



TOWN OF FAIRFAX TOWN COUNCIL MEETING

PAVEMENT MANAGEMENT PROGRAM 5 YEAR PAVEMENT PLAN

JANUARY 24, 2024





PRESENTATION GOALS

- Review pavement 101 & pavement management principles
- Review current conditions
- Review 5 Year Pavement Plan Development

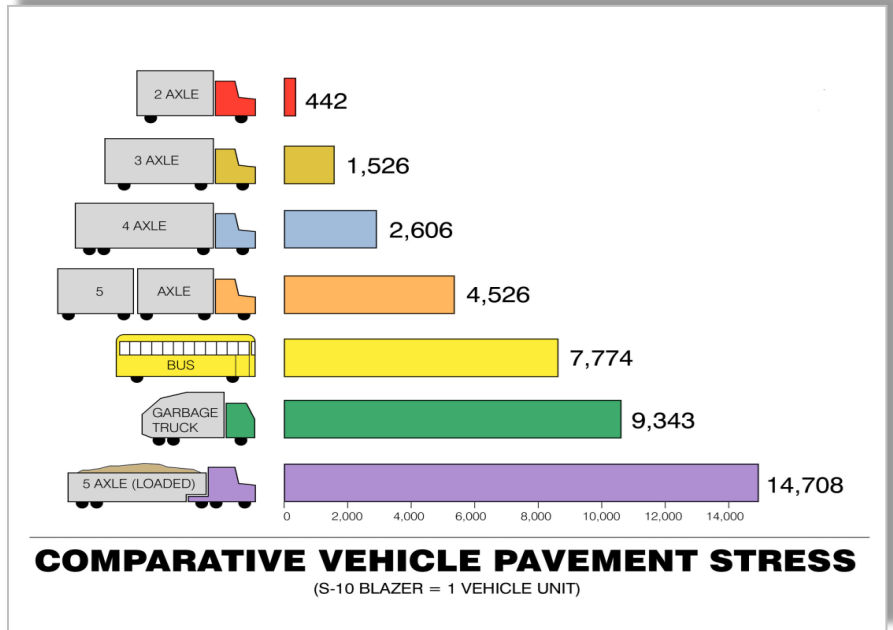
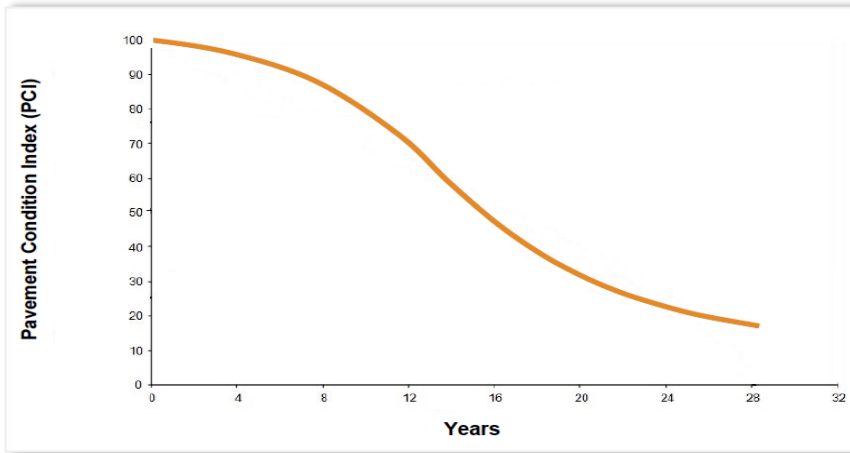


