

**EXHIBIT B:**

PERMITS/ MAPS/ DESCRIPTION OF ROUTE

**REGARDING PERMITS:** NO PERMITS HAVE YET BEEN OBTAINED AS THE BREATHITT COUNTY WATER DISTRICT BELIEVES THIS PROJECT SHOULD BE GRANTED A DECLARATORY ORDER THAT A CERTIFICATE OF PUBLIC NEED AND CONVENIENCE IS NOT NECESSARY TO EXTEND/IMPROVE AN EXISTING WATERLINE.

**NESBITT ENGINEERING, INC.**

SERVING DEVELOPERS, INDUSTRY, BUSINESS AND GOVERNMENT BY PROVIDING PROVEN SOLUTIONS SINCE 1976

# **BREATHITT COUNTY WATER DISTRICT**

## **KY 30 EAST & WOLF CREEK WATERLINE EXTENSION PROJECT CONTRACT 1 - WATERLINES**

**JANUARY 2023**

### **WATER COMMISSIONERS**

**BOBBY THORPE JR - CHAIRMAN**

**SAMMIE TURNER - VICE CHAIRMAN**

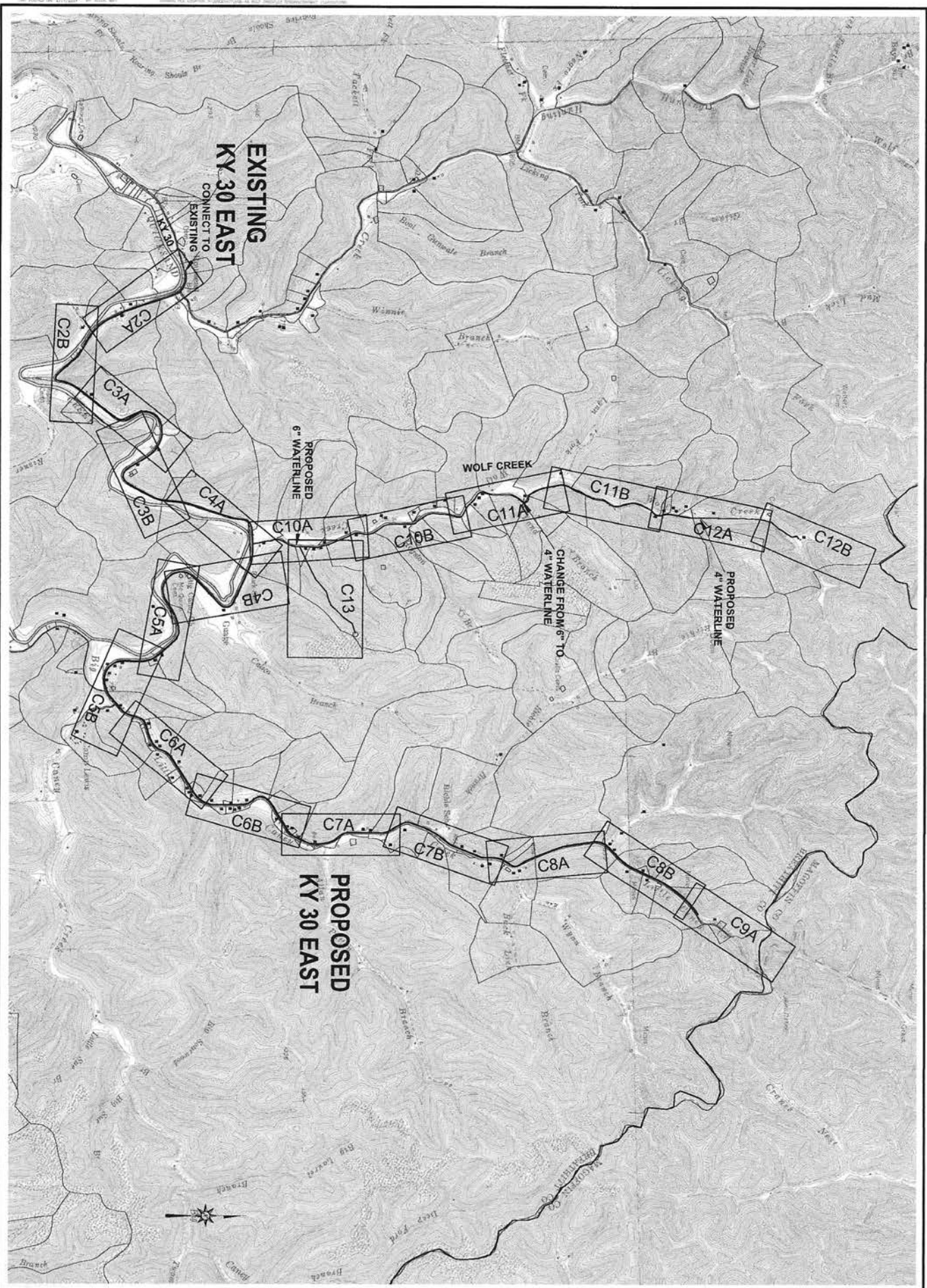
**EVA FUGATE - SECRETARY**

**CHERYL CAMPBELL - TREASURER**

**DAVID INGRAM - MEMBER**







**nesbitt engineering, inc.**  
 1000 Peachtree Street, N.E.  
 Atlanta, Georgia 30309  
 Phone: 404.525.8800  
 Fax: 404.525.8801  
 Website: www.nesbitt.com

Project: KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT

Drawn by: MMS  
 Date: 9/9/22  
 Scale: 1"=40'

Checked by: NTS  
 Date: 11/17/22

NOVEMBER 17, 2022

**PROPOSED KY 30 EAST**

**WOLF CREEK**

**CHANGE FROM 6" TO 4" WATERLINE**

**PROPOSED 4" WATERLINE**

**PROPOSED 6" WATERLINE**

**EXISTING KY 30 EAST**

**CONNECT TO EXISTING**

C10A, C10B, C11A, C11B, C12A, C12B, C13, C4A, C4B, C5A, C5B, C6A, C6B, C7A, C7B, C8A, C8B, C9A, C2A, C2B, C3A, C3B

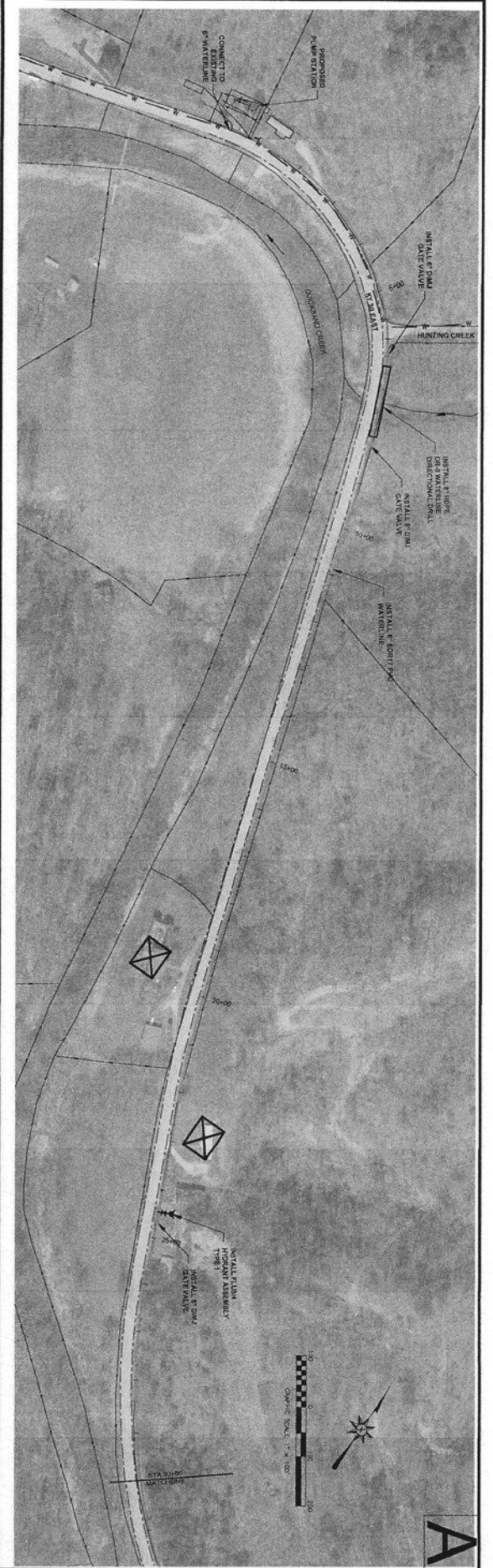
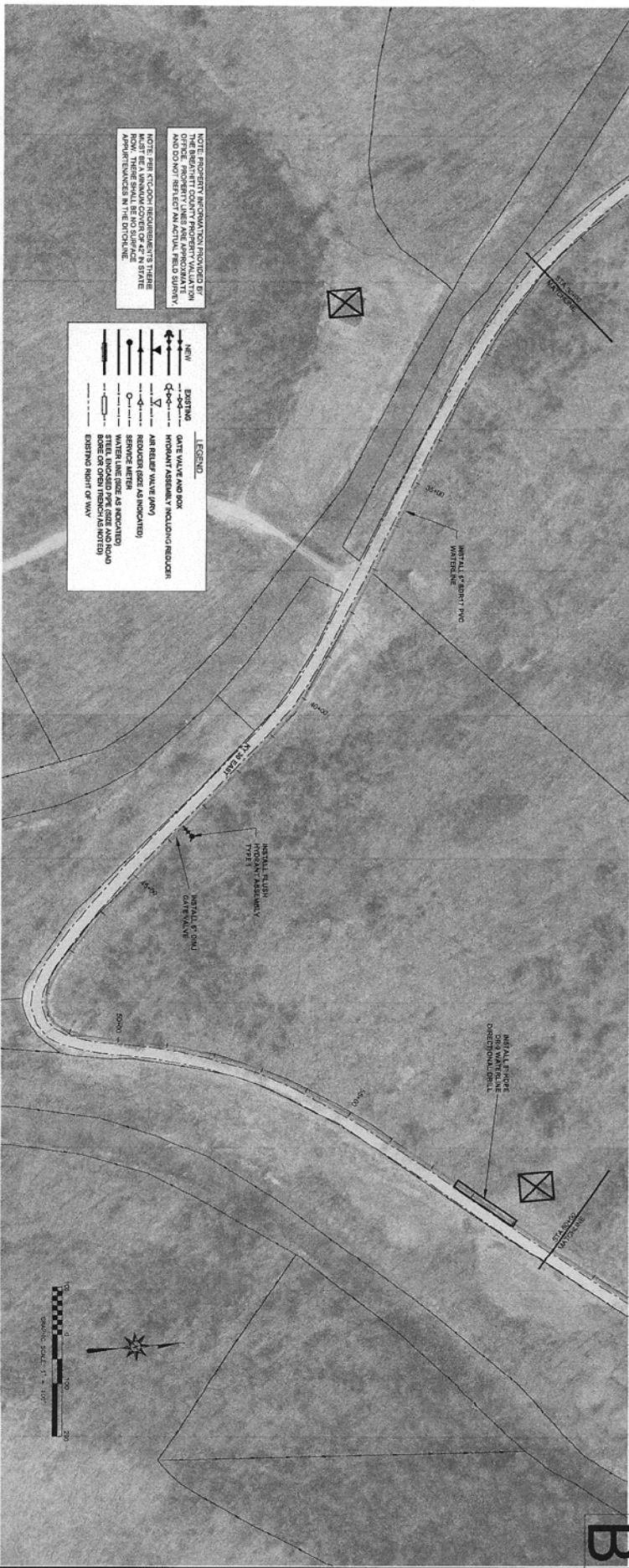
**nesbitt engineering, inc.**

**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION**  
**CONTRACT 1 WATERLINES**  
**BREATHITT COUNTY WATER DISTRICT**  
**BREATHITT COUNTY, KY**

**SHEET INDEX**

C-1

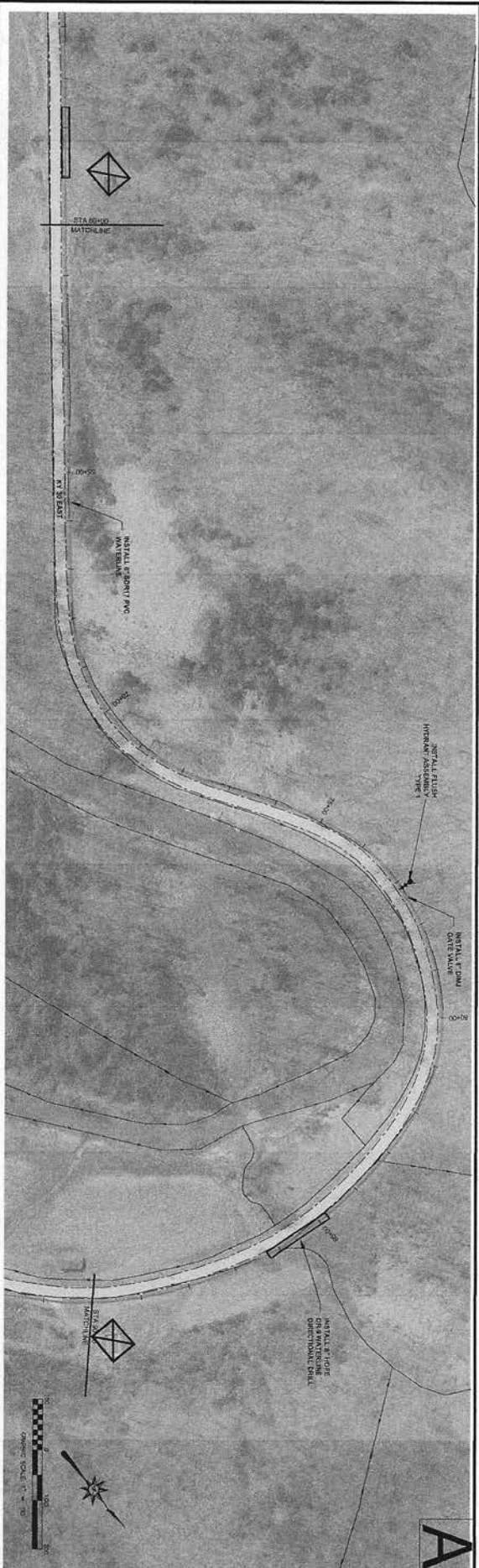
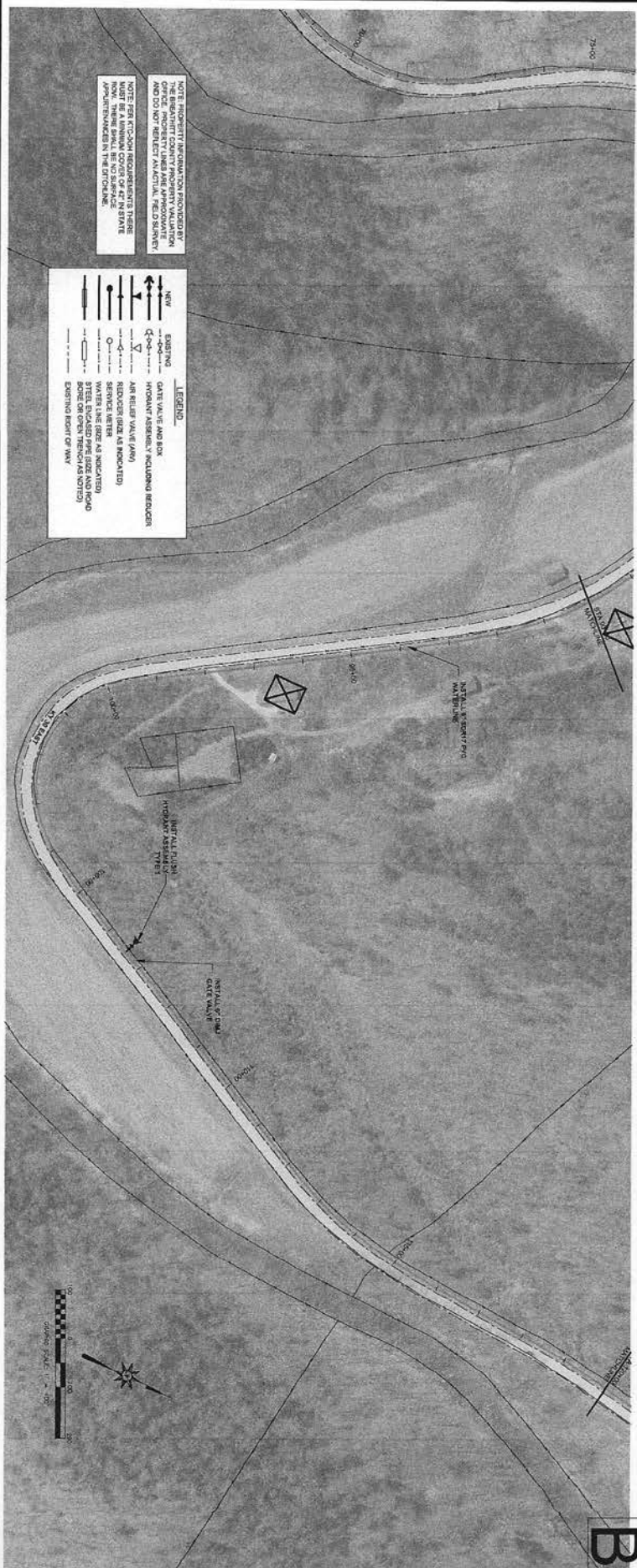




NOTE: PROPERTY INFORMATION PROVIDED BY OWNER. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.

