



**Andy Beshear**  
Governor

**Rebecca W. Goodman**  
Secretary  
Energy and Environment Cabinet

Commonwealth of Kentucky  
**Public Service Commission**  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, Kentucky 40602-0615  
Telephone: (502) 564-3940  
Fax: (502) 564-3460  
psc.ky.gov

**Michael J. Schmitt**  
Chairman

**Kent A. Chandler**  
Vice Chairman

**Talina R. Mathews**  
Commissioner

May 24, 2021

## PARTIES OF RECORD

Re: Case No. 2021-00154

Attached is a copy of a presentation received via electronic mail from a representative of Bell Engineering on May 24, 2021 to be filed in the record of the above referenced case.

If you have any questions, please contact Brittany H. Koenig, 502-782-2591.

Sincerely,

A handwritten signature in blue ink that reads "Linda C. Bridwell".

Linda Bridwell  
Executive Director

Attachments

# Water System Improvements Project Status Update

**Martin County Water District**

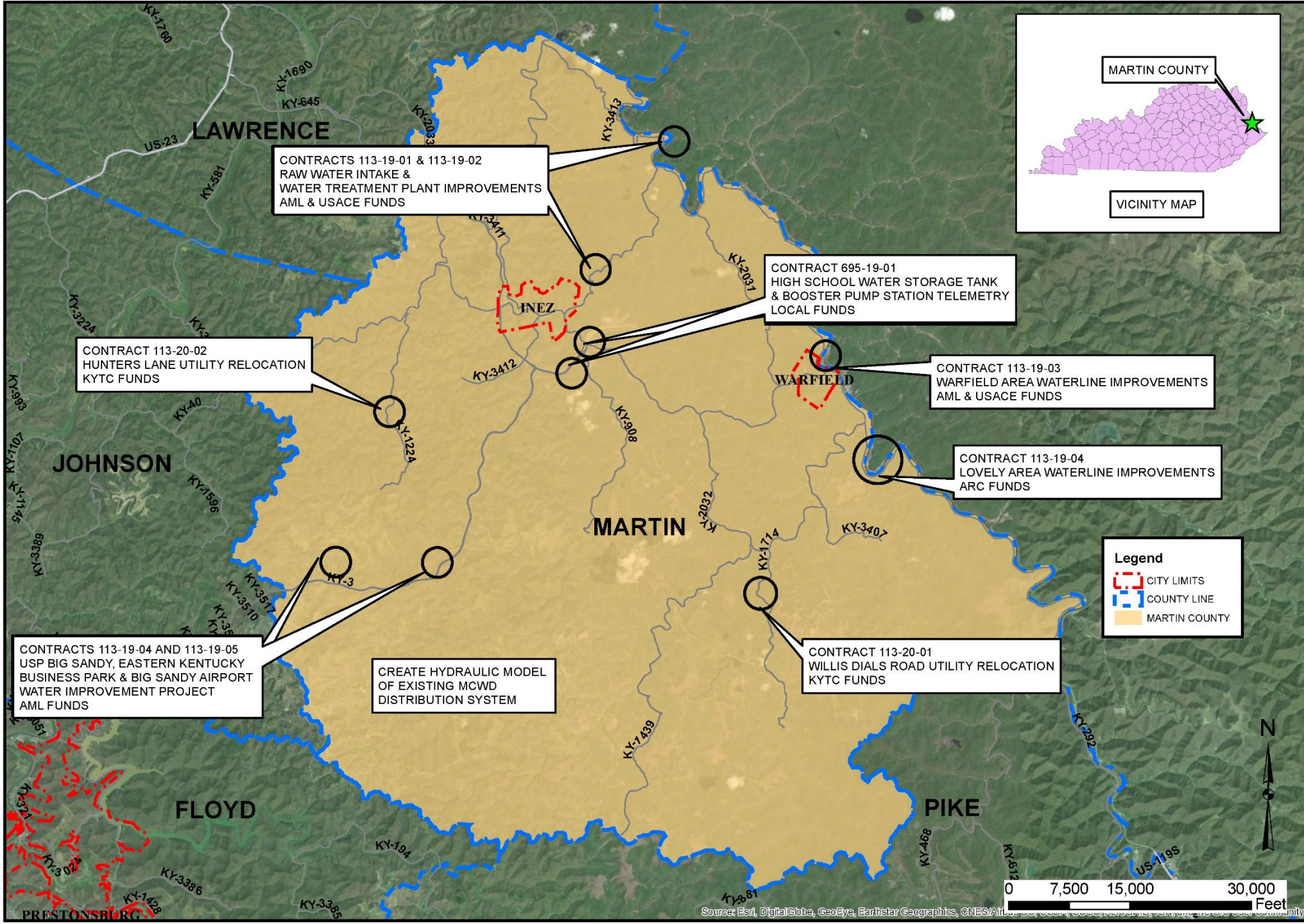
May 12, 2021

# Status Report (BSADD/Bell)

## ► Funding

- AML Pilot NEXUS Grant (2017) - \$3,450,000
- COE 531 Partnership - \$1,869,718
- ARC Grant - \$1,200,000
- AML Pilot NEXUS Grant (2018) - \$2,000,000
- KYTC Bridging Kentucky Funds - Willis Dials / Dan's Branch Road - \$38,357  
- Hunters Lane & Rockhouse Creek - To Be Determined
- KYTC KY 908 Guardrail Project - To Be Determined

## ► Total Grant Funding - \$8,558,075



SCALE:  
1:130,000

**MARTIN COUNTY WATER DISTRICT  
LOCATION OF ONGOING PROJECTS  
MAY 2020**

**Legend**

- CITY LIMITS
- COUNTY LINE
- MARTIN COUNTY

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# Contract 113-19-01

## RWI Improvements Pump Purchase Only

### ▶ Purchase of:

- New 2 MG Raw Water Intake Pump with Variable Speed Drive
- New 4 MG Raw Water Intake Pump with Variable Speed Drive
- New 4,000 GPM River Screen

### ▶ Budget: \$601,200

### ▶ Funding: Abandoned Mine Lands 2017 NEXUS

### ▶ Status:

- Complete
- MCWD has use of the 2 MGD Pump.
- 4 MGD Pump to be placed in service upon completion of the RWI/WTP Project.



# Contract 113-19-02

## RWI & WTP Improvements

### ▶ Raw Water Intake Improvements:

- Concrete Ramp & Winch System for Moving Raw Water Pumps Up & Down Slope
- Electrical Building Upgrade, Telemetry, Line Reactors and Instrumentation

