

Update on Drinking Water Projects

to be completed by the

Rivanna Water & Sewer Authority



Ragged Mountain Reservoir

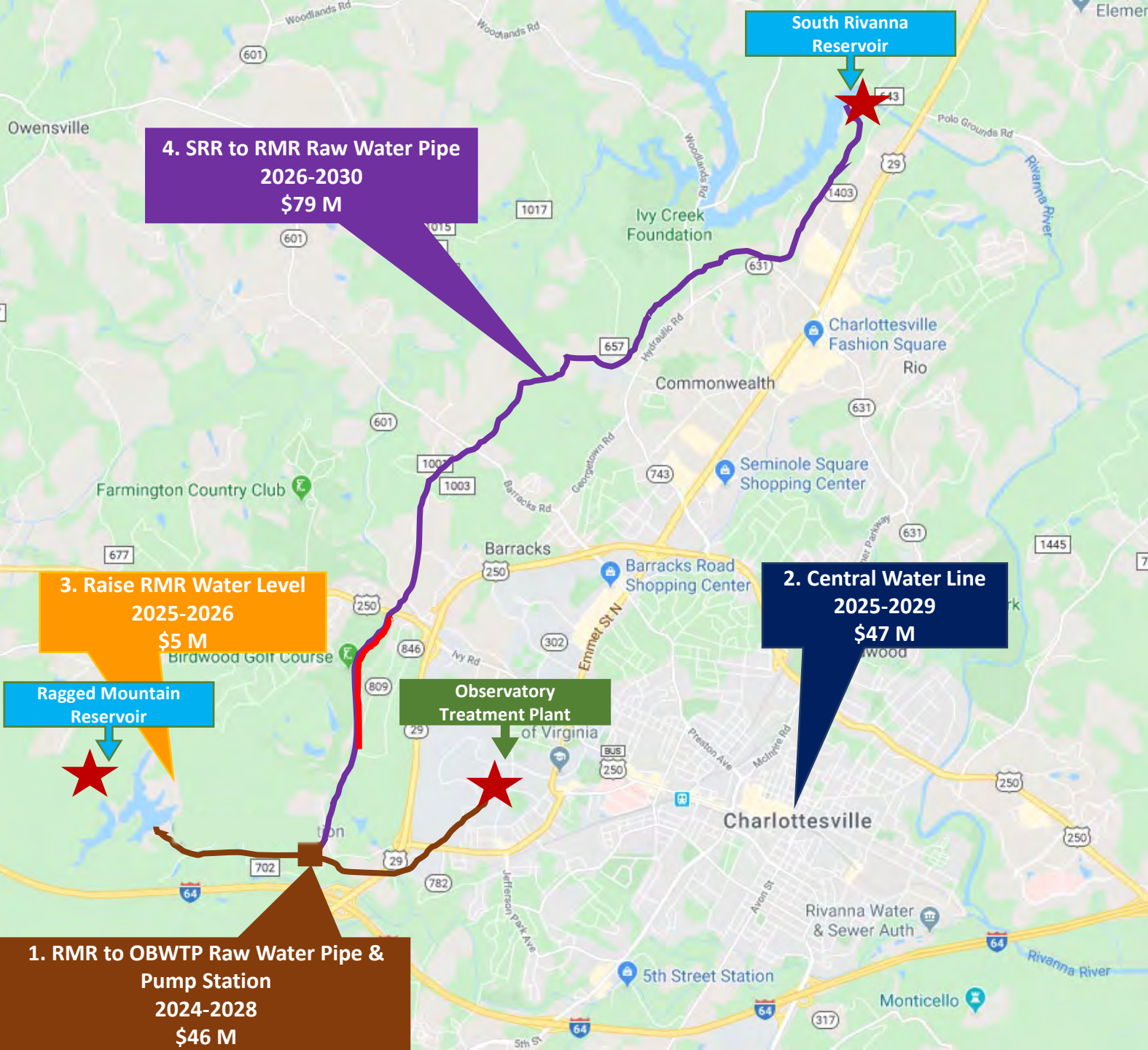
Presented to the LUEPC

By: Bill Mawyer

RWSA Executive Director

February 16, 2024





Water Supply Projects

(February 2, 2024)

