

# City of Rochester

## **“Investment Strategies for Better Streets”**

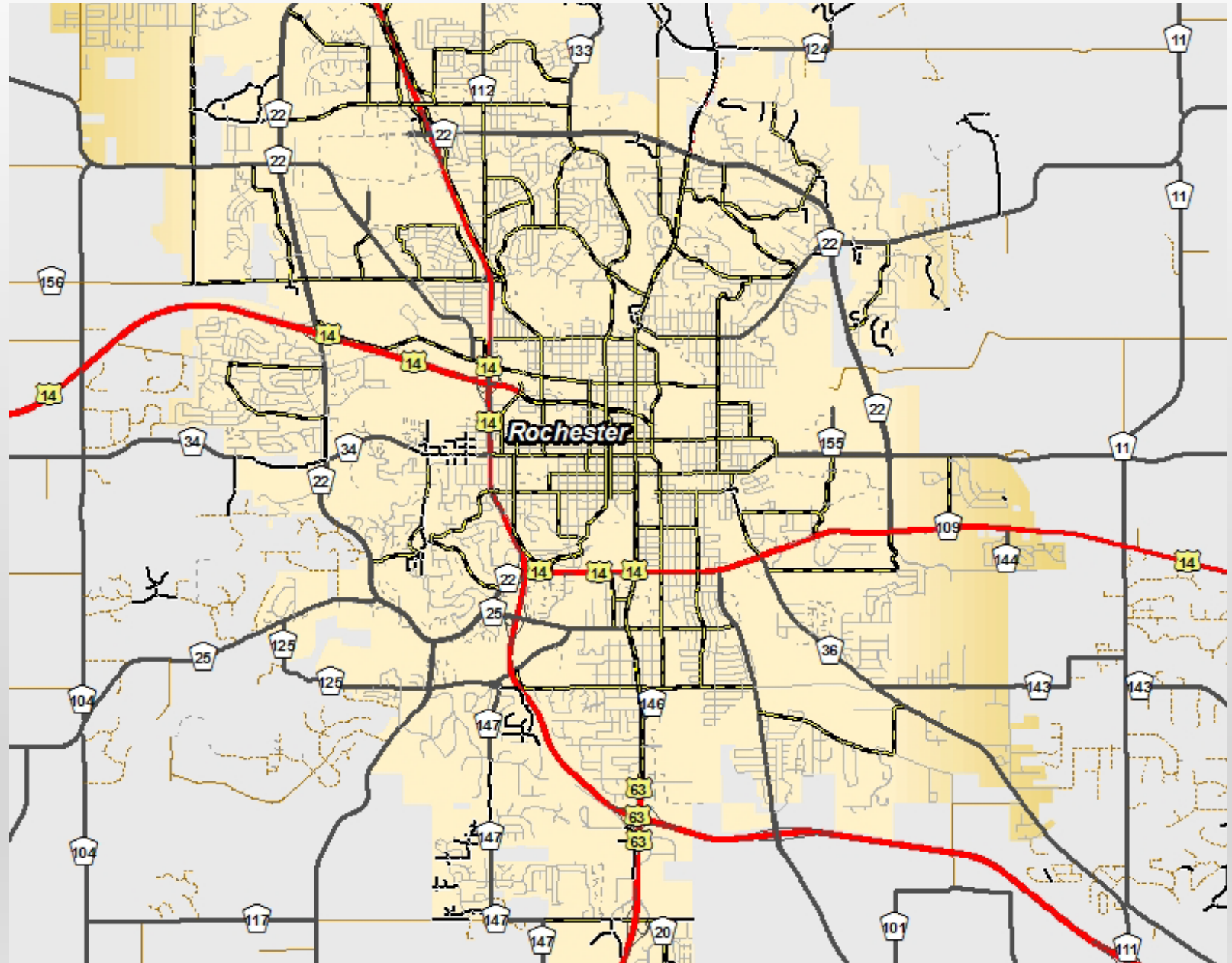
### **August 2016**

# Street Investment Strategies

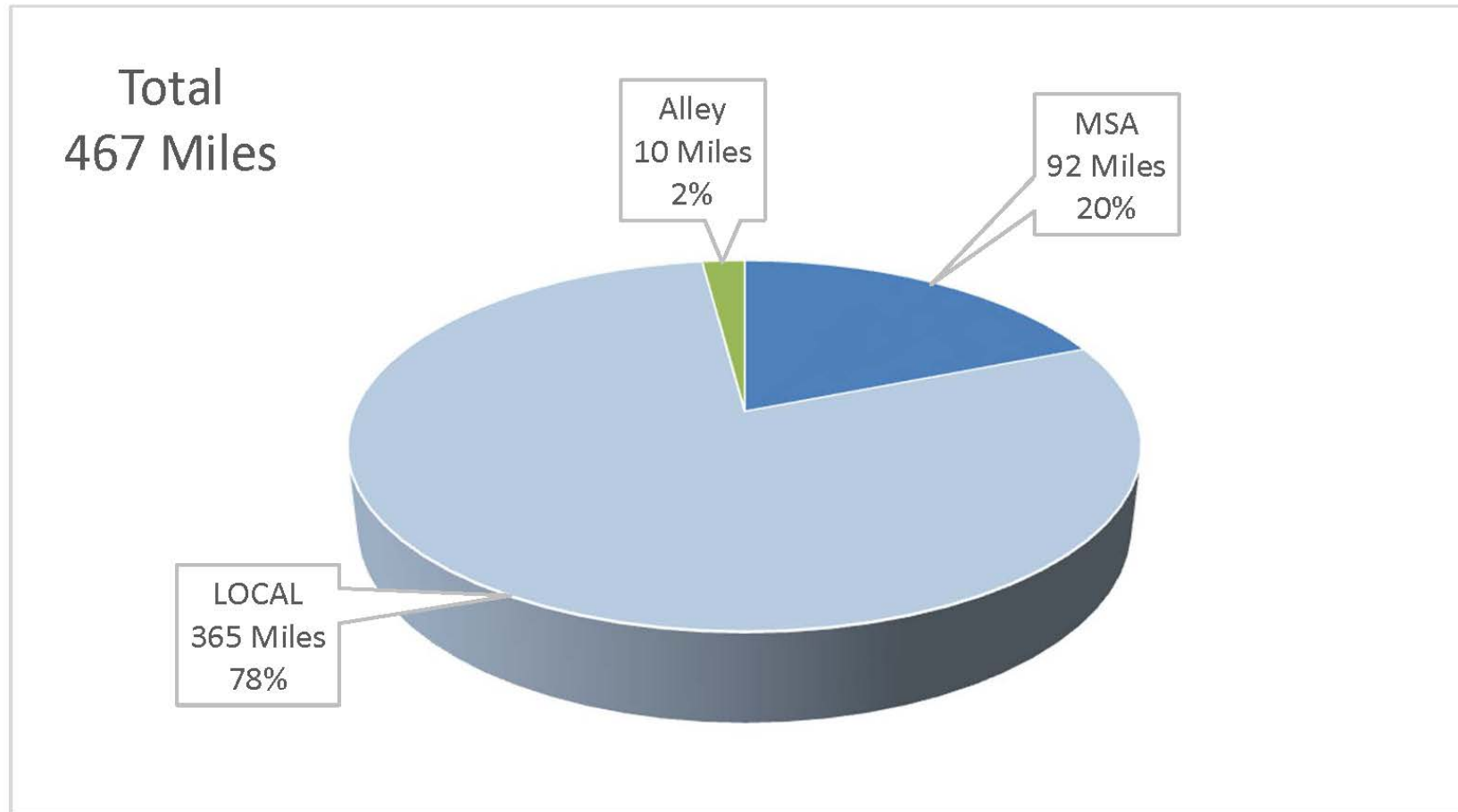
- Background & History
- Pavement Maintenance Strategies
- Investment Strategies