PAVEMENT 101 & PAVEMENT MANAGEMENT PRINCIPLES



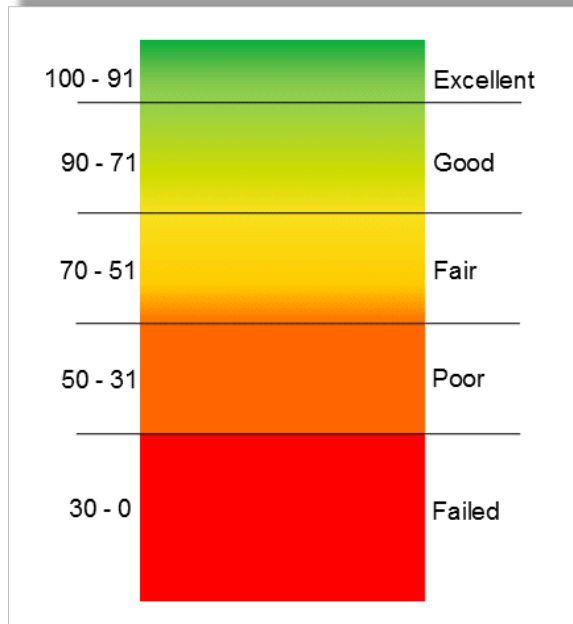


Pavement Deterioration





Pavement Condition Index - PCI



Pavement Condition Index (PCI) is an objective and rational basis for determining pavement condition and establishing maintenance priorities.

Common Pavement Distresses



Transverse or Longitudinal Cracking



Alligator Cracking



Weathering or Raveling



Block Cracking

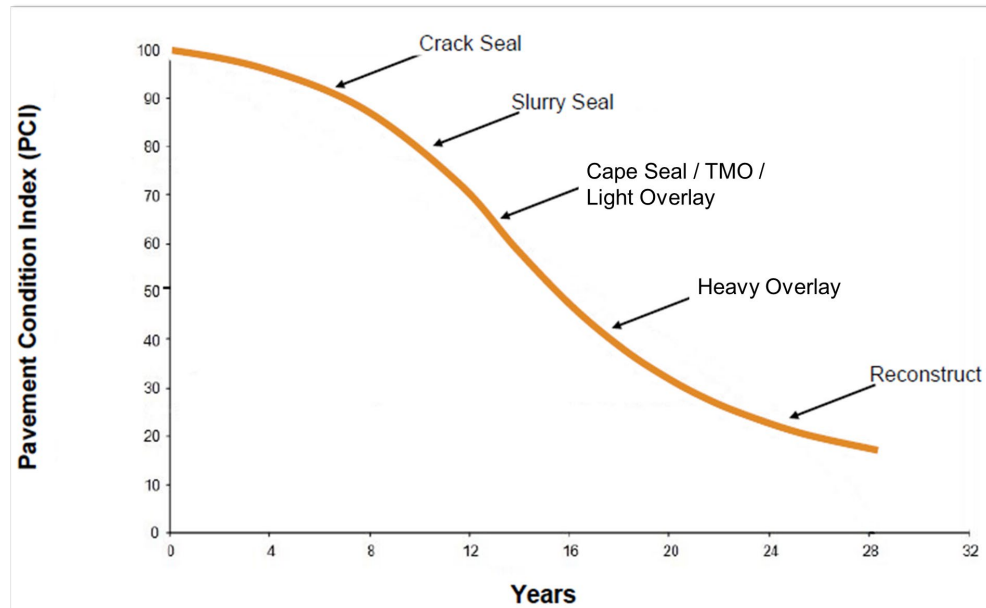




Best Management Practices

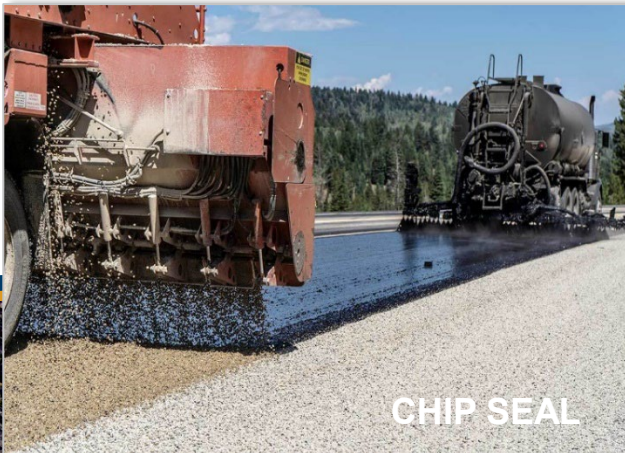
Applying the
RIGHT TREATMENT
to the
RIGHT PAVEMENT
at the
RIGHT TIME
using the
RIGHT MATERIALS

