



***ACEC/MN
County Forecasting Seminar
Wright County (2017-2021)
May 20, 2016***

WRIGHT COUNTY HIGHWAY SYSTEM

All Wright County Highway Miles are Paved

Mileage Breakdown:

County State Aid Highways (CSAH)	408 miles
County Roads (CR)	<u>103 miles</u>
Total Mileage	511 miles

Bridges: (91 Total)

39 County Highways

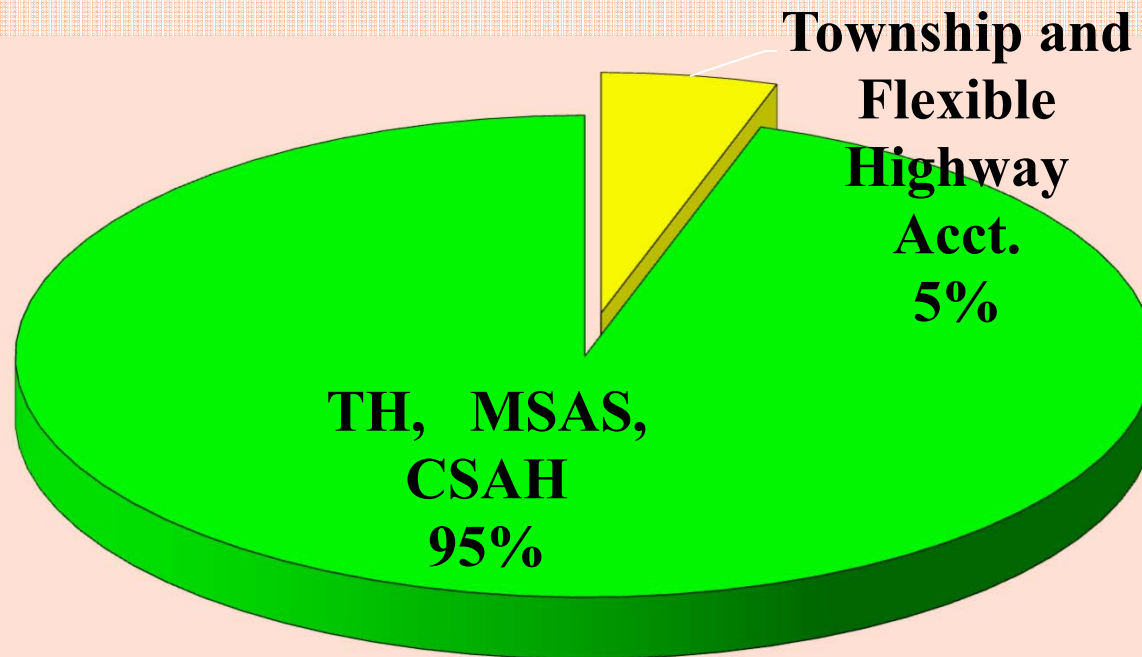
52 City, Township, RR, and Private.



