

Slaughter Creek Watershed

# Vassal Dr. Flood Risk Reduction Project

Project Sponsor: Kristina McLaren

CIP ID: 5789.136

August 23<sup>rd</sup>, 2023

CITY OF AUSTIN

WATERSHED PROTECTION DEPARTMENT



# Project Team

## Watershed Protection Department

- Kristina McLaren, PE, CFM, ENV SP
- Rupali Sabnis, PE, CFM
- Joan Esquivel

## Capital Delivery Services

- Shobana Angia, PMP

## Watershed Solutions JV

- Travis Wilson, PE, CFM
- Ricardo Yruegas, EIT



# Outline

1. Local Flooding Overview
2. Project Introduction
3. Project Flooding Impacts
4. Next Steps & Timeline
5. Available Resources
6. Q&A





← **Localized Flooding**  
Occurs away from creeks

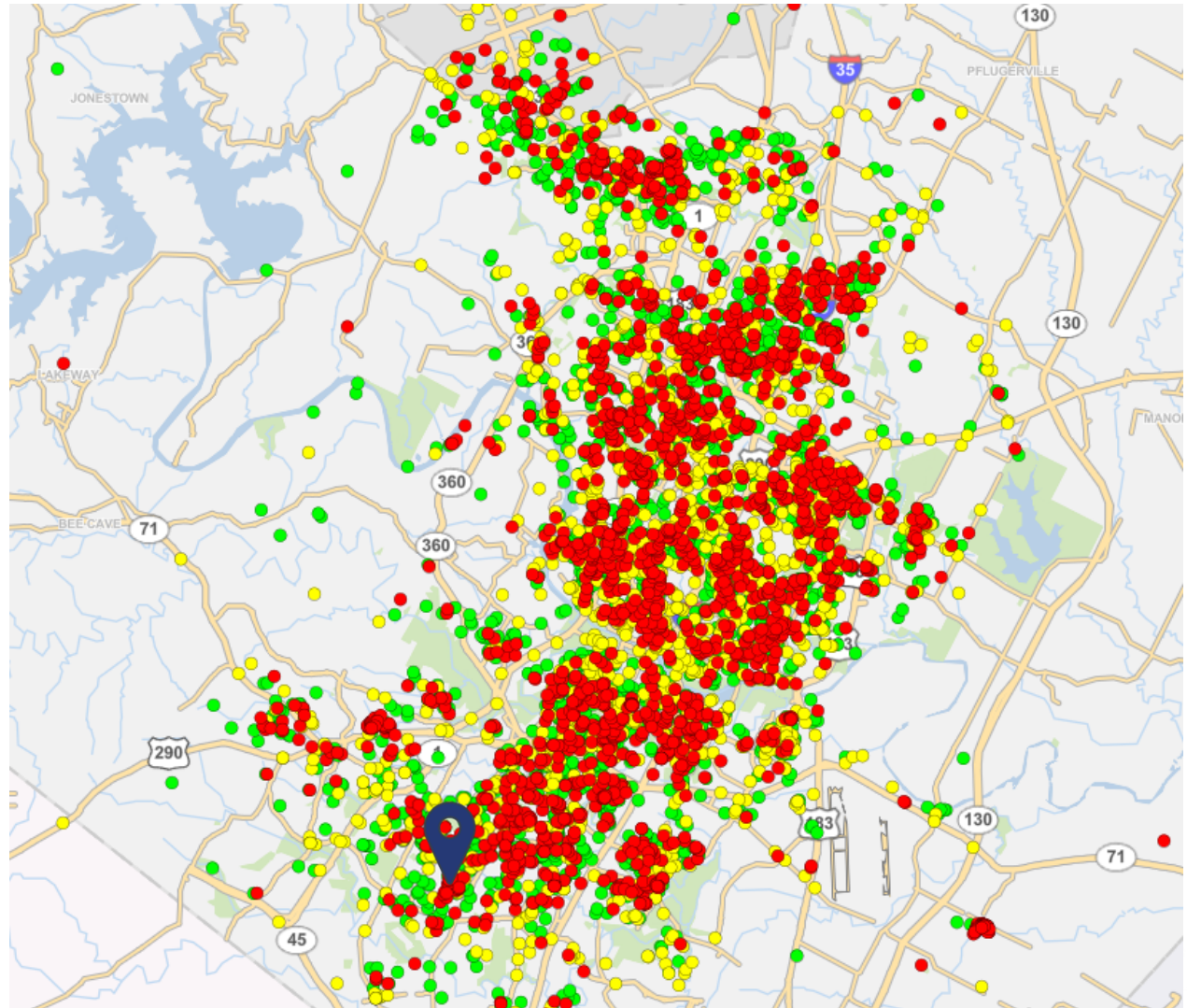


**Creek Flooding** →  
Occurs when a creek rises over its banks.



## Localized Flooding Citywide

- **6,617 Total Flooding Reports**
  - 2,301 Buildings
  - 2,694 Yards
  - 1,692 Streets
- Neighborhoods built before the 1980s tend to have more drainage problems
- Rainfall data – Atlas 14
- No quick or easy solution
- Project area located in South Austin near Davis Lane/Menchaca Road



