

WESTERN PULASKI COUNTY WATER DISTRICT

FISHING CREEK AREA

WATER SYSTEM IMPROVEMENTS

PULASKI COUNTY, KENTUCKY

LOCATION MAP

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WESTERN PULASKI COUNTY WATER DISTRICT

DON CALDER, CHAIRMAN

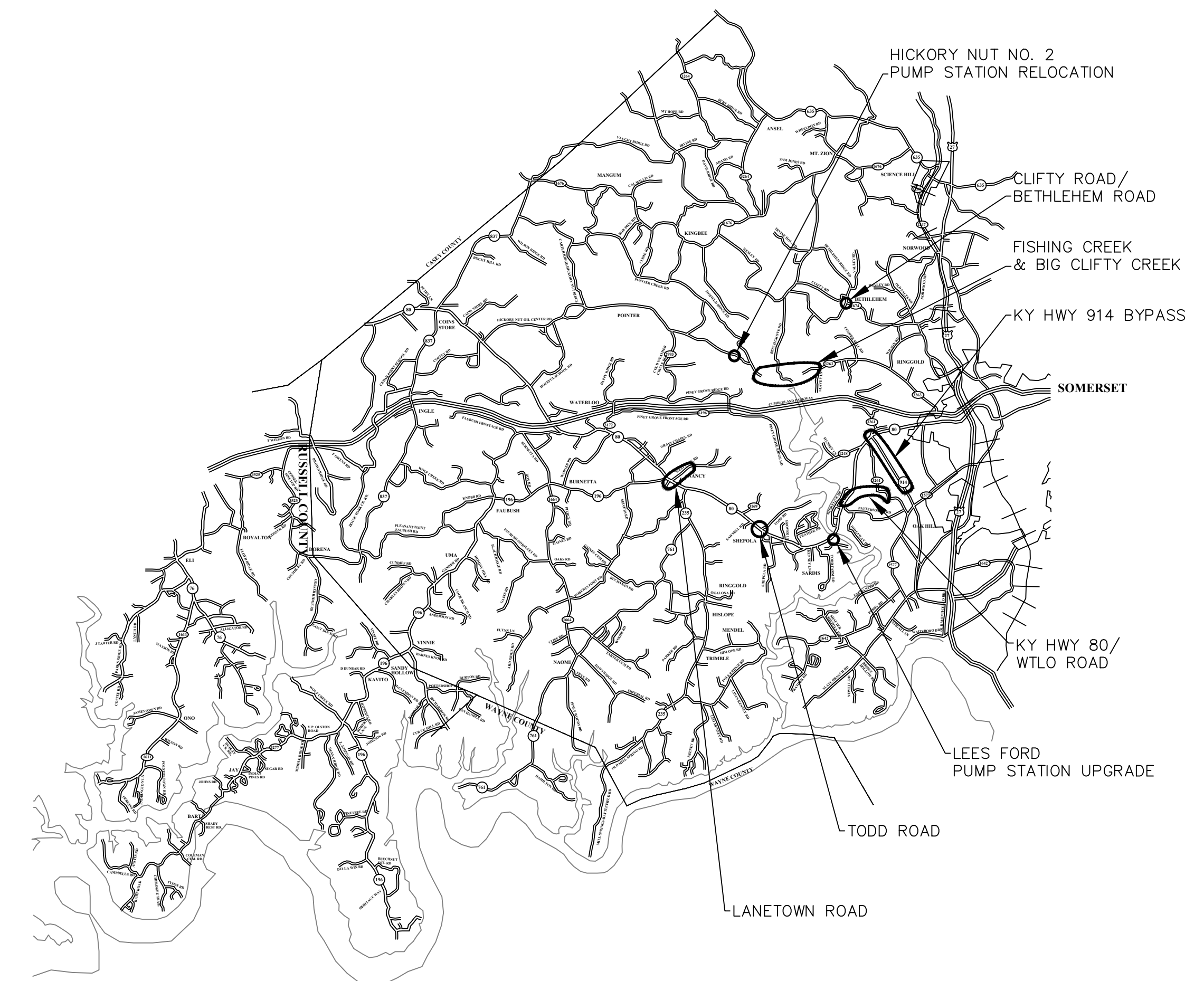
AMY POLSTON	JOEL WILSON
TEDDY ROBERTS	RANDALL WILSON

OFFICE MANAGER - TAMMY VAUGHT
 UTILITIES MANAGER - JOE McCLENDON

ATTORNEY - JOHN PRUITT

FEBRUARY 2022

THIS PROJECT FUNDED BY:
 USDA RURAL DEVELOPMENT



M
Monarch Engineering, Inc.