NOTE: NEW CONDUIT REQUIREMENTS TO BE MET BY THE CONTRACTOR. ALL CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS.

LEGEND	
	NEW GATE VALVE AND BOX
	EXISTING GATE VALVE AND BOX
	NEW 12" CPVC WATERLINE
	EXISTING 12" CPVC WATERLINE
	NEW 12" CPVC WATERLINE WITH ENCASED PIPE
	EXISTING 12" CPVC WATERLINE WITH ENCASED PIPE
	NEW 12" CPVC WATERLINE WITH ENCASED PIPE AND ROAD
	EXISTING 12" CPVC WATERLINE WITH ENCASED PIPE AND ROAD
	NEW 12" CPVC WATERLINE WITH ENCASED PIPE AND ROAD AND SEWER
	EXISTING 12" CPVC WATERLINE WITH ENCASED PIPE AND ROAD AND SEWER
	NEW 12" CPVC WATERLINE WITH ENCASED PIPE AND ROAD AND SEWER AND STORM SEWER
	EXISTING 12" CPVC WATERLINE WITH ENCASED PIPE AND ROAD AND SEWER AND STORM SEWER



**nesbitt engineering, inc.**  
 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHTITT COUNTY WATER DISTRICT  
 MMS 998-48 AS SHOWN  
 NOVEMBER 17, 2022

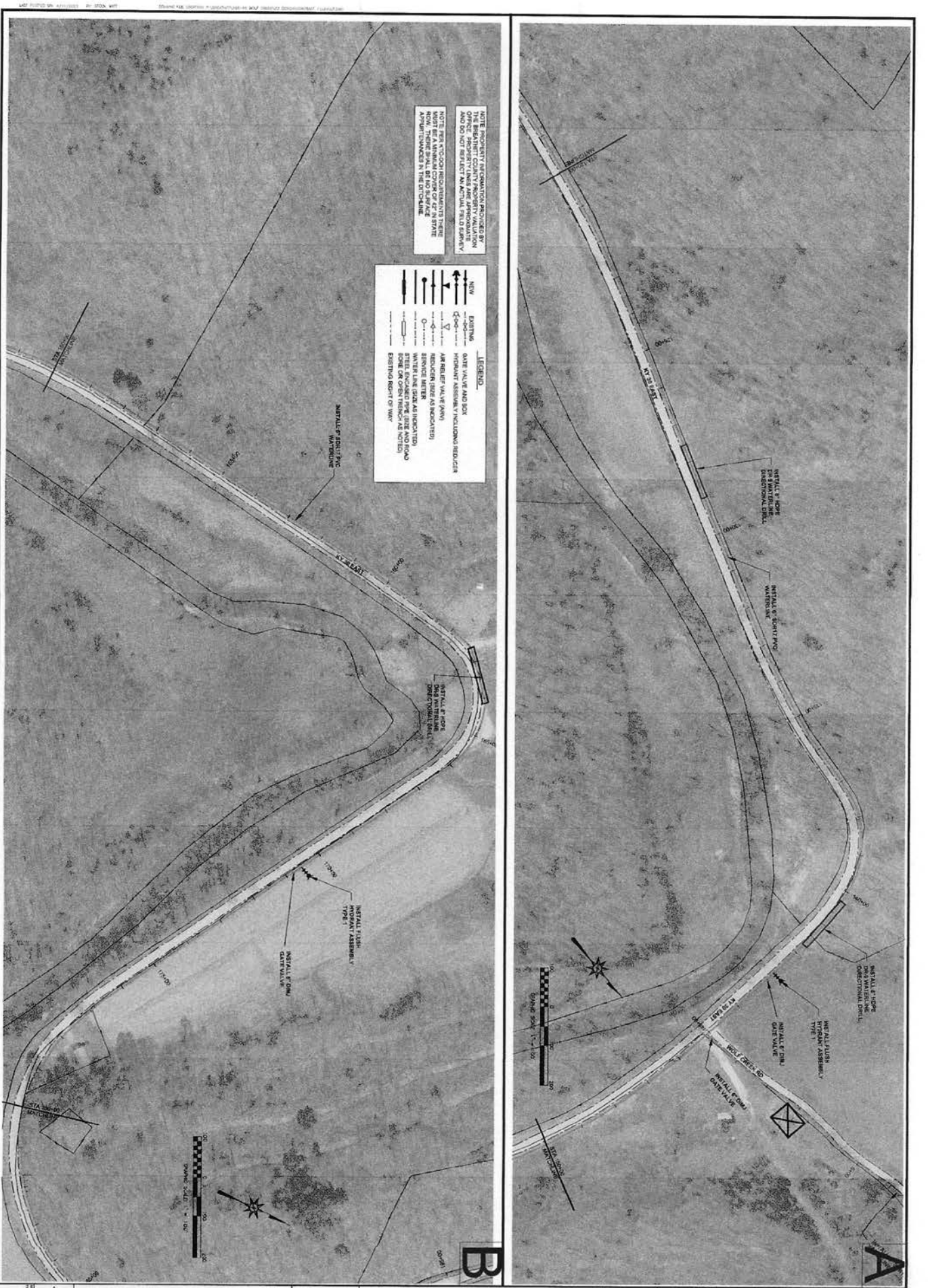


**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHTITT COUNTY WATER DISTRICT  
 BREATHTITT COUNTY, KY**

KY 30 EAST STA 60+00 - STA 120+00

**A**

**B**



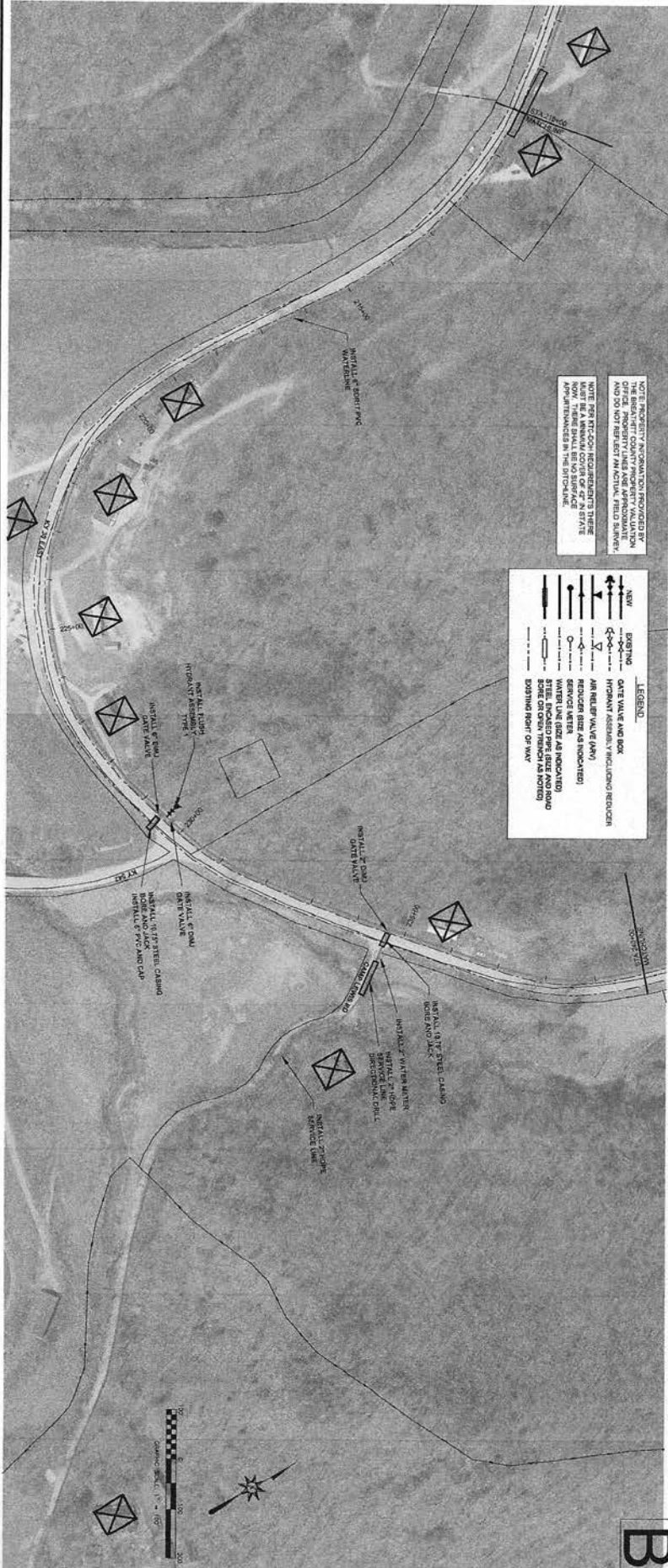
NOTE: PROPERTY INFORMATION PROVIDED BY OFFICE PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.

NOTE: THE PROPOSED WATERLINE EXTENSION IS SHOWN IN THIS DRAWING FOR INFORMATION ONLY. THE EXISTING WATERLINE IS SHOWN IN THIS DRAWING FOR INFORMATION ONLY. THERE SHALL BE NO SURFACE HYDROLOGICAL CHANGES IN THIS DRAWING.

LEGEND	
	NEW WATERLINE
	EXISTING WATERLINE
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY (INCLUDING REDUCER)
	AS SHOWN (SCALE 1:50)
	SERVICE METER
	WATER LINE END AS INDICATED
	STEEL ENCASEMENT PIPE (SEE AND FOLLOW EXISTING RIGHT OF WAY)

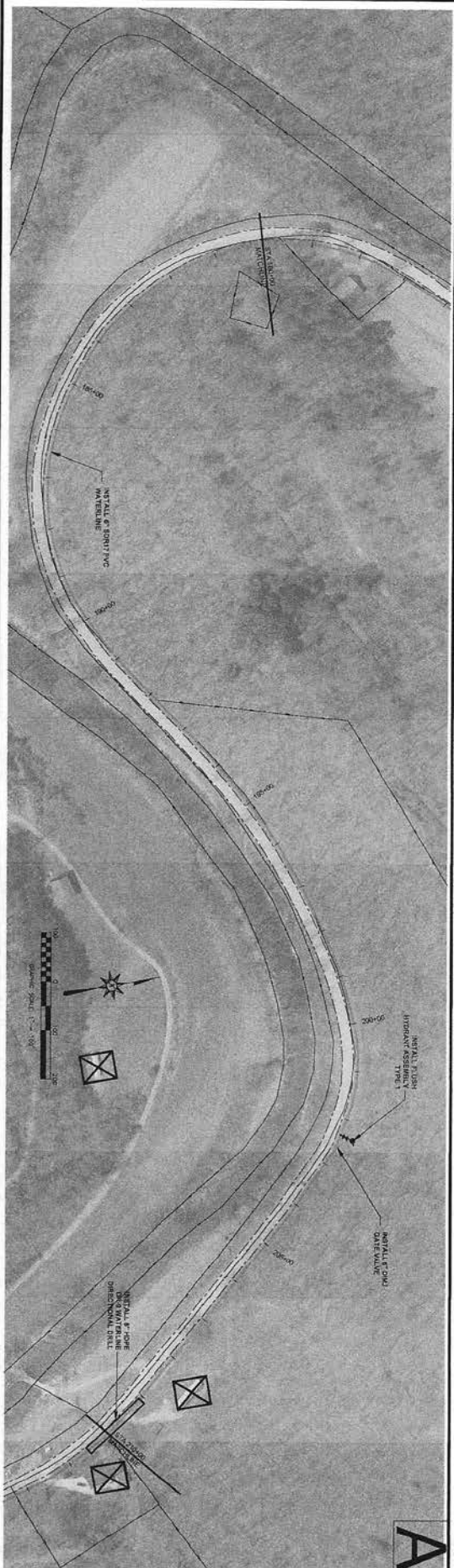
	<b>nesbitt engineering, inc.</b> <small>providing premier solutions since 1972</small>		<b>KY 30 EAST &amp; WOLF CREEK WATERLINE EXTENSION          CONTRACT 1 WATERLINES          BREATHITT COUNTY WATER DISTRICT          BREATHITT COUNTY, KY</b>
	<small>MMS 980-46 AS SHOWN</small>		<small>NOVEMBER 17, 2022</small>
	<small>C-4</small>		<small>1:50</small>
	<b>KY 30 EAST STA 120+00 – STA 180+00</b>		





NOTE: PROPERTY INFORMATION PROVIDED BY OTHER SOURCES AND NOT REFLECTED IN THIS DRAWING. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT ACTUAL FIELD SURVEY. NOTE: ELEVATIONS ARE IN FEET UNLESS OTHERWISE NOTED. ELEVATIONS SHALL BE AS INDICATED UNLESS OTHERWISE NOTED. ELEVATIONS SHALL BE AS INDICATED UNLESS OTHERWISE NOTED. ELEVATIONS SHALL BE AS INDICATED UNLESS OTHERWISE NOTED.

