

# Replacement of Waterline Under The Colorado River at US183 South PID 3212.194



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# Agenda

- Overall Project Summary
- Why the Waterline is Necessary and Why Here?
- No Surface or Tree Impacts
- Waterline (WL) Easements North and South of the Colorado River
- Summary of Requested Easements

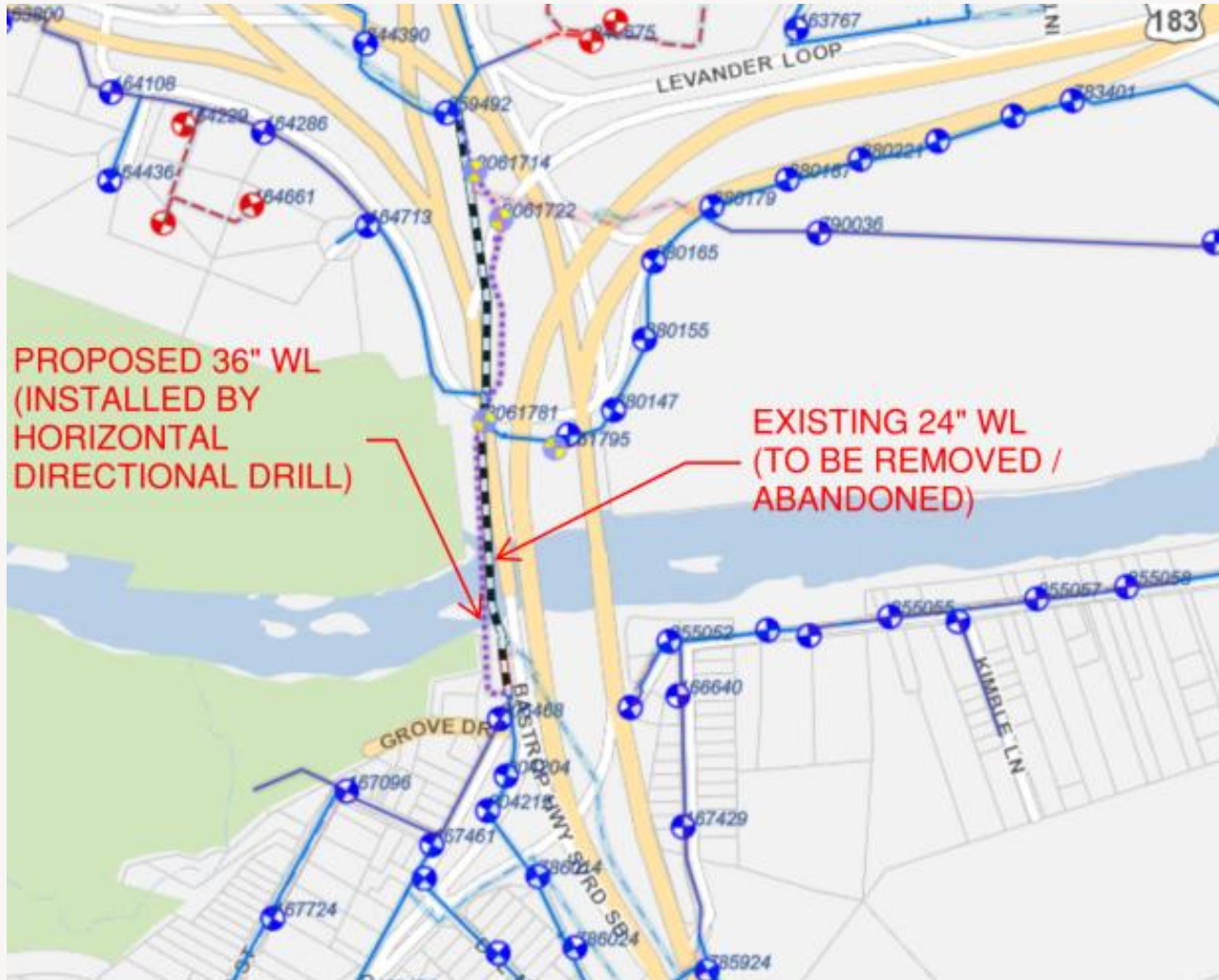


# Overall Project Summary

- The objective of this project is to ensure Austin Water customers have a reliable water system by replacing the existing waterline that is aging and exposed in the Colorado River
- Originally part of a Central Texas Regional Mobility Authority (CTRMA) project that required the existing waterline to be relocated but was separated due to transportation improvements being delayed.
- Proposed Water Easements within parkland
  - 270 LF of 36” W by Bore (HDD) south of Colorado River
  - 145 LF of 36” W by Bore (HDD) north of Colorado River



