

ATX

FLOOD SAFETY

Walnut Creek North Acres Storm Drain Improvements

5789.126

March 7, 2023



**WATERSHED
PROTECTION**

Agenda

- Watershed Protection Department
- Key Members
- Project Update
- Questions



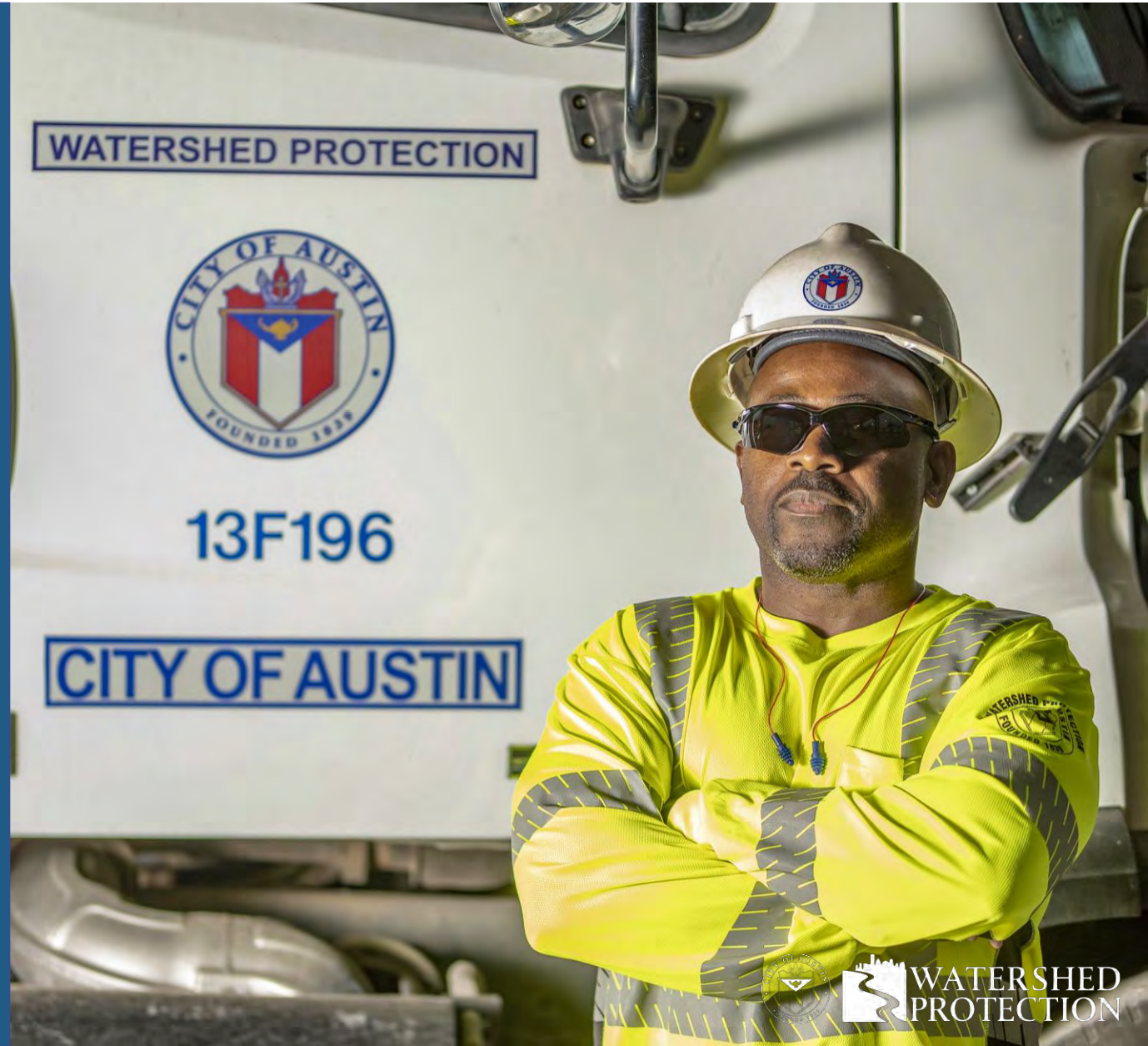
Key Members

- Kirby Haywood, PWD *Project Manager*
- Hanh Thai, WPD *Project Sponsor*
- Dedurie Kirk, AW *Project Sponsor*



Watershed Protection

Protects lives, property and the environment of our community by reducing the impact of flooding, erosion and water pollution.