Pavement Preservation Timing





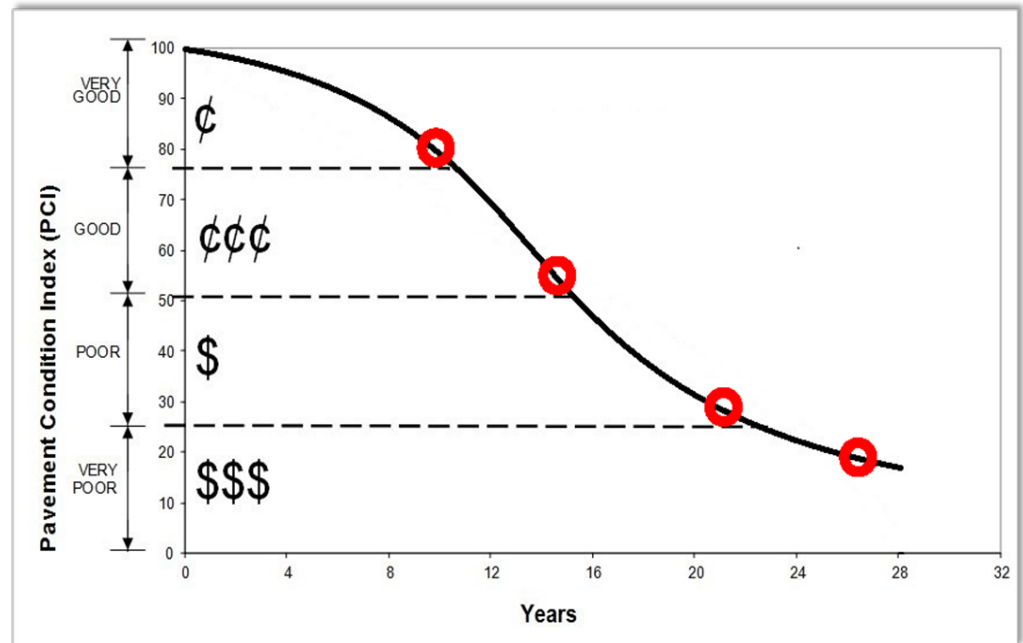
Treatment Types





Good Pavement Management

- Best-First - “Top Down”
- Worst-First - “Bottom Up”
- Critical-Point





CURRENT CONDITIONS AND FUNDING NEEDS





Town of Fairfax System Data

- System Size
 - ✓ 27.6 centerline miles
 - ✓ 3,067,321 square feet of pavement
- System-wide average weighted PCI of 53 (down since PTAP-23 issuance)
- Replacement value of \$203,000,000