MINNESOTA HIGHWAY SPLITS

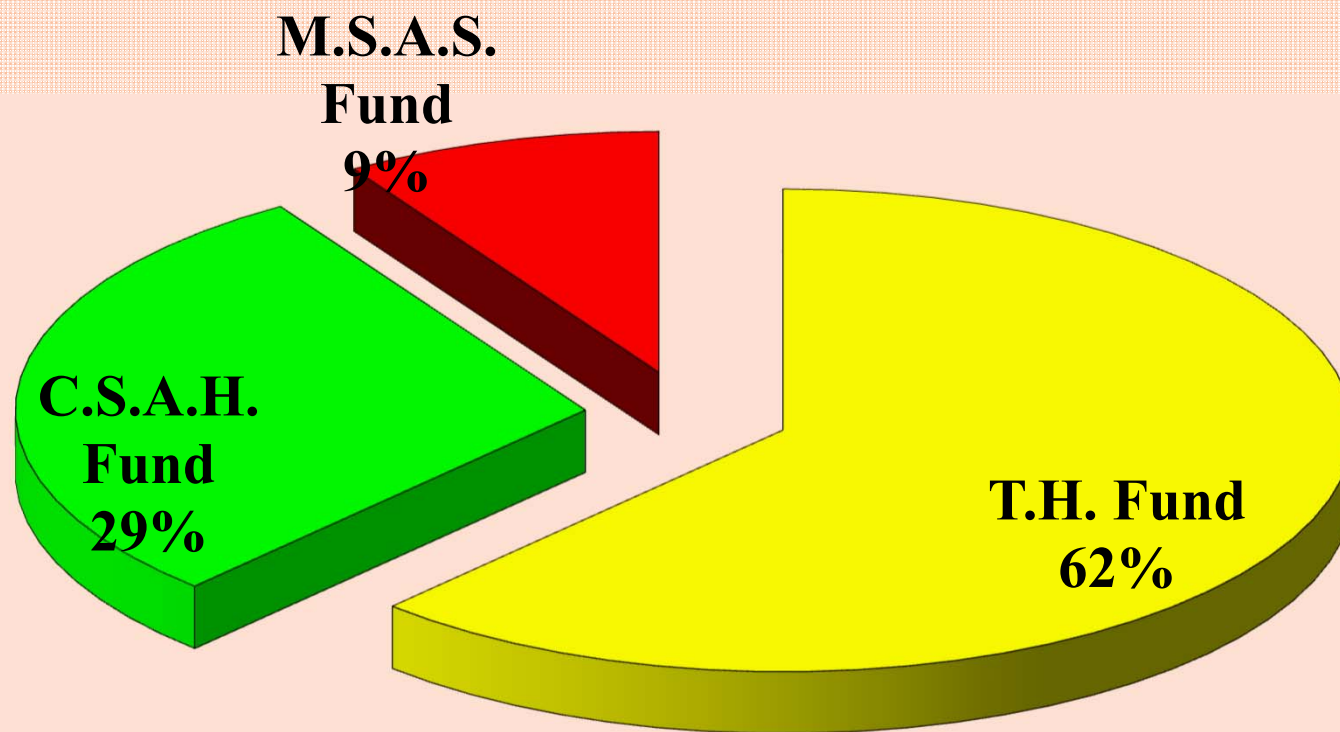
Revenue Sources

Fuel (28.5 cents/gal), Vehicle Registration & 60% of Vehicle Sales



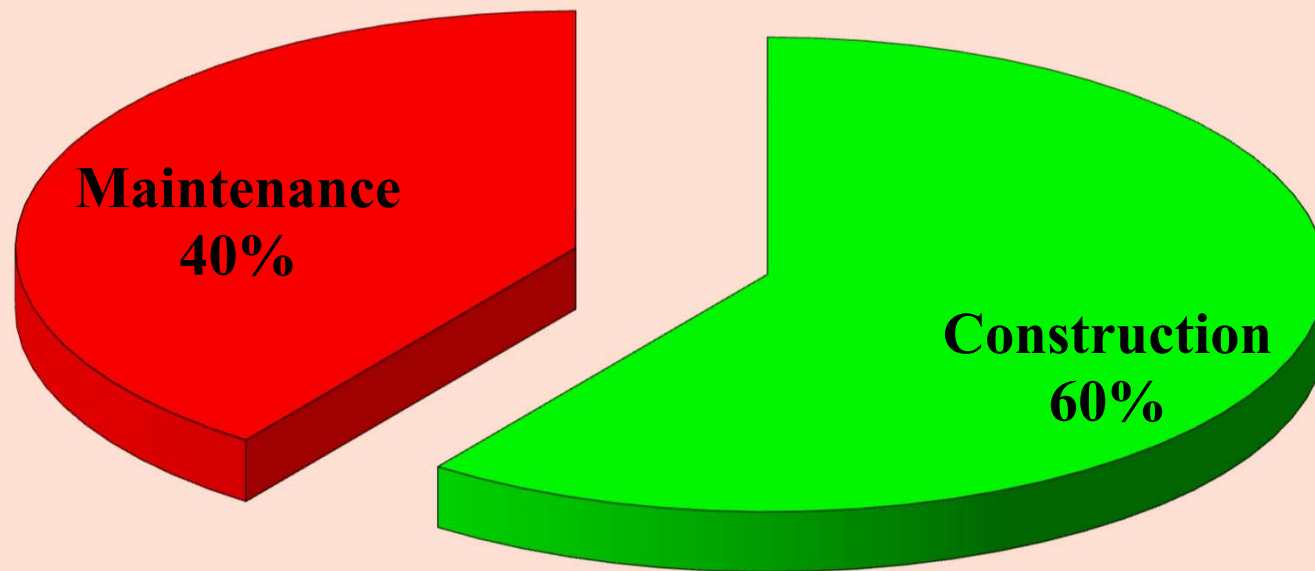
MINNESOTA HIGHWAY FUNDING

95% Distribution Splits



COUNTY STATE AID FUNDING

Funding Split



PROJECTED AVAILABLE FUNDS

(MAINTAIN CURRENT FUNDING LEVELS)

