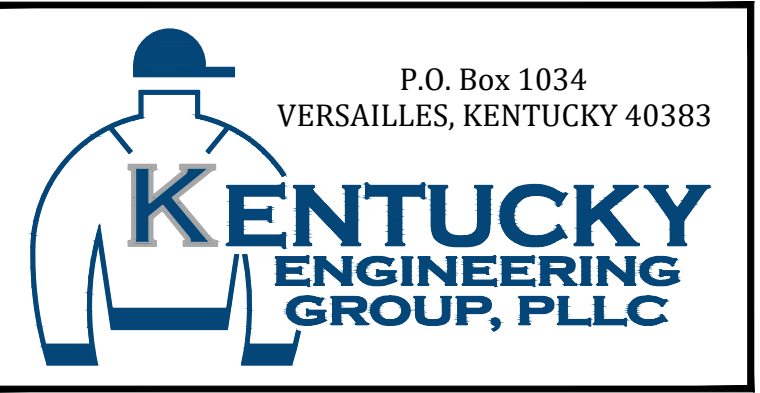


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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 GLEN LAWSON ROAD

PROJECT NO.
15036

SHEET NO.
12

PROJECT NO.
15036

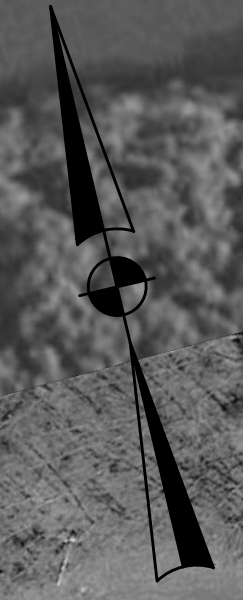
SHEET NO.
12

BID DOCUMENTS



NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKI

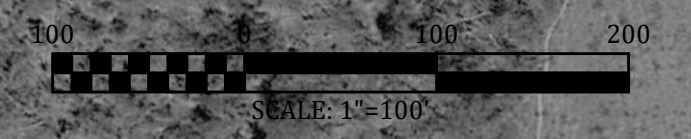
RECORD DRAWINGS
 TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF, THIS SET OF RECORD DRAWINGS SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES, WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.
 BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20



B:\PROJECTS\Rattlesnake Ridge WD\18020 - Phase 11 Water System Improvements\Drawings\Record Drawings\Contract 1\RD 15036-01-13.dwg KEG 6/30/20



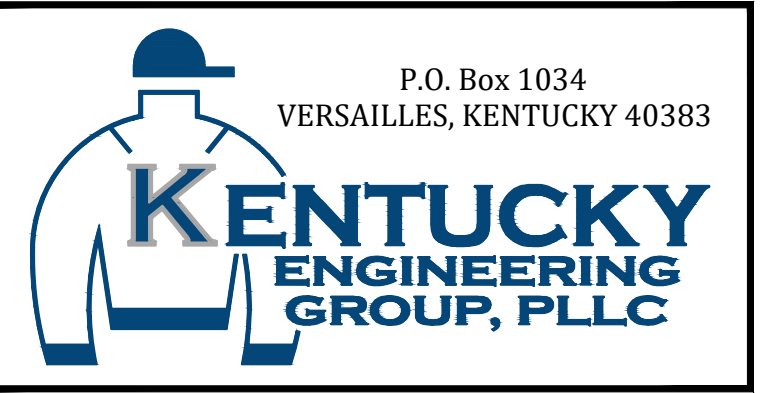
ALL PIPE ON THIS SHEET SHALL BE PVC CLASS 200



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NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE
 RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 GLEN LAWSON ROAD

PROJECT NO.
15036

SHEET NO.
13

PROJECT NO.
15036

SHEET NO.
13

BID DOCUMENTS

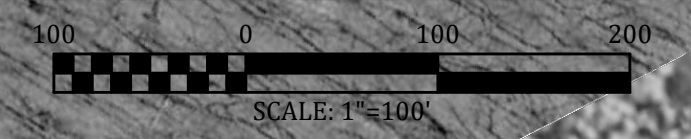


NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

RECORD DRAWINGS
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 BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20



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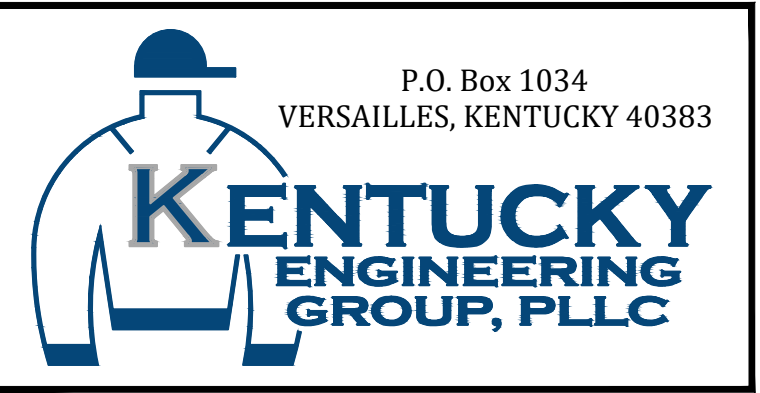


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NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 CAVE ROAD

PROJECT NO.
15036

SHEET NO.
14

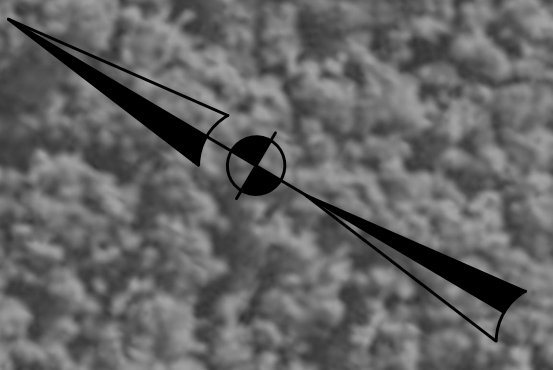
PROJECT NO.
15036

SHEET NO.
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BID DOCUMENTS



NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL



RECORD DRAWINGS

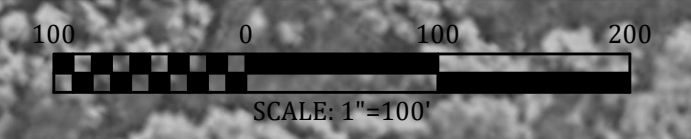
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20



ALL PIPE ON THIS SHEET SHALL BE CONSTRUCTED ON COUNTY R/W

ALL PIPE ON THIS SHEET SHALL BE PVC CLASS 200



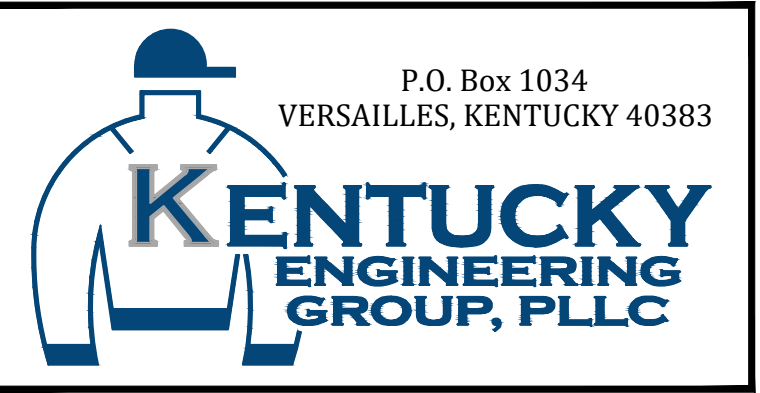
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NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
FOR THE
RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS

CAVE ROAD

PROJECT NO.
15036

SHEET NO.
15

PROJECT NO.
15036

SHEET NO.
15

BID DOCUMENTS



NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL



RECORD DRAWINGS

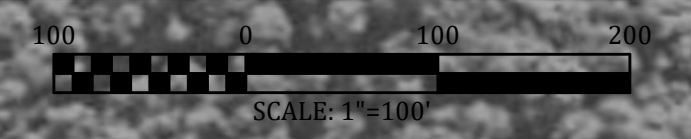
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20

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ALL PIPE ON THIS SHEET SHALL BE PVC CLASS 200

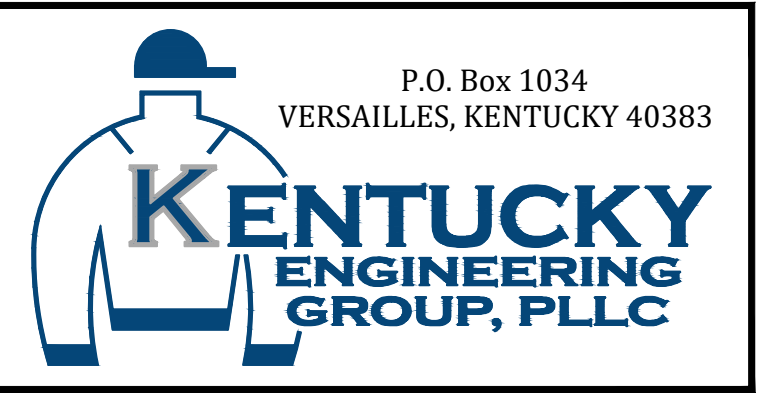


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NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
BROWNIE COX ROAD

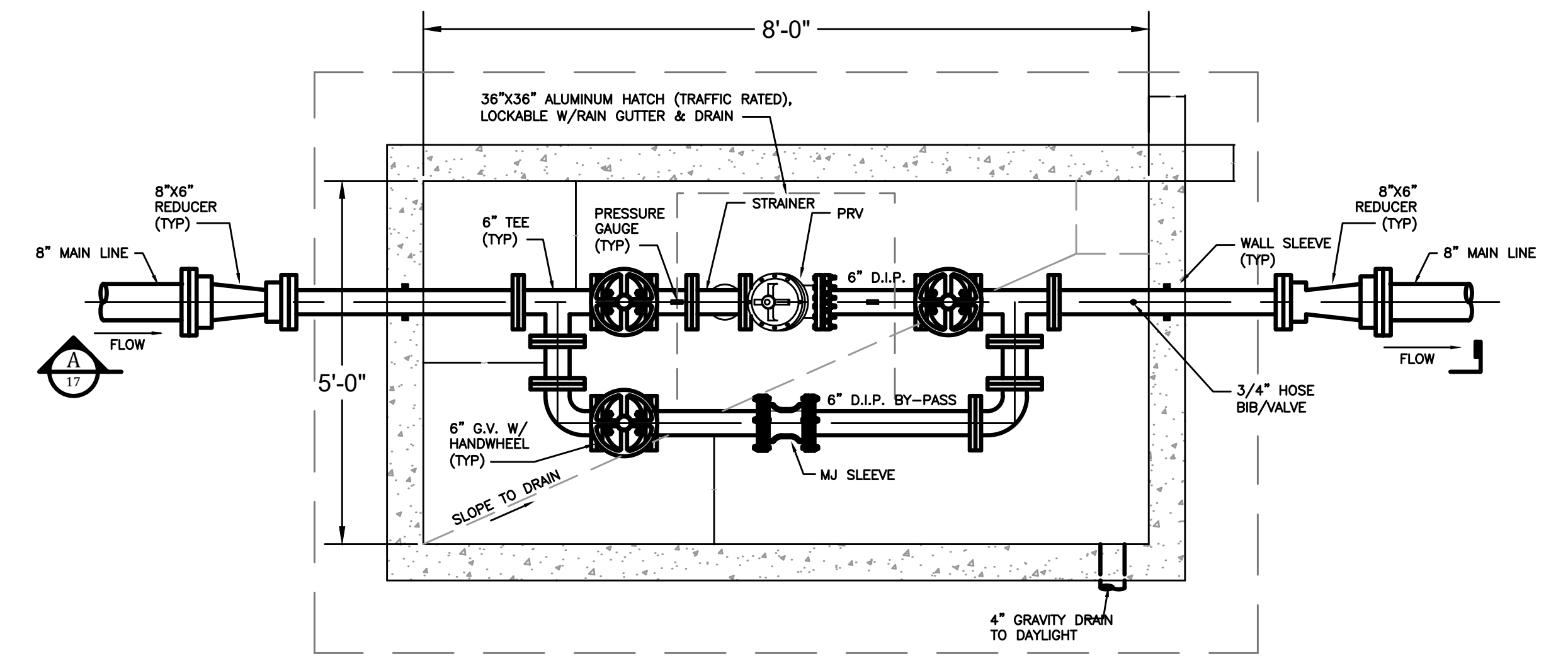
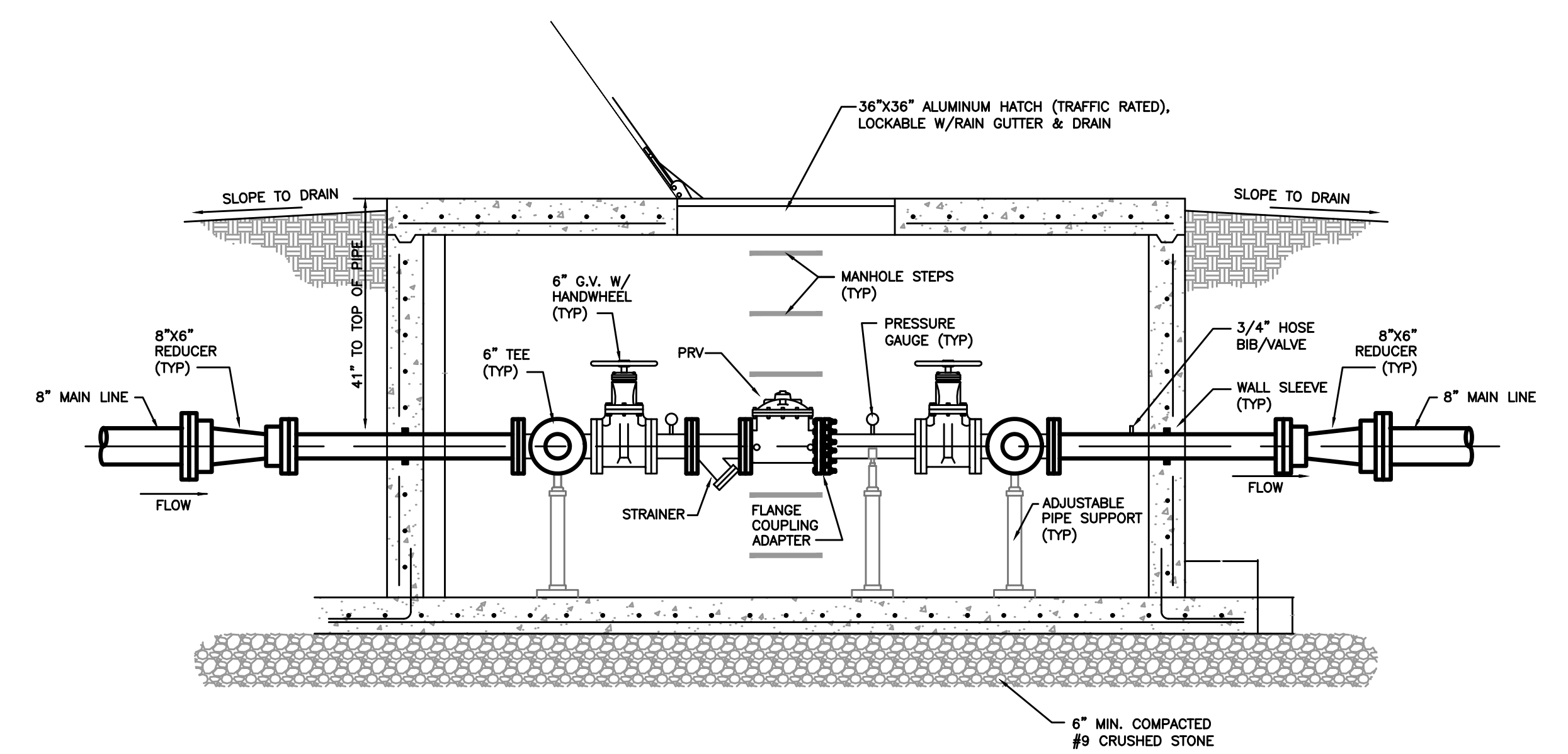
PROJECT NO.	15036
SHEET NO.	16

