

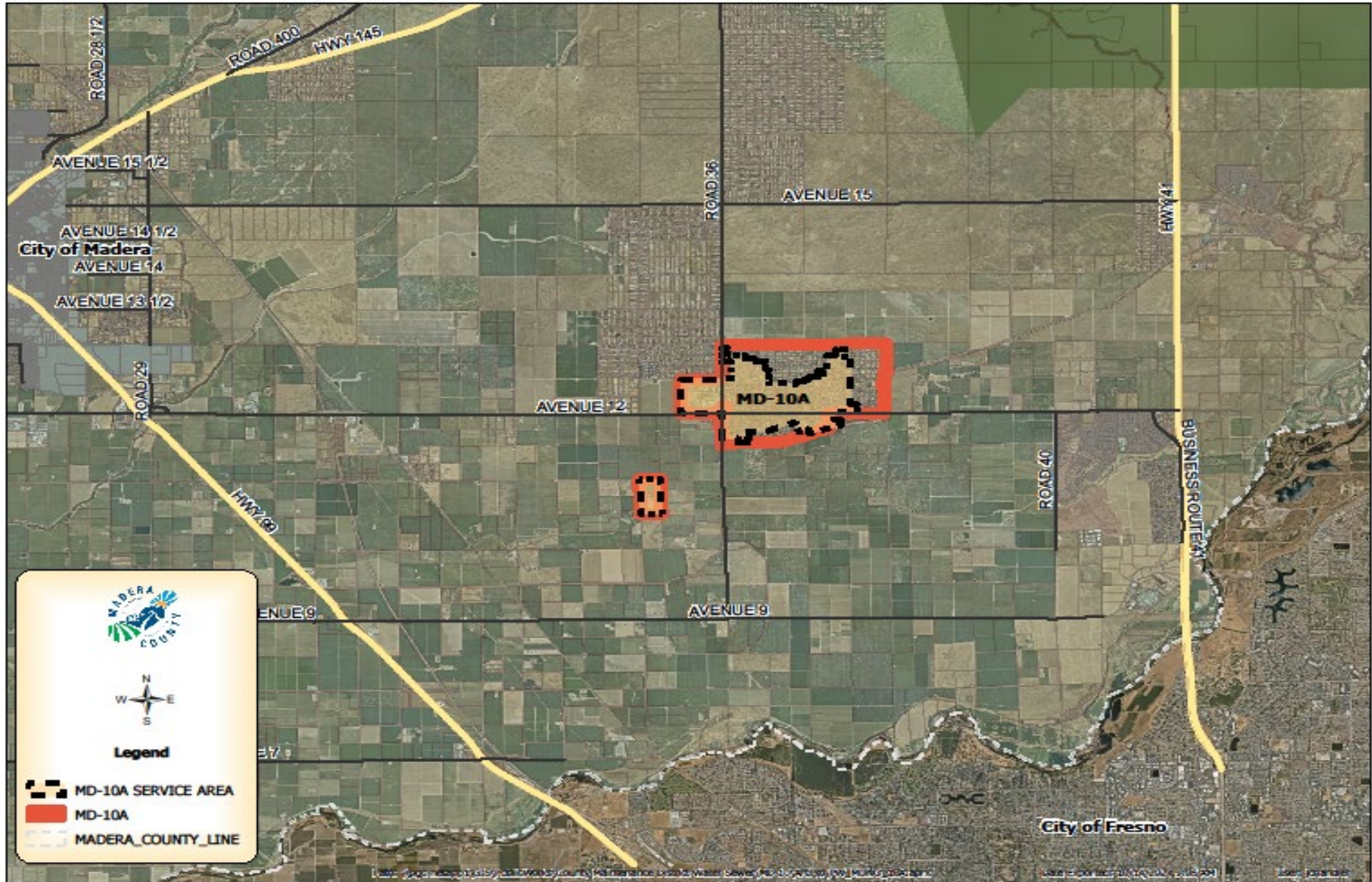
Madera Ranchos MD-10A

Water System Improvements

October 15, 2024

Item 6.m DOC ID 11184



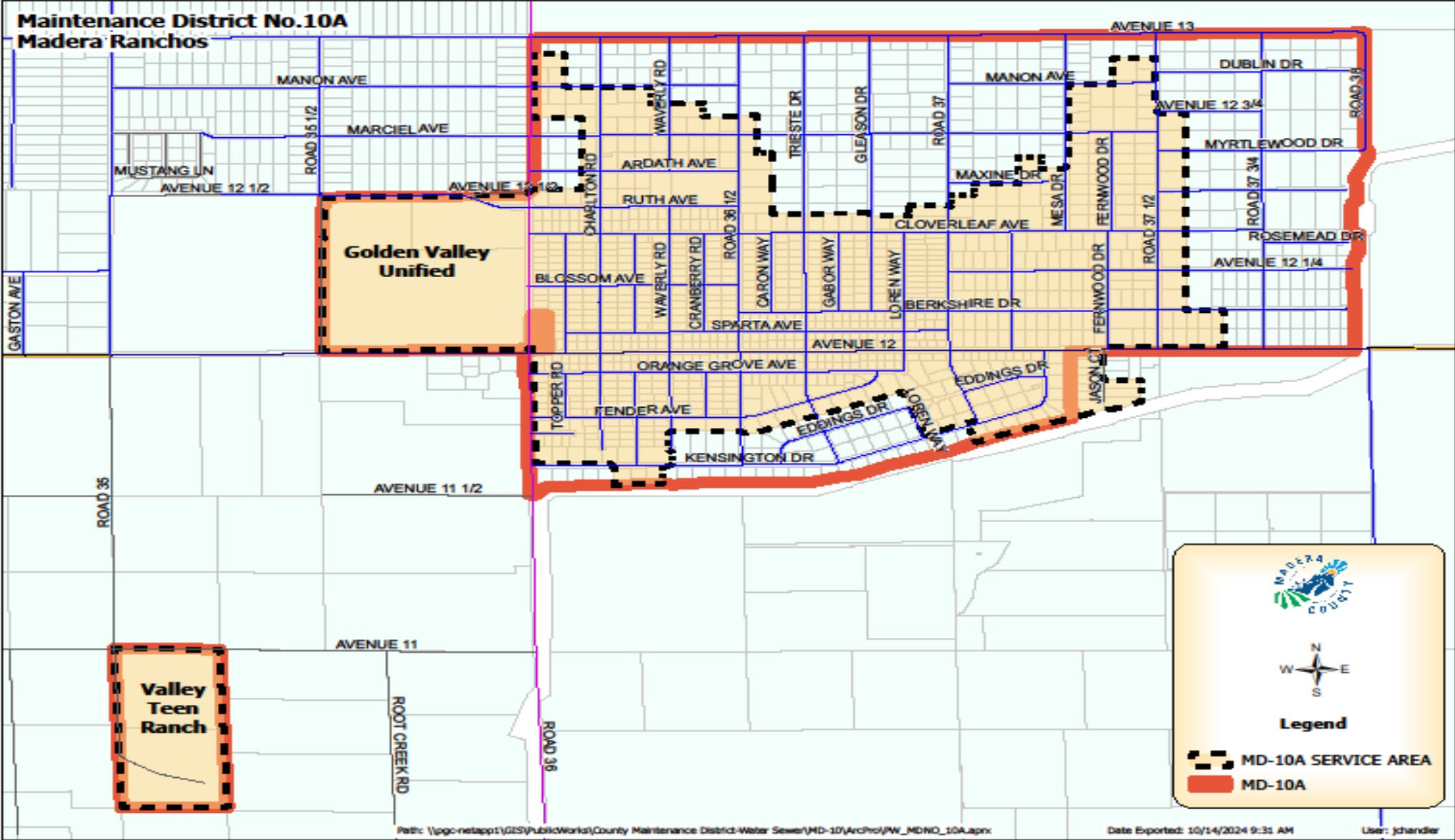




MD-10 History

- › MD-10A water system was created in 1964
- › MD-10A was accepted by Madera County in 1995
 - State of California requested the County to accept the operations and maintenance of MD 10A due to the lack of maintenance and ongoing compliance issues under private water operator
 - Water infrastructure improvements were never built to serve the entire district boundaries
- › There are currently 948 residential and 30 commercial connections served water by MD-10A
- › There are currently 329 residential and 2 commercial parcels that are not served water by MD-10A
- › Currently four (4) active wells producing approximately 2,900 gpm
 - Kensington well (5th well) currently offline pending treatment plant completion

MD-10 A District Boundary





2022 Well Rehabs

- › Charlton Well
 - Previously offline for more than two years
 - Chemical scrub, cleaned screens, repaired breaks in casing, changed from submersible to vertical turbine pump
 - Currently producing 80-100 gpm
- › New Fender Well
 - Previously pump 600 gpm
 - Chemical scrub, cleaned screens, changed from submersible to vertical turbine pump
 - Currently producing 1000 gpm
- › The project was grant funded by the Department of Water Resources as part of the Small Community Drought Relief Program for \$320,000
- › Both Wells were completed in 2022