Localized Flooding

Occurs away from creeks.

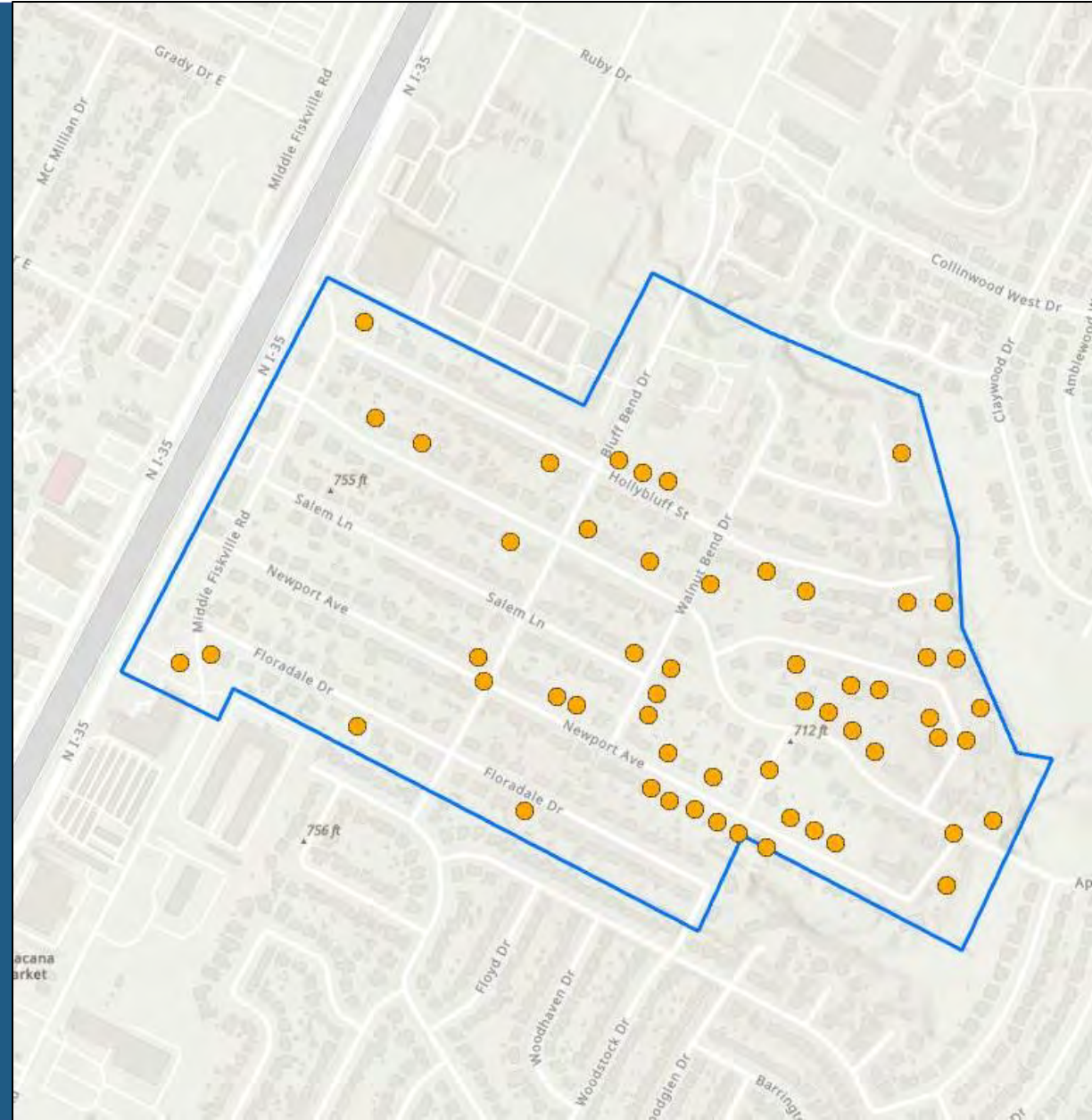


Creek Flooding

Occurs when a creek rises over its banks.