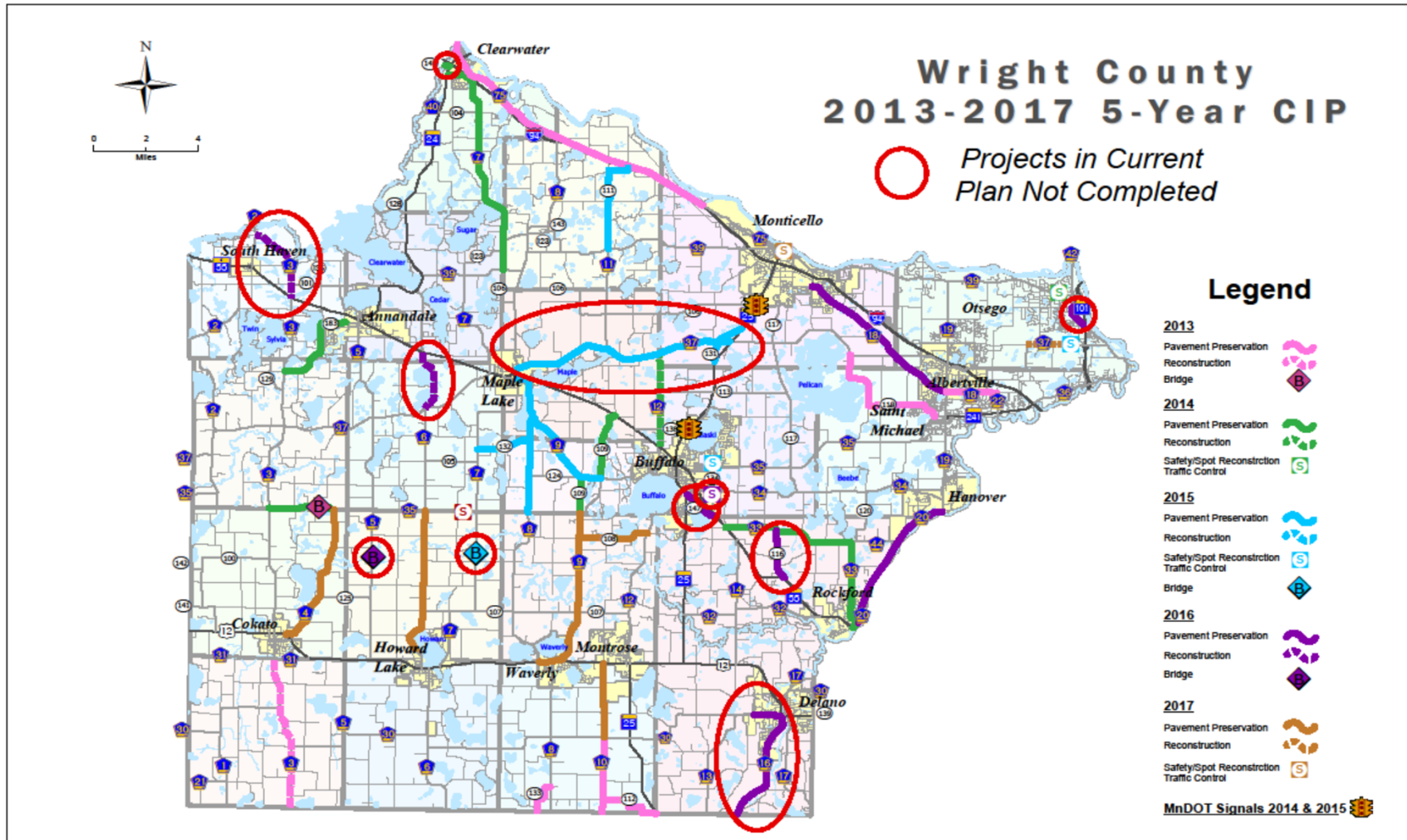
- State-Aid Construction= \$6,000,000
- Municipal S.A. Construction = \$500,000
- Local Levy = \$3,500,000
 - Anticipated based on recent years
- Federal = Variable
- **TOTAL = \$10,000,000 + Fed \$\$**

PROPOSED NEEDS - ANNUALLY

- 25 miles Overlay - \$6,000,000
- 4 miles reconstruct - \$4.0-\$7.5 Million
 - Based on what we can deliver with Wright County Highway Design/Inspection Staff.
- Safety / Bridge Projects - \$1,500,000
- Annual Need- \$11 Million to \$14.5 Million
 - Maintain current system pavement condition, safety and capacity

2013-2017 PROJECTS NOT COMPLETED

(DUE TO INADEQUATE TRANSPORTATION FUNDING LEVELS)

