

**CLAY-ROANE PUBLIC SERVICE DISTRICT
CLAY AND ROANE COUNTIES, WEST VIRGINIA
WATER SYSTEM IMPROVEMENTS & REPAIRS – PHASE I**

BACKGROUND

The Clay-Roane Public Service District currently serves 930 customers with potable water in southern Roane County and western Clay County. The PSD, which began operation in 1982, has 70 miles of water mains, seven tanks, five booster pumping stations and an 87-gpm water treatment plant. Over the past ten years, the PSD has experienced over 125 main line leaks in the Amma and Pigeon areas, and those leaks have resulted in frequent and prolonged water outages for many customers. In addition to replacing the water mains in the Amma and Pigeon areas, failing equipment in the booster pumping station and Pressure Reducing Stations needs to be replaced to reduce the number of leaks and the number and duration of water outages; replacing the existing manual-read and touch-read water meters will improve efficiencies and allow more maintenance time to be devoted to finding and repairing leaks.

The Clay-Roane PSD has worked diligently to repair and replace failing pipe and equipment, but with rates currently exceeding \$70/month (seventh highest rate in West Virginia), which equates to over 2.4% of MHI, making significant progress with leak reduction has been very difficult.

PROPOSED PROJECT

The proposed project will include:

- Replacing 50,000 LF of 2-inch, 6-inch and 8-inch mains
- Replacing (74) 2-inch – 8-inch valves
- Replacing 1,000 water meters with new touch-read meters
- Refurbish (3) Pressure Reducing Stations
- Refurbish or Replace (3) booster pumping stations

In addition to the “Congressionally Directed Spending” (CDS) grant, funding for the project will be obtained from the WV Bureau for Public Health’s DWTRF and from the WV Infrastructure & Jobs Development Council.

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PROJECT SCHEDULE

The project schedule is shown below.

Professional Services Acquired	March 30, 2023
All Agreements Executed & Approved, excluding Construction.....	July 1, 2023
Plans & Specs Submitted to Applicable Agencies	June 15, 2024
All Permits Submitted.....	June 15, 2024
Final Plans & Specs Approved	September 15, 2024
Rule 42 Completed	June 15, 2024
Municipal Rate Ordinance Completed.....	July 15, 2024
Request for All Binding Commitments	September 15, 2024
File PSC Certificate Case.....	September 15, 2024
80% ROWS & Easements, and 100% Land Acq. Recorded	September 15, 2024
Request Authorization to Bid.....	December 15, 2024
Advertise for Bids	January 15, 2025
Bid Opening.....	February 15, 2025
100% ROWs, Easements & Land Acquisitions Recorded	February 15, 2025
All Permits and Clearances Obtained	February 15, 2025
PSC Certificate Final	February 15, 2025
Award Contracts	March 1, 2025
Start Construction	March 15, 2025
Project Completion	July 31, 2026

CLAY-ROANE PUBLIC SERVICE DISTRICT
WATER SYSTEM IMPROVEMENTS & REPAIRS - Phase I
Waterline Replacement (Amma - Pigeon Creek)

Thrasher Project # T10-111069.00

February 2023

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL COST
6" PVC Waterline	20,000 LF	\$82.50 LF	\$1,650,000.00
8" PVC Waterline	28,000 LF	\$92.50 LF	\$2,590,000.00
2" CL350 PVC	2,000 LF	\$50.00 LF	\$100,000.00
2" Gate Valve	12 EA	\$2,500.00 EA	\$30,000.00
4" Gate Valve	12 EA	\$3,000.00 EA	\$36,000.00
6" Gate Valve	25 EA	\$4,000.00 EA	\$100,000.00
8" Gate Valve	25 EA	\$5,000.00 EA	\$125,000.00
Hydrant Reconnections	15 EA	\$2,000.00 EA	\$30,000.00
Service Reconnections	80 EA	\$500.00 EA	\$40,000.00
Radio-read Water Meter Installed	1,000 EA	\$750.00 EA	\$750,000.00
Refurbish White Road PRV	2 EA	\$75,000.00 EA	\$150,000.00
Refurbish Amma PRV	1 EA	\$50,000.00 EA	\$50,000.00
Amma PRV Generator	1 EA	\$25,000.00 EA	\$25,000.00
Replace Hooks Booster PS	1 EA	\$350,000.00 EA	\$350,000.00
Pumpkin Ridge Booster PS Upgrade	1 LS	\$50,000.00 LS	\$50,000.00
Ovapa Booster PS Upgrade	1 LS	\$40,000.00 LS	\$40,000.00
30,000 Gallon Tanks	2 EA	\$415,000.00 EA	\$830,000.00
Office Trailers	2 EA	\$15,000.00 EA	\$30,000.00
Video Taping	1 LS	\$25,000.00 LS	\$25,000.00
Mobilization	1 LS	\$30,000.00 LS	\$30,000.00
Bonds and Insurance	1 LS	\$25,000.00 LS	\$25,000.00
Construction Sub-Total			\$7,056,000.00
Construction Contingency @ ±15%			\$1,054,000.00
CONSTRUCTION TOTAL			\$8,110,000.00

