

Dakota County DRAFT 2040 Transportation Plan

Dakota County Planning Commission May 28, 2020

Meeting Purpose



- Background
- Estimated revenues and investment needs
- Key Outcomes
 - By Plan Goal
- Highlight Significant Changes
 - Policies
 - Practices





Key Starting Points

- 2030 Plan provided solid basis for investment
 - The County transportation system is in good condition
- Transportation technology and Pedestrian and Bicycle accommodation growing considerations
- County transportation revenues have increased
 - Other agencies have not kept pace
- Traffic growth less than anticipated in 2030 Plan
 - COVID-19 implications?



Residential Survey Findings

- High Ratings for:
 - Condition of County roads
 - Availability of bike and pedestrian options
 - Quality of snow and ice services
- Concerns with congestion have diminished
- Public transportation not identified as a top concern
- State Trunk Highways are a primary concern



Travel Demand Model Findings

- Traffic continues to grow (1%), but not as fast as previous (2+%)
- Travel habits are changing and people are not traveling as much
 - Comp plan densities
 - Telework and virtual commerce
 - Bike/Ped mode increases
- 2040 projections similar or lower than 2030 projections

Acknowledge unknown COVID-19 impacts

- Population and employment growth, societal changes, and behaviors affecting highway congestion and transit
- Unknowns affecting transportation investment needs





Engagement Activities

Agency Engagement

- 3 School Districts
- 6 Cities
- 2 Chambers of Commerce
- 9 Townships

Top Comments/Concerns

- Safety and management
- Concerns with Trunk Highways
- Intersection control
- Trails, cost-share, transit role

Public Engagement

- 9 In-person activities (pop-up events, community events and listening sessions)
- 1,300 Responses to surveys, interactive maps and ideas board

Top Comments/Concerns

- Traffic congestion or delay
- Walking and bicycle safety
- Availability/reliability of transit
- Driving safety and comfort



Agency Sub-Committees

- County Highways
 - Cities
- Trunk Highways
 - MnDOT, Met Council, Cities
- Transit and Multi-Modal
 - MnDOT, Met Council, Transit Providers, Cities

Transportation Plan Principles



Principles apply to all Plan goals, transportation system development and operations

- Alignment with County Comprehensive Plan principles
 - Updated Transportation Specific Principles
 - Transportation Safety and Standards
 - Transportation Planning
 - Social, Economic and Environmental Impacts (SEE)
 - Public and Agency Involvement
 - Context-Sensitive Design and Complete Streets
 - Transportation Technology
 - ADA Transition Plan

Goal 1: Resources



Key Outcomes/Highlights

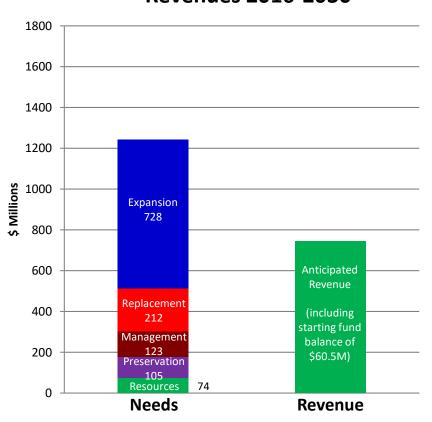
- Need vs revenue approach thru 2040
 - No COVID-19 implications included for needs or revenue
- Estimated revenue: \$1.36 billion
- Estimated proposed needs: \$1.65 billion
 - Net annual 2% inflationary reduction
 - No Trunk Highway investment



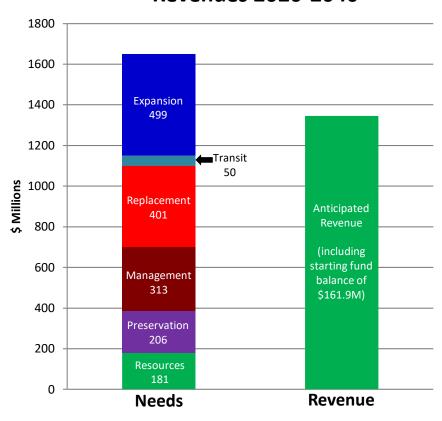
Goal 1: Resources



Dakota County Highway Needs and Revenues 2016-2030



Dakota County Highway Needs and Revenues 2020-2040



Goal 2: Preservation



Key Outcomes/Highlights

Top priority to minimize system life cycle costs

- Pavement and bridge investment similar to current
- Pedestrian and Bike Facilities (trails) pavement
 - Propose 100% County cost and management
 - City's retain snow and ice control
- Retaining Walls and Rail Crossings added
- Develop comprehensive city maintenance agreements

Goal 3: Management



Key Outcomes/Highlights

Investment for safety and to defer expansion

- Jurisdictional Transfers updated
- Pedestrian and Bike Trail Gaps
 - Needs address priority trail gaps and highway crossings including Greenways (Approx. \$4 M annually)
 - Propose including stand alone projects as "Modernization"
- Rural intersection safety set aside
- Roundabouts 15% city base plus 15% per city leg