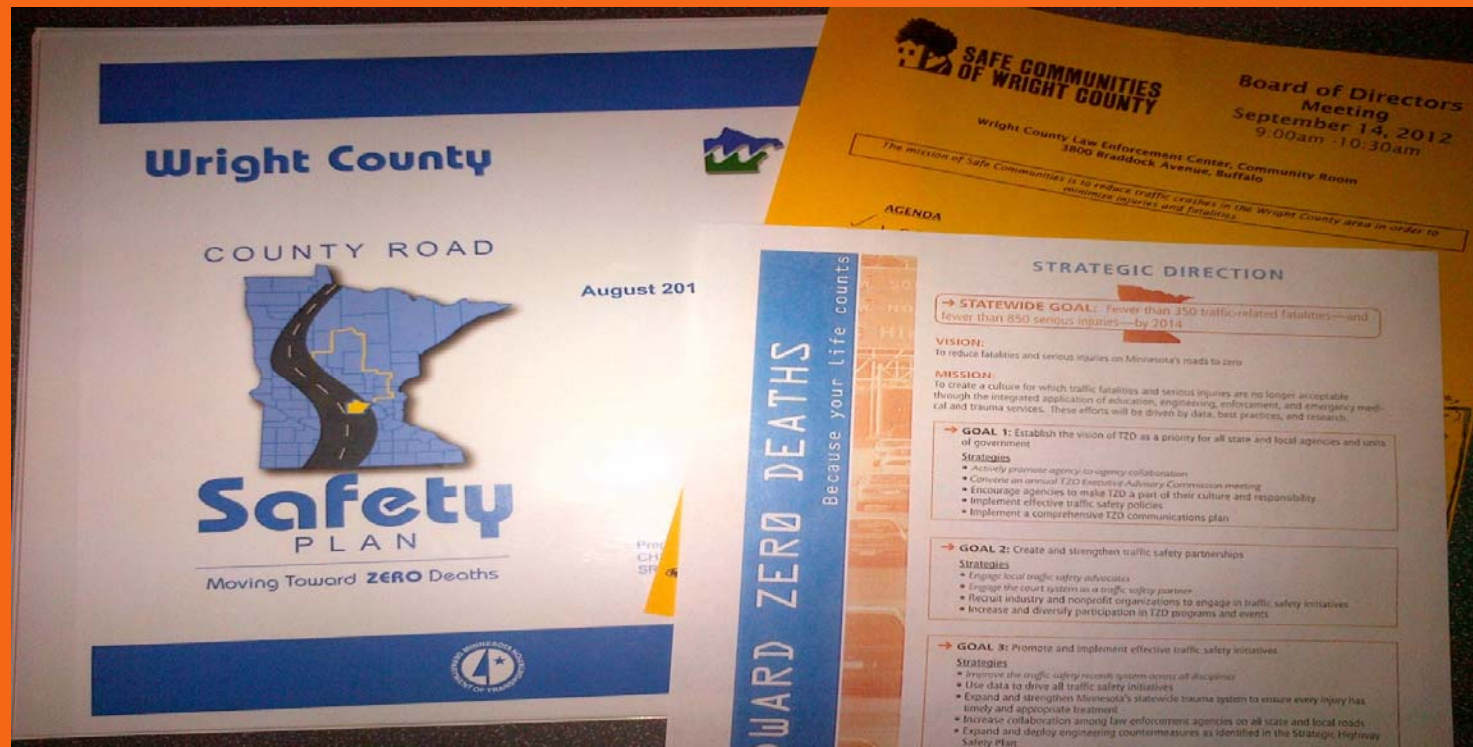


PROJECT TYPES

- **Safety/Bridge (\$800,000 to \$1,500,000)**
 - Usually lower cost spot improvements
 - Signing, Lighting, Turn Lanes, Roundabout, Trails
- **Preservation - \$180k to \$250k per mile**
 - 10-15 year "fix" to maintain
- **Reconstruction**
 - \$1,500,000+/- per mile
 - Add shoulders, build up sub-base, improve clear zones
 - Correct Geometric deficiencies
- **Expansion**
 - 2-lane to 4-lane - \$5,000,000+/- per mile

SAFETY INITIATIVES

- Road Safety Plan – Low Cost System Wide Improvements
- Towards Zero Deaths (TZD)
- Safe Communities of Wright County