Localized Flooding

- 74 Total Flooding Reports (FY23)
 - 44 Buildings
 - 22 Yards
 - 8 Streets
- Neighborhoods built before the 1980s tend to have more drainage problems
- No quick or easy solution





What is a Storm Drain System?

- System of streets, ditches, pipes and culverts
- Drains rainfall from streets to nearby creek
- Inlets are placed along curb to catch rainfall
- Streets should drain in most storms.

Components of a Storm Drain System

1. Inlets and curbs capture rainwater.



2. Underground pipes carry the water.

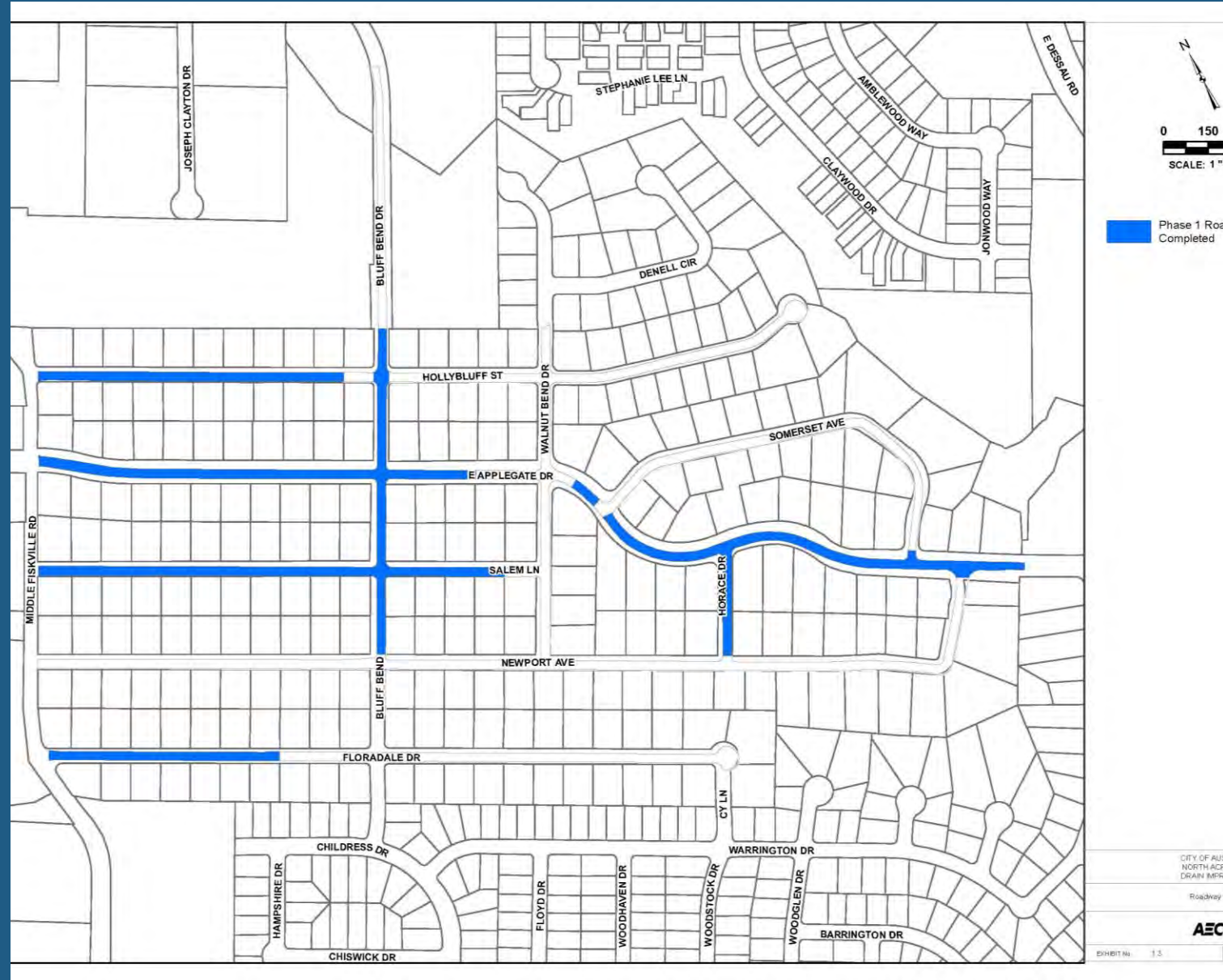


3. Rainwater is released into a creek at the outfall. Sometimes it goes to a water quality or detention pond first.



Project Update

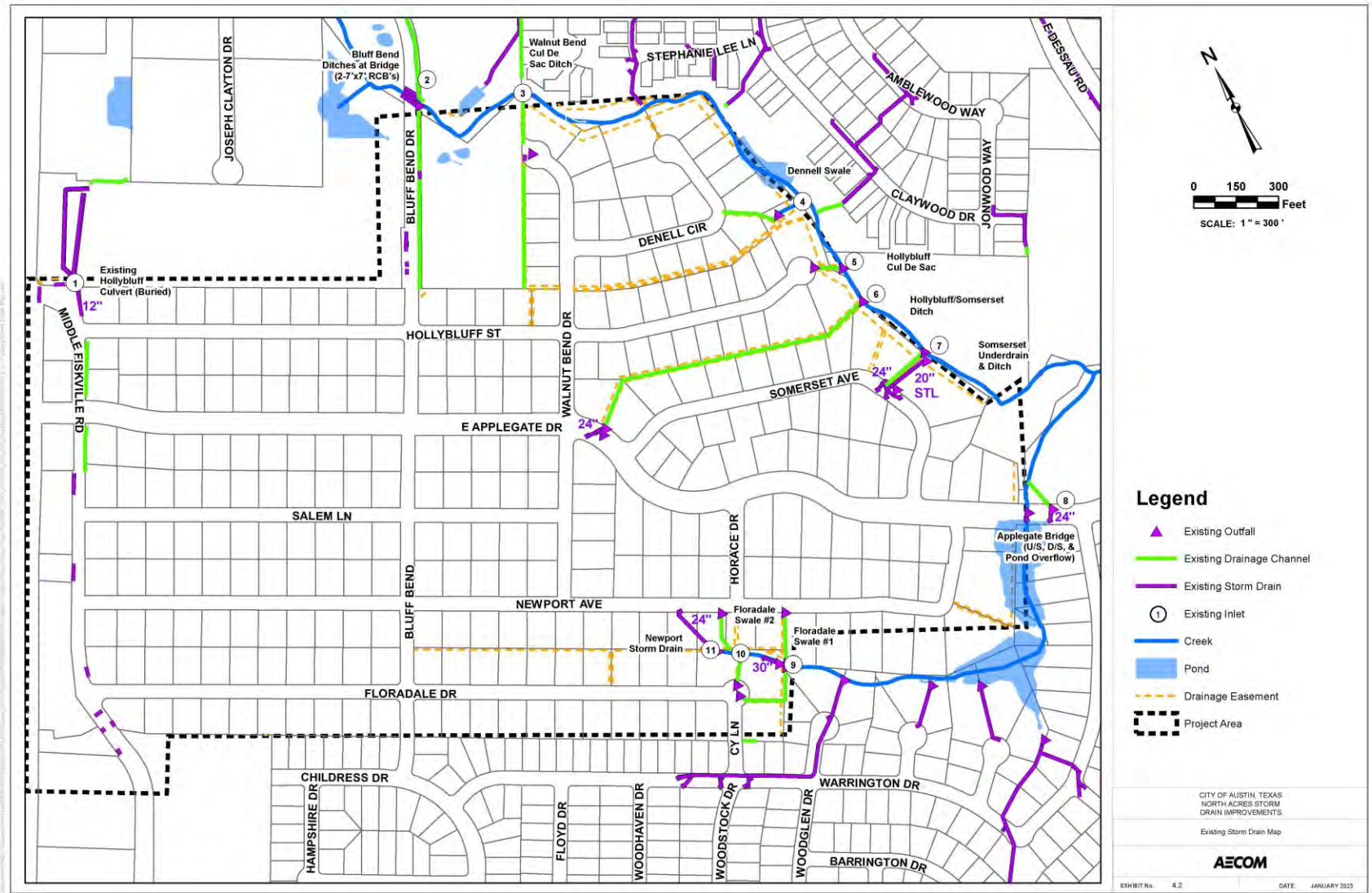
- Phase 1 complete summer '22
 - Road profiles lowered to increase drainage capacity
 - \$811,000
- Phase 2 at 60% design
 - Underground storm infrastructure and open-channel improvements
 - \$12,650,000



