PHASE 11 WATER SYSTEM IMPROVEMENTS RATTLESNAKE RIDGE WATER DISTRICT CONTRACT 4 - CHANGE ORDER 2 THRU 7

BOARD MEMBERS

BILL GILBERT - CHAIRMAN JASON CARROLL MIKE COPLEY STEVE ISON RANDY STEAGALL W.C. GILBERT - GENERAL MANAGER

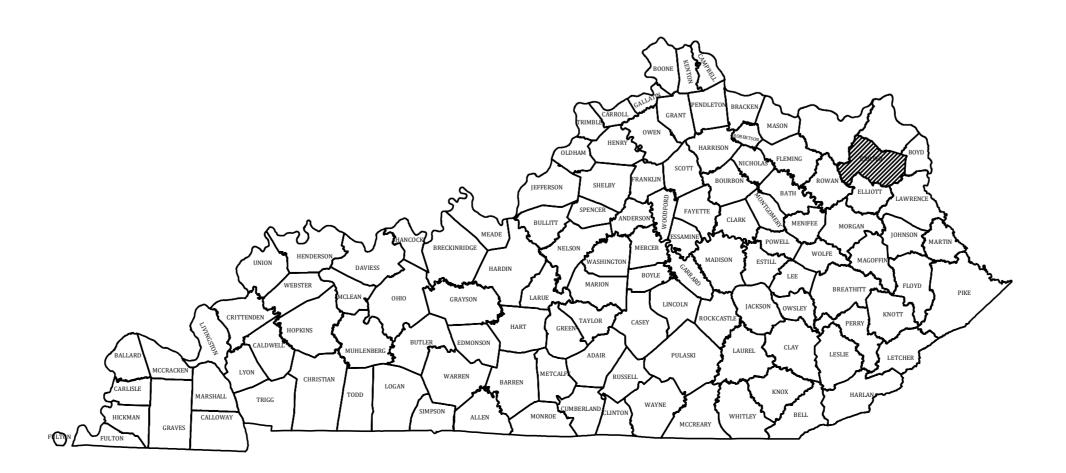
:\PR0JECTS\Rattlesnake Ridge WD\Contract 4 Record Drawings\18020-00 RD.dwg

DECEMBER 2020

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.

