

TACERA 2023

SESSION A

Home Grown Pavement Management

Comal County - John Doege

“A GOAL WITHOUT A PLAN IS JUST A WISH.”

ANTOINE DE SAINT-EXUPERY

- ❑ The Plan to Have a Plan
- ❑ Software Procurement (2013)
- ❑ GIS Team Development
- ❑ Software Development



“A GOAL WITHOUT A PLAN IS JUST A WISH.”

ANTOINE DE SAINT-EXUPERY

The Plan to Have a Plan

Software Procurement (2013)

GIS Team Development

Software Development



Data Tools

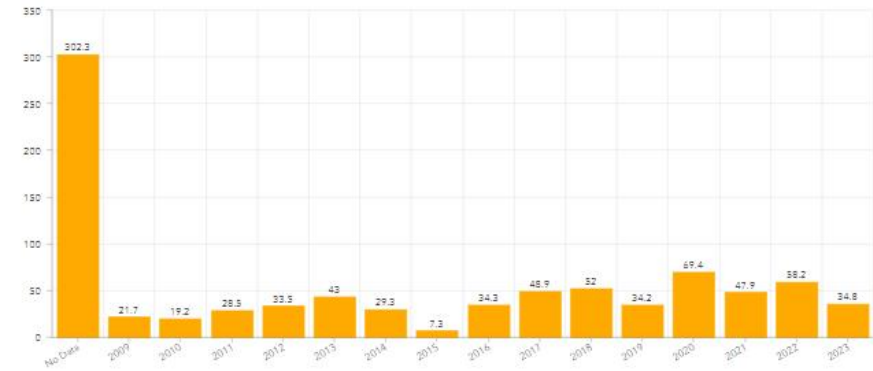
Historical Evaluation

Inspections and PCI

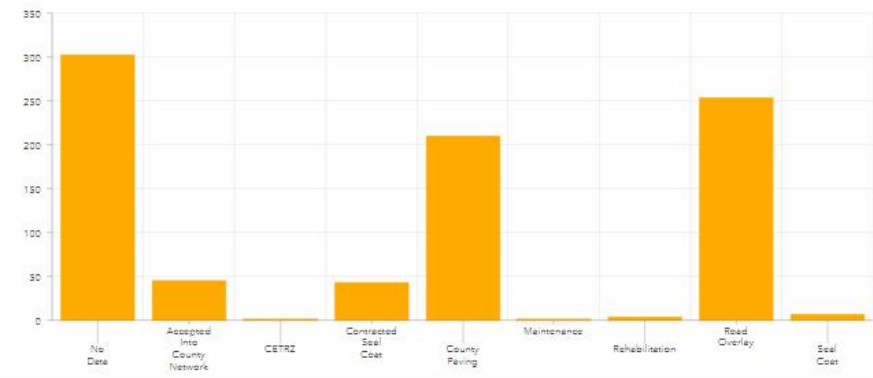
Budget

Work Order Mgmt.

