ATX FLOOD SAFETY

PROPOSED CLOSURE of OLD SAN ANTONIO ROAD LOW WATER CROSSING

Public Meeting
June 18, 2019

WATERSHED PROTECTION

Agenda

1. Welcome and Introduction
2. Low Water Crossing Project
3. Traffic Information
4. Questions

Introductions

Watershed Protection Department

Reem Zoun, P.E., Supervising Engineer

Stephanie Lott, Public Information Specialist Sr.

Austin Transportation Department

Curtis Beaty, P.E.

South Area Transportation Engineer

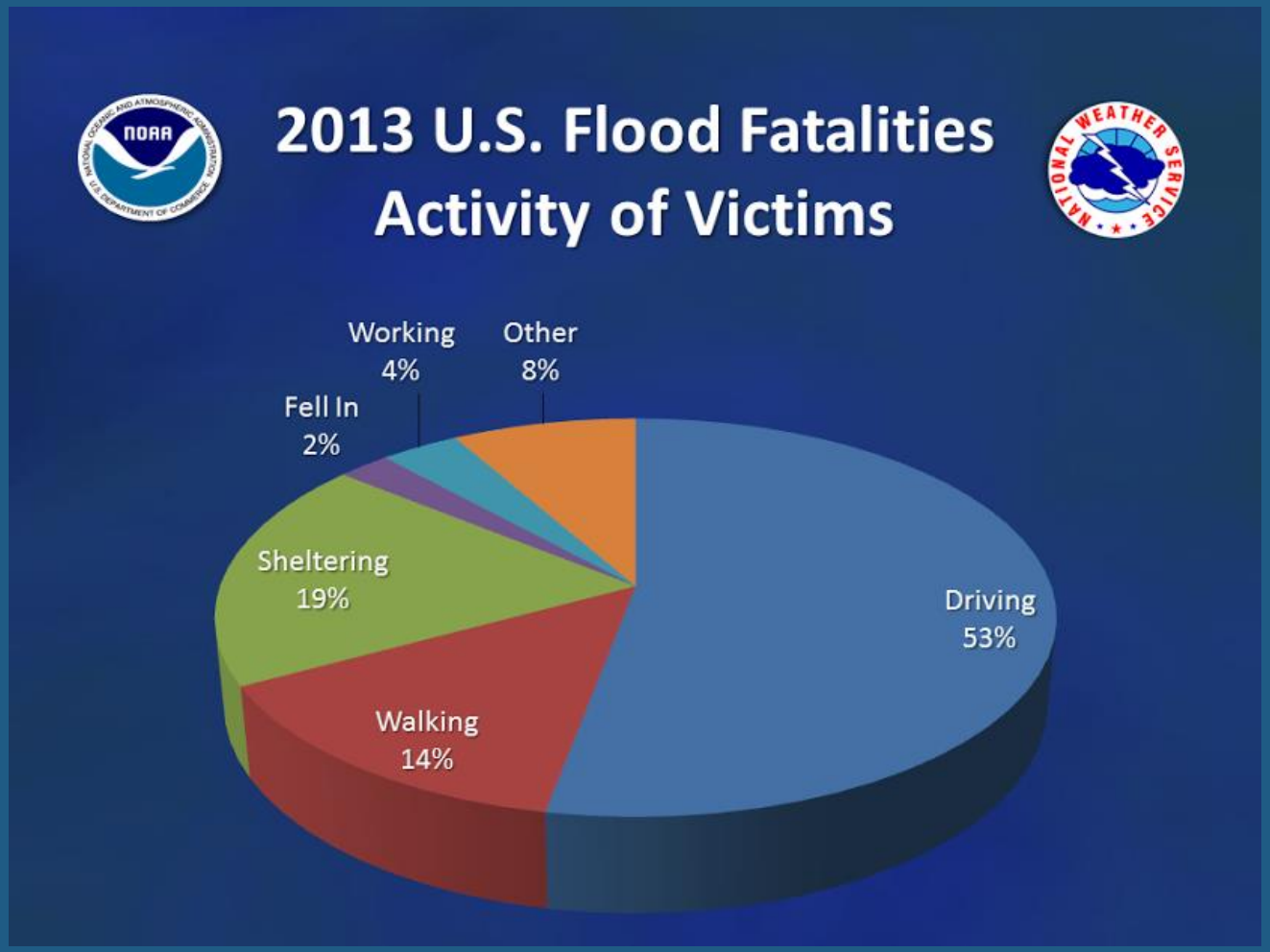
Watershed Protection

- Protects **lives**, property and the environment
- From **flooding**, erosion and water pollution
- Funding from drainage charge
- Funds can only be used for drainage-related needs