Key Outcomes/Highlights

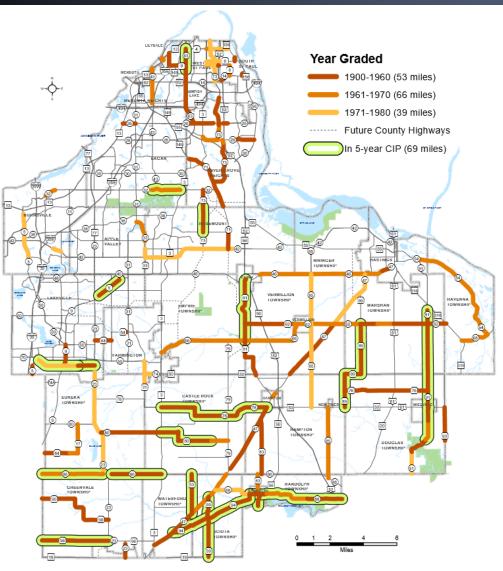
Replace and Modernize aged infrastructure

- Propose that Modernization inclusive of:
 - Turn lanes, medians, shoulders, trails and zone lighting, etc. <u>in any combination</u>
- Highway Replacement: 6 miles/year
 - 80 years old or more by 2040
 - 34 miles in MSA cities
 - Propose 15% vs. 25% City share
- Bridge Replacement limited
- 2- to 3-lane modernization and through-lane reductions
 - Recognition of safety and operational benefit
 - 4-lane sections with ADT < 80% of 3-lane capacity



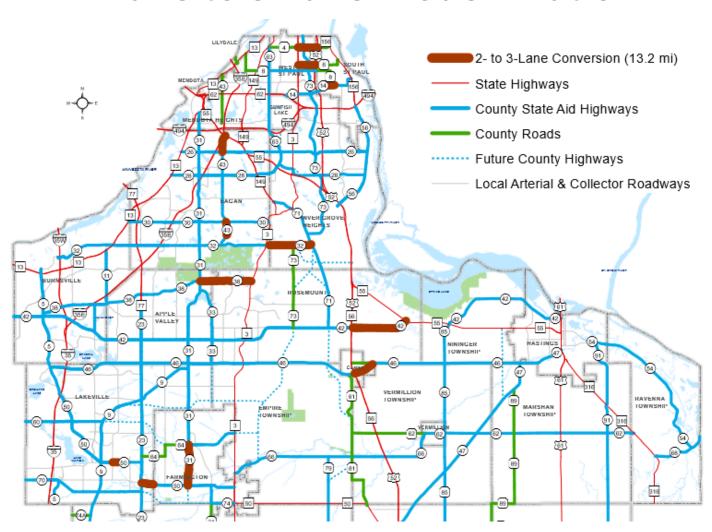


Road Age



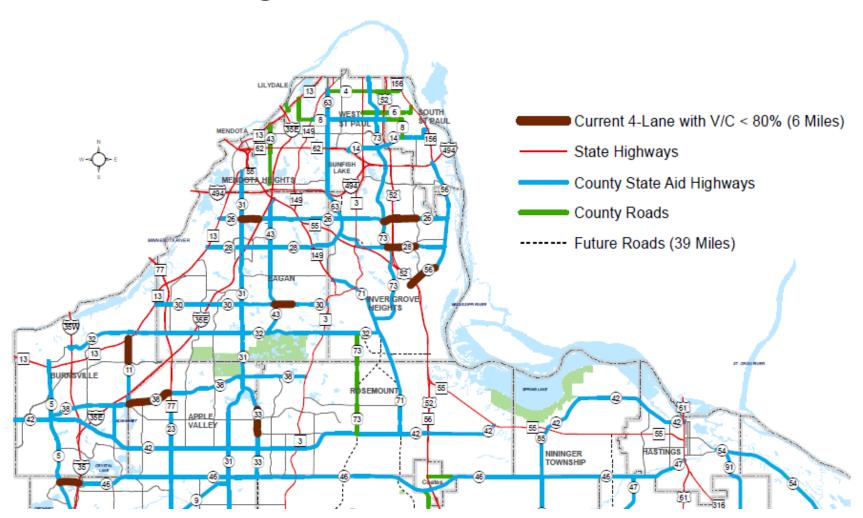


2-Lane to 3-Lane Modernization





Through Lane Reduction Candidates



Goal 5: Transit and Transitways



Key Outcomes/Highlights

Defines spectrum of Transit services and applicability

- Recognition of diverse Post-CTIB transit needs
 - Refined County role and objectives Partner
 - Propose County option to participate up to 50%
- Transit Enhancement
 - Capital investment, pilot projects, new service proposals
- Transitway Enhancement
 - Orange Line operating
 - Orange Line extension capital and operating
 - Red Line infill walk up stations