1. RMR to OBWTP Raw Water Pipe & Pump Station
2024-2028

\$46 M

2. Central Water Line
2025-2029

\$47 M

3. Raise RMR Water Level
2025-2026

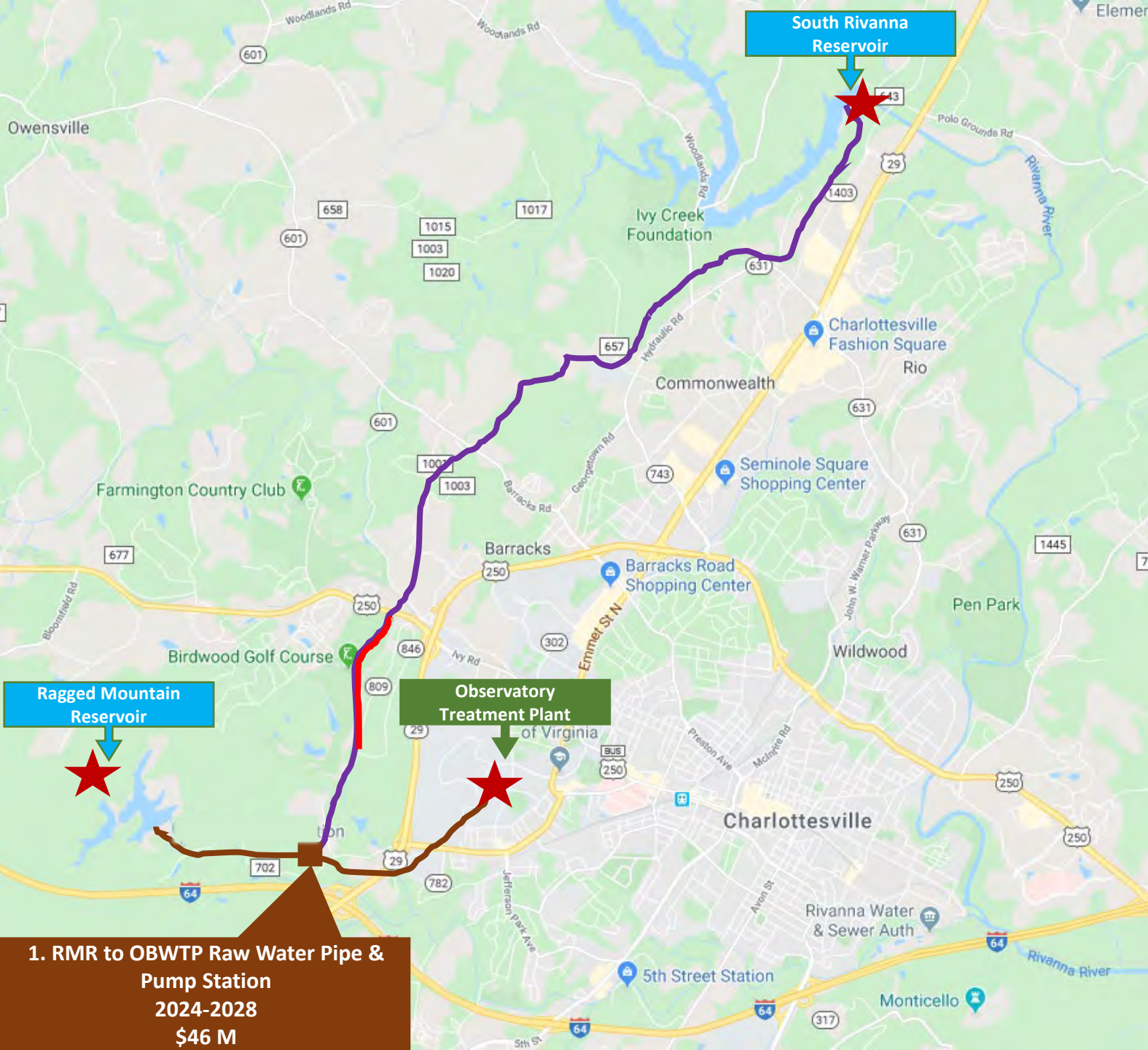
\$5 M

4. SRR to RMR Raw Water Pipe
2026-2030

\$79 M

ACSA \$118 M
City \$59 M

\$177 M



Water Supply Projects

(February 2, 2024)