# City of Rochester Road Network

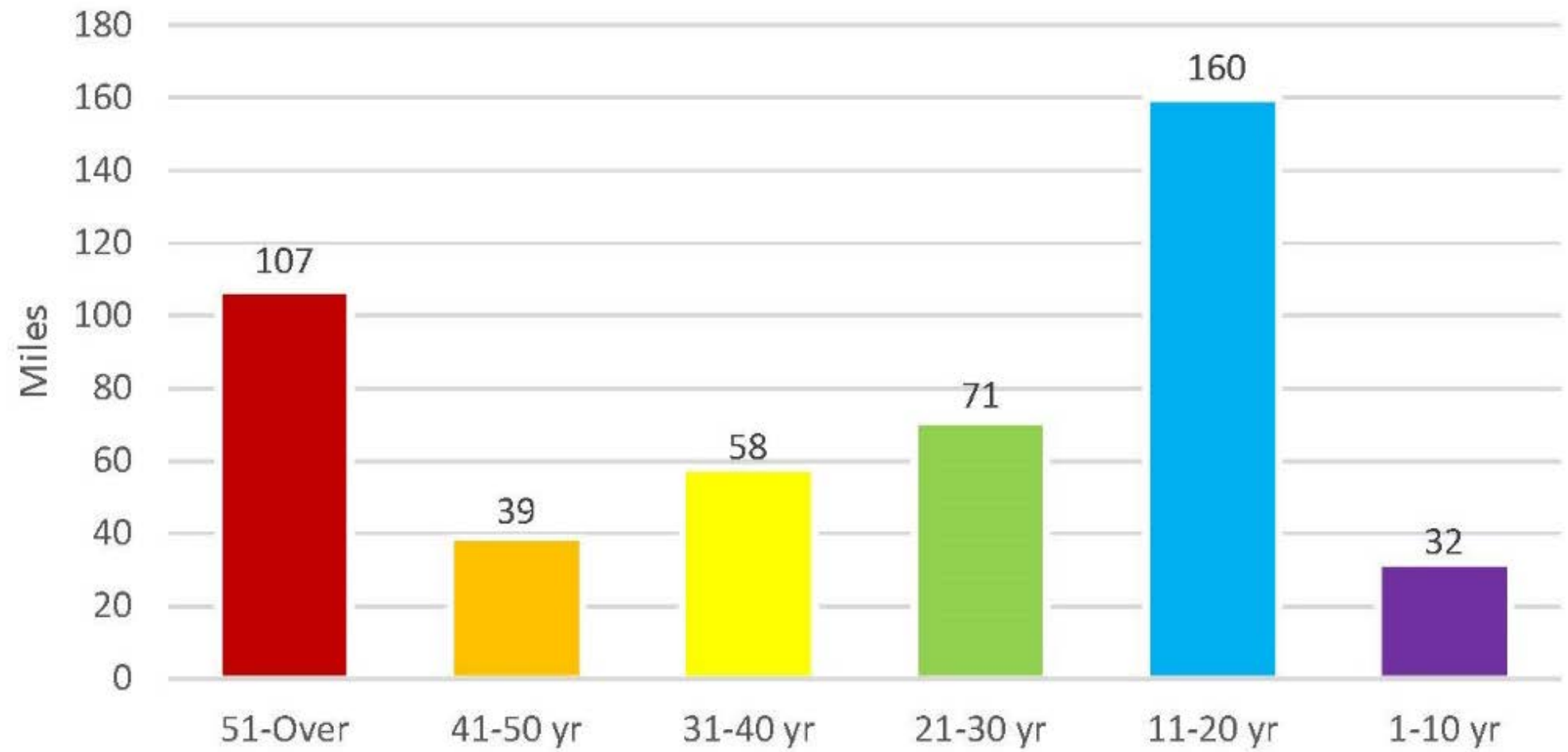
|               |                  |
|---------------|------------------|
| <b>TOTAL</b>  | <b>535 miles</b> |
| <b>State</b>  | <b>23 miles</b>  |
| <b>County</b> | <b>45 miles</b>  |
| <b>City</b>   | <b>467 miles</b> |



