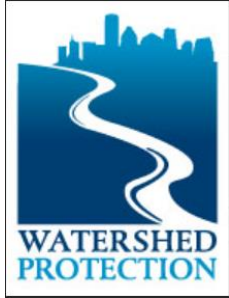


# [ Old Lampasas Dam ]

TX07295

PARD Board  
January 22, 2024

# Introductions



Project Sponsor & Team:  
Marie Lancaster, E.I.T.  
Henry Price, P.E.



Project Manager:  
Minda Sarmiento, P.E.

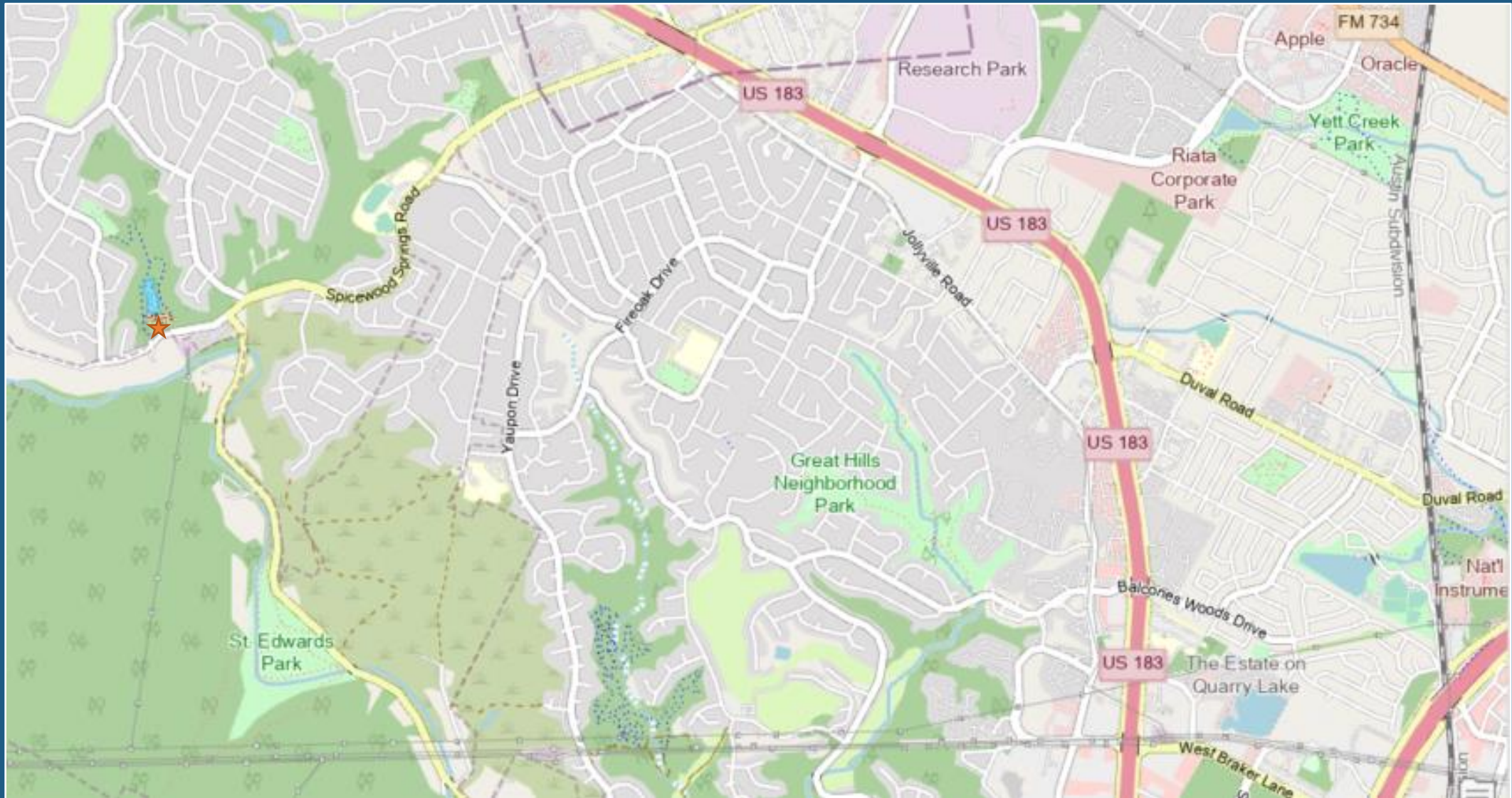


Project Consultants:  
Kim Patak, P.E.  
Will Huff, P.E.