BID DOCUMENTS



NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

RECORD DRAWINGS
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 BY: BLUEGRASS ENGINEERING, PLLC DATE: 1/20/20



PLAN - PRV and VAULT
 SCALE: 3/4"=1'-0"

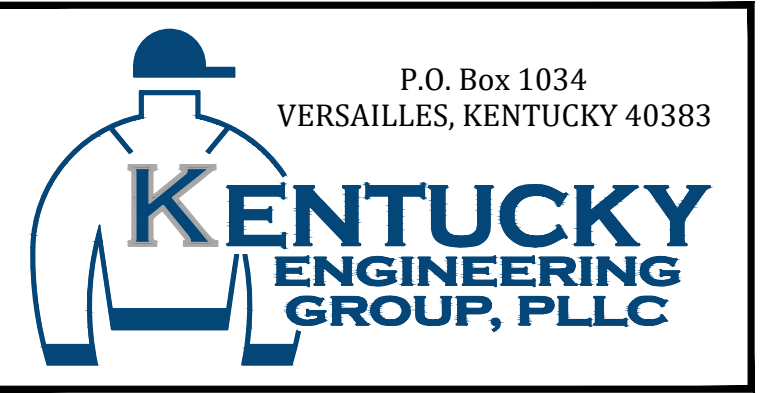
NOTE: ABANDONED PRV VAULT SHALL BE FILLED WITH NO. 9 STONE TO GRADE.

B:\PROJECTS\Rattlesnake Ridge WD\18020 - Phase 11 Water System Improvements\Drawings\Record Drawings\Contract 1\RD 15036-01-17.dwg KEG 6/30/20

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NO.	DATE	REVISIONS	BY

DATE: NOVEMBER, 2017
 PROJECT MGR: LRS
 DRAWN BY: JAB
 CHECKED BY: JCT
 SCALE: AS NOTED
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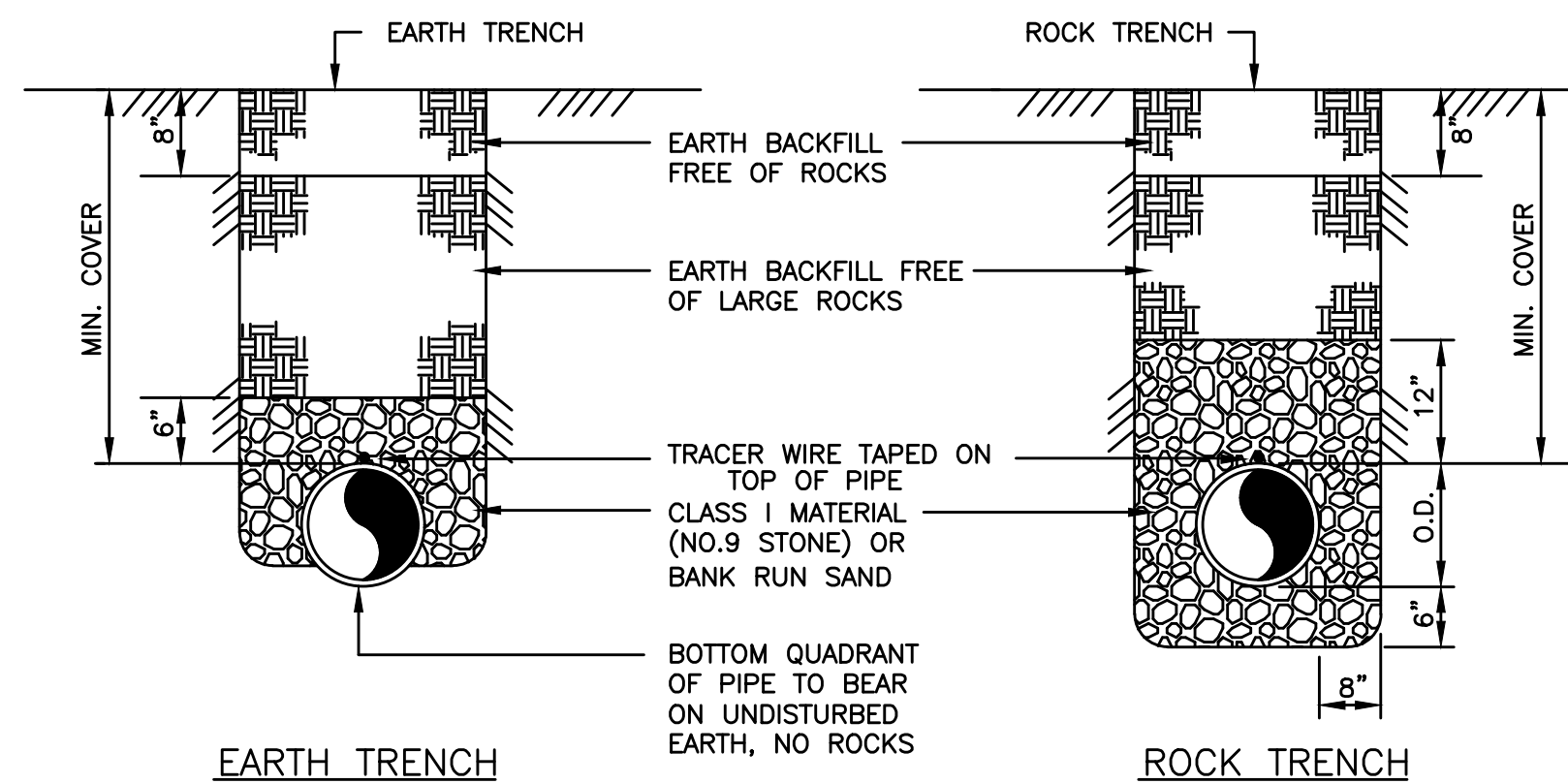