Low Water Crossings

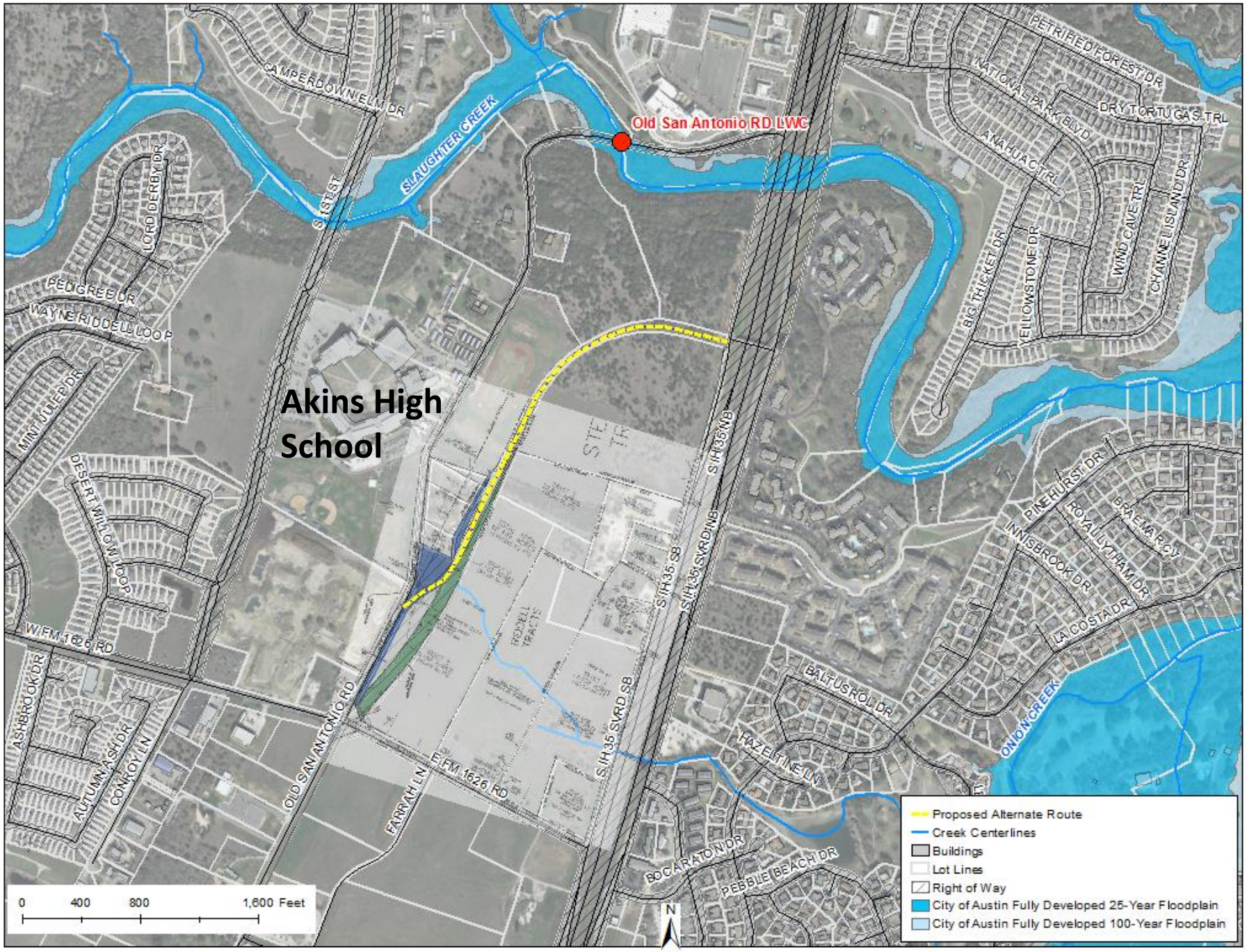
- Hundreds of roads are at risk of flooding
- Flash floods can occur in minutes – faster than we can react
- 18 water rescues on May 3, 2019