PRESERVATION

CSAH 8



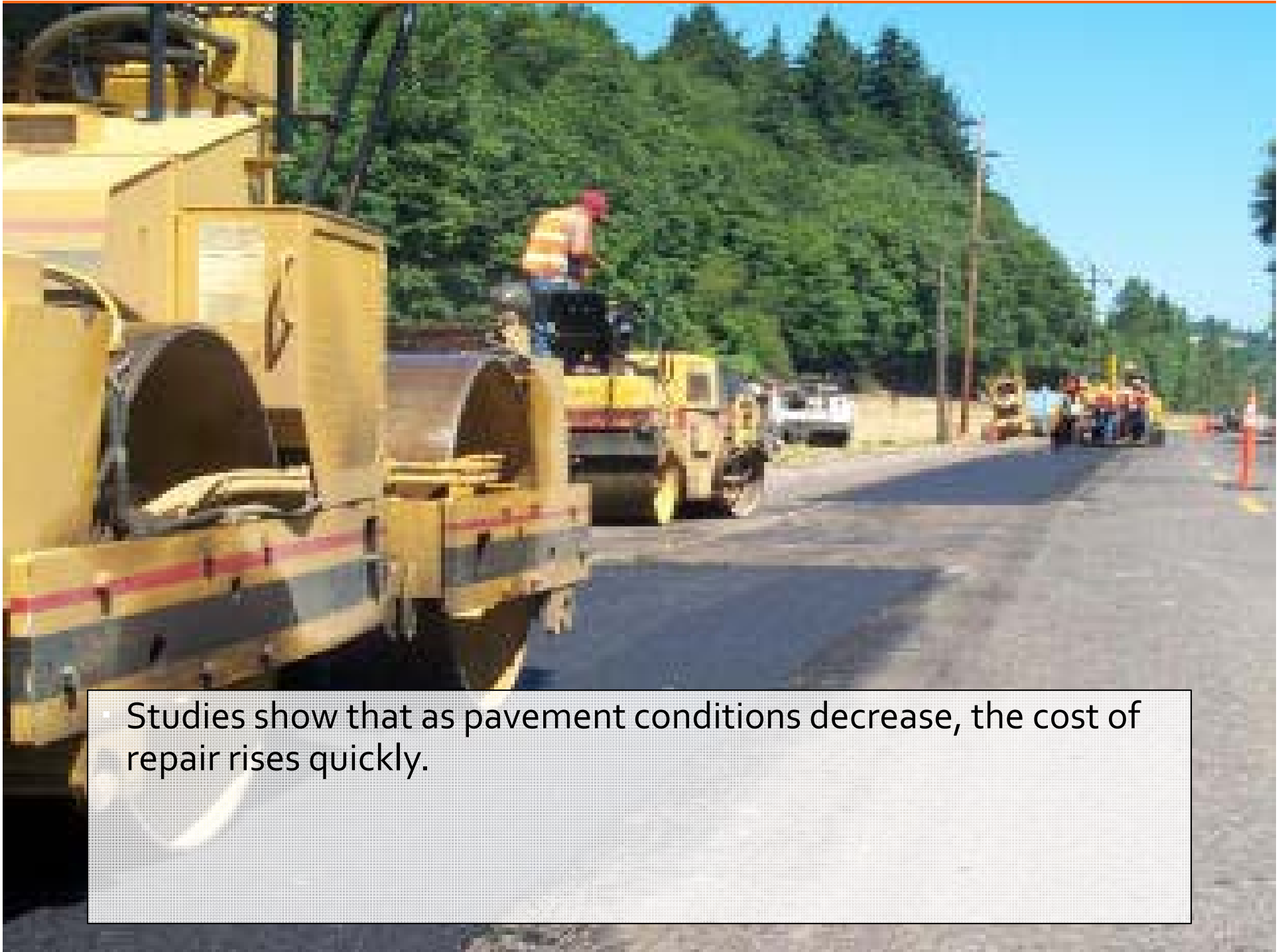
RECONSTRUCTION – CSAH 12





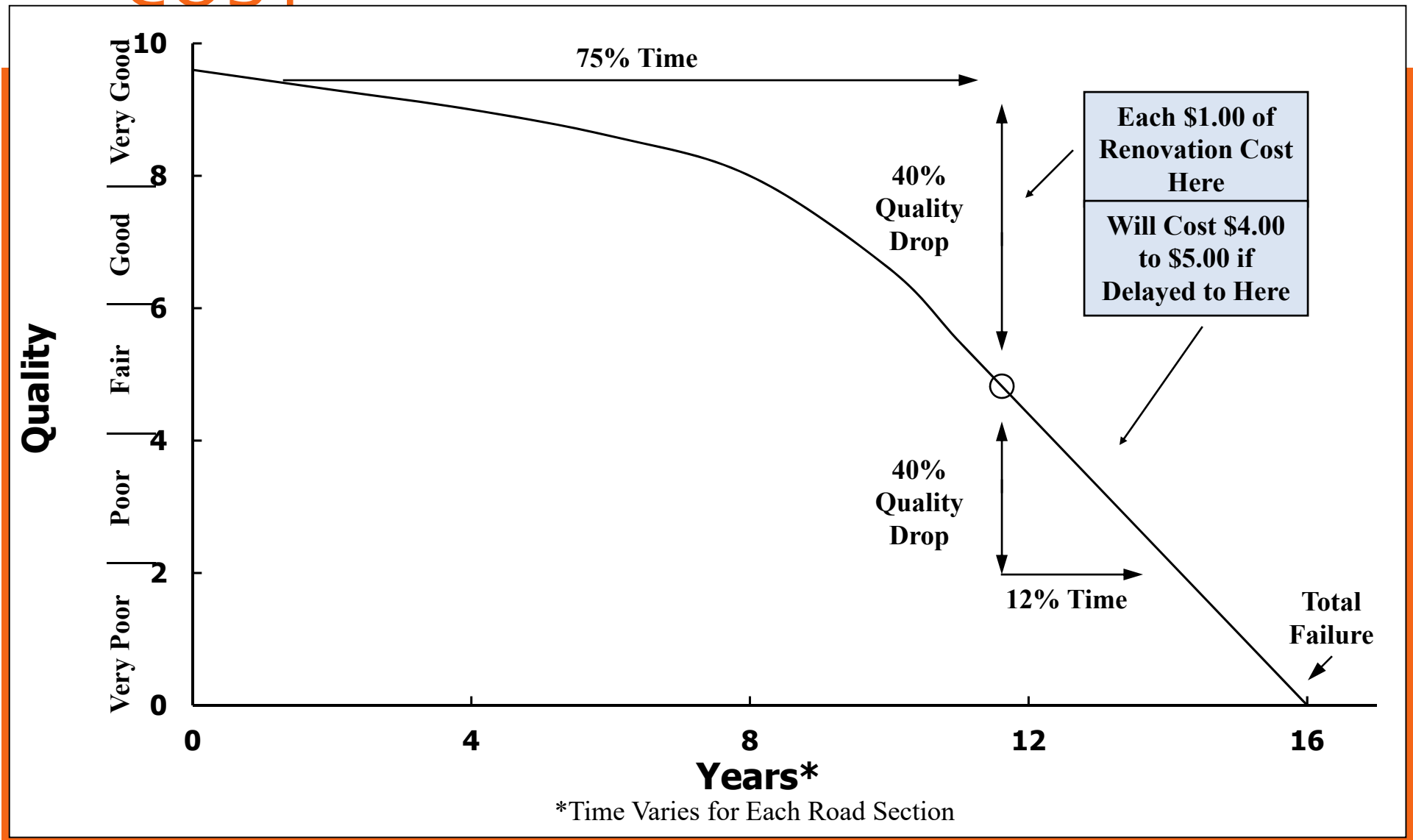
*The Right Repair
At the Right Time*

Wright County Highway Department



Studies show that as pavement conditions decrease, the cost of repair rises quickly.

LOWEST ANNUAL RESURFACING COST



PAVEMENT MANAGEMENT

Pavement Management is a tool to make effective economic decisions in a systematic and fair way.

Pavement Management aids in prioritizing Highway maintenance projects.