PHASE 11 WATER SYSTEM IMPROVEMENTS
 FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
 HUFF RUN PRV

PROJECT NO. 15036
SHEET NO. 17

BID DOCUMENTS

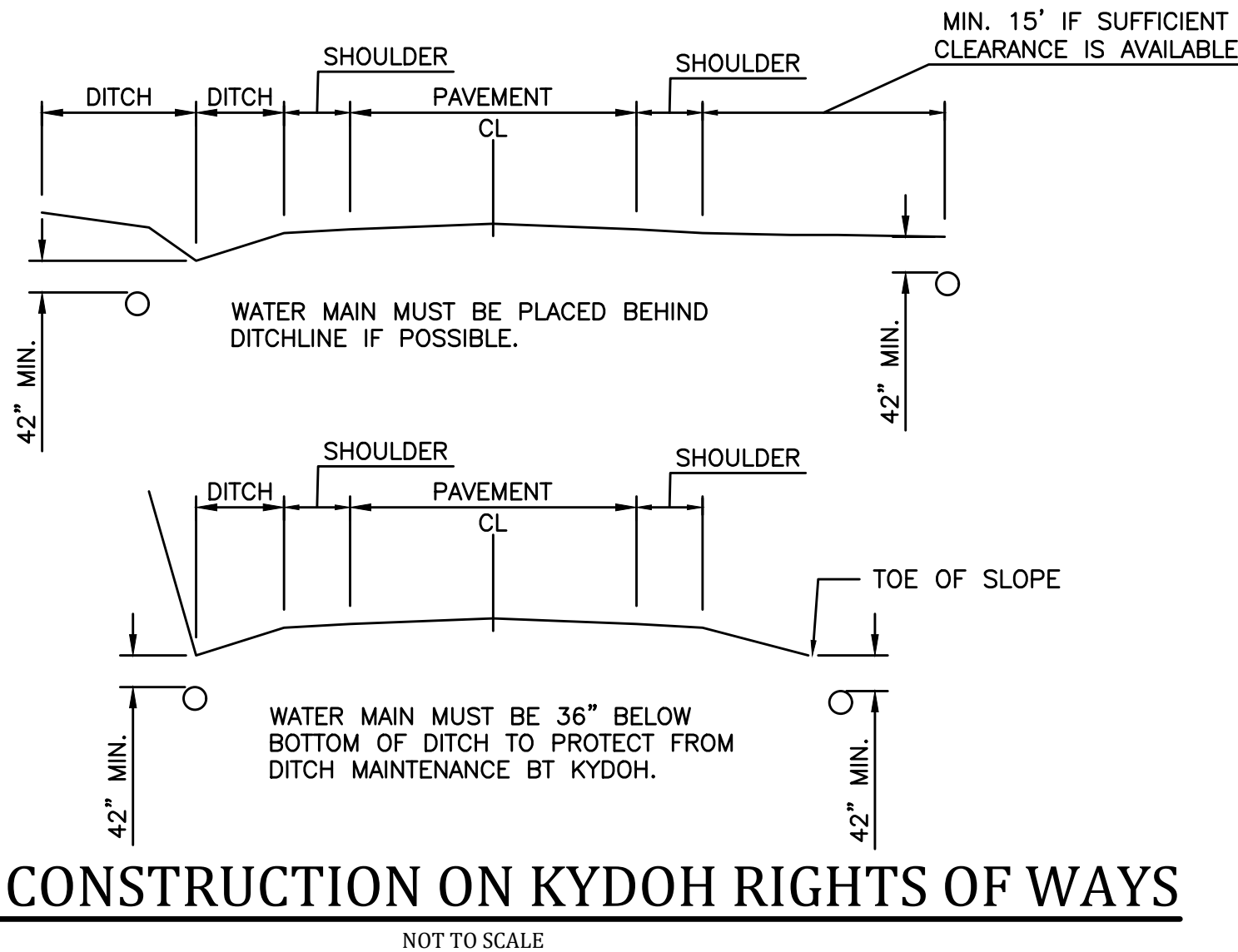


TYPICAL - BEDDING AND BACKFILL
NOT TO SCALE

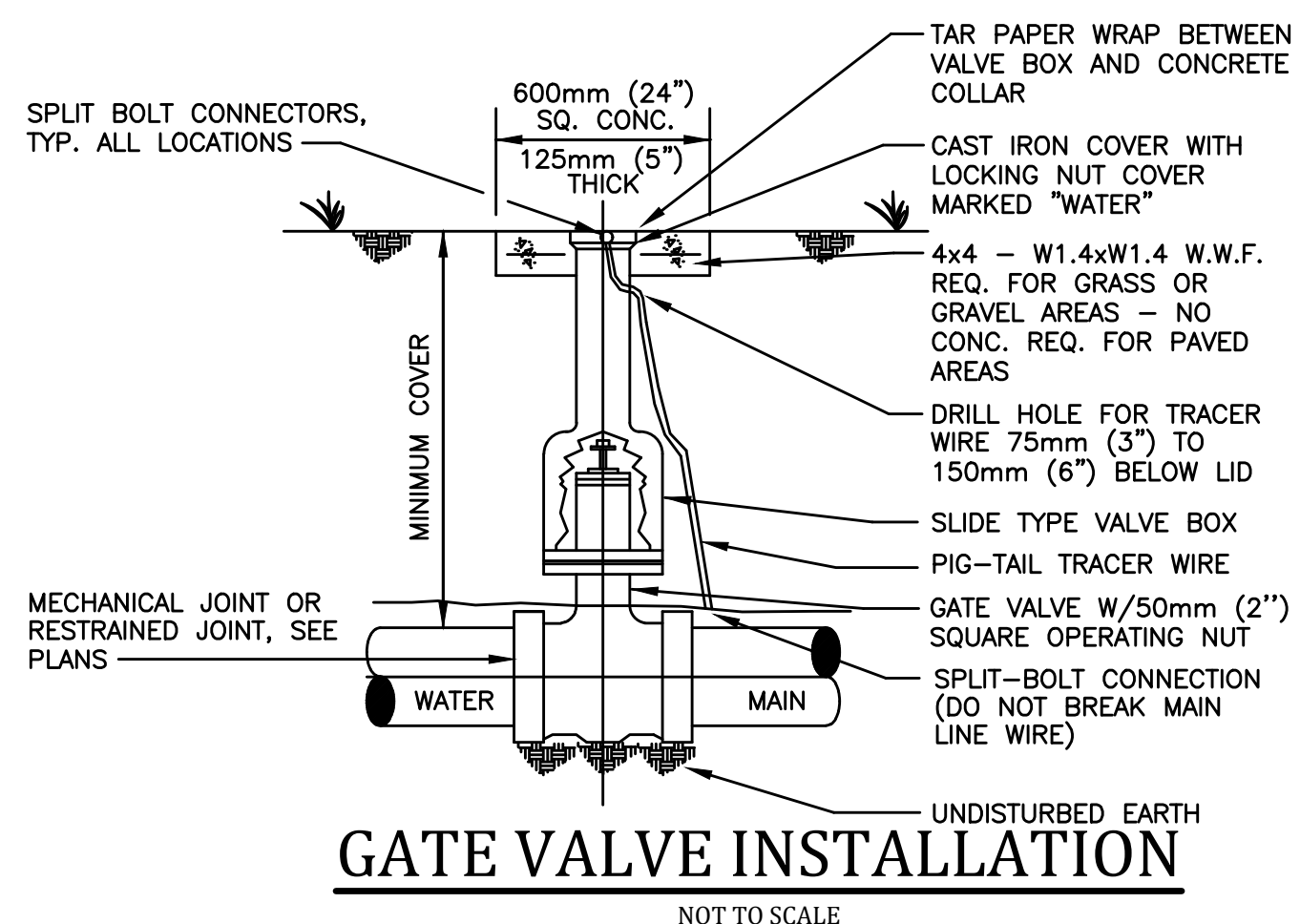
NOTES:

1. REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
2. IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO. 9 CRUSHED STONE MUST BE PLACED UNDER THE ENCASMENT PIPE.
3. X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (36" + PIPE O.D.)
4. FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST 6' OR MORE. IF LESS THAN 6' REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.
5. NO. 610 CRUSHED STONE MAY BE SUBSTITUTED FOR MECHANICALLY TAMPED EARTH BACKFILL WITH PRIOR APPROVAL OF THE ENGINEER.
6. 1' SAW CUT OUTSIDE OF TRENCH LINES, BITUMINOUS PATCH PLACED IN 2" LIFTS WITH TACK COAT ON EACH SIDE, EACH LIFT COMPACTED WITH SMALL ROLLER.