556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

GENERAL NOTES TO CONTRACTOR

- BEFORE CONSTRUCTION BEGINS NEAR OR THROUGH EXISTING UTILITIES (i.e. GAS CO., TELEPHONE CO., CABLE CO., ETC.) EACH UTILITY COMPANY SHALL BE NOTIFIED. A REQUEST FOR THE EXACT LOCATION OF THE UTILITY SHALL BE MADE, AND PERMISSION TO PROCEED WITH CONSTRUCTION OBTAINED.
- BEFORE CONSTRUCTION BEGINS THROUGH ANY PROPERTY, THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE EXACT LOCATION OF CONSTRUCTION THROUGH THE PROPERTY AND THE BOUNDS OF THE PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS.
- THE CONTRACTOR SHALL HAVE ON HAND AT THE JOB SITE 22, 45, AND 90 DEGREE BENDS TO ALLOW FOR THEIR USE WHERE WESTERN PULASKI COUNTY WATER DISTRICT REQUESTS INSTALLATION AS NECESSARY.
- PIPE JOINT DEFLECTION IS NOT TO EXCEED MANUFACTURER'S ALLOWABLE LIMITS.
- CONNECTING NEW LINES TO EXISTING LINES OR TO WORK IN THEIR CONTRACTS IS SUBSIDIARY TO THE CONTRACT. IT INCLUDES FITTINGS, SLEEVES, ETC., BUT DOES NOT INCLUDE GATE VALVES, WHICH ARE EXTRA PAY ITEM.
- THE CONTRACTOR SHALL FREE BORE ALL ASPHALT AND CONCRETE RESIDENTIAL DRIVEWAYS IN DIRT AND OPEN CUT IN ROCK AS DIRECTED BY THE WESTERN PULASKI COUNTY WATER DISTRICT AND ENGINEER. THE CONTRACTOR SHALL EXCAVATE FROM EITHER SIDE OF ALL FENCES TO AVOID CUTTING. FENCE CUTTING AND REPAIR SHALL BE LIMITED TO UNIQUE CONDITIONS WHERE APPROVED BY WESTERN PULASKI COUNTY WATER DISTRICT.
- ALL STREAM AND RIVER CROSSINGS GREATER THAN 15 FEET WIDE SHALL HAVE GATE VALVES INSTALLED ON EACH SIDE OF THE CROSSING. THE VALVE ON THE SOURCE SIDE SHALL HAVE A BYPASS SERVICE METER INSTALLED FOR LEAK DETECTION.
- ALL WATER LINES WITHIN 200 FEET RADIUS OF UNDERGROUND STORAGE TANKS (KRS-224.6-100), PETROLEUM STORAGE TANKS (KRS-224.60-115) AND ASSOCIATED PUMPS AND LINES SHALL BE DUCTILE IRON PIPE WITH PETROLEUM RESISTANT JOINTS AND ALL SERVICE LINE SHALL BE COPPER.
- WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS ABOVE OR BELOW THE SEWER AT CROSSINGS, ONE FULL LENGTH OF THE WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
- WATER MAINS INSTALLED PARALLEL TO SEWERS SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO MAINTAIN PERSONNEL RESIDENCY FOR ANY EMPLOYEE ON THE CONSTRUCTION SITE.
- WHEN WORKING ALONG THE COMMONWEALTH OF KENTUCKY RIGHT OF WAY, THE CONTRACTOR SHALL BE ADVISED THAT THE WATER LINES SHALL NOT BE PLACED IN FILL AREAS.
- WHEN PERFORMING WORK ALONG OR ACROSS ANY PUBLIC ROADWAY, THE CONTRACTOR SHALL POST WARNING SIGNS PAINTED ORANGE AND THEY SHALL BE FOUR (4) FEET BY FOUR (4) FEET MOUNTED ON POSTS IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE SIGNS SHALL BE AS FOLLOWS:
 - CAUTION PIPELINE CONSTRUCTION 1500 FEET
 - CAUTION PIPELINE CONSTRUCTION 1000 FEET
 - CAUTION PIPELINE CONSTRUCTION 500 FEET
- THE CONTRACTOR SHALL MAINTAIN TWO (2) FLAG MEN AT ALL TIMES WHERE MACHINERY IS IN OPERATION WHEN WORKING THE FLOW OF TRAFFIC WILL BE DISTURBED. THERE IS NO EXCEPTION TO THIS REQUIREMENT. THE USE OF RADIOS WILL BE REQUIRED WHEN VISUAL CONTACT BETWEEN THE FLAG MEN DOES NOT EXIST.
- ALL SIGNS, BARRICADES, LIGHTS AND TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- AT THE COMPLETION OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL ALL OPEN TRENCHES AND INSTALL ALL TRAFFIC CONTROL SIGNS, BARRICADES AND LIGHTS IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ENTIRE ROADWAY FREE AND CLEAR AT THE END OF EACH WORKING DAY. NO EQUIPMENT SHALL BE LEFT ON OR PARKED ALONG THE ROAD RIGHT OF WAY.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT OF WAY, ADJOINING PROPERTY AND WATER WAYS.