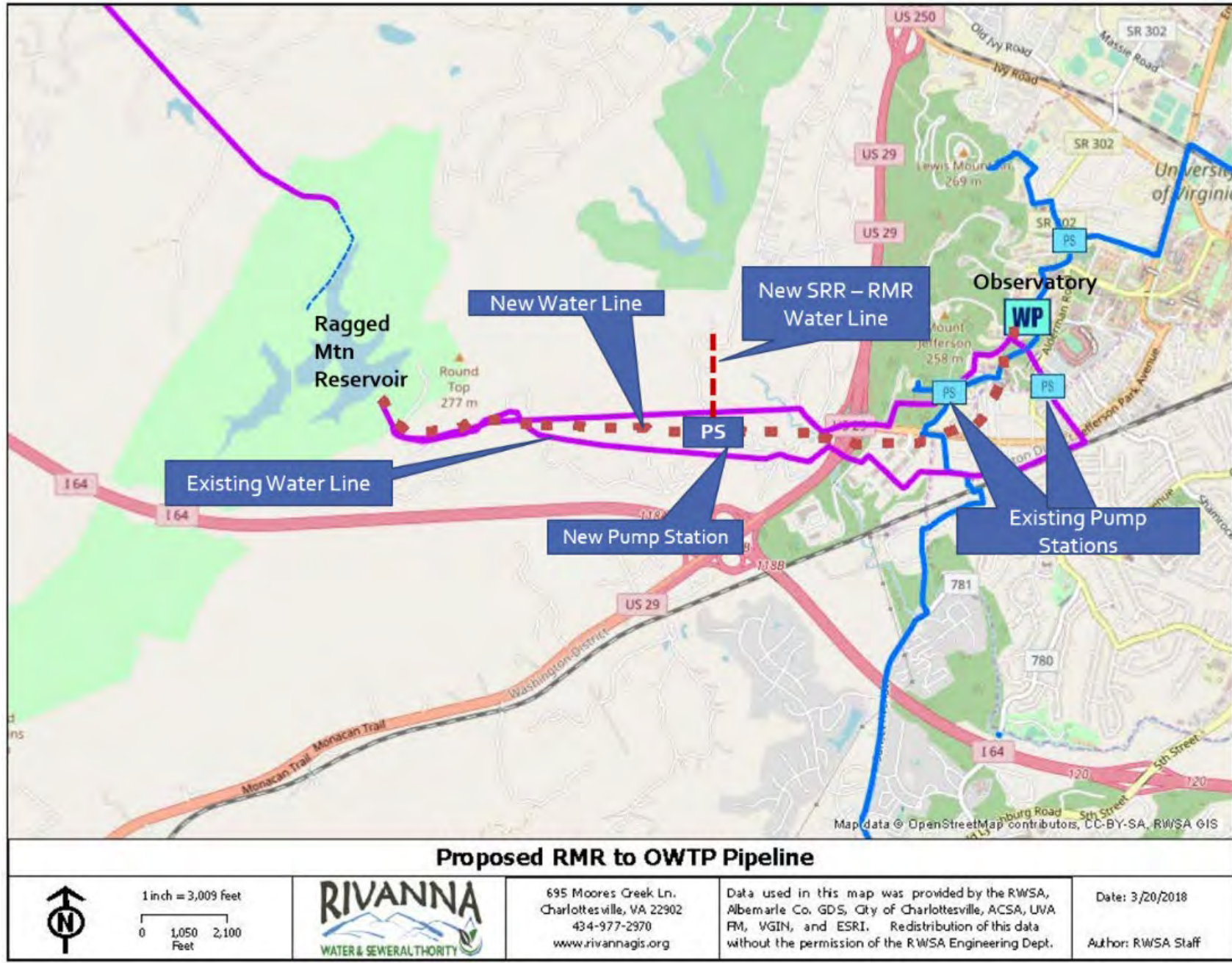
1. RMR to OBWTP Raw Water Pipe & Pump Station
2024-2028