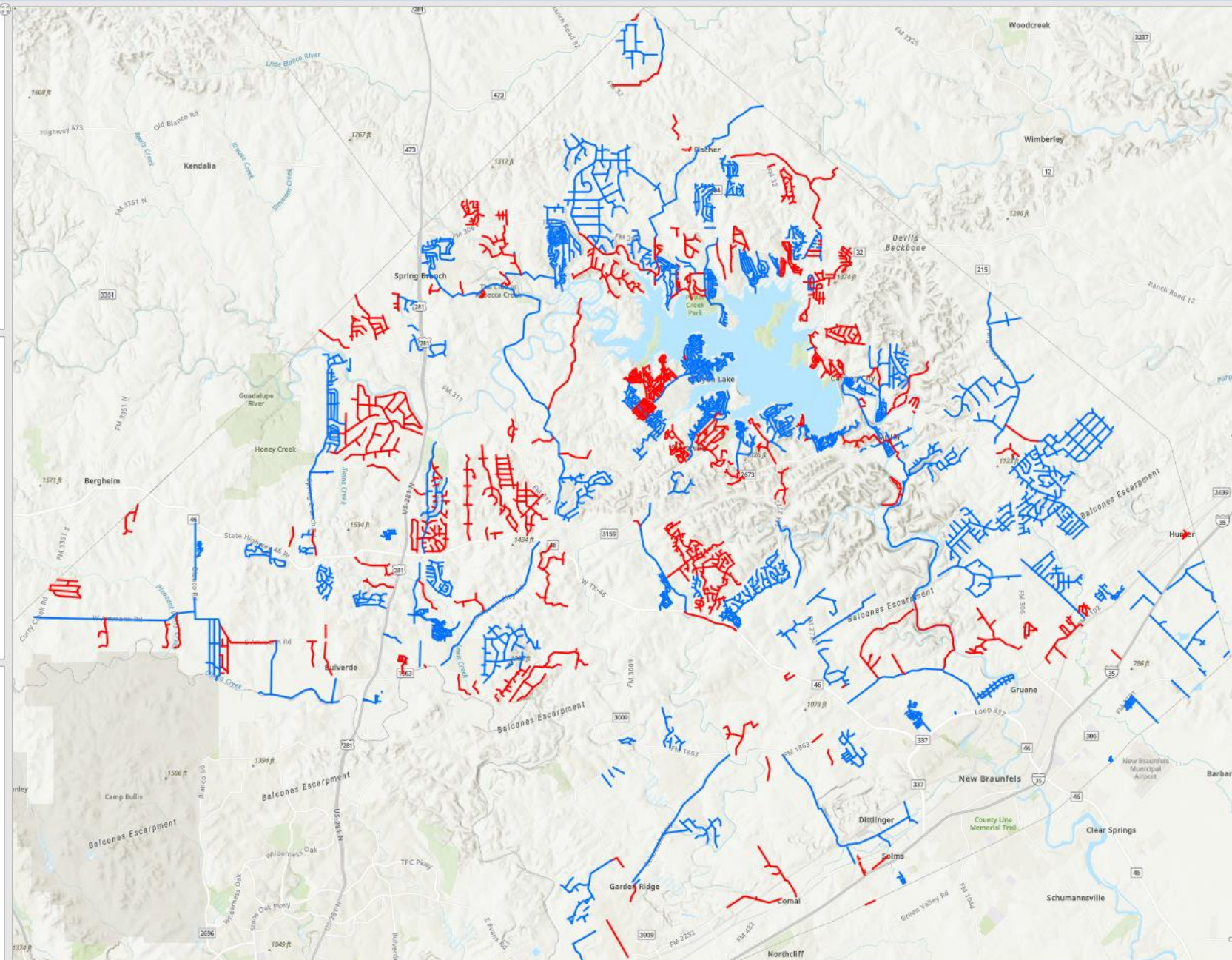
By the Year



Type of Construction



Miles of Roads
860.7



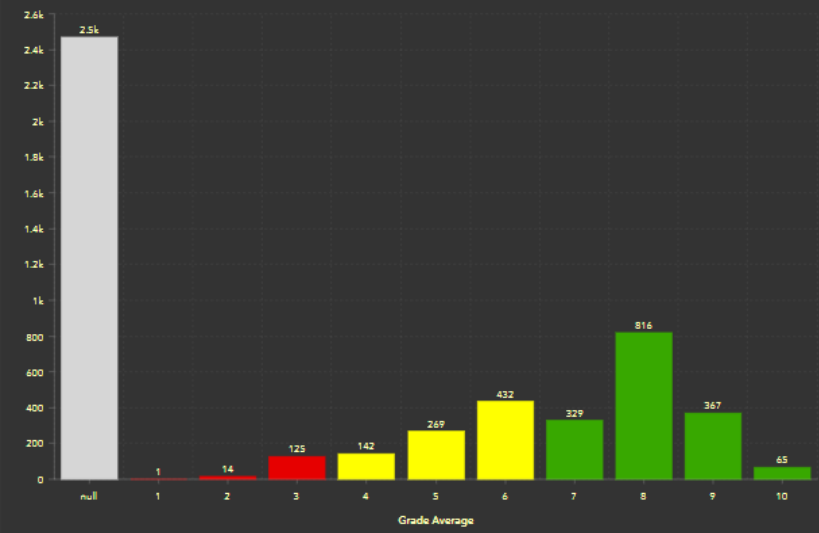
2.56k

segments complete of 5,030

50.89%

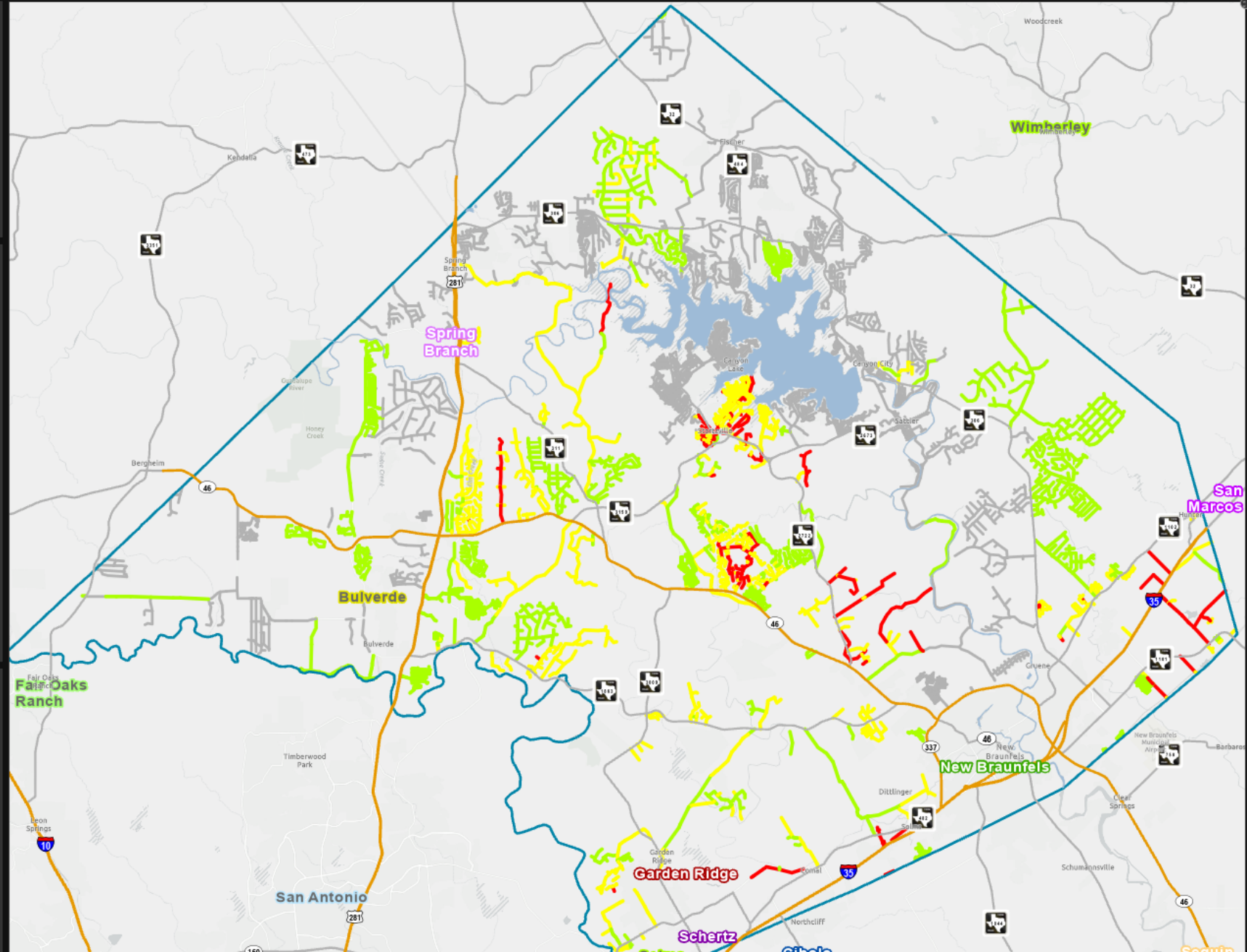
percent complete

Filter by Grade



Miles Inspected

492.14



PARK SHORES - BOAT RAMP 22
CANYON LAKE SHORES
0.83 Day(s) to Complete

ABELS WAY
EDEN RANCH
3.50 Day(s) to Complete

ADAMS WAY
EDEN RANCH
1.40 Day(s) to Complete

DECKER DR
EDEN RANCH
2.06 Day(s) to Complete

EDEN ESTATES DR
EDEN RANCH
5.04 Day(s) to Complete

EDEN RANCH DR
EDEN RANCH