WATER LINE GENERAL NOTES

- ALL WATER LINES SHALL BE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM SPECIFICATIONS D-1784 FOR MATERIAL AND SHALL BE CLASS 250 (SDR 17) OR CLASS 200 (SDR 21) AS SHOWN ON THE DRAWINGS. ALL JOINTS SHALL BE SLIP-TYPE WITH RUBBER GASKETS CONFORMING TO ASTM-1869.
- FITTINGS SHALL BE DUCTILE IRON CLASS 250 IN ACCORDANCE WITH AWWA C111-71 (ANSI A21.10).
- ALL VALVES SHALL CONFORM TO AWWA C500.
- CONSTRUCTION PRACTICES AND PROCEDURES SHALL CONFORM TO CURRENT AWWA STANDARDS AND BE APPROVED BY THE WESTERN PULASKI COUNTY WATER DISTRICT.
- AFTER INSTALLATION, WATER LINES SHALL BE DISINFECTED WITH A CHLORINE SOLUTION IN SUCH AMOUNTS AS TO PRODUCE A CONCENTRATION OF AT LEAST FIFTY (50) PPM AND A RESIDUAL OF AT LEAST TWENTY-FIVE (25) PPM AT THE END OF THE 24 HOURS AND FOLLOWED BY THROUGH FLUSHING.
- MINIMUM COVER OF WATER LINES SHALL BE 30 INCHES. WATER LINE WITHIN COMMONWEALTH OF KENTUCKY RIGHT-OF-WAYS SHALL HAVE A MINIMUM COVER OF 42-INCHES.
- CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND ENVIRONMENTAL REGULATIONS GOVERNING UTILITY CONSTRUCTION.
- ALL WATER LINE CROSSING PAVED SURFACE SHALL BE BACKFILLED FULL DEPTH WITH COMPACTED CRUSHED STONE.
- EXISTING AND PROPOSED WATER MAIN LOCATIONS SHALL BE VERIFIED BY WESTERN PULASKI COUNTY WATER DISTRICT PRIOR TO CONSTRUCTION.
- ALL PIPE AND FITTINGS SHALL HAVE A MINIMUM OF 6-INCHES OF BEDDING OF DIRT UNDER AND ON BOTH SIDES OF PIPE UNLESS OTHERWISE SPECIFIED. ALL PIPE AND FITTING SHALL BE BACK-FILLED WITH DIRT UNLESS OTHERWISE SPECIFIED.
- ALL FITTINGS: 90° BENDS, TEES, ETC., SHALL BE BLOCK WITH A MINIMUM OF 12-INCHES POURED CONCRETE AGAINST UNDISTURBED SOIL.
- ALL GATE VALVES SHALL TURN RIGHT TO CLOSE AND TURN LEFT TO OPEN.
- ALL VALVES SHALL BE C.I. VALVE BOXES EXTENDING 2-INCHES ABOVE SURFACE.
- ALL FLUSH HYDRANTS SHALL BE STANDARD 2-WAY 5 1/4-INCHES BREAKAWAY TYPE WITH A MINIMUM 3 1/2- FEET BURY AND TURN LEFT TO OPEN AND RIGHT TO CLOSE.
- ALL PROPOSED WATER LINES SHALL HAVE A #12 COATED TRACER WIRE.
- ALL FLUSH HYDRANTS, WATER VALVES AND FITTINGS SHALL HAVE RESTRAINER GLANDS.
- ALL WATER LINES SHALL BE PRESSURE TESTED TO 150 PSI FOR A MINIMUM OF FOUR (4) HOURS.
- CONTRACTOR SHALL PROVIDE BACTERIAL SAMPLE RESULTS OF PROPOSED WATER LINES TO THE WESTERN PULASKI COUNTY WATER DISTRICT.

OWNER

WESTERN PULASKI COUNTY WATER DISTRICT
 1059 WEST HIGHWAY 80
 SOMERSET, KY 42503
 (606) 679-1569

LINE/CABLE LOCATION SERVICES

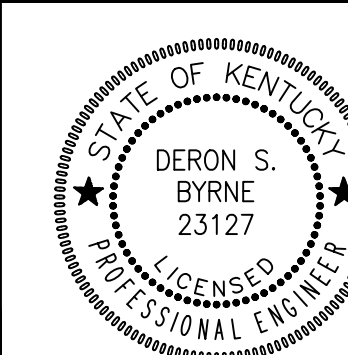


BEFORE-U-DIG (BUD)
 (800) 752-6007

NOTE:
 KENTUCKY STATUTES (KRS 367.4901 THROUGH 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA AND/OR AN UNDERGROUND PROTECTION SERVICE SUCH AS BUD (800-752-6007) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO ALERT UTILITY COMPANIES IN THE AREA WITH UNDERGROUND FACILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.