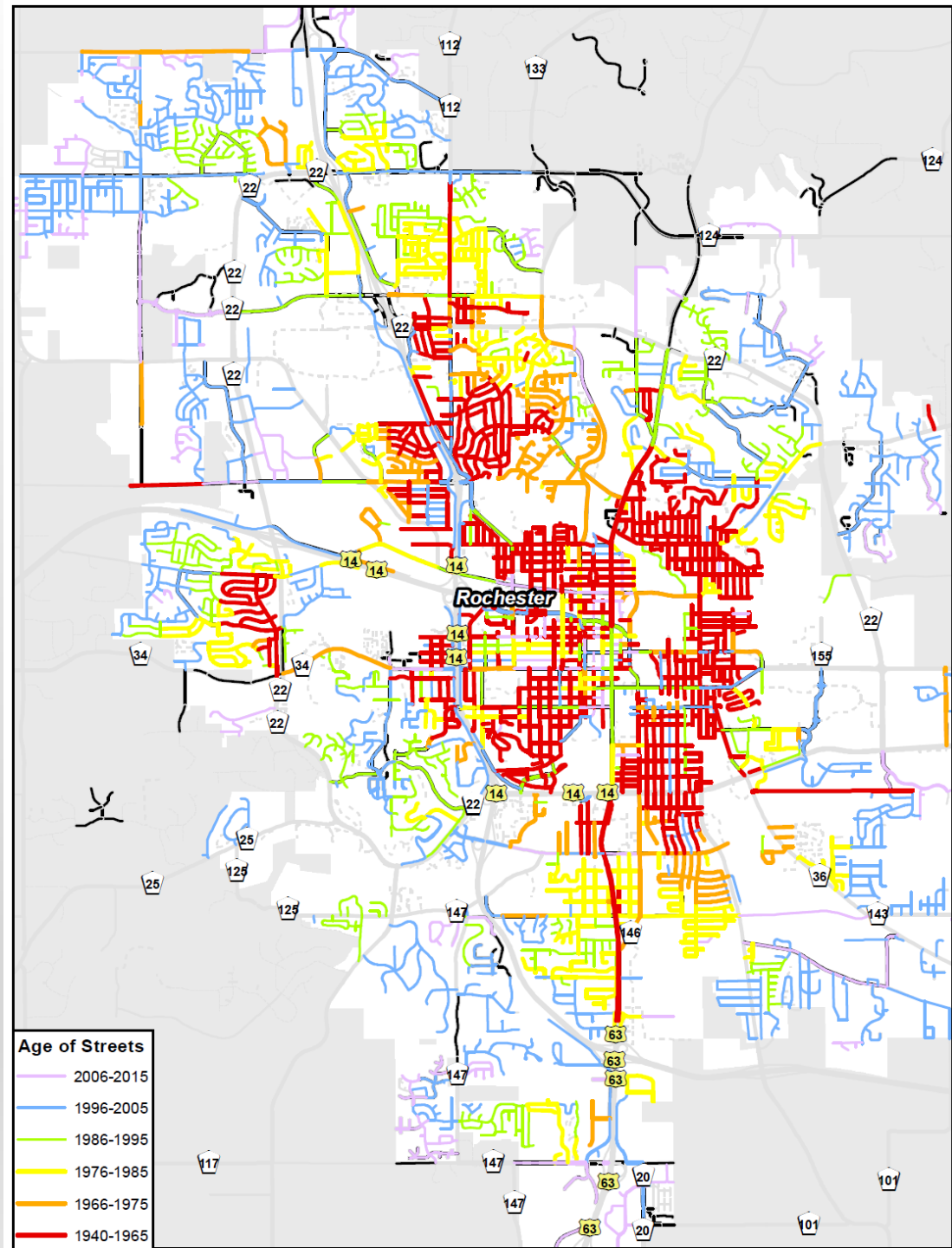
# City Street Network



## Age of Streets



# Location of Streets by Age



# Street **Surface** Condition Index

## Bituminous Streets:

|             |          |           |
|-------------|----------|-----------|
| • Very Good | 100 – 91 | 135 miles |
| • Good      | 67 – 90  | 179 miles |
| • Fair      | 34 – 66  | 42 miles  |
| • Poor      | 0 – 33   | 26 miles  |

