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**El Paso County  
Agenda Item Details**

**Item Title:** Public Works/Infrastructure - Presentation re. Paving Operations.

**Submitted By:** Fernando Hernandez, Director

**Department:** Infrastructure

**Department Phone Number:** 915-273-3330

**Subject:** Receive a presentation from the Public Works Department of Infrastructure Services on paving operations.

**Background:** Provide the Court and the new members a summary of the paving operations that the department does on a yearly basis. This is just an overview of the paving operations and the department's targeted goals.

**Fiscal Impact:** Fiscal Impact Historical  
N/A

Fiscal Impact Projected  
N/A

Long Account Number: Amount:

Long Account Number: Amount:

**Budget or Unbudgeted Match:**

**Recommendation:** No action needed

**Prior Action:**

**Strategic Plan:** Goal:  
  
null  
  
Objective:

**Strategic Plan Information:**  
**Estimated Time Needed  
For This Item:**



# DEPARTMENT OF INFRASTRUCTURE SERVICES

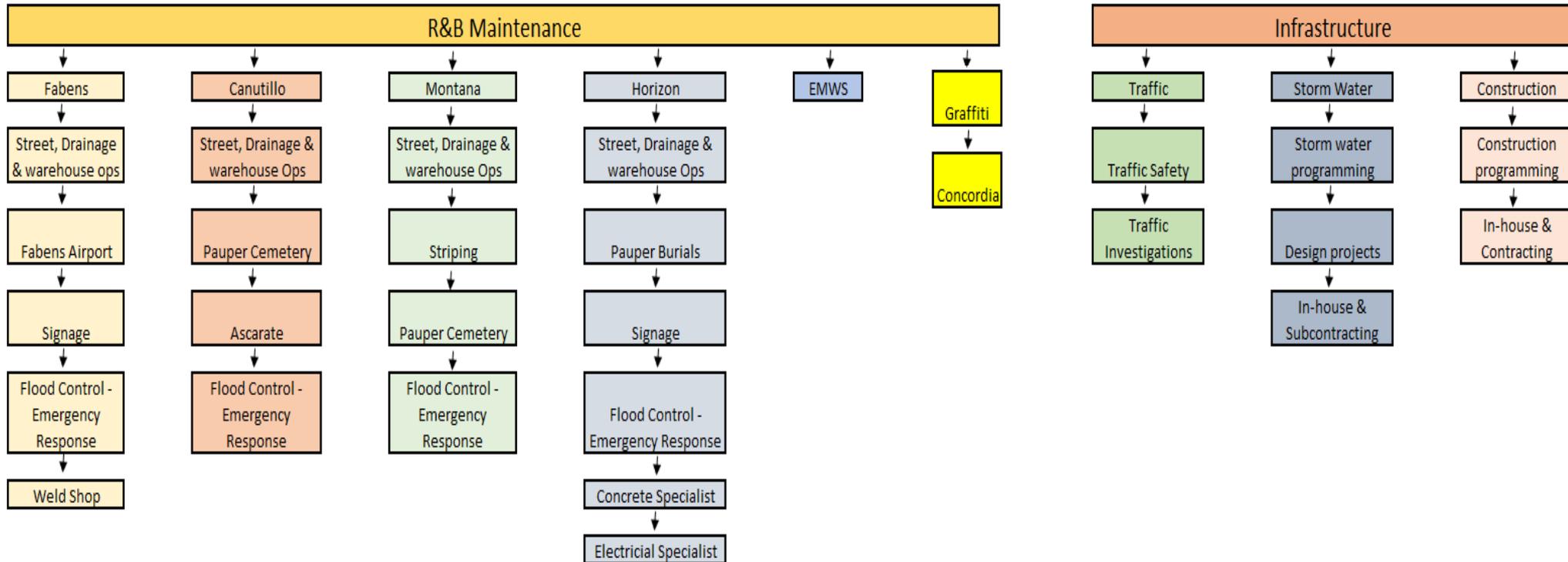
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# PAVEMENT PROGRAM