Charlton and New Fender Wells

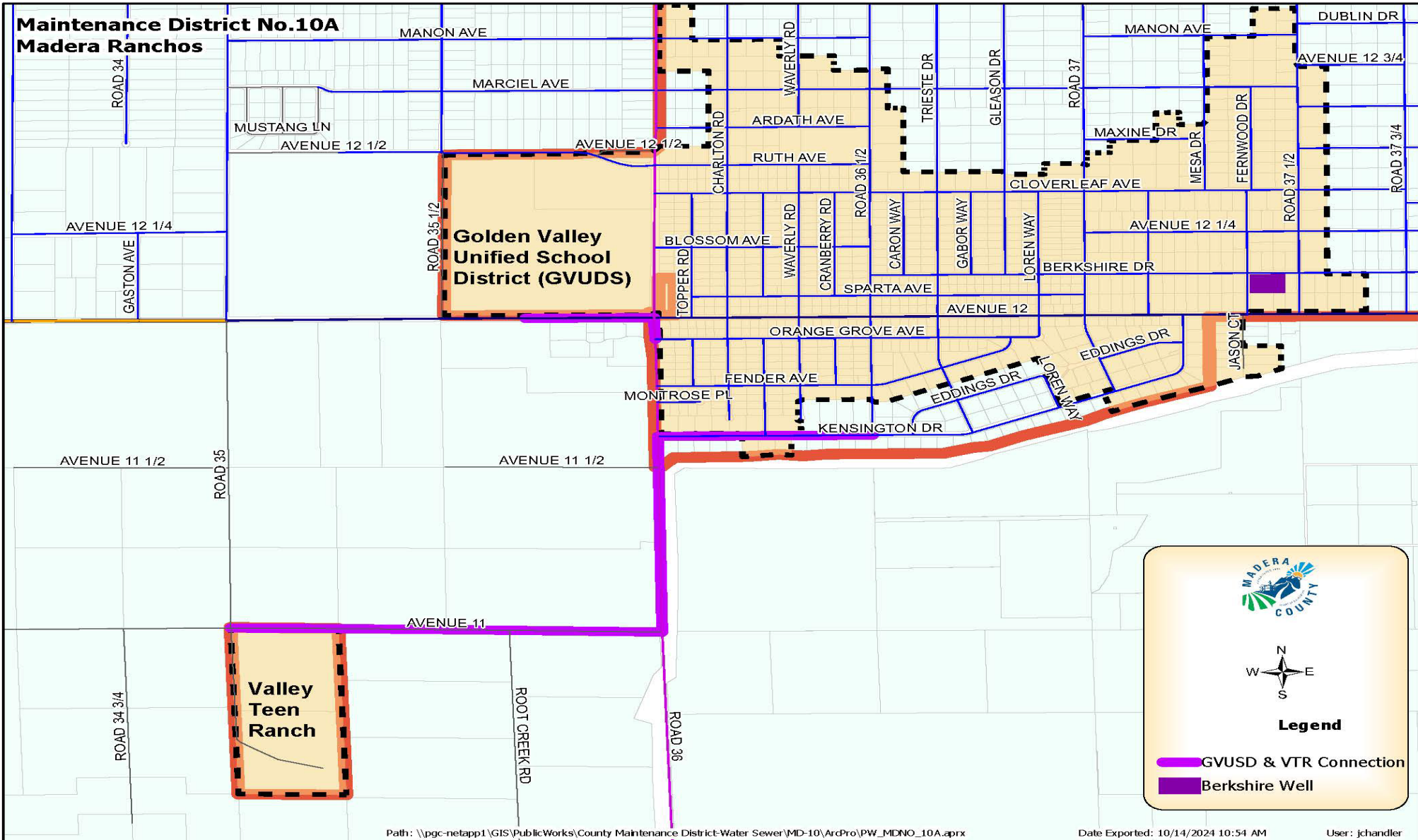




Consolidation of GVUSD and VTR

- › State Division of Drinking Water approached the County to consolidate both GVUSD and VTR with MD-10A
- › State Water Department of Financial Assistance provided Planning and Construction Grant funding for this project \$6,449,453
- › The project included 16,300 lineal feet (3 miles) of pipeline and a new well at the Berkshire site producing up to 1000 gpm
- › Well and pipeline completed towards the end of 2023

