Water System Improvements Project Status Update

Martin County Water District

February 10, 2021

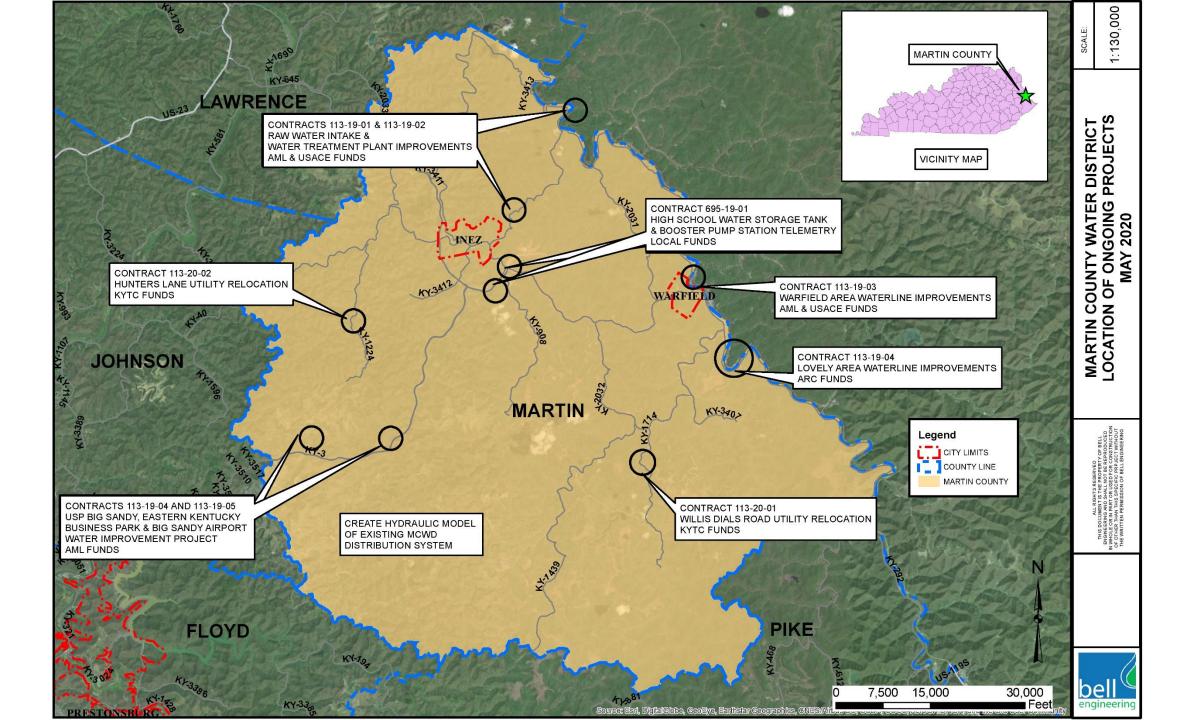
Status Report (BSADD/Bell)

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



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:

- Design, Bidding & Fabrication Complete
- MCWD currently utilizing 2 MGD Pump.
- 4 MGD Pump to be placed in service upon completion of Contract 113-19-02.



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: \$3,098,860 (Construction Budget: \$2,477,850)
- **Funding:** Abandoned Mine Lands 2017 NEXUS & Army Corps of Engineers

Contract 113-19-02 (Continued) RWI & WTP Improvements

Status:

• Project Bids were opened on December 15, 2020.

Bids:

One Bid was received

Base Bid: \$3,396,220

Base Bid plus Additive Alternates: \$3,550,567



Funding Shortfall (Base+Add Alternates+Contingency): \$1,179,989

Intent to Rebid Project

February 17 - MCWD & Bell to Discuss Potential Project Modifications

- March 4 Send Plans/Specs to Lynn Imaging for Rebid
- March 10 Advertise Project for Rebid
- March 30 Open Rebid

Contract 113-19-03 Mainline, Service Line, Meter Replacement

Replace in the Warfield Area:

- Existing Mainline
- Existing Meters & Service Line
- Existing Valves & Hydrants
- Total Project Budget: \$1,260,658 (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

- Project Bids were opened on December 15, 2020.
- Bids:
 - 5 Bids were received
 - Base Bid: \$810,444
 - Base Bid plus Additive Alternates: \$1,260,210
 - Funding Shortfall (Base+Add Alternates+Contingency): \$295,031
- Intent is to Rebid Project
 - February 17 MCWD & Bell to Discuss Potential Project Modifications
 - March 4 Send Plans/Specs to Lynn Imaging for Rebid
 - March 10 Advertise Project for Rebid
 - March 30 Open Rebid
- Total Funding Shortfall for WTP/RWI & Line Projects: \$1,475,020

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 is under Construction (Phase 1 nearly complete. Phase 2 starting)
 - Anticipated Completion Date: March 20, 2021





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
 - Currently evaluating potential new sites for the tank & pump station



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:
 - Design: Complete
 - Bidding: Complete
 - Award: Complete
 - Materials Fabrication: Complete
 - Construction: All equipment installed.



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.



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 Summer 2021.



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:**
 - Next Meeting with KYTC scheduled for February 24, 2021.



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.



Discussion/Questions