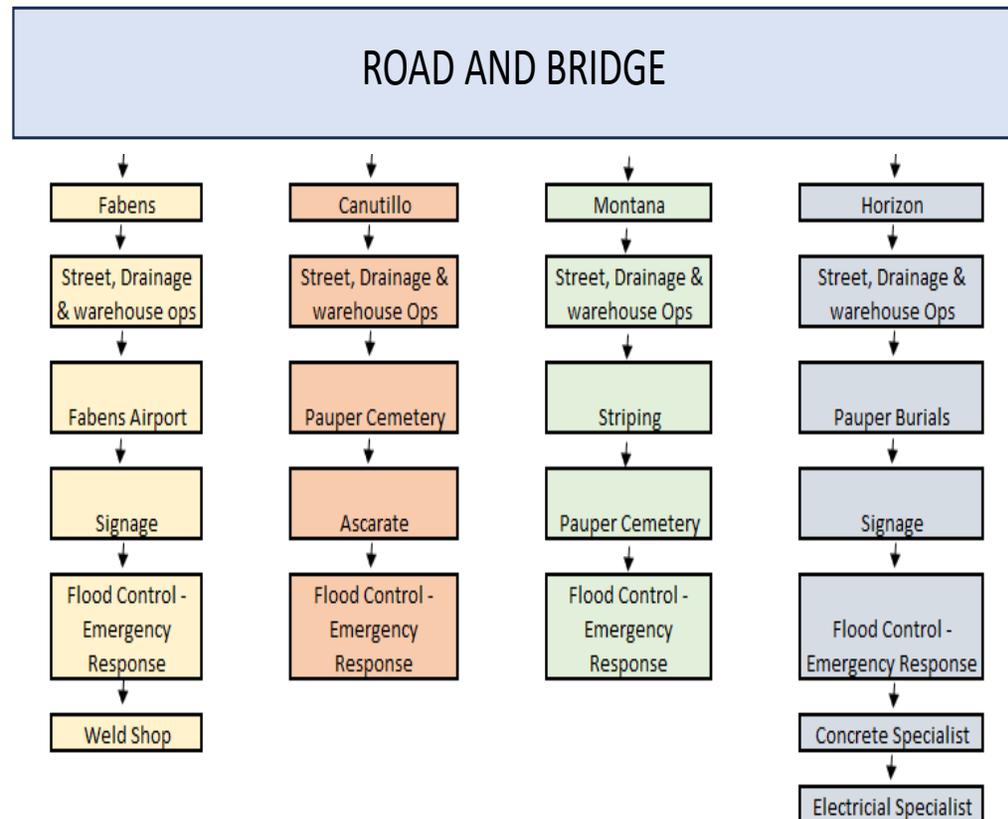
*A DIVISION OF PUBLIC WORKS – EL PASO COUNTY*

# DEPARTMENT OF INFRASTRUCTURE SERVICES

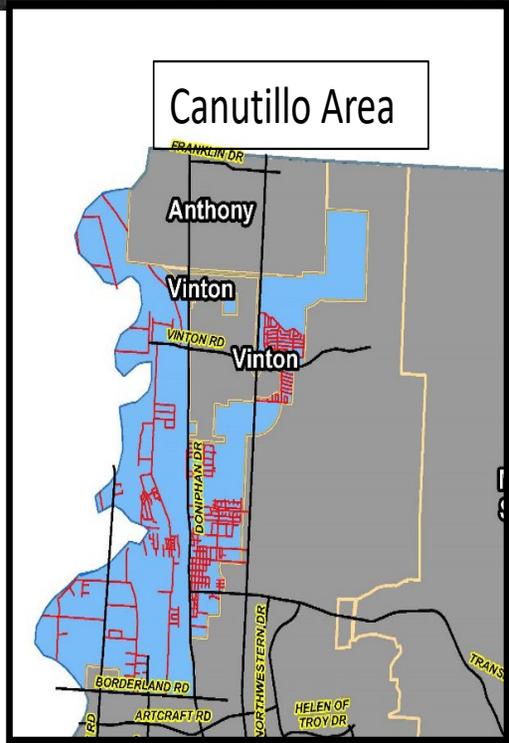
## Department of Infrastructure Services