Concrete Streets: 85 miles

Total: 467 miles

**Surface** Condition Index = 82 (Good)



**Surface** Condition Index = 66 (Fair)



**Surface** Condition Index = 20 (Poor)





# Typical Bituminous Pavement Detail



**Bituminous Wear Course**  
Thickness ranges 1.5 to 3 inches

**Bituminous Base Course**  
Thickness ranges 2.5 to 6 inches

**Aggregate Base, Class 5**  
Thickness ranges 8 to 15 inches

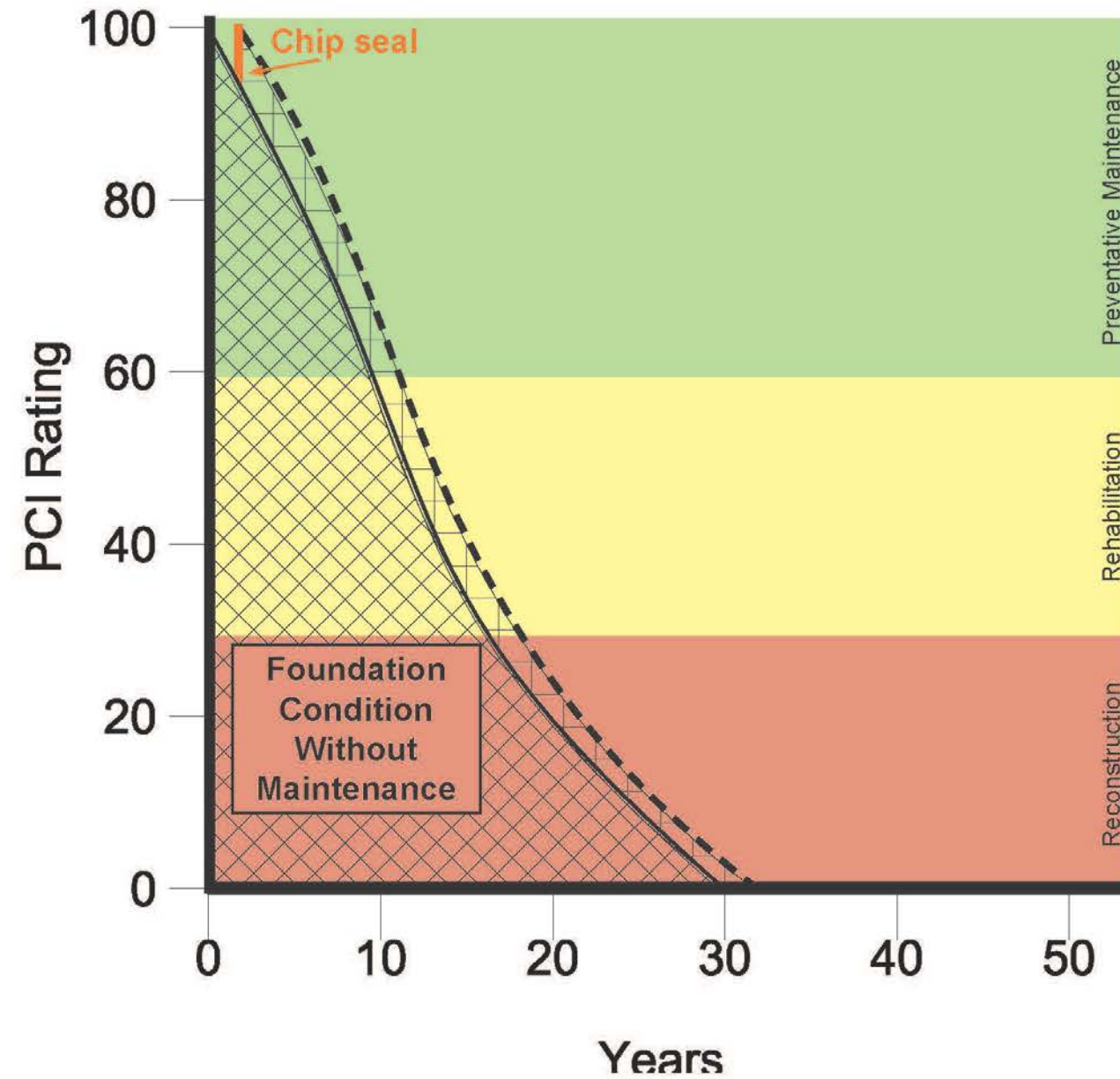
**Natural soils or subgrade amendment**  
Thickness ranges 1 to 3 feet