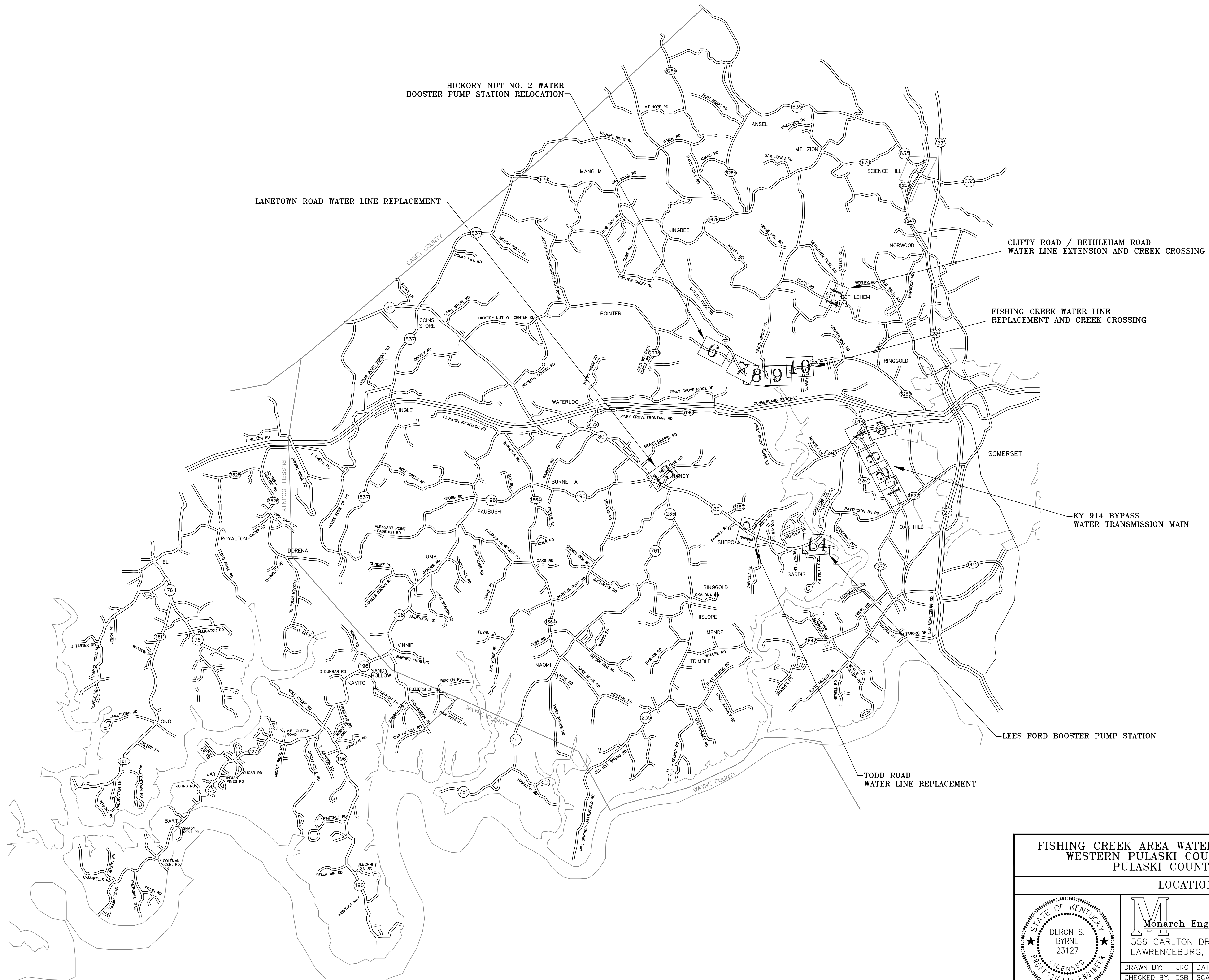
FISHING CREEK AREA WATER SYSTEM IMPROVEMENTS
 WESTERN PULASKI COUNTY WATER DISTRICT
 PULASKI COUNTY, KENTUCKY

GENERAL NOTES



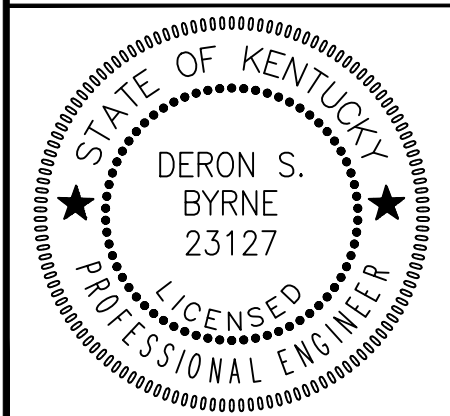
Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

DRAWN BY: JRC	DATE: MAY 2021	REVISED	SHEET
CHECKED BY: DSB	SCALE: N.T.S.		G-1
CHECKED BY: DMB	PROJECT: 2028		



FISHING CREEK AREA WATER SYSTEM IMPROVEMENTS
 WESTERN PULASKI COUNTY WATER DISTRICT
 PULASKI COUNTY, KENTUCKY

LOCATION MAP



M
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 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

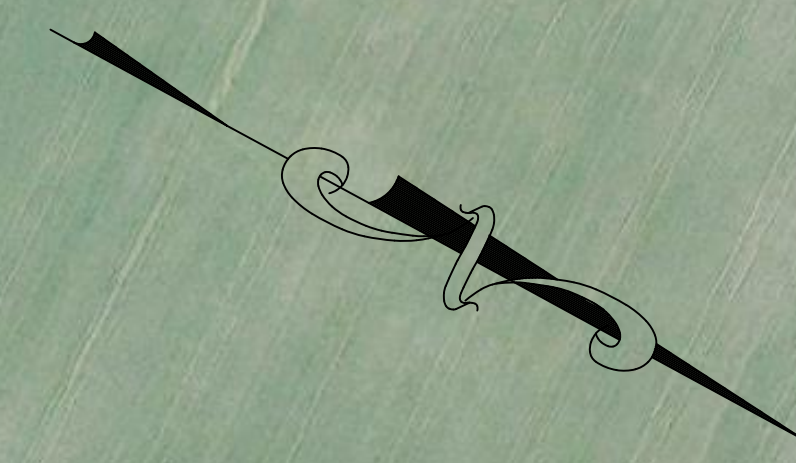
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CHECKED BY: DMB	PROJECT: 2028		



STA. 0+00
 CONNECT NEW 12-INCH WATER LINE TO
 EXISTING 12-INCH WATER LINE BY
 REMOVING EXISTING CAP AND CONNECTING
 DIRECTLY INTO EXISTING VALVE.
 LAT: 37°03'51.70"N
 LONG: 84°38'52.38"W

STA. 0+00 TO STA. 22+00
 NEW 12-INCH WATER LINE
 SHALL BE INSTALLED ALONG
 COMMONWEALTH OF KENTUCKY
 RIGHT-OF-WAY

WATER SYSTEM IMPROVEMENTS WESTERN PULASKI COUNTY WATER DISTRICT PULASKI COUNTY, KENTUCKY				
KY HIGHWAY 914 BYPASS TRANSMISSION MAIN				
	556 CARLTON DRIVE LAWRENCEBURG, KY 40342			
	DRAWN BY: BGB CHECKED BY: DSB CHECKED BY: DMB	DATE: NOV 2020 SCALE: 1"=100' PROJECT: 2028	REVISED:	SHEET 1



LAKE CUMBERLAND SHELL INC.