# Proposed Colorado River Crossing



## Why the Waterline is Necessary and Why Here?

- Crossing is critical to the water system
- Existing line is 74 years old and exposed in the river
- Alternate options evaluated:
  - Hanging from bridge
    - Bridge not designed to carry the waterline
    - Bridge is over 20' above grade at northern tie-in point
  - Move to the other side of the existing line
    - Conflicts with existing bridge
  - Move to the other side of the bridge or between 183 bridges
    - Does not maintain looping for the system or would require additional TxDOT crossings and additional pipe to loop

# No Surface or Tree Impacts to APR Property

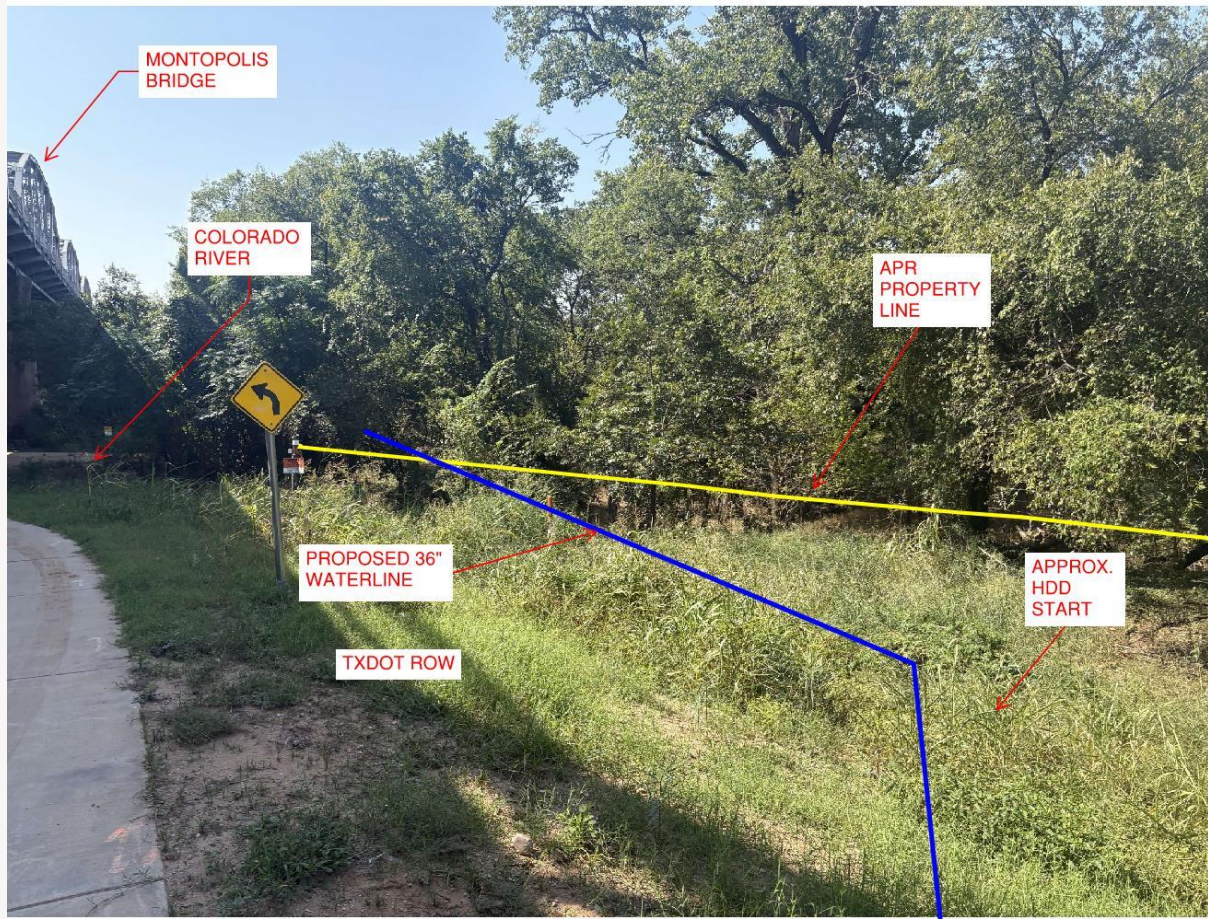
Waterline will be bored with Horizontal Directional Drilling (HDD)