MNDOT DIGITAL INSPECTION VAN



Image



Image / Location Data

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 Lat +45.2226944 Lon -93.6645126
 Heading 180.8°
 Co: 86 Name: CS19
 DATE 08/10/2005 From: 005
 FRfPost: 5.000 TRfPost: 4.000
 IRI L m: 2.92 IRI R m: 3.47
 RUT L e: 0.29 RUT R e: 0.30

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3	4	

Skip feet

Video Log



*Planning for
The Future*

2017 – 2021 DRAFT PLAN

Five -Year Highway Plan and 20-Year Work Plan

Wright County Highway Department 2017-2021

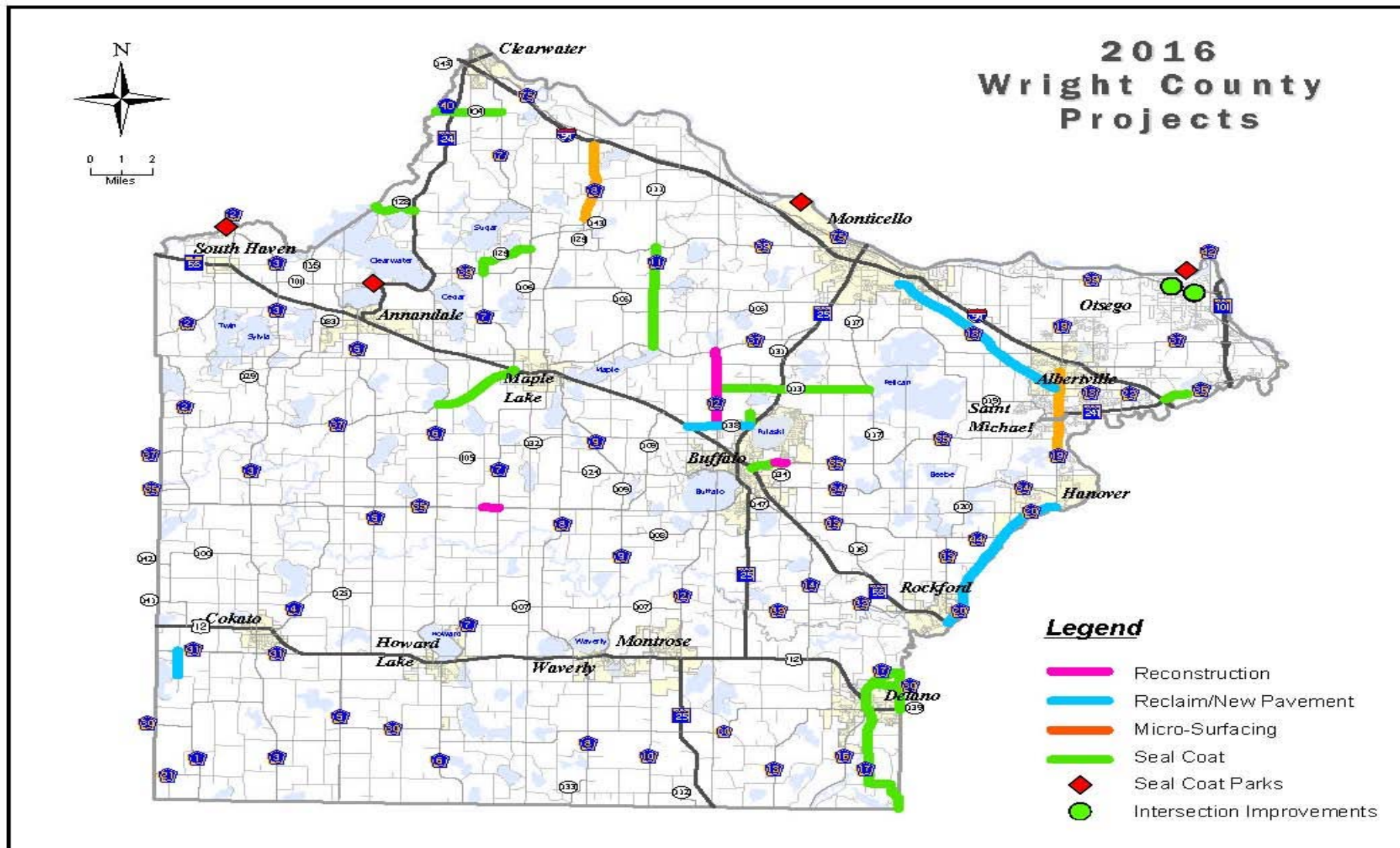
FISCALLY CONSTRAINED PLAN

Plan based on following funding anticipated:

- State Aid Funding – \$6.0 Million annually
- Municipal SA Funding - \$500,000 annually
- Local Levy - \$3,500,000 – annually (based on recent years)
- TOTAL - \$10,000,000 + Federal Funds (variable, year by year)