WARD & REGINA CORRELL

LAKE CUMBERLAND SHELL INC.

BESHEAR FAMILY LIMITED PARTNER

BESHEAR FAMILY LIMITED PARTNER

CARTEL BESHEARS ROAD

INSTALL 250 LF OF BORE & CASE FOR 12-INCH WATER LINE

MATCH LINE SHEET 3

INSTALL 100 LF OF BORE & CASE FOR 12-INCH WATER LINE

INSTALL 100 LF OF BORE & CASE FOR 12-INCH WATER LINE

INSTALL 12-INCH DUCTILE IRON WATER LINE

MATCH LINE SHEET 1

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

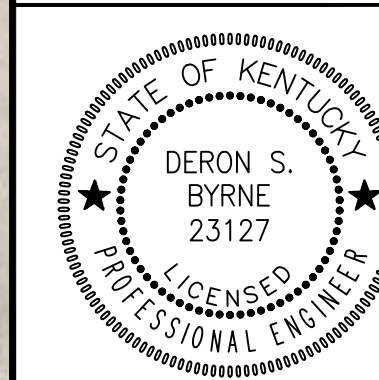
W HIGHWAY 914 BYPASS

CARTEL BESHEARS ROAD

STA. 22+00 TO STA. 53+00
NEW 12-INCH WATER LINE
SHALL BE INSTALLED ALONG
COMMONWEALTH OF KENTUCKY
RIGHT-OF-WAY

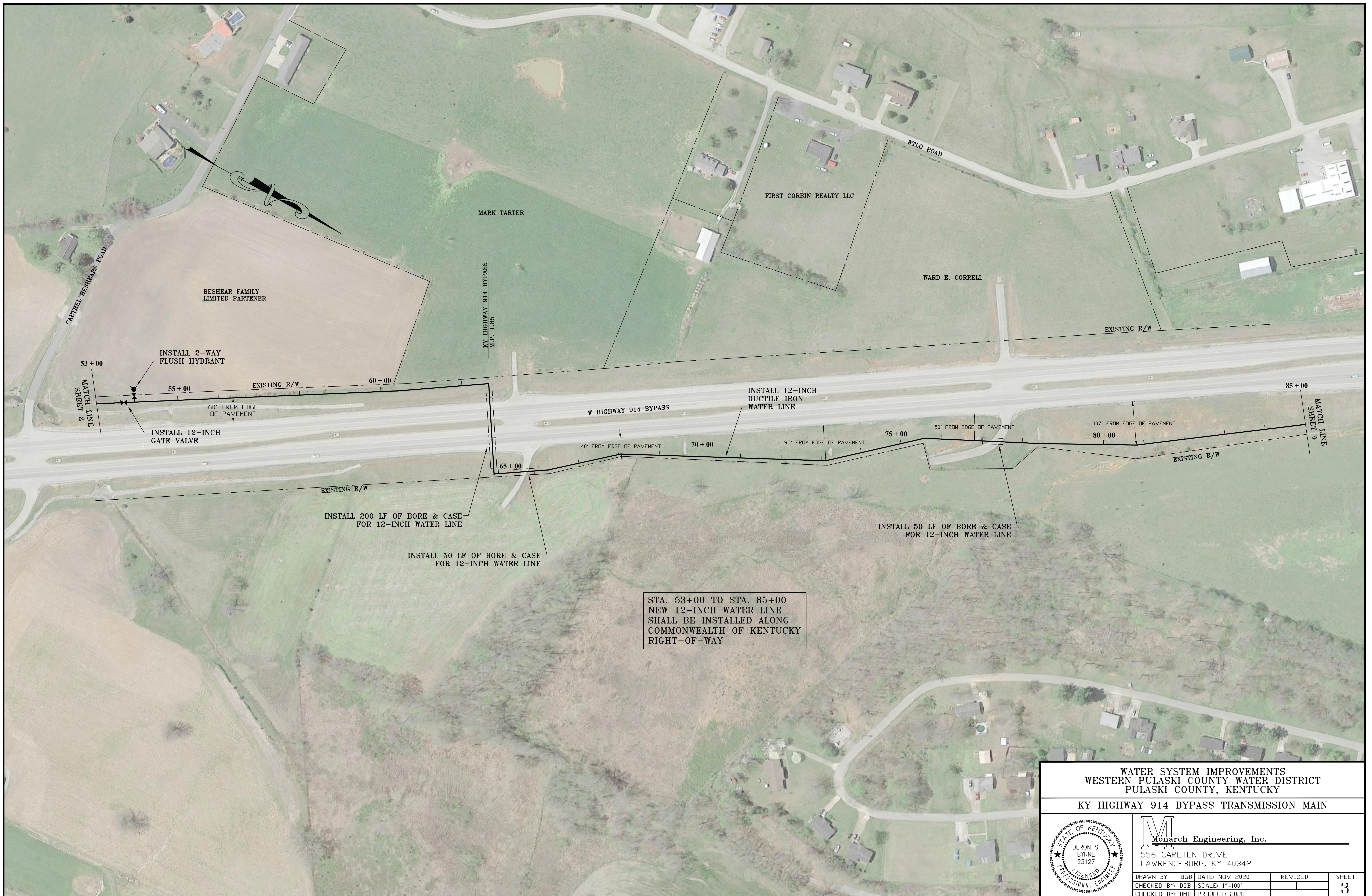
WATER SYSTEM IMPROVEMENTS
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