LEGEND	
	NEW WATERLINE
	EXISTING WATERLINE
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY (INCLUDING REDUCER)
	AIR RELEASE VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE VALVE (SIZE AS INDICATED)
	WATER LINE SIZE (AS INDICATED)
	STEEL CASING PIPE (SIZE AND ROAD POSITIONING AS INDICATED)
	SPOT ELEVATION



**B**

**A**

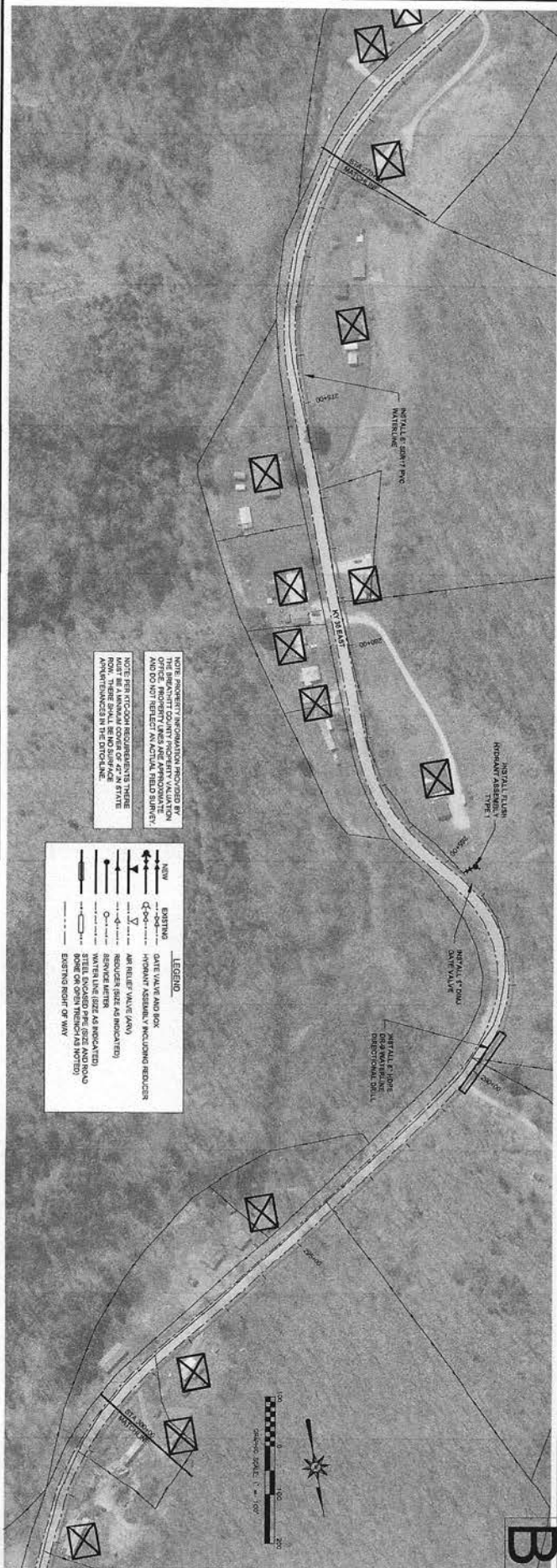
C-5



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 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT  
 MMS 998-48 AS SHOWN  
 NOVEMBER 17, 2022

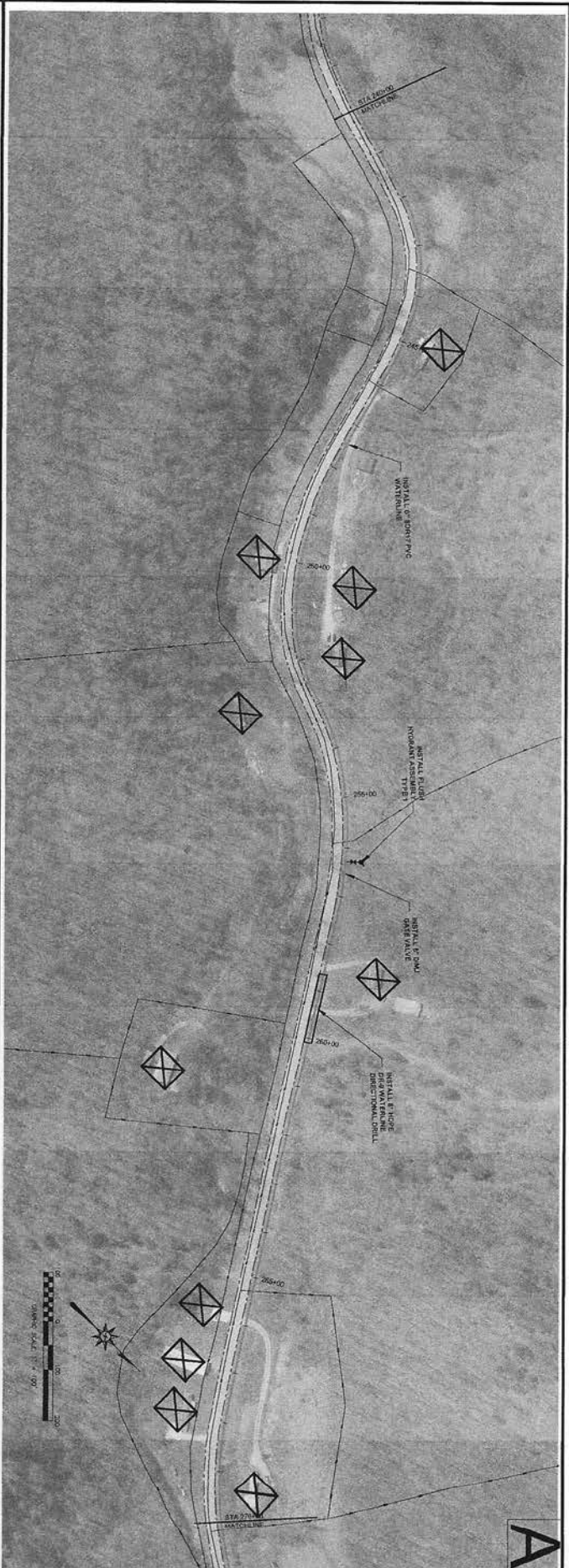


**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY**  
 KY 30 EAST STA 180+00 - STA 240+00

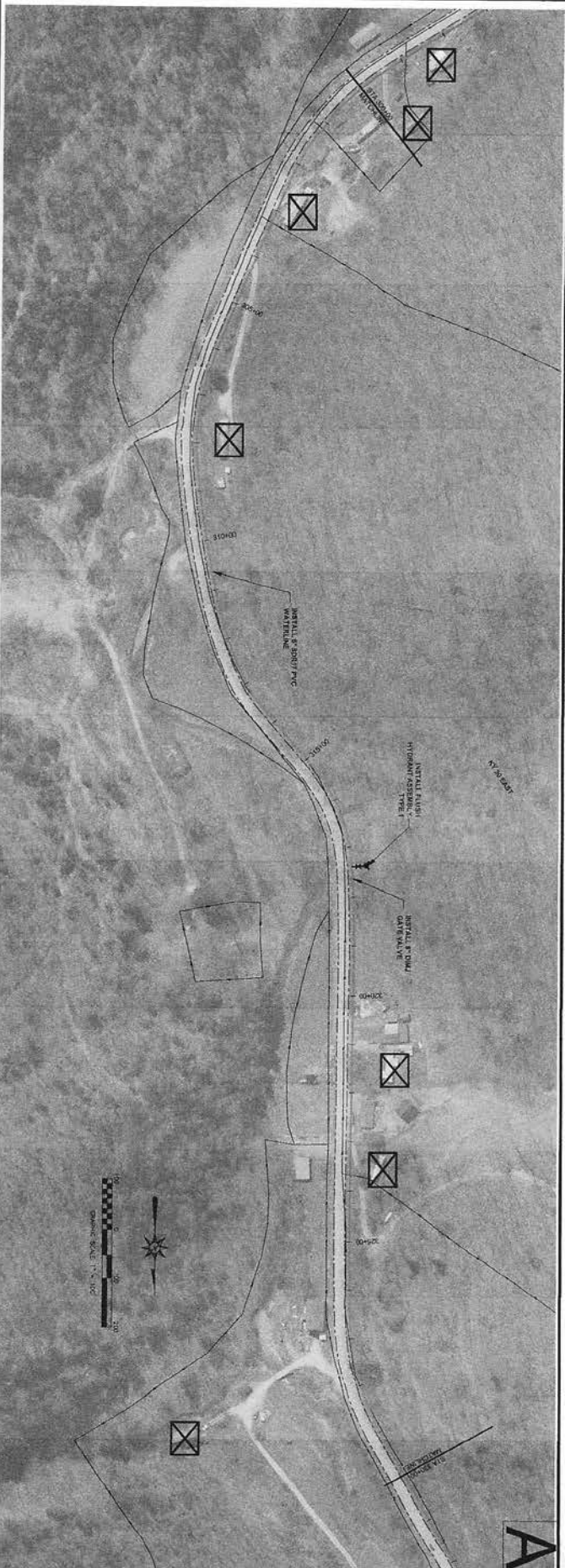
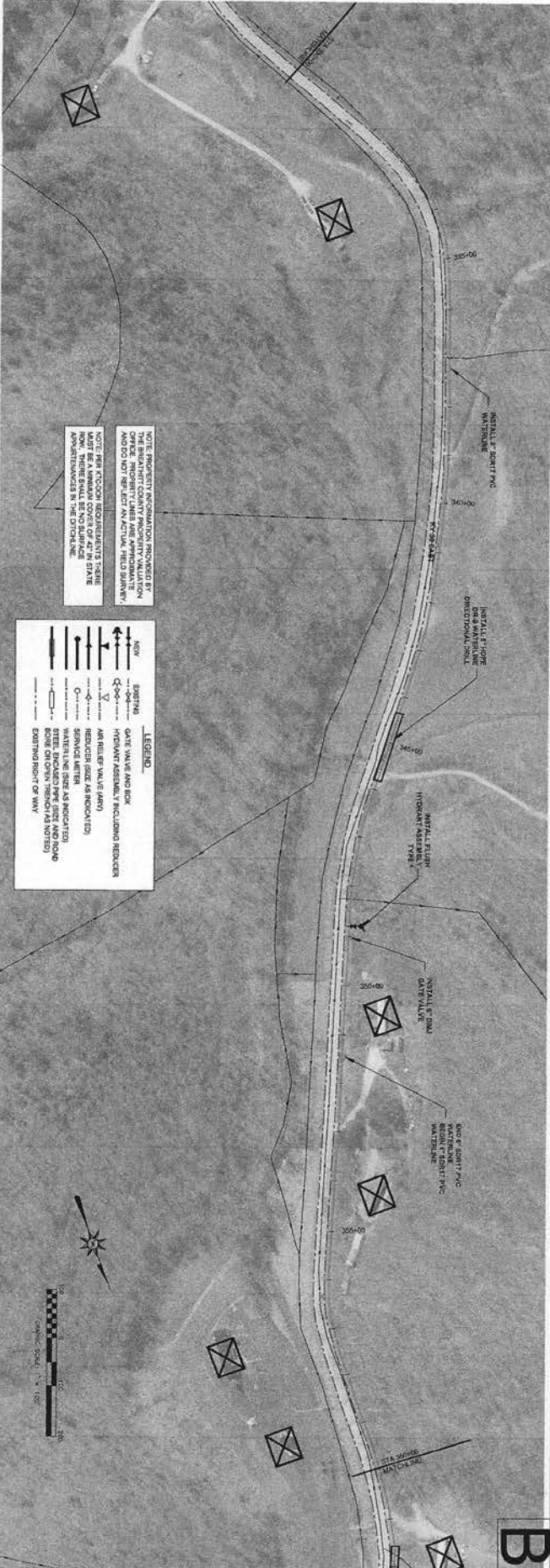


NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHTHIT COUNTY PROPERTY VALUATION AND CO. NOT REFLECT AN ACTUAL FIELD SURVEY.  
 NOTE: PER TCDOM REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 47" IN STATE AREAS.  
 ADJUSTMENTS IN THE STRUCTURE.

LEGEND	
	NEW GATE VALVE AND BOX
	EXISTING GATE VALVE AND BOX
	NEW HYDRANT ASSEMBLY INCLUDING REDUCER
	EXISTING HYDRANT ASSEMBLY INCLUDING REDUCER
	NEW AIR RELIEF VALVE (ARV)
	EXISTING AIR RELIEF VALVE (ARV)
	NEW REDUCER (SIZE AS INDICATED)
	EXISTING REDUCER (SIZE AS INDICATED)
	NEW RESERVOIR FILTER
	EXISTING RESERVOIR FILTER
	NEW STEEL ENCASED PIPE (SEP) AND BOX (BORE OR OVERTRENCH AS NOTED)
	EXISTING RIGHT OF WAY



 C-6	<b>nesbitt engineering, inc.</b> <small>providing superior solutions since 1972</small> KY 30 EAST & WOLF CREEK WATERLINE EXTENSION BREATHTHIT COUNTY WATER DISTRICT		<b>KY 30 EAST &amp; WOLF CREEK WATERLINE EXTENSION                  CONTRACT 1 WATERLINES                  BREATHTHIT COUNTY WATER DISTRICT                  BREATHTHIT COUNTY, KY</b>
MVS 998-48 AS SHOWN NOVEMBER 17, 2022	KY 30 EAST STA 240+00 - STA 300+00		



NOTE: PROPERTY INFORMATION PROVIDED BY THE CLIENT. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY. THIS INFORMATION IS FOR INFORMATIONAL PURPOSES ONLY. THERE SHALL BE NO SURFACE ENCROACHMENTS IN THIS DISTRICT.

LEGEND	
	NEW
	EXISTING
	DATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	ANTI-SUCK VALVE (AVV)
	REDUCER (SIZE AS INDICATED)
	SERVICE LATERAL
	WATERLINE (SIZE AS INDICATED)
	EXISTING RIGHT OF WAY