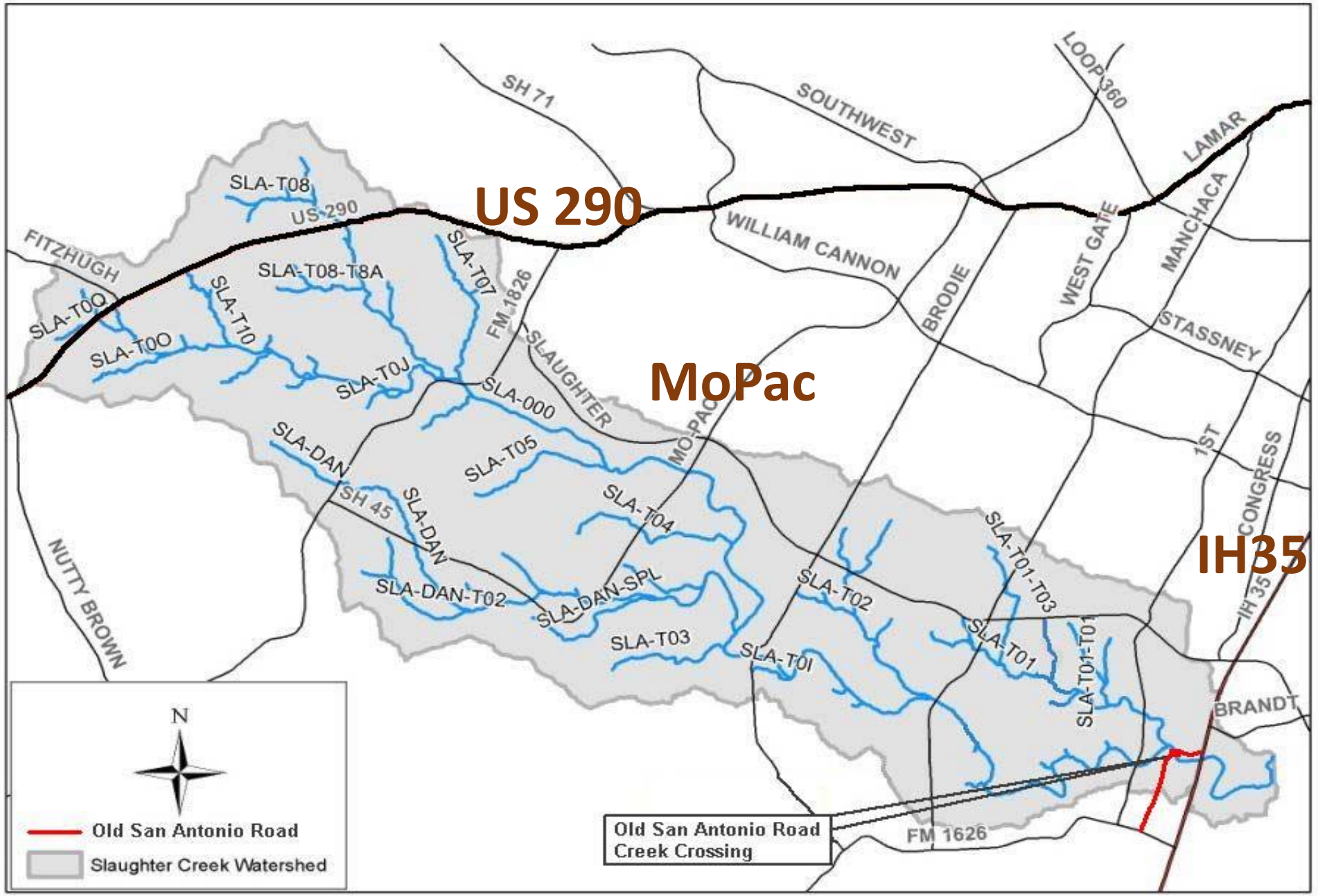
"We had so many calls at one time, it was hard to keep track,"
Austin Travis County Emergency Medical Services Cmdr. Mike Benavides, as quoted in the Austin American-Statesman.