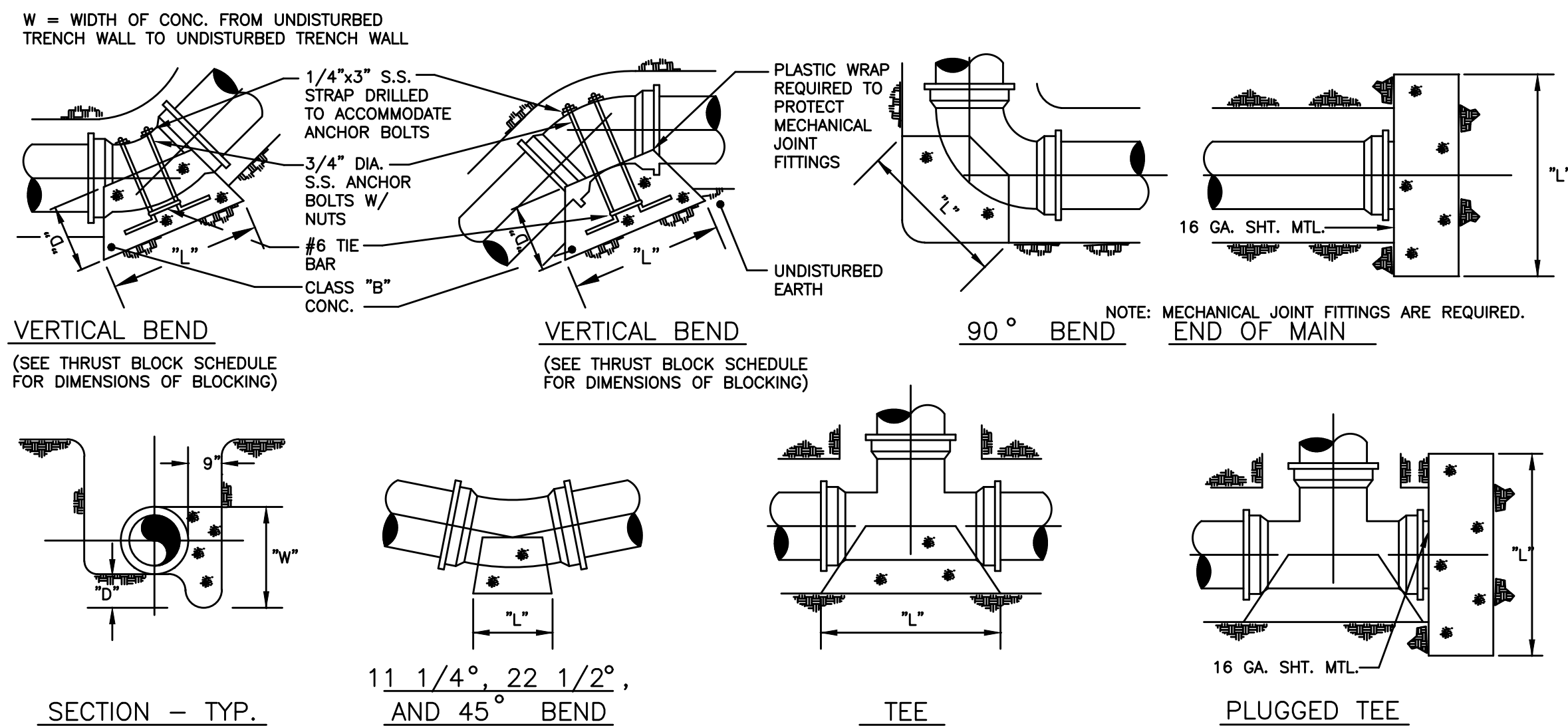
NOTE:
ALL WATER LINES CONSTRUCTED WITHIN 3' OF A COUNTY ROAD SHALL BE BACKFILLED WITH DGA TO FULL DEPTH.



TYPICAL CONSTRUCTION ON KYDOH RIGHTS OF WAYS
NOT TO SCALE



GATE VALVE INSTALLATION
NOT TO SCALE



* ALL FITTINGS SHALL INCLUDE GRIP RINGS

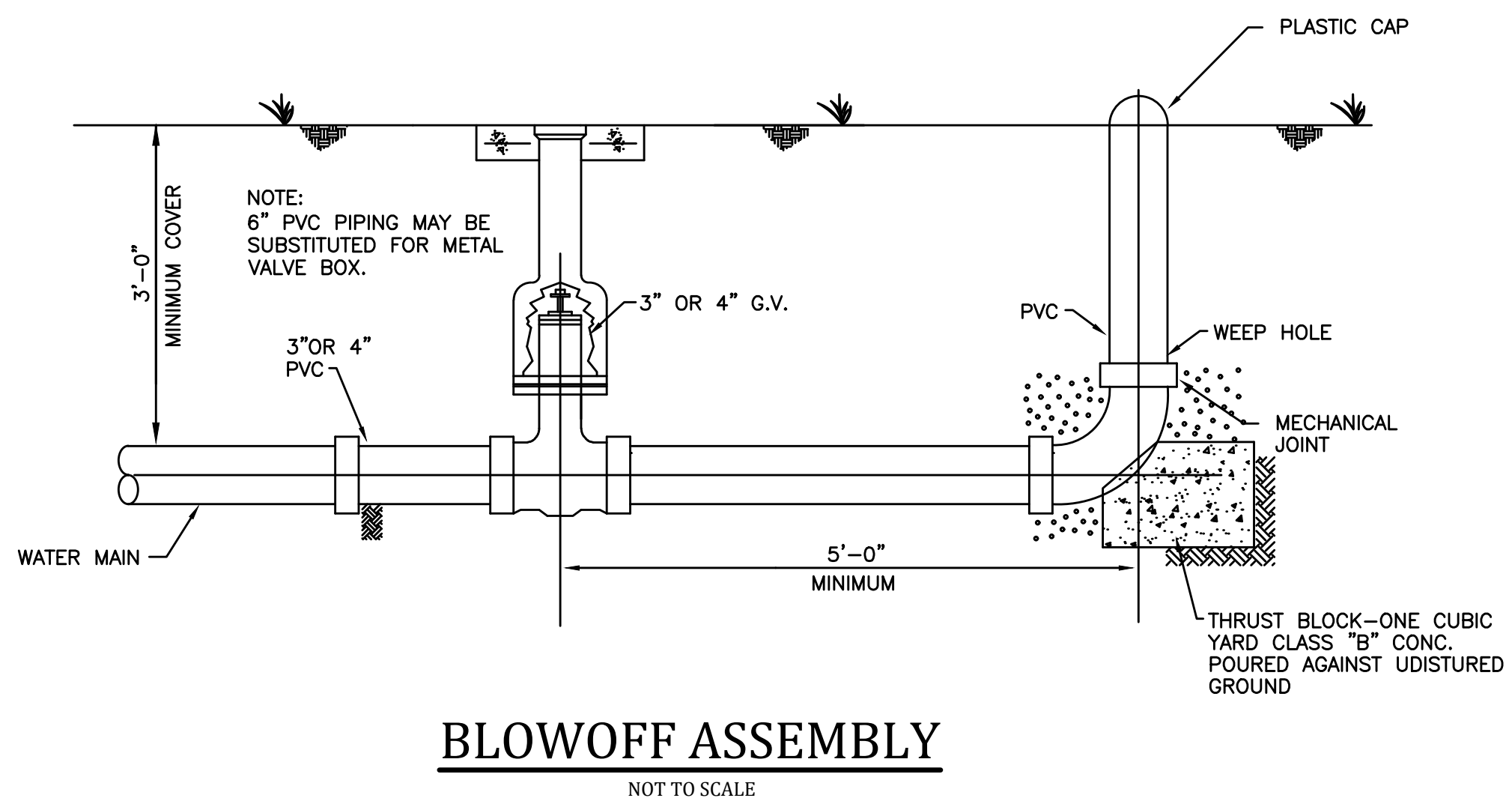
THRUST BLOCK SCHEDULE - CLASS 200 PVC												SOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF													
PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/4° BEND				TEE & DEAD ENDS								
	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L	BEARING AREA	YDS OF CONCRETE	D	W	L					
4"	1.78	0.07	12"	16"	16"	1.00	0.04	12"	12"	12"	0.50	0.02	12"	12"	6"	0.25	0.01	6"	6"	1.50	0.06	12"	18"	12"	
6"	4.00	0.15	12"	24"	24"	2.25	0.08	12"	18"	18"	1.33	0.05	12"	16"	12"	0.56	0.01	6"	8"	3.00	0.11	12"	24"	18"	
8"	7.50	0.42	18"	36"	30"	4.00	0.22	18"	24"	24"	2.00	0.11	18"	18"	16"	1.00	0.04	12"	12"	5.00	0.28	18"	30"	24"	
10"	11.67	0.65	18"	42"	40"	6.25	0.35	18"	30"	30"	3.33	0.19	18"	24"	20"	2.00	0.07	12"	18"	16"	8.75	0.49	18"	42"	30"
12"	16.00	0.89	18"	48"	48"	9.00	0.50	18"	36"	36"	5.00	0.28	18"	30"	24"	2.22	0.08	12"	20"	16"	14.00	0.78	18"	48"	42"
14"	22.50	1.67	24"	60"	54"	12.25	0.91	24"	42"	42"	6.25	0.46	24"	30"	30"	3.33	0.19	18"	24"	20"	17.50	1.30	24"	60"	42"
16"	30.00	2.22	24"	72"	60"	16.00	1.19	24"	48"	48"	9.00	0.67	24"	36"	36"	4.00	0.22	18"	24"	24"	20.00	1.48	24"	60"	48"

