



Bond Election Advisory Task Force Drainage & Flooding Needs Overview, Part 2

August 8, 2017

Past / Future 

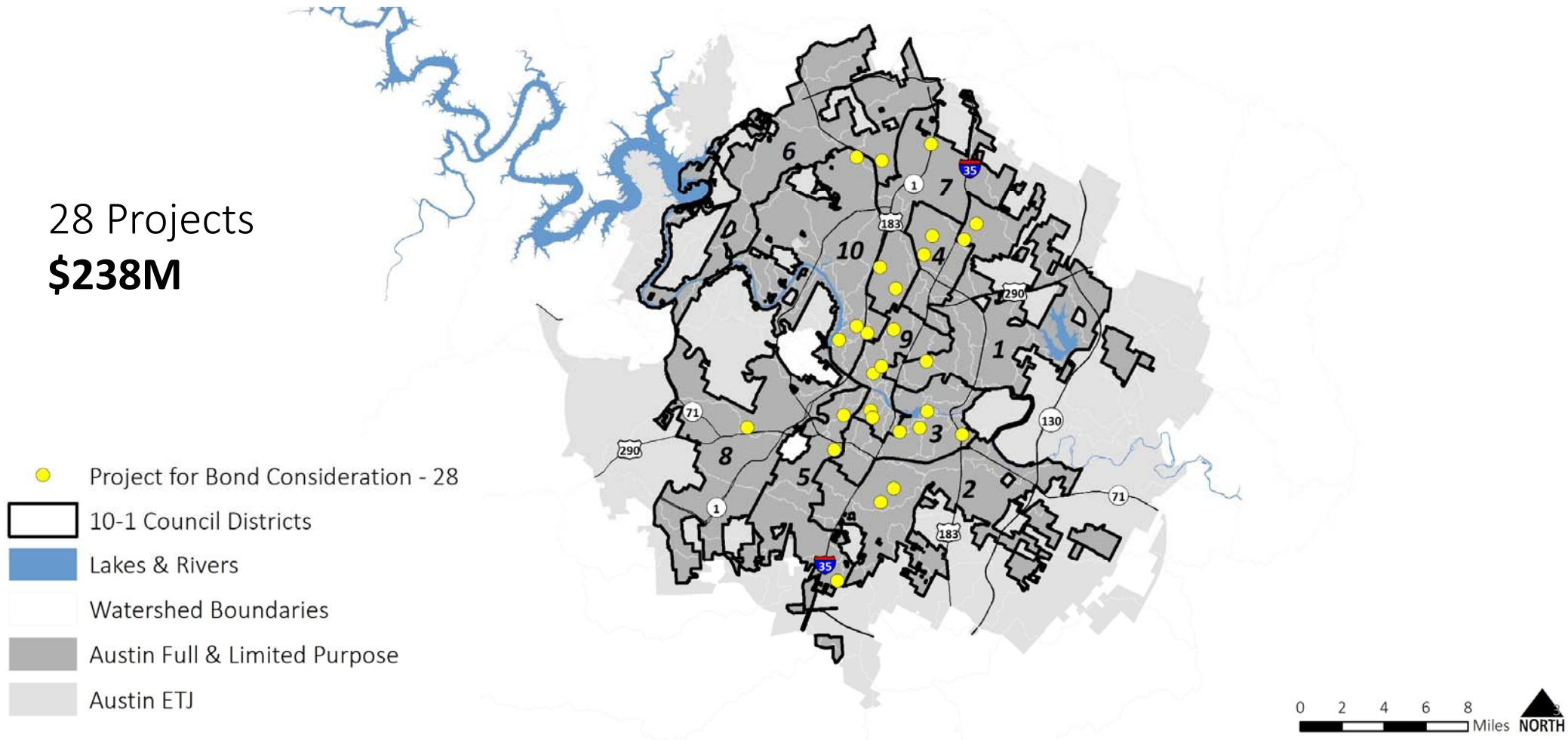


Presentation Overview

- 2018 Stormwater Bond Needs Assessment
 - Map and list of projects
- Oak Park/Oak Acres Flood Mitigation Study
- Onion Creek Floodplain and Flood Hazard Mitigation Study