Roadway Flooding Risk

- Creek crossings
- Majority of flood-related deaths are caused by people attempting to drive through moving water
- ~400 roadway creek crossings in COA full purpose jurisdictions
- Old San Antonio Road (OSR) Ranks Very High
- OSR is at risk of ~17ft of flooding during a 100year storm event


Old San Antonio RD LWC
Akins High School
SLAUGHTER CREEK
CAMPERDOWN ELM DR
S 1ST ST
LORD DERBY DR
PEDIGREE DR
WAYNE RIDDELL LOOP
MINT JULEP DR
DESERT WILLOW LOOP
W FM 1626 RD
ASHBROOK DR
AUTUMN ASH DR
CONROY LN
OLD SAN ANTONIO RD
FARRAH LN
E FM 1626 RD
S IH 35 SB
S IH 35 SVRD NB
S IH 35 NB
S IH 35 SVRD SB
RIDDELL TRACTS
PETRIFIED FOREST DR
NATIONAL PARK BLVD
DRY TORTUGAS TRL
ANAHUAC TRL
BIG THICKET DR
YELLOWSTONE DR
WIND CAVE TRL
CHANNEL ISLAND DR
PINEHURST DR
ROYAL LYTHAM DR
BRAEMAR CV
INNISBROOK DR
LA COSTA DR
BALTUSROL DR
HAZELTINE LN
ONION CREEK
BOCA RATON DR
PEBBLE BEACH DR
0 400 800 1,600 Feet
N
Proposed Alternate Route
Creek Centerlines
Buildings
Lot Lines
Right of Way
City of Austin Fully Developed 25-Year Floodplain
City of Austin Fully Developed 100-Year Floodplain