16.01 Day(s) to Complete

ELK RDG
EDEN RANCH
4.03 Day(s) to Complete

EVES SPRING DR
EDEN RANCH
4.47 Day(s) to Complete

EVES WAY
EDEN RANCH
0.66 Day(s) to Complete

FOX RDG
EDEN RANCH
1.05 Day(s) to Complete

MAVERICK
EDEN RANCH
3.01 Day(s) to Complete

PALOMA DR
EDEN RANCH
4.90 Day(s) to Complete

SIERRA RDG
EDEN RANCH
1.67 Day(s) to Complete

TEAL RDG
EDEN RANCH
0.88 Day(s) to Complete

VISTA RDG
EDEN RANCH
1.69 Day(s) to Complete

ELM DR
GARDEN OAKS
0.70 Day(s) to Complete

GARDEN OAKS DR
GARDEN OAKS
6.83 Day(s) to Complete

SPANISH OAK DR - GARDEN OAKS
GARDEN OAKS
0.70 Day(s) to Complete

DAMAR CV
HIDDEN VALLEY ESTATES
0.67 Day(s) to Complete

DAMAR DR
HIDDEN VALLEY ESTATES
0.63 Day(s) to Complete

HIDDEN DR
HIDDEN VALLEY ESTATES
1.38 Day(s) to Complete

BLACKBIRD DR
MYSTIC SHORES
5.15 Day(s) to Complete

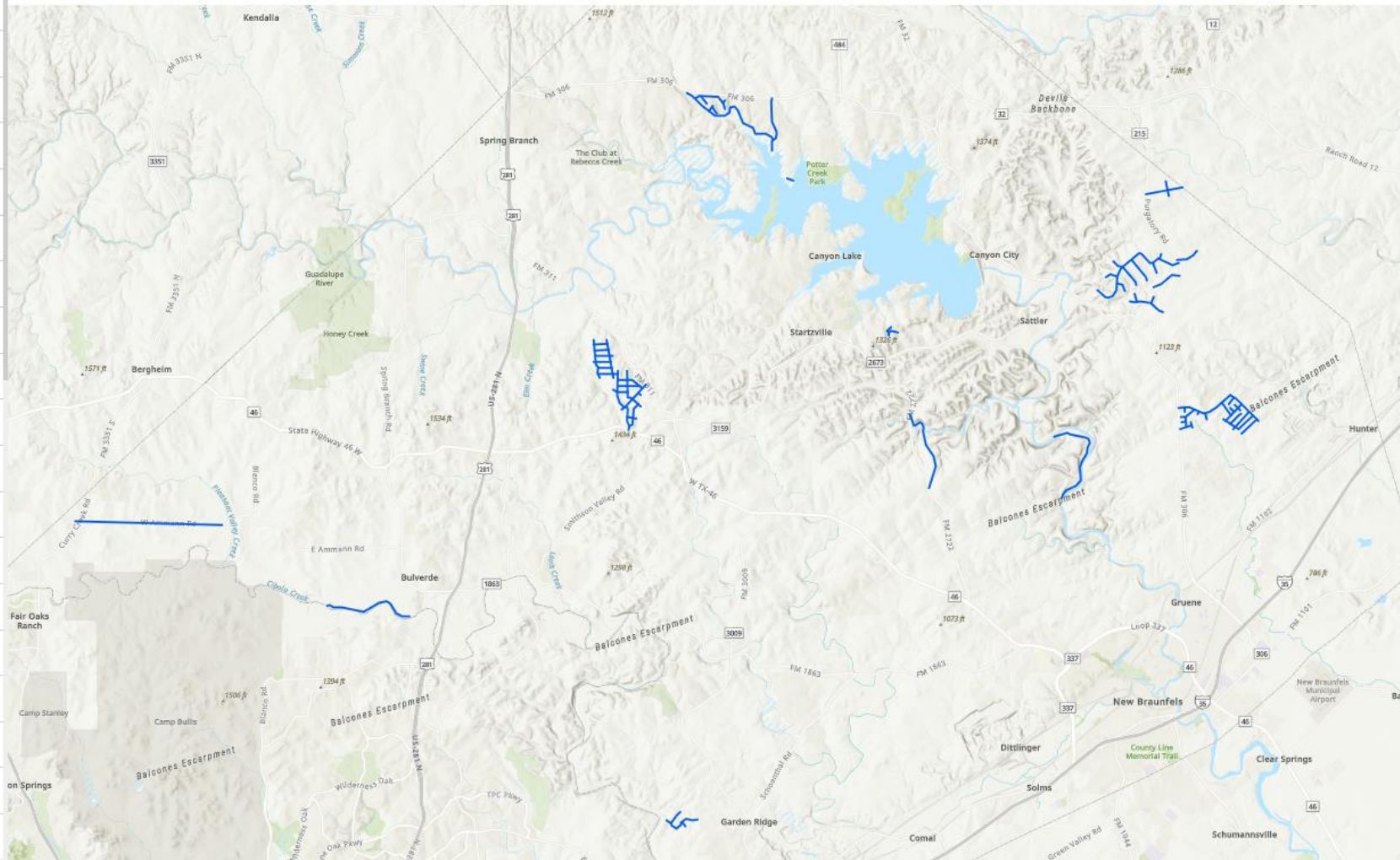
CRANE CIR
MYSTIC SHORES
0.99 Day(s) to Complete

FINCH PLACE
MYSTIC SHORES
0.97 Day(s) to Complete

HERON PASS
MYSTIC SHORES
1.34 Day(s) to Complete

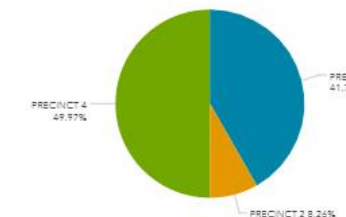
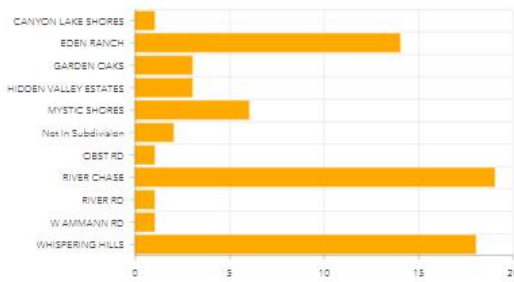
KIWI LN
MYSTIC SHORES
0.83 Day(s) to Complete