# Components of a Storm Drain System

1. Inlets and curbs capture rainwater.



2. Underground pipes carry the water.



3. Rainwater is released into a creek at the outfall. Sometimes it goes to a pond first.



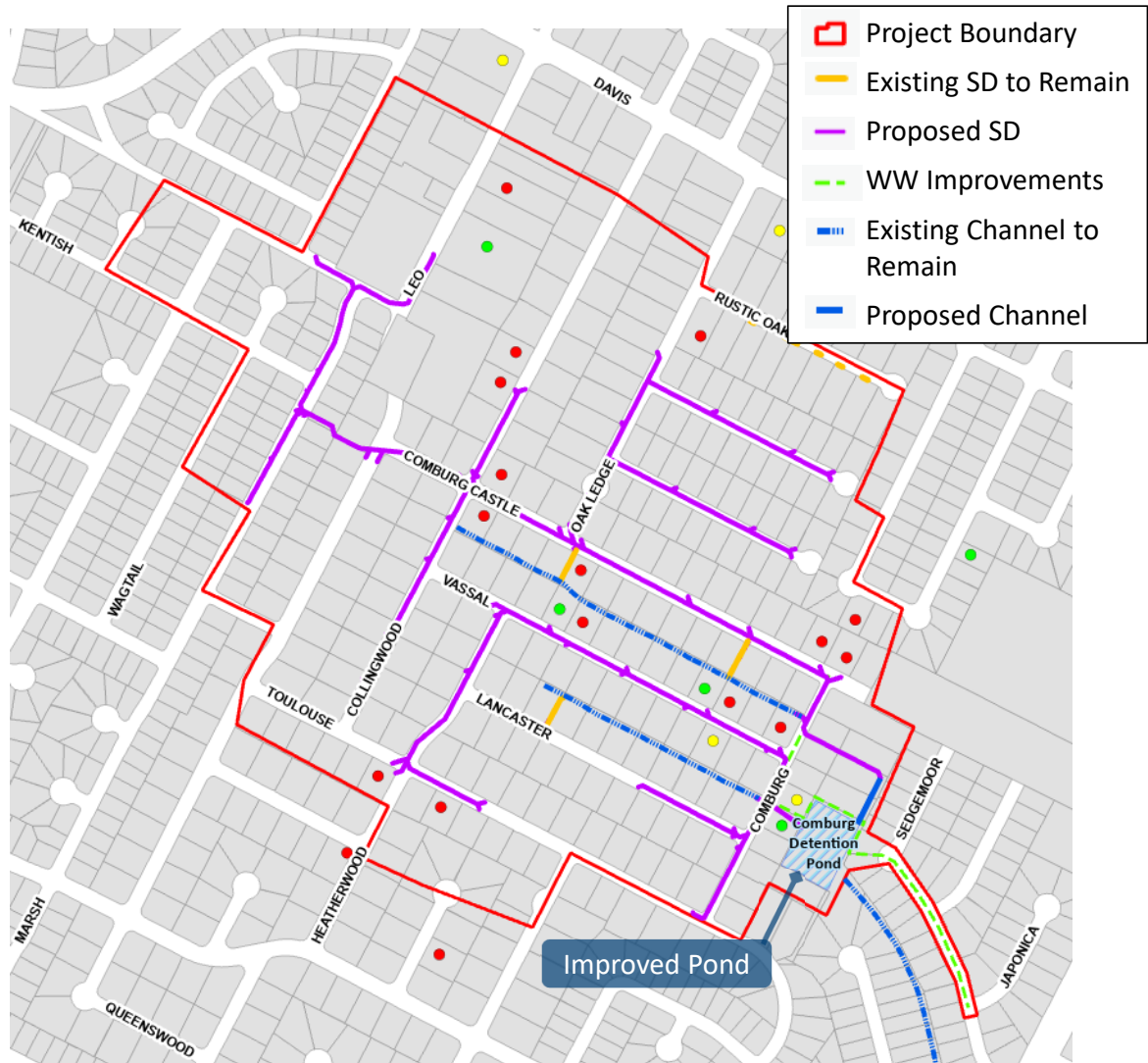
# Project Introduction

- High priority area for local flooding
- Local Flooding Reports – 21
  - 15 Building
  - 2 Yard
  - 4 Street
- Existing storm drain system
  - Combination of underground pipes and open channel
  - Built in 1980s
- Main cause of flooding
  - Inadequate storm drain infrastructure