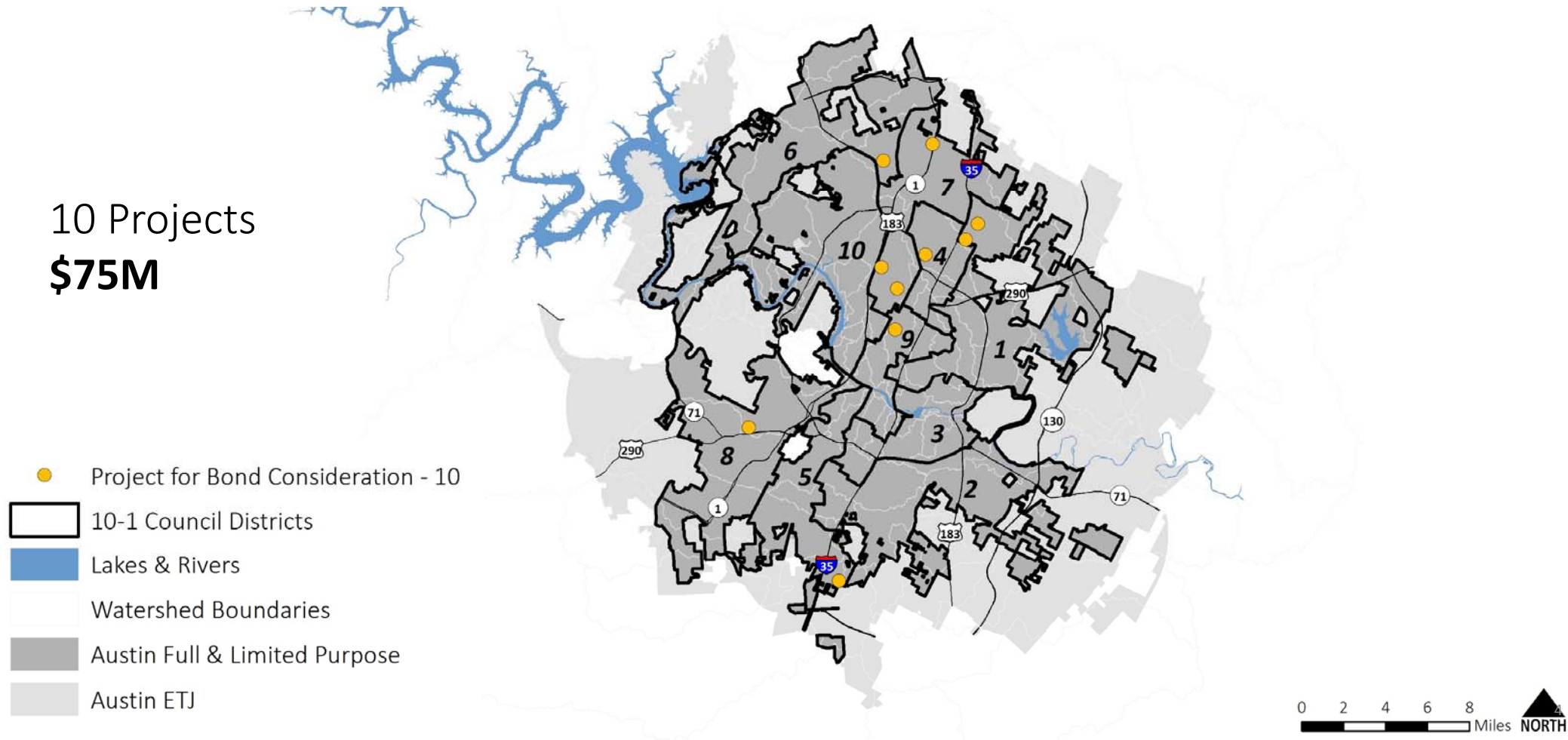
Stormwater 2018 Bond Needs Assessment

28 Projects
\$238M



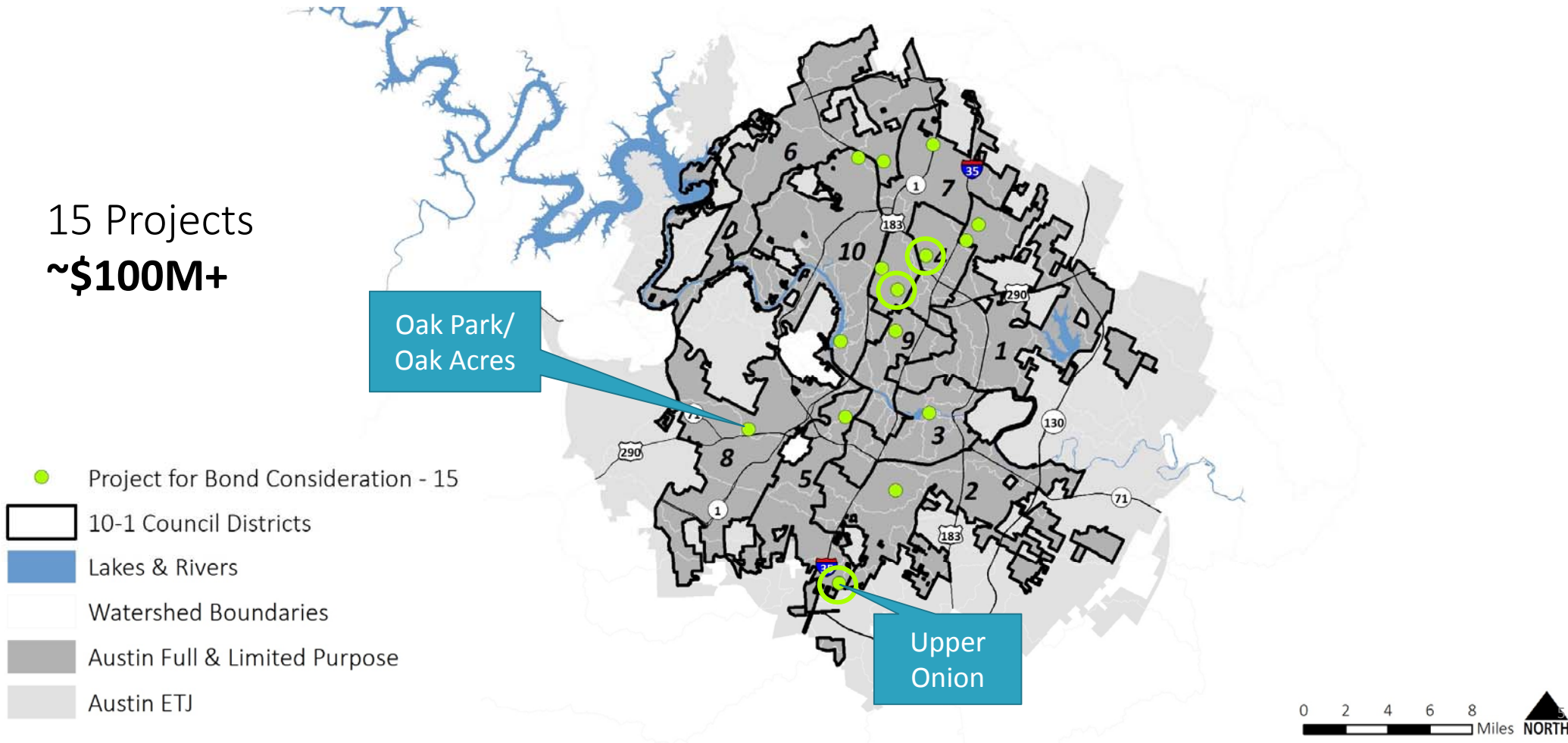
Stormwater “Starting Point” from June 16th BEATF Meeting