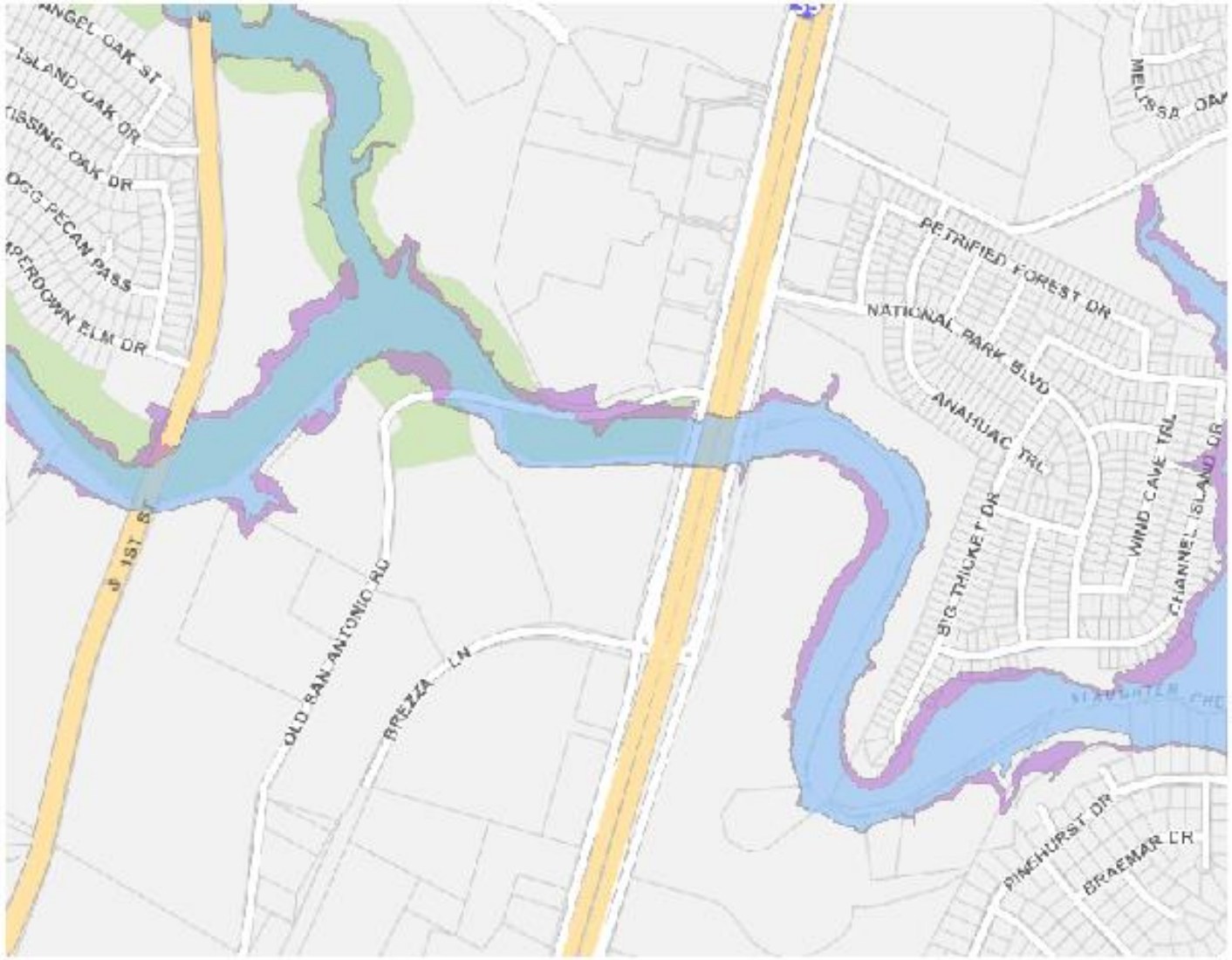


SLAUGHTER CREEK DRAINAGE AREA = 30.7 SQUARE MILES


N
Cinemark
Southpark Meadows
Old San Antonio Rd
rontage Rd

WATERSHED PROTECTION

City of Austin FloodPro Map



Interim Atlas 14 100-Year Floodplain

- Interim Atlas 14 100-Year Floodplain
- Current 100-Year Floodplain

This custom map was created with FloodPro and is for informational purposes only. It is not intended for or suitable for legal, engineering, or surveying purposes. It does not represent on-the-ground survey and represents only the approximate relative locations of property boundaries. No warranty is made by the City of Austin regarding the specific accuracy or completeness of the map. Final determination of floodplain status for a property must be based on topographic survey by a Texas registered professional. For regulatory purposes, floodplain elevations must be determined from an engineering model created in accordance with the Drainage Criteria Manual and approved by the City of Austin.