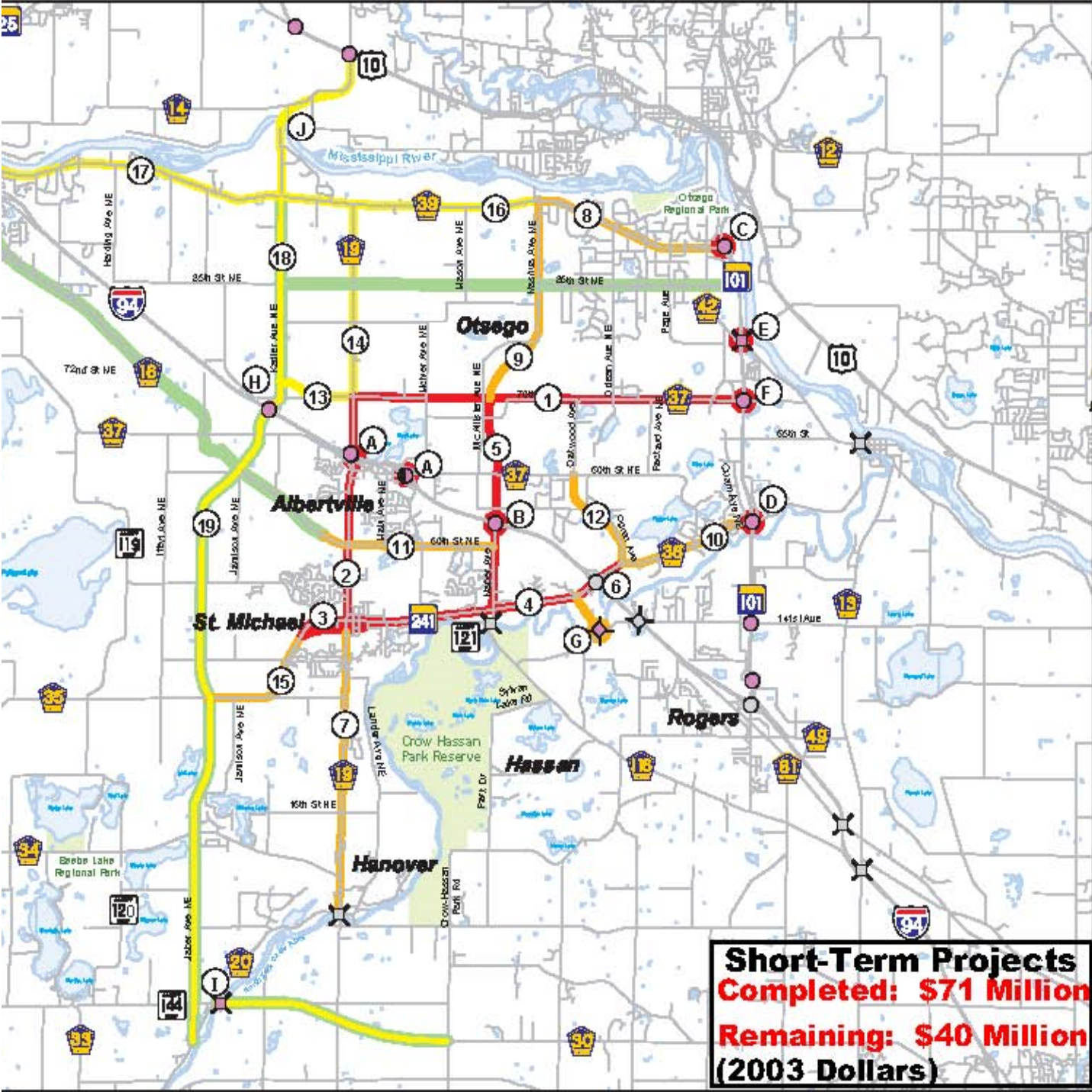
- Annual Need Estimated - \$11 Million to \$14.5 Million

2016 PROJECTS



Northeast Wright County Sub-Area Study

Figure 24
Recommended Staging of Major Improvement Projects



Legend

- Short-Term (2004-2015)
- Mid-Term (2015-2025)
- Long-Term (2025-2040)
- ROW Preservation (2004-2040)
- Existing Interchange
- Proposed Half Interchange
- Proposed Full Interchange
- Existing Bridge
- Future Bridge
- Denotes Reference Number in Tables 19-21

Notes:

1. Proposed system plan has two options for treatment of access at I-94/CSAH 37 (A); one option is for half-diamond interchange to and from the east.
2. River crossing location/alignment to be determined (J).



Short-Term Projects
Completed: \$71 Million
Remaining: \$40 Million
(2003 Dollars)

2017 PROJECTS – YEAR 1

CSAH 3 Reconstruction - \$3.4 Million
State Highway 55 to CSAH 2

Intersection Warning Systems - \$200,000
\$180,000 in Federal Funds

Overlays (25 Miles) - \$6.0 Million
Mill/Overlay and Reclaim Overlay

2017 Total Program Estimate = \$9,600,000

2018 PROJECTS – YEAR 2

CSAH 37 Reconstruction - \$3.5 Million

TH 101 to Odean (\$1.53 Million Fed Funds)

Safety Project – \$930,000

CSAH 34/CR134 RAB and pavement to TH 55

Overlays - \$7.6 Million

CSAH 3 TH 12 to CSAH 35 (\$980,000 Fed Funds)

CSAH 3 Reconstruct (\$270,000 Fed Funds to pave shoulders)

2018 Total Program Estimate = \$12,030,000

2019 PROJECTS – YEAR 3

CSAH 19 Reconstruct / Expansion - \$5.0 Million

Alberville Outlet Mall to 70th Street

\$2.3 Million in Federal Funds

County & City (Alberville/Otsego Local Funds)

CSAH 37 Reconstruction - \$2.0 Million

CSAH 19 to Maciver

\$919,000 2018 Otsego Federal Funds

Safety or Bridge Project - \$1.0 Million

Overlays (25 Miles) – \$6.5 Million

2019 Total Program Estimate = \$14,500,000

2020 PROJECTS – YEAR 4

Overlays (25 Miles) - \$6.5 Million

Safety Project - \$1.0 Million

CSAH 7 Bridge - \$1.5 Million

2020 Total Program Estimate = \$9,000,000

2021 PROJECTS – YEAR 5

Overlays (25 Miles) - \$6.5 Million

Safety Project - \$1.0 Million

Bridge (CSAH 5 or CR 108) - \$1.5 Million

2021 Total Program Estimate = \$9,000,000

6-20 YEAR WORK PLAN

Reconstruct CSAH 37 (TH 25 to CSAH 19)

