

SHARED RESOURCES



Minnehaha Community Water Corp.
Big Sioux Community Water System



HOW IT BEGAN

Communication began with both systems looking at their long-term Capital Improvements. Recent drought conditions, population growth, and increased water demand impacted both systems. With a mutual need, limited water resource availability, and a similar goal for both systems, a joint venture was proposed. Both systems were already multi-interconnected and they recognized it would be more cost efficient to have one larger treatment plant constructed versus two smaller plants. This joint venture would also resolve the limited water resources if both systems were separate. From this, Shared Resources was established.

Planning for additional treated water sources began in 2021 with a facility plan for proposed improvements to both systems. The recommended improvements have been accepted by both systems and the SD State Water Plan and are now in the design stage.



WHY IT IS NEEDED

- Both systems are experiencing growing water demand due to drought conditions in recent years as well as population growth throughout the service areas.
- Both systems experienced new peak day usage in 2021.
- Due to limited capacity, both systems are currently unable to add all requested new service connections.
- Calculated demand projections expect water demands in both systems will exceed treatment capacity by 2025 if no improvements are made.

SHARED RESOURCES SYSTEM

- The new system that will serve both Big Sioux Community Water System (BSCWS) and Minnehaha Community Water Corporation (MCWC).
- The joint Shared Resources System has been incorporated in SD and officers have been appointed.
- The joint system includes an 8.0 MGD (Million Gallons per Day) groundwater treatment plant, a well field, one ground storage reservoir, one elevated storage reservoir, one booster pump station, and 14.8 miles of treated water pipeline.

These projects are currently in the design phase.

- The new plant will be located near Trent (Moody County). The site has already been purchased and water rights have been secured.

Why Moody Co?
Moody County has available water rights west of Trent near the Big Sioux River.

MCWC IMPROVEMENTS

- 35.8 miles of water distribution pipe: improvements throughout the system to allow MCWC to fully utilize additional water capacity.

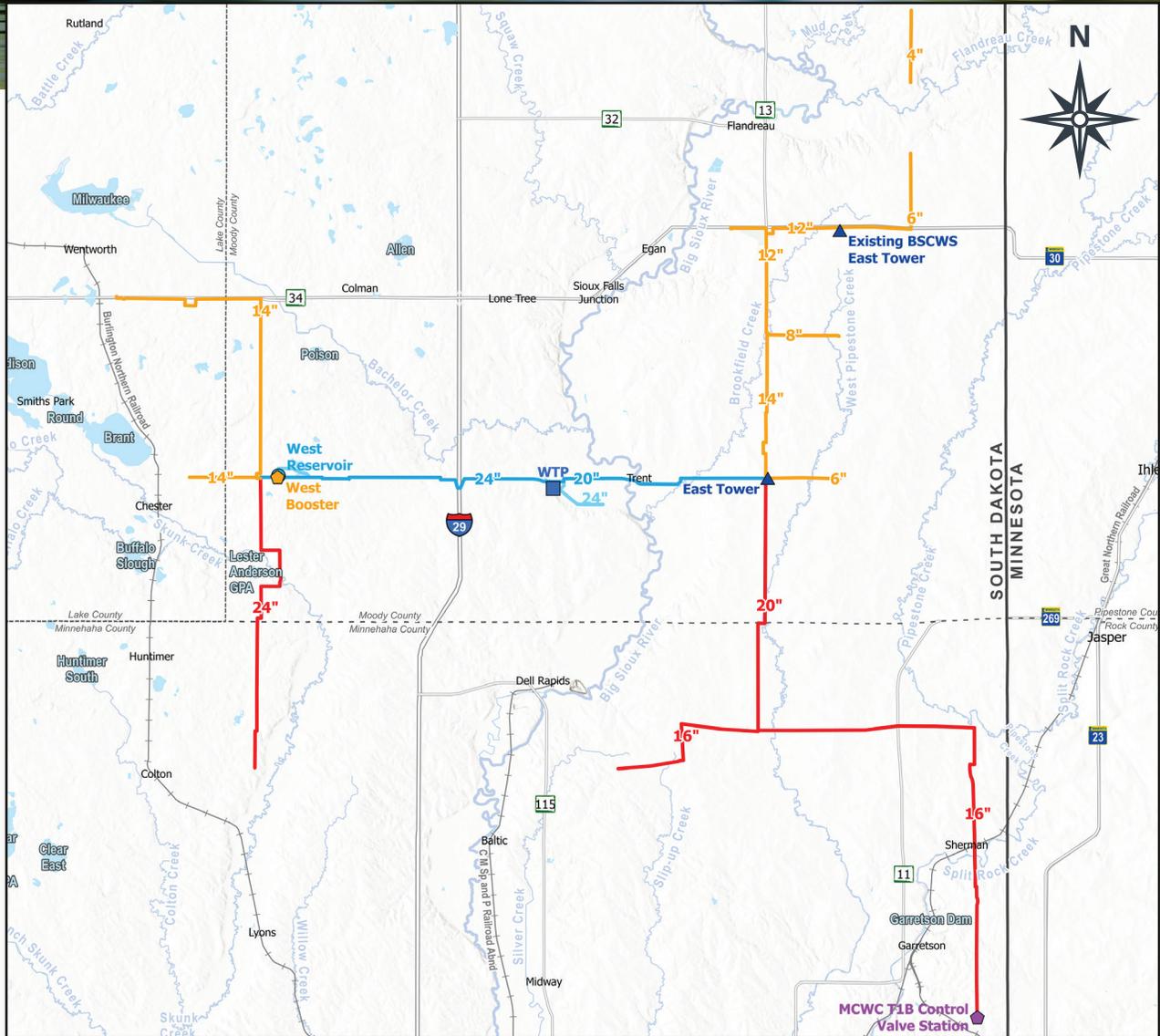
The design of these improvements will begin once the design of the Shared Resources System projects is completed.

BSCWS IMPROVEMENTS

- 32.1 miles of water distribution pipe: improvements throughout the system to allow BSCWS to fully utilize additional water capacity.

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PROJECT LOCATION

BSCWS & MCWC | Shared Resources
Minnehaha, Lake, and Moody Counties



LEGEND

- Railroad
- Highway
- River/Stream
- County Border
- State Boundary
- Lake
- Waterline Structure
 - WTP
 - West Booster
 - West Reservoir
 - MCWC T1B Control Valve Station
 - East Tower; Existing BSCWS East Tower
- Proposed Watermain
 - BSCWS Mainline
 - Joint Mainline
 - MCWC Mainline
 - Raw Waterline