# New Streets



**Surface Condition = 100**

## Surface Condition over Time



# Preventive Maintenance

## Joint – Crack Sealing



**“Spending \$1 on pavement Preservation  
can eliminate / delay spending \$6 to \$10  
on future rehab / reconstruct”**



# Preventive Maintenance

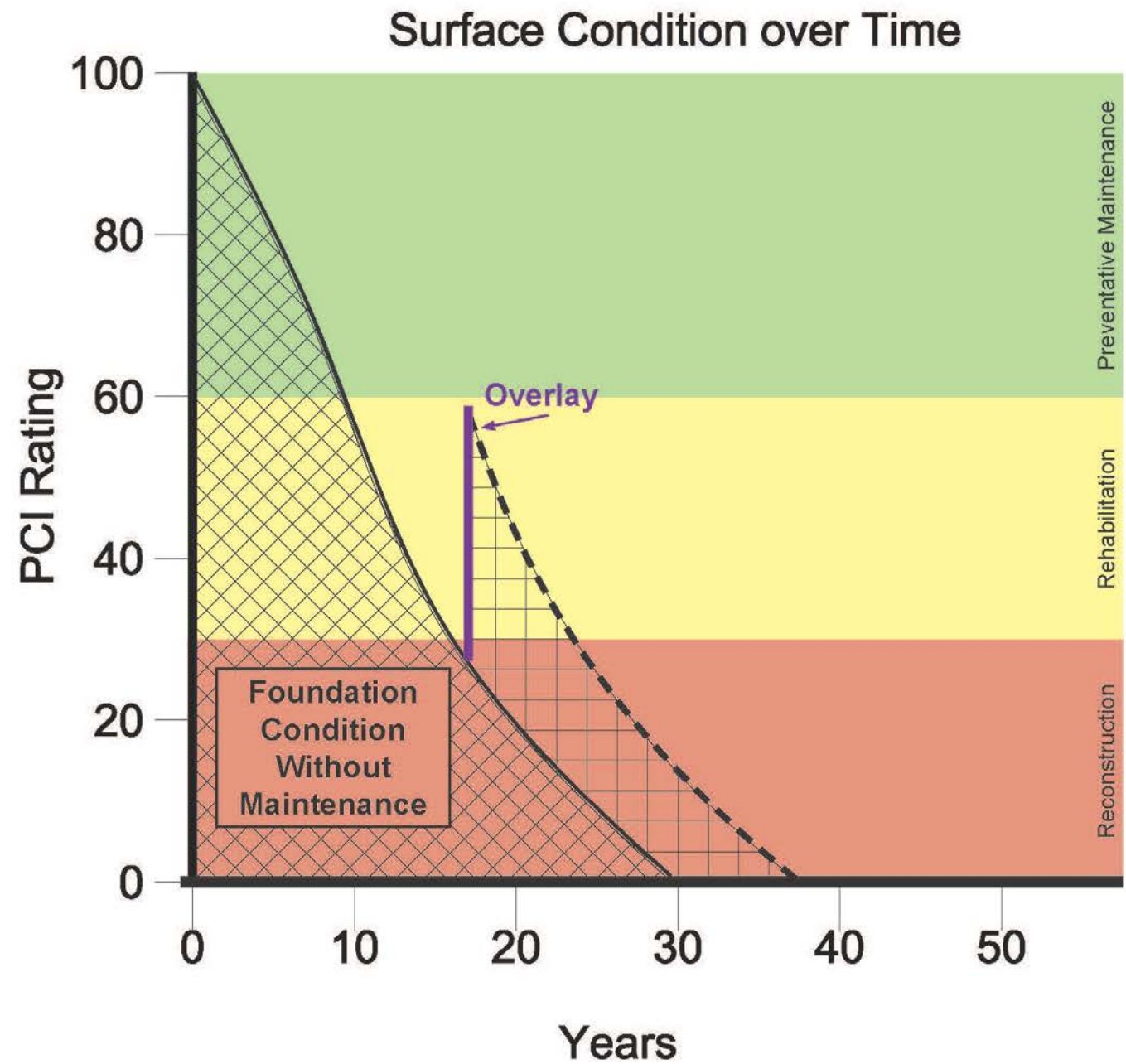


Seal Coating



# Preventive Maintenance – Chip Sealing





# Preventive Maintenance – Mill & Overlay



# Resurfacing (Mill & Overlay)



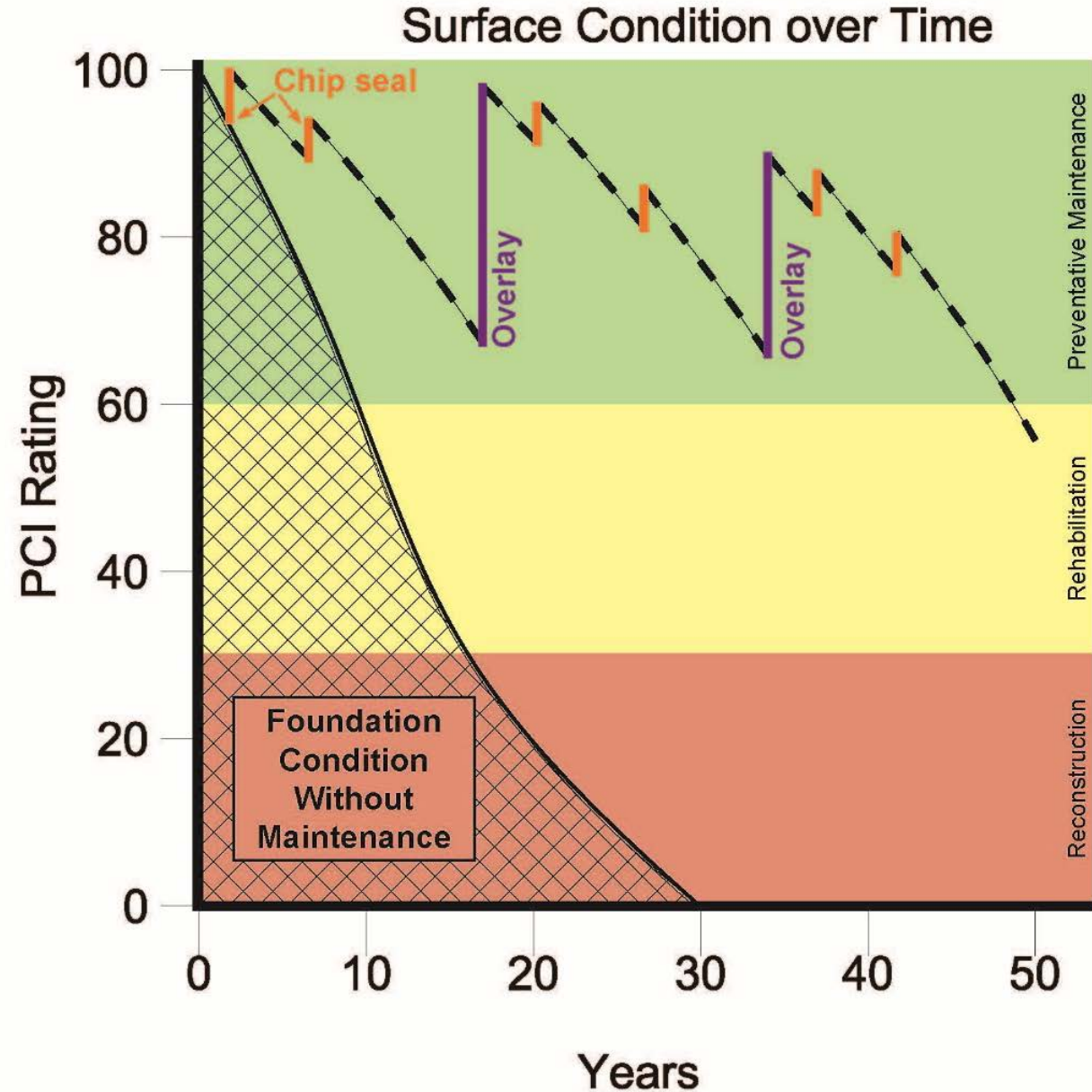
# Street Reconstruction



# Goal – Obtain 50 yr Life

Requires:

- Periodic Joint Sealing and Pothole Patching
- 6 Chip Seals
- 2 Mill / Overlays



# Annual Funding Needs

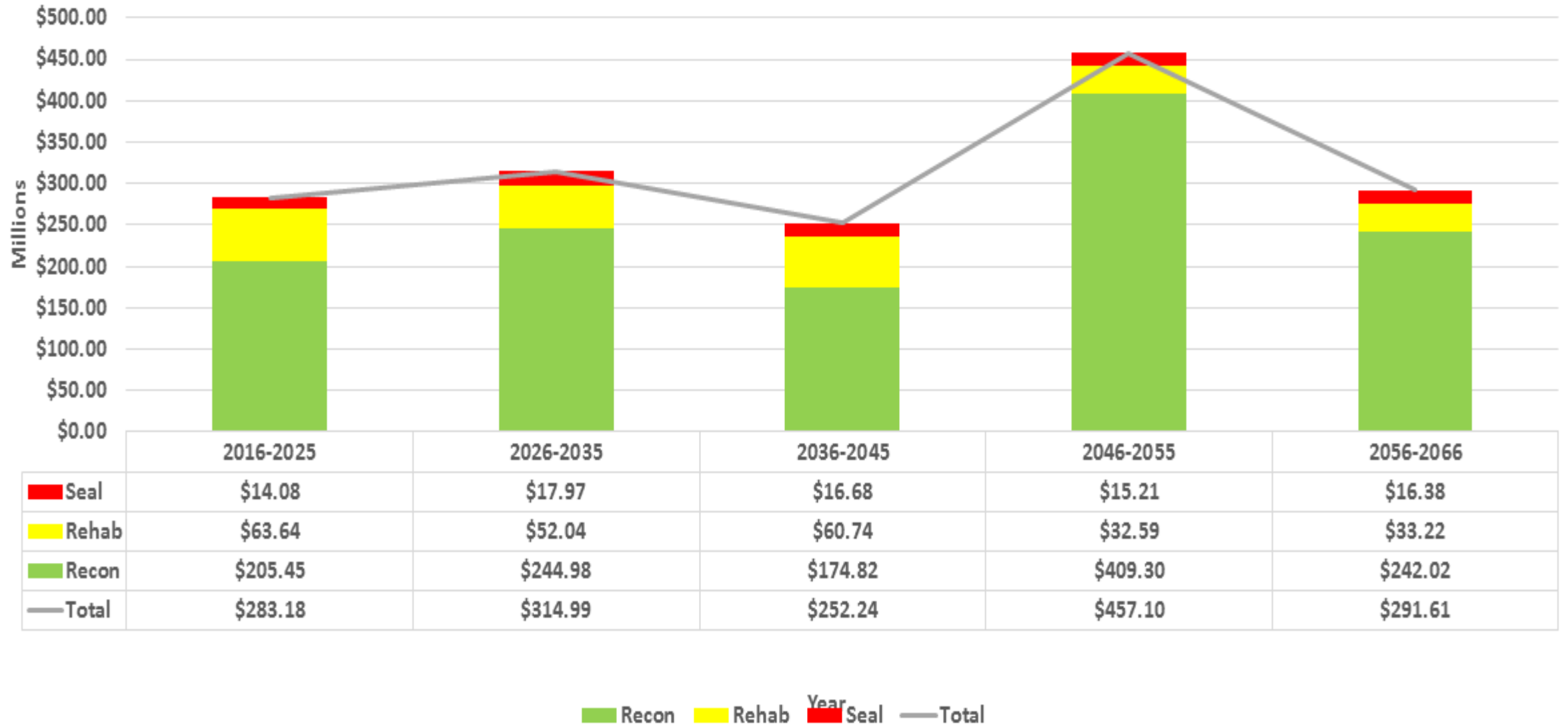
| • Category                        | Current Funding | Funding Need    |
|-----------------------------------|-----------------|-----------------|
| • Preservation (seal coats)       | \$ 0.2 M        | \$1.6 M         |
| • Rehabilitation (mill / overlay) | \$1.8 M         | \$4.8 M         |
| • Construction / Reconstruction   | <u>\$ 7.0 M</u> | <u>\$25.5 M</u> |
| Totals:                           | \$ 9.0 M        | <b>\$31.9 M</b> |