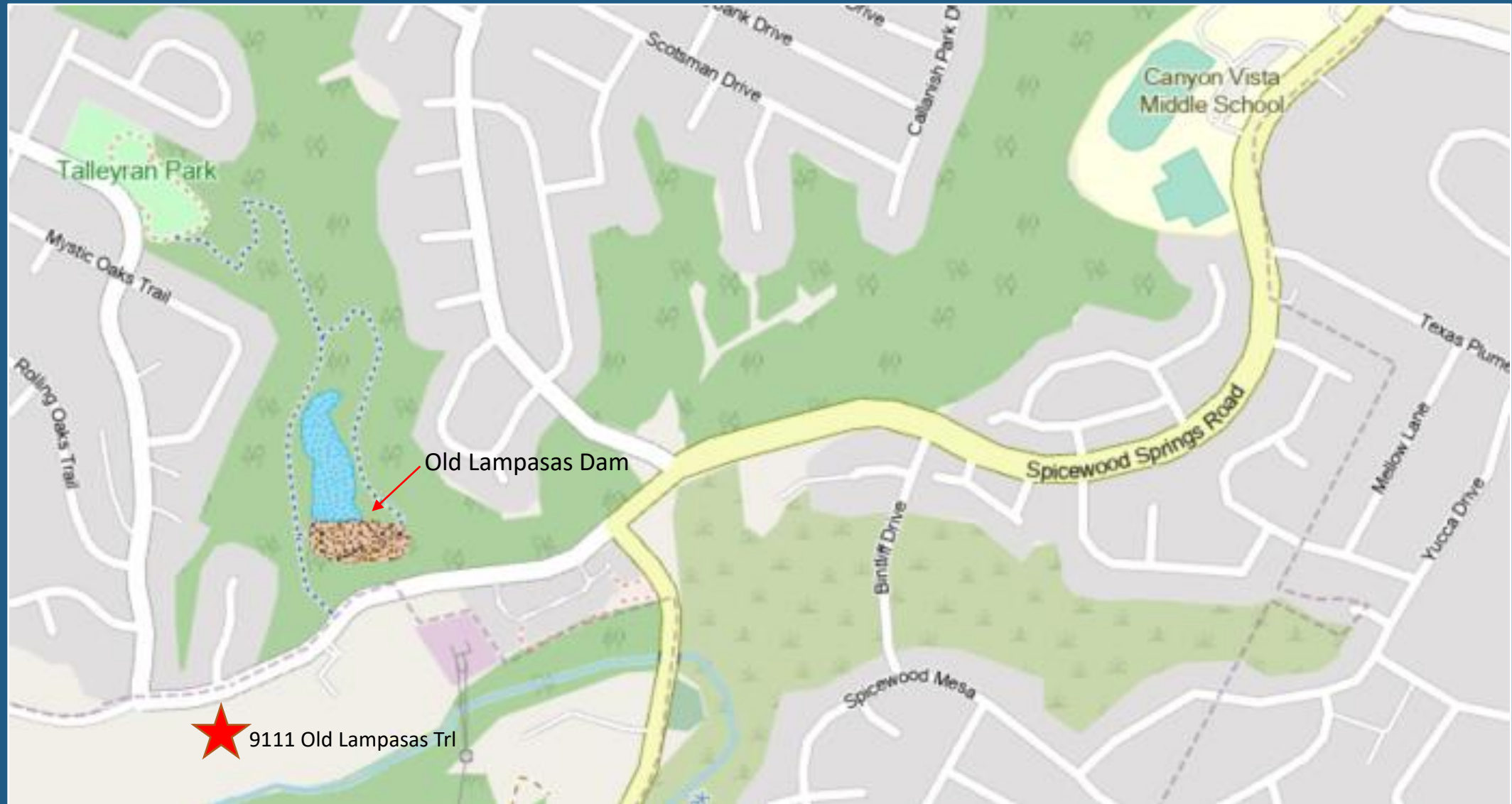
*“Watershed Protection protects lives, property and the environment of our community by reducing the impact of flood, erosion and water pollution.”*