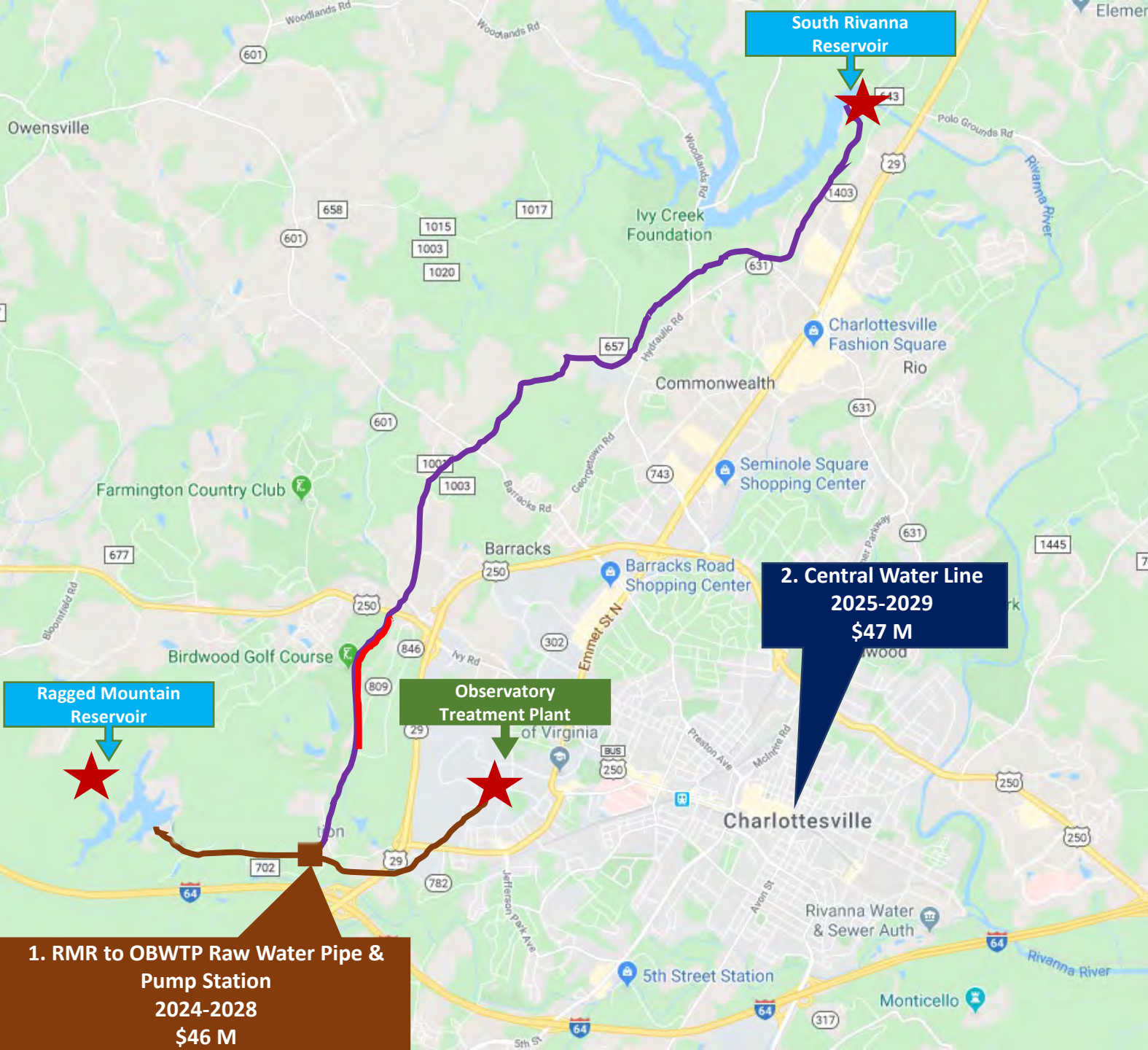
\$46 M

1. RMR to OBWTP Raw Water Pipe & Pump Station
2024-2028
\$46 M

Ragged Mtn Reservoir to Observatory WTP – Water Line and Pump Station

- 4 miles of 36-inch raw water piping
- Improved reliability by replacing end-of-service life infrastructure: 40- and 70-year-old pump stations plus 70 and 110-year-old water lines