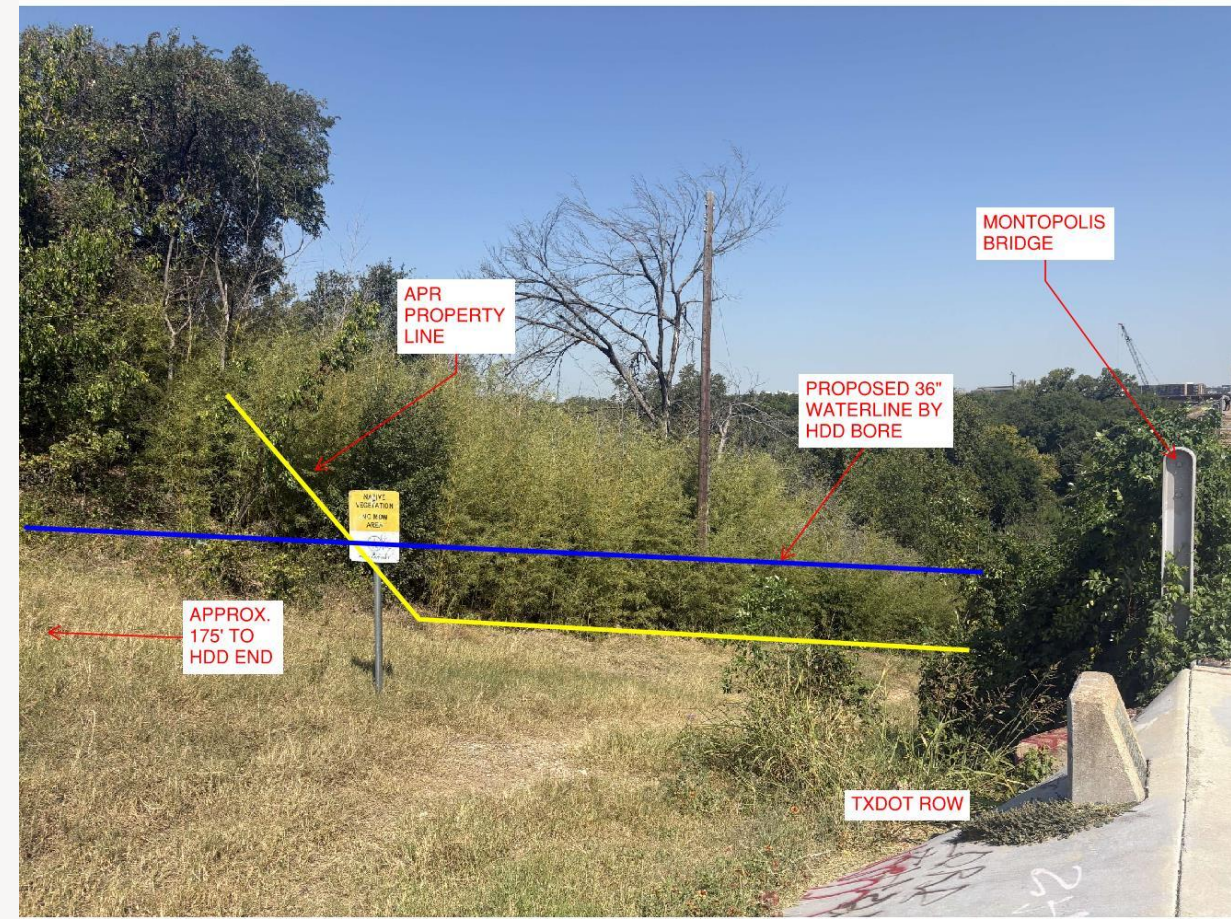
Horizontal Directional Drilling (HDD) is a construction technique whereby a tunnel is drilled under a waterway or other designated area, and a pipeline or other utility is pulled through the drilled underground tunnel.



# Proposed Colorado River Crossing



Looking south from the northern bank



Looking north from the southern bank





# Summary of Requested Easements

- 4,155 square feet north of the Colorado River
- 2,172 square feet south of the Colorado River

Easements will NOT have surface impacts or tree impacts within APR property, and no temporary use is needed due to HDD.



# Chapter 26 of the Parks and Wildlife Code (PWC) Due Diligence for Utility Assignment

## Section 26.001

A department may not approve any project that requires the use of any public land designated as a park unless the department, acting through its duly authorized governing body or officer, determines that:

- There is no feasible and prudent alternative to the use of or taking of such land – CONFIRMED
- The program or project includes all reasonable planning to minimize harm to the land, as a park, recreation area, scientific area, wildlife refuge, or historic site, resulting from the use or taking – CONFIRMED

AW makes a recommendation to City Council for approval of Permanent Water Use on parkland located near 183 and the Colorado River in the Colorado River Park Wildlife Sanctuary and the Roy G. Guerrero Colorado River Metro Park. Total Mitigation to be paid by Austin Water is \$37,651.





# PROJECT CONTACTS

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# Questions?