 BLUEGRASS ENGINEERING, PLLC
 DATE: 12/20



PROJECT NO. 18020

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANES AND THE ENGINEER TWO WORKING DAYS MAINING BEFORE BEGINNING CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONSTRUCTION THE CONTRACTOR SHALL BERESONANGE CONSTRUCTION THEASES OF CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONSTRUCTION THEASES OF CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONSTRUCTION THEASES OF CONSTRUCTION THE CONTRACTOR SHALL BERESONANGE CONSTRUCTION THEASES OF CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONSTRUCTION CONTRACTOR SHALL BERESONANGE CONTRACTOR SHALL BERESONANGE OF THE BERONANGE WITH THE PROPERIES CONTRACTOR SHALL INCLUED LA SERAARIE BIO TEMPORANE SI AND AD THE DEAGNATION ON THESE RANGE CONTRACTOR SHALL BERESONANGE OF THE INFORMATION SHALL BERESONANGE WITH REPRESONANGE OF THE STANDARD SHALL BERESONANGE ON THE ERER SHALL BE REPORDERING BOARD DO CONTRACTOR SHALL BE CONTRACTOR SHALL BERESONANGE OF THE DEAGNATION ON THESE RANGE CONTRACTOR SHALL BERESONANGE OF THE DEAGNATION SHALL BE REPRESONANGE ON THE STANDARD SHALL BE CONTRACTOR SHALL BE CONTRACTOR SHALL BE INFORMABLE ON TH	GENERAL NOTES
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SINCE DRAWINGS OF ALL MATERIALS BEING USED BHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRICE TO IN STALLATION. SUBTING THIS HAVE BEEN SHOWIN IN THEIR APPROXIMATE LOCATION CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL GOODDIANTE WITH A REPRESENTITE WHEN NORMON DRAKE DISTINUTURE UNIT B.CONTRACTOR SHALL GOODDIANTE WITH A REPRESENTITE WHEN NORMON DRAKE DISTINUTURE UNIT B.CONTRACTOR SHALL SOUTH A REPRESENTITE WHEN NORMON DRAKE DISTINUTURE ON THE CONTRACTOR SHALL SOUTH A REPORSIBILITY FOR HERARS OF UTILITIES AND OTHER MINOVEMENTS SHOWN ON THESE PLANS AND ALL OTHER INTERD TO REPLETE SHOW THE MAN THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR HERARS OF UTILITIES AND OTHER MINOVEMENTS SHOWN ON THESE PLANS AND ALL OTHER DISTINUT FOR REPLETE SHOW THE MAS NOT SHOWN ON THESE PLANS AND ALL OTHER DISTINUT FOR THESE IS ENDED, PLANS CONTRACTOR SHALL RESOLUTIED TO ARE: TERMOVARY DEVOLUTIES CADULESS, OTHER SHALL SHOULDES ON THEME TO ARE THE NORMARY RESPONSED. CONTRACTOR CONTRACTOR SHALL BREADINGS FOR THE THEOROPHY FERENCING ENDURES AND CONSTRUCTION CONTRACTOR IS TO COMPUTE THIS TO RECEIVE THEOROPHY OF EXCAVATION IN EARTH EXCEEDE FENCING BRACING, SHALL AND CONTRACT THE PLACEMENT ALL PRINCIPS SHALL HAVE 30° MINIMUM COVER. WREEPE UNSTALE AND CONTRACT THE REPORT OF EXCAVATION IN EARTH EXCEEDE THE BODS OF THE THEOROPHY EXCAVITION HALL BE INCLUDED THE CONTRACTOR IN EARTH EXCEEDE THE BODS OF THE THEOROPHY EXCAVITION HALL BE INCLUDED IN LUNP SUM BID. THE REPORT OF ALL PRINCIPS SHALL BE FOLLOWED ALL LORANTON IN EARTH THEORY ON EXCAVITION HALL BE INCLUDED IN LUNP SUM BID. THE REPORT ON CONTRACT TO RAIL DE SUM BID. ALL PRINCIPS AND AND AND THE THEORY FROM ALL STRUCTURES ACAVITABLE MATERIAL IS ENCOLUMED AND AND AND AND AND AND AND AND AND AN	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
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FERCING 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 SPECTING, BRACING, SHORING OR THE TRENCH OR EXCAVATION SHALL BE SUPPORTED BY SUBSTANTIAL SHEETING, BRACING, SHORING OR THE TRENCH SIDE SUCPED SUCPING THE SUBSO FITHE DITCH WILL NOT NOT BE PERMITTED IN STREETS, ROADS, NARROW RICHTS-O-FWAY OR OTHER CONSTRUCTED AREAS UNLESS OTHER WISE SPECIFIED. THE STATENCH SUBS OF THE DITCH WILL NOT NOT BE PERMITTED IN STREETS, ROADS, NARROW RICHTS-OF-WAY OR OTHER CONSTRUCTED AREAS UNLESS OTHER WISE SPECIFIED. THE STATUS FUNDADOS 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 FRIGOT DE BEGINNING CONTRACTOR SHALL DETAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS FRIGOT DE BEGINNING CONTRACTOR SHALL DETAIN AND ADDITIONAL COST TO THE DUTCHLINE. • INAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCTION. • ALL VALVES & HYDRANTS SHALL BE LOCATED AT THE CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL. DEPTH IN HIS BID PRICE. AT THE CONTRACTOR OF SERVICES. VALVES, & HYDRANT ORI	BUILDINGS, FENCES, TREES, SHRUBS, ETC. AND REPLACEMENT OF SAID ITEMS AFTER CONSTRUCTION
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 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: <u>SERVICE LINE DIAMETER</u> MAXIMUM LENGTH 3/4 INCH 125 FEET 1.1NCH 150 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 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 6" LARGER THAN CARRIER PIPE. STEEL CASING MINIMUM 6" LARGER ALL PVC CASING SHALL BE MINIMUM OF 6" LARGER THAN CARRIER PIPE. STEEL CASING MINIMUM 6" LARGER ALL EXISTING SERVICE LINE SHALL BE REPLACED W/NEW 3/4" PE CL. 250 SERVICE LINE UNLESS EXISTING LINE IS 1". ANY MAILBOX THAT IS REMOVED FOR THE INSTALLATION OF THE WATER MAIN MUST BE RE-INSTALLED ONCE THE WATER MAIN HAS BEEN INSTALLED. 	CONSTRUCTION TO AVOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING
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ALL CONNECTIONS BETWEEN THE PVC AND HDPE MUST BE SEALED IN PLASTIC AND CONCRETED.	
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RAL NOTES

E AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN ED AND RECONNECTED TO THE NEW LINE

ERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND IG HAS BEEN SUCCESSFULLY COMPLETED

OF ALL BAC-T RESULTS MUST BE PROVIDED TO THE OWNER PRIOR TO RECONNECTS OF ANY

AWG INSULATED COPPER LOCATOR WIRE SHALL BE TAPED TO THE TOP OF THE WATER MAIN PIPE. ULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED OUTSIDE ALL VALVE BOXES W/ SLACK TO ALLOW ACCESS TO THE LOOPS.

ONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR IECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL , PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.

NUP AND RESTORATION

PECIFICALLY APPROVED BY THE OWNER AND ENGINEER, <u>CLEANUP OF DISTURBED AREAS SHALL BE</u> RENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO AN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS EMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER CH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE LL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME HE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

TRUCTION IN KTC RIGHT-OF-WAY

FECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND RUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 FROM THE SHOULDER BREAK POINT.

CESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC OF-WAY, ADJOINING PROPERTY AND WATERWAYS.

LVES TO BE FLUSH W/ EXISTING GRADE.

ATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND ND OF ALL EXISTING CULVERTS AND HEADWALLS.

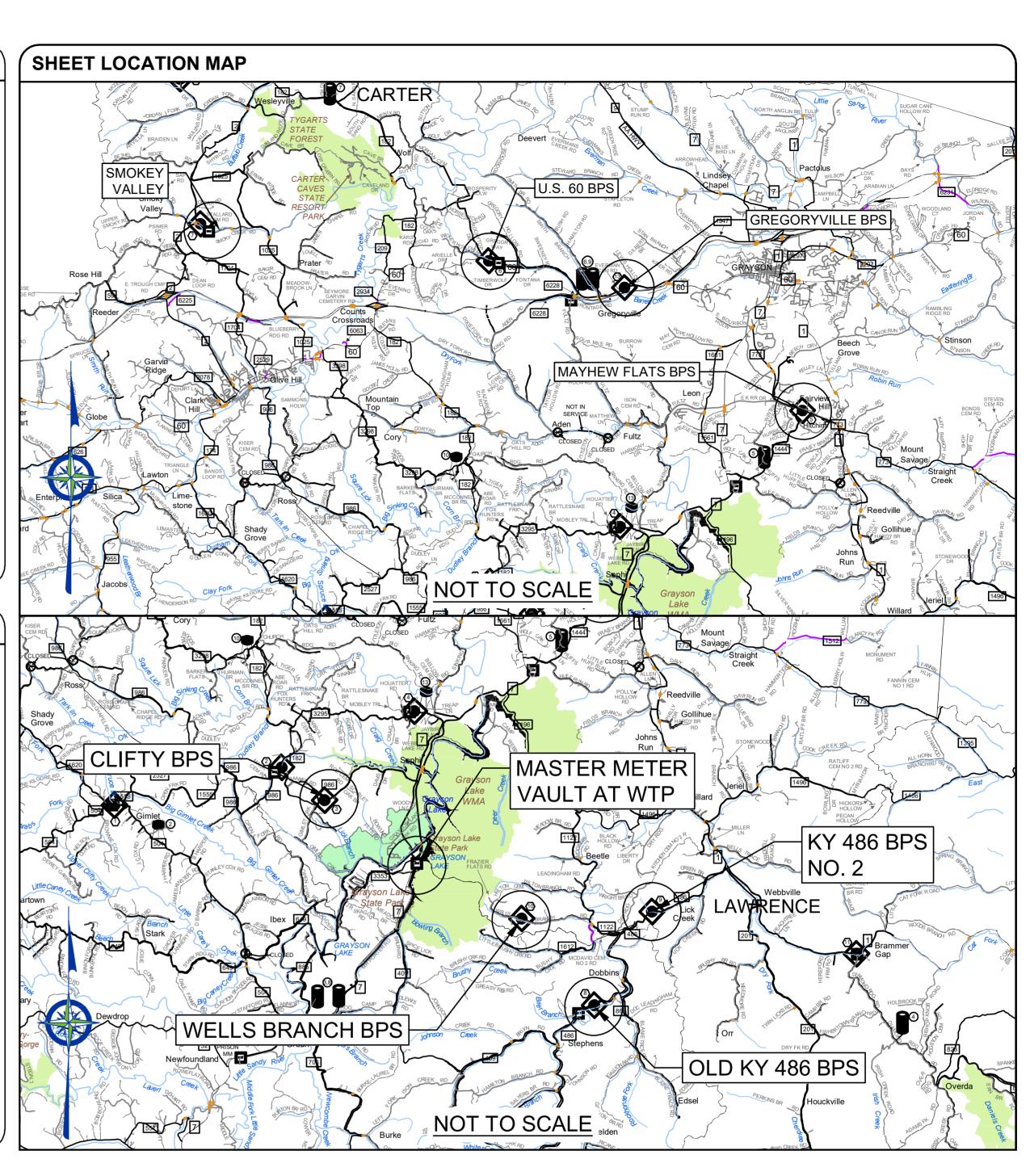
GROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.

RECOUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE LED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY BASIS.

GROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR LT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN SSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC CT PERMITS ENGINEER.

RECOUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF ENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.

YDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF OF-WAY LINE, OR OFF RIGHT-OF-WAY.



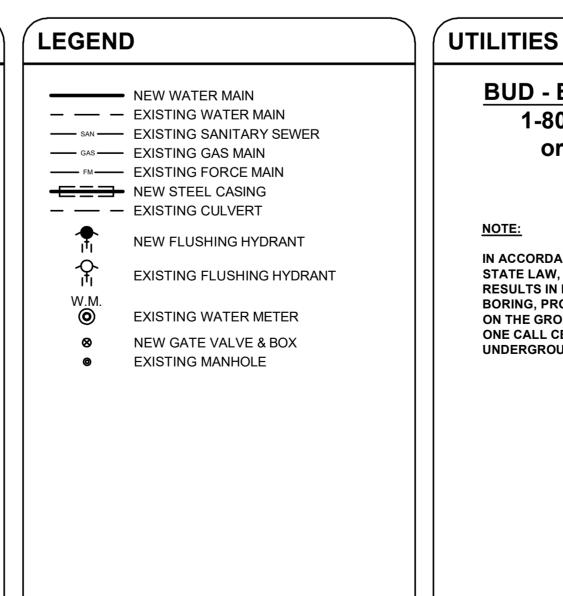
OF DRAWINGS

<u>.</u>	DESCRIPTION:
	COVER GENERAL NOTES
	KY 486 BOOSTER PUMP STATION & WATER MAIN & FILTER NO. 1
	AT WATER TREATMENT PLANT
	US 60 BOOSTER PUMP STATION & CLIFTY BOOSTER PUMP
	STATION
	WELLS BRANCH BOOSTER PUMP STATION & SMOKEY VALLEY
	BOOSTER PUMP STATION
	GREGORYVILLE BOOSTER PUMP STATION & MAYHEW FLATS
	BOOSTER PUMP STATION
	NEW MASTER METER VAULT AT WATER TREATMENT PLANT
	KY 486 AERIAL

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: <u>12/20</u>

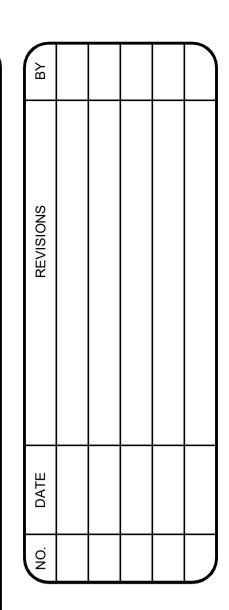


BUD - Before You Dig 1-800-752-6007 or DIAL 811

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.

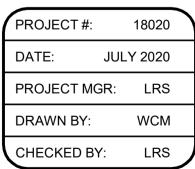
WATER DISTRICT

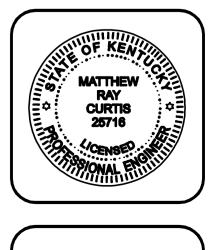
RATTLESNAKE RIDGE WATER DISTRICT PHONE: 606-474-7570



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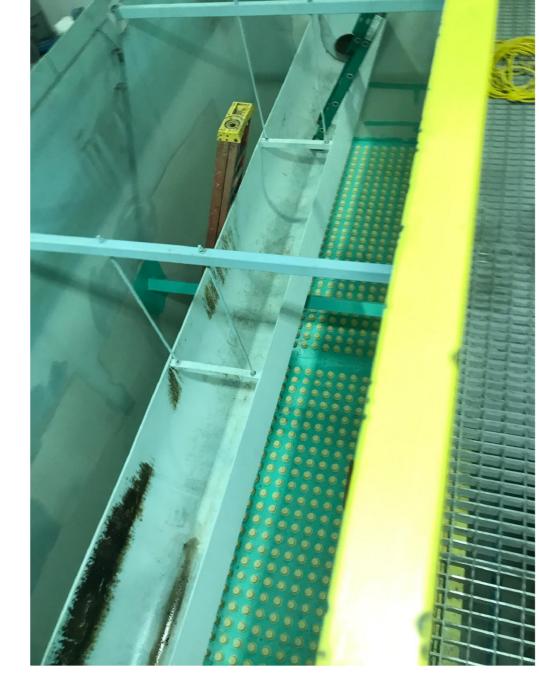