- Budget \$46 M
 - Piping 48% City / 52% ACSA
 - PS 28% City / 72% ACSA





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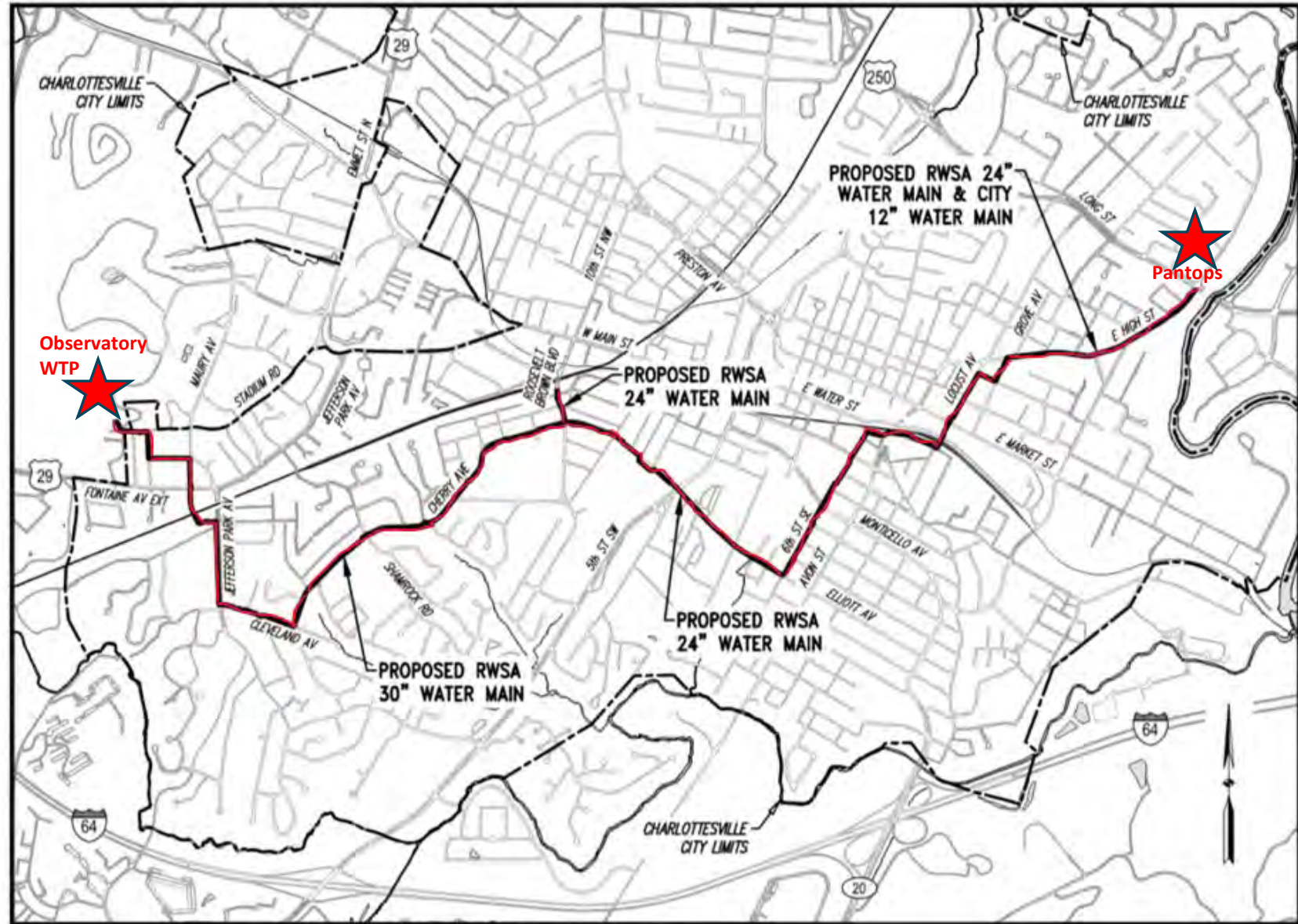
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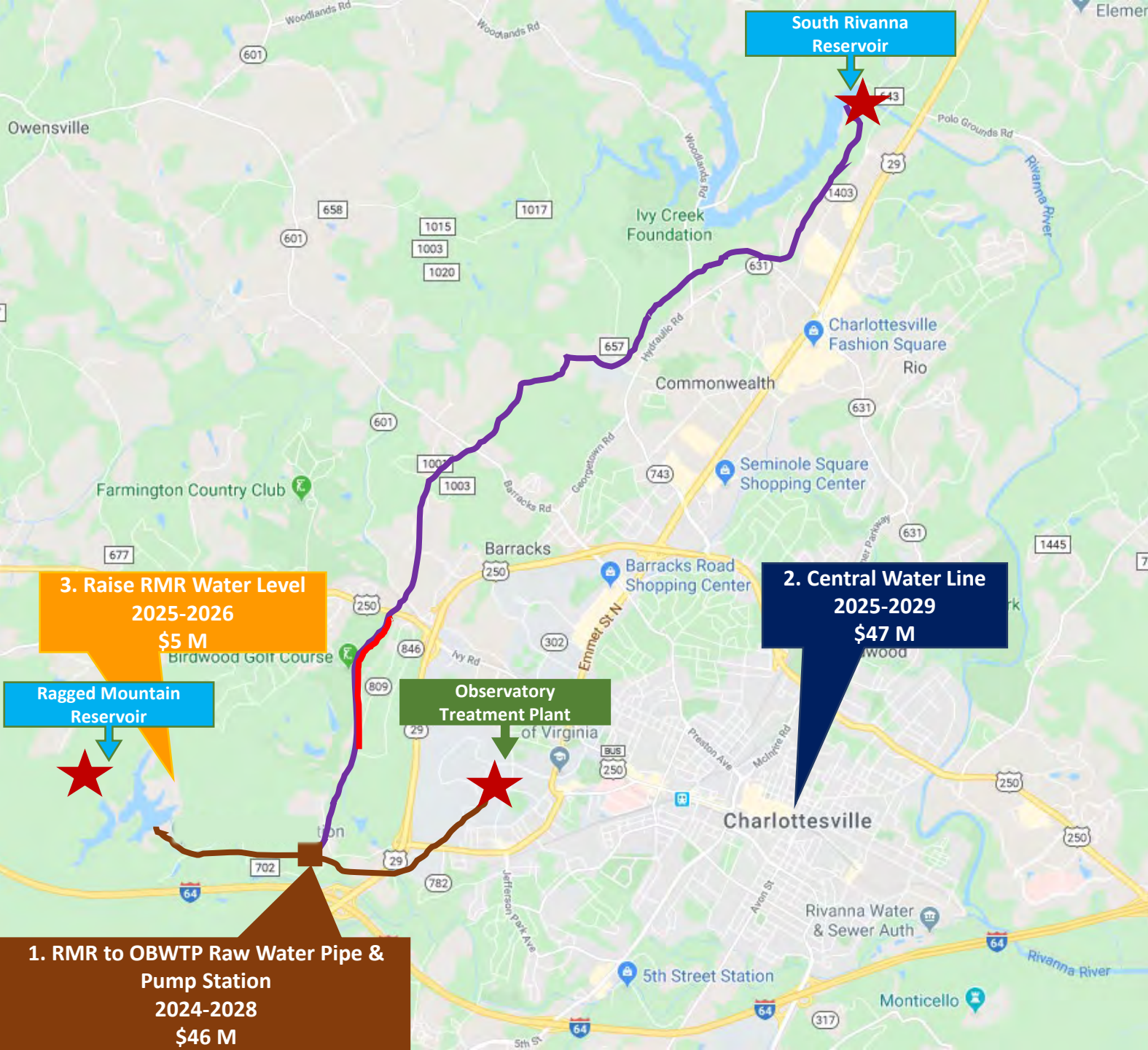
2. Central Water Line
2025-2029
\$47 M