### ▶ Water Treatment Plant Improvements:

- Clarifiers 1 & 3 Rehabilitation with New Valve Vault for Clarifier 1
- Replace Outside Chlorine Chemical Feed Piping & Roof On Chemical Storage Building
- Replace Master Meter
- 500 KVA on-site Backup Generator

▶ **Project Budget:** Construction Budget: \$2,477,850

▶ **Funding:** Abandoned Mine Lands 2017 NEXUS & Army Corps of Engineers

# Contract 113-19-02 (Continued)

## RWI & WTP Improvements

### ► Status:

- Bids for the project rebid were opened on April 13<sup>th</sup>.

- Summary of Bids:

One Bid was received.

Base Bid: \$3,858,387

Base Bid plus Additive Alternates: \$4,003,722

- The MCWD has had discussions with AML and USACE the possibility of moving money from the Warfield Line Replacement Project to the RWI/WTP Project to address the overage.

The MCWD is entering into negotiations with the low bidder concerning the bid alternates and other potential money saving project modifications.

Intent is to award RWI /WTP Project and move forward with construction as soon as negotiations are complete and agency concurrence is obtained.



# Contract 113-19-03

## Mainline, Service Line, Meter Replacement

- ▶ **Replace in the Warfield Area:**
  - Existing Mainline
  - Existing Meters & Service Line
  - Existing Valves & Hydrants
- ▶ **Total Construction Budget: \$992,000**
- ▶ **Funding: Abandoned Mine Lands 2017 NEXUS & Army Corps of Engineers**





# Contract 113-19-03 (Continued)

## Mainline, Service Line, Meter Replacement

### ► Status

- Bids for the project rebid were opened on April 13<sup>th</sup>.
- Bids:
  - 3 Bids were received
  - Base Bid: \$910,463.40
  - Base Bid plus Additive Alternates: \$1,736,825.40
- Due to overage on the RWI/WTP Project, the intent is to defer construction of this project to a later date and use the funds associated with this project for construction of the RWI/WTP Project.
- The District is submitting funding requests in an effort to obtain funding to construct this project as soon as possible.

# Contract 113-19-04

## Mainline, Service Line, Meter Replacement

- ▶ **Upgrades in the Lovely Area include the Replacement of:**
  - Existing Mainline, Meters, Service Line, Valves & Hydrants
- ▶ **Budget:** \$1,200,000
- ▶ **Funding:** Appalachian Regional Commission (ARC)
- ▶ **Status:**
  - Project construction is nearing completion.