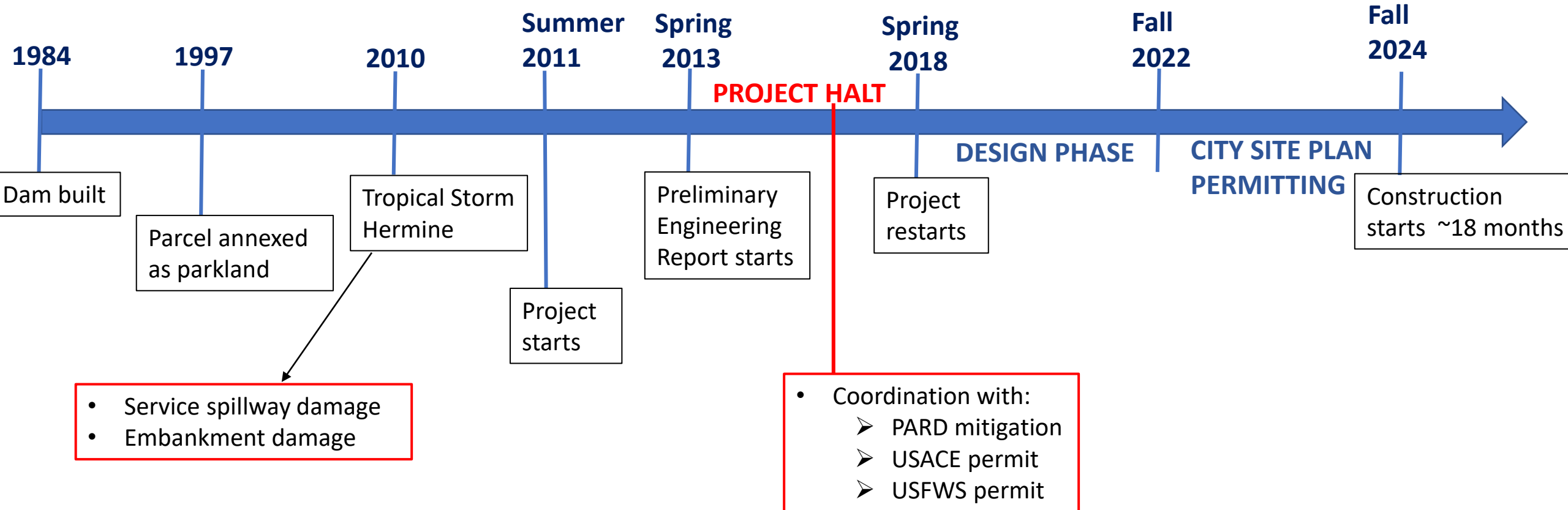
# Project Location



# Project Location



# Project History





# TCEQ Dam Safety Program

- Texas Administrative Code Title 30, Part 1, Chapter 299: Dams and Reservoirs
  - Old Lampasas is a high hazard dam
  - Recent TCEQ inspections – Poor condition
    - severe deterioration of the service spillway pipe
    - holes on the slopes and dense overgrowth of trees and brush on the embankment
    - does not safely pass 75% of the Probable Maximum Flood (PMF)