2023 Paving Plan



Esri, NASA, NOAA, USGS | Texas Parks & Wildlife, COMANOP, Esri, HERE, Garmin, FourSquare, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, USDA

Powered by Esri



Number of Roads

69

Length of Roads

269,361.792 Ft

51.015 Miles

Estimated Asphalt Tonnage

63,013.885

\$4,505,492.787 based on \$71.50/ton

Estimated CSS 1H

32,921.997

\$67,490.093 based on 2.05/gallon

Estimated Failure Repair Work

\$49,293.208

Thoroughfare = 2.65 ~ All other + .65 Factor

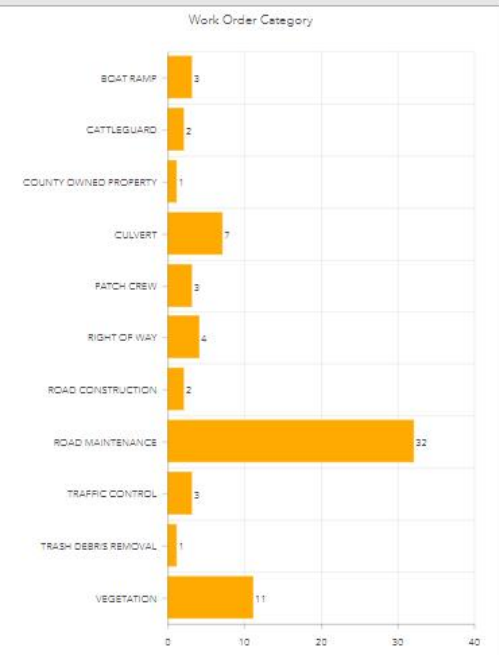
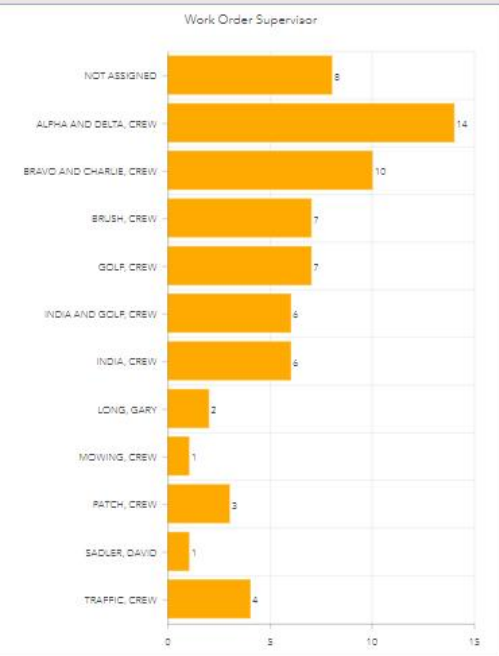
Shoulder Up Cost

\$204,041.557

.7575 per foot or 4K per Mile

Estimated Time to Complete (Days)

252.1



- 134765
Clear Trees/Brush in ROW
10/10/2023
Crystal Heights
[Link to Cityworks](#)
- 134751
Apply Herbicide
10/09/2023
Myatic shores
[Link to Cityworks](#)
- 134750
Apply Herbicide
10/09/2023
[Link to Cityworks](#)
- 134744
Road Sweeping
10/06/2023
[Link to Cityworks](#)
- 134743
Road Sweeping
10/06/2023
[Link to Cityworks](#)
- 134732
Clear Trees/Brush in ROW
10/05/2023
1450 W lakeside Dr.
[Link to Cityworks](#)
- 134722
Road Sweeping
10/05/2023
RIVER RD
[Link to Cityworks](#)
- 134716
Remove Debris
10/04/2023
3025 BUNKER ST
[Link to Cityworks](#)
- 134705
Conduct Traffic Count/ADT
10/03/2023
VESTIGE BEND
[Link to Cityworks](#)
- 134696
Road Edge Patch
10/02/2023
North Lake Estates
[Link to Cityworks](#)
- 134673
Boat Ramp Maintenance
09/27/2023
2078 CANYON LAKE DR
[Link to Cityworks](#)
- 134671
Boat Ramp Improvements
09/27/2023
808 PARK SHORES
[Link to Cityworks](#)
- 134670
General Maintenance
09/27/2023
Jumbo Evans Pkwy
[Link to Cityworks](#)
- 134662
Add Raised Road Reflectors
09/26/2023
Eden Ranch Dr.
[Link to Cityworks](#)
- 134645
Road Patch
09/25/2023
CRANES MILL RD
[Link to Cityworks](#)
- 134625
Failure Repair
09/19/2023
1439 Acecia
[Link to Cityworks](#)