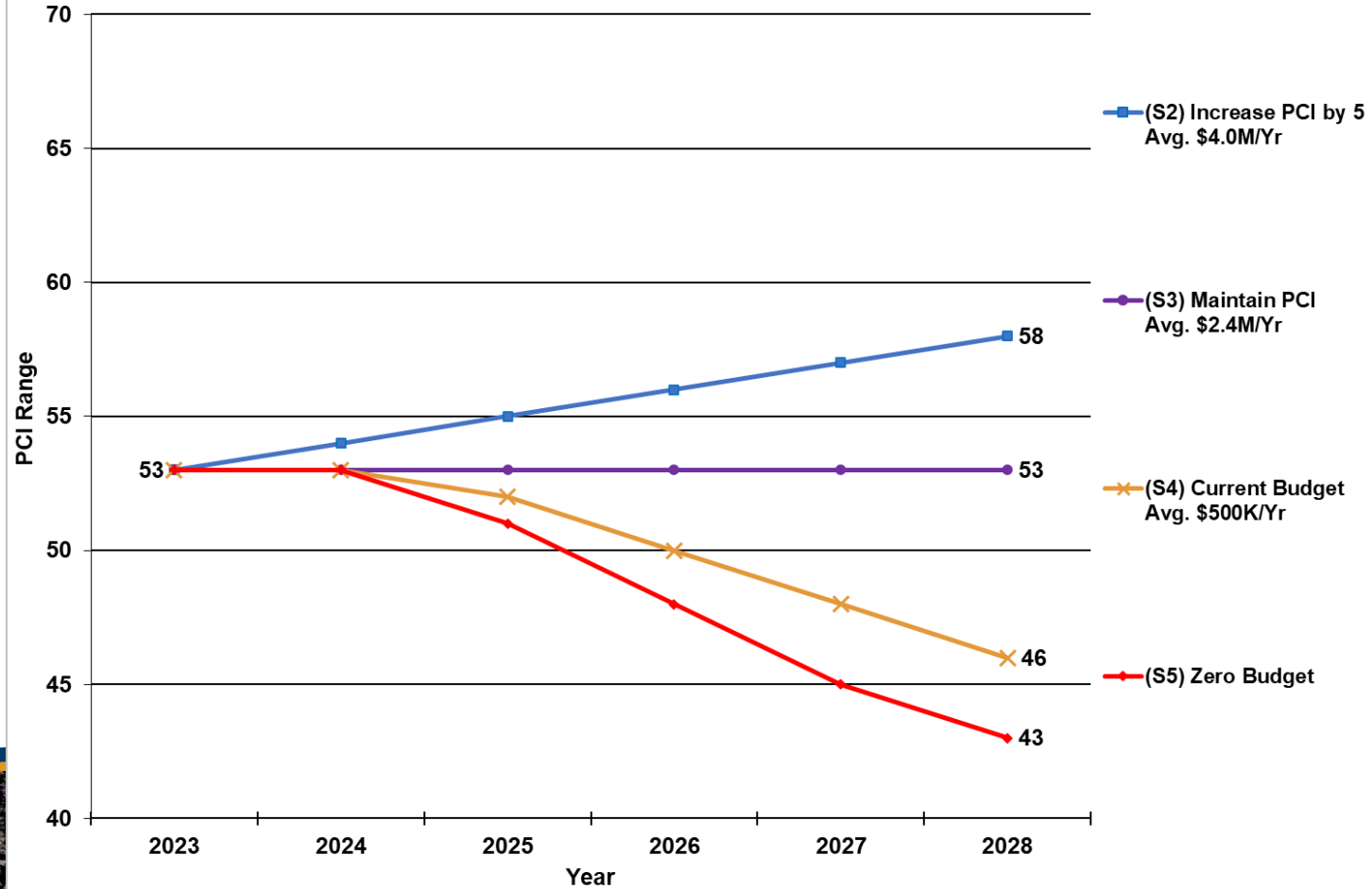
Maintained Road System

Functional Classification	Centerline Miles	AREA (SqFt)	Percent of System	Average PCI
Arterial	4.8	693,662	22.6%	55
Collector	10.0	1,099,928	35.9%	53
Residential	12.7	1,273,731	41.5%	52
TOTAL	27.5	3,067,321	100.0%	53





