

Application 01969 - 2014 Roadway System Management 02231 - Dakota County CSAHs 46 (160th St) & 31 (Pilot Knob Rd) Roadway Traffic Flow Improvements Regional Solicitation - Roadways Including Multimodal Elements Status: Submitted Submitted Date: 12/01/2014 4:42 PM **Primary Contact** Hanrahan Suzanne Name:* Salutation First Name Middle Name Last Name Title: Assistant Traffic Engineer **Department:** Transportation Email: suzanne.hanrahan@co.dakota.mn.us Address: 14955 Galaxie Avenue Apple Valley 55124 Minnesota City State/Province Postal Code/Zip 952-891-7177 Phone:* Phone Ext. Fax: Regional Solicitation - Roadways Including Multimodal What Grant Programs are you most interested in? Elements

Organization Information

Name: DAKOTA COUNTY

Jurisdictional Agency (if different): Organization Type: **County Government Organization Website:** Address: TRANSPORTATION DEPT 14955 GALAXIE AVE APPLE VALLEY Minnesota 55124 City State/Province Postal Code/Zip County: Dakota 952-891-7100 Phone:* Ext. Fax:

Project Information

PeopleSoft Vendor Number

Project Name

Dakota County CSAHs 46 (160th) & 31 (Pilot Knob Rd)

Roadway Traffic Flow Improvements

0000002621A15

Primary County where the Project is Located Dakota

Jurisdictional Agency (If Different than the Applicant):

Brief Project Description (Limit 2,800 characters; approximately 400 words)

The proposed project is along CSAHs 46 (160th/162nd St), and 31 (Pilot Knob Rd) located in Apple Valley and Lakeville. The project consists of installing fiber optic cable for signal interconnection, traffic monitoring cameras, flashing yellow left turn arrows, additional primary signal heads, updating signal equipment for the new technology, and retiming traffic signals. Both roadways are classified as A-Minor Arterials, CSAH 31 runs north-south and CSAH 46 runs east-west across the county and are primary arteries serving commercial areas and access to Interstates 35 and 494, and Minnesota Highways 3 and 52. These roadways are heavily used by people living in the metro suburbs and commuting to Minneapolis or St. Paul, and commercial businesses. Dakota County currently has 1 zone of 3 interconnected and time coordinated signals along CSAH 46 and 1 zone of 3 coordinated signals along CSAH 31. The majority of the corridors lengths do not have interconnection equipment in place. The type of interconnection in the short segments that are currently in place is a mixture of copper wire, fiber, and radio. The existing interconnect is aging and is becoming more unreliable. The project consists of the installation of 8.8 miles of fiber optic cable and upgrading signal equipment for fiber optic use (cabinets, controllers), replacing the copper wire and radio. The corridors will benefit from the added functionality and reliability of the fiber optic communications. The project also includes the installation of flashing yellow left turn arrows at several of the intersections to allow for flexibility in operations throughout the day. Traffic monitoring cameras will be installed to assist the County in real-time traffic monitoring. The project will also include retiming of the 16 signals to relieve congestion resulting in less stops and delay for users. The Minnesota Valley Transit Authority (MVTA) has bus service routes within the project limits including 3 Park-N-Ride facilities located

along Kenrick Avenue south of 167th Street, at CSAH 23 & 155th Street, and at CSAH 31 & 157th Street that will benefit from the project by resulting in more timely service for the buses. The corridors will be integrated into the Countys planned 2015 Advanced Traffic Management System installation which will eliminate these zones and allow for the coordination of the corridors as a larger, connected system. The project will provide for enhanced traffic management, improved traffic flow, reduced traffic congestion and reduce harmful vehicle emissions along the project corridors.

Include location, road name/functional class, type of improvement, etc.

Project Length (Miles)

10.01

Connection to Local Planning:

Reference the name of the appropriate comprehensive plan, regional/statewide plan, capital improvement program, corridor study document [studies on trunk highway must be approved by MnDOT and the Metropolitan Council], or other official plan or program of the applicant agency [includes Safe Routes to School Plans] that the project is included in and/or a transportation problem/need that the project addresses. List the applicable documents and pages.

Connection to Local Planning

Shown in adopted Dakota County 2030 Transportation plan, majority of the corridors within the project limits are expected to be over capacity by 2030 (Figure 5, page 2-16). Goal 4 of County plan is Management to Increase Transportation System Efficiency, Improve Safety, and Maximize Existing Highway Capacity (Chapter 7, page 7-1). Safe travel on routes with minimal congestion is an integral part of Dakota Countys vision for its transportation system. One County identified strategy is: Traffic Signal Coordination Consider coordination of signal systems on County highways as appropriate to maximize system efficiency and the capacity of the County highway system (page 7-27). Goal 5 in the County plan is Replace Deficient Elements of System. County policy R.1 Highway Replacement states: Reconstruct highways or highway elements that have exceeded their useful life based on structural, functional, operations, or safety factors (page 8-2).

Project Funding

Are you applying for funds from another source(s) to implement

this project?

No

If yes, please identify the source(s)

Federal Amount \$1,015,000.00

Match Amount \$255,000.00

Minimum of 20% of project total

Project Total \$1,270,000.00

Match Percentage 20.08%

Minimum of 20%

Compute the match percentage by dividing the match amount by the project total

Source of Match Funds County / City

Preferred Program Year

Select one: 2018

MnDOT State Aid Project Information: Roadway Projects

County, City, or Lead Agency Dakota County

CSAH 46 - A Minor Arterial

Functional Class of Road

CSAH 31 - A Minor Arterial

Road System CSAH

TH, CSAH, MSAS, CO. RD., TWP. RD., CITY STREET

46 - 160th Street/162nd Street

Name of Road

31 - Pilot Knob Road

Example; 1st ST., MAIN AVE

Zip Code where Majority of Work is Being Performed 55124

(Approximate) Begin Construction Date 05/31/2018
(Approximate) End Construction Date 11/30/2018

LOCATION

From: CSAH 46 - From Kenrick Avenue; CSAH 31 - From 170th

(Intersection or Address) Street

Do not include legal description;

Include name of roadway if majority of facility

runs adjacent to a single corridor.

To: CSAH 31 (Pilot Knob Rd); CSAH 31 - To CSAH

(Intersection or Address) 38 (McAndrews Rd)

Type of Work

Fiber Optic Signal Interconnection, Traffic Signal Revision, Signal Retiming/Coord

Examples: grading, aggregate base, bituminous base, bituminous surface, sidewalk, signals, lighting, guardrail, bicycle path, ped ramps, bridge, Park & Ride, etc.)

CONSTRUCTION PROJECT ELEMENTS/COST

Old Bridge/Culvert? No

New Bridge/Culvert? No

Structure is Over/Under N/A

(Bridge or culvert name):

Specific Roadway Elements

ESTIMATES	Cost
Mobilization (approx. 5% of total cost)	\$31,000.00
Removals (approx. 5% of total cost)	\$15,000.00
Roadway (grading, borrow, etc.)	\$0.00
Roadway (aggregates and paving)	\$0.00
Subgrade Correction (muck)	\$0.00
Storm Sewer	\$0.00
Ponds	\$0.00
Concrete Items (curb & gutter, sidewalks, median barriers)	\$0.00
Traffic Control	\$40,000.00
Striping	\$0.00
Signing	\$0.00
Lighting	\$0.00
Turf - Erosion & Landscaping	\$0.00
Bridge	\$0.00
Retaining Walls	\$0.00
Noise Wall	\$0.00
Traffic Signals	\$1,034,000.00
Wetland Mitigation	\$0.00
Other Natural and Cultural Resource Protection	\$0.00
RR Crossing	\$0.00
Roadway Contingencies	\$150,000.00
Other Roadway Elements	\$0.00
Totals	\$1,270,000.00

CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES	Cost
Path/Trail Construction	\$0.00
Sidewalk Construction	\$0.00
On-Street Bicycle Facility Construction	\$0.00
Right-of-Way	\$0.00
Pedestrian Curb Ramps (ADA)	\$0.00
Crossing Aids (e.g., Audible Pedestrian Signals, HAWK)	\$0.00
Pedestrian-scale Lighting	\$0.00
Streetscaping	\$0.00
Wayfinding	\$0.00
Bicycle and Pedestrian Contingencies	\$0.00
Other Bicycle and Pedestrian Elements	\$0.00
Totals	\$0.00
CONSTRUCTION DROTECT ELEMENTSICOST	
CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES	Cost
ESTIMATES	
ESTIMATES	\$0.00
ESTIMATES Fixed Guideway Elements Stations, Stops, and Terminals	\$0.00 \$0.00
ESTIMATES Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls,	\$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.)	\$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles	\$0.00 \$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles Transit and TDM Contingencies	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles Transit and TDM Contingencies Other Transit and TDM Elements	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles Transit and TDM Contingencies Other Transit and TDM Elements Totals	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles Transit and TDM Contingencies Other Transit and TDM Elements Totals ansit Operating Costs	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles Transit and TDM Contingencies Other Transit and TDM Elements Totals ansit Operating Costs OPERATING COSTS	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0
Fixed Guideway Elements Stations, Stops, and Terminals Support Facilities Transit Systems (e.g. communications, signals, controls, fare collection, etc.) Vehicles Transit and TDM Contingencies Other Transit and TDM Elements Totals ansit Operating Costs	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

Totals

Total Cost \$1,270,000.00

Construction Cost Total \$1,270,000.00

Transit Operating Cost Total \$0.00

Requirements - All Projects

All Projects

1. The project must be consistent with the goals and policies in these adopted regional plans: Thrive MSP 2040 (2014), the 2030 Transportation Policy Plan (amended 2013), the 2030 Regional Parks Policy Plan (amended 2013), and the 2030 Water Resources Management Policy Plan (2005).