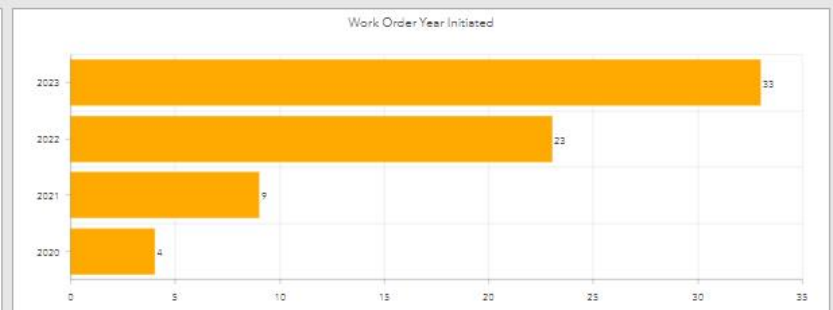
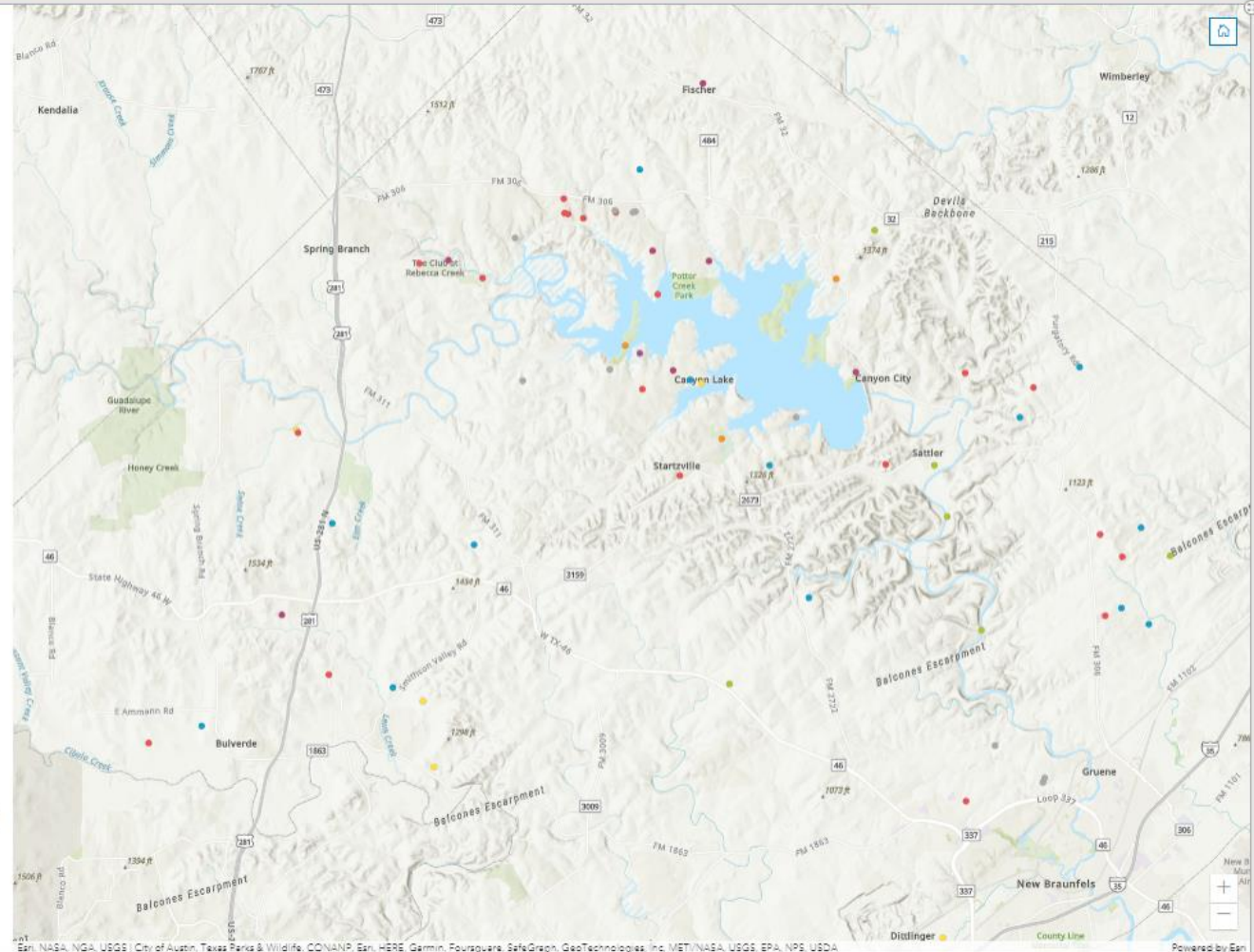
Work Orders Not Closed