Consolidation



Berkshire Well Site

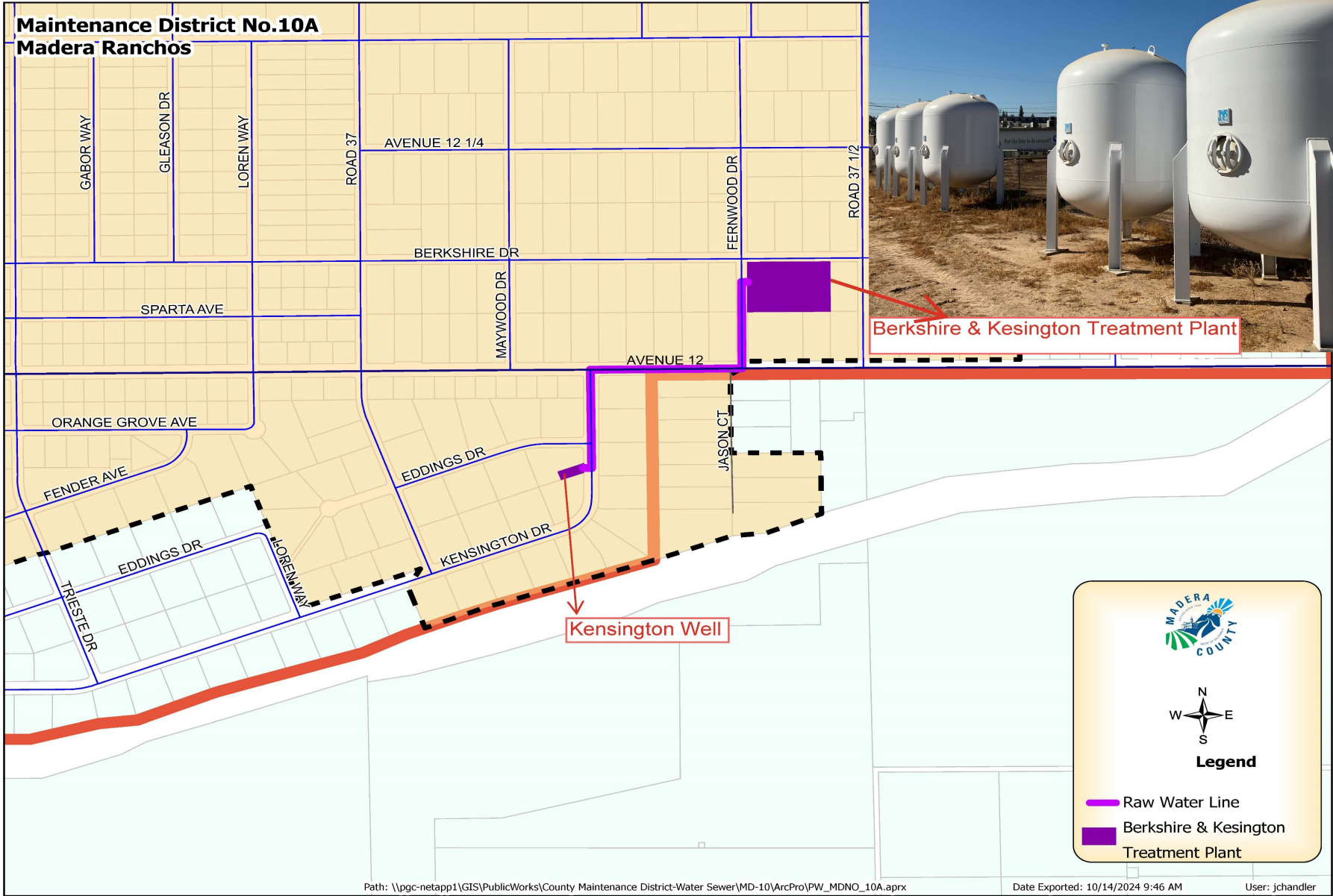




Water treatment plant at Berkshire Well Site

- › A 1600 gpm Water Treatment plant project at the Berkshire well site
- › State Water Department of Financial Assistance provided Planning and Construction Grant funding for the project \$11,445,485.
- › The Treatment plant will treat water from both the Kensington well and the Berkshire well for Manganese
- › Target completion in second quarter 2025

Berkshire Well and Treatment Plant





Dublin Water Storage Tank

- › One Million Gallon Water Storage Tank project construction was started in 2023
- › State Water Department of Financial Assistance provided Planning and Construction Grant funding for \$ 4,532,933.
- › The Tank was built on the Dublin Well Site as originally planned
- › The project is scheduled to complete in first quarter 2025