Check the box to indicate that the project meets this requirement. Yes

2. Applicants that are not cities or counties in the seven-county metro area with populations over 5,000 must contact the MnDOT Metro State Aid Office prior to submitting their application to determine if a public agency sponsor is required.

Check the box to indicate that the project meets this requirement. Yes

3.Applicants must not submit an application for the same project in more than one funding sub-category.

Check the box to indicate that the project meets this requirement. Yes

4. The requested funding amount must be more than or equal to the minimum award and less than or equal to the maximum award. The cost of preparing a project for funding authorization can be substantial. For that reason, minimum federal amounts apply. Other federal funds may be combined with the requested funds for projects exceeding the maximum award, but the source(s) must be identified in the application. Expansion, reconstruction/modernization, and bridges must be between \$1,000,000 and \$7,000,000. Roadway system management must be between \$250,000 and \$7,000,000.

Check the box to indicate that the project meets this requirement. Yes

5. The project must comply with the Americans with Disabilities Act.

Check the box to indicate that the project meets this requirement. Yes

6. The project must be accessible and open to the general public.

Check the box to indicate that the project meets this requirement. Yes

7. The owner/operator of the facility must operate and maintain the project for the useful life of the improvement.

Check the box to indicate that the project meets this requirement. Yes

8. The project must represent a permanent improvement with independent utility. The term independent utility means the project provides benefits described in the application by itself and does not depend on any construction elements of the project being funded from other sources outside the regional solicitation, excluding the required non-federal match. Projects that include traffic management or transit operating funds as part of a construction project are exempt from this policy.

Check the box to indicate that the project meets this requirement. Yes

9. The project must not be a temporary construction project. A temporary construction project is defined as work that must be replaced within five years and is ineligible for funding. The project must also not be staged construction where the project will be replaced as part of future stages. Staged construction is eligible for funding as long as future stages build on, rather than replace, previous work.

Check the box to indicate that the project meets this requirement. Yes

10. The project applicant must send written notification regarding the proposed projected to all affected communities and other levels and units of government prior to submitting the application.

Requirements - Roadways Including Multimodal Elements

Expansion and Reconstruction/Modernization Projects Only

1. The project must be designed to meet 10-ton load limit standards.

Check the box to indicate that the project meets this requirement.

2. Federal funds are available for roadway construction and reconstruction on new alignments or within existing right-of-way, including associated construction and excavation, bridges, or installation of traffic signals, signs, utilities, bikeway or walkway components and transit components.

The project must exclude costs for right-of-way, studies, preliminary engineering, design, or construction engineering. Noise barriers, drainage projects, fences, landscaping, etc., are not eligible for funding unless included as part of a larger project, which is otherwise eligible.

Check the box to indicate that the project meets this requirement.

Bridge Projects Only

3. The bridge project must be identified as a Principal Arterial (Non-Freeway facilities only) or A Minor Arterial as shown on the latest TAB approved roadway functional classification map.

Check the box to indicate that the project meets this requirement.

4.Bridges selected in previous Bridge Improvement and Replacement solicitations (1994 2011) are not eligible. A previously selected project is not eligible unless it has been withdrawn or sunset prior to the deadline for proposals in this solicitation.

Check the box to indicate that the project meets this requirement.

5.Projects requiring a grade-separated crossing of a Principal Arterial of freeway design must be limited to the federal share of those project costs identified as local (non-MnDOT) cost responsibility using MnDOTs Cost Participation for Cooperative Construction Projects and Maintenance Responsibilities manual. In the case of a federally funded trunk highway project, the policy guidelines should be read as if the funded trunk highway route is under local jurisdiction.

Check the box to indicate that the project meets this requirement.

6. The bridge must carry vehicular traffic. Bridges can carry traffic from multiple modes. However, bridges that are exclusively for bicycle or pedestrian traffic must apply under one of the Bicycle and Pedestrian Facilities sub-categories. Rail-only bridges are ineligible for funding.

Check the box to indicate that the project meets this requirement.

7. The length of the bridge must equal or exceed 20 feet.

Check the box to indicate that the project meets this requirement.

8. Project limits for bridge projects are limited from abutment to abutment.

Check the box to indicate that the project meets this requirement.

9. The project must exclude costs for studies, preliminary engineering, design, construction engineering, and right-of-way.

Check the box to indicate that the project meets this requirement.

Bridge Replacement Projects Only

10.The bridge must have a sufficienty rating less than 50. Additionally, it must also be classified as structurally deficient or functionally obsolete.

Check the box to indicate that the project meets this requirement.

Bridge Rehabilitiation Projects Only

11. The bridge must have a sufficienty rating less than 80. Additionally, it must also be classified as structurally deficient or functionally obsolete.

Check the box to indicate that the project meets this requirement.

Other Attachments

File Name	Description	File Size
2231 Dakota Co HSIP.pdf	Crash B/C	31 KB
Dakota Co 2030 AADT - Final_County_Analysis.pdf	Dakota County 2030 AADT map	1.7 MB
Dakota Co 46 31 Additional Crash Information.pdf	Additional Crash Information	149 KB
Dakota Co 46 31 Heavy Com Veh Count.pdf	Heavy Commercial Veh Count	33 KB
Dakota Co 46 31 Individual Roadway Area Def Maps.pdf	Individual Roadway Area Def Maps	105 KB
Dakota Co 46 31 Proj Location Map.pdf	Project Location Map	226 KB
Dakota Co 46 31 Resolution Letters.pdf	Dakota Co 46 31 Resolution Letters	264 KB
Dakota Co CSAH 46 31 Crash Data.xls	Dakota Co 46 31 Crash Data	312 KB
MnDOT series 50 map 3C.pdf	MnDOT Series 50 Map 3C	2.0 MB
RdwayAreaDef.pdf	Roadway Area Definition	1.2 MB
RegionalEcon.pdf	Regional Economy	1.1 MB
SocioEcon.pdf	Socio Economic	1.1 MB
TransitCon.pdf	Transit Connections	1.1 MB

Measure A: Functional Classification

Address how the project fulfills its role in the regional economy as identified by its current functional classification. If the project serves a system of routes, respond using the route with the highest functional classification. This system must include a Non-Freeway Principal Arterial or an "A" Minor Arterial.

Reference the Roadway Area Definition map generated at the beginning of the application process. Report the total area and project length, as depicted on the Roadway Project Summary map, to calculate the average distance between the project route (highest functional classification) and the closest parallel A Minor Arterials or Principal Arterials on both sides of the project.

Upload the "Roadway Area Definition" map used for this measure.

Area 28.214

Project Length 5.211

Average Distance 5.4143

Upload Map

Dakota Co 46 31 Roadway Area Def Map1A.pdf

Measure B: Current Heavy Commercial Traffic

Current daily heavy commercial traffic volume

1605.0

Measure C: Project Location Relative to Jobs, Manufacturing and Education

Select all that apply:

Direct connection to or within a mile of a Job Concentration

Yes

Direct connection to or within a mile of a Manufacturing/Distribution Location

Direct connection to or within a mile of an Educational Institution

Project provides a direct connection to or within a mile of an existing local activity center identified in an adopted county or city plan

County or City Plan Reference

Response (Limit 700 characters; approximately 100 words)

CSAHs 46 is located within one mile of Job Concentration. CSAH 46 connects to CSAH 23 (Cedar AVe) which connects to commercial area in

Apple Valley (Southport Center).

