

TOWN OF PARADISE VALLEY

Pavement Management: Preserving The Town's Roadways



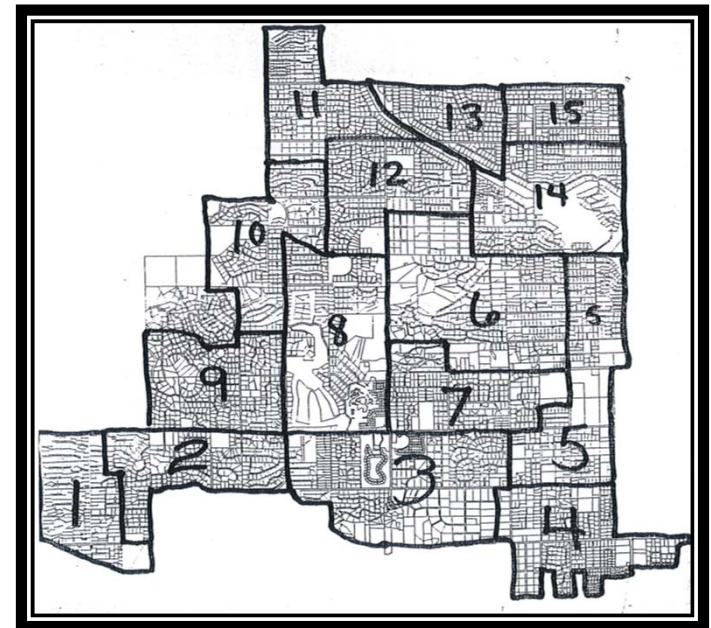
Purpose of Presentation

- Pavement Management Overview
- Approval of Funds for Annual Pavement Preservation Project
- Maintenance District 10, 13 & 15
- Program Schedule
- Future Proofing
- Project Cost Summary
- Questions



Pavement Management Statistics

- ❑ Maintain 145 linear street miles
- ❑ Town is divided into 15 maintenance districts
- ❑ Each district averages 9.4 linear miles
- ❑ Goal: To apply surface treatments to three districts annually



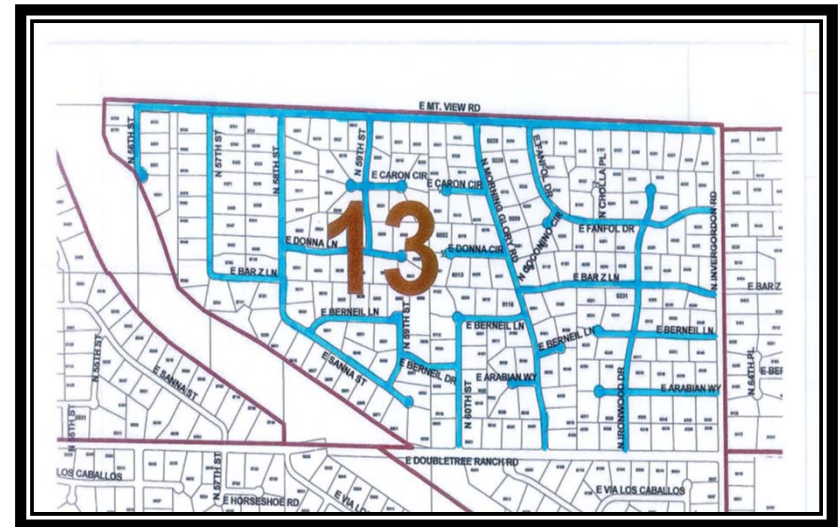
Pavement Management Process

- Collect street surface data every 5 years
- Data is collected using a Road Surface Tester truck
- All of the data collected is entered into a pavement maintenance database
- Streets are then assigned a Pavement Condition Index rating (PCI) from 0 to 100
- Based on the PCI rating, staff determines which pavement treatment is required.



Maintenance District #13

- ❑ **Boundaries:** Invergordon Road east to 56th Street and Doubletree Ranch Road north to Mountain View Road
- ❑ **Pavement:** 6.3 linear miles of streets with an average Pavement Condition Index (PCI) rating of 51
- ❑ **American Disability's Act (ADA) curb ramp modifications:**
 - U.S. Department of Justice & U.S. Department of Transportation require ADA ramps updated to the new specifications
 - Staff will update 6 ADA ramps in district 13 prior to the asphalt mill & overlay project
- ❑ **Recommendation:** Full mill and 1½ asphalt overlay and update 6 ADA Ramps

