

5 Year Pavement Maintenance Plan FY 22 - 26



2021 Pflugerville Resident Survey Report

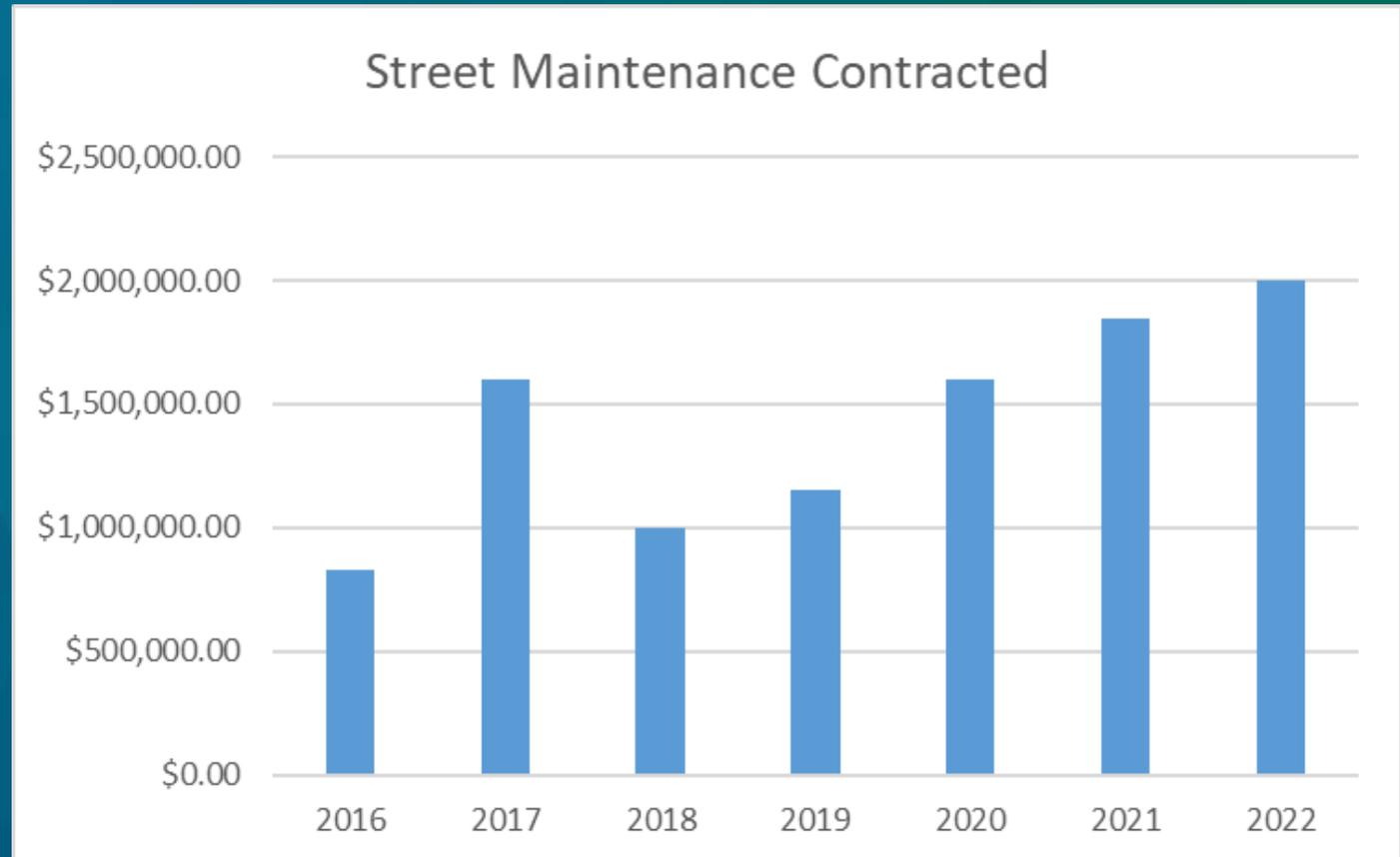
*City Services That Should Receive the Most Emphasis Over the Next Two Years -
"Maintenance of City streets, drainage, and sidewalks – 52% most important"*



Pavement Maintenance History

- **FY 2015: Heatherwilde Blvd. (Pfennig Ln. to Black Locust)**
- **FY 2016: Kennemer Drive**
- **FY 2017: Grand Avenue and Lynn Cove**
- **FY 2018: Railroad Ave. and CDBG Project**
- **FY 2019: Black Locust, Railroad Ave. and CDBG Project**
- **FY 2020: Heatherwilde Phase I**
- **FY 2021: Heatherwilde Phase II**

Roadway Budgets



Pavement Evaluation Recap

- 2015
 - Staff worked with Fugro Roadware to have Pavement Evaluation conducted.
- 2019
 - Staff worked with Data Transfer Solutions to have Pavement Evaluation conducted.
- Results/Outcomes
 - Overall Condition Index (OCI)
 - Network Overall Condition Index
 - Pavement Maintenance Plan development and implementation