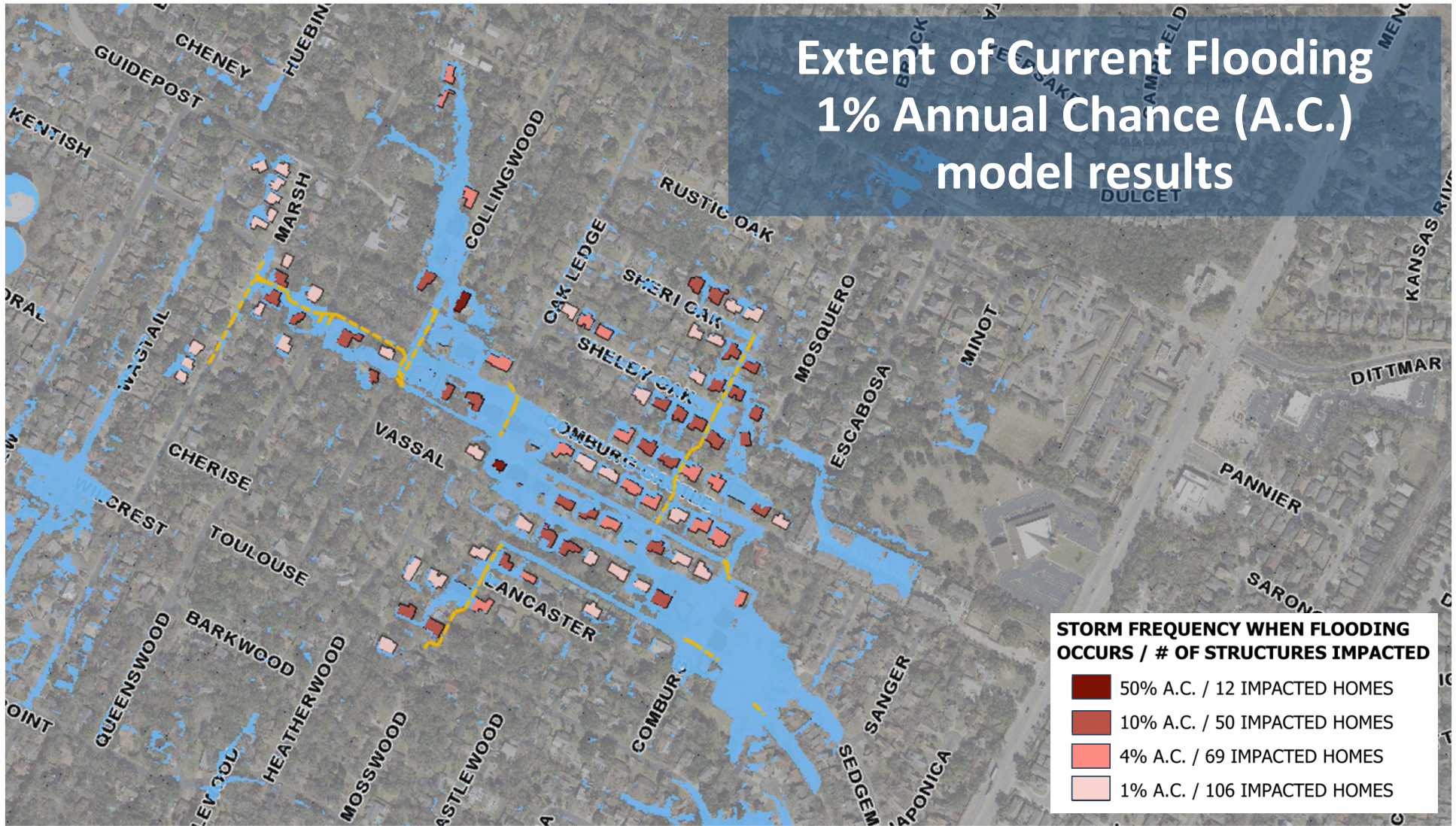
# Proposed Layout

- Reroute, extension, and upsize of storm drain (SD) system
- System will be constructed in right-of-way (street) where possible
- Expansion of existing detention pond to retain more flow