10 miles with ADT 3,000-6,000

Reconstruct / Expansion? CSAH 36 (I-94 to TH101)

1 mile with ADT 7,000

Reconstruct / Expansion CSAH 39 (CSAH 19 to CSAH 42)

5 miles with ADT 7,000-10,000

CSAH 42 (85th St to TH 101)

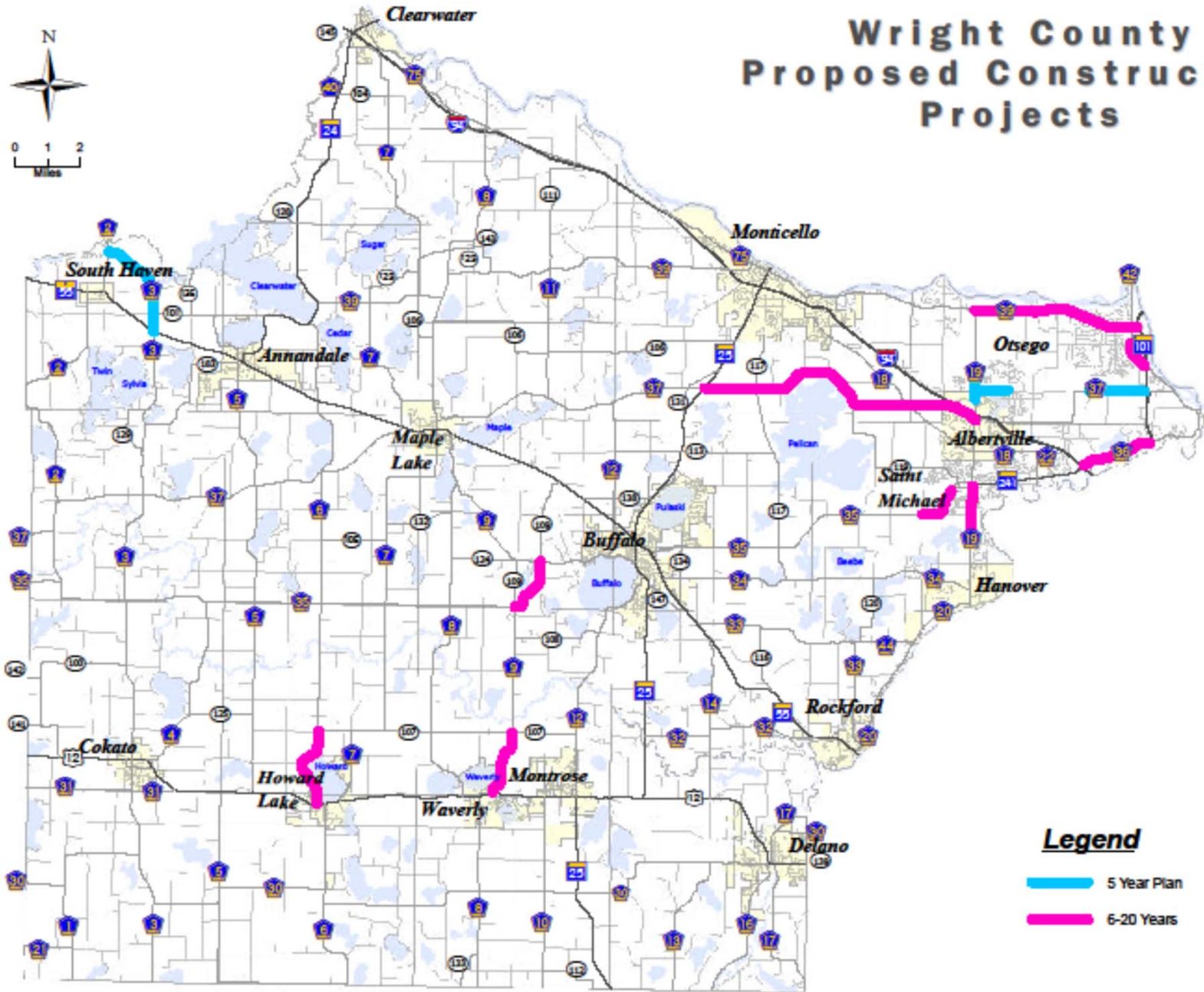
1.0 mile with ADT 6,500

Expand to 4-lane? CSAH 19 (South of CSAH 35)

ADT 11,900

Reconstruct / Expansion ? CSAH 35 (west of 1-way Pair)

Wright County Proposed Construction Projects



Legend

- 5 Year Plan
- 6-20 Years

BRIDGE REPLACEMENT PRIORITY LIST

Bridge #	Road	Sufficiency Rating
90700	CSAH 7	51.9
90687	CR 108	52.6
7164	CSAH 5	55.0
7244	CSAH 2	62.1
L9396	Meridian Ave. (Franklin)	39
L8126	Keats Ave. (Middleville)	73
L8124	60 th St (Woodland)	73

QUESTIONS AND COMMENTS