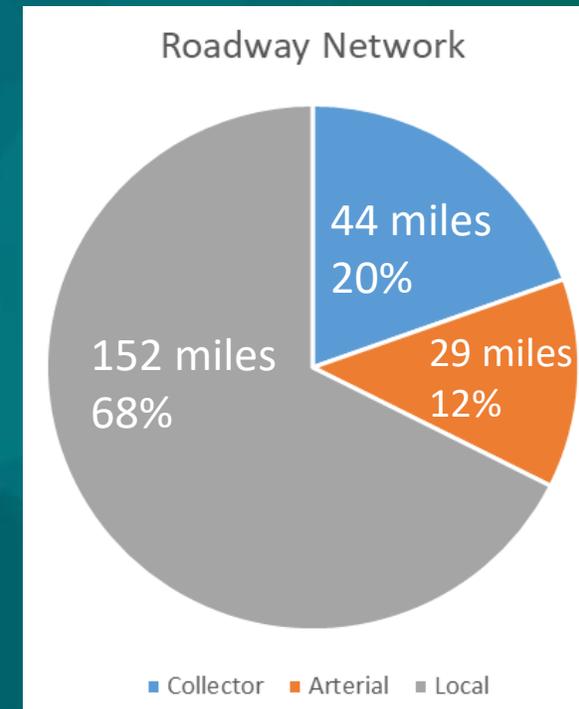
Pavement Maintenance Program Update and Evaluation Review 2019

Contracted Data Transfer Solutions to perform evaluation and assessment

- a condition rating of each road surveyed
- Pavement Maintenance and Preservation Methods

Roadway Network System Evaluated

Item	Description	Miles	% of Mileage
1	Asphalt Segments with OCI	230.74	98.93%
2	Concrete Segments with OCI	2.13	0.85%
3	Not Collected – Gravel Segments	0.26	0.11%
4	Not Collected – Does not Exist	0.24	0.10%
5	Not Collected – Construction	0.01	0.01%
	TOTAL WITH OCI	232.87	97.78
	TOTAL WITHOUT OCI	.51	0.22%
	Total	233.38	100%



City of Pflugerville, TX - OCI Distribution Map 2019



Network Overall Condition Index

Overall Condition Index (OCI) Range	Condition Description	Percent of Network	Legend
86-100	Good	37.73%	
71-85	Satisfactory	43.69%	
56-70	Fair	13.16%	
41-55	Poor	2.90%	
26-40	Very Poor	2.33%	
11-25	Serious	0.19%	
0-10	Failed	0.00%	
Total		100%	

Figure 23: City of Pflugerville, TX OCI Ranges by Percent

Legend

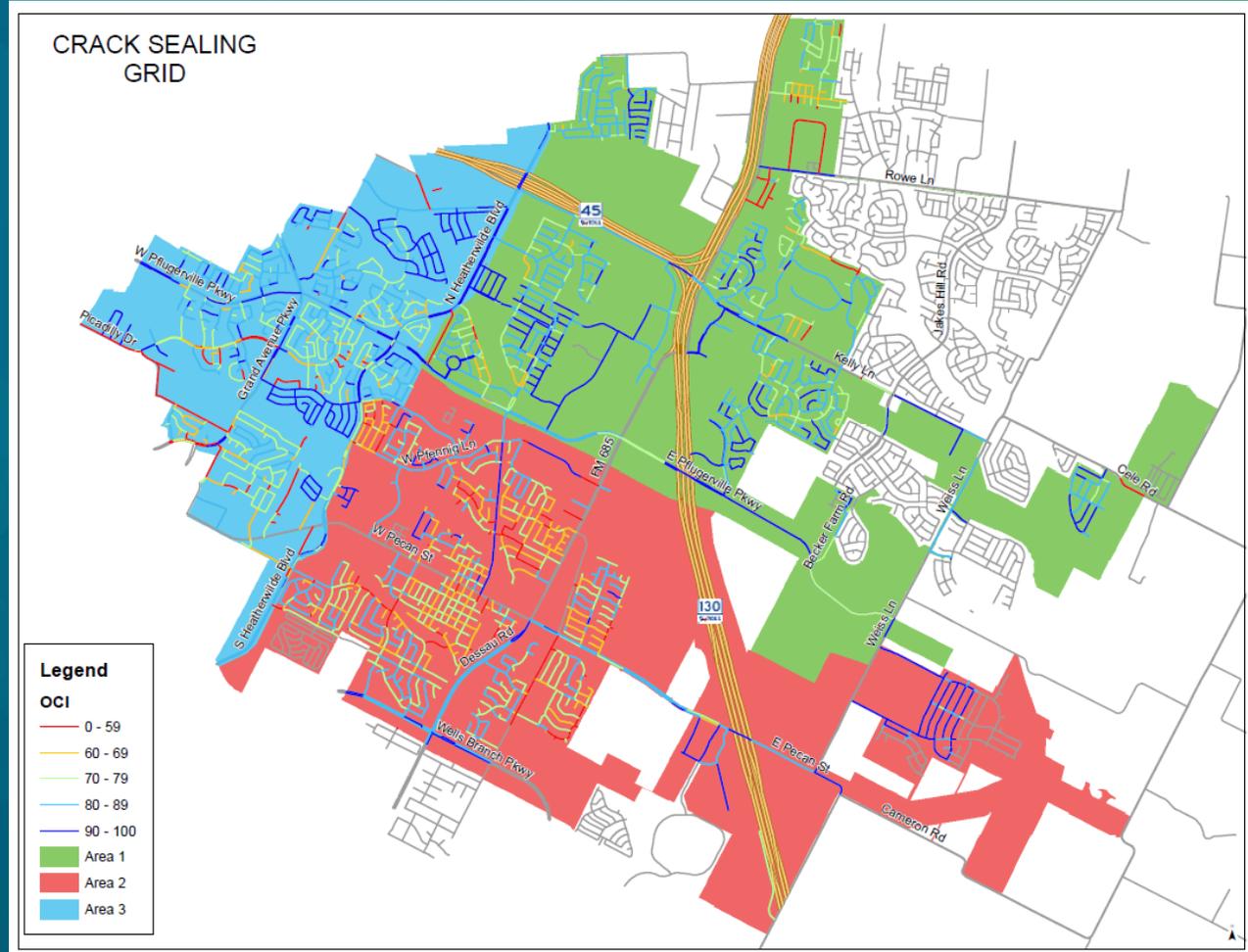
- Good
- Satisfactory
- Fair
- Poor
- Very Poor
- Serious
- Failed



