

Allis, Spaanem, & Shaffer Water Main

General Information

MUNIS No: 12999
Contract No.: 8290
Project Engineer: Pete Holmgren
Project Alder: Grant Foster (AD 15)
Project Limits: Allis Avenue, from Turner Avenue to Shaffer Avenue; Spaanem Avenue, at the Allis Avenue intersection; and Shaffer Avenue, from Allis Avenue to Buckeye Road

Utilities

Madison Water Utility (MWU) is proposing a water main installation project to allow for additional flow between pressure zones 4 and 6. New 12-inch water main will be installed on the blocks of Allis Avenue and Shaffer Avenue that surround Unit Well 9 (4724 Spaanem Avenue), and a new connection will also be made directly to that facility. The existing water main infrastructure on Spaanem Avenue will also be connected to the new water main from this project.

The objective of the project is to allow for an adjustment of the existing boundary between pressure zones 4 and 6, and to enable Unit Well 9 to serve both pressure zones; currently it serves only zone 4. Due to recent PFAS concerns, Well 15 in zone 6 is offline indefinitely and has left zone 6 more vulnerable to water supply issues. Completion of this project would allow MWU to move surplus water from zone 4 as needed to better ensure water reliability. The work to convert Well 9 for this capability is underway this year, so completing the pipeline work this year as well would allow MWU to more immediately enhance the water system capabilities and reduce the supply risks in zone 6.

There is some project boundary overlap with the proposed street work on Allis Avenue scheduled for 2021, however More than half of this project's limits would not overlap with next year's work, and for the work on Allis Avenue the intent is to limit roadway work to only the pipeline trench itself, which would then be patched until the full reconstruction next year. Water main work completed this year would also reduce the overall construction time on next year's project.

Street

Pipeline trenches will be patched with asphalt to match the existing grade, geometry, and surface level.

Water System Impacts

Residents on Spaanem Avenue and Shaffer Avenue are expected to generally see a water pressure increase from the low-40 PSI range to the mid-50 PSI range.

Residents within the project limits will be notified in advance of temporary water outages during construction. MWU anticipates an average of two outages per resident, lasting an average of 4 hours per instance.

Costs:

Total Cost: \$ 550,000
Assessments: \$ 0
Water: \$ 480,000 (including street restore)
Engineering: \$ 70,000
City Cost: \$ 550,000

Schedule:

Advertise for Fids: June 2020
Construction Start: September 2020
Construction End: October 2020

- NEW 12-IN WATER MAIN
- EXISTING WATER MAIN
- GENERAL PROJECT BOUNDARY

PROJECT OVERVIEW EXHIBIT

ALLIS, SPAANEM, & SHAFFER AVENUE WATER MAIN

PROJECT NO. 12999

CONTRACT NO. 8290