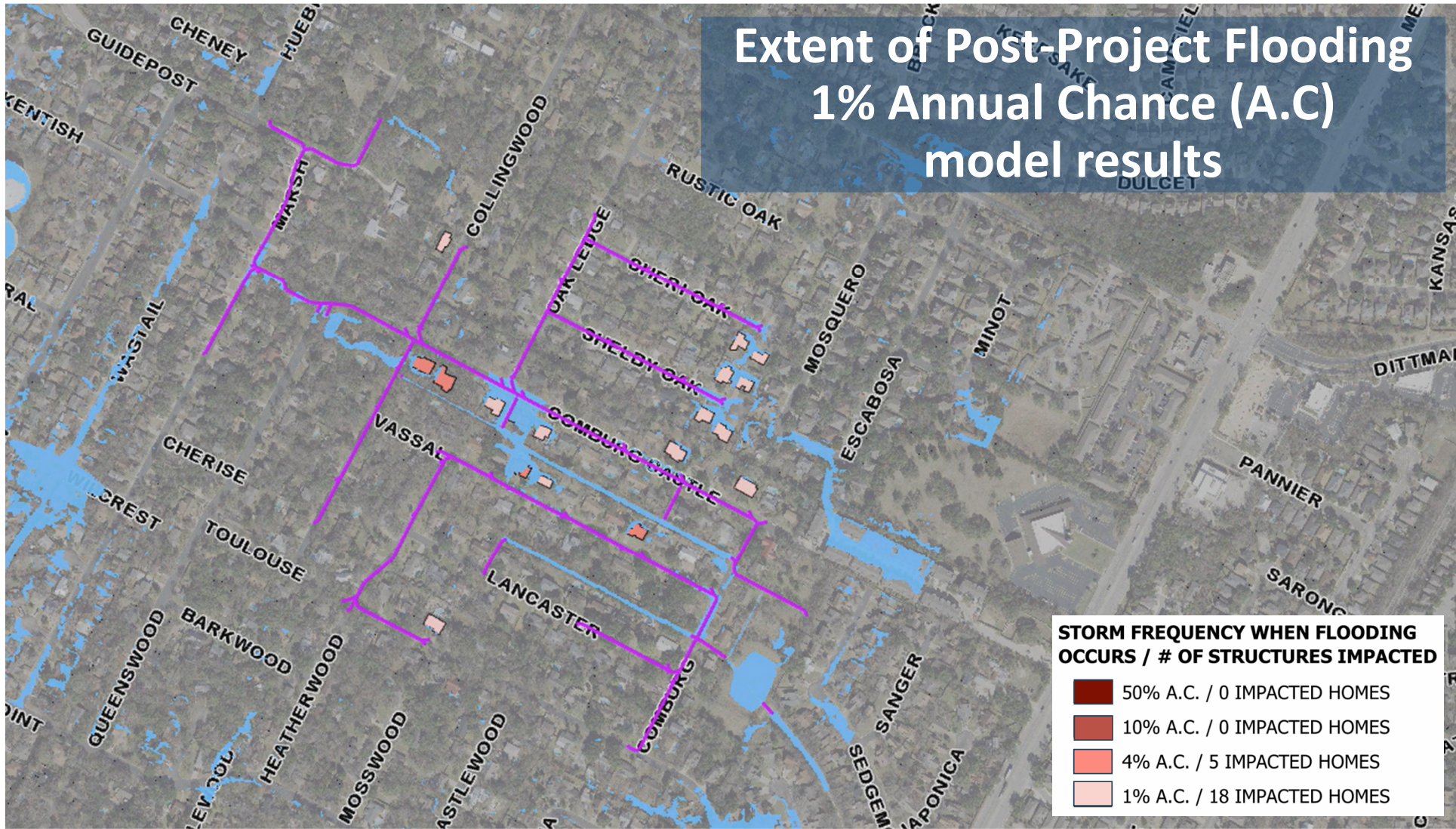




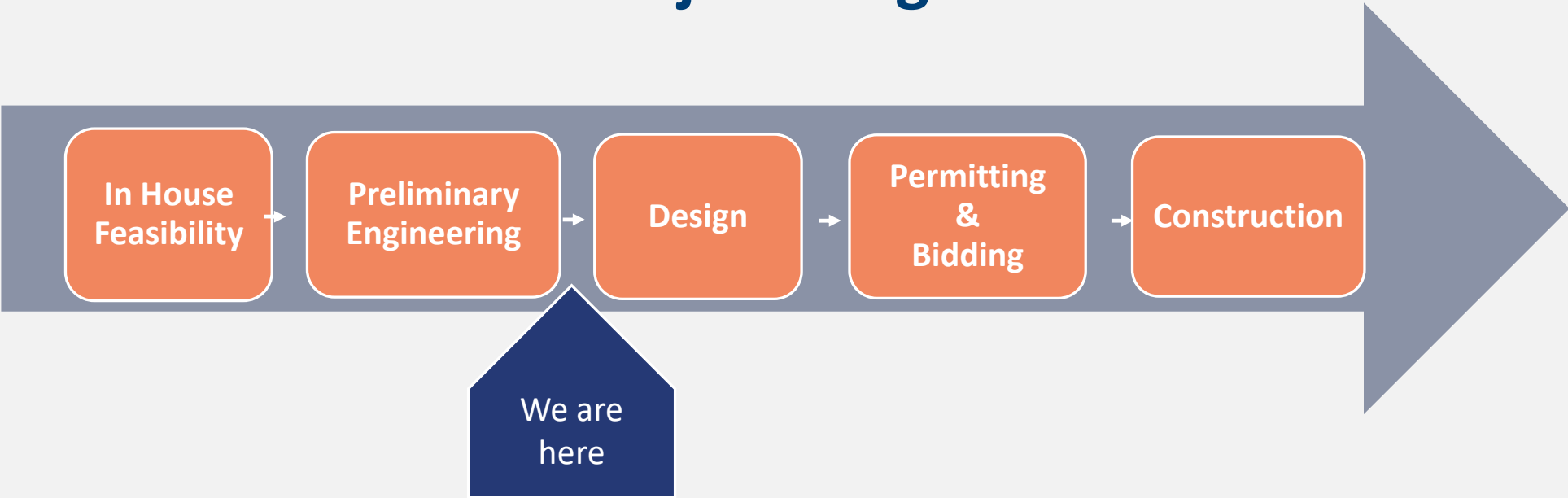
# Extent of Current Flooding 1% Annual Chance (A.C.) model results