10 Projects
\$75M










Most Appropriate for 2018 Bond Implementation

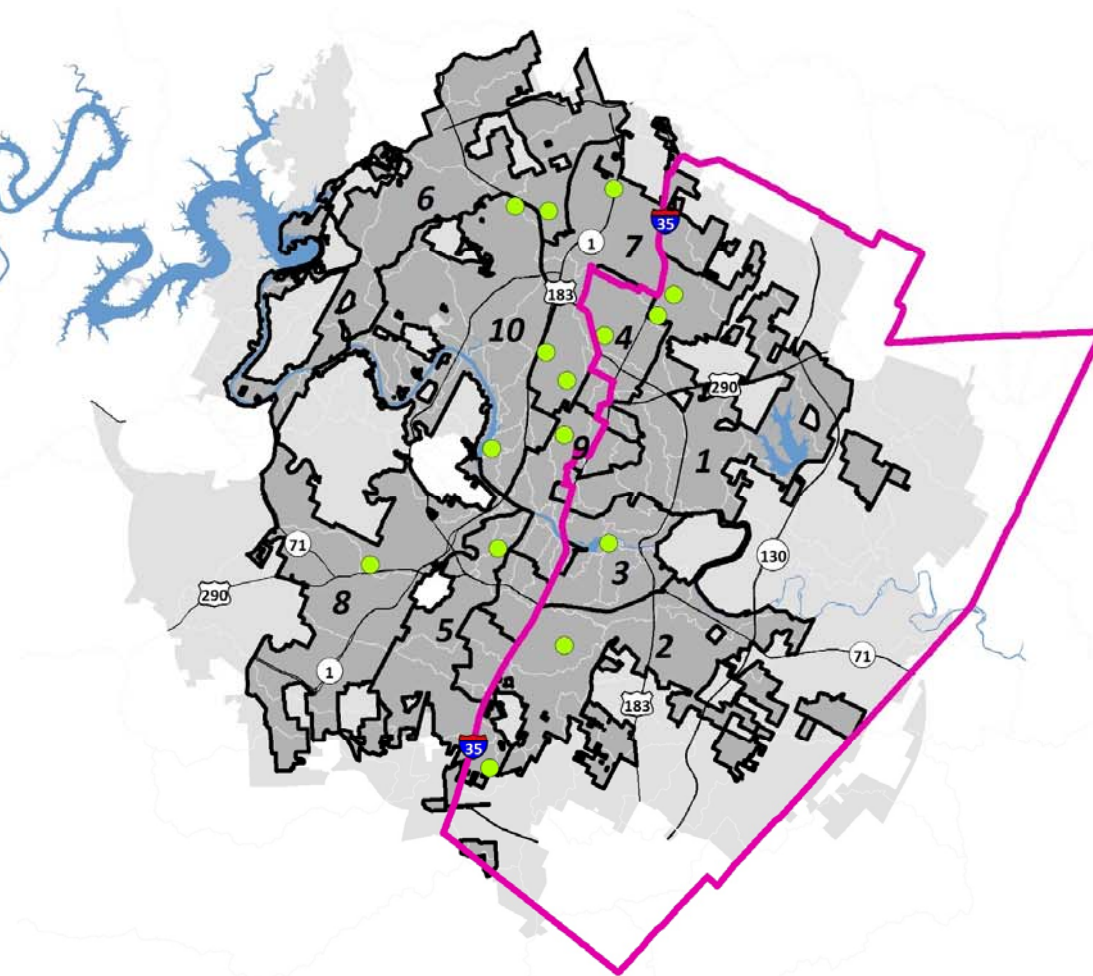
15 Projects
~\$100M+



Most Appropriate for 2018 Bond Implementation

15 Projects
~\$100M+

-  Eastern Crescent Boundary
-  Project for Bond Consideration - 15
-  10-1 Council Districts
-  Lakes & Rivers
-  Watershed Boundaries
-  Austin Full & Limited Purpose
-  Austin ETJ



0 2 4 6 8 Miles  NORTH

“Most Appropriate” Considerations

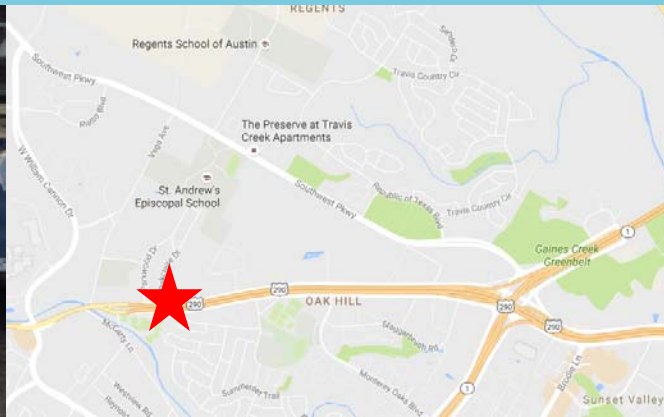
- Problem severity
 - All projects identified in FY17 Bond Needs Assessment highly critical and/or timely strategic need
- Implementation timing
 - Complete or implement next major phase of project within 5-year bond period
 - “Most Appropriate” projects shovel-ready in 2019-23

By focusing potential bond funding on a subset of shovel-ready projects, DUF funds can be used towards advancing additional high-priority CIP projects currently in preliminary phases.

Original Priority	Project Name	FY17 Bond Needs	\$75M Scenario	\$100M+ Scenario	Council District
1	Lower Shoal Creek Flood Hazard Mitigation - Phase 1	✓			9
2	Oak Park Oak Acres Storm Drain Improvements	✓	✓	✓	8
3	Brentwood Drainage Improvements	✓	✓	✓ *	7
4	Jamestown Drainage Improvements	✓	✓	✓ *	4
5	Pinehurst Dr and Wild Dunes Flood Mitigation - Phase 1	✓	✓	✓ *	5