# Contracts 113-19-05 & 113-19-06

## USP Big Sandy, Eastern Kentucky Business Park & Big Sandy Airport Water Improvements

### ► Upgrades Include:

- Construction of 250,000 Gallon Water Storage Tank, New 400 GPM Pump Station and telemetry
- Upgrade of the Existing Davella Pump Station
- Master Meter & Booster Chlorination

### ► Budget: \$2,000,000

### ► Funding: Abandoned Mine Lands 2018 NEXUS

### ► Status:

- A previously selected tank site cannot be used.
- While a new tank site is being finalized, design of the pump station, master meter and chlorination system are ongoing.



# Contract 695-19-01

## High School Water Storage Tank & Booster Pump Station Telemetry

- ▶ **Upgrades Include:**
  - Add telemetry to the Holly Bush Pump Station
  - Add telemetry to the High School Water Storage Tank
- ▶ **Budget:** \$65,000
- ▶ **Funding:** Local Funds (Martin County Fiscal Court)
- ▶ **Status:**
  - All equipment installed and operating.



# Contract 113-20-01

## Willis Dials/Dan's Branch Road Utility Relocation

### ► Upgrades Include:

- Relocation of existing waterline to facilitate construction of a new bridge for the KYTC Bridging Kentucky Program

### ► Budget: \$38,357

### ► Funding: KYTC

### ► Status:

- Project approved by Division of Water August 13, 2020.
- Construction completed September 24, 2020.
- Relocated line is in operation.



# Contracts 113-20-02 and 113-20-03 Hunters Ln. & Rockhouse Creek Utility Relocations

## ► Upgrades Include:

- Relocation of existing waterline to facilitate construction of two new bridges for the KYTC Bridging Kentucky Program

## ► Budget: To Be Determined

## ► Funding: KYTC

## ► Status:

- Developing project scope with Bizzack Construction and Alliance Resources. Construction scheduled for later in 2021.



**BRIDGING  
KENTUCKY**  
Restore | Renew | Replace

# KY 908 Guardrail Project

## ► Upgrades Include:

- Relocation of existing 14” waterline along Route 908 to facilitate installation of new guardrail.

## ► Budget: To Be Determined

## ► Funding: KYTC

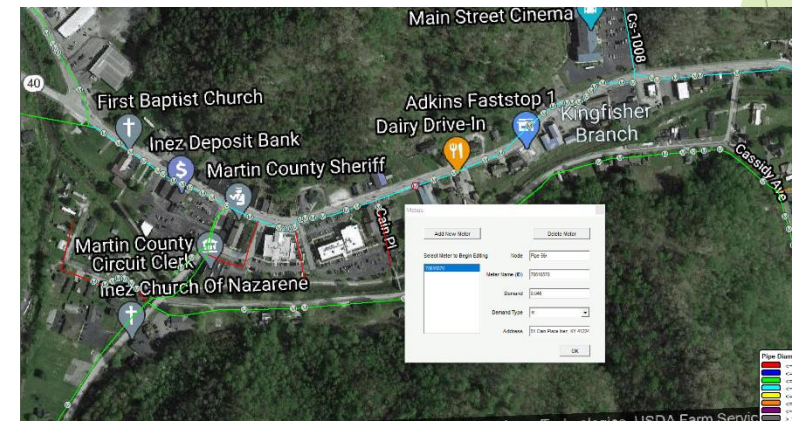
## ► Status:

- Awaiting additional directive from KYTC.



# Martin County Water District Hydraulic Model

- ▶ Prepare and Calibrate a Hydraulic Model of the Martin County Water District System
- ▶ Budget: \$100,000
- ▶ Funding: Abandoned Mine Lands 2017 NEXUS
- ▶ Status:
  - Lines, tanks and PRVs have been input into the model and location field verified.
  - Line sizes have been verified.
  - Pressure zones have been analyzed.
  - Usage data has been entered into the model.
  - Model has been calibrated with field collected data.
  - Model has been checked against field observations.
  - Bell Model has been shared with University of Kentucky.
  - UK has shared their model with Bell.





# Discussion/Questions

\*Martin County Water District  
387 East Main Street, Suite 140  
Inez, KY 41224

\*Craig Miller  
Martin County Water District  
c/o Alliance Water Resources, Inc.  
1402 East Main Street  
Inez, KY 41224

\*Cassandra Moore  
Martin County Water District  
c/o Alliance Water Resources, Inc.  
1402 East Main Street  
Inez, KY 41224

\*Brian Cumbo  
Attorney at Law  
P.O. Box 1844  
Inez, KENTUCKY 41224

\*Mary V. Cromer  
Appalachian Citizens' Law Center, Inc.  
317 Main Street  
Whitesburg, KENTUCKY 41858