# Extent of Post-Project Flooding 1% Annual Chance (A.C) model results



# Storm Drain Capital Improvement Program (CIP) Project Stages



# Project Implementation

- Full project estimated cost: \$18M
  - Project will be designed and constructed in smaller phases
- Each phase will be designed and constructed as a separate project
- Phase 1 will include Pond, Channel, and part of Storm Drain on Comburg
- Estimated Cost: \$4 Million



# Next Steps

- Creation of detailed designs, including multiple review sessions and design iterations.
- Easement and temporary workspace acquisition process
- Continued public outreach
- Finalizing construction plan sets
- Bid process and construction start
- Collaboration with other City of Austin utilities in area



Vassal Dr CIP

# Anticipated Project Schedule - Phase 1

## Project Design

Spring 2024 – Spring 2026

## Construction

Fall 2026 – Fall 2028



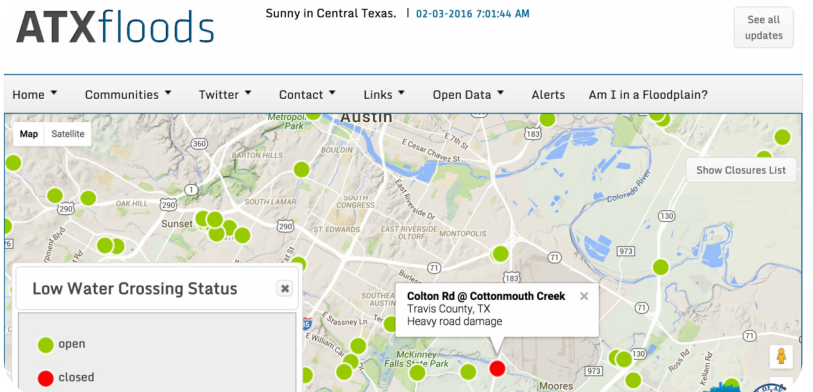
# Please help us....

- Help us design project effectively to meet your flooding needs
- Please provide feedback on your experience with flooding
  - Does it match with model results?
  - What difference have you seen that is not shown in the video?
  - Please share details, photos, videos of your flood experience.
- To provide feedback
  - Visit project web site – <https://austintexas.gov/Vassal>
  - Click on the Flooding Information Form
  - Reach out to us: [Kristina.McLaren@austintexas.gov](mailto:Kristina.McLaren@austintexas.gov)



# Available Resources

- Report flooding and drainage concerns to 3-1-1
- Avoid improvements that impact your neighbors
- Consider purchasing flood insurance
- Email [floodpro@austintexas.gov](mailto:floodpro@austintexas.gov) for information about flood-proofing
- Check [ATXfloods.com](http://ATXfloods.com) for road closures
- Sign up for [WarnCentralTexas.org](http://WarnCentralTexas.org) & [ATXfloods.com](http://ATXfloods.com)





# Rain to River

- A strategic plan to protect Austin's creeks and communities
- Guide department's work for the next 10 years
- Seeking public input
- Learn more and find out what we've heard so far at [RainToRiverATX.com](https://RainToRiverATX.com)

# Question and Answer

## How to Ask Questions

1. Click on Chat to type your question.
2. Click on More or Reactions to raise your hand.



3. On a phone, click on "More" to access the chat or raise your hand.



# Questions

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Project Sponsor

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Visit project web site – <https://austintexas.gov/Vassal>