Pavement Maintenance Program Update and 5 Year Approach

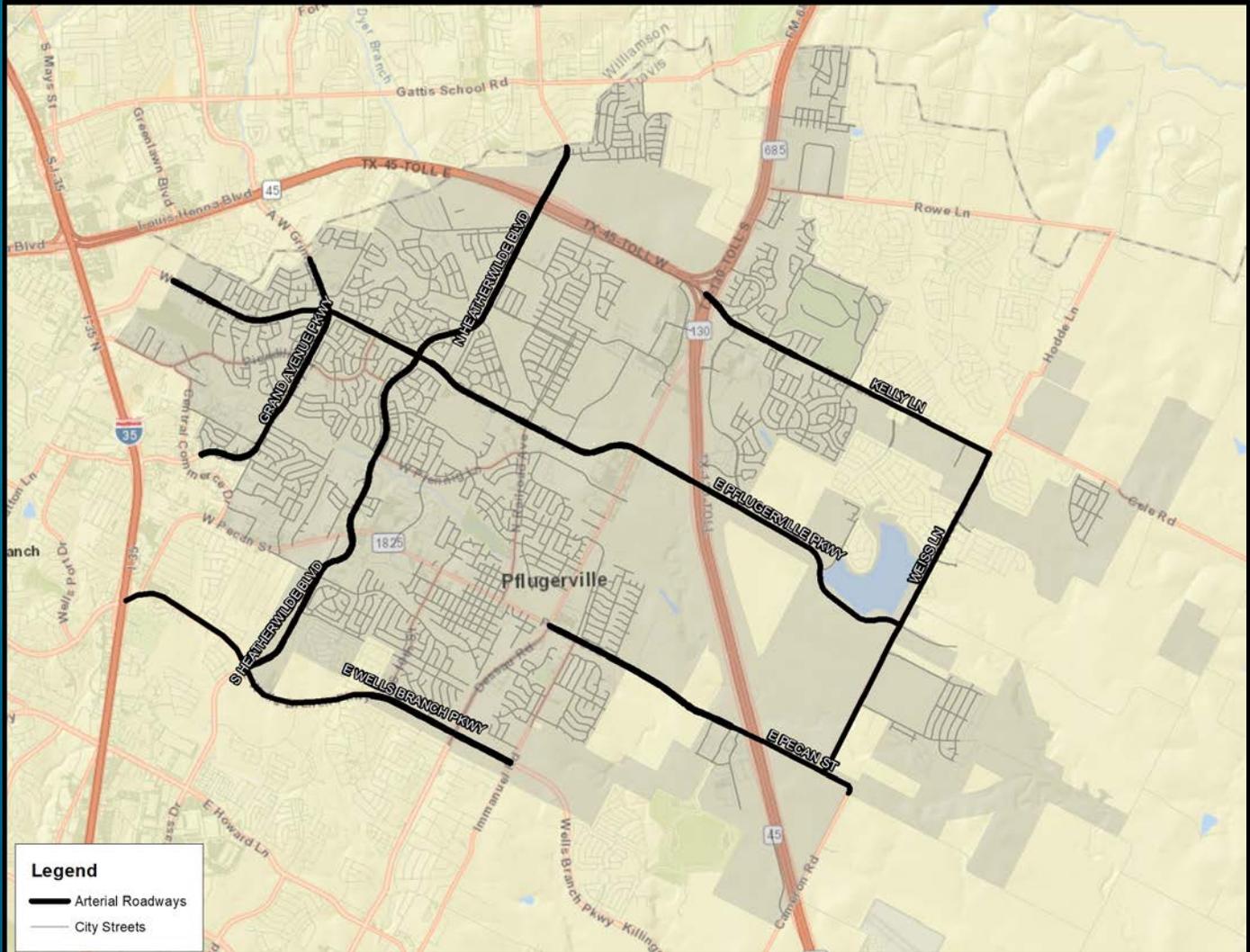
Treatment Type	Activity
Preservation	Crack Seal
Preservation	HA5 Seal
Preservation	Chip Seal
Rehabilitation	Patching/Hot In-Place Recycling
Rehabilitation	Mill and Fill Overlay
Reconstruction	Full Reconstruction