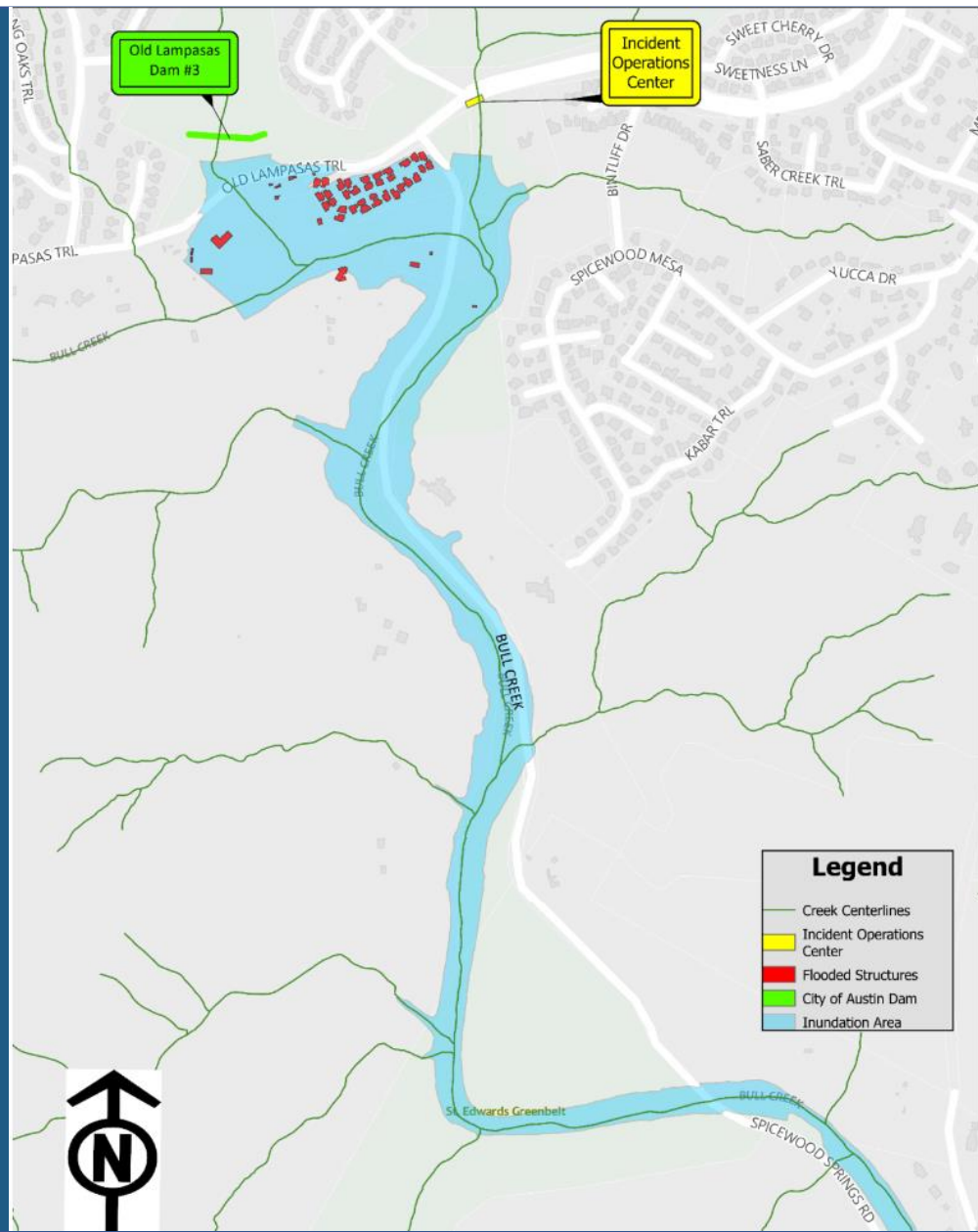


Holes on slope



Erosion on slope





# Inundation Map

- Over 30 structures at risk of flooding
- 2 roads at risk of flooding
- 6 low water crossings at risk of flooding



## Project Scope

- Replace damaged, existing principal spillway with new 42-inch diameter pipe
- Replacement of the existing wastewater line through the embankment of the dam
- Removal of existing trees and boulders on dam footprint
- Installation of a new Flood Early Warning System instrumentation





# Project Scope

- Armoring of the existing plunge pool to reduce future erosion impacts
- Construction of a new auxiliary spillway
- New maintenance drive to give the City access to maintain the dam
- Raise and reinforce dam structure to contain the worst case scenario flood and meet City and State Dam Safety criteria