THRUST BLOCK SCHEDULE - CLASS 250 PVC												SOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF													
PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/4° BEND				TEE & DEAD ENDS								
	BEARING AREA	YDS OF CONCRETE	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	W	L					
4"	2.667	.10	12	24	16	1.500	.06	12	18	12	.750	.03	12	12	9	.500	.01	6	12	6	1.667	.06	12	24	10
6"	5.000	.19	12	36	20	3.000	.11	12	24	18	1.500	.06	12	18	12	.750	.01	6	12	9	4.000	.15	12	24	14
8"	9.000	.50	18	36	36	5.000	.28	18	36	20	3.000	.17	18	24	18	1.500	.06	12	18	12	7.000	.39	18	42	24
10"	9.255	.78	18	48	42	7.500	.42	18	36	30	4.167	.23	18	30	20	2.250	.08	12	18	18	10.500	.58	18	42	36
12"	13.327	1.11	18	60	48	12.000	.67	18	48	36	6.000	.33	18	36	24	3.000	.11	12	24	18	14.000	.78	18	48	42
14"	18.139	2.00	24	72	54	15.750	1.17	24	54	42	7.500	.56	24	36	30	4.000	.22	18	24	24	20.000	1.48	24	60	48
16"	23.692	2.65	24	78	66	20.000	1.48	24	60	48	10.500	.78	24	42	36	5.000	.28	18	30	24	27.000	2.00	24	72	54

THRUST BLOCK SCHEDULE - CLASS 350 D.I.P.												SOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF													
PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/4° BEND				TEE & DEAD ENDS								
	BEARING AREA	YDS OF CONCRETE	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	W	L					
4"	3.750	.21	18	30	18	1.750	.10	18	18	14	1.000	.06	18	12	12	.500	.02	12	12	6	2.250	.13	18	18	18
6"	7.000	.39	18	42	24	3.750	.21	18	30	18	2.000	.11	18	24	12	1.000	.04	12	12	12	5.000	.28	18	30	24
8"	12.250	.91	24	42	42	7.500	.56	24	36	30	4.000	.30	24	24	24	2.000	.11	18	24	12	9.000	.67	24	36	36
10"	20.000	1.48	24	60	48	10.500	.78	24	42	36	6.000	.44	24	36	24	3.000	.17	18	24	18	14.000	1.04	24	48	42
12"	30.000	2.78	30	72	60	15.750	1.46	30	54	42	7.500	.69	30	36	30	4.000	.30	24	24	24	20.000	1.85	30	60	48
14"	39.000	4.33	36	78	72	20.000	2.22	36	60	48	10.500	1.17	36	42	36	6.000	.56	30	36	24	27.500	3.06	36	66	60
16"	49.000	6.35	42	84	84	27.500	3.56	42	66	60	14.000	1.81	42	48	42	7.500	.83	36	36	30	37.500	4.63	42	78	66

WATER MAIN THRUST BLOCKS

(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)
NOT TO SCALE



BLOWOFF ASSEMBLY
NOT TO SCALE

NO.	DATE	REVISIONS	BY
1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/20

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NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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P.O. Box 1034
VERSAILLES, KENTUCKY 40383

PHASE 11 WATER SYSTEM
IMPROVEMENTS
FOR THE
RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN
EXTENSIONS

STANDARD DETAILS

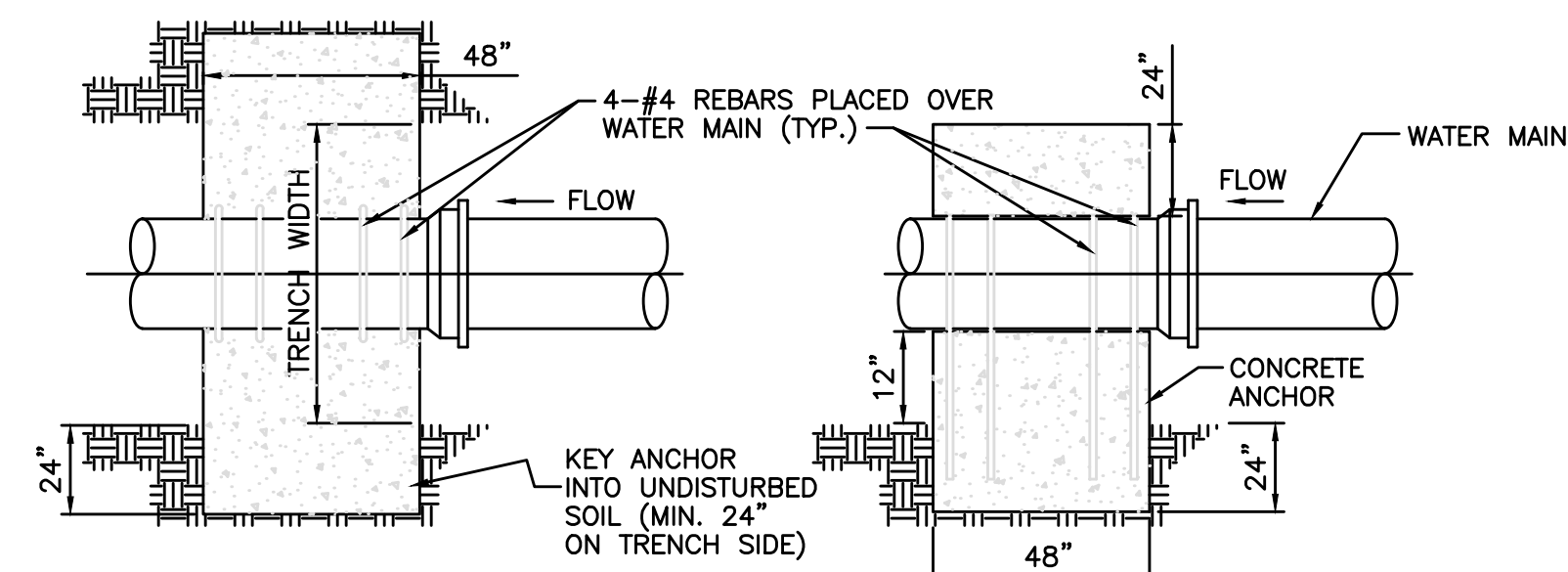
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15036