Upload Map

Dakota County 46 31 Regional Econ Map1C.pdf

Measure A: Current Daily Person Throughput

Location CSAH 31 between CSAH 46 (160th)&CSAH 42 (150th St)

Current AADT Volume 23400.0

Existing Transit Routes on the Project 420, 476, 477, 478, 479

Response - Daily Person Throughput

Average Annual Daily Transit Ridership 134.0

Current Daily Person Throughput 30554.0

Measure B: 2030 Forecast ADT

Use Metropolitan Council model to determine forecast (2030) ADT

volume

No

METC Staff - Forecast (2030) ADT volume 0

OR

Approved county or city travel demand model to determine

forecast (2030) ADT volume

Yes

Measure A: Project Location and Impact to Disadvantaged Populations

Select one:

Project located in Racially Concentrated Area of Poverty

Project located in Concentrated Area of Poverty

Projects census tracts are above the regional average for population in poverty or population of color

Project located in a census tract that is below the regional average for population in poverty or populations of color or includes children, people with disabilities, or the elderly.

Yes

Response (Limit 1,400 characters; approximately 200 words)

The primary benefit to the community will be realized through the project by enhancing mobility along major roadway cooridors which will reduce delays, queuing, and congestion while improving travel times in this area.

Upload Map

Dakota Co 46 31 Soc Econ Map3A.pdf

Measure B: Affordable Housing

City/Township Segment Length (Miles)

Apple Valley 5.64

Lakeville 4.37

10

Total Project Length

Total Project Length 10.01

Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

City/Township	Segment Length (Miles)	Total Length (Miles)	Score	Segment Length/Total Length	Multiplied by Segment percent
Apple Valley	5.64	10.01	80.0	0.563	45.075
Lakeville	4.37	10.01	61.0	0.437	26.63
		20	141	1	72

Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

Total Project Length (Miles) 10.01

Total Housing Score 71.705

Measure A: Equipment Improvements and Installation Year

Equipment to be Improved '93cabinet/controller; '96 signal interconnect

Date of Equipment Installation 05/31/1993

Measure A: Cost Effectiveness of Vehicle Delay Reduction

Total Project Cost from Cost Sheet \$1,270,000.00

Total Peak Hour Vehicle Delay Without The Project 236608.0

Total Peak Hour Vehicle Delay With The Project 125698.0

Total Peak Hour Vehicle Delay Reduced by Project 110910.0

Cost Effectiveness \$11.45

Synchro or HCM Reports Dakota Co 46 31 5A.pdf

Measure B: Cost Effectiveness of Emissions Reduction

Total Project Cost from Cost Sheet \$1,270,000.00

Total Peak Hour Kilograms Reduced by Project 10462.51

Cost Effectiveness \$121.39

Synchro or HCM Reports Dakota Co 46 31 5B.pdf

Measure A: Benefit/Cost of Crash Reduction

Project Benefit/Cost Ratio 2.36

Worksheet Attachment 46 31 HSIP BC worksheet.xls

Measure A: Transit Connections

Existing Routes Directly Connected to the Project 420, 476, 477, 478, 479

Planned Transitways directly connected to the project (alignment

and mode determined and identified in the 2030 TPP)

N/A

Upload Map Dakota Co 46 31 Transit Connect Map7A.pdf

Response

Met Council Staff Data Entry Only

Route Ridership

548760.0

Transitway Ridership

0

Measure B: Bicycle and Pedestrian Connections

Response (Limit 1,400 characters; approximately 200 words)

Both Dakota County State Aid Highway (CSAH) 46 (160th St) and CSAH 31 (Pilot Knob Rd) currently have shared use trails on one or both sides of the roadway that provide pedestrian access to business/commercial (Southport Center), park-n-ride facilities, parks (Lebanon Hills Regional Park, Crystal Lake) and residential areas.

Measure C: Multimodal Facilities

Response (Limit 1,400 characters; approximately 200 words)

The primary benefit to the community will be realized through reduced delays and increased safety at the intersection for motorists, transit, and pedestrian users. The Minnesota Valley Transit Authority (MVTA) has bus service routes within the project limits including 3 Park-N-Ride facilities located along Kenrick Avenue south of 167th Street, at CSAH 23 & 155th Street, and at CSAH 31 & 157th Street that will benefit from the signal coordination and retiming. The retiming will relieve congestion along the corridor, therefore decreasing delay experienced by the buses. MVTA will benefit from the retiming of the signals and integration into the Countys planned traffic monitoring system by providing more responsive signal timing adjustments, less delay, less stops and more timely service for the buses, and seamless travel to users.

If the applicant is completing a transit or TDM application, only Park-and-Ride and other construction projects require completion of the Risk Assessment below. Check the box below if the project does not require the Risk Assessment fields, and do not complete the remainder of the form. These projects will receive full points for the Risk Assessment.

Check Here if Your Transit Project Does Not Require Construction

Measure A: Risk Assessment 1)Project Scope (5 Percent of Points) Meetings or contacts with stakeholders have occurred Yes 100% Stakeholders have been identified 40% Stakeholders have not been identified or contacted 2)Layout or Preliminary Plan (5 Percent of Points) **Layout or Preliminary Plan completed** 100% **Layout or Preliminary Plan started** Layout or Preliminary Plan has not been started Yes Anticipated date or date of completion 3)Environmental Documentation (10 Percent of Points) **EIS** EΑ PM Yes **Document Status:** Document approved (include copy of signed cover sheet) 100% **Document submitted to State Aid for review** 75% Document in progress; environmental impacts identified 50% **Document not started** Yes 0% Anticipated date or date of completion/approval

4) Review of Section 106 Historic Resources (15 Percent of Points)

No known potential for archaeological resources, no historic resources known to be eligible for/listed on the National Register of Historic Places located in the project area, and project is not located on an identified historic bridge

100%

Historic/archeological review under way; determination of no historic properties affected or no adverse effect anticipated

80%

Historic/archaeological review under way; determination of adverse effect anticipated

40%

Unknown impacts to historic/archaeological resources

Yes

0%

Anticipated date or date of completion of historic/archeological review:

Project is located on an identified historic bridge

5) Review of Section 4f/6f Resources (15 Percent of Points)

(4f is publicly owned parks, recreation areas, historic sites, wildlife or waterfowl refuges; 6f is outdoor recreation lands where Land and Water Conservation Funds were used for planning, acquisition, or development of the property)

No Section 4f/6f resources located in the project area

100%

Project is an independent bikeway/walkway project covered by the bikeway/walkway Negative Declaration statement; letter of support received

100%

Section 4f resources present within the project area, but no known adverse effects

80%

Adverse effects (land conversion) to Section 4f/6f resources likely

30%

Unknown impacts to Section 4f/6f resources in the project area

Yes

0%

6) Right-of-Way (15 Percent of Points)