Crack Sealing Zones FY 22 - 26

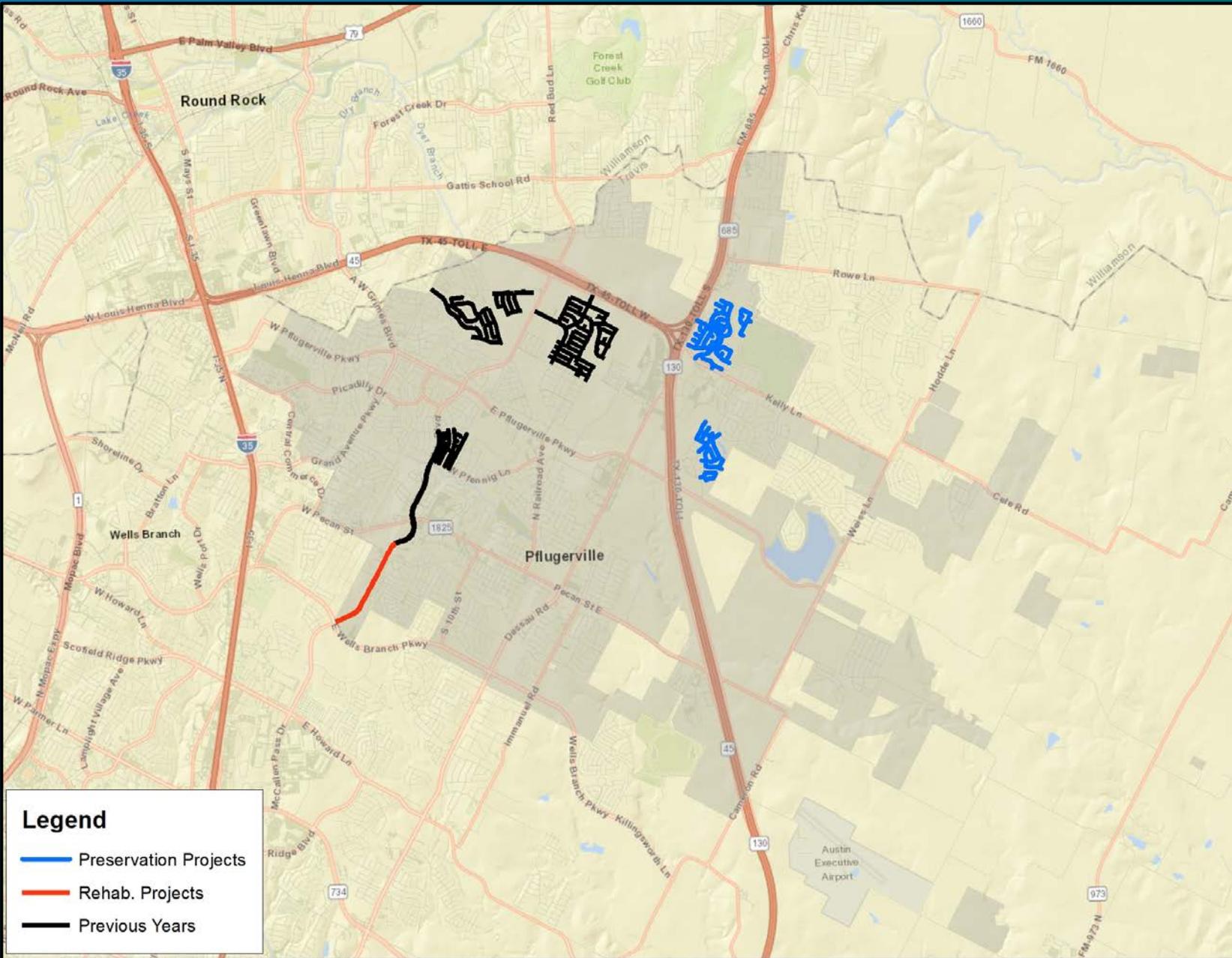


Pavement Maintenance Program Update and 5 Year Approach

- Utilizing the 5-Year Current Budget Scenario (Optimization)
 - 20% of budget to preservation
 - 80% of budget to Rehabilitation
 - This scenario reflects an annual increase in budget to account for increased costs in operations.
- Arterials – Every 10 years
- Staff's goal is to have a robust Pavement Maintenance Program in place that is continuously effective, efficient and proactively seeks out opportunities for rehabilitation and preservation of the City's roadways.