Goal 6: Expansion



Key Outcomes/Highlights

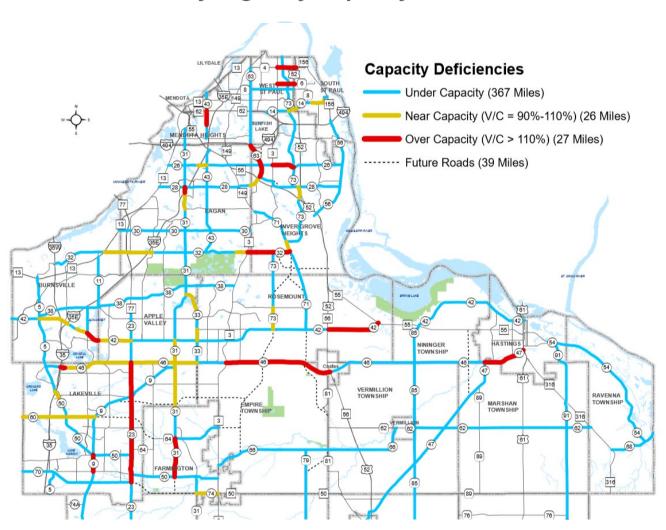
Increased capacity to accommodate future travel demand

- Expect growth less than Travel Demand Model forecast
 - Downward trend in traffic, technology, COVID
- "Near Capacity" at 90 to 110% of existing road capacity
 - No needs assumed for these segments
- Lane Additions/Expansion at > 110% of capacity
- Future County Highway Alignments
 - Assumes initial 2 or 3 lane section
 - Excludes Empire and Nininger Twp. alignments

Goal 6: Expansion



Dakota County Highway Capacity Deficiencies, 2040



Goal 6: Expansion



Key Outcomes/Highlights

- County Highway Interchanges > 75,000 entering ADT
 - 2 locations vs. 8 in current Plan (Previously > 70,000 ADT)
- Trunk Highway project participation case by case
 - Participate in preliminary engineering to scope
 - No needs identified
 - May require additional revenue if intent is to meet County needs first

Total Investment Needs



DRAFT Anticipated Investment Needs*

	TOTAL Investment Needs by Time Frame (5-5-10 years)											
	2021-2025				2026-2030				2031-2040			
REVENUE/EXPENSE		CSAH	CR		CSAH		CR		CSAH		CR	
Preservation	\$	7.38	\$	2.48	\$	7.75	\$	2.48	\$	8.03	\$	2.51
Management	\$	11.32	\$	4.83	\$	10.70	\$	6.81	\$	8.67	\$	5.79
Replacement & Modernization	\$	17.90	\$	8.98	\$	24.27	\$	2.47	\$	12.60	\$	0.66
Transit & Transitways	\$	-	\$	0.98	\$	-	\$	4.45	\$	-	\$	2.30
Expansion	\$	12.03	\$	0.50	\$	23.91	\$	0.50	\$	30.91	\$	0.50
Resources	\$	4.80	\$	2.50	\$	8.24	\$	1.95	\$	7.68	\$	1.63
TOTAL (by CSAH & CR)	\$	53.43	\$	20.27	\$	74.87	\$	18.66	\$	67.89	\$	13.39

	CSAH & CR Combined	CSAH & CR Combined	CSAH & CR Combined
ANNUAL OVERALL TOTAL	\$ 73.70	\$ 93.53	\$ 81.28

^{*} Does not include Trunk Highways

Total Investment Needs



Significant Financial Considerations

- Estimated 2040 Needs > Revenues by about \$290 million
 - 2030 Plan \$500 million shortfall
 - Expansion needs over stated?
 - Does not include Trunk Highway investments
- County Road Needs > County revenues by \$133 million
 - Turnback and Gravel Road paving needs overstated?
 - Assumes current level of Levy funding
 - Reliant on use of Transportation fund balance

Summary and Significant Changes



- 2040 expansion needs less than 2030 Plan
 - Even further reduction possible
 - Greater emphasis on 3 lane sections
- Added Transportation Technology Principle
- Spectrum of transit services, more targeted County role
- Increased pedestrian and bicycle focus and investment
- Revenue increased more than needs, but still shortfall
- Proposed City cost sharing changes
 - 100% for trial/sidewalk maintenance
 - 85/15% for Replacement and Modernization with expanded definition
 - Roundabouts

Next Steps



Schedule

CONDAC & City Managers May 15 & 22, 2020

County Planning Commission May 28, 2020

County Board Workshop July 14, 2020

Comp Plan Amendment/Release Draft for Comment

County Board Approval August 18, 2020

Required Comment Period (60 days) Aug-Oct, 2020

Address Comments Oct-Nov, 2020

Plan Adoption

County Board adopt final plan & CPA November 17, 2020

Questions / Discussion