Right-of-way or easements not required

100%

Right-of-way or easements has/have been acquired

100%

Right-of-way or easements required, offers made

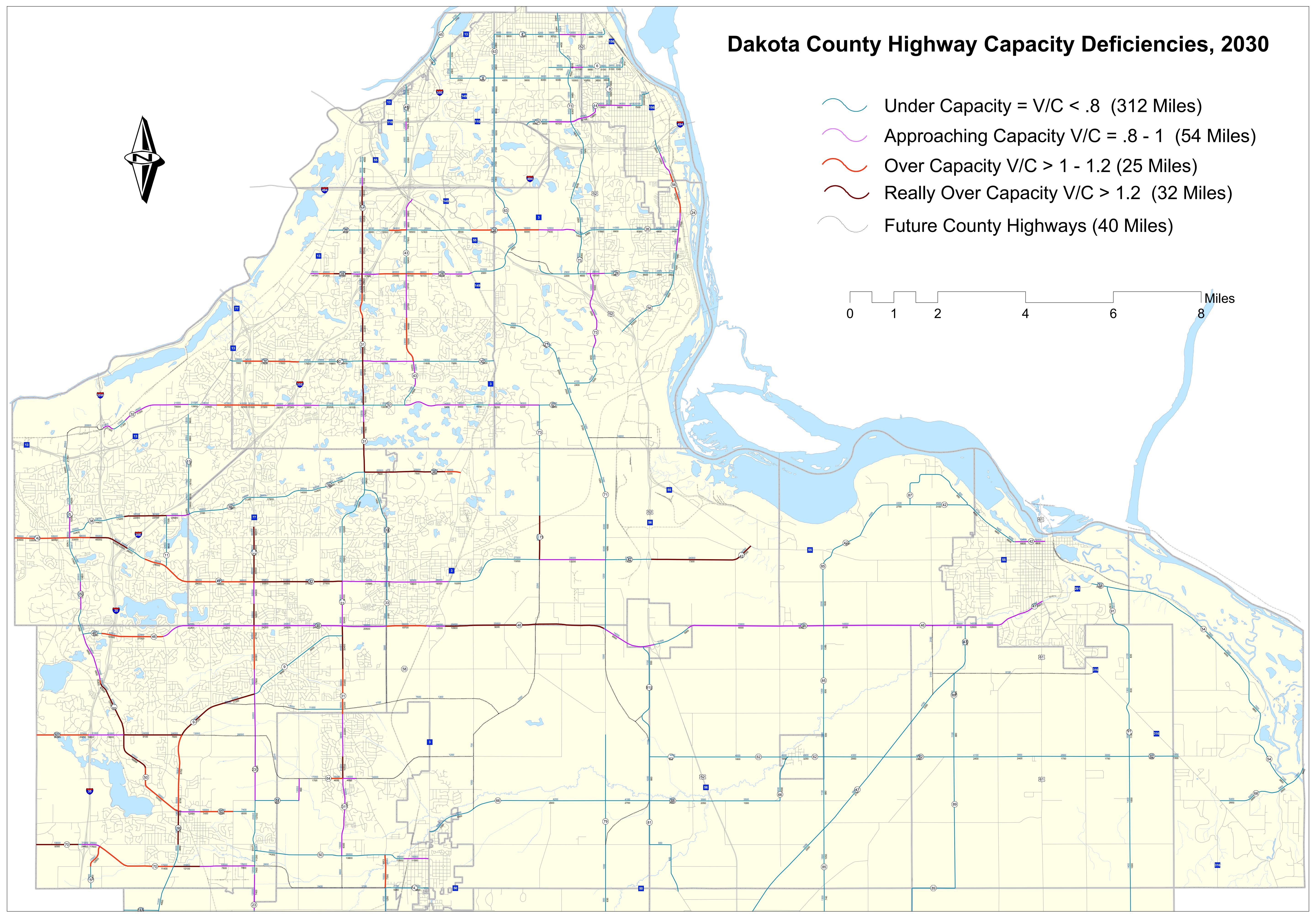
75%

Right-of-way or easements required, appraisals made

50%

Right-of-way or easements required, parcels identified 25%	
Right-of-way or easements required, parcels not identified 0%	
Right-of-way or easements identification has not been completed 0%	Yes
Anticipated date or date of acquisition	
7)Railroad Involvement (25 Percent of Points)	
No railroad involvement on project 100%	Yes
Railroad Right-of-Way Agreement is executed (include signature page)	100%
Railroad Right-of-Way Agreement required; Agreement has been initiated	
60%	
Railroad Right-of-Way Agreement required; negotiations have begun	
40%	
Railroad Right-of-Way Agreement required; negotiations not begun	
0%	
Anticipated date or date of executed Agreement	
8)Construction Documents/Plan (10 Percent of Points)	
Construction plans completed/approved (include signed title sheet)	
100%	
Construction plans submitted to State Aid for review	
75%	
Construction plans in progress; at least 30% completion	
50%	
Construction plans have not been started	Yes
0%	
Anticipated date or date of completion	
9)Letting	
Anticipated Letting Date	05/30/2018

B/C worksheet						Location			Begin Ref.	_	Ending Ref. Pt.	State, County, City or Township	Study Period Begins	Study Period Ends
			Descript		At variousinters							Dakota Co	12/31/2013	
Accid	lent D	iagrar	Proposed n 1 Rear End		CMF ID 414: A		` .	mary head) for 5 Right Angle			8, 9 Head On/			
		Code	s		Same Direction					A	Sideswipe - Opposite Direction			
			>->		1				=	*	Pedestrian	Other	Total	
	Fatal	F		0	0	Ì	0	0		0	0		0	
				0			0	0		0	0		0	
Study	Iniury	B		0			1	3		1	0		1	6
Period: Number of	Personal Iniury (PI)	C		2			0	8		0	3		2	16
Crashes	Property F				1		0				3			10
	Prop	II D)	12	2		0	1		0	1		2	18
		F		-28%	-28%		-28%	-28%		-28%	-28%	-28%	-28%	
		A		-28%	-28%		-28%	-28%		-28%	-28%	-28%	-28%	
% Change in Crashes	P	B		-28%	-28%		-28%	-28%		-28%	-28%	-28%	-28%	
*Recommend using MnDOT's		C		-28%	-28%		-28%	-28%		-28%	-28%	-28%	-28%	
% Change in Crashes		PI	O	-28%	-28%		-28%	-28%		-28%	-28%	-28%	-28%	
		F												
		A												
Change in Crashes	P	I B					0.00	-0.84		-0.28			-0.28	-1.40
= No. of crashes X		C		-0.56	-0.28			-2.24			-0.84		-0.56	-4.48
% change in crashes		PI		-3.36	-0.56			-0.28			-0.28		-0.56	-5.04
Year (Safety	Impr	oveme	ent Construc	ction)	2018									
Project Cost	t (exc	lude F	Right of Wa	y)	\$ 1,540,000	Type of Crash	Study Period: Change in Crashes	Annual Change in Crashes	Cost Cra		Annual Benefit		B/C=	2.36
Right of Wa	y Co	sts (o	ptional)		\$ -	F			\$ 10,30	00,000		Using present	worth values	
Traffic Gro	wth]	Facto	r		3%	A			\$ 55	50,000		B =		539,761
Capital Rec	over	y				В	-1.40	-0.47	\$ 16	50,000	\$ 74,667	C=		540,000
1. Discour	1. Discount Rate 4.5%						-4.48	-1.49	\$ 8	31,000	\$ 120,960	See "Calculati amortization.	ons" sheet fo	or
2. Project	2. Project Service Life (n) 20					PD	-5.04	-1.68	\$	7,400	\$ 12,432			
						Total					\$ 208,059	Office of Tra Operations		nd ber 2007



Crash ID: 1414 Add additional primary head CR=0.28

Yes - An extra head is needed No - An extra head is not needed

CSAH 46	Mainline	Side Street
Ipava	Yes-EB only	No
LacLavon	Yes	Yes
Gardenview/Highview	No	Yes
CSAH 23	No	No
Galaxie	Yes	No
Foliage	Yes	No
Flagstaff	Yes	Yes
CSAH 31	No	No

CSAH 31	Mainline	Side Street
31 South Project		
170th Street	Yes	No
CSAH 9	No	No
CSAH 46	No	No
157th Street	No	No
CSAH 42	No	No
140th Street	No	No
CSAH 33	No	No
CSAH 38	No	Yes- WB only

LOGPOINT LISTINGS

NOV 18,2014

TRUNK HIGHWAY LOGPOINT LISTING

	PTRL TWN STAT CITY NUM	\$500	2150 000	2150 000		2150 000	2150 000	2150 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000		0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000	0102 000
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ENDING AT 012+	ACCUM C (MILES) D	AUC.	7.019	7,133	7.410	7.660	7.916	8.170	8.397	8.410	8.472	8.656	8.668	8.926	9.412	9.422	9.537	9.671	9.994	10.158	10.260	10.297	10.407	10.656	10.822	10.942	11.002	11.181	11,293	11.384	11.717	11.878	12.120
CSAH ROUTE SYSTEM - ROUTE 19000031 * BEGINNING AT 007+00.000 * END	REF-POINT FEATURES		019	133	410 170TH	660 167TH	916 165TH ST W	170 DODD BLVD CSAH-9 LT	160TH ST W CSAH-46 X-ING, APPLE VALLEY	410 160TH ST W	472 BR#19J48 F	656 157TH	668	0000	412 150TH ST W	422	537 ENERGY	671 UPPER	144TH ST W M-518 X-ING	142ND	.260	SCHOOL	407 140TH ST MSAS-104 X-ING	656 138TH ST W M-257 LT;	822	942 134TH	005	181	. 293	.384	717	.878 EDGEWATER PATH M-639	012+00.120 MCANDREWS RD CSAH-38 X-ING
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	ROUTE	1	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH

NOV 18,2014

TRUNK HIGHWAY LOGPOINT LISTING

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PTRL TWN STAT CITY NUM			0102 000	0102 000		0102 000					2150 000
M CNTRL I		119	19	19	19	6 F	19	19	19	19	61
ACCUM C (MILES) D	0.540 0.7560 0.7660 0.886 0.886 1.038 1.377 1.967 1.967 2.046 2.170 2.340 2.340 2.340 2.832 2.832 3.017 3.695 3.695	4.090	4.199	4.340	4.790	5.090	5.565	5.635	5.740	5.870	6.130
FEATURES	0 ENIT RAMP FROM I-35 SB LT 6 ENIT LOOP TO I-35 SB LT 6 ENIT LOOP FROM I-35 NB LT 6 EXIT RAMP TO I-35 NB LT 6 EXIT RAMP TO I-35 NB LT 6 EXIT RAMP TO I-35 NB LT 6 KENRICK AVE M-28 X-ING 8 PARK ENTRANCE LT 7 CITY PARK LT JAVA LA RT M-559 5 JAMAICA AVE W LT M-44 JAGUAR AVE W RT MSAS-123 2 163RD ST W RT M-851 7 CHURCH ENTRANCE LT 9 CHURCH ENTRANCE LT 6 IPAVA AVE MSAS-101 SBL RT 6 IPAVA AVE MSAS-101 NBL RT 6 IPAVA AVE MSAS-101 NBL RT 6 IPAVA AVE MSAS-101 NBL RT 7 HAWTHORNE DR SBL MSAS-107 RT 7 HAWTHORNE DR SBL MSAS-107 RT 7 HAWTHORNE PATH RT M-869 9 HARWELL AVE M-395 LT 7 HAWTHORNE PATH RT M-869 9 HARWELL AVE M-395 LT 7 HAWTHORNE PATH RT M-869 9 HARWELL AVE M-395 LT 7 HAWTHORNE PATH RT M-869 9 HARWELL AVE M-395 LT 7 HAWTHORNE PATH RT M-479 9 GRANADA AVE LT M-471 SHOPPING CENTER RT 9 CRANADA AVE LT M-471 SHOPPING CENTER RT	-	9 GLACIER AVE RT M-661 0 GARRETT DATH IT M-647 CARDENE AND TO 11 110		FUAGSTAFF AND MSAS-130 RT		FAIRGREEN AVE MSAS-132 RT			KINOB	PILOT KNOB RD CSAH-31 X-ING
REF-POINT (MILES)	000+00.54(000+00.76(000+00.76(000+00.76(000+00.37(001+00.96(004+00.106	004+00.199	004+00.590	005+00.090	005+00.340	005+00.565	005+00.740	005+00.870	006+00.120	006+00.130
阿展		46	4. 4. 6. 6.	46	4.6	46	40	46	46	46	94
ROUTE	CSAH CSAH CSAH CSAH CSAH CSAH CSAH CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH	CSAH



CMF / CRF Details

CMF ID: 1414

Add signal (additional primary head)

Description:

Prior Condition: Intersection has one primary signal head per approach

Category: Intersection traffic control

Study: Safety Benefits of Additional Primary Signal Heads, Felipe et al., 1998

Star Quality Rating:

View score details

Crash Modification Factor (CMF)

Value:

0.72

Adjusted Standard Error:

Unadjusted Standard

Error:

Crash Reduction Factor (CRF)

Value:

28 (This value indicates a decrease in crashes)

Adjusted Standard Error: Unadjusted Standard Error:

Applicability

Crash Type: All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

Urban

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type: Roadway/roadway (not interchange related)

Intersection Geometry: 4-leg

> **Traffic Control:** Signalized

Major Road Traffic

Volume:

Minor Road Traffic

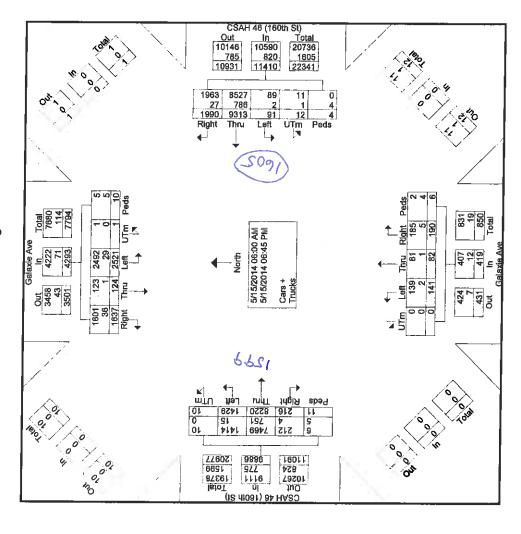
Volume:

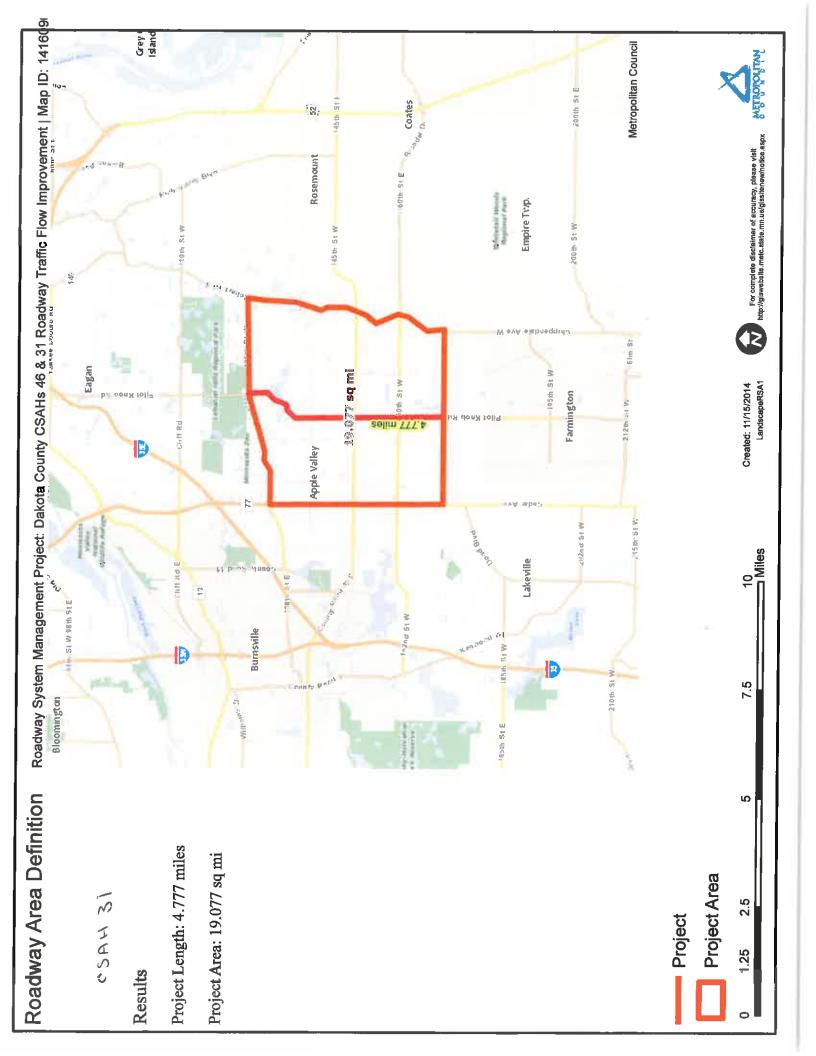
Traffic Data Inc

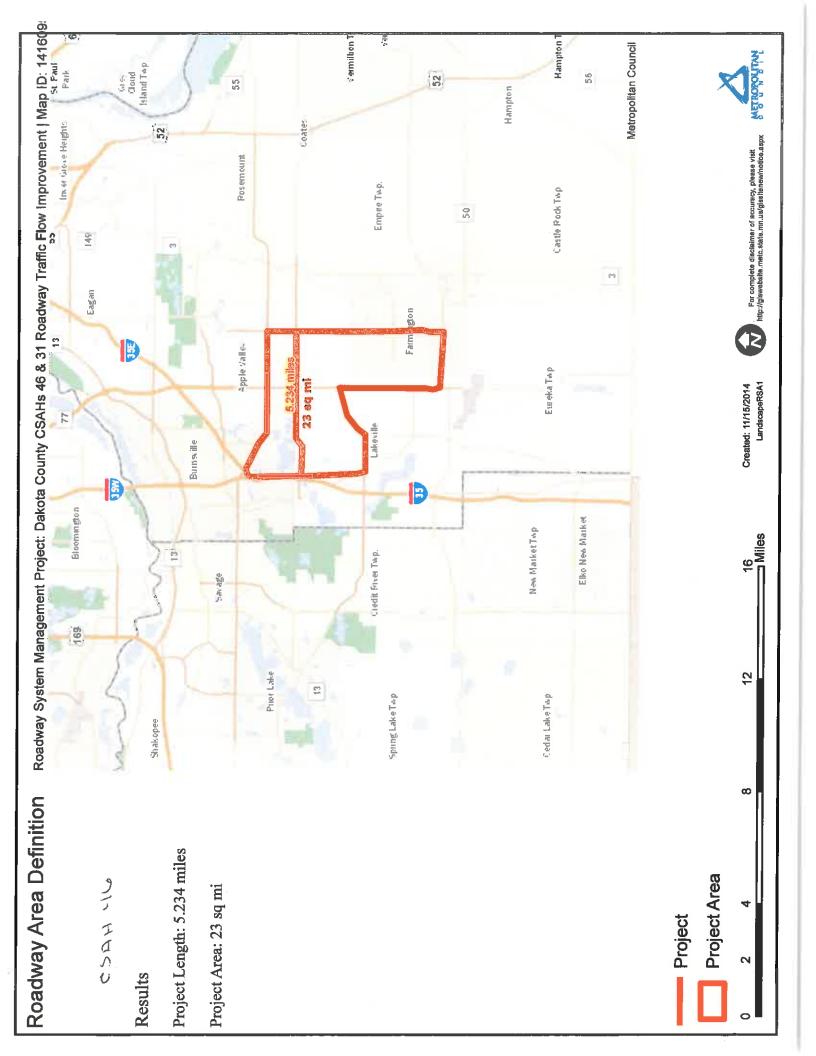
PO Box 16296 St. Louis Park, MN 55416

File Name:48 - CSAH 46 (160th St) & Galaxie Ave, 5-15-14, 6am-7pm Site Code:48 Start Date:5/15/2014 Page No :3