FY 2022

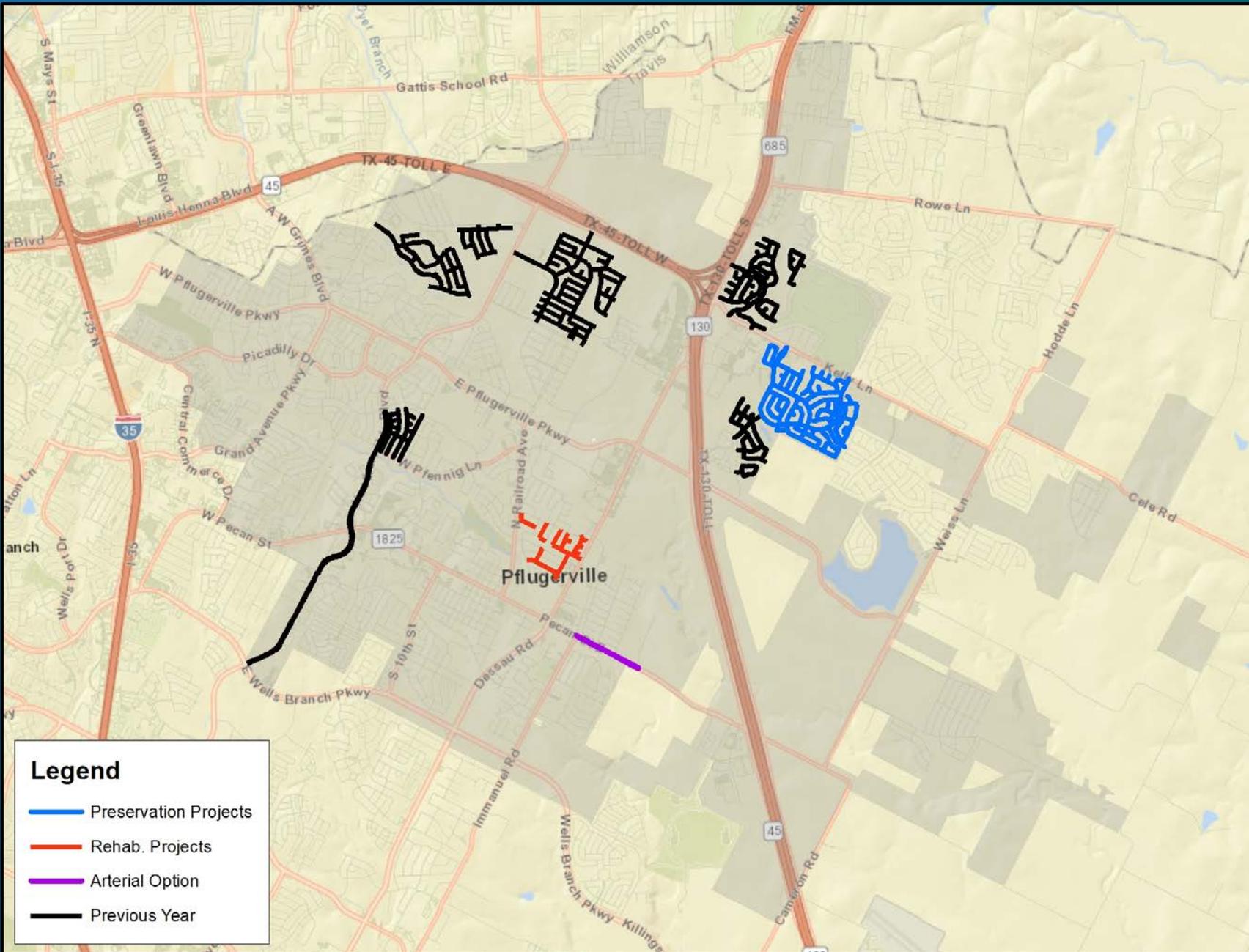


- Budget = \$2,000,000
 - 20% Preservation = \$400,000
 - 80% Rehabilitation = \$1,600,000
-
- Rehabilitation - \$1,600,000
 - Heatherwilde Boulevard (301 S. Heatherwilde Blvd – Wells Branch)
 - Preservation - \$400,000
 - HA5 at Falcon Pointe North (North of Kelly Lane)
 - HA5 at Falcon Pointe Southwest (West of Falcon Pointe Blvd.)

Total = \$2,000,000



FY 2023

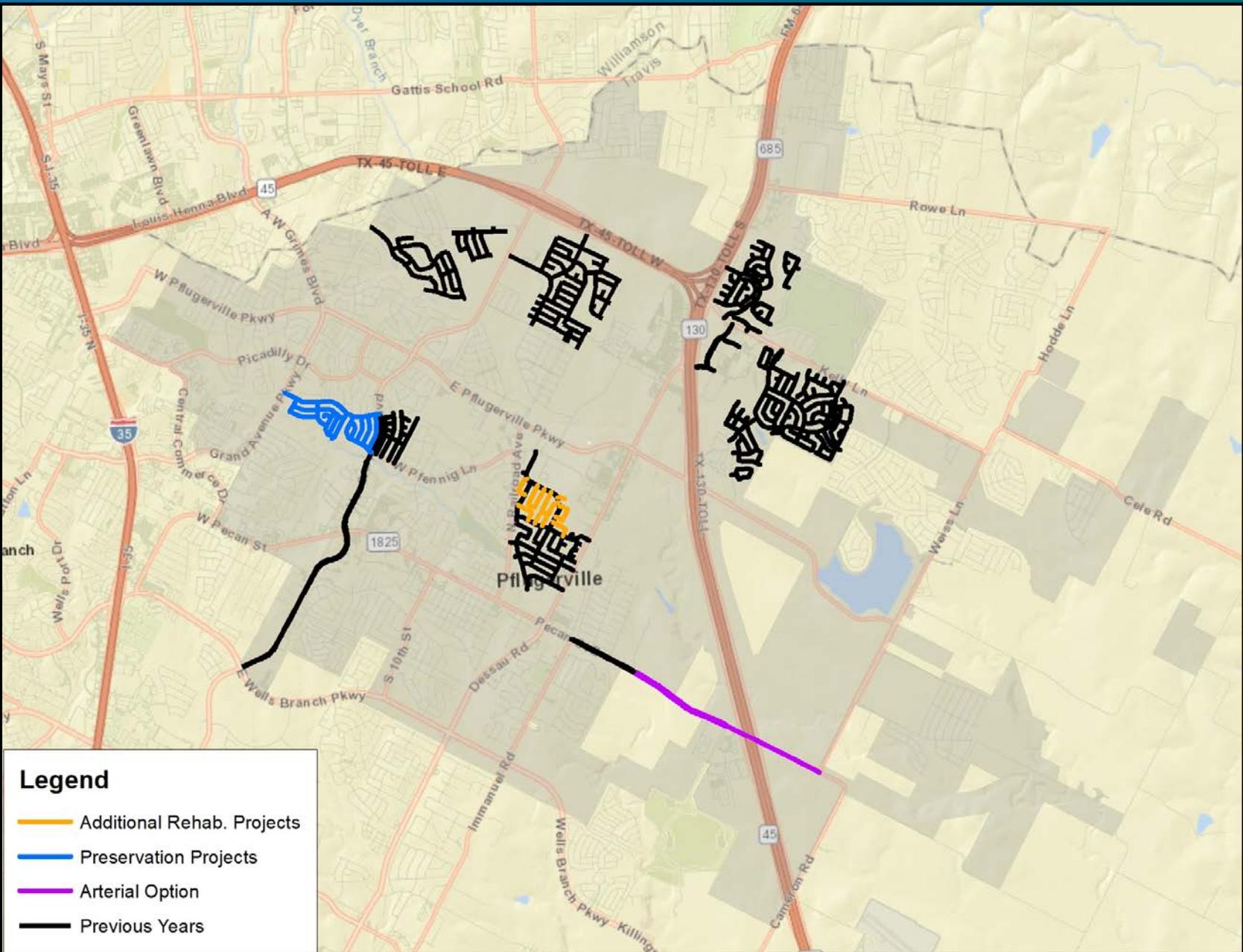


- Budget = **\$2,500,000**
 - 20% Preservation = \$440,000
 - 80% Rehabilitation = \$2,500,000
- Rehabilitation - \$2,040,000
 - Saxony I Residential Roadway Project
- Arterial Option
 - Pecan (Immanuel – West of Amazon) = \$1,242,000
- Preservation
 - HA5 at Falcon Point Southwest (Portion) (East of Falcon Pointe Blvd.) = \$440,000
- **Total = \$2,500,000**
w/arterial \$3,722,000
- **5 year cycle – Pavement Condition Evaluation - \$100,000**