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WATER SYSTEM IMPROVEMENTS & REPAIRS - Phase I
Waterline Replacement (Amma - Pigeon Creek)

PRELIMINARY COST ESTIMATE

Thrasher Project # T10-11069.00

February 2023

PROJECT COST SUMMARY

Total Estimated Construction Costs		\$7,056,000.00
Planning		\$60,000.00
Study and Report Phase		
Design Phase		\$475,000.00
Bidding and Negotiation		\$40,000.00
Construction Phase (Engineering During Construction)		\$325,000.00
Post-Construction Phase		\$60,000.00
Resident Project Representative		\$320,000.00
Special Services		\$180,000.00
<i>O&M Manual</i>	<i>\$25,000.00</i>	
<i>AIS Compliance</i>	<i>\$20,000.00</i>	
<i>Surveying, Mapping and Geotech</i>	<i>\$110,000.00</i>	
<i>Permitting</i>	<i>\$25,000.00</i>	
Legal Fees		\$85,000.00
<i>Local Project Attorney</i>	<i>\$20,000.00</i>	
<i>Land & ROWs Attorney</i>	<i>\$25,000.00</i>	
<i>PSC Attorney</i>	<i>\$40,000.00</i>	
Administration Fees		\$215,000.00
<i>Project Administrator</i>	<i>\$150,000.00</i>	
<i>Project Accountant</i>	<i>\$50,000.00</i>	
<i>Other Administrator Cost (Permits & Advertising)</i>	<i>\$15,000.00</i>	
Financing		\$75,000.00
<i>Interim Financing</i>	<i>\$25,000.00</i>	
<i>Capitalized Interest</i>	<i>\$0.00</i>	
<i>Bond Counsel/Other Closing Costs</i>	<i>\$50,000.00</i>	

		\$0.00
Permits		
<i>USACOE Nationwide or Individual Permit</i>	\$0.00	
<i>Phase I Archeological Study</i>	\$0.00	
<i>Habitat Assessment (Indiana/Northern Long-Eared Bats)</i>	\$0.00	
<i>Conservation Plan</i>	\$0.00	
<i>Mussel Survey</i>	\$0.00	
<i>Mussel Relocation</i>	\$0.00	
<i>HPI Inventory Application</i>	\$0.00	
<i>NPDES Discharge Permit</i>	\$0.00	
<i>NPDES Stormwater Construction Permit</i>	\$0.00	
<i>WVDEP Air Quality Permit</i>	\$0.00	
<i>Railroad Permit</i>	\$0.00	
<i>Environmental Mitigation Plan / Implementation</i>	\$0.00	
<i>WVDOH</i>	\$0.00	
Land Costs		\$55,000.00
<i>Land Acquisition</i>	\$30,000.00	
<i>Obtain Right-Of-Way</i>	\$0.00	
<i>Right-Of-Way Coordination Assistance</i>	\$0.00	
<i>Easements</i>	\$25,000.00	
<i>Fee Takes</i>	\$0.00	
Total Soft Costs		\$1,890,000.00
Project Construction Contingency		\$1,054,000.00
TOTAL PROJECT COST		\$10,000,000.00