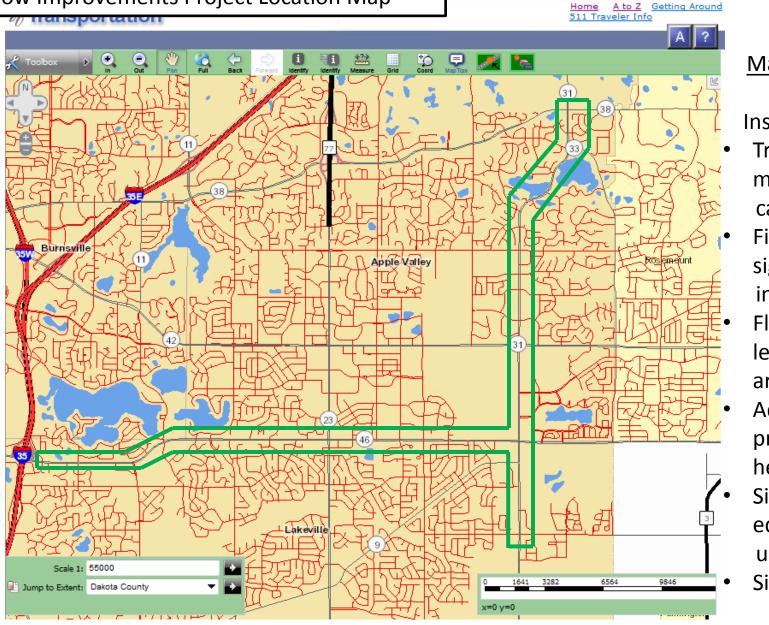
CSAH 46 (160th St) & Galaxie Ave Apple Valley/Lakeville, MN







Dakota County CSAHs 46 and Roadway Traffic Flow Improvements Project Location Map



Major Project Items Installation of:

- Traffic monitoring cameras
- Fiber optic signal interconnect
- Flashing yellow left turn arrows
- Additional primary signal heads
- Signal equipment upgrades
- Signal retiming

Approval Of Grant Application Submittals For Transportation Advisory Board 2014 Federal Funding Solicitation Process

WHEREAS, the Transportation Advisory Board (TAB) is requesting project submittals for federal funding under the Moving Ahead for Progress in the 21st Century Act (MAP-21); and

WHEREAS, these federal programs fund up to 80 percent of project construction costs; and

WHEREAS, federal funding of projects reduces the burden local taxpayers for regional improvements; and

WHEREAS, non-federal funds must be at least 20 percent of the project costs; and

WHEREAS, project submittals are due on December 1, 2014; and

WHEREAS, all projects proposed are consistent with the adopted Dakota County Comprehensive Plan.

NOW, THEREFORE, BE IT RESOLVED, That the Dakota County Board of Commissioners hereby approves the following County lead projects for submittal to the TAB for federal funding:

- County State Aid Highway (CSAH) 9 (Dodd Boulevard) from Hayes Avenue to CSAH 23 (Cedar Avenue) in Lakeville
- 2. CSAH 26 (Lone Oak Road) at its intersection with CSAH 43 (Lexington Avenue) in Eagan
- 3. CSAH 26 (70th Street) at its intersection with Trunk Highway (TH) 3 in Inver Grove Heights
- 4. CSAH 28/63 (Yankee Doodle Road/Argenta Trail) from south of TH 55 to south of CSAH 26 (70th Street)
- 5. CSAH 31 (Pilot Knob Road) from I-35E to north of Central Parkway in Eagan
- 6. CSAH 42 (145th Street East) at its interchange with TH 52 in Rosemount
- 7. CSAH 23 (Foliage Avenue) from CSAH 86 (280th Street) to CR 96 (320th Street) in Greenvale Township
- 8. CSAH 86 (280th Street) from CSAH 23 (Galaxie Avenue) to TH 3 in Eureka, Greenvale, Castle Rock, and Waterford Townships
- CSAH 86 (280th Street) from TH 3 to CSAH 47(Northfield Blvd) in Castle Rock, Waterford, and Sciota Townships
- 10. CSAH 31 and CSAH 46 Advanced Traffic Management System for 16 Signals
- 11. CSAH 26, CSAH 28, CSAH 31, and CSAH 43 Advanced Traffic Management System for 25 Signals
- 12. Mississippi River Regional Trail Rosemount East
- 13. Minnesota River Greenway Eagan South
- 14. North Creek Greenway CSAH 42 Underpass east of Flagstaff in Apple Valley
- 15. CSAH 14 (Southview Boulevard) from 14th Avenue to 3rd Avenue in South St. Paul; and

BE IT FURTHER RESOLVED, That, subject to federal funding award, the Dakota County Board of Commissioners would be asked to consider authorization to execute the grant agreement at a future meeting; and

BE IT FURTHER RESOLVED, That the Dakota County Board of Commissioners hereby supports the following submittals by others:

- 16. Apple Valley Transit Station Parking Expansion Lead Agency: Minnesota Valley Transit Authority
- 17. CSAH 73 (Oakdale Ave) Trail from CSAH 14 to CSAH 8 Lead Agency: West St. Paul
- 18. River to River Greenway Robert Street Pedestrian Bridge Lead Agency: West St. Paul
- 19. North Creek Greenway Farmington Gap Lead Agency: Farmington
- 20. Lake Marion Greenway Sunset Park to Murphy Hanrehan Regional Park Lead Agency: Burnsville
- 21. Lake Marion Greenway Ritter Farm Park Connection Lead Agency: Lakeville
- 22. Rosemount Greenway Downtown Rosemount to Lebanon Hills Lead Agency: Rosemount
- 23. Vermillion Highlands Greenway CSAH 42 Underpass at Akron- Lead Agency : Rosemount; and

BE IT FURTHER RESOLVED, That, subject to federal funding award of the city lead projects, the Dakota County Board of Commissioners will provide the local match for regional greenway projects, and for non-greenway projects will provide Dakota County's share of the matching funds consistent with Dakota County transportation cost share policies.

County Manager's Comments:	Reviewe	Reviewed by (if required):							
Recommend Action	⊠ Co	ounty Attorney's Office							
□ Do Not Recommend Action	⊠ Fir	nancial Services							
☐ Reviewed-—No Recommendation	☑ Ris	sk Management							
☐ ReviewedInformation Only	□ En	ployee Relations							
☐ Submitted at Commissioner Request	☐ Inf	ormation Technology							
	□ Fa	cilities Management							
Brandt Richard									
County Manager									



Physical Development Division

Dakota County Western Service Center 14955 Galaxie Avenue Apple Valley, MN 55124-8579

> 952.891.7000 Fax 952.891.7031 www.dakotacounty.us

Environmental Resources

Land Conservation

Groundwater Protection

Surface Water

Waste Regulation

Environmental Initiatives

Office of Planning

Operations Management Facilities Management Fleet Management Parks

Transportation
Highways
Surveyor's Office
Transit Office

November 19th, 2014

Zachary Johnson City Engineer City of Lakeville 20195 Holyoke Ave. Lakeville, MN 55044

Dear Mr. Johnson:

The Dakota County Transportation Department is submitting a Roadway System Management funding application for a transportation project as part of the Metropolitan Council's 2014 Federal Funding Solicitation. The project consists of the installation of fiber optic cable for signal interconnection, traffic monitoring cameras, flashing yellow left turn arrows at intersections, and signal timing optimization of signals along the County State Aid Highways (CSAH) 31 (Pilot Knob Road) and 46 (160th/162nd Street) corridors in the cities of Apple Valley and Lakeville. This will provide the County ability to manage traffic signals on county / city roadways as an entire system versus as limited and unconnected zones. The project will provide for improved traffic flow, and reduced traffic congestion and harmful emissions.

As part of the application, the County is requesting a letter of support from the City of Lakeville to include in our project funding application. The application deadline is December 1, 2014. To assist in this request, I am enclosing a draft letter that can be used as a framework for you to modify as you see appropriate. The letter can be returned directly to me.