6	North Acres Storm Drain Improvements	✓	✓	✓	1
7	Guadalupe St, W. 35-37th Storm Drain Improvements	✓	✓	✓	9
8	Northwest Park Dam Maintenance/Modernization	✓	✓	✓	7
9	Whispering Valley and West Cow Path Flood Mitigation	✓	✓	✓	6
10	Carson Creek Flood Hazard Mitigation	✓			3
11	Brassiewood Dr Storm Drain Improvements	✓			2
12	McNeil Drive Low Water Crossing Improvements	✓	✓	✓	7
13	Annie St Storm Drainage Improvements	✓			9
14	January Dr Storm Drain Improvements	✓	✓	✓	1

Original Priority	Project Name	FY17 Bond Needs	\$75M Scenario	\$100M+ Scenario	Council District
15	Little Walnut Creek Flood Hazard Reduction	✓			4
16	Richmond Tributary Rehabilitation	✓			5
17	Oak Knoll Drainage Improvements	✓		✓	10
18	Roy G. Guerrero Park Channel Stabilization	✓		✓	3
19	Del Curto Storm Drain Improvements	✓		✓	5
20	Meredith St. Storm Drain Improvements	✓		✓	10
21	MLK TOD Storm Drain Improvements	✓			1
22	Pleasant Valley/Elmont Storm Drain Improvements	✓			3
23	Nueces St Storm Drain Improvements	✓			9
24	Warren St Storm Drain Improvements	✓			10
25	West Monroe St. Low Water Crossing Improvements	✓			9
26	Nuckols Crossing Low Water Crossing Improvements	✓		✓	2
27	Oakmont Blvd. Storm Drain Improvements	✓			10
28	Briar Hill Dr Storm Drain Improvements	✓			3
	Count	28	10	15	

Oak Park/Oak Acres Flood Mitigation Study



John Middleton, P.E.