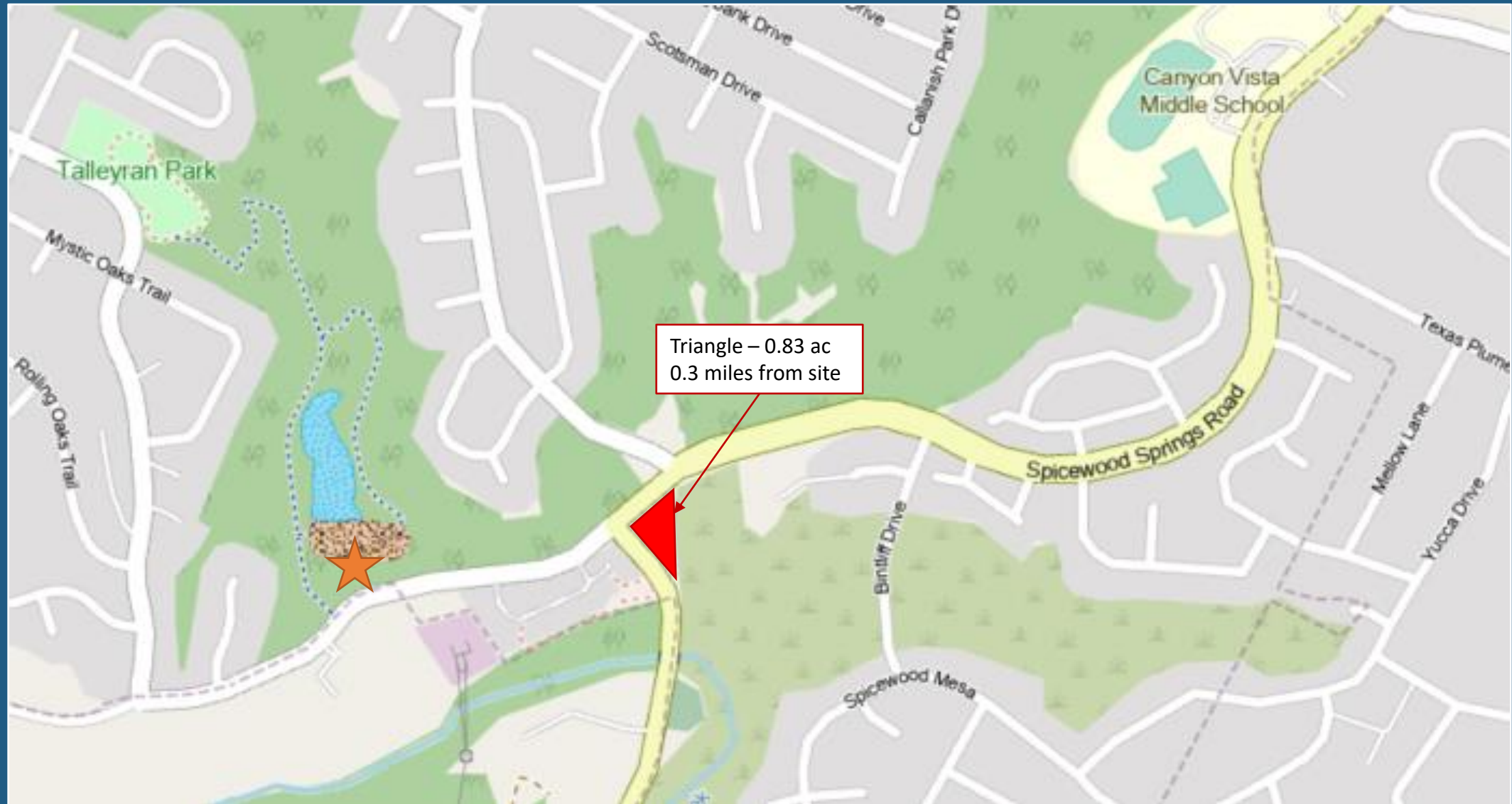
# Project Scope



- Propose new outflow structure that provides extended detention for additional water quality benefits
- Improve habitat for Jollyville Plateau Salamander
- Estimated construction cost \$12.8M

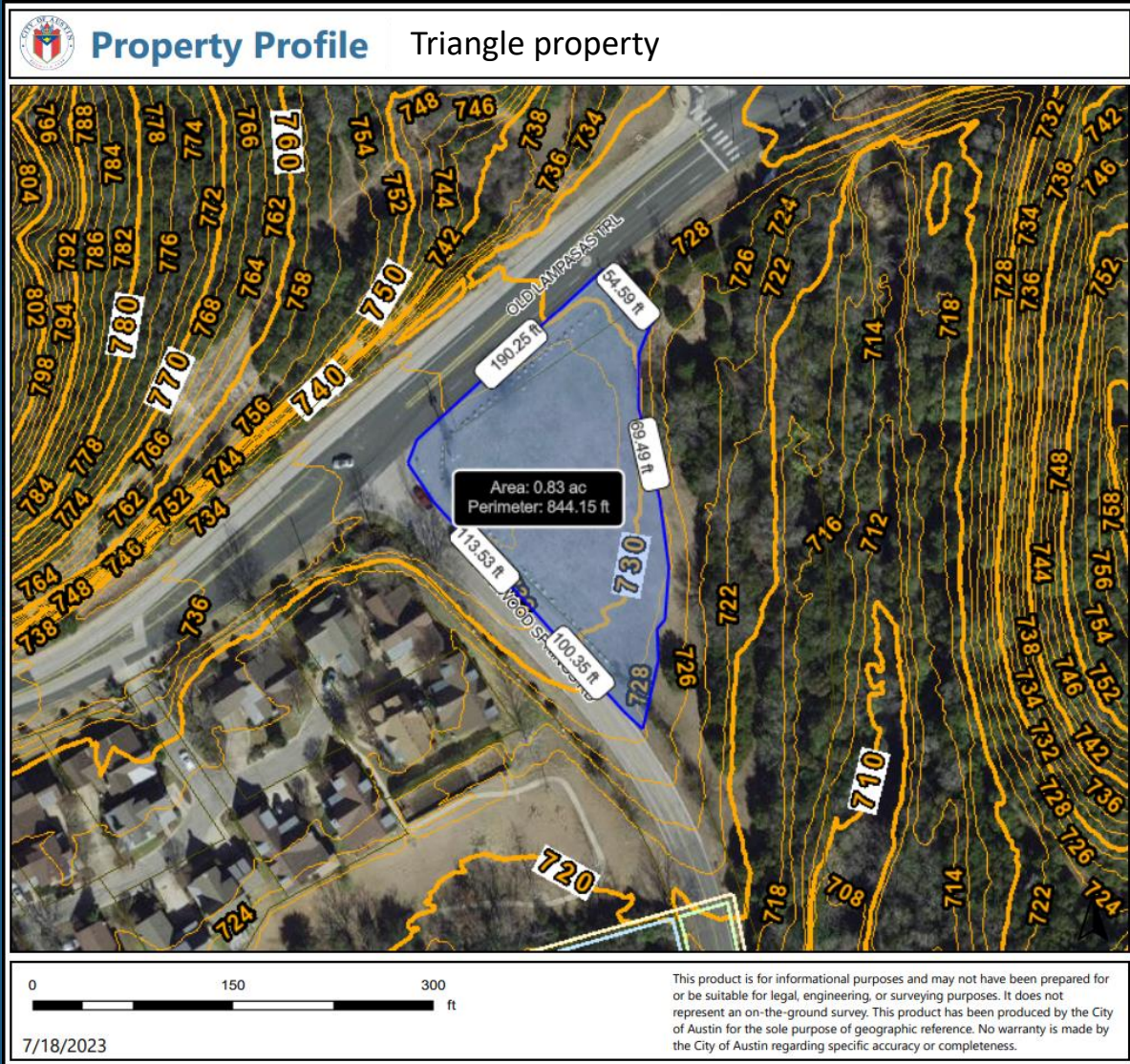


# Staging Area Location





# Staging Area



- This land and the project site are PARD properties
- Closest to project site
- Will be used for ~18 months
- Will be used to store equipment and materials