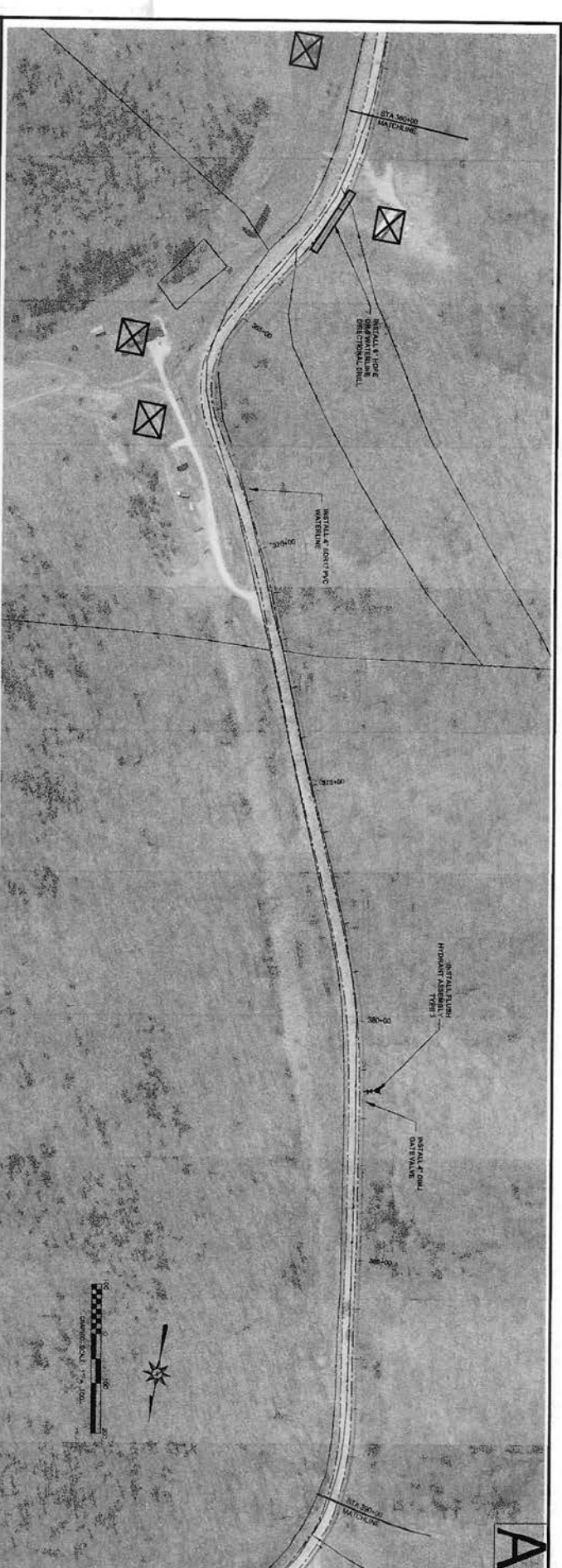
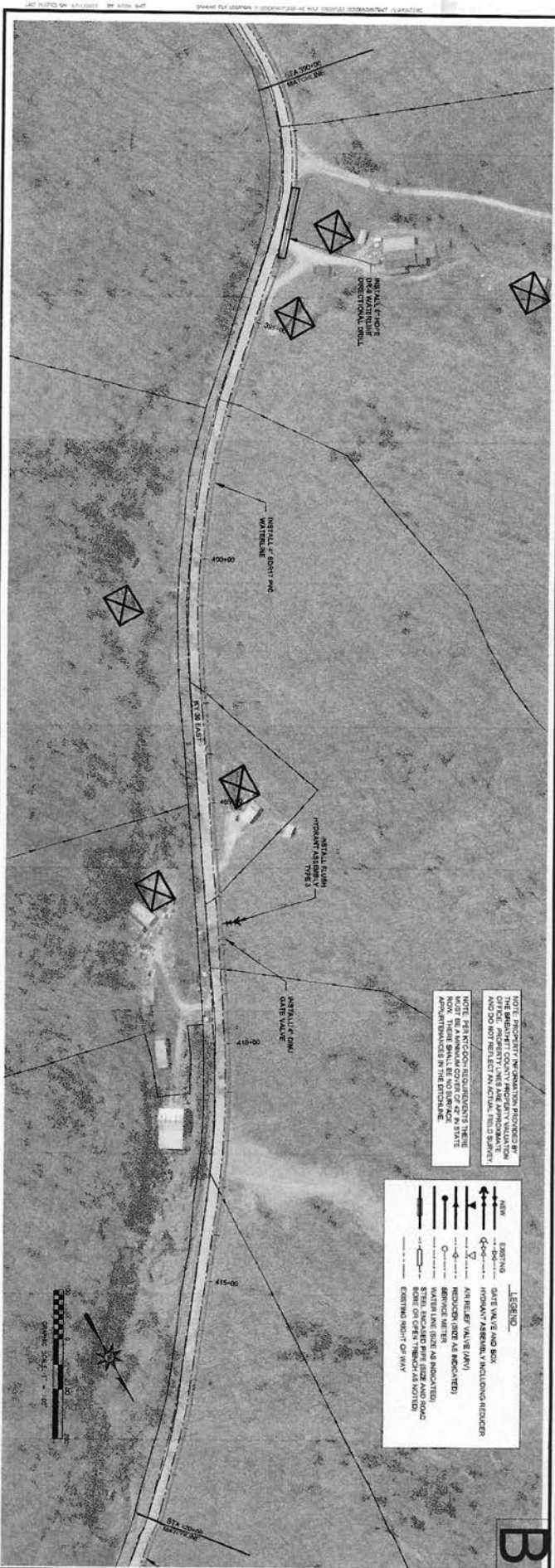


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 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHTHIT COUNTY WATER DISTRICT  
 MMS 998-46 AS SHOWN  
 NOVEMBER 17, 2022



**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHTHIT COUNTY WATER DISTRICT  
 BREATHTHIT COUNTY, KY**  
 KY 30 EAST STA 300+00 - STA 360+00

DATE PLOTTED: 11/17/2022 10:57:00 AM  
 PROJECT: KY 30 EAST & WOLF CREEK WATERLINE EXTENSION CONTRACT 1 WATERLINES



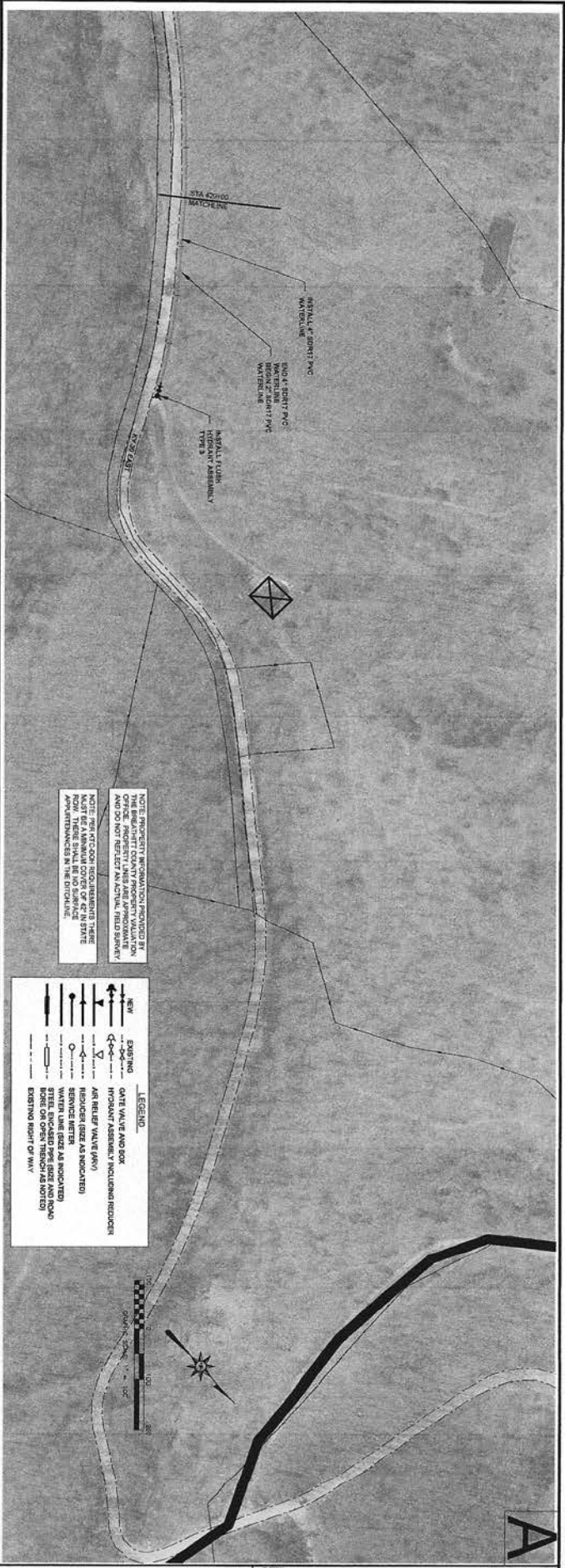
NOTE: RECORDS OF CONSTRUCTION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION OFFICE. PROPERTY LINES ARE APPROXIMATE AND SHOULD BE CHECKED IN FIELD. THIS BEING A NOTE: ERECTION REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 2' IN STATE APPROPRIATIONS IN THE DISTANCE

LEGEND	
	PIPE
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	FIRE HYDRANT
	FIRE HYDRANT WITH RISER
	FIRE HYDRANT WITH RISER AND METER
	FIRE HYDRANT WITH RISER AND METER AND BACKFLOW PREVENTER
	FIRE HYDRANT WITH RISER AND METER AND BACKFLOW PREVENTER AND SERVICE METER
	FIRE HYDRANT WITH RISER AND METER AND BACKFLOW PREVENTER AND SERVICE METER AND WATER LINE SIZE AS INDICATED
	FIRE HYDRANT WITH RISER AND METER AND BACKFLOW PREVENTER AND SERVICE METER AND WATER LINE SIZE AS INDICATED AND BACKFLOW PREVENTER AND METER ON CROSS THROUGH A KNOT IN EXISTING RIGHT-OF-WAY



	<b>nesbitt engineering, inc.</b>			<b>KY 30 EAST &amp; WOLF CREEK WATERLINE EXTENSION CONTRACT 1 WATERLINES BREATHITT COUNTY WATER DISTRICT BREATHITT COUNTY, KY</b>	
	<small>providing services since 1971</small>			<small>NOVEMBER 17, 2022</small>	
	KY 30 EAST & WOLF CREEK WATERLINE EXTENSION BREATHITT COUNTY WATER DISTRICT			AS SHOWN	
	MMS 998-48			KY 30 EAST STA 360+00 - STA 420+00	

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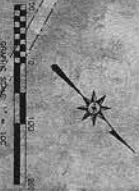


NOTE: PROPOSED INFORMATION PROVIDED BY OFFICE. PROPERTY LINES AND APPROXIMATELY AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.

NOTE: FOR ALL INFORMATION CONCERNING THESE PROJECTS, CONTACT THE ENGINEER. THERE SHALL BE NO SURFACE OR SUBSURFACE APPOINTMENTS IN THE DITCHES.

**LEGEND**

	NEW WATERLINE
	EXISTING WATERLINE
	GATE VALVE AND BOX
	AIR RELIEF VALVE (ARV)
	INFLOW ASSEMBLY INCLUDING REORDER
	SERVICE METER
	WATER LINE ENCLOSED PER EZE AND ROAD
	EXISTING RIGHT OF WAY



**B**

**A**

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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT

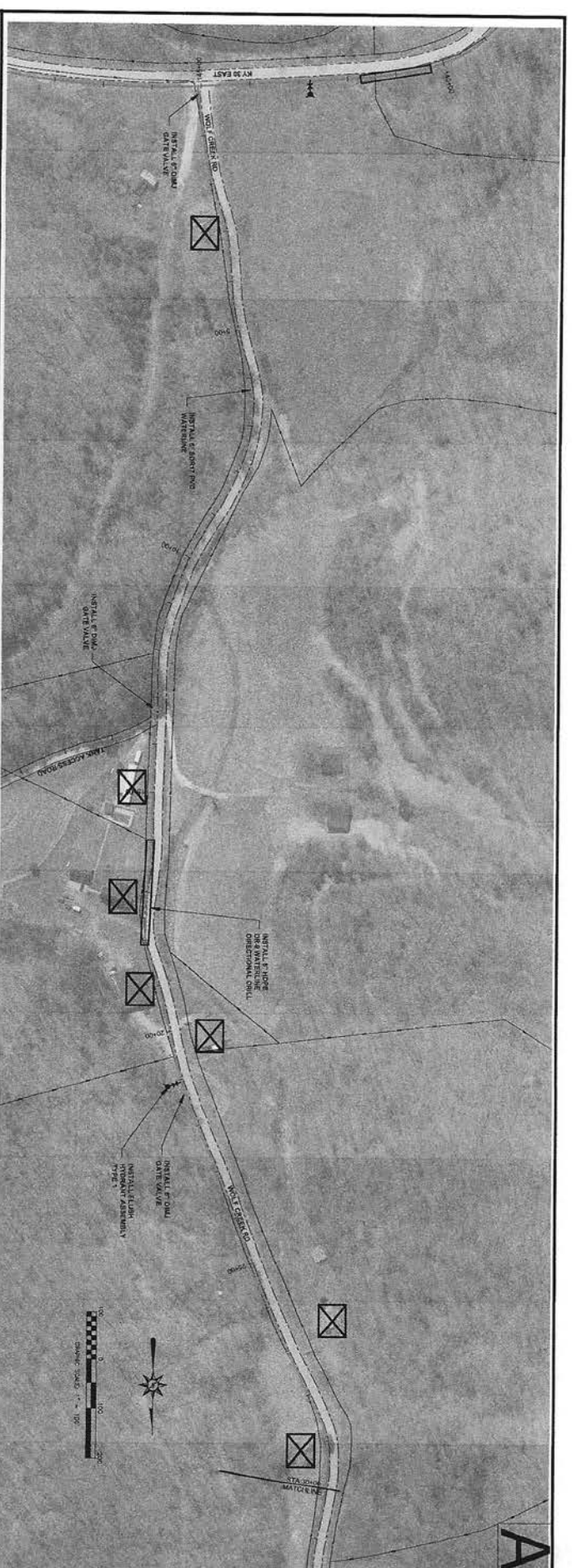
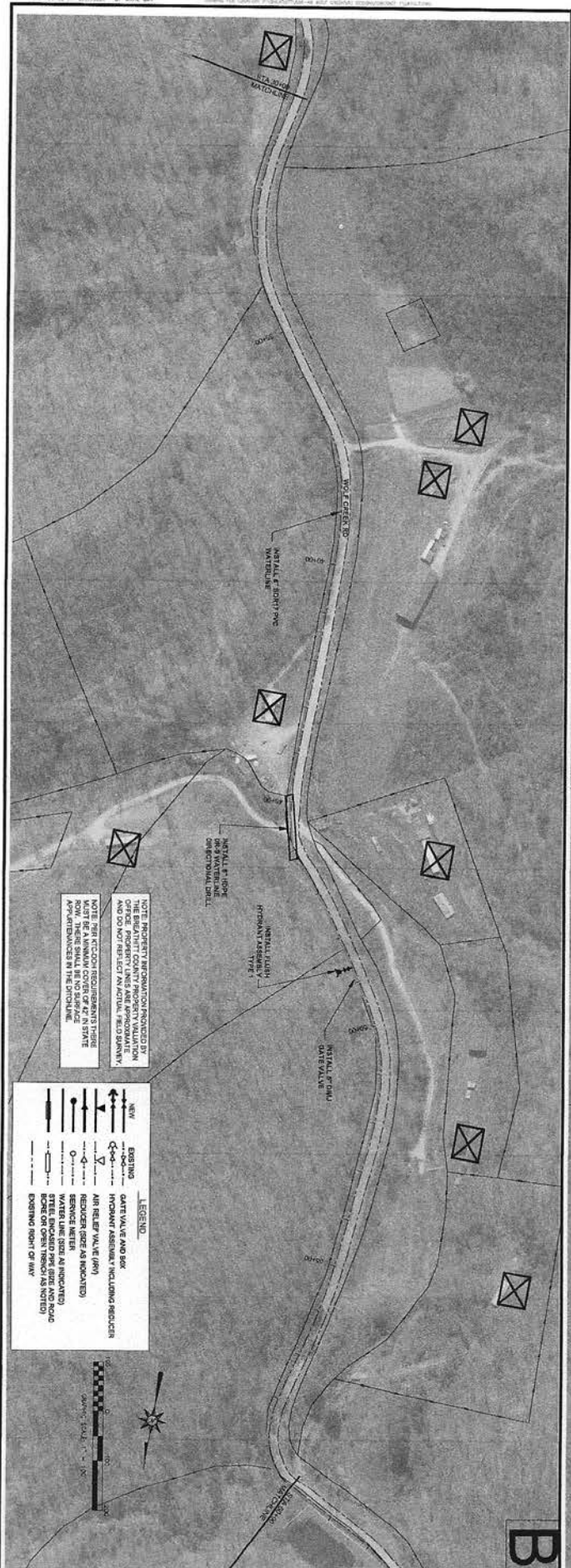
Sheet No: **MMS**      Job No: **968-48**      Date: **AS SHOWN**

NOVEMBER 17, 2022



**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY**

**KY 30 EAST STA 420+00 – STA 424+00**



NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION DEPARTMENT IS FOR INFORMATION ONLY AND DOES NOT REFLECT AN ACTUAL FIELD SURVEY. NOTE: PER AECOM REQUIREMENTS THESE ROWS SHALL BE NO SURFACE APPEARANCES IN THE DITCHLINE.