# DEPARTMENT OF INFRASTRUCTURE SERVICES



# R&B Warehouse Coverage



Street Signs

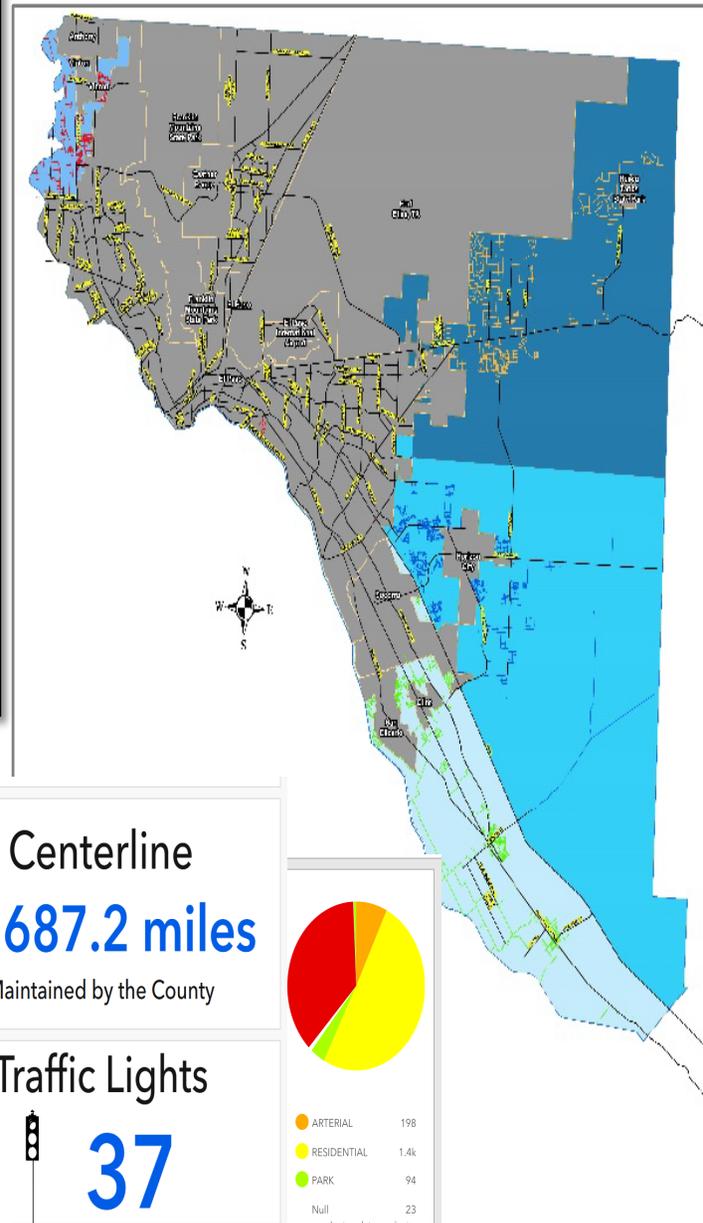


**6.5k**

Street Name Signs

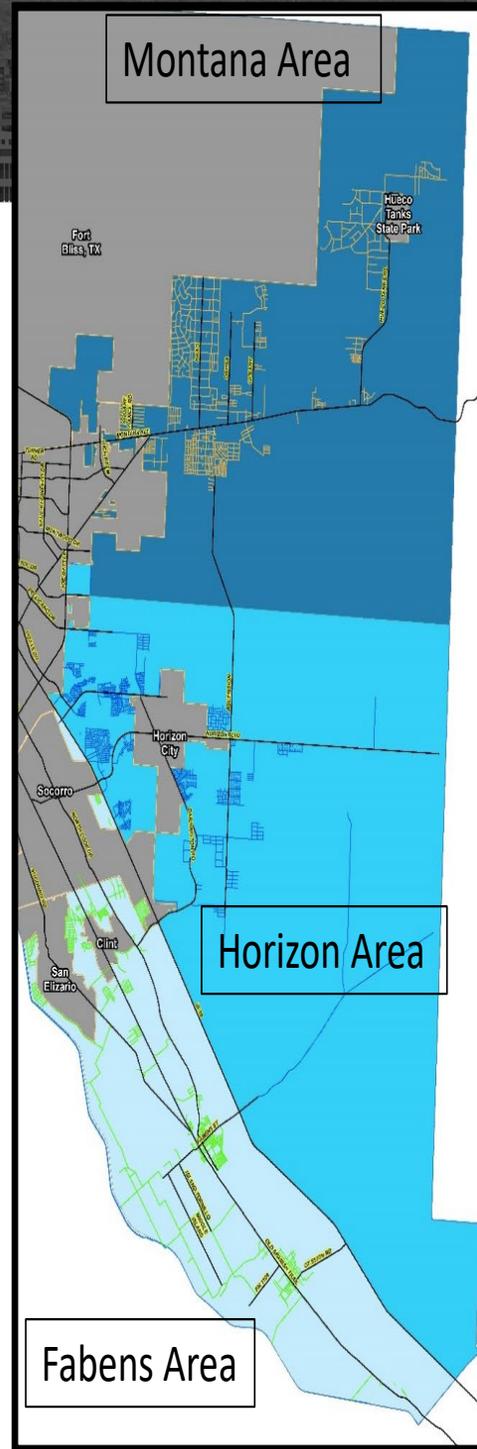


**3.6k**



## R&B:

- Pavement preservation method to 10%
- Overlay of roadways
- Chip seals
- Fog seals
- Maintain streets signs
- Maintain streetlights
- Maintain stormwater
- Clean arroyos
- Clear culverts
- Maintain irrigation crossings
- Clear inlets and manholes
- Maintain underground chambers
- Clear low water crossings
- Clean up urbanized flooding issues
- Maintain bridges
- Maintain airport