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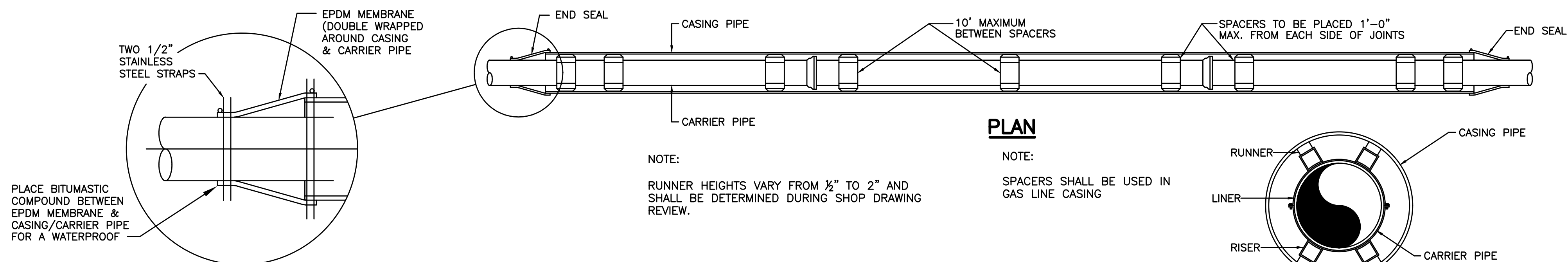
PROJECT NO.
15036

SHEET NO.
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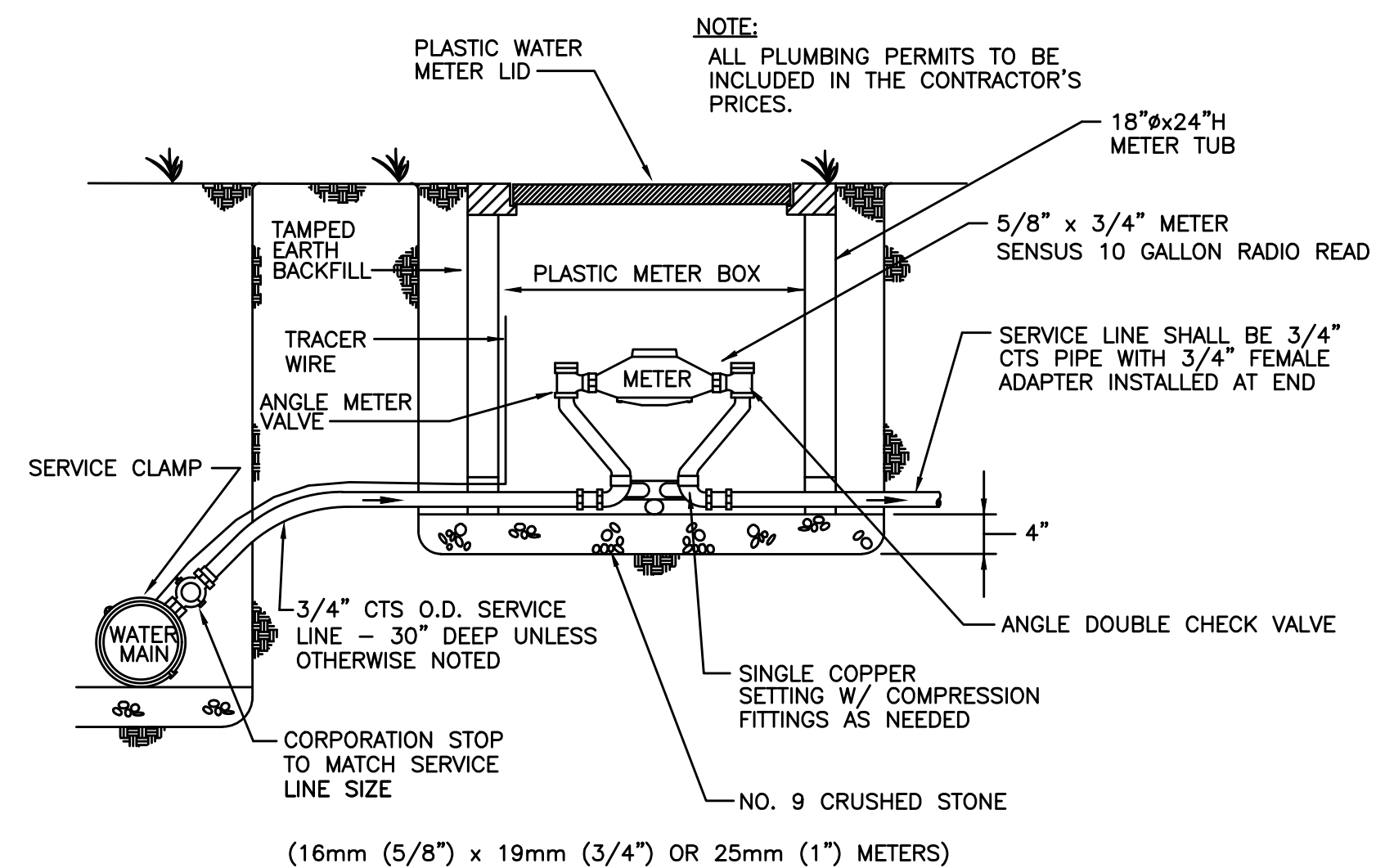
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CONCRETE ANCHOR
NOT TO SCALE