**LEGEND**

	<b>NEW</b>	<b>WATERLINE</b>
	<b>EXISTING</b>	<b>WATERLINE</b>
	<b>GATE VALVE AND BOX</b>	
	<b>HYDRANT ASSEMBLY</b>	INCLUDES REDUCER
	<b>AIR RELIEF VALVE (ARV)</b>	
	<b>REDUCER (SIZE AS INDICATED)</b>	
	<b>WATER LINE SIZE AS INDICATED</b>	
	<b>STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)</b>	
	<b>EXISTING RIGHT OF WAY</b>	



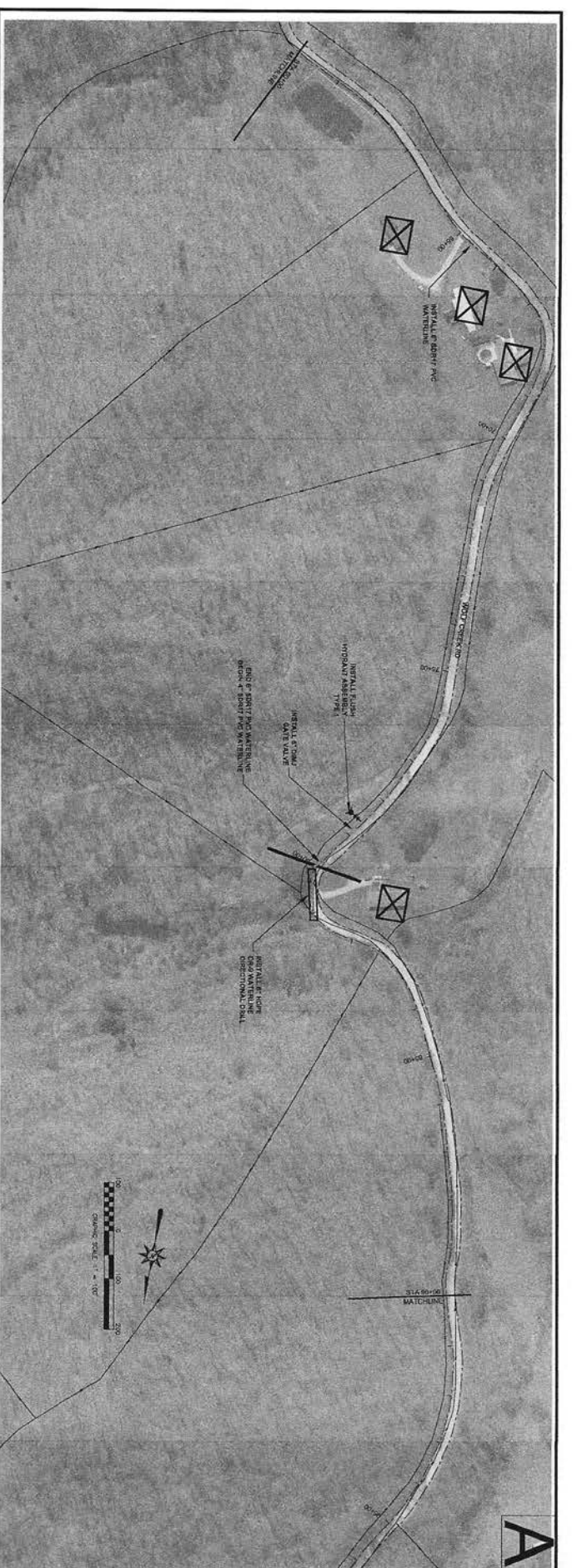
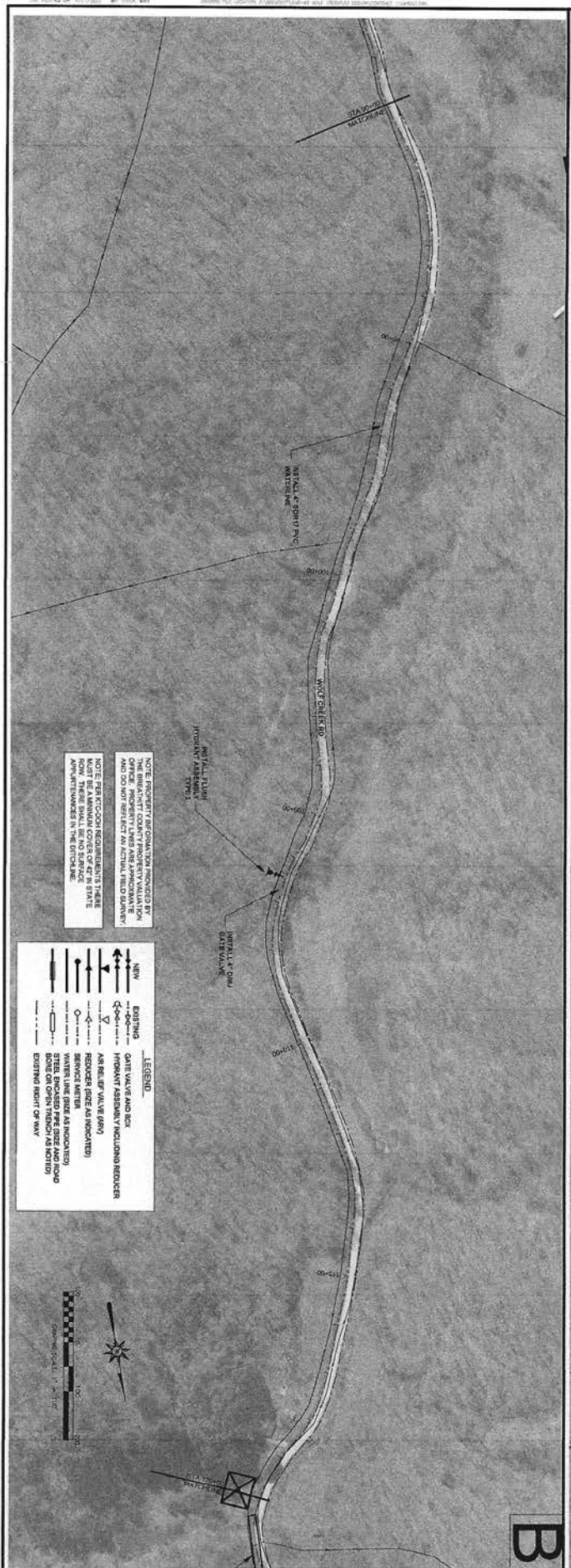
C-10



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 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT  
 DATE: NOVEMBER 17, 2022  
 SHEET NO: 996-46  
 AS SHOWN



**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY**  
 WOLF CREEK STA 0+00 - STA 60+00



NOTE: PROPERTY INFORMATION PROVIDED BY OWNER. PROPERTY LINES ARE APPROXIMATE AND DO NOT REPRESENT AN ACTUAL FIELD SURVEY.  
 NOTE: ELEVATION RECOMMENDATIONS ARE NOT TO BE A MINIMUM COVER OF 4' IN STATE APPROVEMENTS IN THE STRUCTURE.

LEGEND	
	NEW WATERLINE
	EXISTING WATERLINE
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY (INCLUDING REDUCER)
	REDUCER (SEE AS INDICATED)
	SERVICE WATER
	WATER LINE (SEE AS INDICATED)
	STREET (SEE AS INDICATED)
	EXISTING RIGHT OF WAY



C-11

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PROJECT: KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT

DATE: MMS 998-48 AS SHOWN  
 NOVEMBER 17, 2022

**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY**

WOLF CREEK STA 60+00 – STA 120+00



NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION OFFICE. PROPERTY LINES ARE APPROXIMATE AND NOT TO BE USED FOR EASEMENTS, EASEMENTS, OR EASEMENTS. THIS INFORMATION IS NOT TO BE USED FOR EASEMENTS, EASEMENTS, OR EASEMENTS. THIS INFORMATION IS NOT TO BE USED FOR EASEMENTS, EASEMENTS, OR EASEMENTS.

**LEGEND**

	NEW WATERLINE
	EXISTING WATERLINE
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	SERVICE METER
	WATERLINE SIZE AS INDICATED
	RIGHT OF WAY
	EXISTING RIGHT OF WAY



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 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY

Drawn by: MMS  
 Date: 9-9-22  
 Scale: AS SHOWN

NOVEMBER 17, 2022

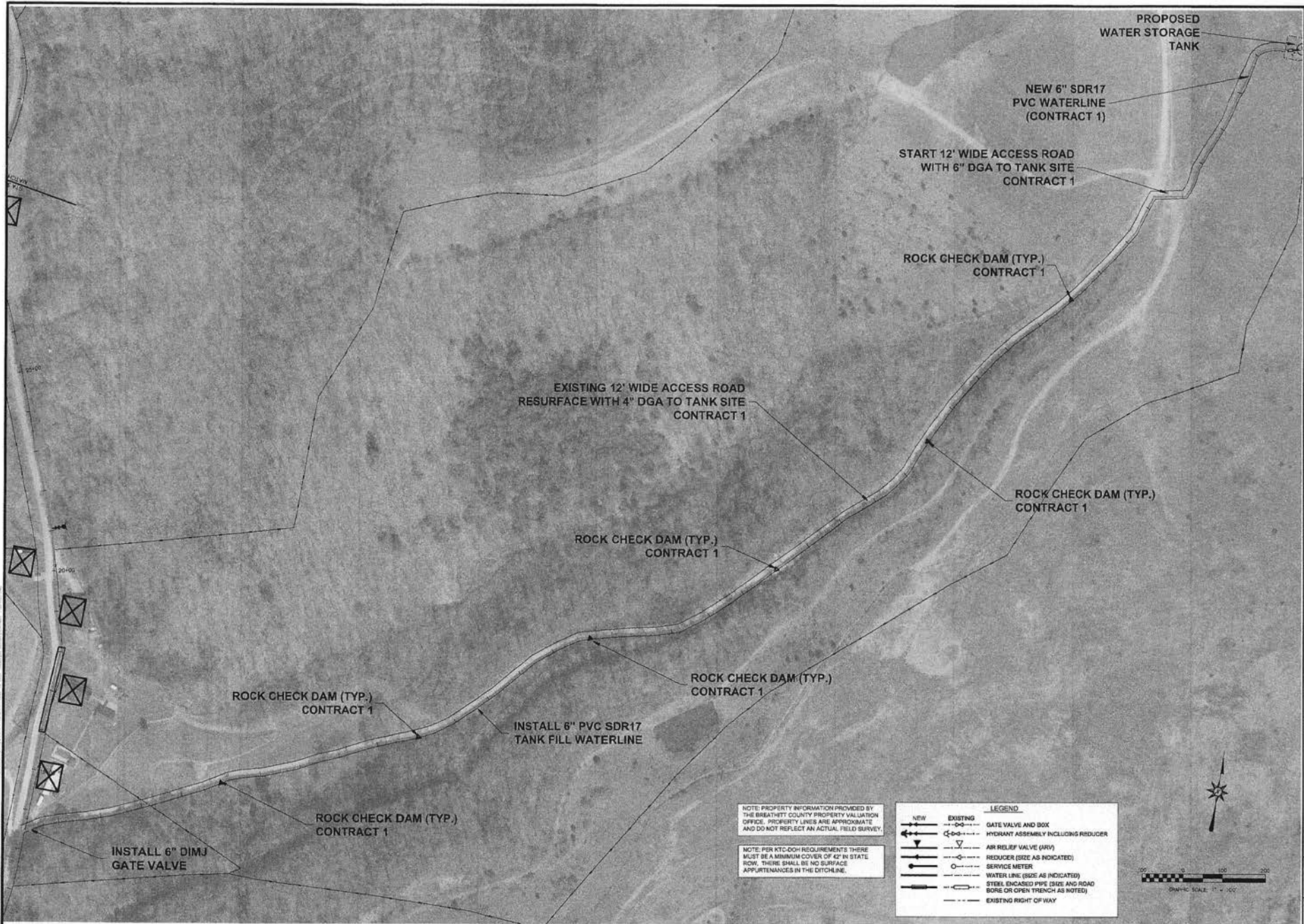


**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY**

WOLF CREEK STA 120+00 - STA 160+50

C-12

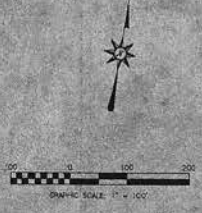




DATE: 11/17/2022  
 DRAWN BY: JAMES  
 CHECKED BY: JAMES  
 PROJECT NO: 2022-001

NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHTHITT COUNTY PROPERTY VALUATION OFFICE. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.  
 NOTE: PER KTC-DOH REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 42" IN STATE ROW. THERE SHALL BE NO SURFACE APPURTENANCES IN THE DITCHLINE.

LEGEND	
NEW	EXISTING



**nesbitt engineering, inc.**

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
BREATHTHITT COUNTY WATER DISTRICT

DATE: 11/17/2022  
DRAWN BY: JAMES  
CHECKED BY: JAMES

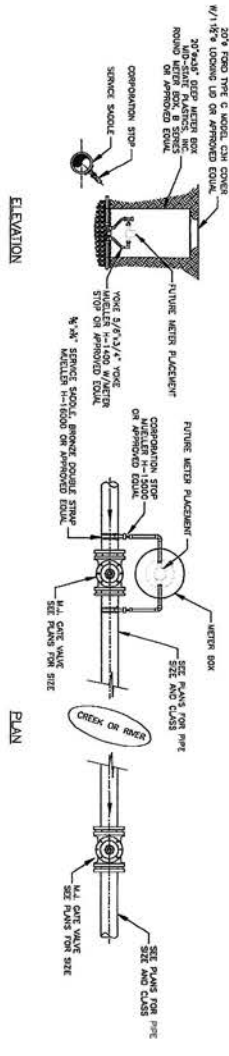
PROJECT NO: 2022-001

NOVEMBER 17, 2022

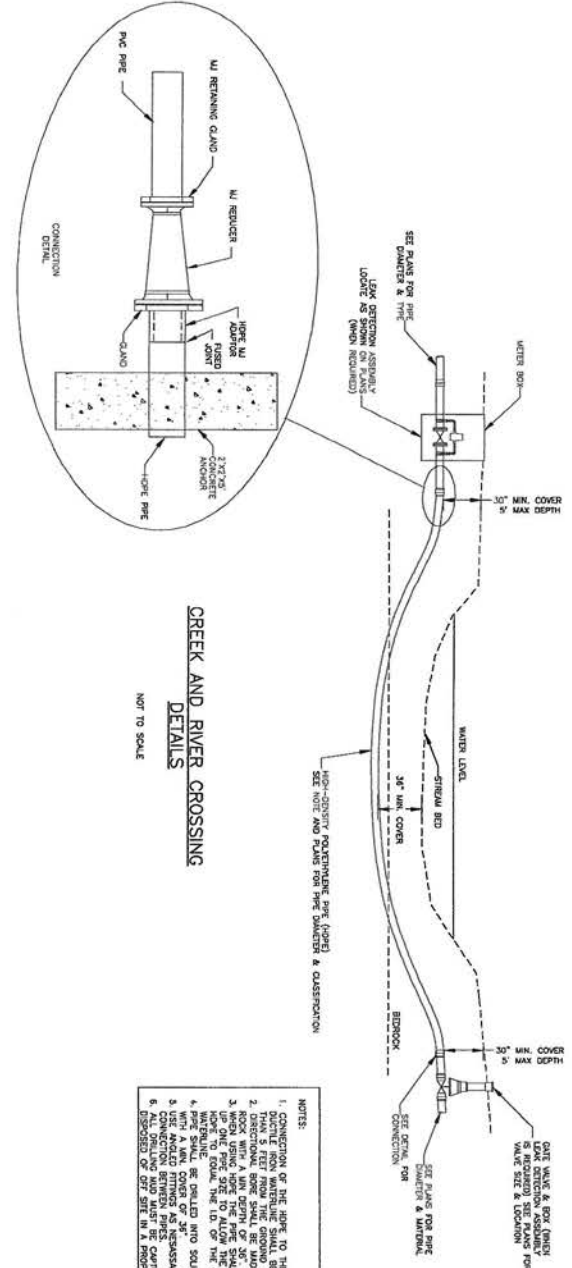
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
CONTRACT 1 WATERLINES  
BREATHTHITT COUNTY WATER DISTRICT  
BREATHTHITT COUNTY, KY

