







Public Works Department

Pavement Management Phil Mann, P.E. 9/17/2015

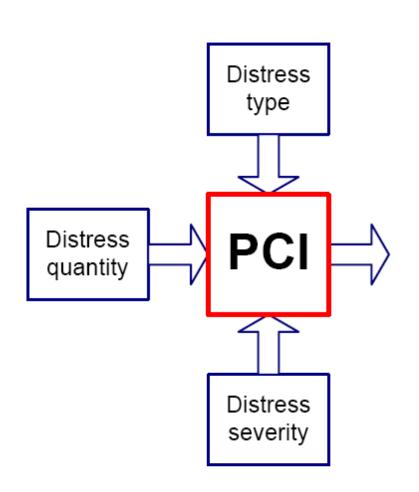


Pavement Management

- Pavement Condition Analysis
- Pavement Management Approach
- GMP for Contract Work



GAINE VILLE Pavement Condition



Standard PCI rating scale

Excellent

Very good

Good

Fair

Poor

Very poor

Failed



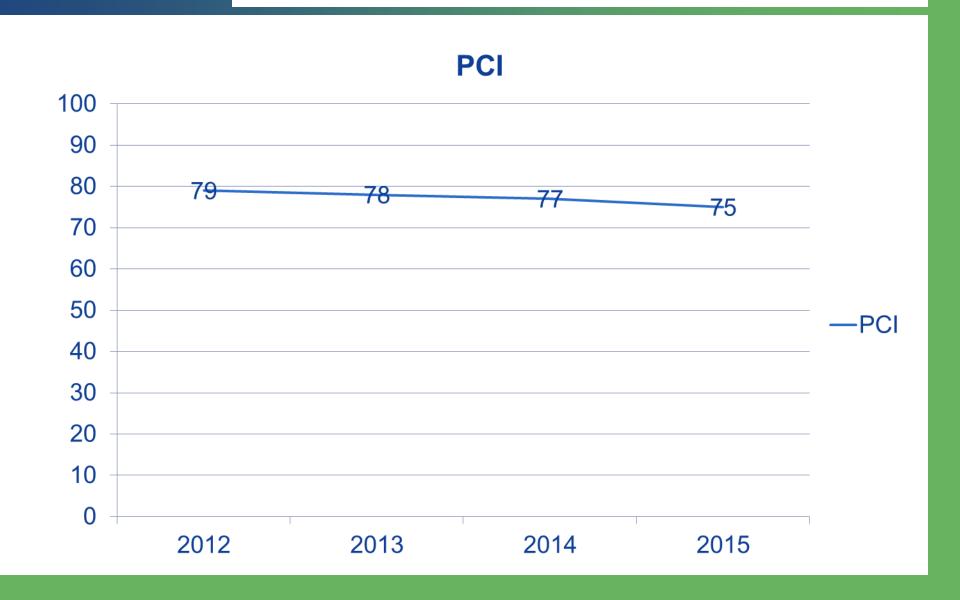
Pavement Condition by PCI

Condition Category	Low PCI Value	High PCI Value
Excellent	92	100
Very Good	82	91
Good	68	81
Fair	50	67
Poor	35	49
Very Poor	20	34
Failed	0	19

- Newly constructed road would have a PCI of 100, while a failed road would have a PCI of 20 or less.
- Critical pavements classified as those pavements with a PCI of 50 or less.



Weighted Average PCI





Pavement Management

- Retained services of Pavement
 Management Consultant
 JG3 Pavement Management Simplified
- Developed a 3 year Pavement Management Plan

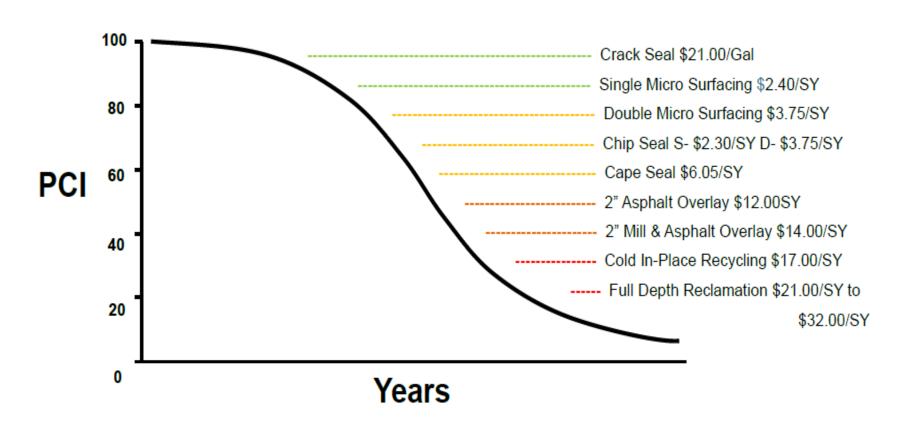


Pavement Management

- Traditional strategy 'worst first' major mill/resurface and reconstruction focus
 - Good pavements will deteriorate and will end up with more failing streets
- Pavement Preservation combination of different treatment strategies to achieve a single goal of extending maintenance dollars and reducing user delay costs.