Central Water Line

- 5 miles of 24 & 36-inch treated water piping. Will more efficiently convey drinking water, improve redundancy, and generally strengthen the Urban Area Drinking Water System
- Completion: 2025 -2029
- Budget: \$47 M
48% City / 52% ACSA



VICINITY MAP



Water Supply Projects

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\$5 M

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2025-2026
\$5 M

An aerial photograph showing a large dam structure across a reservoir. The dam is a long, low wall with a concrete spillway on the right side. The reservoir is filled with dark blue water and is surrounded by a dense forest of green trees. A paved road runs along the right side of the dam, and a smaller pond is visible in the foreground. The text "2023 Amendment to the 2012 Ragged Mountain Dam Project Agreement" is overlaid in white on the image.

2023 Amendment
to the
2012 Ragged Mountain Dam Project Agreement



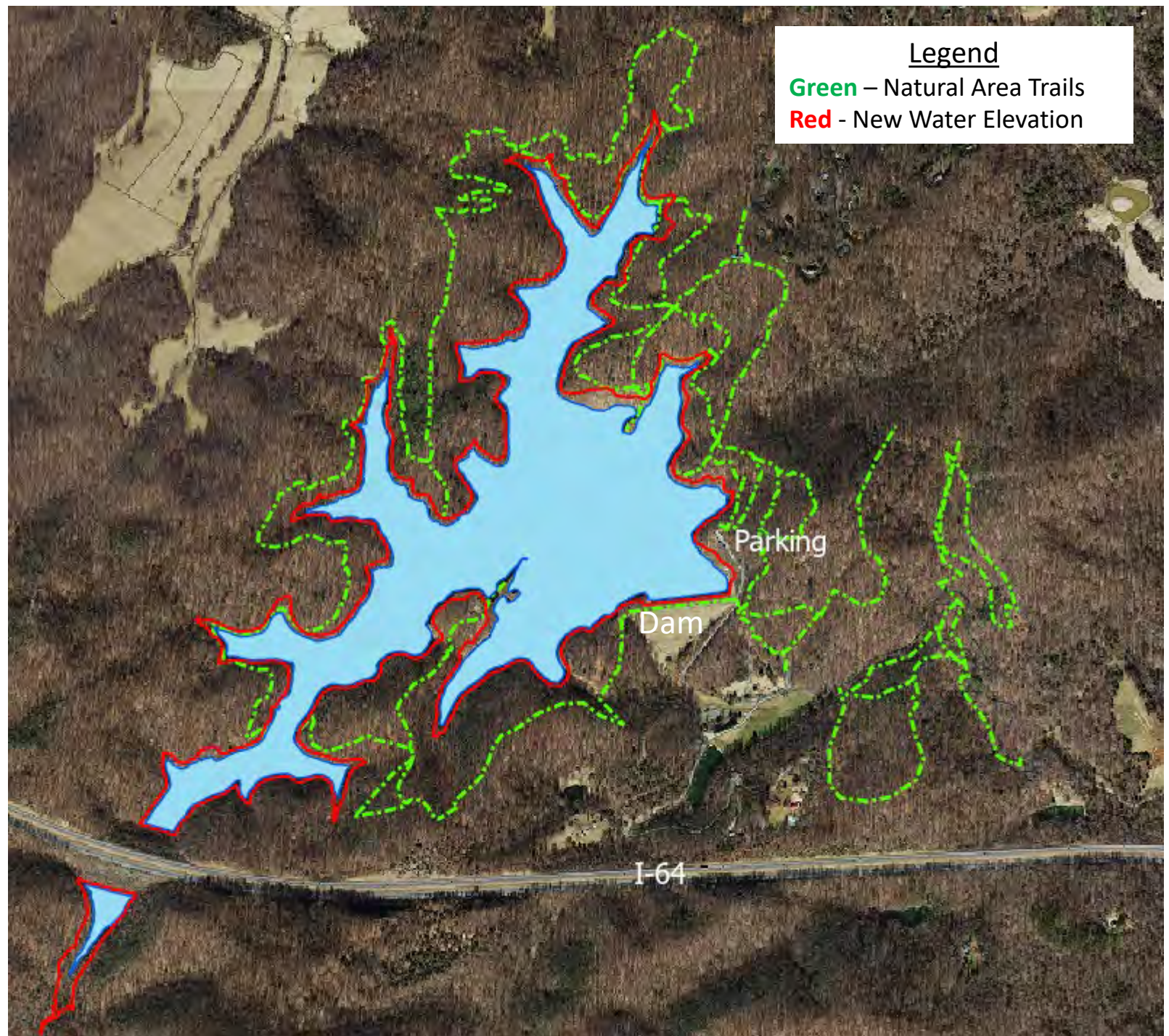
pool level 683

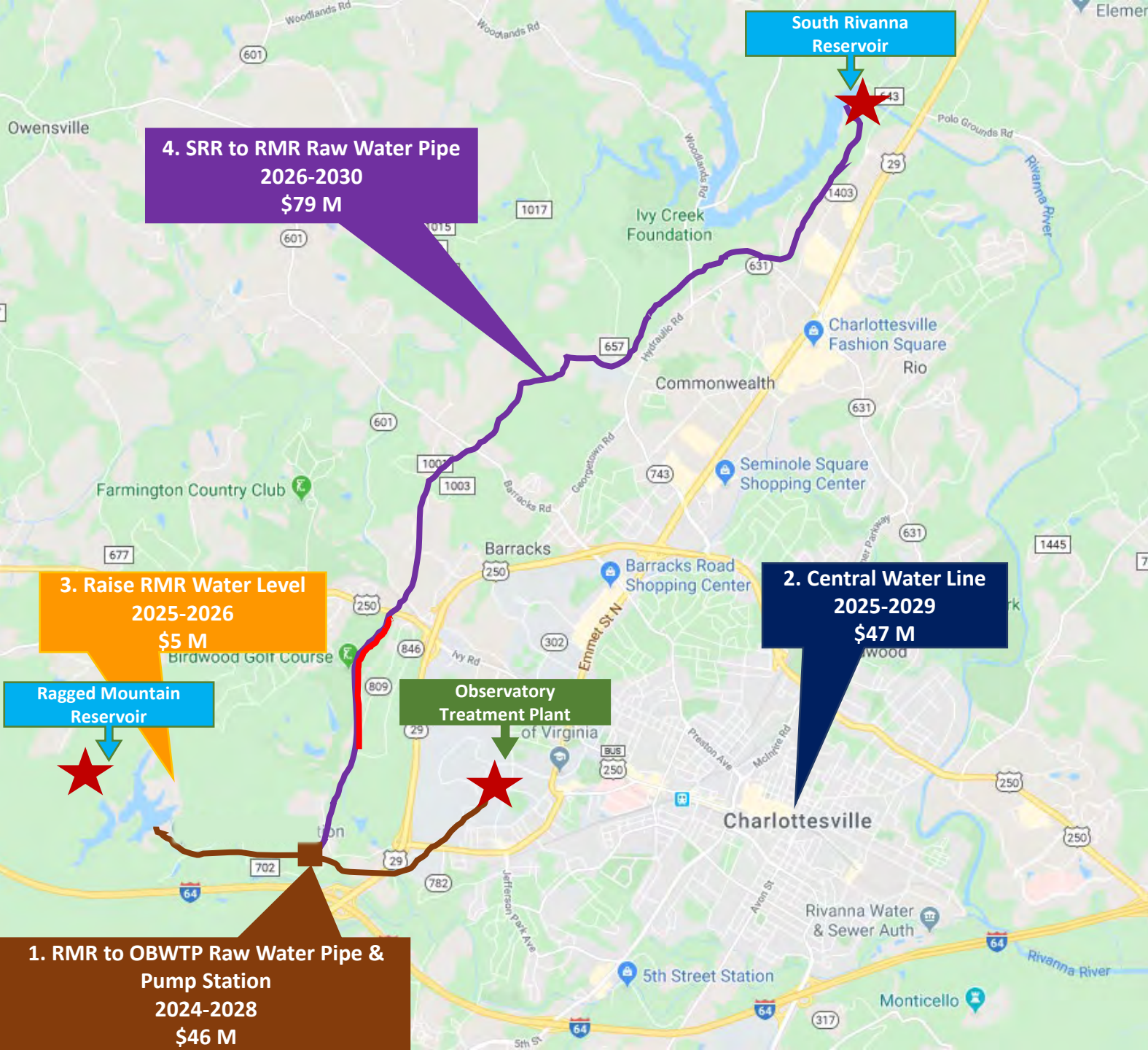
intake tower

Ragged Mountain Dam and Reservoir

Ragged Mtn Reservoir

- Raise Pool Level 12 feet = 700 MG
- 2025 – 2026
- Cost: \$5 M





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2026-2030

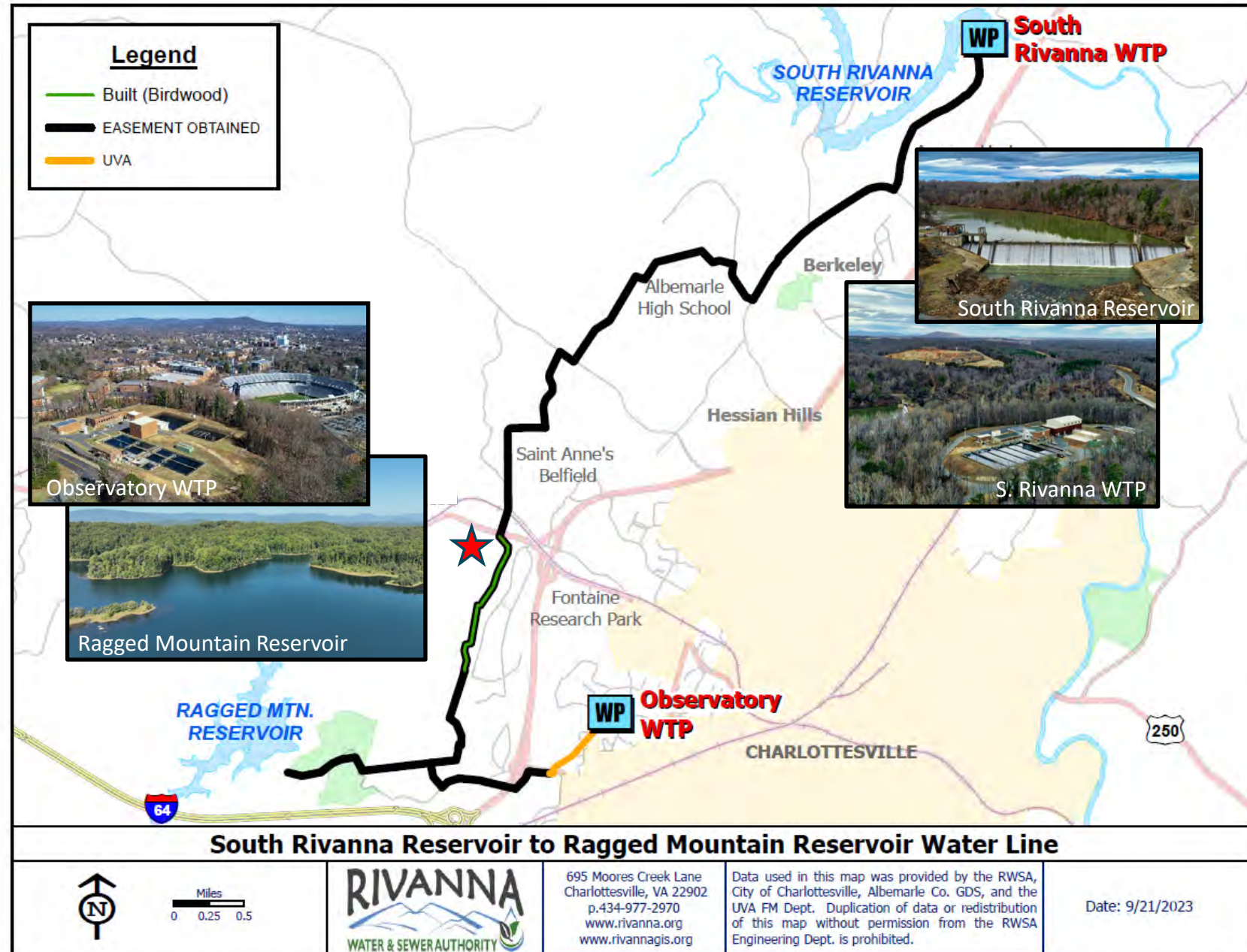
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ACSA \$118 M
City \$59 M