5 Year Projections





5 YEAR PLAN DEVELOPMENT

Task 1 – Analysis of the Towns PMP Database

Task 2 – Field Review of Streets

Task 3 – Update Unit Prices

Task 4 – Development of Five-Year Project Lists





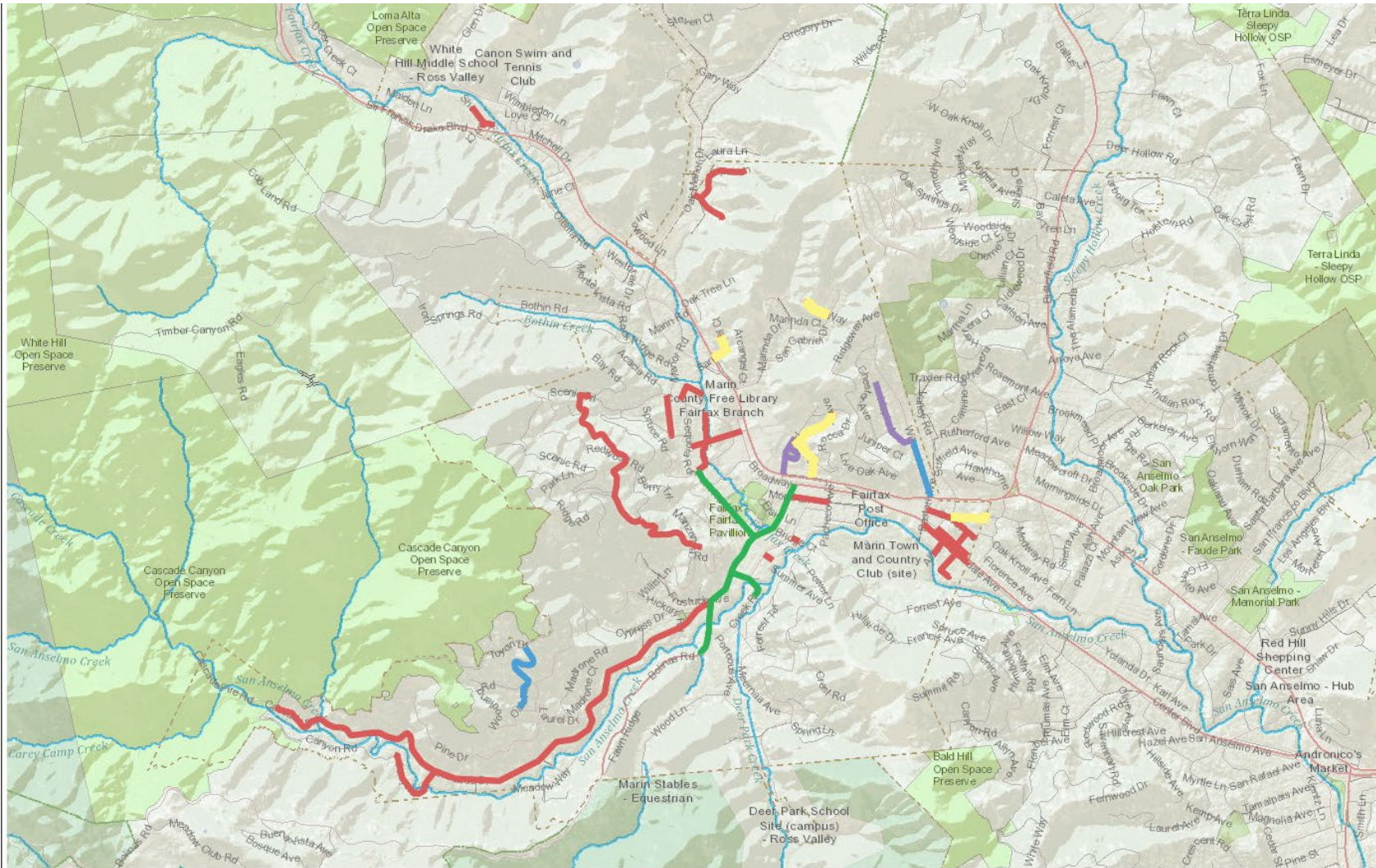
5 YEAR PLAN DEVELOPMENT

- Analyze database for “Candidate Streets” based on Critical Point Management
- Account for future work
- Coordination with Utility Companies
- Work within available budgets





Proposed Five Year Plan



Legend

- YEAR ONE
- YEAR TWO
- YEAR THREE
- YEAR FOUR
- YEAR FIVE



Year One Plan



Focus is upon slurry seal to various sections town to preserve conditions.

Locations include Cascade, Upper Scenic, Lansdale and nearby areas





Year Two Plan

Focus is upon Willow and Oak Road, both heavily traveled and in poor condition. Work will include removal of existing asphalt through 'Mill and Fill'





Year Three Plan

Work involves Lower Bolinas, Park Road and a section of Creek Road in anticipation of other work that is scheduled by other agencies and the Town





Year Four Plan

Work includes Claus Road (that was notable to be completed in 2023) and Maple from Willow.

Work on Claus anticipates other sidewalk work through a TAM Grant





Year Five Plan

Work augments other work performed in previous years (Hill Ave and Taylor and Geary) and brings work to other areas of Town





Questions?