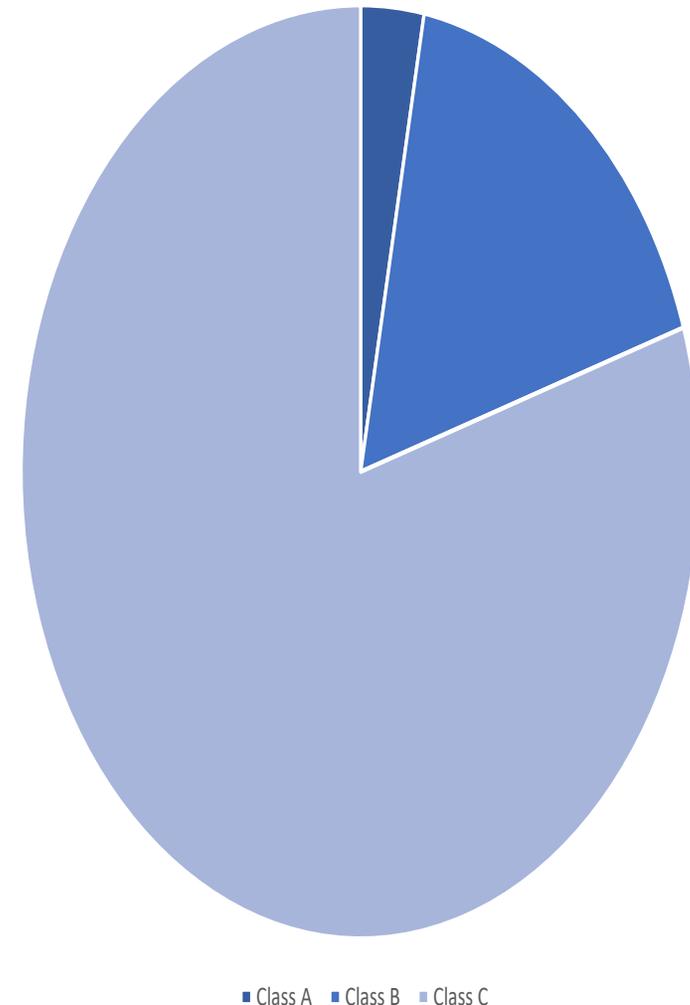


# County Roadway Network

## ■ County Network consists of:

- 1,300 different roadways
- 687 center line miles
- 3 Road Classifications
  - Class A Roads – 3%
  - Class B Roads – 17%
  - Class C Roads – 80%
- Water Crossings
  - Bridges – 20
  - Culverts (Major) – 13
  - Pipes (Minor) – 95
  - Low Water – 138