Cost of Maintenance



^{*} All pricing is estimated and varies on size and location of the project.

^{*} CIR & FDR would need to be surfaced with an Asphalt Overlay which is not figured into the price of either.

Traditional Strategy Market Possion Traditional Strategy

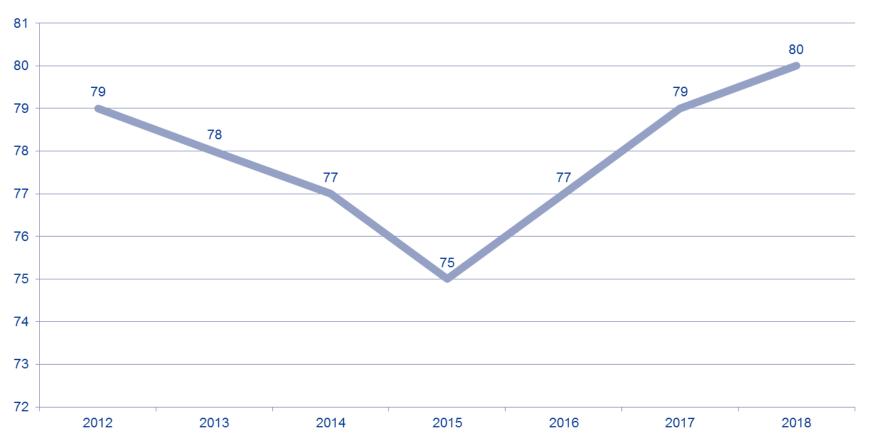
Weighted Annual Network Average PCI





Preservation Strategy

Weighted Annual Network Average PCI

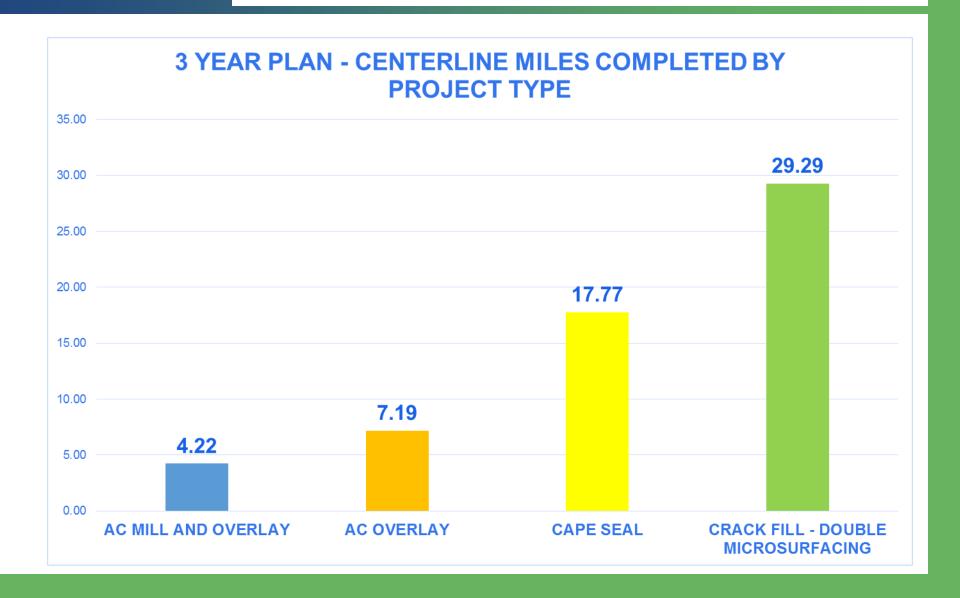




The Three Year Plan

- Network condition optimization approach goal of maintaining the network at a PCI of at least 80.
- Split annual budget amount approximately 40/60 between traditional and preservation methods.
- 40% toward critical pavements in-house
- 60% towards maintaining good pavements
 - contract work







GAINE VILLE Microsurfacing – PCI 68 - 81

 Treatment technique that effectively fills light cracks and voids while restoring surface texture and extending the life of the pavement.





Cape Seal - PCI 50 - 68

• 2 part pavement preservation strategy that begins with a chip and seal process and finishes with a microsurfacing on top to seal the surface on fair to good condition roads, correcting certain distresses while restoring surface texture and extending the life of the pavement.



GAINE VILLE Network Summary Network Summary

ZONE	AREA	Sections	Lane Miles	Centerline Miles	% NETWORK
NE	10,449,667	898	198	83	21%
NW	27,739,374	2432	525	221	57%
SE	4,176,953	445	79	34	9%
SW	6,845,591	492	130	51	13%
TOTAL	49,211,585	4,267	932	389	100%



GAINE VILLE Zone Summary – 3 yr plan

ZONE	SECTIONS	TOTAL MILES	% NETWORK
NW	2432	221	56.8%
NE	8898	83	21.3%
SW	492	51	13.1%
SE	445	34	8.7%
TOTAL	4267	389	100%



Year One Contract Work

- Brentwood Company
 - ~17.44 centerline miles
 - Crack Seal/Micro-surfacing
 - Cape Seal
 - **•** \$1,810,530.58



Questions?