TANK LINE

C-13



**LEAK DETECTION ASSEMBLY**  
NOT TO SCALE



**CREEK AND RIVER CROSSING**  
**DETAILS**  
NOT TO SCALE

- NOTES:**
1. CONNECTION OF PIPE HANG TO THE P.C. OR H.A. SHALL BE MADE IN THE MANNER SHOWN.
  2. HANG 5 FEET FROM THE GROUND ELEVATION.
  3. ROCK WITH A MIN. DEPTH OF 3\"/>



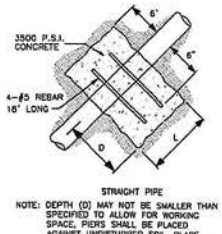
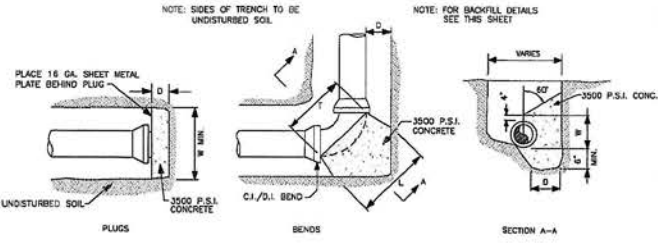
nesbitt engineering, inc.  
1115 S. MAIN STREET  
JACKSON, KY 41302

PROJECT NO.	998.48	DATE	AS SHOWN
CLIENT	BREATHITT COUNTY WATER DISTRICT	DATE	6/1/2022



1000000  
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
BREATHITT COUNTY WATER DISTRICT  
1137 Main Street  
Jackson, KY 41339

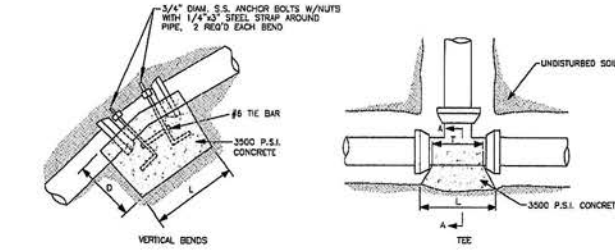
DIRECTIONAL DRILLING DETAILS



NOTE: DEPTH (D) MAY NOT BE SMALLER THAN SPECIFIED TO ALLOW FOR WORKING SPACE. PIPES SHALL BE PLACED AGAINST UNDISTURBED SOIL. PLACE CONCRETE ANCHORS 25'-0\"/>

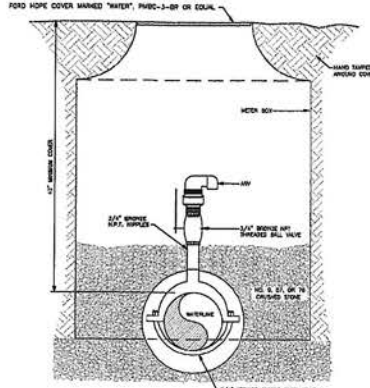
PIPE SIZE	DIMENSIONS FOR THRUST AND ANCHOR BLOCKS																							
	3"	4"	6"	8"	10"	12"	14"	18"	24"	PLUGS					QUARTER BEND (90°)				VERTICAL BEND & STRAIGHT PIPE					
D	6"	8"	8"	8"	10"	10"	10"	12"	12"	14"	18"	18"	20"	22"	24"	26"	28"	30"	30"	30"	30"	30"	30"	30"
L/W	18"	18"	18"	20"	22"	24"	26"	28"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
D	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
L	14"	16"	18"	20"	22"	24"	26"	28"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
T	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
W	6"	6"	8"	12"	14"	18"	18"	20"	22"	24"	26"	28"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
D	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
L	18"	21"	24"	27"	30"	33"	36"	36"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"
T	13"	14"	16"	18"	20"	22"	24"	26"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"	30"
W	6"	6"	8"	12"	14"	18"	20"	22"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"	26"

NOTE: SEE PLAN SHEETS FOR SIZE AND LOCATION OF PIPE.



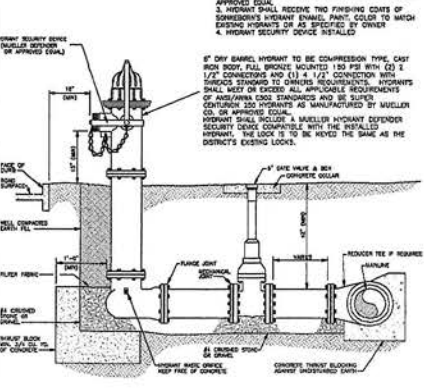
CONCRETE ANCHOR BLOCKS

ARV 3/4" A.R.J. FLOW CONTROL MODEL D-94Q COMBINATION AIR VALVE "BARAK" OR APPROVED EQUAL



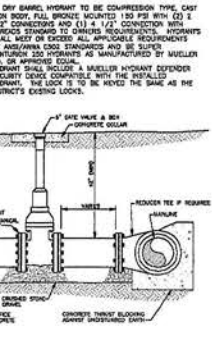
TYPICAL AIR RELIEF VALVE ASSEMBLY

TYPE 1 TWO 2" 88'S AND ONE 4" 88 TYPE 2 TWO 2" 88'S



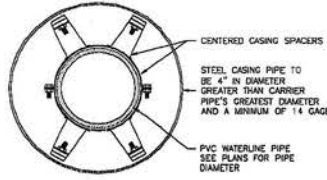
FLUSHING HYDRANT ASSEMBLY, TYPE 1 & 2

NOTE: BEFORE FINAL INSPECTION 1. ENSURE ACCURATE VOLUME OF OIL AS SHIPPED BY THE MANUFACTURER 2. HYDRANT SHALL BE CLEANED, WIRE BRUSHED AND TIGHTENED UP WITH TORQUE PRIMER EXACT OR ENGINEER APPROVED EQUAL 3. HYDRANT SHALL RECEIVE THE FINISHING COAT OF SOMERSON'S INVENTOR ENAMEL PAINT, COLOR TO MATCH EXISTING HYDRANTS OR AS SPECIFIED BY OWNER 4. HYDRANT SECURITY DEVICE INSTALLED



TYPICAL GATE VALVE ASSEMBLY

NOTE: RAILROAD BORE CASING PIPE SHALL BE A 16" DIAMETER, API 5L GRADE B STEEL PIPE WITH A MINIMUM WALL THICKNESS OF 0.25" AS SHOWN ON THE PLANS.



NOTE: CARRIER PIPE SHALL BE INSTALLED WITHIN CASING PIPE USING MODEL G POLYETHYLENE CASING SPACERS AS MANUFACTURED BY ADVANCE PRODUCT & SYSTEMS, INC. OR ENGINEER APPROVED EQUAL. SIZE AND SPACING PER MANUFACTURER'S RECOMMENDATIONS.

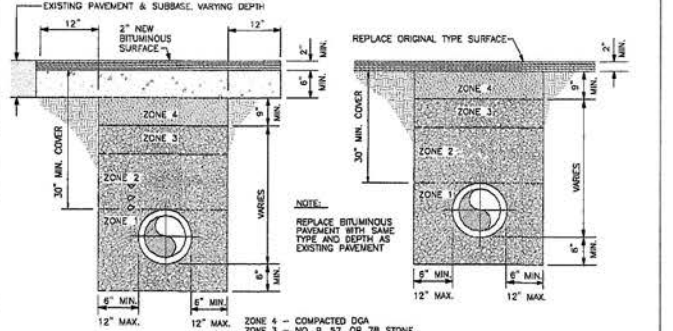
END SEALS SHALL BE MODEL AC PULL-ON OR AIR WRAP AROUND END SEALS AS MANUFACTURED BY ADVANCE PRODUCT & SYSTEMS, INC. OR ENGINEER APPROVED EQUAL.

CASING SPACER DETAIL



MJ Retainer Gland Joint Restraint

NOTE: 1. MJ RETAINER GLAND JOINT RESTRAINTS SHALL BE USED ALONG WITH CONCRETE ANCHOR BLOCKS AT ALL FITTINGS AS REQUIRED



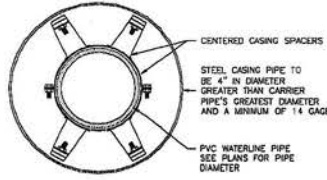
ORIGINAL BITUMINOUS SURFACING OVER 2"

ORIGINAL BITUMINOUS SURFACING 2" OR LESS AND TRAFFIC BOUND MACADAM

ZONE 4 - COMPACTED DGA NO. 9, 97, OR 78 STONE  
ZONE 3 - 12" MIN. NO. 9 STONE  
ZONE 1 - NO. 9 STONE

REPLACE ORIGINAL TYPE SURFACE  
REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND DEPTH AS EXISTING PAVEMENT

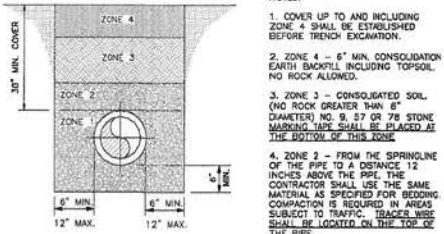
NOTE: RAILROAD BORE CASING PIPE SHALL BE A 16" DIAMETER, API 5L GRADE B STEEL PIPE WITH A MINIMUM WALL THICKNESS OF 0.25" AS SHOWN ON THE PLANS.



NOTE: CARRIER PIPE SHALL BE INSTALLED WITHIN CASING PIPE USING MODEL G POLYETHYLENE CASING SPACERS AS MANUFACTURED BY ADVANCE PRODUCT & SYSTEMS, INC. OR ENGINEER APPROVED EQUAL. SIZE AND SPACING PER MANUFACTURER'S RECOMMENDATIONS.

END SEALS SHALL BE MODEL AC PULL-ON OR AIR WRAP AROUND END SEALS AS MANUFACTURED BY ADVANCE PRODUCT & SYSTEMS, INC. OR ENGINEER APPROVED EQUAL.

CASING SPACER DETAIL



PIPE LAID IN ROCK OR EARTH TRENCH

- NOTES:
- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
  - ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
  - ZONE 3 - CONSOLIDATED SOIL (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 87 OR 78 MARKING TAPE SHALL BE PLACED AT THE BOTTOM OF THIS ZONE.
  - ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC. TRACES WISE SHALL BE LOCATED ON THE TOP OF THE PIPE.
  - 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.

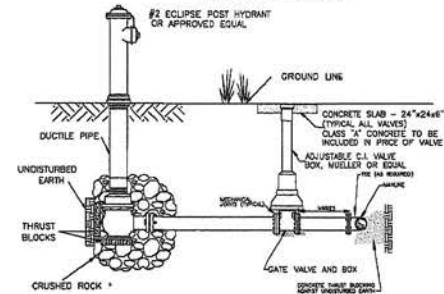
Hydrants shall be self-draining, non-freezing, compression type with 2-3/16" main valve opening. Outlet shall be 2-1/2"

Hydrants shall have a ductile iron pipe riser with a cast iron stack top, and non-turning operating rod. Principal interior operating parts shall be brass and removable from the hydrant for servicing without excavating the hydrant.

Hydrants shall be set in 4 cubic feet of crushed stone to allow for proper drainage of the hydrant. Recommendations of the AWWA should be followed when installing the hydrants.

Post hydrants shall be Eclipse No. 2 Post Hydrants as manufactured by John C. Kufner Foundry Company, St. Louis, MO. OR APPROVED EQUAL.

HYDRANT SHALL INCLUDE A SECURITY LOCKING DEVICE COMPATIBLE WITH THE INSTALLED HYDRANT. THE LOCK IS TO BE KEPT THE SAME AS THE DISTRICT'S EXISTING LOCKS.

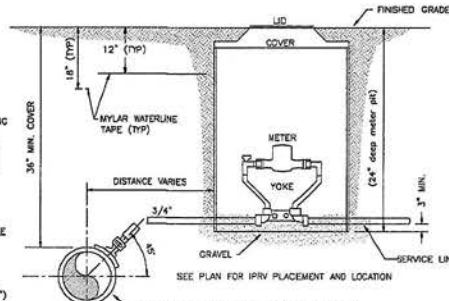


FLUSHING HYDRANT ASSEMBLY, TYPE 3

METER SETTING

- YOKE-3/8"x3/4" MUELLER N=1400 WITH METER STOP OR APPROVED EQUAL
- METER BOX-16"x24" DEEP, MID-STATE PLASTICS, INC. ROLINE METER BOX, B SERIES OR APPROVED EQUAL
- COVER-16"x16" FIBER REINFORCED PLASTIC OR APPROVED EQUAL
- METER-SEE SPECIFICATIONS
- INDIVIDUAL PRESSURE REDUCING VALVE (IPRV) WATTS MODEL 25AUB(2), WILKINS MODEL 600 (4 1/2" - 1") BOTH W/S.S. STRAINER, ADJUSTABLE PRESSURE RANGE 25-75 P.S.I., OUTLET PRESSURE SET AT 50 P.S.I. OR APPROVED EQUAL
- NO PREFER SETTER TUB ASSEMBLIES WILL BE ALLOWED.
- CONNECT SERVICE LINES DIRECTLY TO SETTER. DO NOT USE NIPPLES OR THE SETTER.

TO WATER MAIN  
GROUND KEY CORPORATION STOP-MUELLER H=10000 (8 1/2" x 4") OR APPROVED EQUAL  
SERVICE SADDLE-BRONZE DOUBLE STRAP-MUELLER H=16000 OR APPROVED EQUAL



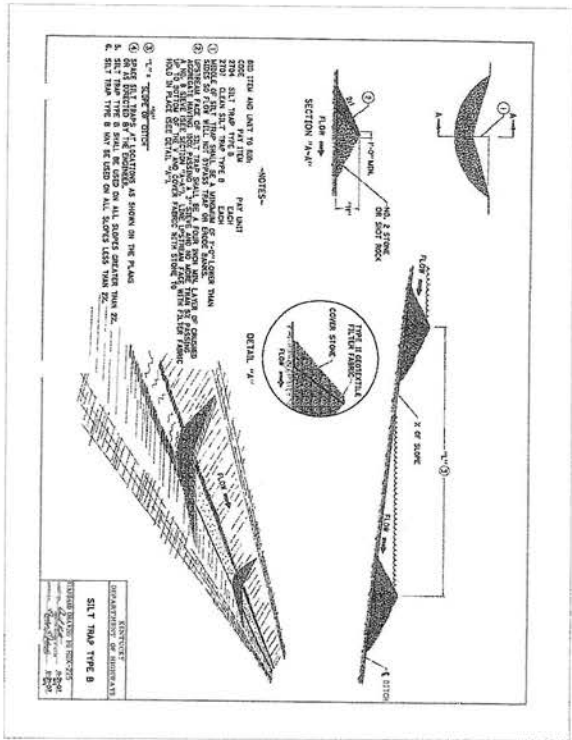
TYPICAL WATER METER ASSEMBLY

HY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
BREATHITT COUNTY WATER DISTRICT  
1137 Main Street  
Jackson, KY 41339



nesbitt engineering, inc.  
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
BREATHITT COUNTY WATER DISTRICT





- NOTES:
1. SEE PLAN AND LAYOUT FOR SLOPE.
  2. COARSE SILT TRAP TYPE B SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN.
  3. SEE PLAN TYPE B FOR SLOPE ON ALL SIDES EXCEPT UPSTREAM SIDE.
  4. SEE PLAN TYPE B FOR SLOPE ON ALL SIDES EXCEPT UPSTREAM SIDE.