***Shortfall \$22.9 M***

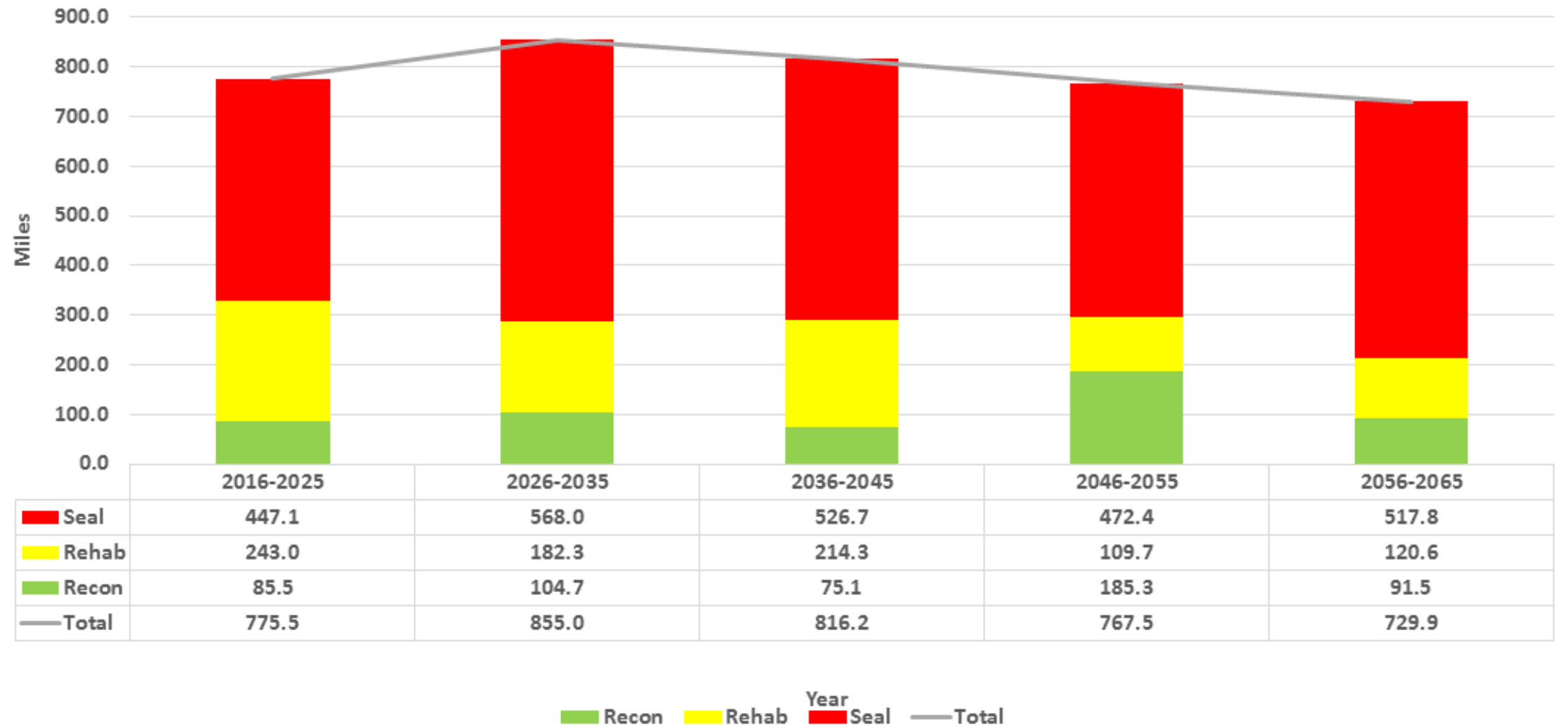
## Future Annual Needs



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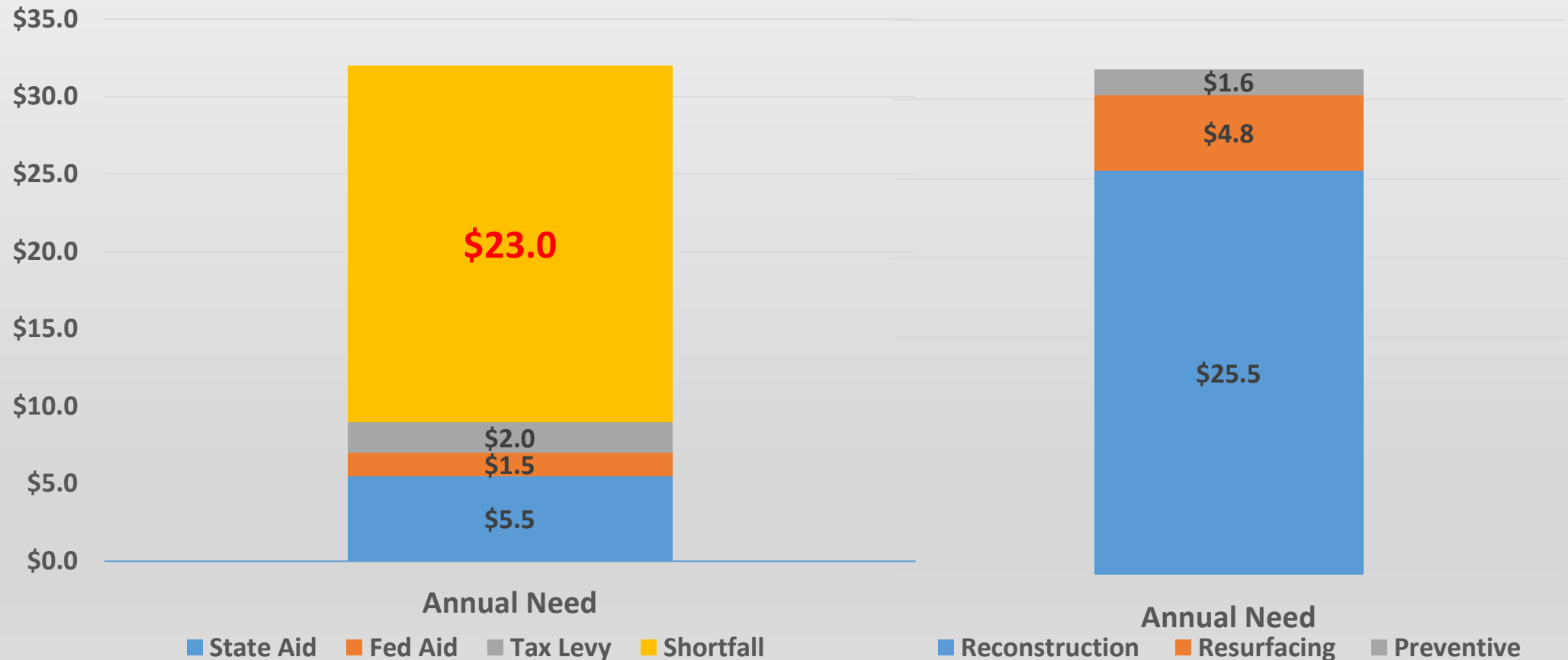


Future Annual Needs



# Annual Funding Need -- \$32 million

## Shortfall -- **\$23 million**



# Investment Strategies

## \$23 M/Year Gap



- Special Assessments – Traditional Answer
- Tax Levy
- Street Utility Concept / Franchise
- G.O. Improvement Bonds – (tax or utility supported)
- Other ?
- Some Combination of the Above

# Street Assessments

- Traditional method
- Falls Short
  - Follows Mn Statute 429
  - Prove benefit of like amount – does not always translate to market value
  - Ten-year assessment for 20 year improvement
  - Transfers of ownership affect benefit of investment
  - Hearings / petitions / neighbors against neighbors
  - Only done for Reconstructions; not Preventative Maintenance

# Tax Levy

- \$23 million / \$57 million 2016 levy = 40% increase
- Grow to this \$23 million / year over time
  - Each additional \$1 million in levy
    - Residential
      - = 1.8% increase in City Levy, 0.65% increase in Total Property Tax Bill
      - = \$16 / year for a \$192,000 (median) home
      - = \$27 / year for a \$300,000 home
    - Commercial
      - = 1.75% increase in City Levy, 0.5% increase in Total Tax Bill
      - = \$42 / year for a \$270,000 small business
      - = \$175 / year for a \$1,000,000 business
      - = \$2,266 / year for a \$12.5 million large business
  - Income Tax Deductible
  - Does not recover \$ from property-tax exempt parcels who benefit
  - Subject to levy limits if / when those return

# Street Utility Concept / Franchise Fee

- [illegible]