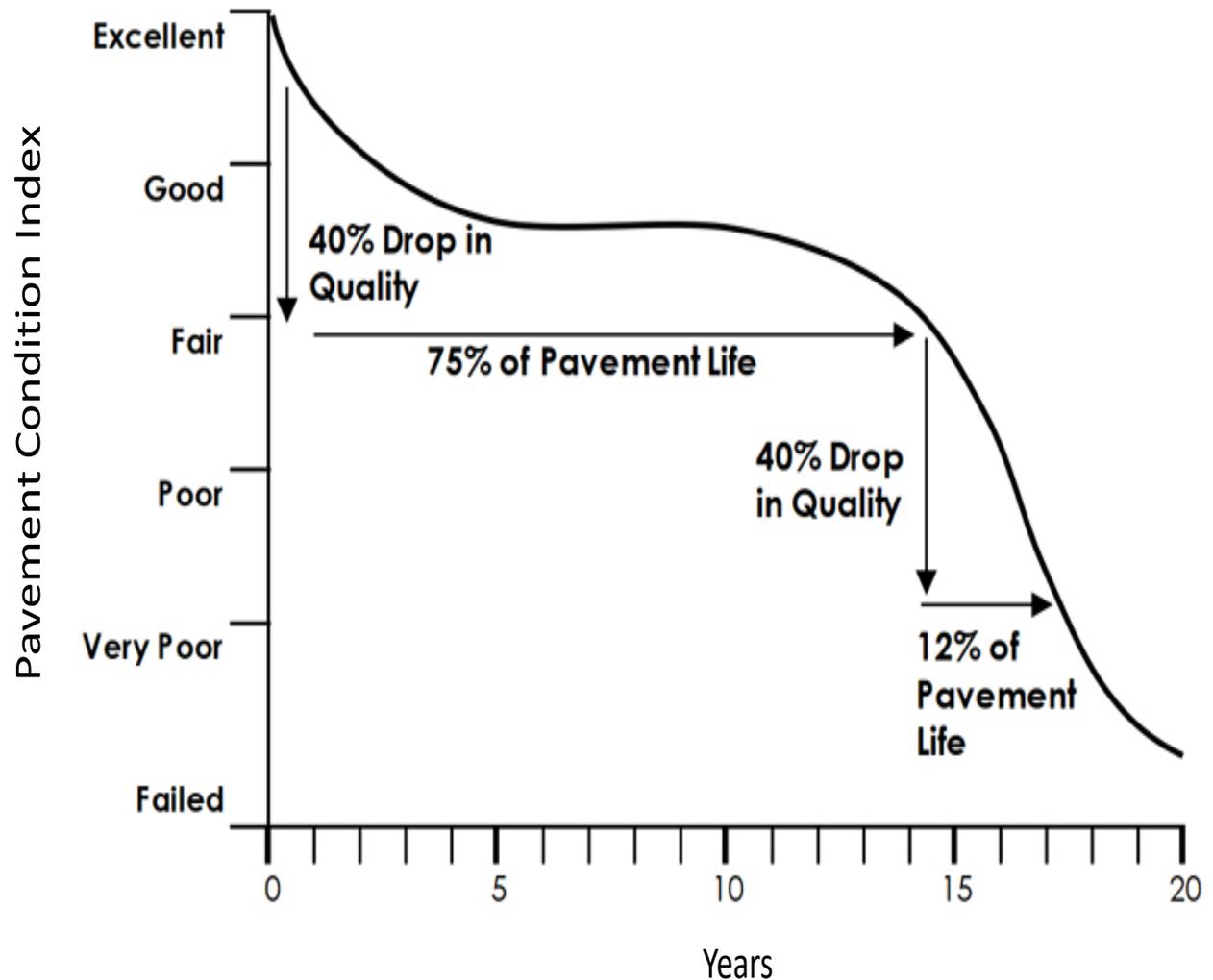
County Roadway Network



# Customary Practices

## Traditional Option

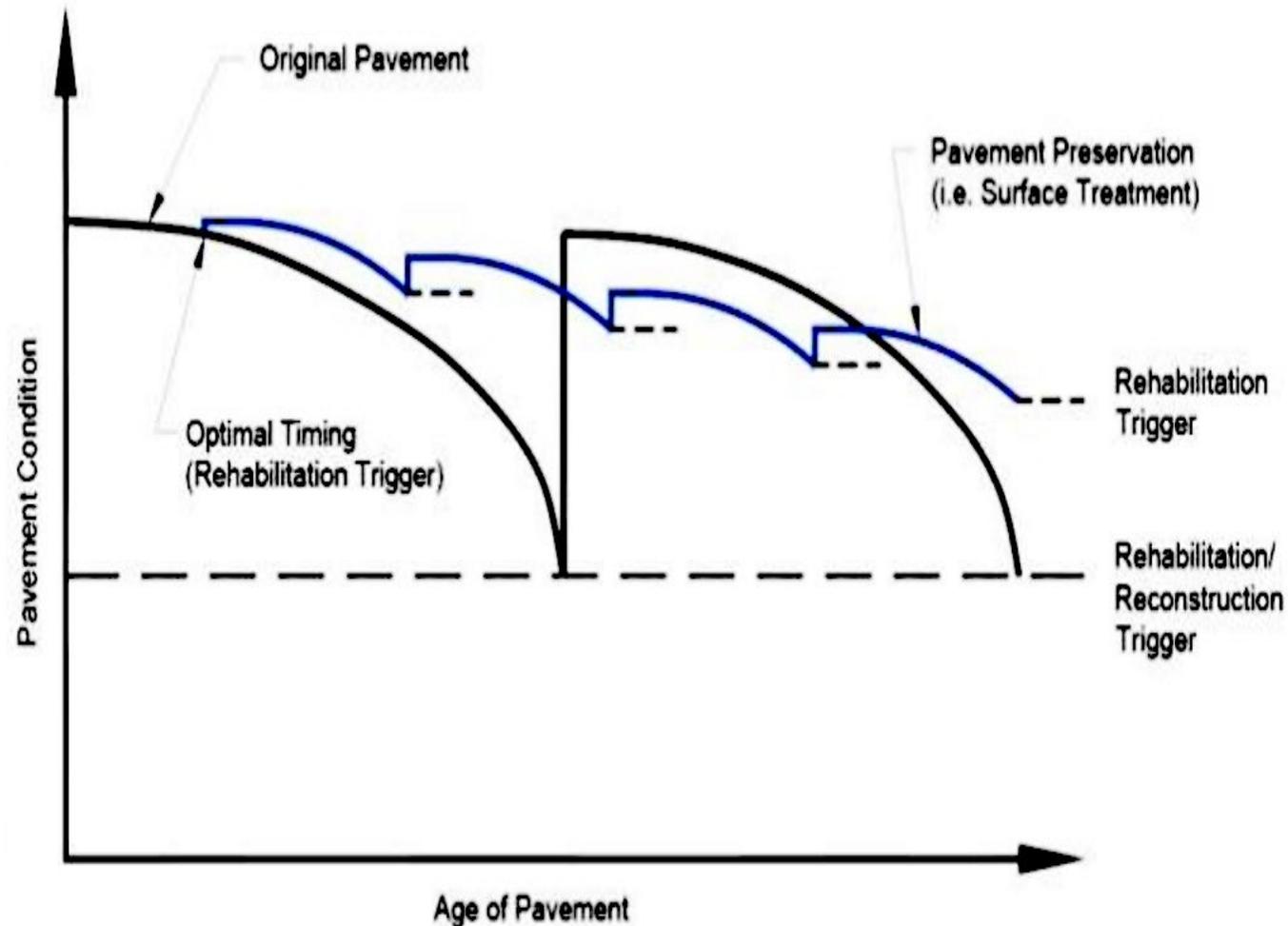
- Street Construction
- Typical 20 year life span (17 years)
- Very Minimal Maintenance
- Differed Costs
- Reconstruction



# Paving Program

## Pavement Preservation Methods Model

- Street Construction
- Identify method needed
- Extend Life of Pavement
- Lower Costs through duration of life
- Maintain integrity



# Paving Program

## GOALS:

- Maintain entire roadway network
- Implement Pavement Preservation Method (PPMs) on 10% of network yearly
- Extend Pavement life of roadways
- Maximize Funds to improve network
- Plan for “End-of-Life” segments