Dublin One Million Gallon Storage Tank

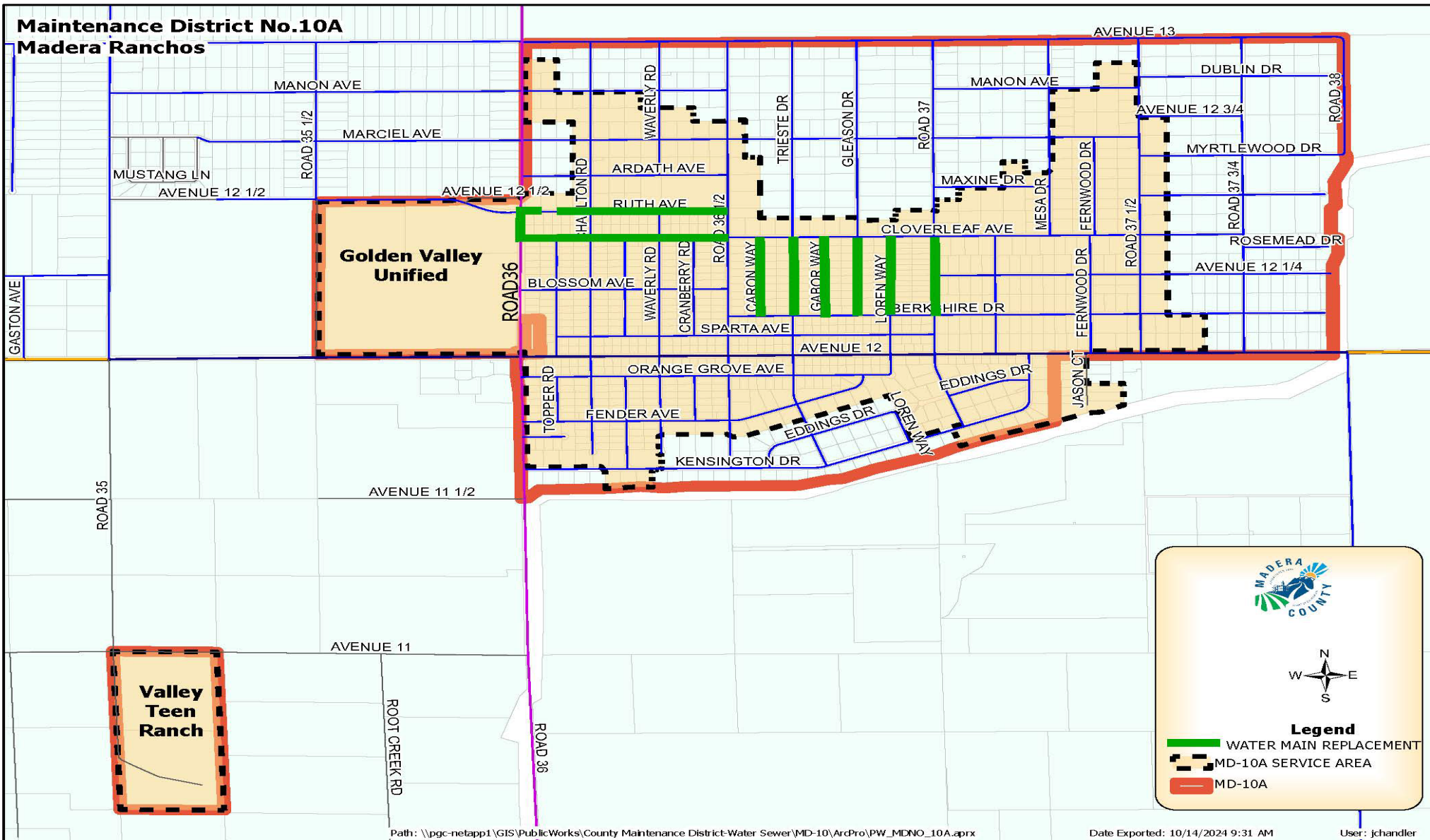




Water Main Replacement Phase 1

- › The proposed construction award contract project Phase 1 will start November of 2024
- › The project Construction is funded with ARPA funds (\$3,698,912) and contribution from MD-10A district funds for a total of \$4,472,424.
- › Project to install 13,084 lineal feet of pipe (2.47 miles) to replace existing pipeline and move into the road right of way.
- › The project is scheduled to complete in July 2025

Street locations for phase 1 project



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Future Improvements

- › The plan is to continue the water main replacement project in MD-10A in additional Phases to install 72,631 lineal feet (13.76 miles) of pipe
- › The plan is also to install 60,860 lineal feet (11.53 miles) of pipe to extend the water mains within the district boundary to allow connections for the 331 unserved parcels
- › The ultimate project is also anticipated to include water meters for each connection within the District Boundary
- › Future well site parcel acquisition completed within service area boundaries
- › Additional \$35.5M in pending federal funding requests for pipeline replacement and water meters
- › Future state funding from Division of Financial Assistance is unknown at this time.



Staff Recommendations

- › Approve the award of contract to Rolfe Construction in the amount of \$3,577,939.00
- › Authorize the Chief of Development Services to issue the Notice to Proceed
- › Authorize the Auditor-Controller to issue payments for contingencies up to 10% of the contract award
- › Authorize the Chief of Development Services to issue Contract Changes Orders not to exceed the authorized contingency amount