INTERIOR PUMPS & PIPING







EXTERIOR PUMP STATION

NEW VFD'S





KY 486 BOOSTER PUMP STATION

NOTES

PUMP STATION INFORMATION

- 3-HP DUPLEX SKID MOUNTED PUMP STATION
 - MODEL CR-5 GRUNDFOS PUMPS
 - 25 GPM AT 215' TDH

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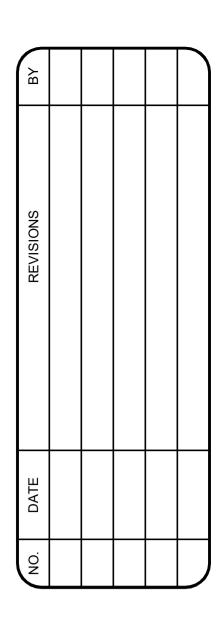
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- VFD'S CONVERSION OF 230 V SINGLE PHASE TO THREE PHASE
- ELECTRIC SERVICE
- 10' X 12' METAL BUILDING, LOCKED
- CRUSHED STONE GRAVEL ENTRANCE W/ PVC CULVERT PIPE
- SEE SHEET NO. 7 FOR WATER MAIN



NOTES

FILTER NO. 1 INFORMATION

- REPAIR EXISTING FILTER AT THE WATER TREATMENT PLANT WHICH INCLUDES THE REMOVAL AND REPLACEMENT OF THE DAMAGED /2" STEEL NOZZLE PLATE AND CROSS BRACE **RE-INSTALL WATER TRAY AND BRACING**
- NEW PLATE AND UNDER DRAIN SHALL RECEIVE A 3-COAT **EPOXY PAINT TO 12-5 MILS AFTER AN S-10 BLAST.**
- THE SIDES SHALL BE TOUCHED UP AS NEEDED WITH A ONE COAT 16 MINIMUM MILS EPOXY
- ALSO INCLUDED SHALL BE 1000 NEW PREFABRICATED FILTER **NOZZLES INSTALLED IN EACH OF THE PORTS**
- THE NEW FILTER MEDIA SHALL BE ORDERED BY THE OWNER BUT WILL INCLUDE NEW SAND AND ANTHRACITE TO THE
- LEVELS AS SAME, OR DETERMINED BY OWNER
- THE EXISTING AIR LINE ON FILTER 1 SHALL ALSO BE REPAIRED

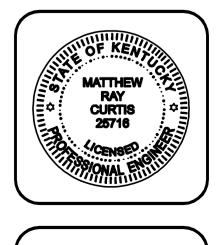


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DATE: 12/20 BY: BLUEGRASS ENGINEERING, PLLC



PROJECT #:	18020
DATE:	JULY 2020
PROJECT MO	GR: LRS
DRAWN BY:	WCM
CHECKED B	Y: LRS



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This drawing has been prepared at the scale indicated. Reproduction of this drawing introduce inaccuracies of the listed scale. The graphic scale bar shall be used to determine actual scale.

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<u>NOTES</u> <u>CLIFTY PUMP STATION INFORMATION</u> • INSTALL 2 NEW 20 HP PUMPS AND MOTORS, 460V, 3 PHASE • INSTALL 2 NEW VARIABLE FREQUENCY DRIVES (VFD'S)	REVISIONS	
	NO. DATE	
	CHANGE ORDER CONTRACT 4	CLIFTY BPS US 60 BPS
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US 60 PUMP STATION INFORMATION • INSTALL 2 NEW 40 HP PUMPS AND MOTORS, 460V, 3 PHASE • INSTALL 2 NEW VARIABLE FREQUENCY DRIVES (VFD'S)		E E R orgetown, K
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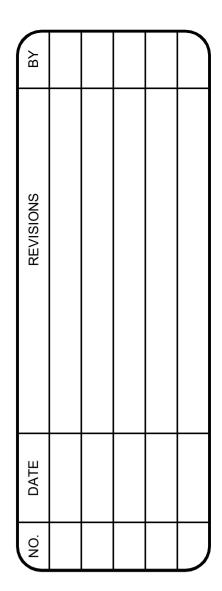