Crack Sealing



Chip Sealing



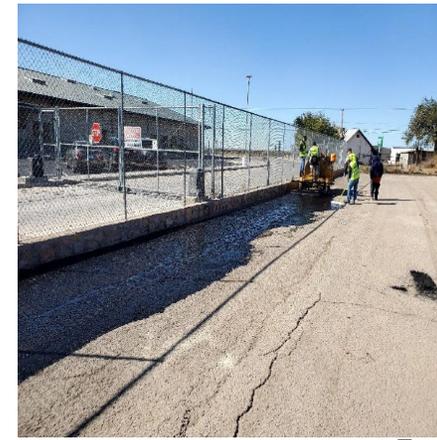
Fog Sealing



Overlay



Slurry Sealing



# County Network

## ■ Pavement Condition Index

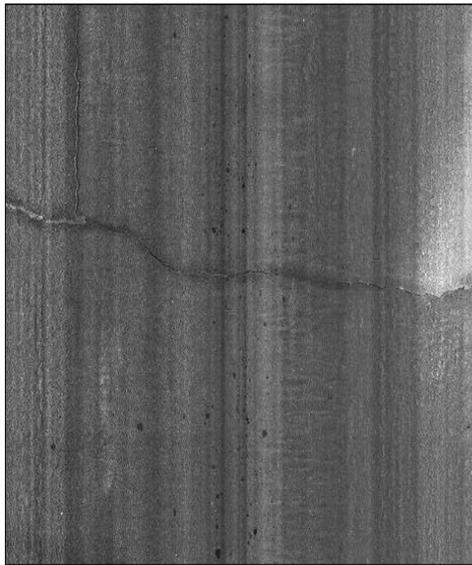


Figure 6: Pavement Image Example

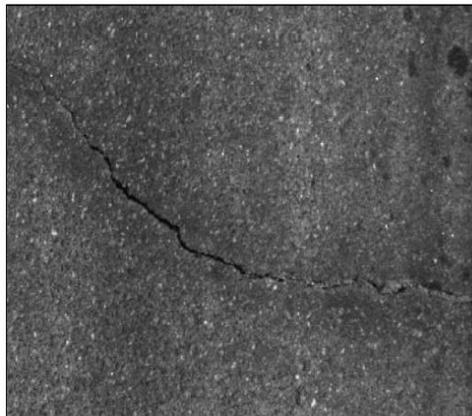
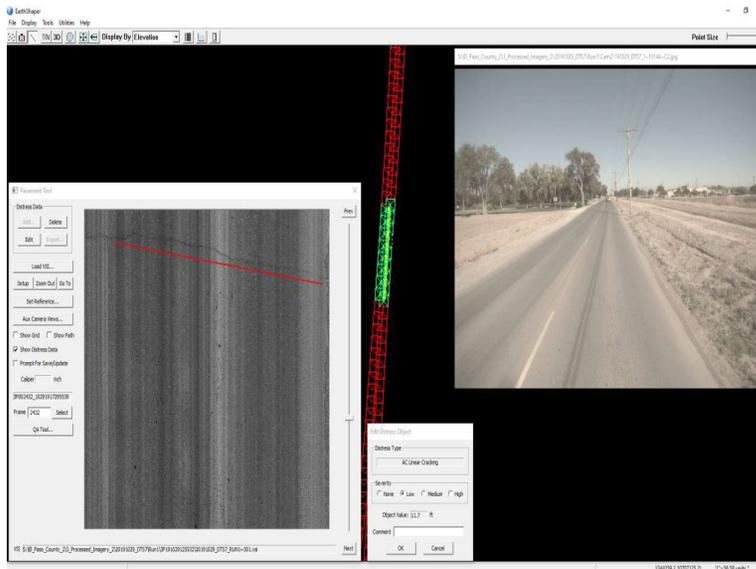


Table 1: ASTM D6433-11 PCI Condition Groups

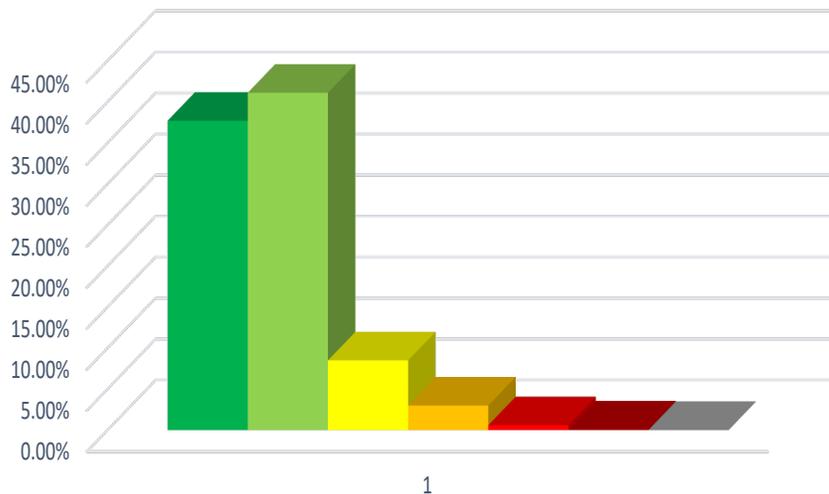
PCI Range	Condition Description
86 - 100	GOOD
71 - 85	SATISFACTORY
56 - 70	FAIR
41 - 55	POOR
26 - 40	VERY POOR
11 - 25	SERIOUS
0 - 10	FAILED

# County Network

## ■ Pavement Types

- Concrete Paved Roads – 1%
- Asphalt Paved Roads – 90%
- Gravel Unpaved Roads – 6%
- Dirt Roads – 3%