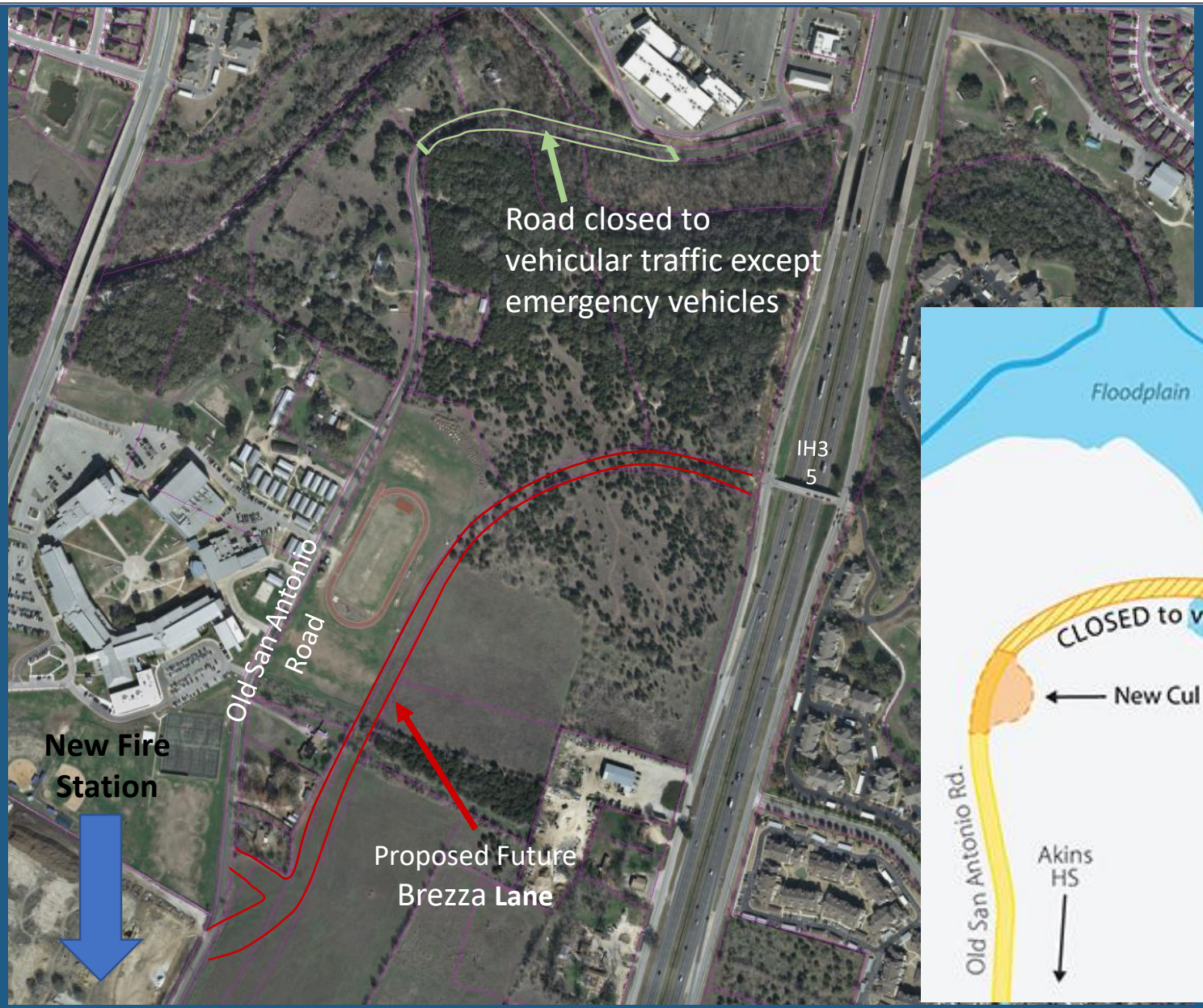
0 808 1,616 Feet

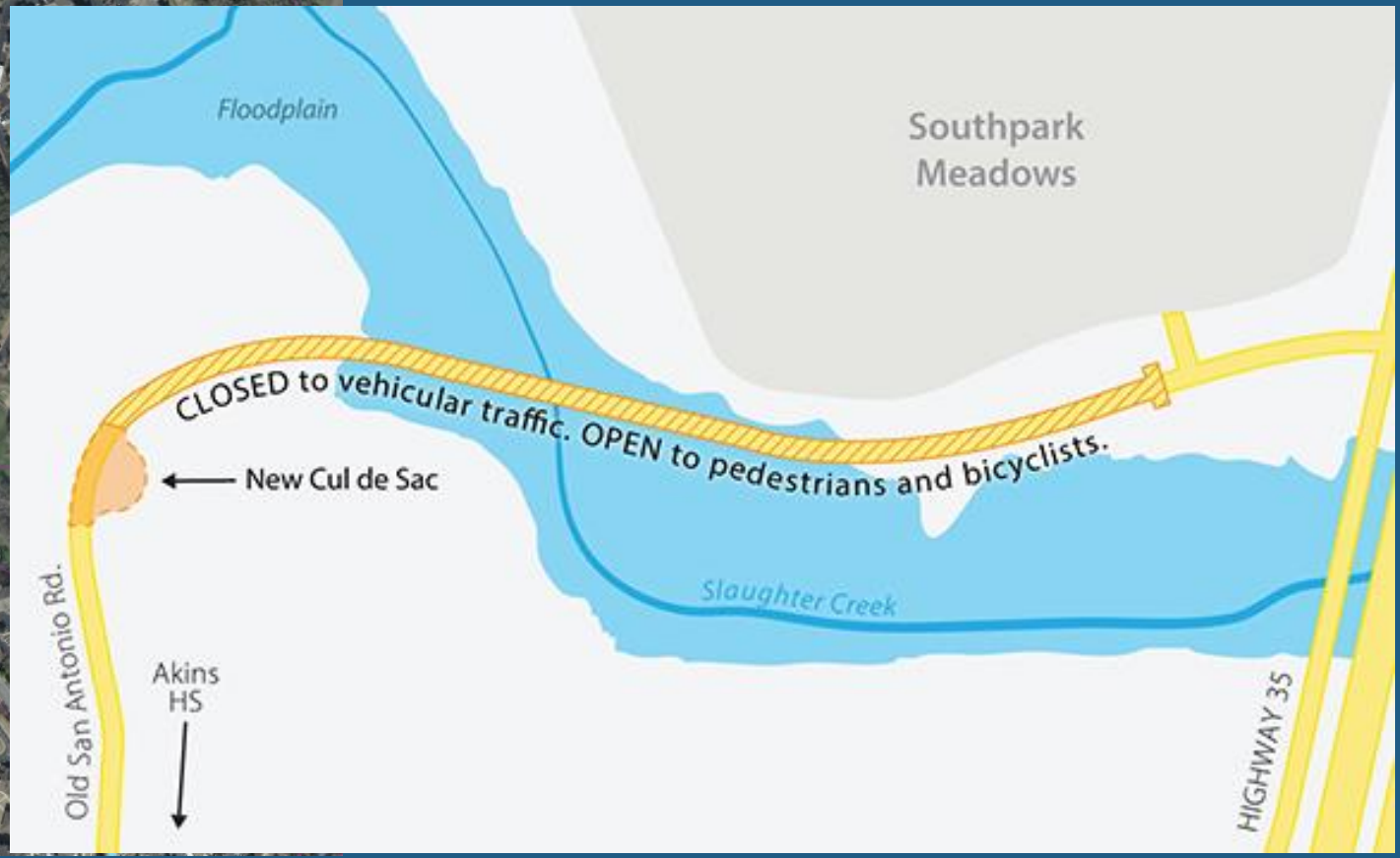
Prepared: 6/17/2019

Flood Risk Reduction Options

- Manual Barricades and flashing lights
  - Current condition
- Gate arms
  - Unreliable and ineffective during storm events
  - WPD moved away from using these
- Upgrading the bridge
  - 17ft of inundation risk during 100-year event requires a very high and expensive bridge
- Closure of Low Water Crossing
  - Coordination with Austin Transportation, Austin Police, Austin Fire, EMS and Parks Department
  - New Fire Station at the intersection of OSR and FM1626
  - Right of Way for alternate route was available
  - Pedestrian safety concern along Old San Antonio Road