KY HIGHWAY 914 BYPASS TRANSMISSION MAIN



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556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

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STA. 53+00 TO STA. 85+00
 NEW 12-INCH WATER LINE
 SHALL BE INSTALLED ALONG
 COMMONWEALTH OF KENTUCKY
 RIGHT-OF-WAY

WATER SYSTEM IMPROVEMENTS WESTERN PULASKI COUNTY WATER DISTRICT PULASKI COUNTY, KENTUCKY				
KY HIGHWAY 914 BYPASS TRANSMISSION MAIN				
	556 CARLTON DRIVE LAWRENCEBURG, KY 40342			
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WATER SYSTEM IMPROVEMENTS
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

KY HIGHWAY 914 BYPASS TRANSMISSION MAIN

Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

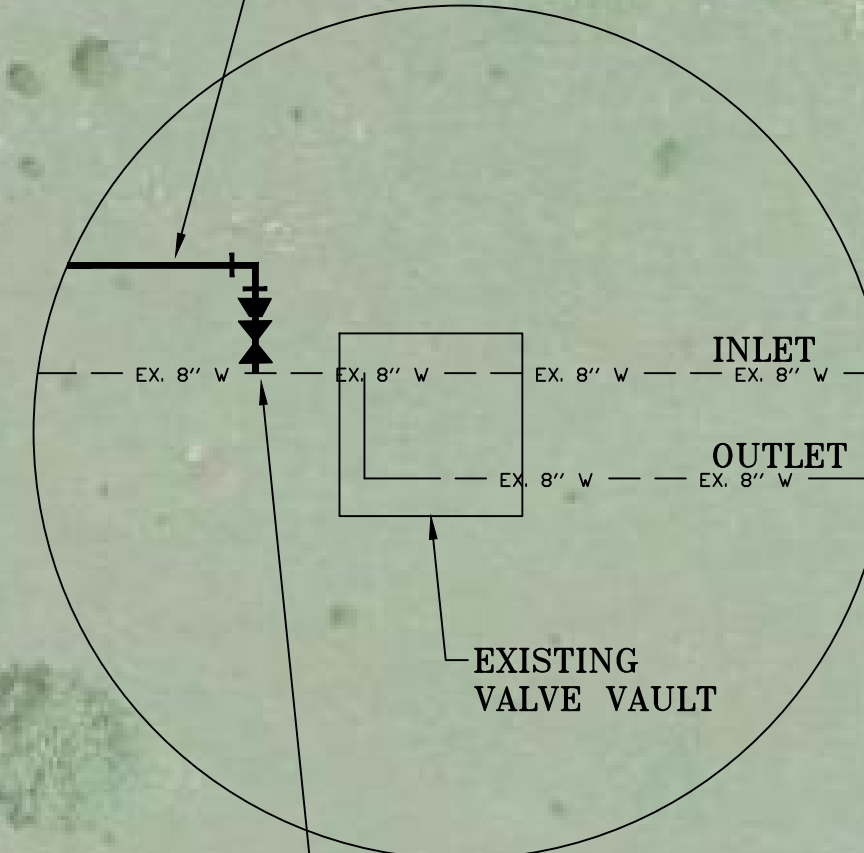
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CHECKED BY: DMB	PROJECT: 2028		



EXISTING 500,000 GALLON
GROUND STORAGE WATER TANK

INSTALL 12-INCH
DUCTILE IRON
WATER LINE

EXISTING 15 FT
EASEMENT



STA. 135+35
CONNECT NEW 12-INCH WATER TRANSMISSION
MAIN TO EXISTING 8-INCH TANK INFLUENT
LINE WITH 12-INCHx8-INCH REDUCER AND
8-INCHx8-INCH TAPPING SLEEVE AND VALVE.