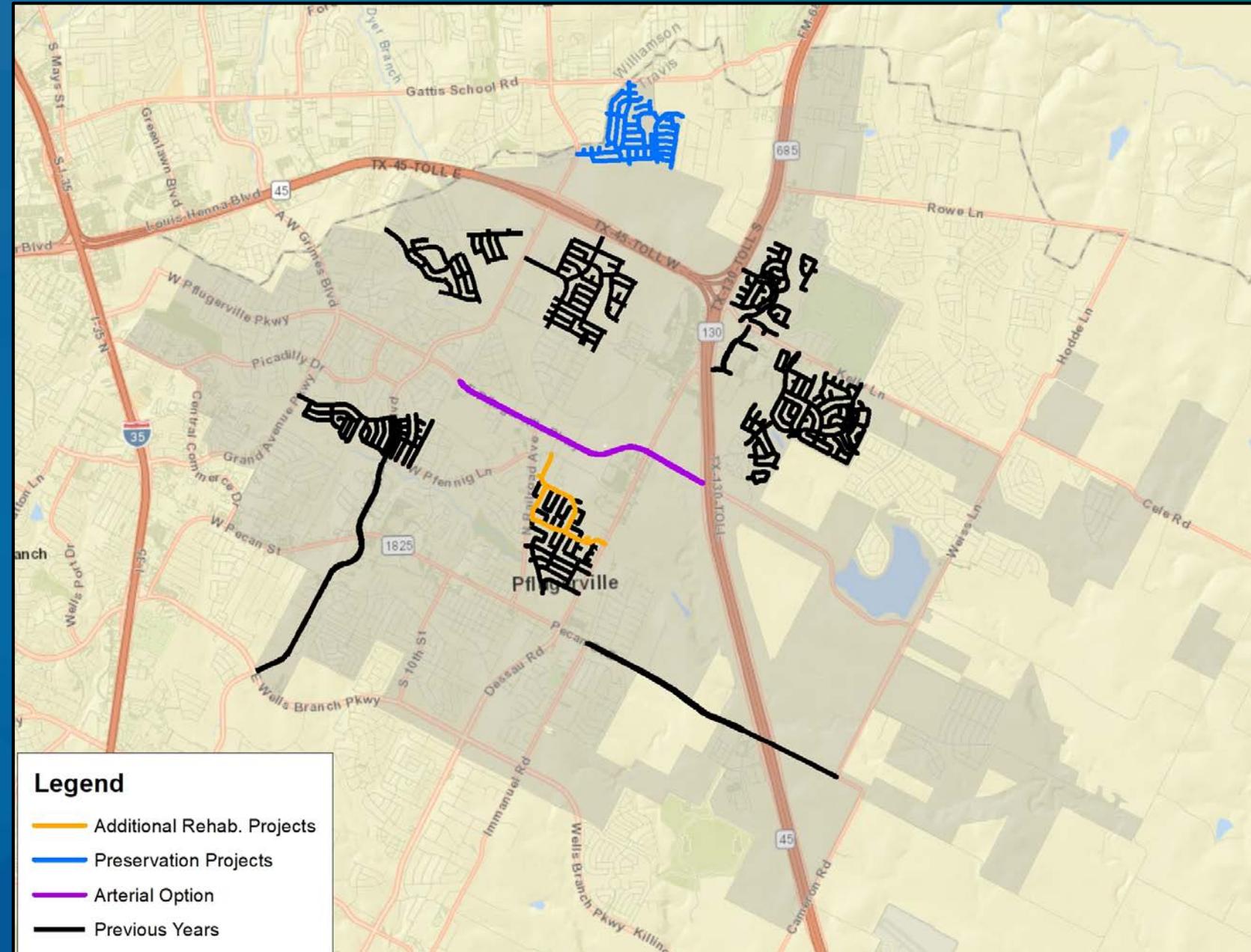
FY 2024

- Budget = **\$2,000,000**
 - 20% Preservation = \$400,000
 - 80% Rehabilitation = \$1,600,000
- Rehabilitation - \$1,600,000
 - Saxony II Residential Roadway Project
- Arterial Option
 - Pecan (Amazon to Weiss) = \$1,571,627
- Preservation - \$300,000
 - HA5 at Heatherwilde/Windermere
- **Total = \$2,000,000**
w/ Arterial \$4,700,000