SUPERVISOR

- ALPHA, CREW
- ALPHA AND CHARLIE, CREW
- ALPHA AND DELTA, CREW
- BRAVO, CREW
- BRAVO AND CHARLIE, CREW
- BRAVO AND DELTA, CREW
- BRUSH, CREW
- CHARLIE, CREW
- DELTA, CREW
- ECHO, CREW
- ECHO AND GOLF, CREW
- GOLF, CREW
- HERBICIDE, CREW
- INDIA, CREW
- INDIA AND ECHO, CREW
- INDIA AND GOLF, CREW
- INDIA AND MOWING, CREW
- MOWING, CREW
- PATCH, CREW
- TRAFFIC, CREW
- Other

Number of Work Order

69



COMAL COUNTY ROAD DEPARTMENT

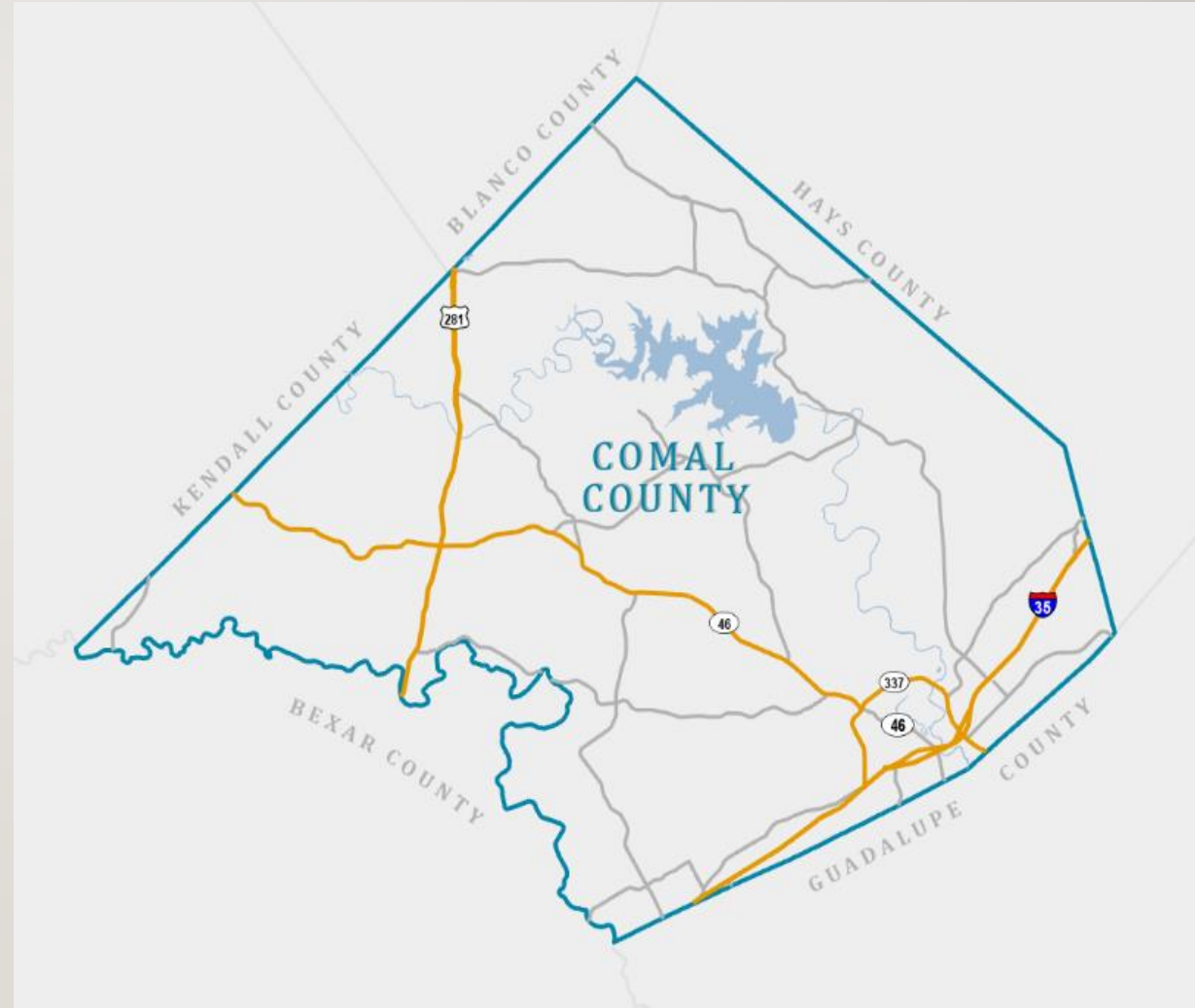
❑ 890 Miles of Roadway

❑ Asphalt Overlay Goals

❑ Current Ability: 50-52 Miles/Year

❑ 2-3 Year Plan: 62-70 Miles/Year

❑ 5-7 Year Plan: 75-85 Miles/Year



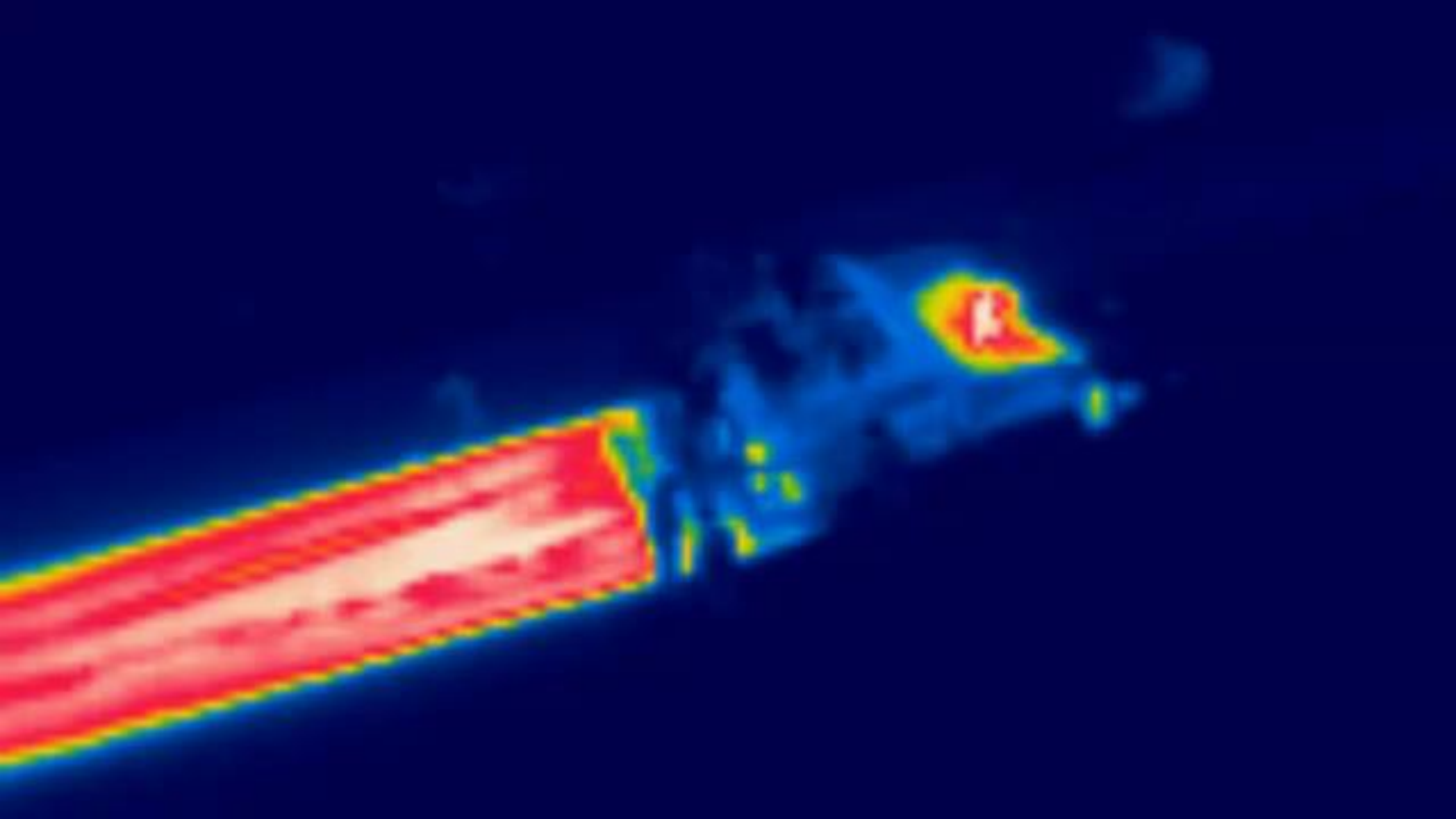


ROAD
WORK
AHEAD

RP-170e

ROADTEC

TEXAS



TACERA 2023

SESSION A

Home Grown Pavement Management

Comal County - John Doege

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