INSTALL 12-INCH
DUCTILE IRON
WATER LINE

MICHAEL LEE & DORIS TODD
c/o MICHAEL TODD

EXISTING 15 FT
EASEMENT

WATER SYSTEM IMPROVEMENTS
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

KY HIGHWAY 914 BYPASS TRANSMISSION MAIN

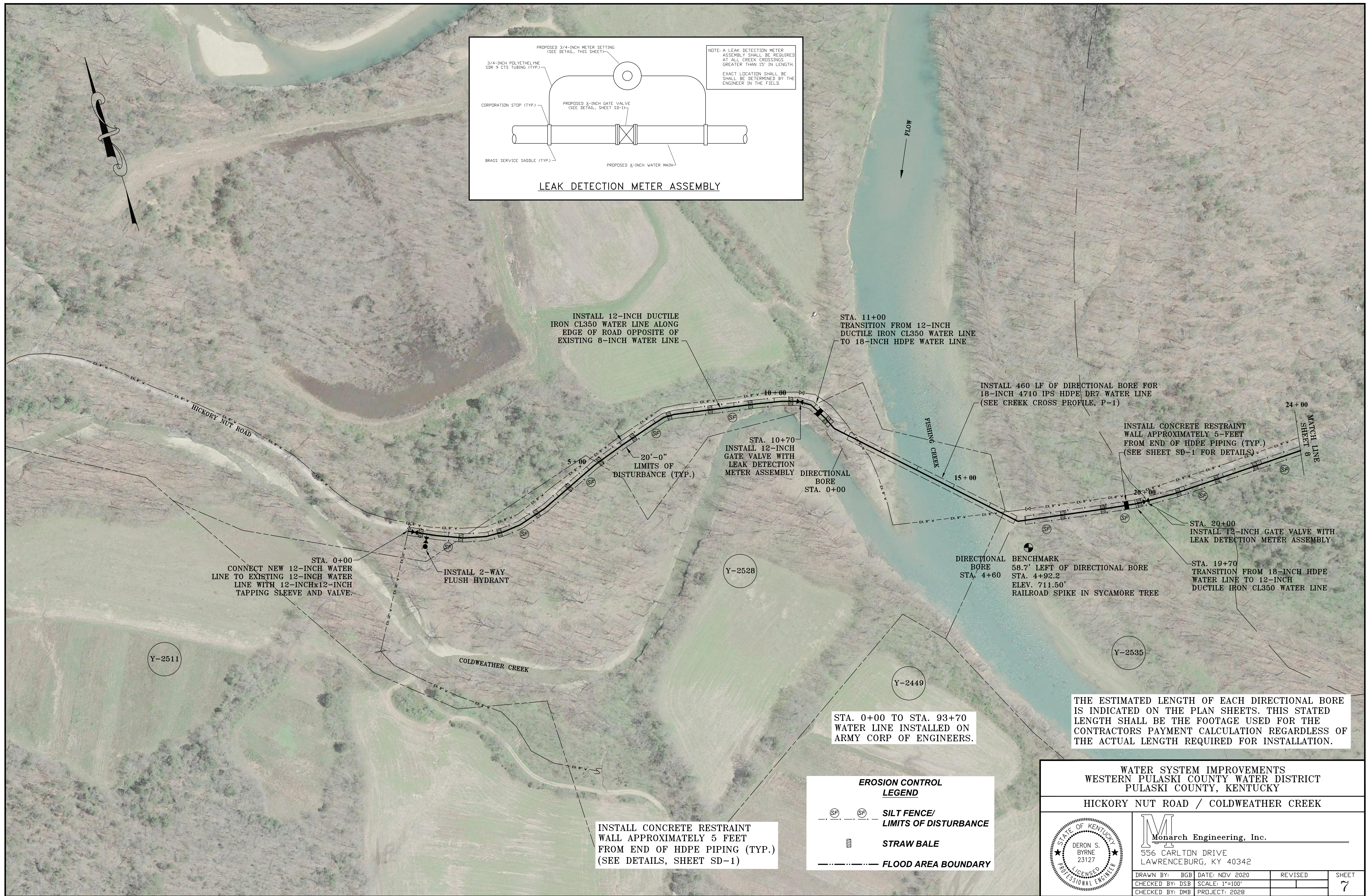
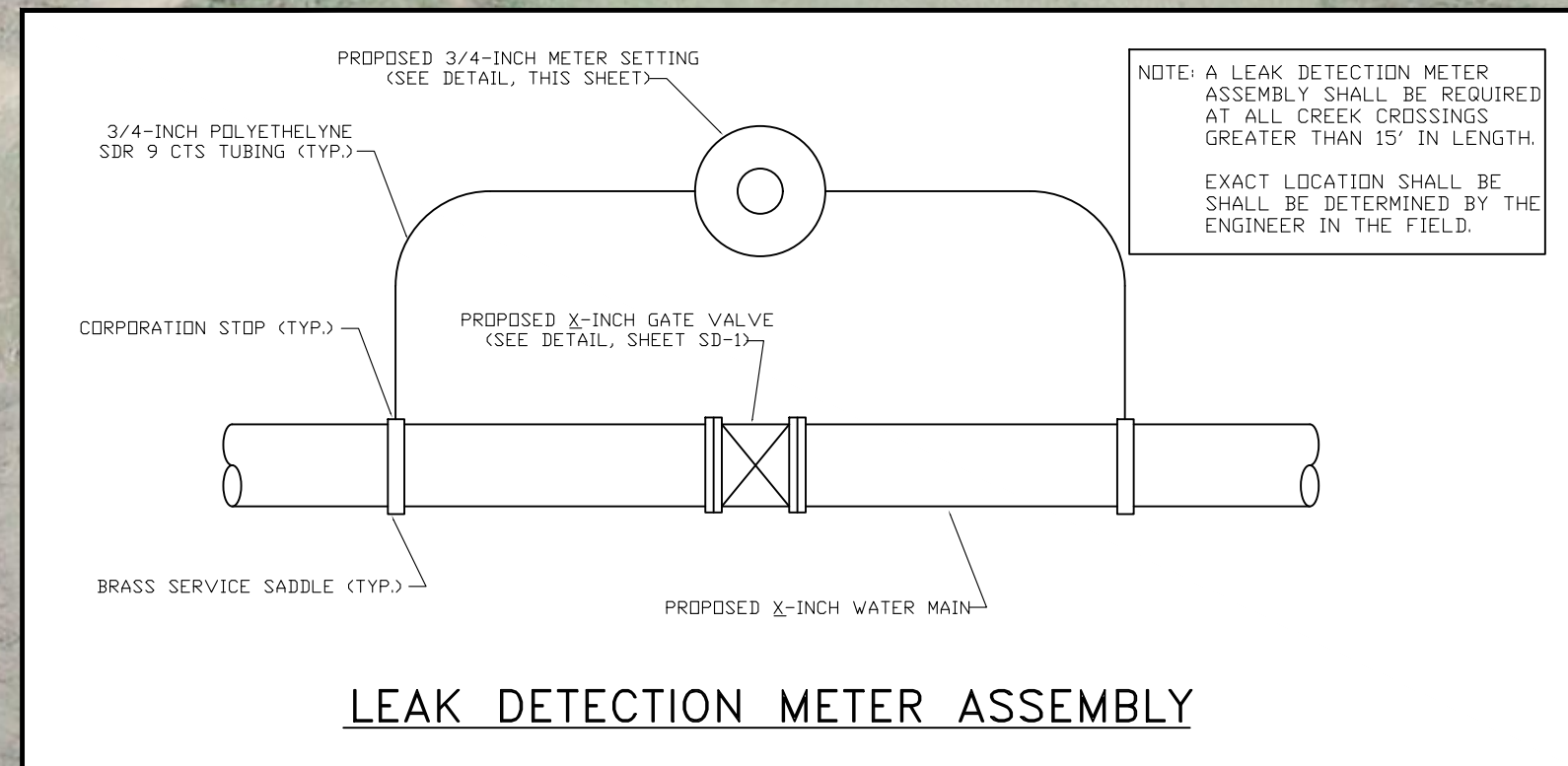


Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

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CHECKED BY: DMB	PROJECT: 2028		



WATER SYSTEM IMPROVEMENTS WESTERN PULASKI COUNTY WATER DISTRICT PULASKI COUNTY, KENTUCKY				
HICKORY NUT NO. 2 PUMP STATION RELOCATION				
	Monarch Engineering, Inc. 556 CARLTON DRIVE LAWRENCEBURG, KY 40342			
	DRAWN BY: BGB	DATE: NOV 2020	REVISED:	SHEET
	CHECKED BY: DSB	SCALE: 1"=100'	PROJECT: 2028	6



INSTALL 12-INCH DUCTILE IRON CL350 WATER LINE ALONG EDGE OF ROAD OPPOSITE OF EXISTING 8-INCH WATER LINE

INSTALL 460 LF OF DIRECTIONAL BORE FOR 18-INCH 4710 IPS HDPE DR7 WATER LINE (SEE CREEK CROSS PROFILE, P-1)

INSTALL CONCRETE RESTRAINT WALL APPROXIMATELY 5- FEET FROM END OF HDPE PIPING (TYP.) (SEE SHEET SD-1 FOR DETAILS)

INSTALL 2-WAY FLUSH HYDRANT

INSTALL 12-INCH GATE VALVE WITH LEAK DETECTION METER ASSEMBLY

INSTALL 12-INCH GATE VALVE WITH LEAK DETECTION METER ASSEMBLY

CONNECT NEW 12-INCH WATER LINE TO EXISTING 12-INCH WATER LINE WITH 12-INCHx12-INCH TAPPING SLEEVE AND VALVE.

INSTALL 20'-0" LIMITS OF DISTURBANCE (TYP.)

INSTALL 12-INCH GATE VALVE WITH LEAK DETECTION METER ASSEMBLY

TRANSITION FROM 12-INCH DUCTILE IRON CL350 WATER LINE TO 18-INCH HDPE WATER LINE

INSTALL 12-INCH GATE VALVE WITH LEAK DETECTION METER ASSEMBLY

TRANSITION FROM 18-INCH HDPE WATER LINE TO 12-INCH DUCTILE IRON CL350 WATER LINE

INSTALL 2-WAY FLUSH HYDRANT

CONNECT NEW 12-INCH WATER LINE TO EXISTING 12-INCH WATER LINE WITH 12-INCHx12-INCH TAPPING SLEEVE AND VALVE.

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TRANSITION FROM 12-INCH DUCTILE IRON CL350 WATER LINE TO 18-INCH HDPE WATER LINE

INSTALL 12-INCH GATE VALVE WITH LEAK DETECTION METER ASSEMBLY

TRANSITION FROM 18-INCH HDPE WATER LINE TO 12-INCH DUCTILE IRON CL350 WATER LINE

Y-2511

Y-2528

Y-2449

Y-2535

STA. 0+00 TO STA. 93+70 WATER LINE INSTALLED ON ARMY CORP OF ENGINEERS.

THE ESTIMATED LENGTH OF EACH DIRECTIONAL BORE IS INDICATED ON THE PLAN SHEETS. THIS STATED LENGTH SHALL BE THE FOOTAGE USED FOR THE CONTRACTORS PAYMENT CALCULATION REGARDLESS OF THE ACTUAL LENGTH REQUIRED FOR INSTALLATION.

INSTALL CONCRETE RESTRAINT WALL APPROXIMATELY 5 FEET FROM END OF HDPE PIPING (TYP.) (SEE DETAILS, SHEET SD-1)

EROSION CONTROL LEGEND

		SILT FENCE/ LIMITS OF DISTURBANCE
		STRAW BALE
		FLOOD AREA BOUNDARY

WATER SYSTEM IMPROVEMENTS
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY

HICKORY NUT ROAD / COLDWEATHER CREEK

Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

DERON S. BYRNE
23127
LICENSED PROFESSIONAL ENGINEER

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