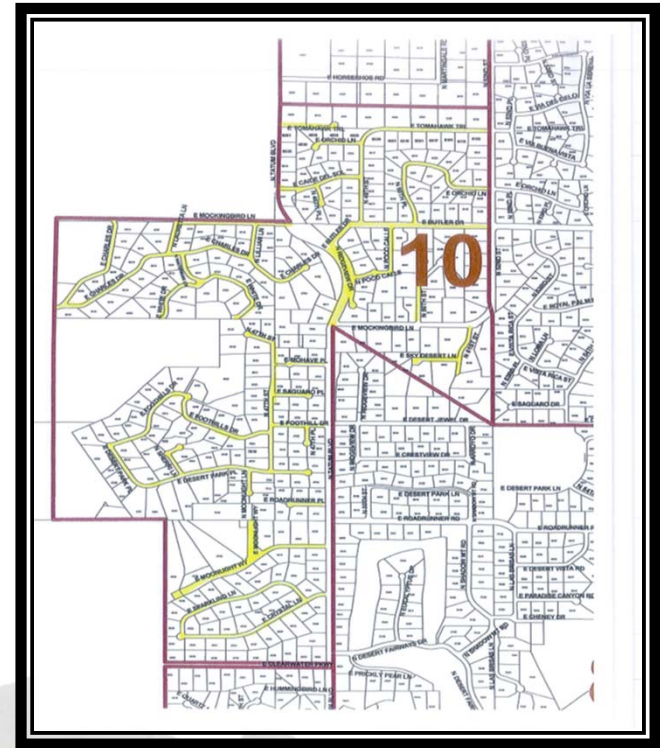


Streets Receiving a Mill & Overlay



Maintenance District #10

- ❑ **Boundaries:** Tomahawk Trail south to Crystal Lane and 52nd Street west to Charles Drive
- ❑ **Pavement:** 7.6 linear miles of streets with an average PCI rating of 86
- ❑ **Recommendation:** The streets in this district require crack seal and high density mineral bond Polymer Modified Masterseal (PMM) surface treatment

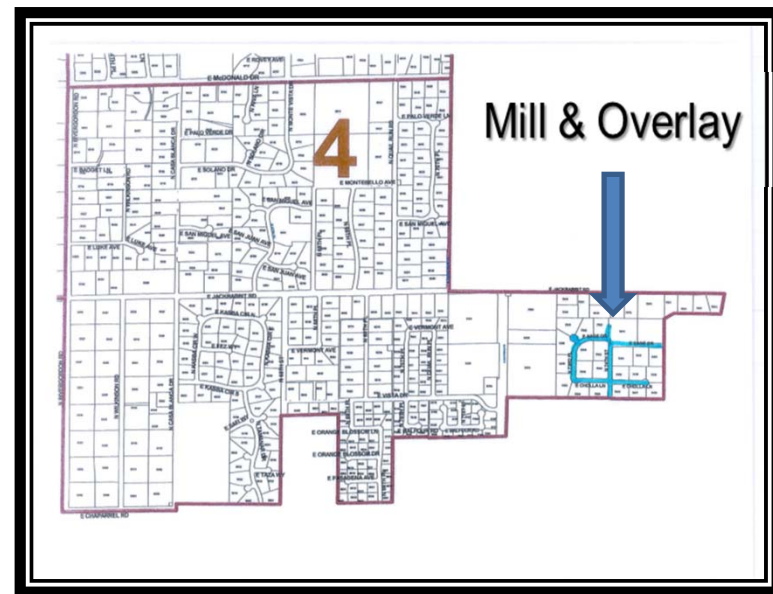


Streets Receiving Crack Seal & Surface Seal



FY18/19 Maintenance District 4

- ❑ This project was completed in conjunction with the completion of APS District 30 utility undergrounding project
- ❑ Carry over \$142,586.00 from FY 17/18 Pavement Maintenance Budget
- ❑ The cost to overlay APS District 30 in Maintenance District 4 was \$120,267.00.



FY18/19 Asphalt Overlay & Surface Seal Schedule

- Crack seal in Maintenance District 10 & 15:**
 - Begin February 2019
 - Estimated completion March 2019

- Application of surface seal for Maintenance District 10 & 15:**
 - Begin March 2019
 - Estimated completion May 2019

- Asphalt Mill & Overlay Maintenance District 13:**
 - Begin mill and asphalt overlay on April 2019
 - Estimated completion June 2019



Future-Proofing

Installing Conduit While Streets Are Exposed

- The installation of conduit could be scheduled to coincide with future pavement maintenance projects, while streets are exposed for Mill and Overlay work, if areas of need are identified.
- Public Works will work with IT, and other departments as needed, to identify possible areas for conduit locations.
- Moving forward, the annual pavement maintenance program will include the identification of possible conduit installation locations.



FY18/19 Pavement Maintenance Budget \$1,682,586.00

Cost Summary:

- Mill and Overlay Cost Maintenance District 4: \$120,267.00
- Cost for Asphalt Mill & Overlay District 13: \$1,106,970.00
- Cost for Crack Seal & PMM Districts 10 & 15: \$453,509.00
- Total Expenditures for FY18/19: \$1,680,746.00



Questions?