# G.O. Capital Improvement Street Bonds

- Provide some “up-front” funding to meet immediate need or backlog? (+)
- Perhaps in combination with “pay-as-you-go-funding” of franchise or tax levy
- Dedicate a portion of annual funding towards debt service payments
- Each \$1 million in annual cash flows dedicated towards debt generates roughly \$15 million in “up front” project funding (20 year bond, 3% interest).
- Would not want to tie up all street revenues for debt payments, but perhaps some limited percentage of annual flows?

# Other Strategies

- Do nothing
- Combination of the above alternatives?
  - Increase annual tax levy support to Pavement Maintenance Program
  - Provide incremental increases over a defined period of time until NEEDS are met
  - Modify / update Assessment Program
- Other?
  - Petition & Wait for State Legislature to pass a “Street Utility”
  - Solar Roadways Public/Private Partnership? (Missouri Example)
  - Other ideas?

# Next Step

- Adopt a Strategy for 2017 and beyond
- Meet August 22<sup>nd</sup> -- Committee of the Whole
- Desired Outcome – A Funding Strategy
  - i.e. “Develop a 10 year Strategy to increase funding incrementally by \$2 million per year for the next 10 years” *or*
  - i.e. “Develop a 5 year Strategy to increase funding incrementally by \$4 million per year for the next 5 years” *or*
  - i.e. “Develop a 6 year Strategy to increase funding incrementally by \$1 M (2017), \$2 M (2018), \$3 M (2019), \$4 M (2020), \$5 M (2021), & \$6 M (2022)” *or*
  - i.e. “Develop a multi-yr Strategy to create / dedicate Franchise Fees to pay for Preventive Maintenance and a multi-yr Strategy of tax levy increases to pay for Rehab & Reconstruction Projects”