# Project Recap

- Fix severe deterioration of Old Lampasas Dam
- Meet City and State Dam safety criteria
- Provide additional water quality
- Enhance threatened and endangered species habitat





## WPD Request

- Make a recommendation to City Council for approval of Temporary Use of parkland located at 8020 Spicewood Springs Rd – The Triangle not to exceed 540 Days.
- Total Mitigation is \$226,500 will be covered through:
  - Improvement of parkland
  - Reuse of materials (trees, boulders)



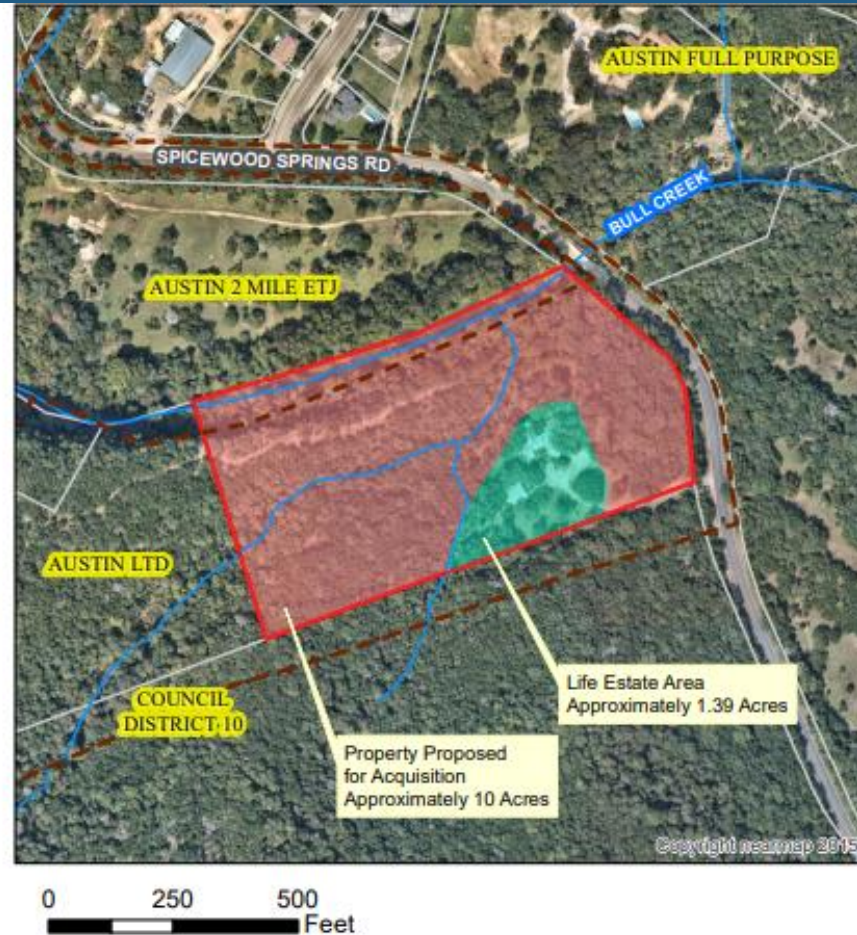
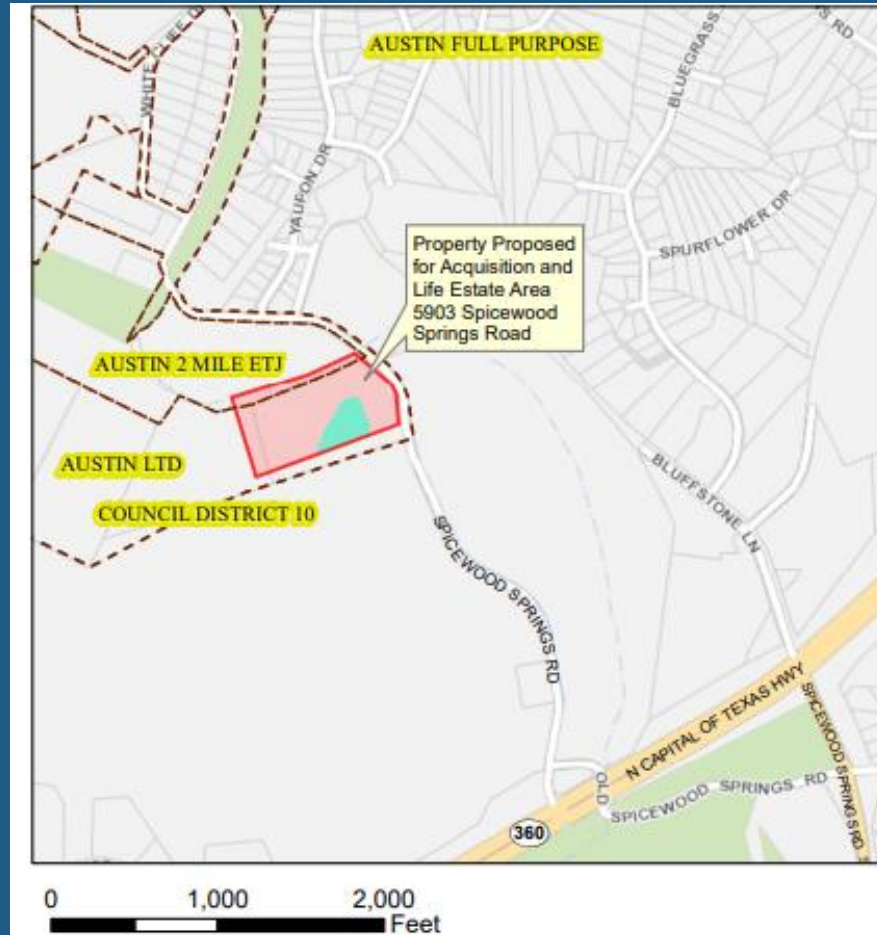