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NOTES

WELLS BRANCH BOOSTER PUMP STATION INFORMATION

- THIS WORK SHALL INCLUDE REMOVING THE EXISTING SIDING IN ORDER TO ACCESS THE INTERIOR DOG HOUSE TO REPLACE THE **EXISTING 3" PIPING AND APPURTENANCES**
 - THE EXISTING EXTERIOR SIDING SHALL THEN BE RETURNED TO **ITS ORIGINAL STATUS**
 - INSTALL 2 NEW VARIABLE FREQUENCY DRIVES (VFD'S)
 - **INSTALL 2 NEW 10 HP PUMPS & MOTORS**



4 CONTRACT BPS BPS Y VALLEY ORDER WELLS I SMOKEY CHANGE

NOTES

SMOKEY VALLEY BOOSTER STATION INFORMATION

INSTALL 2 NEW VARIABLE FREQUENCY DRIVES (VFD'S) TO **EXISTING PUMPS AND MOTORS** THIS WILL INCLUDE NEW PRESSURE TRANSMITTERS, LOW SUCTION SWITCH, & HEATER

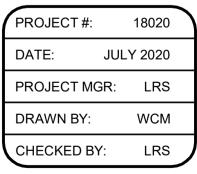


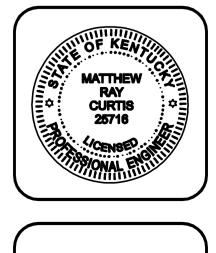
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DATE: <u>12/20</u>