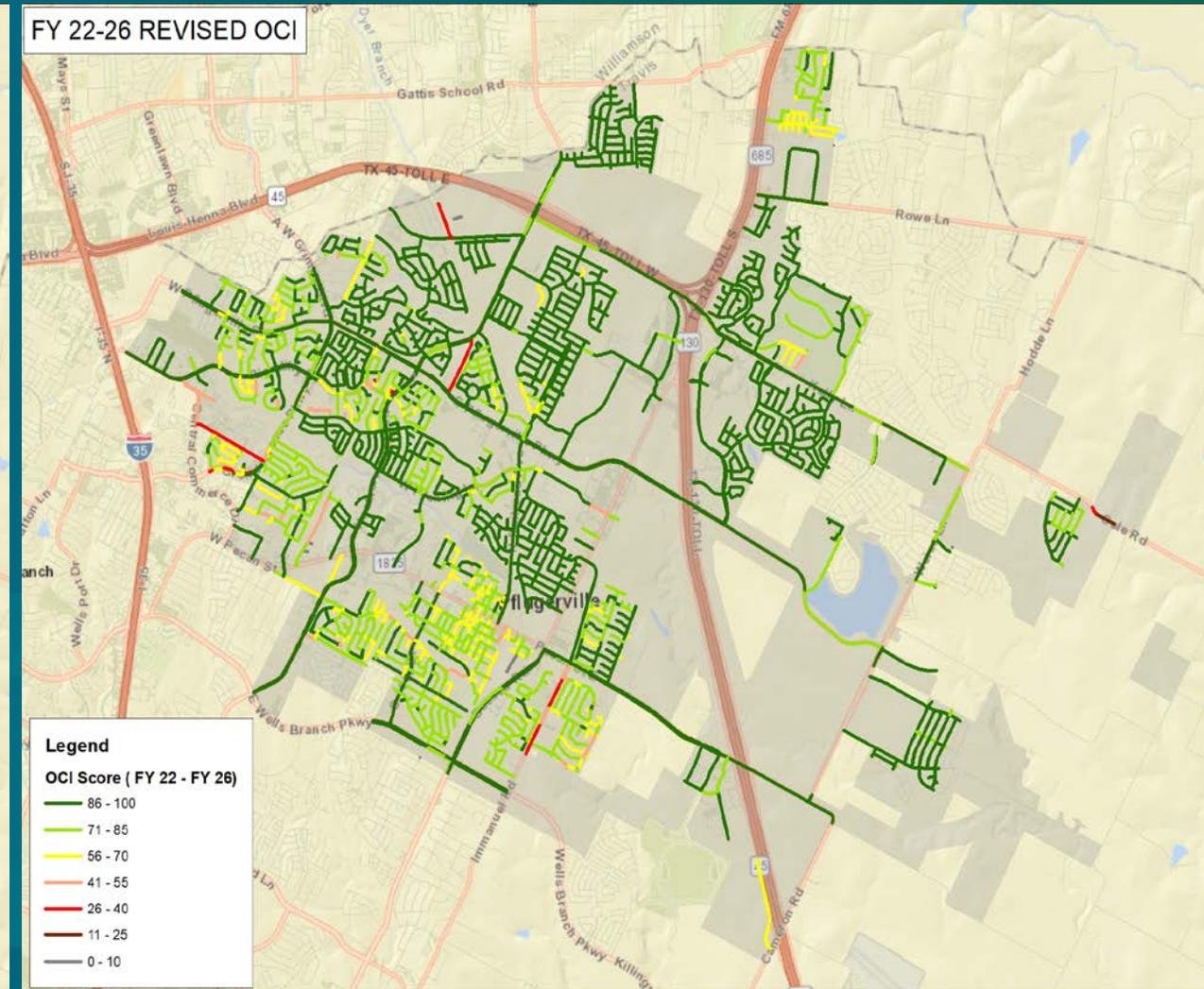
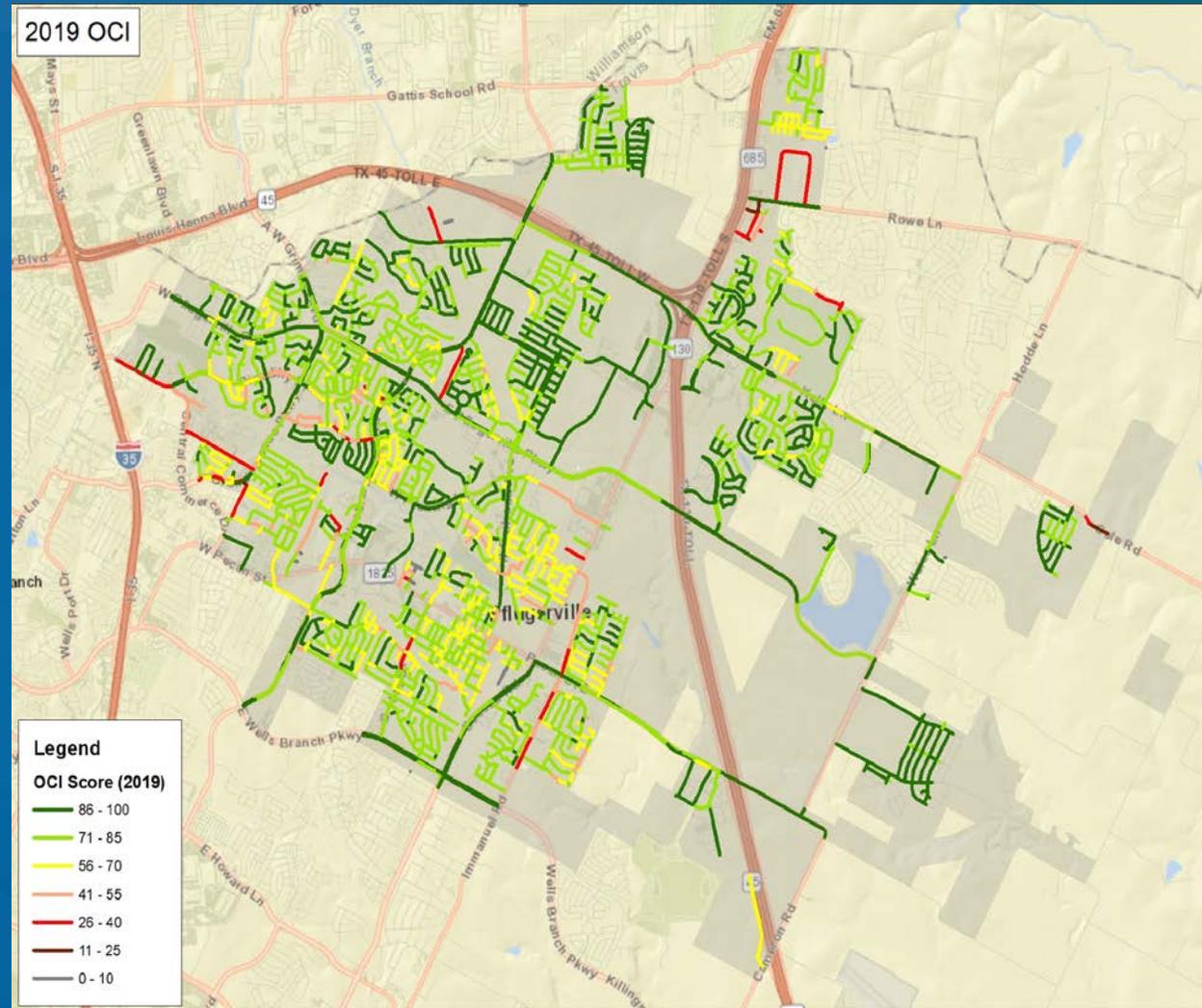