**Questions?**

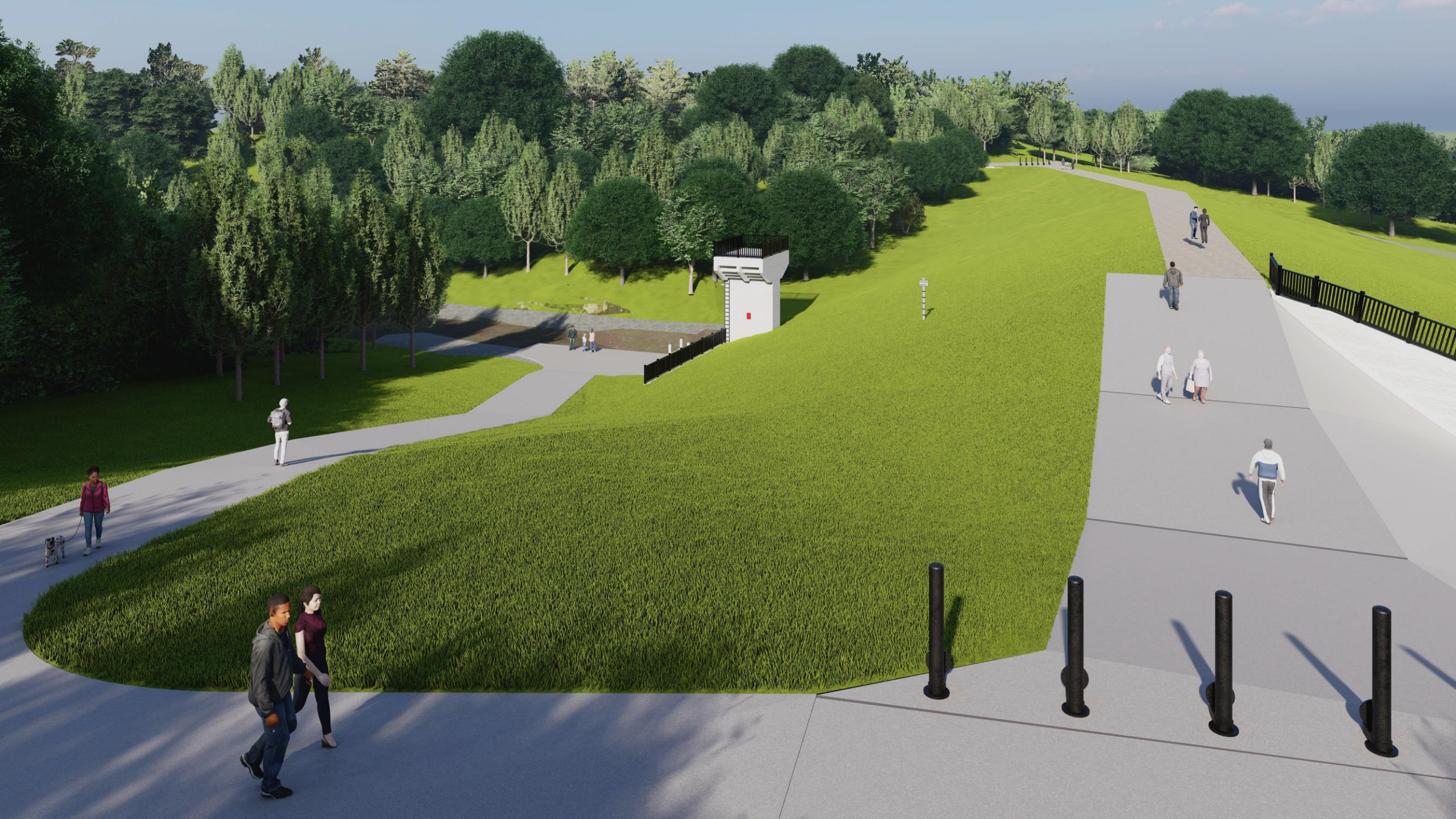


# Tree Mitigation

- Project partnered with PARD to acquire property located at 5903 Spicewood Springs