RPS Group

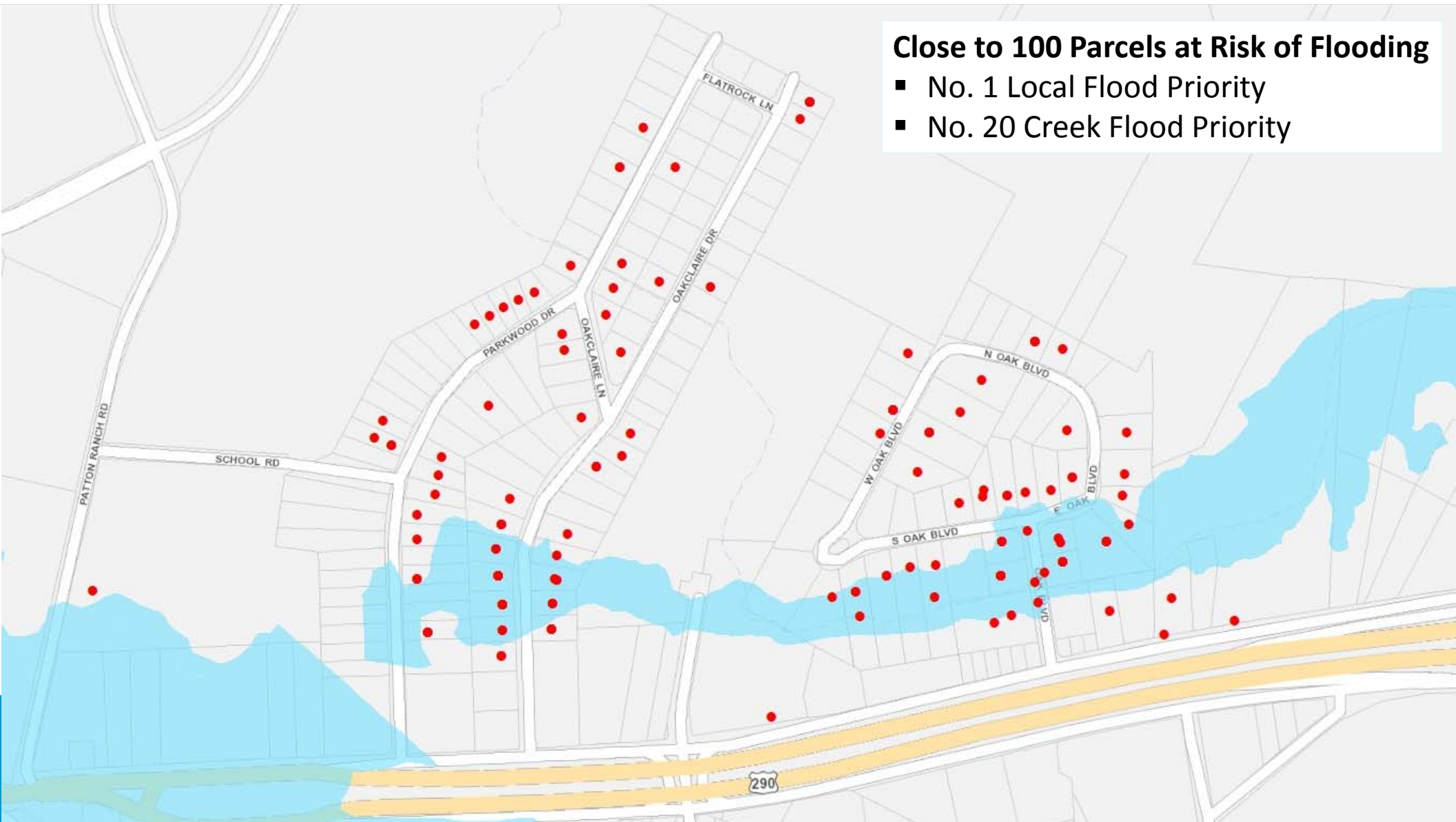
Rupali Sabnis, P.E.