FY 2025

- Budget = **\$2,178,751**
 - 20% Preservation = \$442,786
 - 80% Rehabilitation = \$1,735,965
- Rehabilitation - \$1,735,965
 - Saxony III Residential Roadway Project
- Arterial Option
 - Pflugerville Pkwy (130 – Wilke) = \$2,747,304
- Preservation - \$442,786
 - HA5 at Greenridge and Penley Park
- **Total = \$2,178,751**
w/Arterial = \$3,750,378

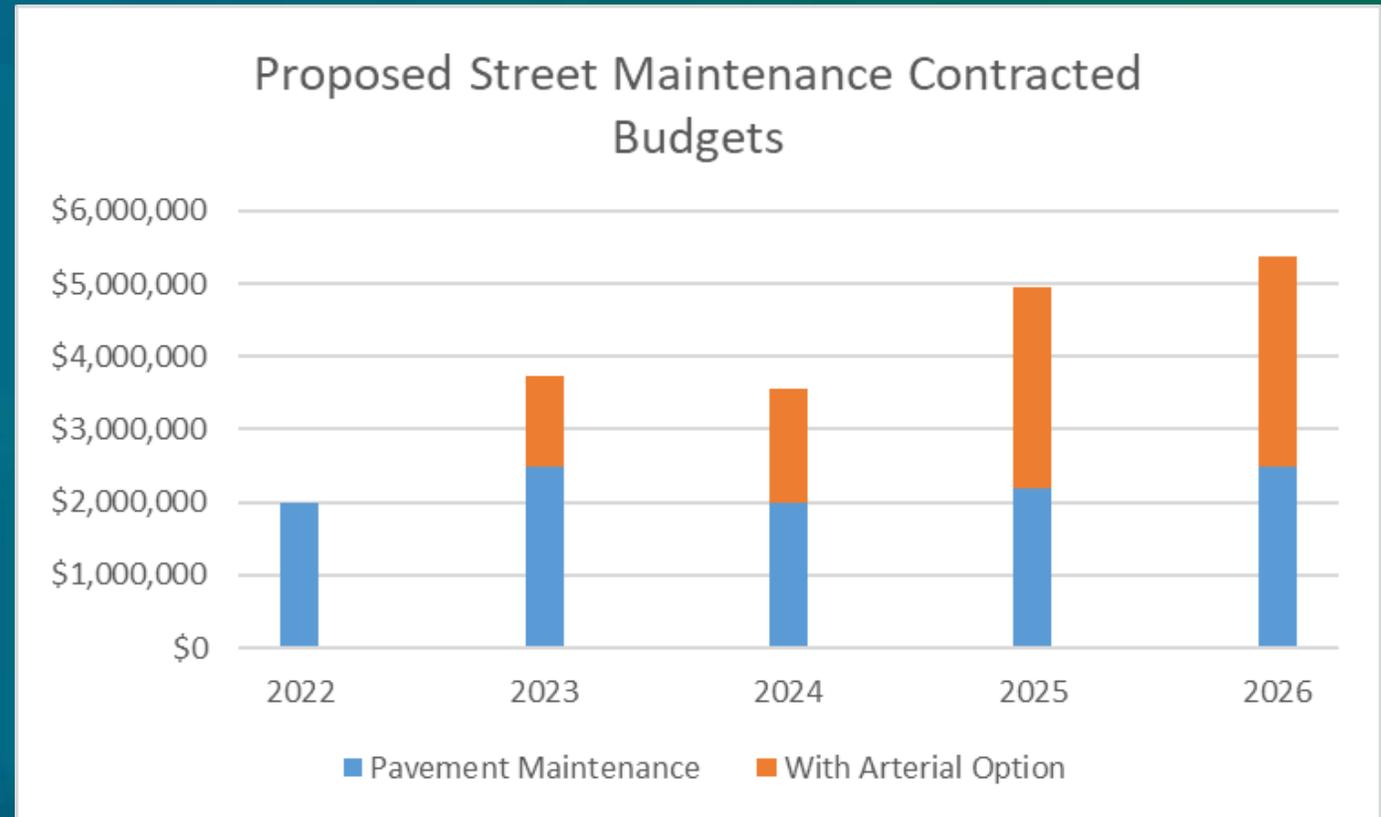


Pavement Conditions Improved 2026



Summary and Moving Forward

- Fiscal Year Goals
 - Proactive operation, collaborative planning, utilizing resources
 - Pavement Maintenance Software purchase FY23
- What to expect with progress in motion
 - ✓ Continuous preparation, timeliness, decisive and sound action
 - ✓ Routine updates to staff and the Public
 - ✓ Pavement Maintenance webpage
 - ✓ Continued Education and training



5 Year Pavement Maintenance Plan FY 22 - 26



Questions and Comments?