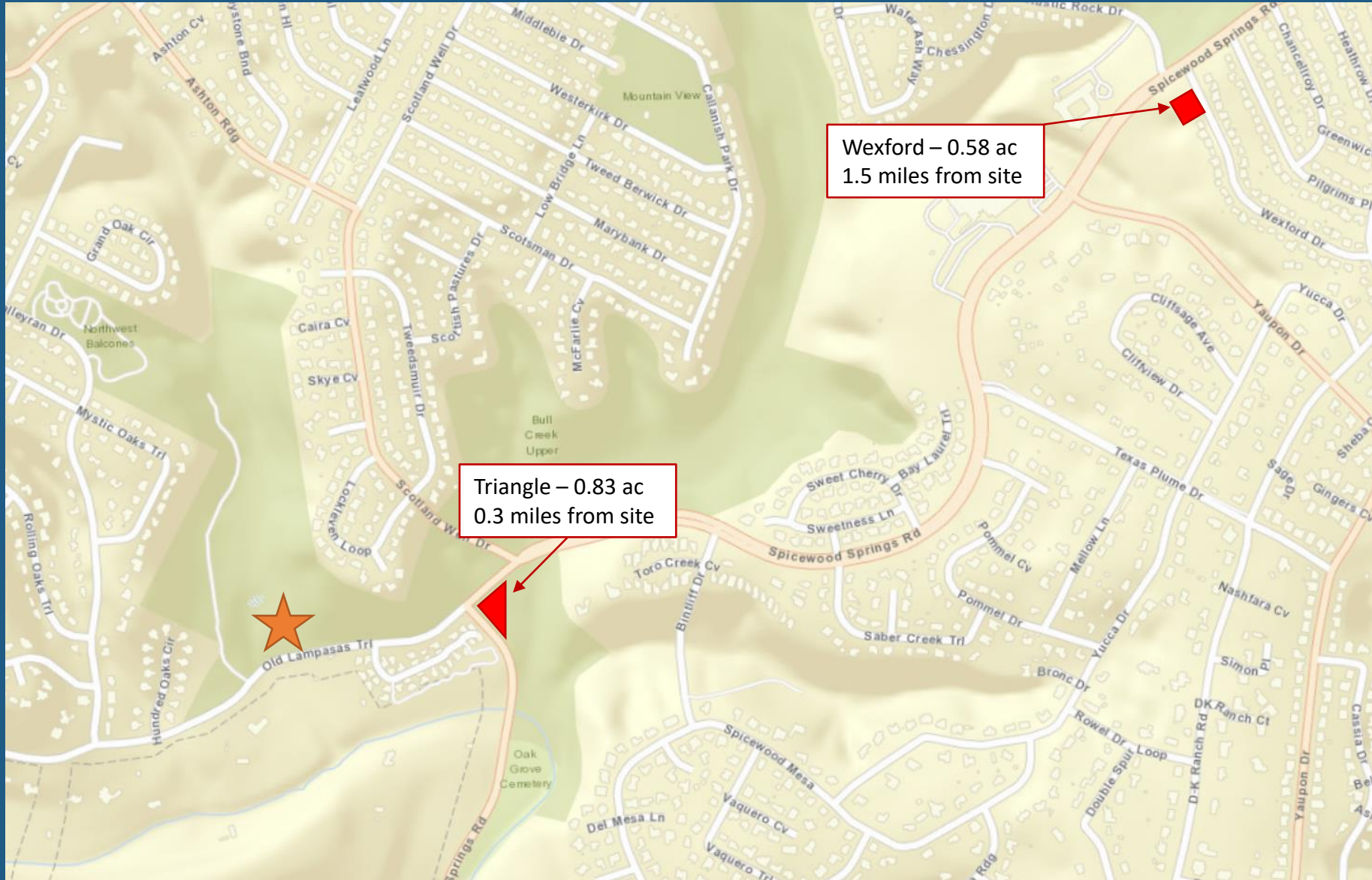








# Other Staging Areas Location





# COA LDC Variances

- LDC 25-8-261 – Development within the Critical Water Quality Zone
- LDC 25-8-301 – Construction of a roadway or driveway on slopes greater than 15%
- LDC 25-8-341 – Cut greater than 4'
- LDC 25-8-342 – Fill greater than 4'



09/10/2010 09:54





# Possible Construction Impacts

- Trail closures (detours)
- Truck staging and traffic (no closure)
- Boulder and tree removal
- Material and equipment staging areas





## Next Steps

- Obtain City Permit
- Advertise for Bid/Award
- Conduct Meet the Contractor Meeting
- Start Construction
- Construction length: ~18 months