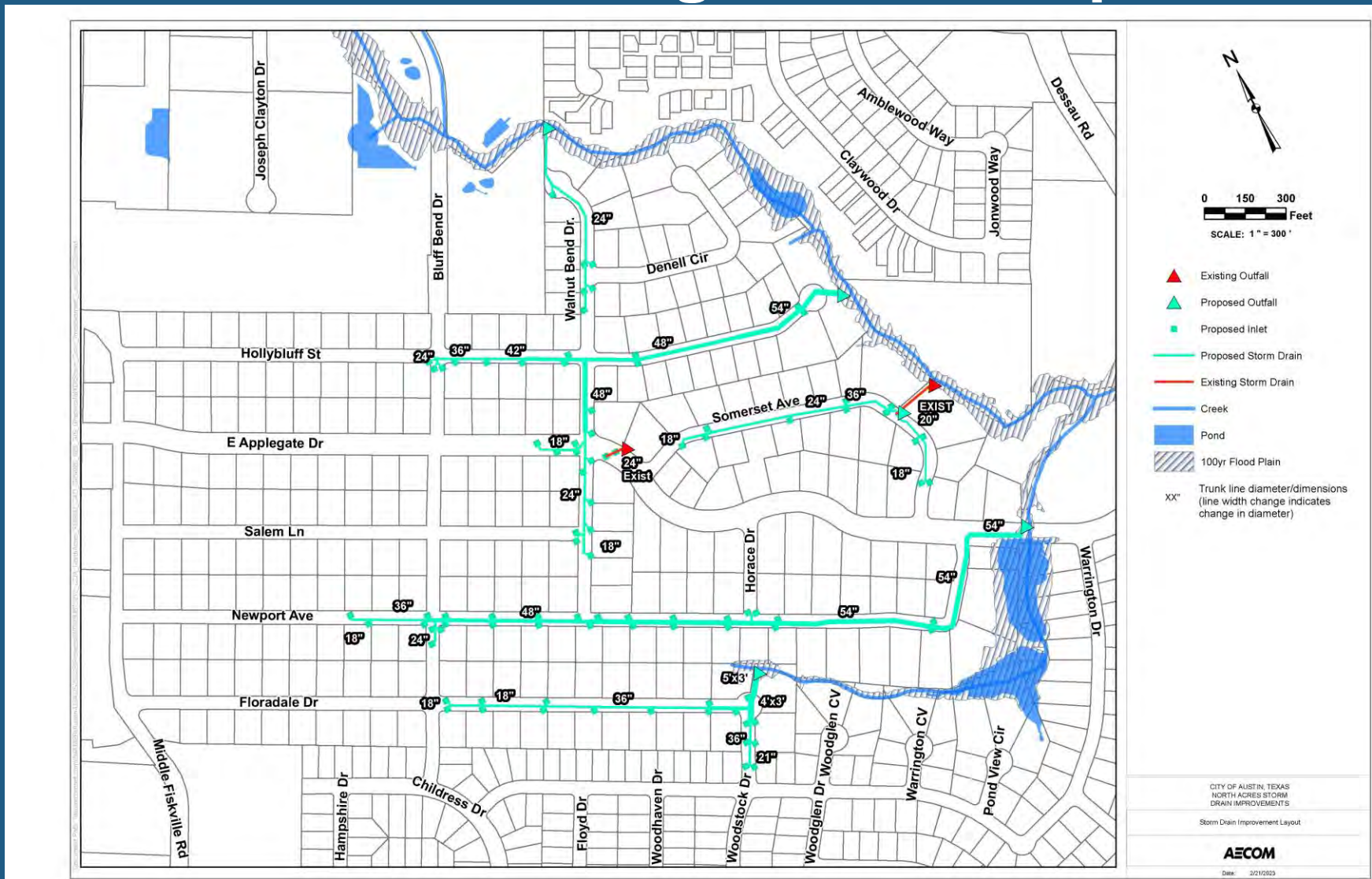
FORMER TOP
OF PAVEMENT



Storm Drain Alignments-Existing



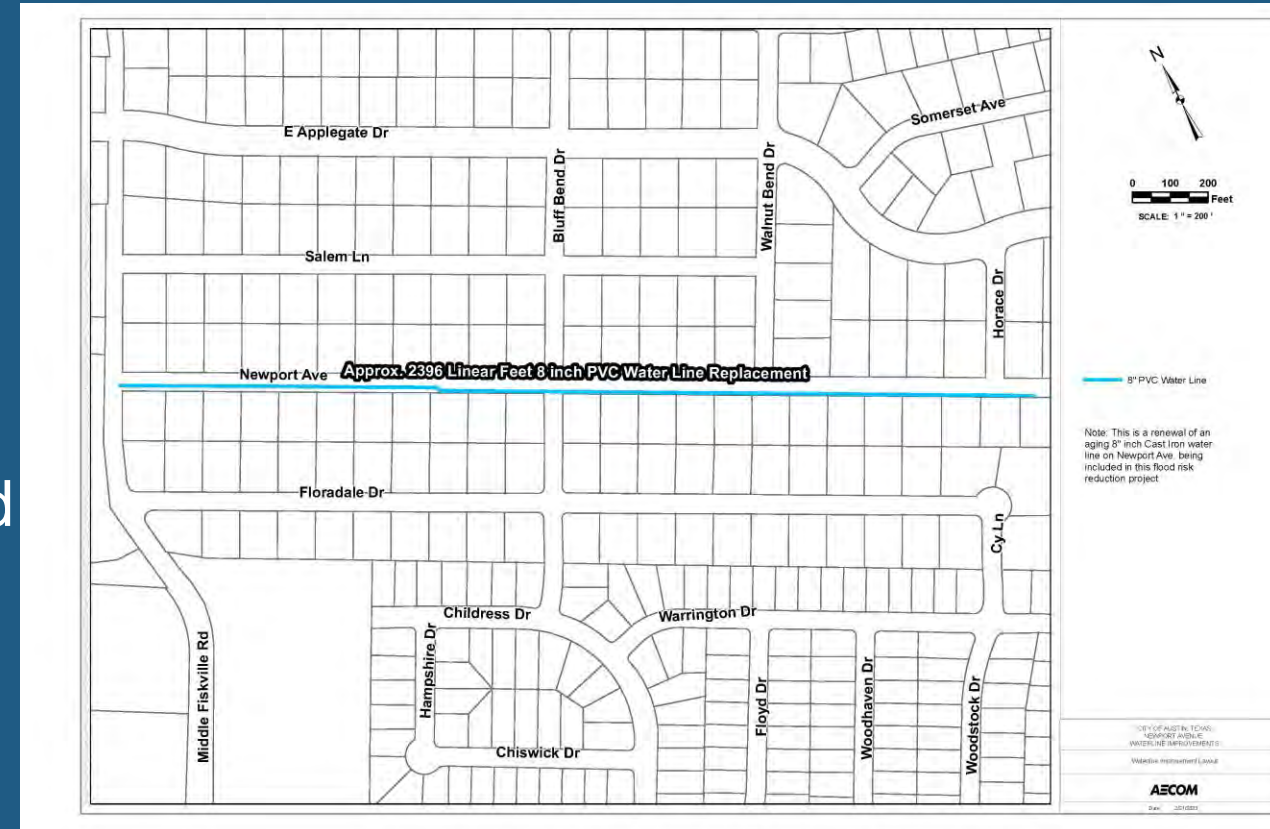
Storm Drain Alignments-Proposed



AW Renewal Program

Newport Avenue Water Pipeline Renewal

- Newport Avenue from Middle Fiskville Road to Horace Drive.
- Replace approximately 2,353 linear feet of 8" Cast Iron Water Main with multiple documented breaks.
- Improve reliability for customers and avoid further expenditures to maintain
- Incorporated into this Watershed Protection Project to "dig once"



Easement Needs

- **Drainage Easements**
 - **Permanent**
 - **Access and Maintenance**
 - **Allows for flow of stormwater**
 - **Owner should maintain as grass or flowers**
- **Temporary Workspace Easements**
 - **Leased for duration of construction**
 - **Includes staging areas**
 - **Gives contractor access and room to work safely**

Storm Drain Capital Improvement Project Phases

In House
Feasibility

Preliminary
Engineering

Design &
Easements

Permitting
&
Bidding

Construction
Anticipated Late
2024/ Early 2025

We are
here

Questions?

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<http://www.austintexas.gov/northacres>

Thank you!