El Paso County Roadway  
Pavement Condition Index

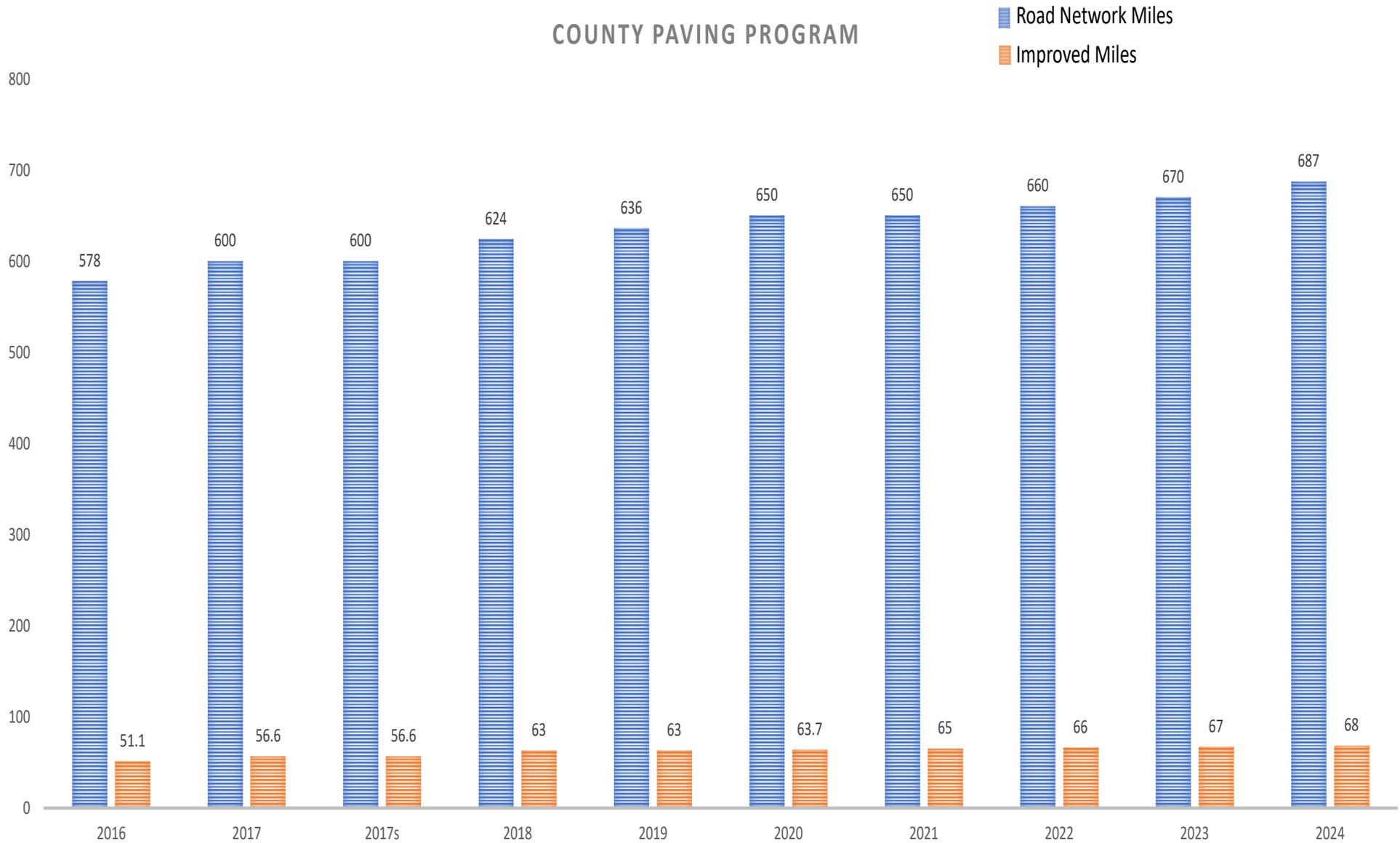


PCI Range	Condition Description	Percent of Network	
86-100	Good	37.70%	78.80%
71-85	Satisfactory	41.10%	
56-70	Fair	8.50%	11.50%
41-55	Poor	3.00%	
26-40	Very Poor	0.60%	
11-25	Serious	0.08%	
0-10	Failed	0.02%	
Null	Unclassified	9.0%	

- County Roads (Paper Plat Roads) not in Network
  - Dirt Roads – 1,825 miles of unpaved/undeveloped roads county wide