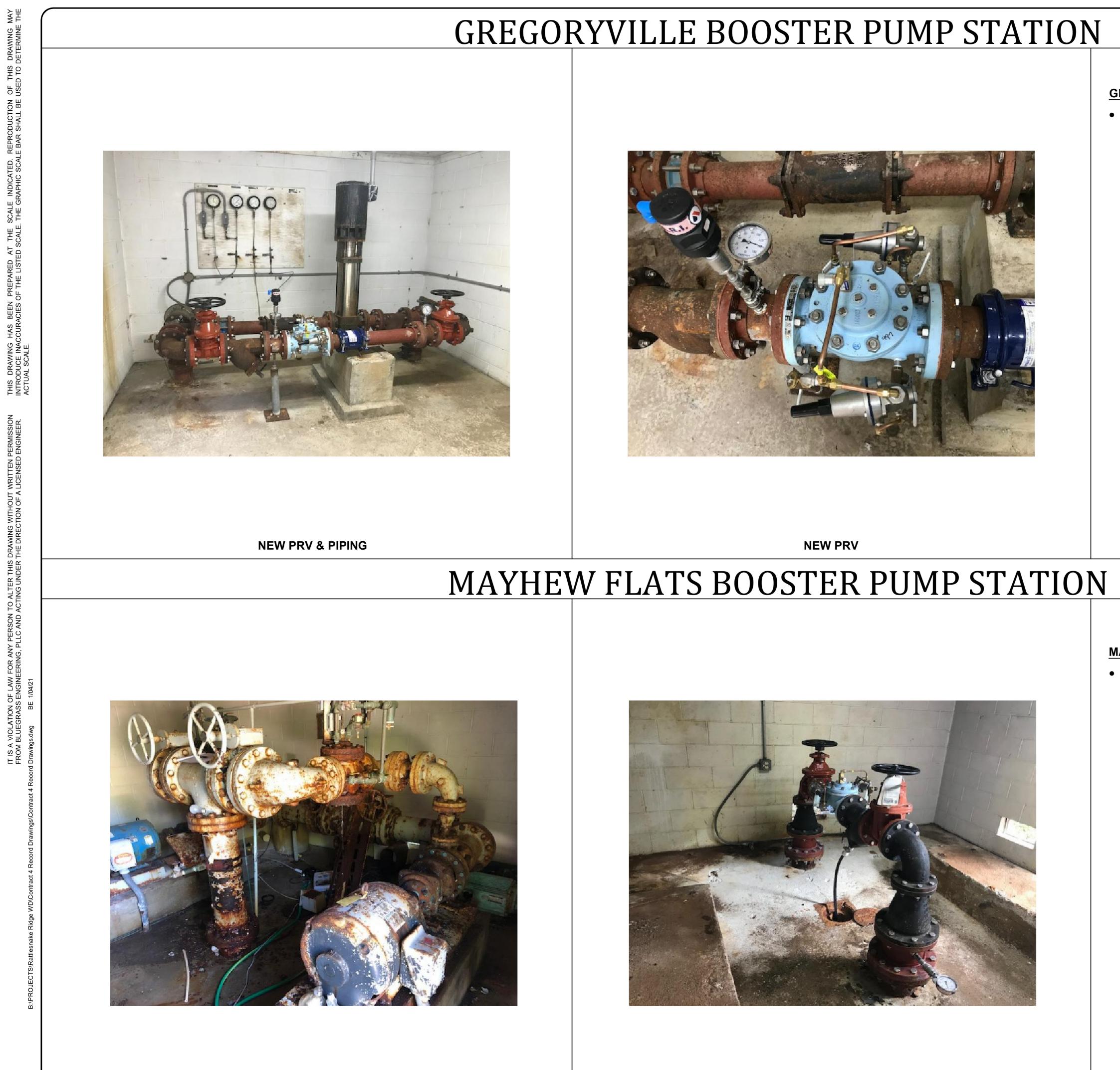
BY: BLUEGRASS ENGINEERING, PLLC







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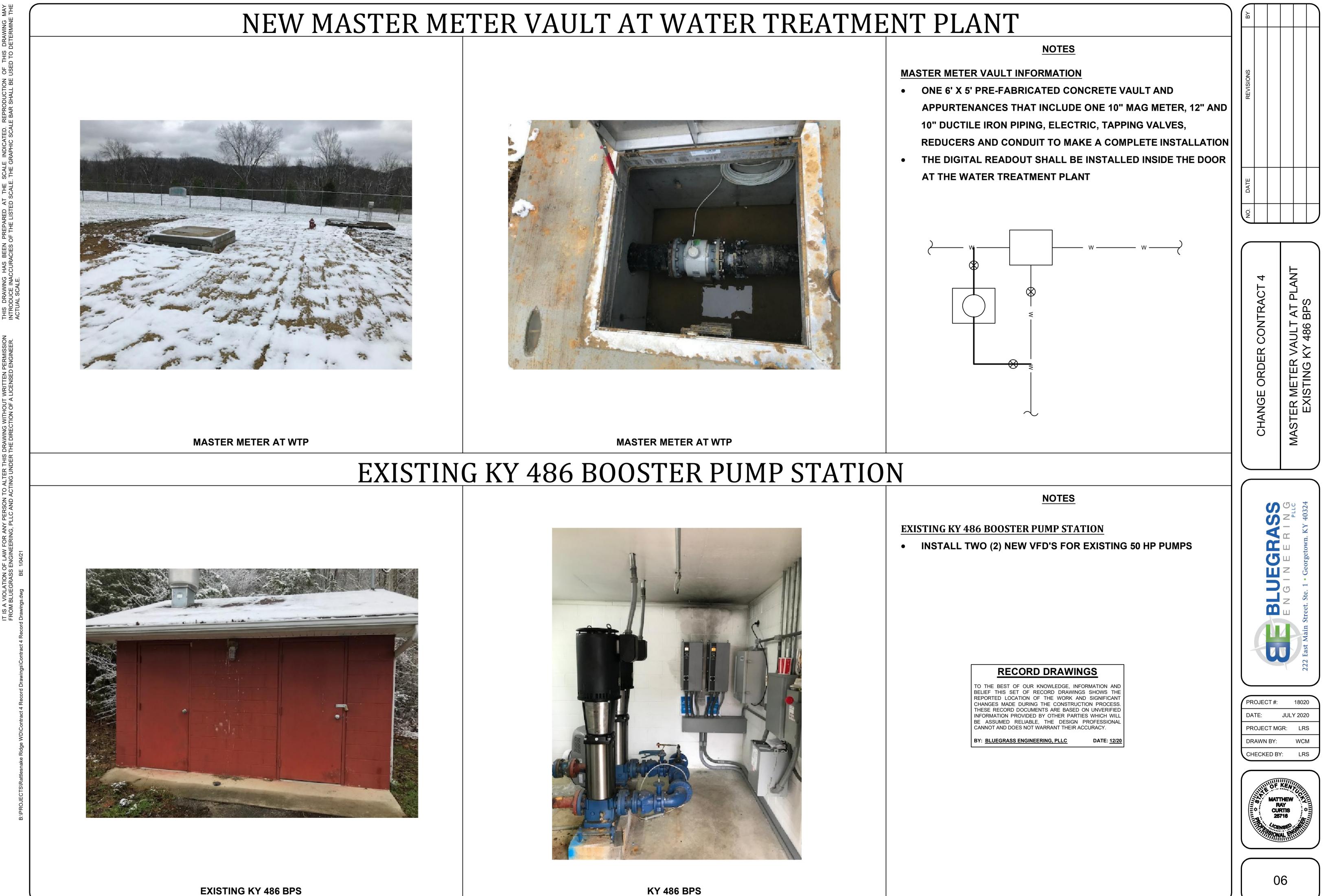