\$177 M

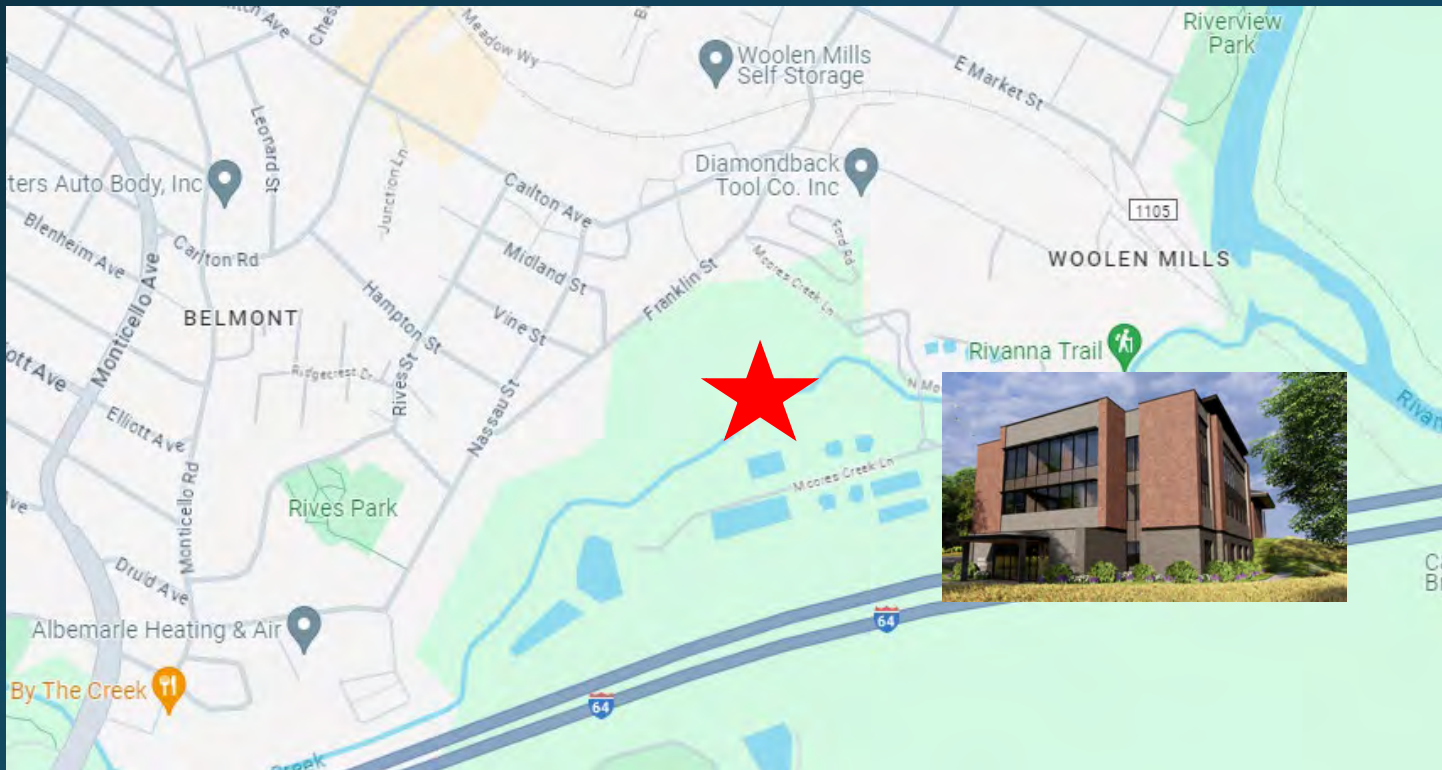
Rivanna Reservoir to Ragged Mtn Reservoir Intake, Pumping and Pipeline

- 7 miles of 36-in raw water piping from SRR to Birdwood
- 25 mgd transfer capacity
- Raw water pump station and intake on SRR
- Completion: 2026 – 2030
- Budget \$84 M
ACSA 80%, City 20%



Summary

Rivanna will construct 16 miles of large drinking water piping across our community from 2024 – 2030 costing about \$180 M.



Questions?