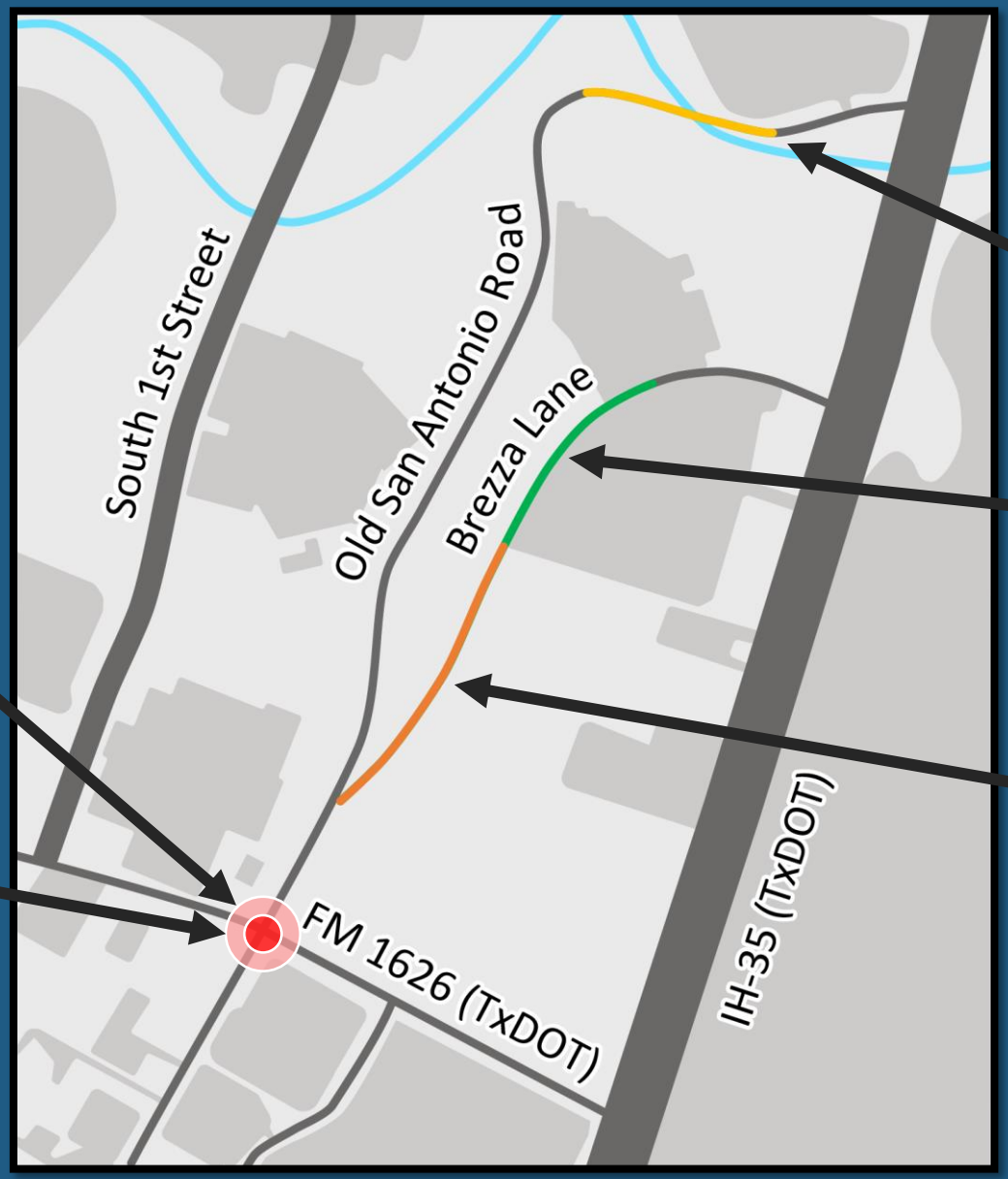
Recommended Solution





Advantage of Closing Old San Antonio Road

- Protect against loss of lives during floods.
- More reliable flood risk reduction.
- Safer bike and pedestrian route due to significant reduction in vehicular traffic.
- Reduction of emergency response requirement at LWC.
- Maintain emergency access.
- Historic bridge remains.



Low-water crossing

Traffic Signal
(to be constructed by private developer)

Brezza Lane
(to be constructed by City of Austin)

Intersection Improvements
(to be constructed by private developer)

Brezza Lane
(to be constructed by private developer)

WATERSHED PROTECTION

FM 1626 Substandard Street Project

- The City of Austin evaluated FM 1626 as part of the 2016 Mobility Bond Program.
- This project evaluated road conditions, missing sidewalks, curbs and drainage elements.

FM 1626 – Draft Recommendations

- Roadway reconstruction
- Lane widening and addition of a two-way left turn lane
- Signal timing optimization for existing signals at S. 1st Street
- Improved sight distance on S-curve
- Installation of new signals at Wayne Riddell Loop and Old San Antonio Road
- Construction of additional turn lanes at Twin Creeks Road, Wayne Riddell Loop, S. 1st Street, Old San Antonio Road, and Farrah Lane
- New 10 foot shared-use path on both sides of FM 1626
- Improved drainage
- Addition of new trees

*Funding to design and construct these improvements has not been identified.

FM 1626 Substandard Street Project

austin MOTION

THE 2016 MOBILITY BOND

More information: AustinTexas.gov/FM1626

Path Forward for Old San Antonio Road Low Water Crossing

- Timeline
  - Project in permitting.
  - Construction expected to begin in late 2019 or early 2020.
  - Feedback received today will guide us on the timeline of this project.

Questions