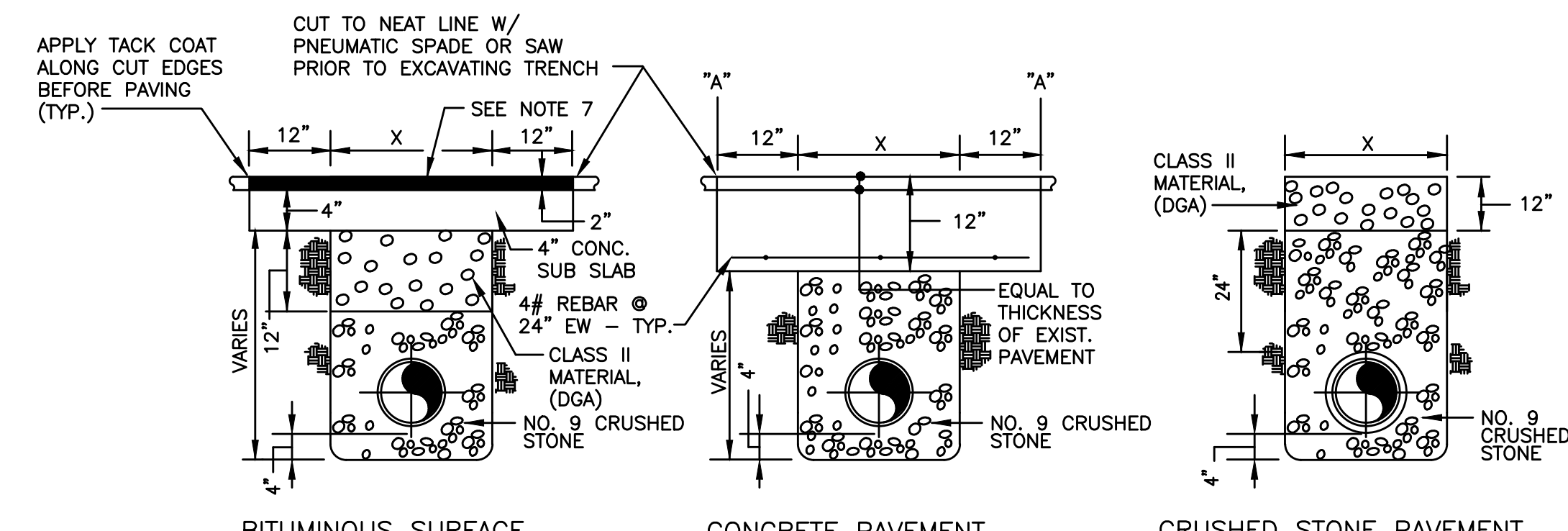


ENCASEMENT PIPE SPACER DETAIL
NOT TO SCALE

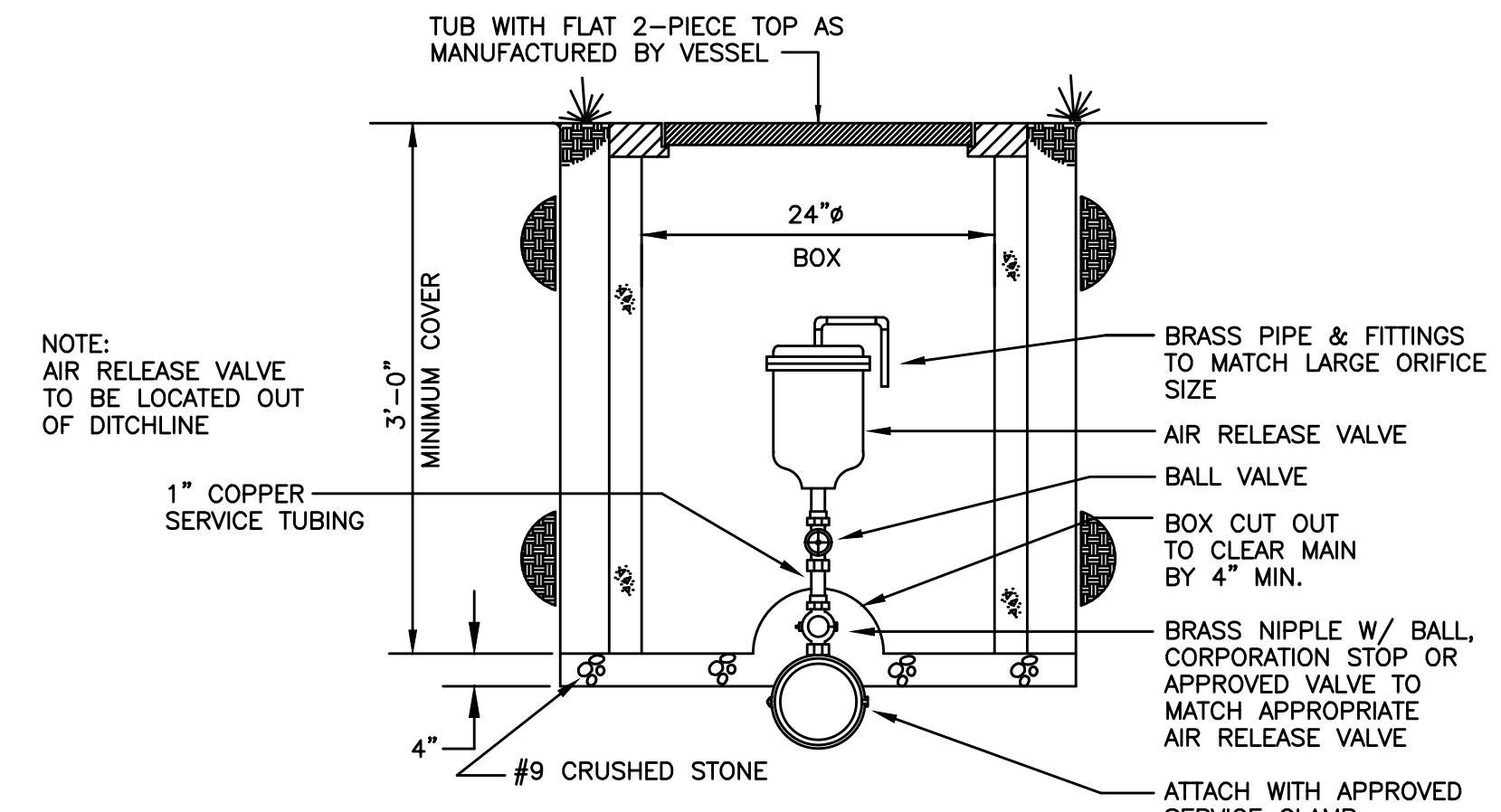


TYPICAL SERVICE CONNECTION
NOT TO SCALE

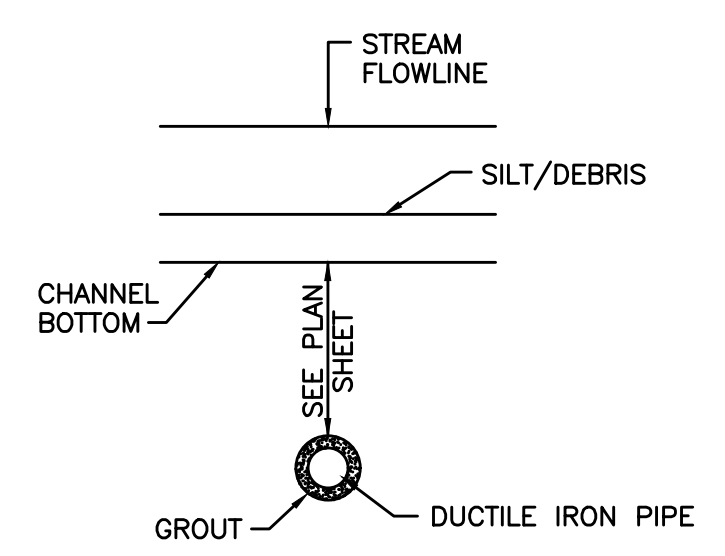
- NOTES:**
1. OPEN CUTS SHALL INCLUDE APPROPRIATE STEEL CASING
 2. REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
 3. IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO. 9 CRUSHED STONE MUST BE PLACED UNDER THE ENCASEMENT PIPE.
 4. X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (36" + PIPE O.D.)
 5. FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST 6' OR MORE. IF LESS THAN 6' REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.
 6. NO. 610 CRUSHED STONE MAY BE SUBSTITUTED FOR MECHANICALLY TAMPED EARTH BACKFILL WITH PRIOR APPROVAL OF THE ENGINEER.
 7. 1" SAW CUT OUTSIDE OF TRENCH LINES, BITUMINOUS PATCH PLACED IN 2" LIFTS WITH TACK COAT ON EACH SIDE, EACH LIFT COMPACTED WITH SMALL ROLLER.



PAVEMENT REPLACEMENT
NOT TO SCALE



AIR RELEASE VALVE
NOT TO SCALE



DIRECTIONAL BORE CREEK CROSSING
NOT TO SCALE

 222 East Main Street, Ste. 1 - Georgetown, KY 40324	NO.	DATE	REVISIONS	BY
	1	JANUARY 2020	REVISIONS PER FIELD NOTES, RECORD DRAWING REVISIONS	BKL

RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWING 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: BLUEGRASS ENGINEERING, PLLC DATE: 01/20

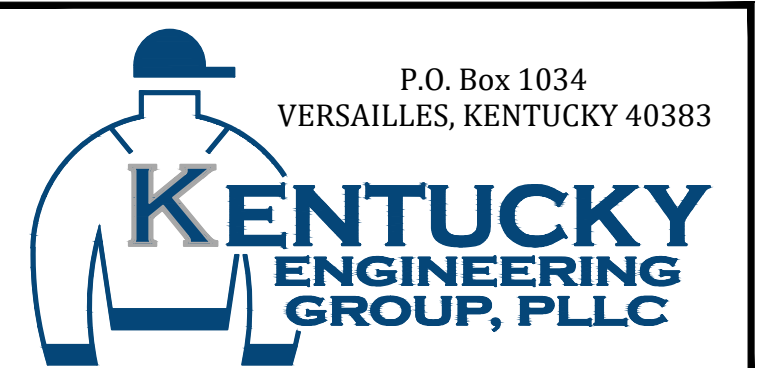
B:\PROJECTS\Rattlesnake Ridge WD\18020 - Phase 11 Water System Improvements\Drawings\Record Drawings\Contract 1\RD 15036-01-19.dwg KEG 6/30/20

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

NO.	DATE	REVISIONS	BY

DATE:	NOVEMBER, 2017
PROJECT MGR:	LRS
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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PHASE 11 WATER SYSTEM IMPROVEMENTS
FOR THE RATTLESNAKE RIDGE WATER DISTRICT

CONTRACT 1 - WATER MAIN EXTENSIONS
STANDARD DETAILS

PROJECT NO.
15036

SHEET NO.
19

BID DOCUMENTS