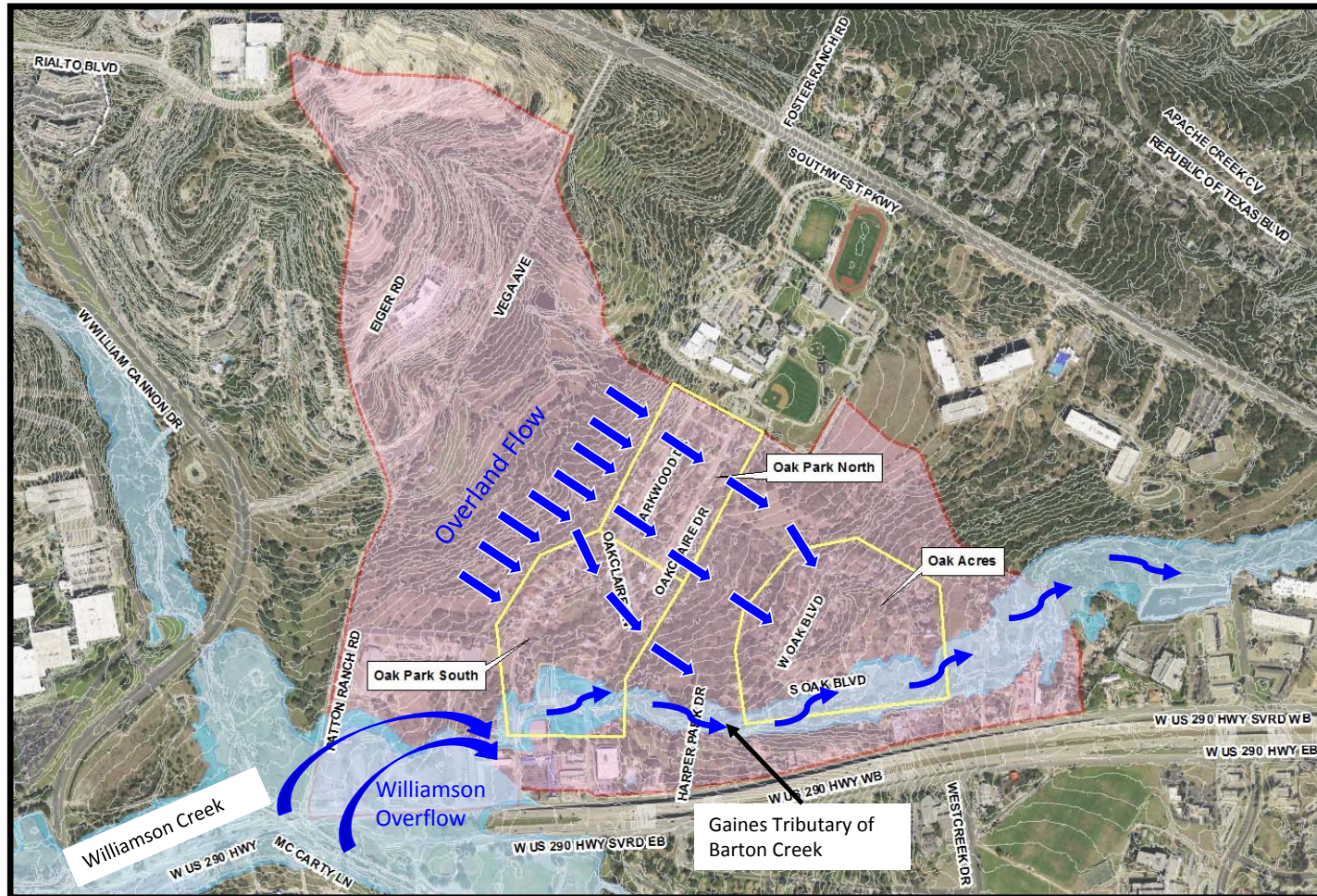


Close to 100 Parcels at Risk of Flooding

- No. 1 Local Flood Priority
- No. 20 Creek Flood Priority



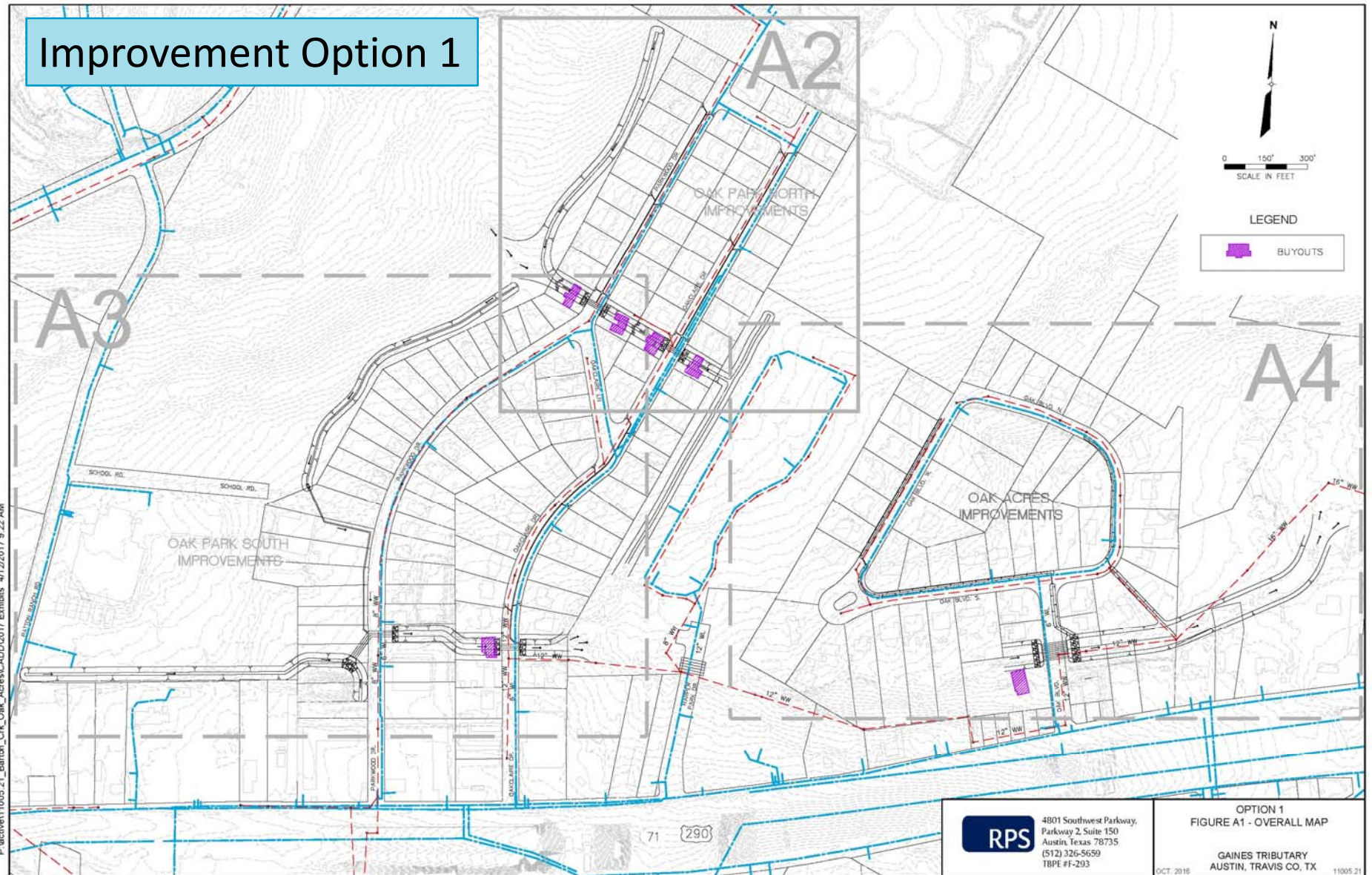
Flooding Sources



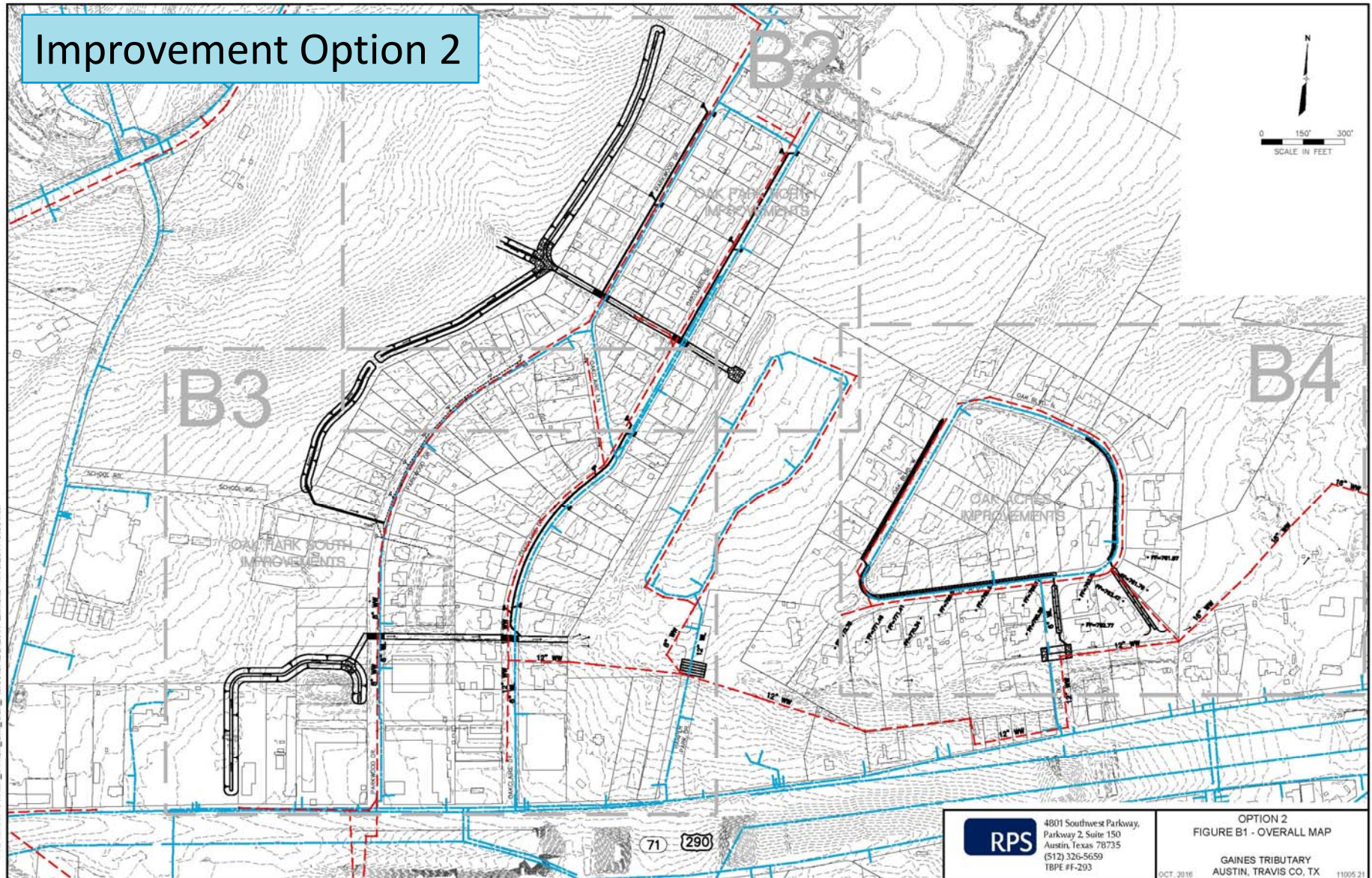
Preliminary Engineering Report

- **Goal:** Mitigate flooding from local runoff and Williamson overflow to meet DCM criteria
- Two design options
 - Option 1 requires some property acquisition