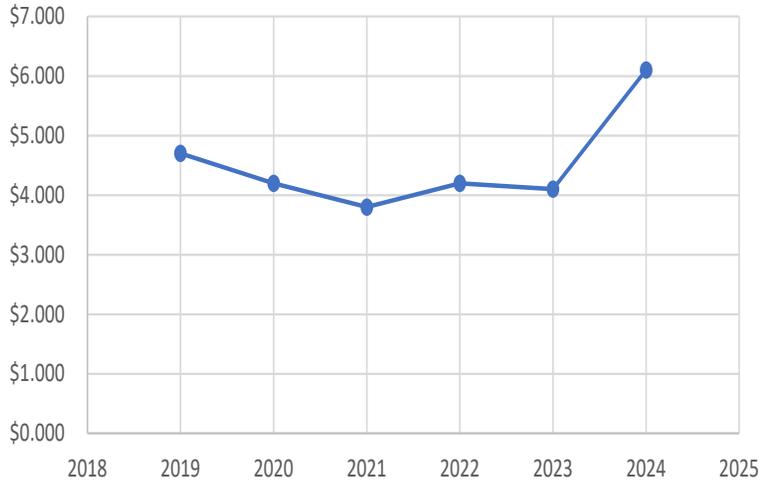
# Paving Program History

## COUNTY PAVING PROGRAM

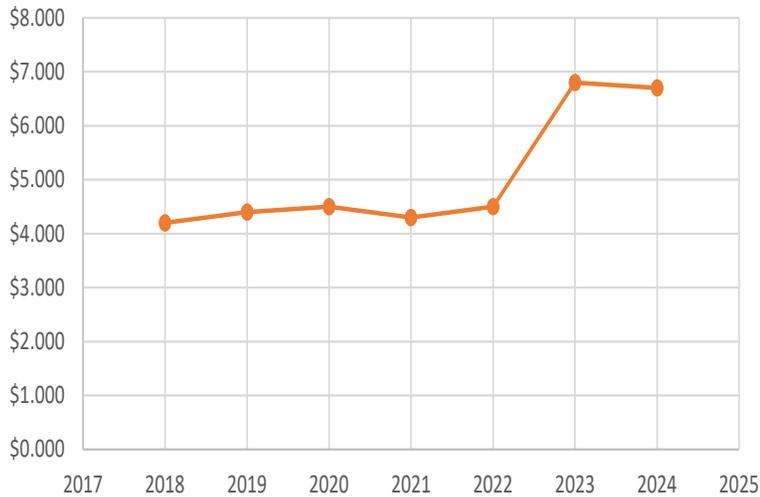


# Operations

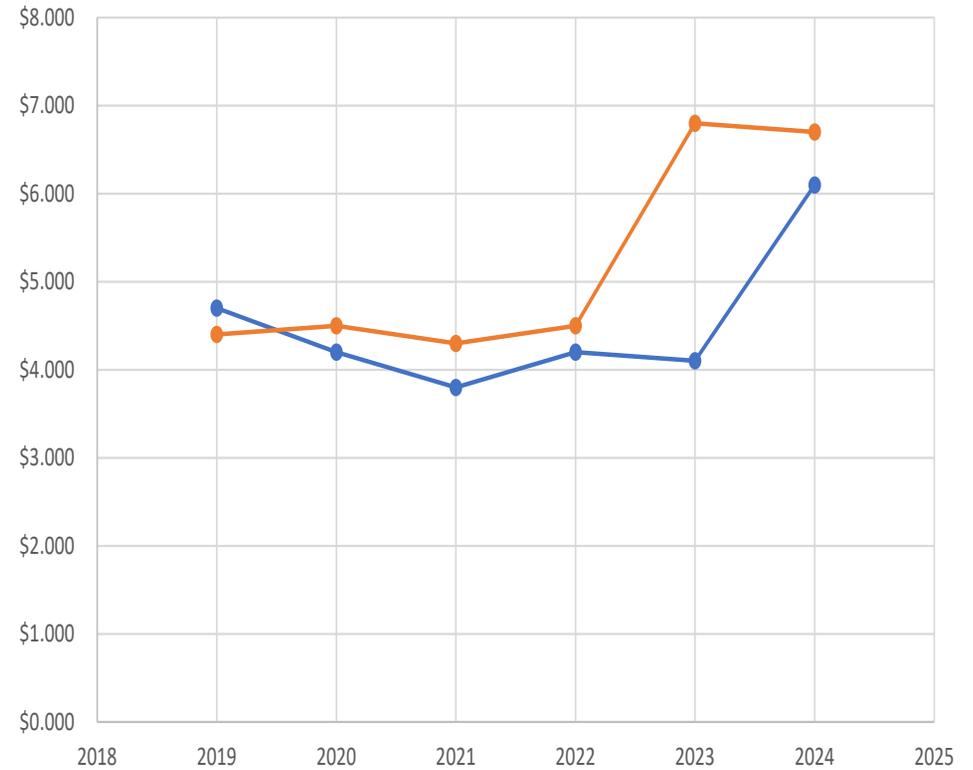
Paving Budget  
(In Million Dollars)

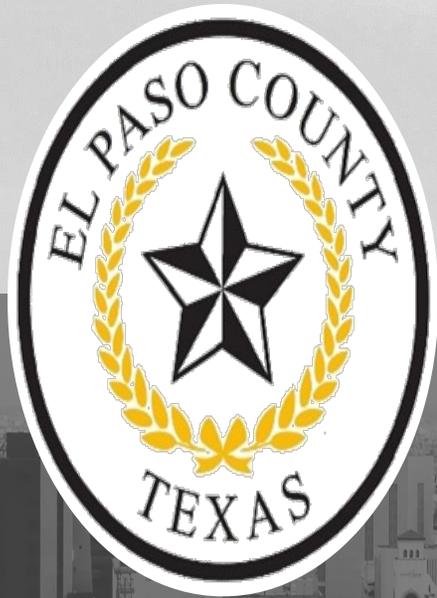


Paving Costs  
(In Million Dollars)



Budget vs. Cost





*Thank you*