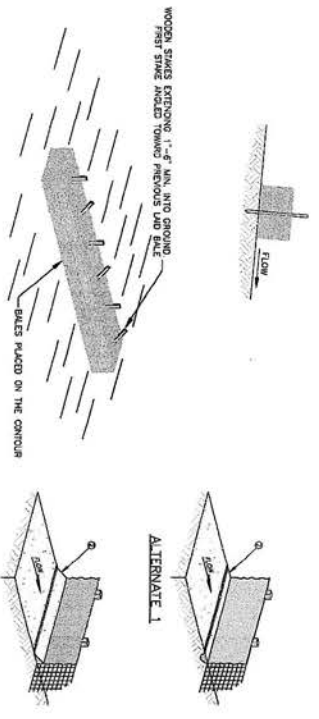
DATE	DESCRIPTION
08/11/2022	DESIGN
08/11/2022	CHECKED
08/11/2022	APPROVED

**STRAW BALE SILT CHECK  
SEDIMENTATION CONTROL**  
NOT TO SCALE

- NOTE:
1. STRAW BALES SHALL BE PLACED UPSTREAM OF THE SEDIMENTATION CONTROL UNTIL REDEMPTION IS COMPLETED.

**SILT CHECK FENCE  
SEDIMENTATION CONTROL**  
NOT TO SCALE

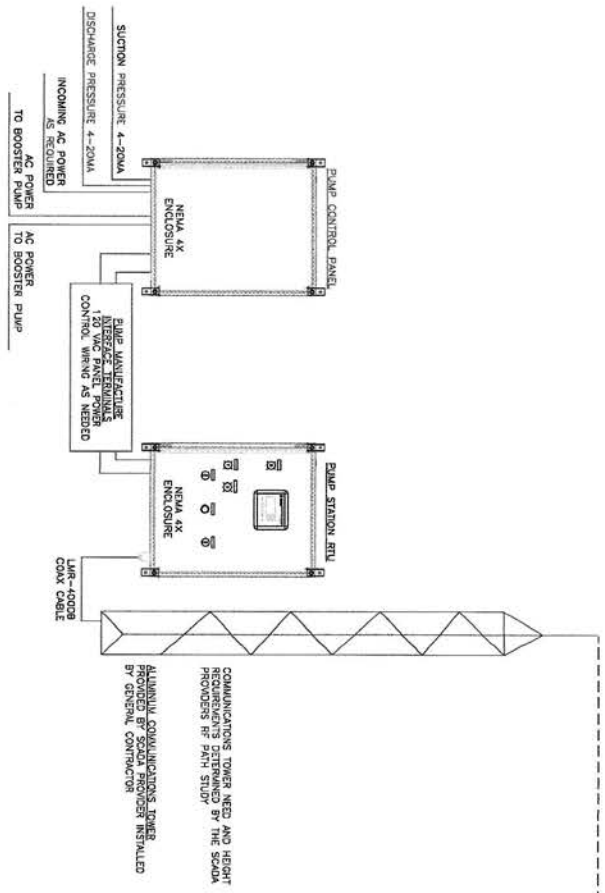
- NOTE:
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
  2. THE BOTTOM 1/2 INCHES OF FABRIC SHALL BE SHIELDED BY A 6 INCHES OF 1/2 INCH DIA. RIGID PIPE OR CONCRETE PIPE.
  3. ALL DOWNHOLE SHALL BE ON THE UPSTREAM SIDE OF FENCE.



nesbitt engineering, inc.  
 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT  
 mms 998-48 NOT TO SCALE  
 8/1/2022



KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT  
 1137 Main Street  
 Jackson, KY 41339  
 EROSION CONTROL & MISC. DETAILS



SYSTEM DATA REQUIRED TO BE EXPANDABLE FOR FUTURE DISPLAY AT WATER DISTRICT OFFICE

ALL SCADA HARDWARE, PROGRAMMING TECHNIQUES AND METHODS TO BE 100% COMPATIBLE WITH EXISTING SCADA SYSTEM

**nesbitt engineering, inc.**  
providing better solutions since 1892

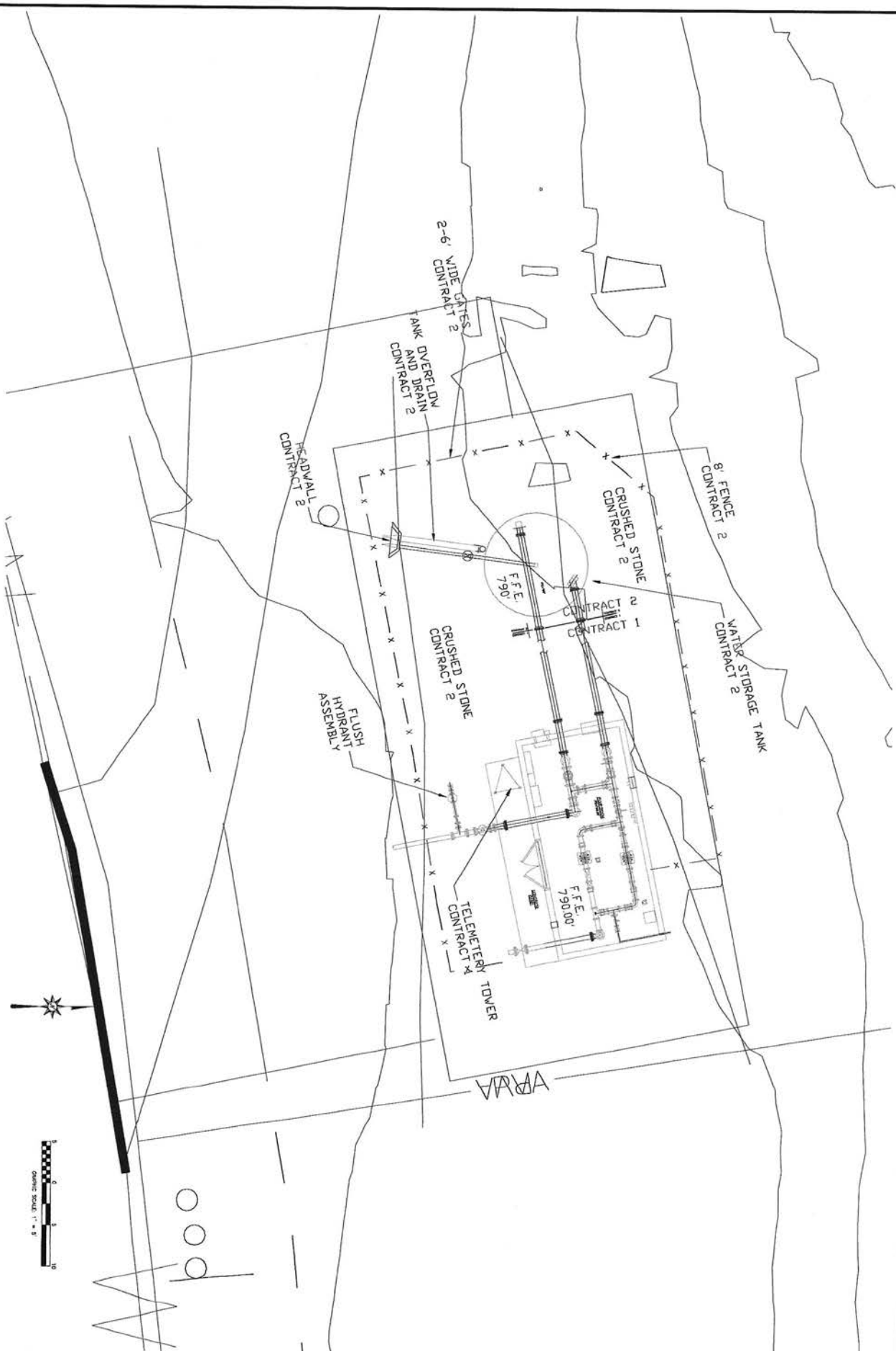
BY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT

DATE: 2/1/2023  
 DRAWN BY: MMS  
 PROJECT NO: 998.48  
 SCALE: NOT TO SCALE



BY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 - WATERLINE  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KENTUCKY

SCADA DIAGRAM



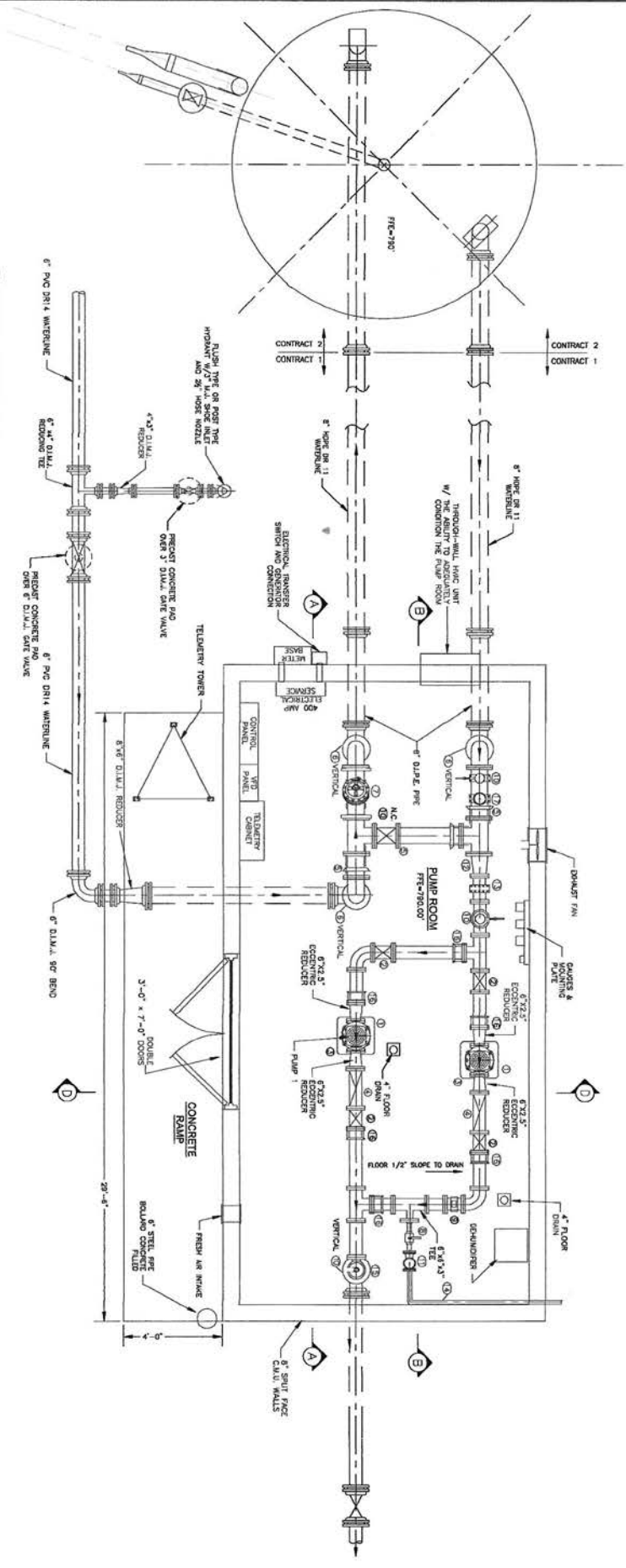
NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION AND SURVEY DEPARTMENT. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSES.



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 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT  
 MWS 998-48 NTS  
 NOVEMBER 17, 2022



**KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 WATERLINES  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KY**  
 PUMP STATION SITE



- 1. PUMPS 1, 2 & 3 ARE GUNBOSS, MODEL OR 120-1-2, MULTI-STAGE CENTRIFUGAL PUMPS. EACH PUMP IS 3000 RPM, 75000 GPM, 200 HP, 208V, 3PH, 4W, 60HZ, 1.0 EFFICIENCY MOTOR. PUMP FLANGES ARE 2.5\"/>
- 2. PUMPS SHALL BE SUPPLIED BY STABEITER PUMP & SUPPLY, INC. OR APPROVED EQUAL.
- 3. CONCRETE PUMP AND
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PUMP STATION LAYOUT

SCALE 1/2" = 1'-0"

ALL VALVES SHALL BE CONSTRUCTION GRADE  
 1. VALVE WITH IN CONTROL  
 2. VALVE WITH IN CONTROL  
 3. VALVE WITH IN CONTROL  
 4. VALVE WITH IN CONTROL

- NOTE
1. INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL ELECTRICAL CODES AND THE MANUFACTURER'S INSTRUCTIONS. ALL WIRING SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL ELECTRICAL CODES AND THE MANUFACTURER'S INSTRUCTIONS.
  2. THE 600 AMP MAINBOND SHALL INCLUDE ALL CABLES AND CONDUITS FROM THE GENERATOR TO THE CONTROL PANEL AND SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL ELECTRICAL CODES AND THE MANUFACTURER'S INSTRUCTIONS.
  3. THE 600 AMP MAINBOND SHALL INCLUDE ALL CABLES AND CONDUITS FROM THE GENERATOR TO THE CONTROL PANEL AND SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL ELECTRICAL CODES AND THE MANUFACTURER'S INSTRUCTIONS.
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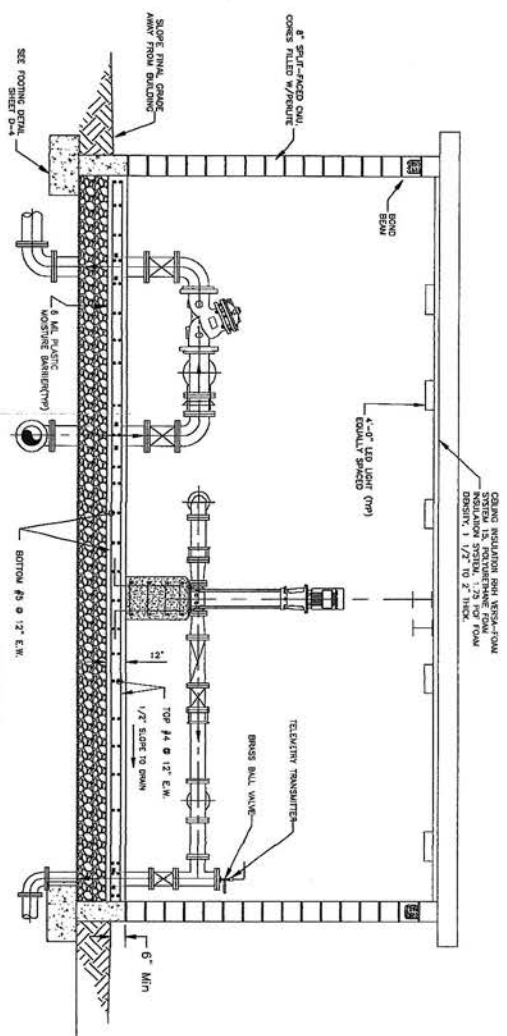
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT

DATE: 2/1/2023  
 DRAWING NO: 998.48  
 SHEET: AS-SHOWN

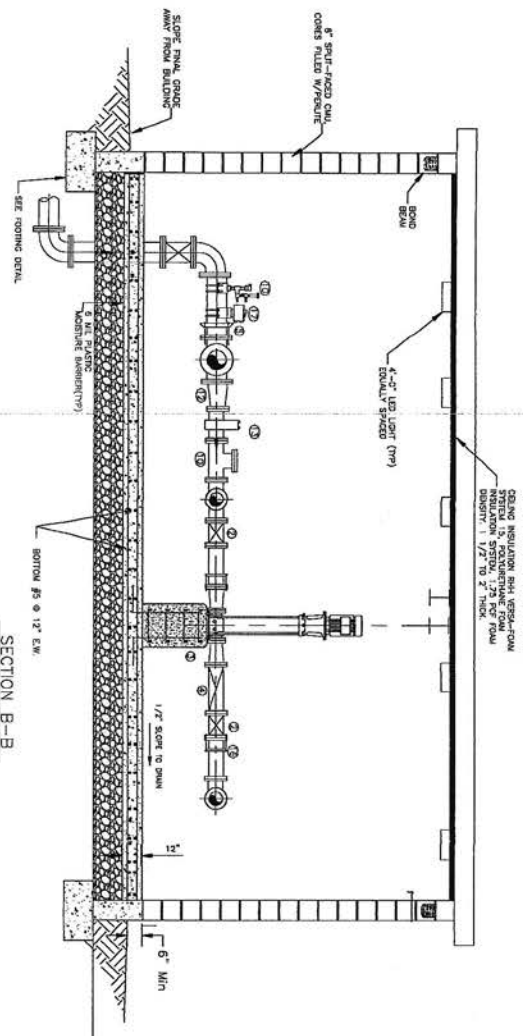


KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 - WATERLINE  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KENTUCKY

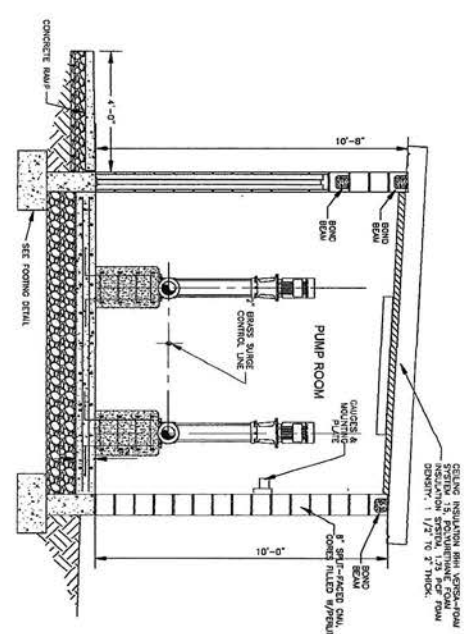
PUMP STATION PLAN VIEW



SECTION A-A  
SCALE: 1/2" = 1'-0"



SECTION B-B  
SCALE: 1/2" = 1'-0"



SECTION D-D  
SCALE: 1/2" = 1'-0"

- 1. ALL VALVES SHALL BE CONSTRUCTED USING
- 2. STAINLESS STEEL SEAT AND BALLS
- 3. WAVE STEEL IN DOORWAY
- 4. CORROSION PROTECTANT FOR COVER ASSEMBLY.

nesbitt engineering, inc.

1000 W. MAIN ST. SUITE 200  
LEXINGTON, KY 40502  
TEL: 606-253-8800  
WWW.NESBITTENGINEERING.COM

PROJECT: KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
BREATHITT COUNTY WATER DISTRICT

DATE: 3/30/2023

NO. 098-48

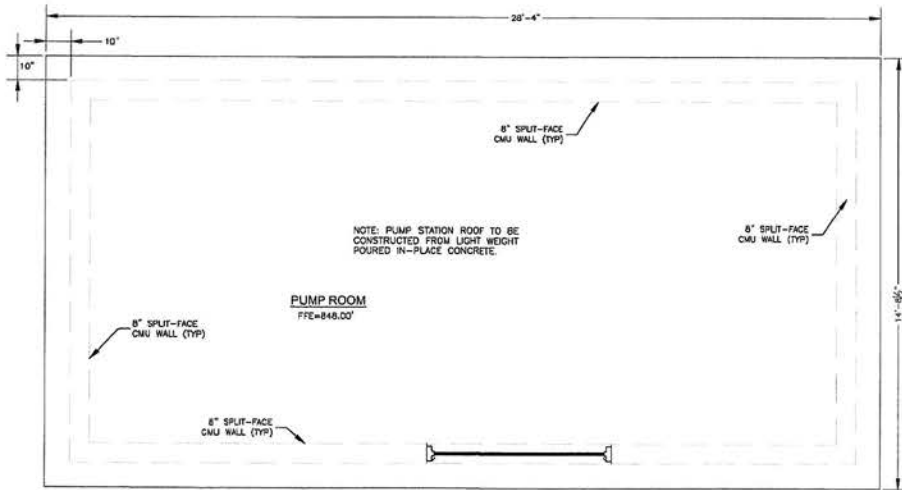
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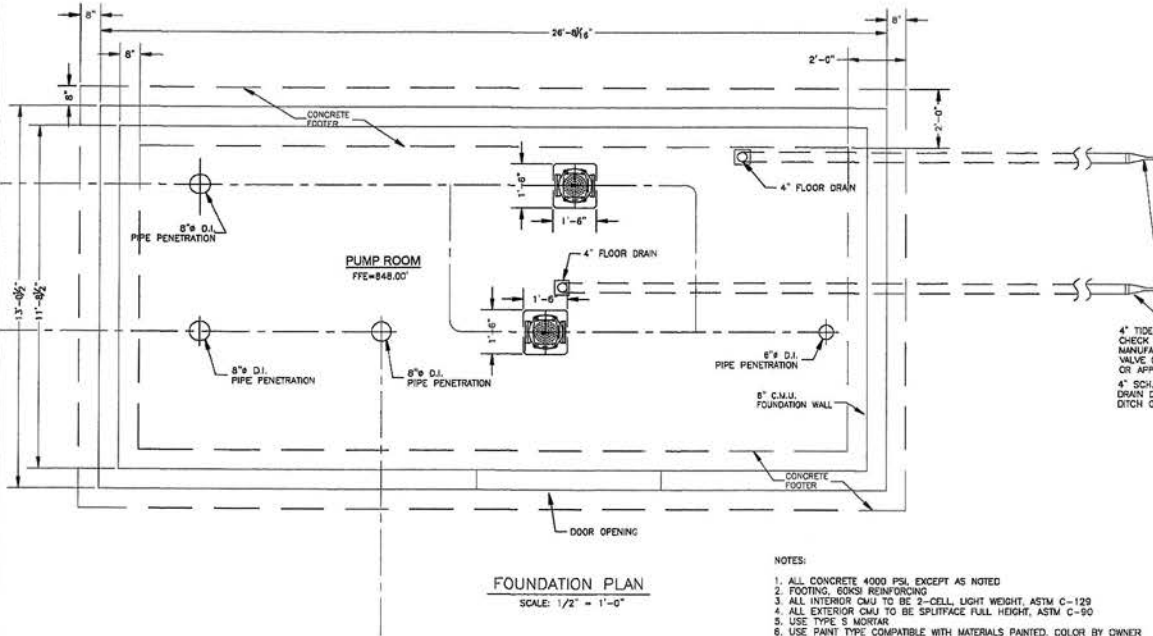
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
CONTRACT 1 - WATERLINE  
BREATHITT COUNTY WATER DISTRICT  
BREATHITT COUNTY, KENTUCKY

PUMP STATION - ELEVATIONS



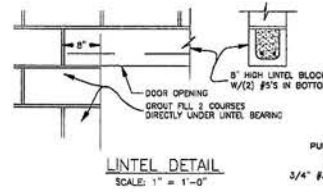


ROOF PLAN  
SCALE: 1/2" = 1'-0"

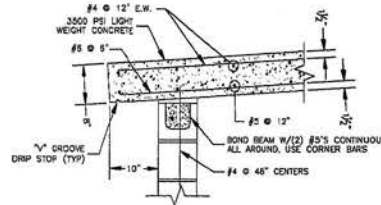


FOUNDATION PLAN  
SCALE: 1/2" = 1'-0"

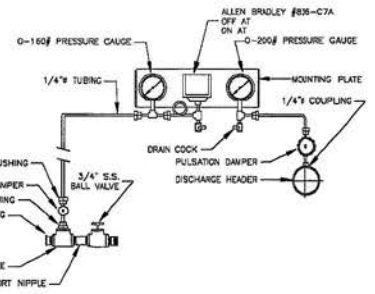
- NOTES:
1. ALL CONCRETE 4000 PSI EXCEPT AS NOTED
  2. FOOTING, 60KSI REINFORCING
  3. ALL INTERIOR CMU TO BE 2-CELL, LIGHT WEIGHT, ASTM C-129
  4. ALL EXTERIOR CMU TO BE SPLITFACE FULL HEIGHT, ASTM C-90
  5. USE TYPE S MORTAR
  6. USE PAINT TYPE COMPATIBLE WITH MATERIALS PAINTED, COLOR BY OWNER
  7. EXTERIOR ROOF & WALLS TO BE SEALED WITH 2 COATS CLEAR THOMPSON WATER SEAL OR EQUAL.



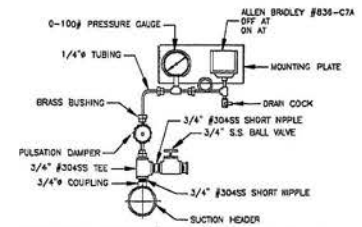
LINTEL DETAIL  
SCALE: 1" = 1'-0"



ROOF DETAIL  
SCALE: 1" = 1'-0"

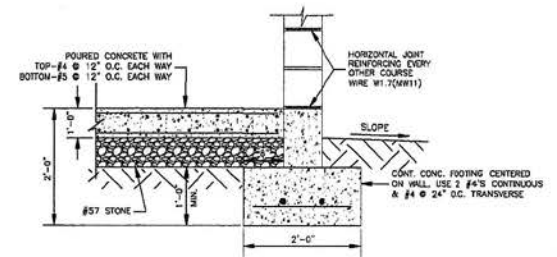


DISCHARGE GAUGE/SWITCH PANEL DETAIL  
NOT TO SCALE



SUCTION GAUGE/SWITCH PANEL DETAIL  
NOT TO SCALE

- NOTES:
1. PIPING TO BE SCH. 40 BLACK STEEL CONFORMING TO ANSA C-300
  2. ALL VALVE HANDLES TO BE ROTATED AS REQUIRED FOR BEST ACCESS



FOOTING DETAIL  
SCALE: 1" = 1'-0"

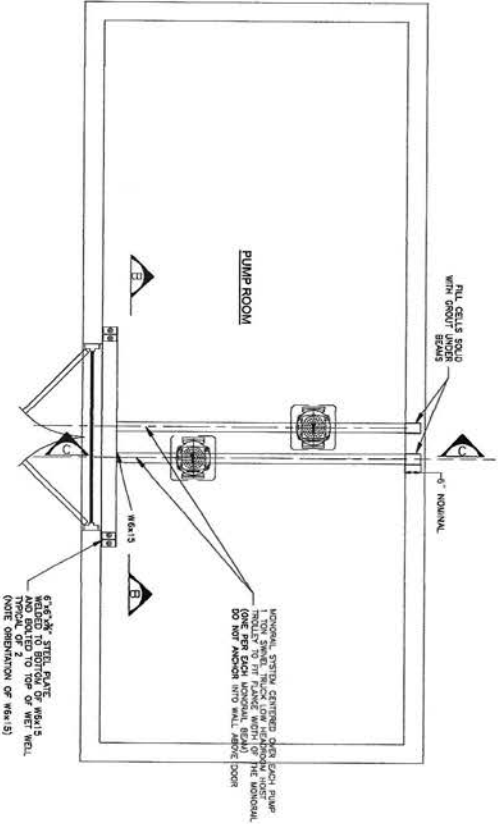
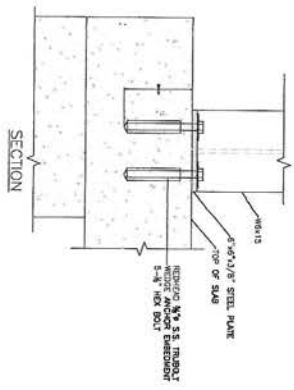
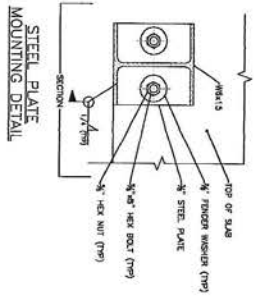
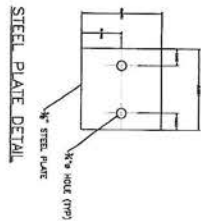
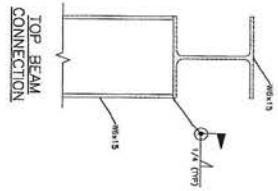
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
CONTRACT 1 - WATERLINE  
BREATHITT COUNTY WATER DISTRICT  
BREATHITT COUNTY, KENTUCKY  
PUMP STATION - FOUNDATION



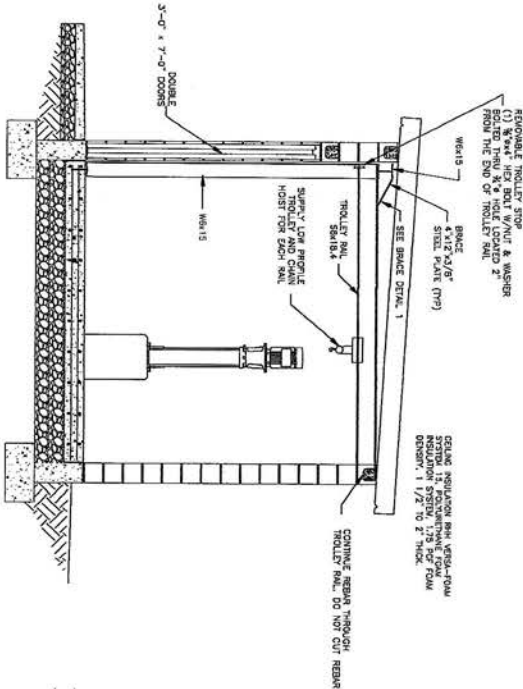
nesbitt engineering, inc.  
10000 Highway 100  
Louisville, KY 40241-1000  
908.46

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
BREATHITT COUNTY WATER DISTRICT  
MMS  
AS-SHOWN  
3/30/2023

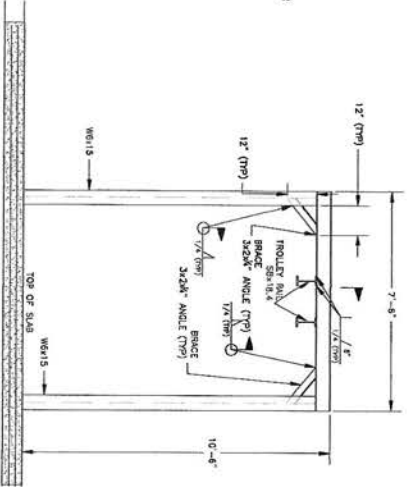




SUPPORT PLAN  
SCALE: 1/8" = 1'-0"



SECTION C-C  
SCALE: 1/8" = 1'-0"



SECTION B-B  
SCALE: 1/8" = 1'-0"



nesbitt engineering, inc.  
 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 BREATHITT COUNTY WATER DISTRICT  
 998.48  
 3/30/2023



KY 30 EAST & WOLF CREEK WATERLINE EXTENSION  
 CONTRACT 1 - WATERLINE  
 BREATHITT COUNTY WATER DISTRICT  
 BREATHITT COUNTY, KENTUCKY  
 PUMP STATION - HOIST SYSTEM