 - Option 2 requires easement and minimal property acquisition

Improvement Option 1

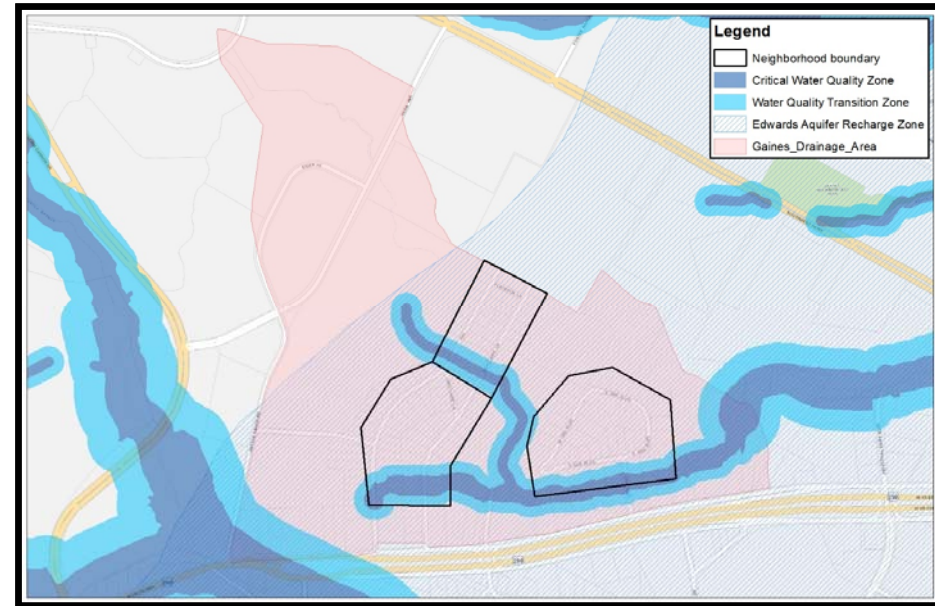


Improvement Option 2



Considerations

- Water Quality Integration
- Permitting
 - Low water crossing improvements
 - Channel improvements
 - Swales, storm drains
 - Roadside ditches
 - Critical Environmental Features
- Option selection balances cost, property acquisition, environmental impacts



Onion Creek Floodplain and Flood Hazard Mitigation Study

- See supplemental PowerPoint



Future Meetings

- Project details for additional projects
- Problem scores, funding and benefits by District in:
 - Past projects
 - Ongoing projects
 - Bond projects
- Alignment with other department bond projects – GIS analysis
 - 2016 Mobility Bond
 - 2018 Bond Needs Assessment
- Other?

Questions? Next Steps?

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