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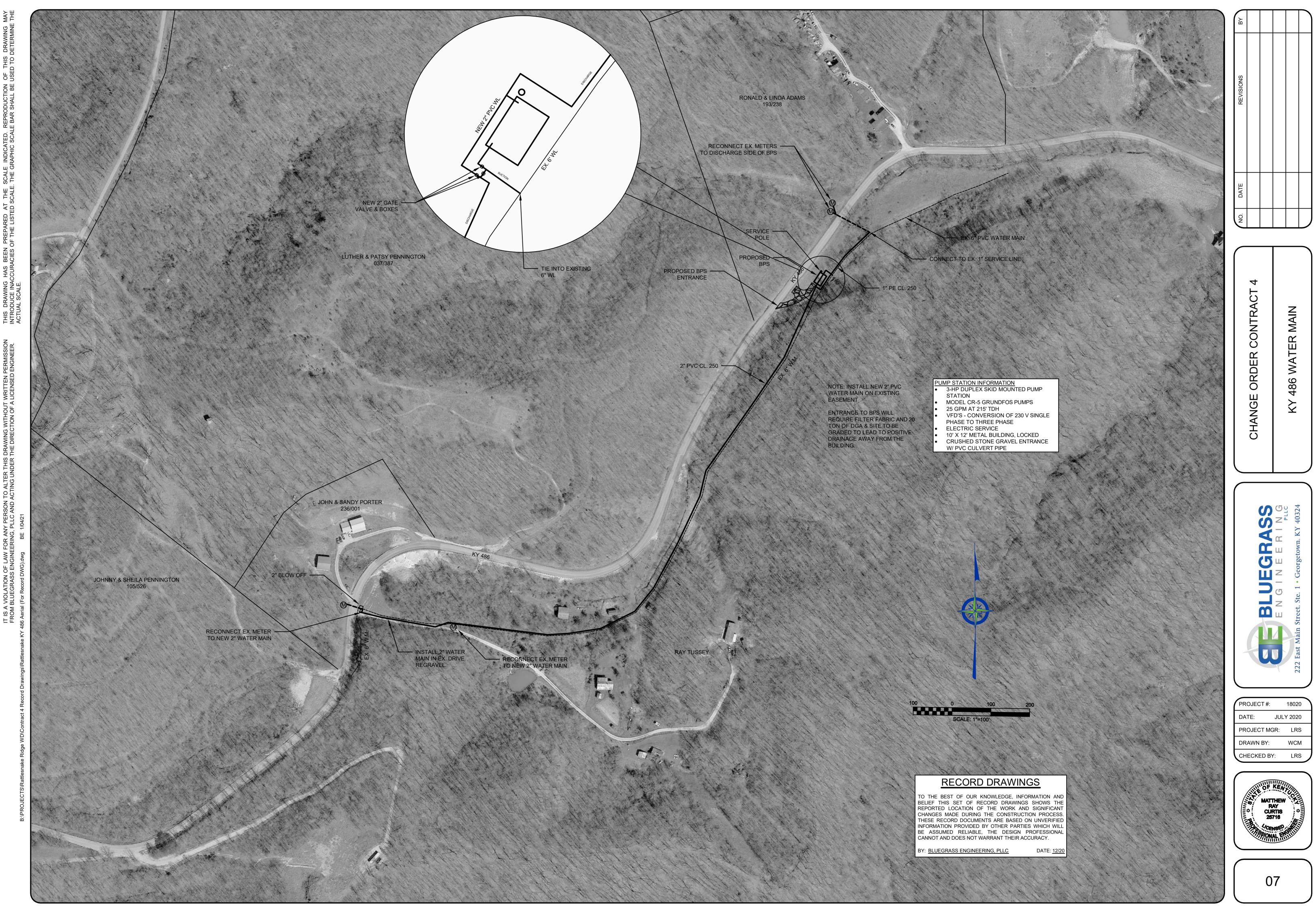
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