The City of Lakeville's support of the project for Dakota County to improve traffic safety and mobility along CSAHs 31 and 46, and your assistance in the funding application is greatly appreciated.

Duzanne Hanrahan

Sincerely,

Suzanne Hanrahan, P.E. Assistant Traffic Engineer



Physical Development Division

Dakota County Western Service Center 14955 Galaxie Avenue Apple Valley, MN 55124-8579

> 952.891.7000 Fax 952.891.7031 www.dakotacounty.us

Environmental Resources

Land Conservation

Groundwater Protection

Surface Water

Waste Regulation

Environmental Initiatives

Office of Planning

Operations Management
Facilities Management
Fleet Management
Parks

Transportation
Highways
Surveyor's Office
Transit Office

November 19th, 2014

Colin Manson, PE City Engineer City of Apple Valley 7100 147th St. W. Apple Valley, MN 55124

Dear Mr. Manson:

The Dakota County Transportation Department is submitting a Roadway System Management funding application for a transportation project as part of the Metropolitan Council's 2014 Federal Funding Solicitation. The project consists of the installation of fiber optic cable for signal interconnection, traffic monitoring cameras, flashing yellow left turn arrows at intersections, and signal timing optimization of signals along the County State Aid Highways (CSAH) 31 (Pilot Knob Road) and 46 (160th/162nd Street) corridors in the cities of Apple Valley and Lakeville. This will provide the County ability to manage traffic signals on county / city roadways as an entire system versus as limited and unconnected zones. The project will provide for improved traffic flow, and reduced traffic congestion and harmful emissions.

As part of the application, the County is requesting a letter of support from the City of Apple Valley to include in our project funding application. The application deadline is December 1, 2014. To assist in this request, I am enclosing a draft letter that can be used as a framework for you to modify as you see appropriate. The letter can be returned directly to me.

The City of Apple Valley's support of the project for Dakota County to improve traffic safety and mobility along CSAHs 31 and 46, and your assistance in the funding application is greatly appreciated.

Sincerely,

Suzanne Hanrahan, P.E. Assistant Traffic Engineer

Duzanne Henrahan

From: Hanrahan, Suzanne

Sent: Wednesday, November 05, 2014 8:33 PM. **To:** Zachary Johnson (<u>zjohnson@ci.lakeville.mn.us</u>)

Subject: Metropolitan Council Regional Solicitation Grant Application

Zach,

The Metropolitan Council is currently soliciting Regional Grant Applications. Dakota County Transportation is working to submit an application for the Roadway System Management category (formerly Congestion Mitigation/Air Quality – CMAQ). The application would be for a project to:

- Install 5 miles of fiber optic cable for signal interconnect along County Highway 46 (160th/162nd
 St) between Kenrick Avenue and County Highway 31 (Pilot Knob Road)
- Install approximately 3 miles of fiber optic cable for signal interconnect along County Highway
 31 between 170th Street in Lakeville to County Highway
 38 (McAndrews Rd) in Apple Valley
- Installation of traffic monitoring cameras
- Signal conversions at several intersections to include flashing yellow left turn arrows
- Signal equipment upgrades for the newer technology
- Signal corridor retiming

The fiber optic installation would allow for these signals to be incorporated into the new Advanced Traffic Management System Dakota County is acquiring next year for signal operation/management and traffic monitoring.

Currently there is not equipment in the ground throughout the majority of these two corridors for the signals to be interconnected and for the signal timing to be coordinated. The Transportation Department has received numerous phone calls over the years from citizens with concerns regarding the ability to travel along these major roadway corridors with minimal delay. County Commissioners have also received similar concerns and have shared these with the Transportation Department for having these signals coordinated to keep traffic moving efficiently as possible.

The federal funding would be for project construction in 2017 or 2018. The federal funding would contribute 80% of the construction costs. We are in the process of developing an overall project cost and each involved agency's cost share responsibility including design and construction costs. I will get that information to you early next week and will then be requesting City of Lakeville's support for this project. A support letter from local agencies that will have an involvement in the project is also to be include with the grant application.

If you have any initial thoughts or questions, please let me know. Otherwise, I will be in touch with you again early next week.

Sincerely, Suzanne

Suzanne Hanrahan, PE | Assistant Traffic Engineer

Dakota County Transportation Department 14955 Galaxie Avenue | Apple Valley, MN 55124 Ph: 952-891-7177 | Fax: 952-891-7127 Suzanne.Hanrahan@co.dakota.mn.us

Dakota County Transportation - "We Get You There"

From: Hanrahan, Suzanne

Sent: Wednesday, November 19, 2014 9:53 PM **To:** Zachary Johnson (zjohnson@ci.lakeville.mn.us)

Subject: RE: Metropolitan Council Regional Solicitation Grant Application

Hi Zach,

It took a little longer to get the cost estimate completed than anticipated. Below is the cost breakdown for the project as proposed below:

	Total Project	Federal Contribution	County Contribution	Apple Valley Contribution	Lakeville Contribution	Locations of FYA
	Cost					Conversions
Fiber Optic Interconnect Installation / Flashing Yellow Arrow Conversions / Traffic Monitoring Cameras	\$1,270,000	\$1,015,000	\$174,000	\$40,000	\$41,000	On 160 th /162 nd St: Ipava, LacLavon, Garden View, Galaxie, Foliage, Flagstaff On Pilot Knob: 170th St, Dodd, 142nd St, 140th St, Diamond Path, McAndrews Rd
Engineering Costs (8%) Not covered by federal funds	\$91,000	\$0	\$63,000	\$14,000	\$14,000	
Total	\$1,361,000	\$1,015,000	\$237,000	\$54,000	\$55,000	

Attached is the formal request letter from the County for Lakeville's support in the project. If Lakeville can support the project, the application is due December 1st so I would need a response support letter before then.

Please let me know if you have any questions/comments.

Thanks, Suzanne From: Hanrahan, Suzanne

Sent: Wednesday, November 05, 2014 8:37 PM

To: Manson, Colin

Subject: Metropolitan Council Regional Solicitation Grant Application

Colin,

The Metropolitan Council is currently soliciting Regional Grant Applications. Dakota County Transportation is working to submit an application for the Roadway System Management category (formerly Congestion Mitigation/Air Quality – CMAQ). The application would be for a project to:

- Install 5 miles of fiber optic cable for signal interconnect along County Highway 46 (160th/162nd
 St) between Kenrick Avenue and County Highway 31 (Pilot Knob Road)
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 31 between 170th Street in Lakeville to County Highway 38 (McAndrews Rd) in Apple Valley
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Currently there is not equipment in the ground throughout the majority of these two corridors for the signals to be interconnected and for the signal timing to be coordinated. The Transportation Department has received numerous phone calls over the years from citizens with concerns regarding the ability to travel along these major roadway corridors with minimal delay. County Commissioners have also received similar concerns and have shared these with the Transportation Department for having these signals coordinated to keep traffic moving efficiently as possible.

The federal funding would be for project construction in 2017 or 2018. The federal funding would contribute 80% of the construction costs. We are in the process of developing an overall project cost and each involved agency's cost share responsibility including design and construction costs. I will get that information to you early next week and will then be requesting City of Apple Valley's support for this project. A support letter from local agencies that will have an involvement in the project is also to be include with the grant application.

If you have any initial comments or questions, please let me know. Otherwise, | will be in touch with you again early next week.

Sincerely, Suzanne

Suzanne Hanrahan, PE | Assistant Traffic Engineer

Dakota County Transportation Department 14955 Galaxie Avenue | Apple Valley, MN 55124 Ph: 952-891-7177 | Fax: 952-891-7127 Suzanne.Hanrahan@co.dakota.mn.us From: Hanrahan, Suzanne [mailto:Suzanne,Hanrahan@CO.DAKOTA,MN.US]

Sent: Wednesday, November 19, 2014 9:50 PM

To: Manson, Colin

Subject: RE: Metropolitan Council Regional Solicitation Grant Application

Colin,

It took a little longer to get the cost estimate completed than anticipated. Below is the cost breakdown for the project as proposed below:

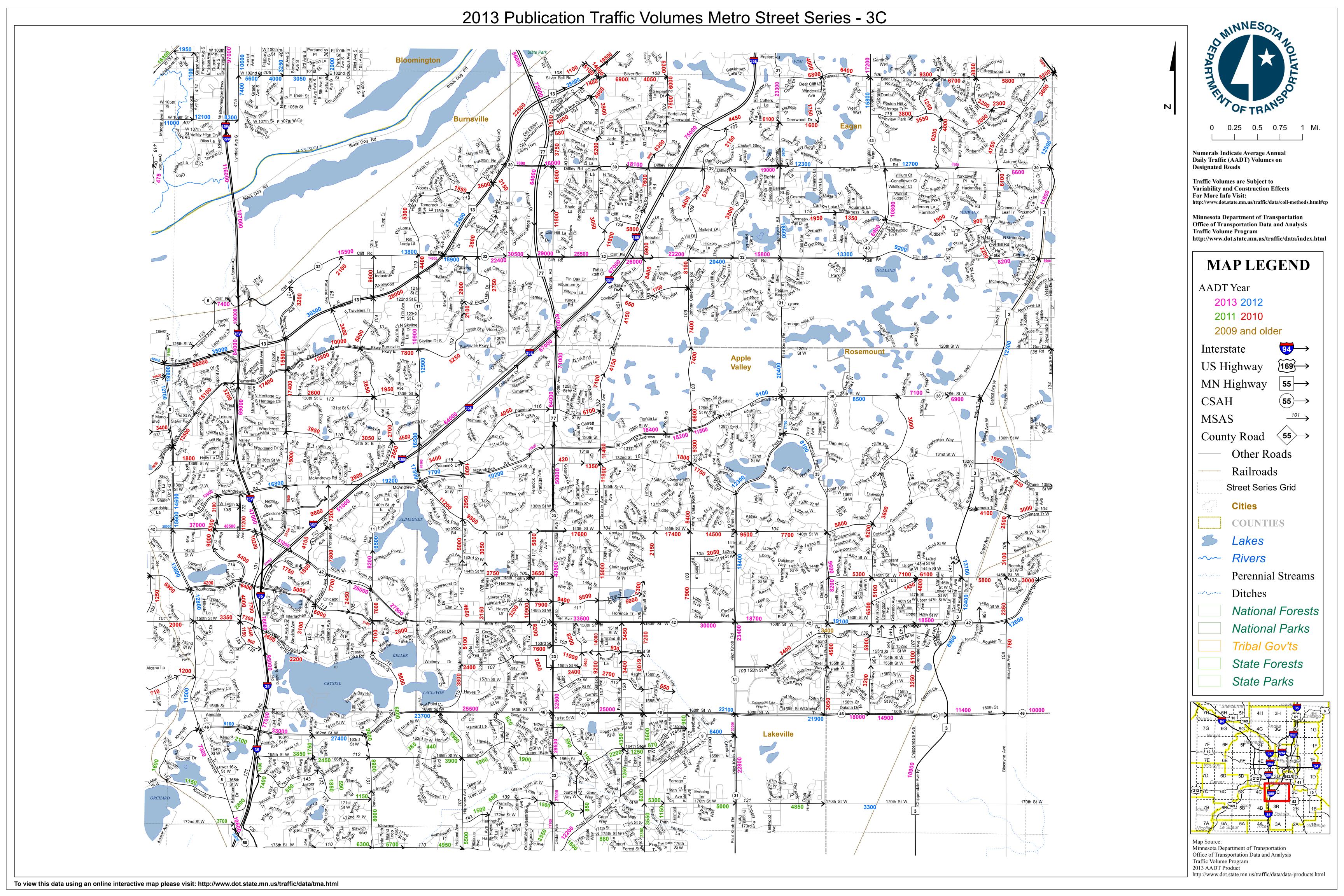
	Total Project Cost	Federal Contribution	County Contribution	Apple Valley Contribution	Lakeville Contribution	Locations of FYA Conversions
Fiber Optic Interconnect Installation / Flashing Yellow Arrow Conversions / Traffic Monitoring Cameras	\$1,270,000	\$1,015,000	\$174,000	\$40,000	\$41,000	On 160 th /162 nd St: Ipava, LacLavon, Garden View, Galaxie, Foliage, Flagstaff On Pilot Knob: 170th St, Dodd, 142nd St, 140th St, Diamond Path, McAndrews Rd
Engineering Costs (8%) Not covered by federal funds	\$91,000	\$0	\$63,000	\$14,000	\$14,000	
Total	\$1,361,000	\$1,015,000	\$237,000	\$54,000	\$55,000	

Attached is the formal request letter from the County for Apple Valley's support in the project. I'm not sure what you'll be able to give me in the short timeframe, but if so, the application is due December 1st so it would need to be before then.

Please let me know if you have any questions/comments.

Thanks,

Suzanne

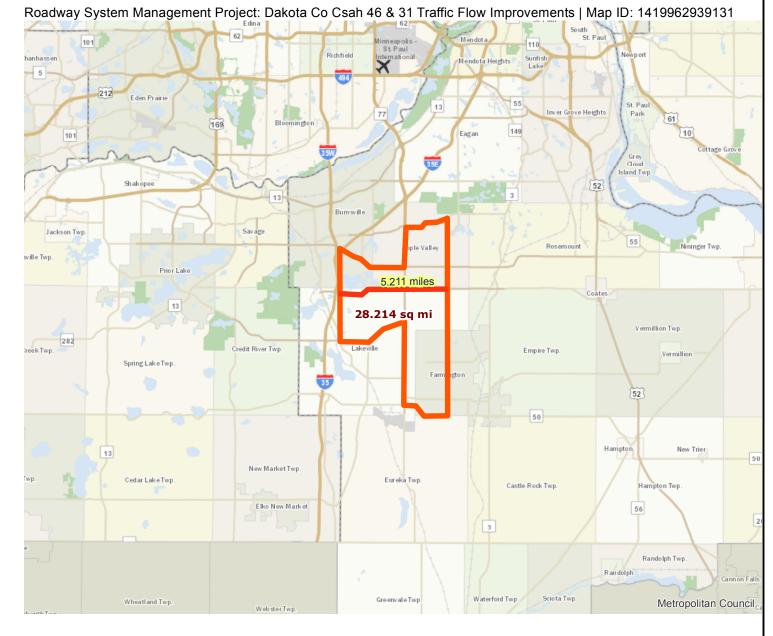


Roadway Area Definition

Results

Project Length: 5.211 miles

Project Area: 28.214 sq mi





Project Area

2.75 5.5 11



22

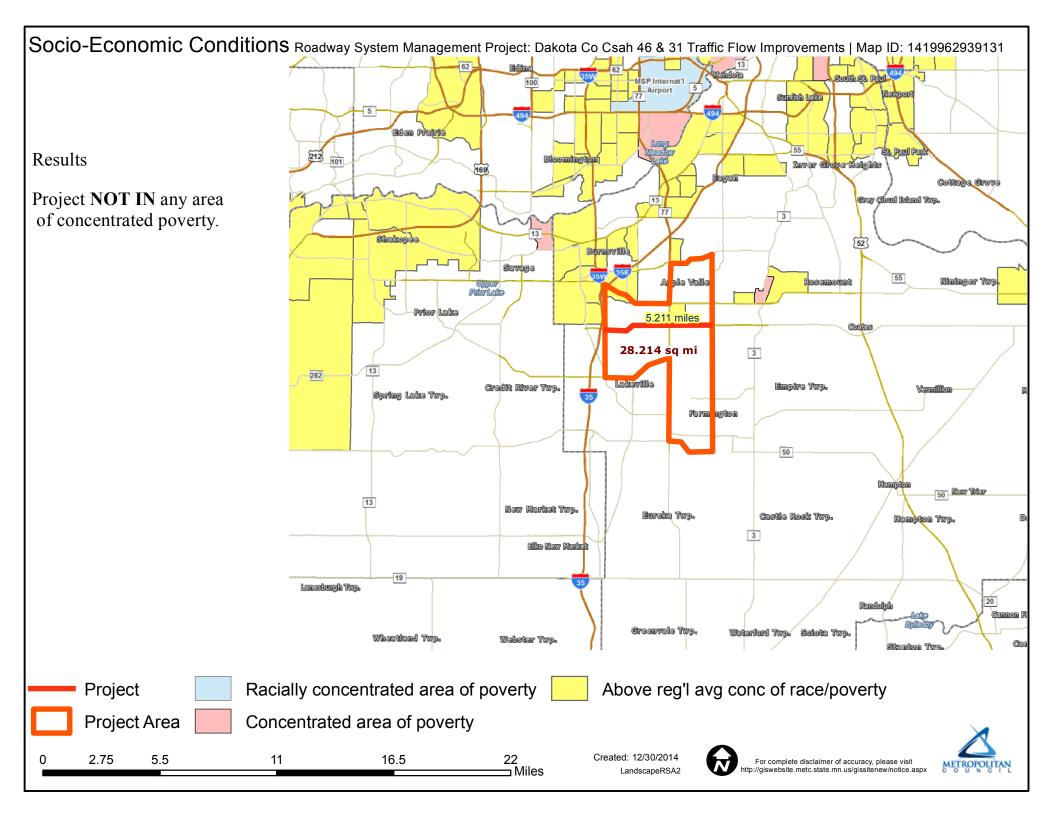
16.5

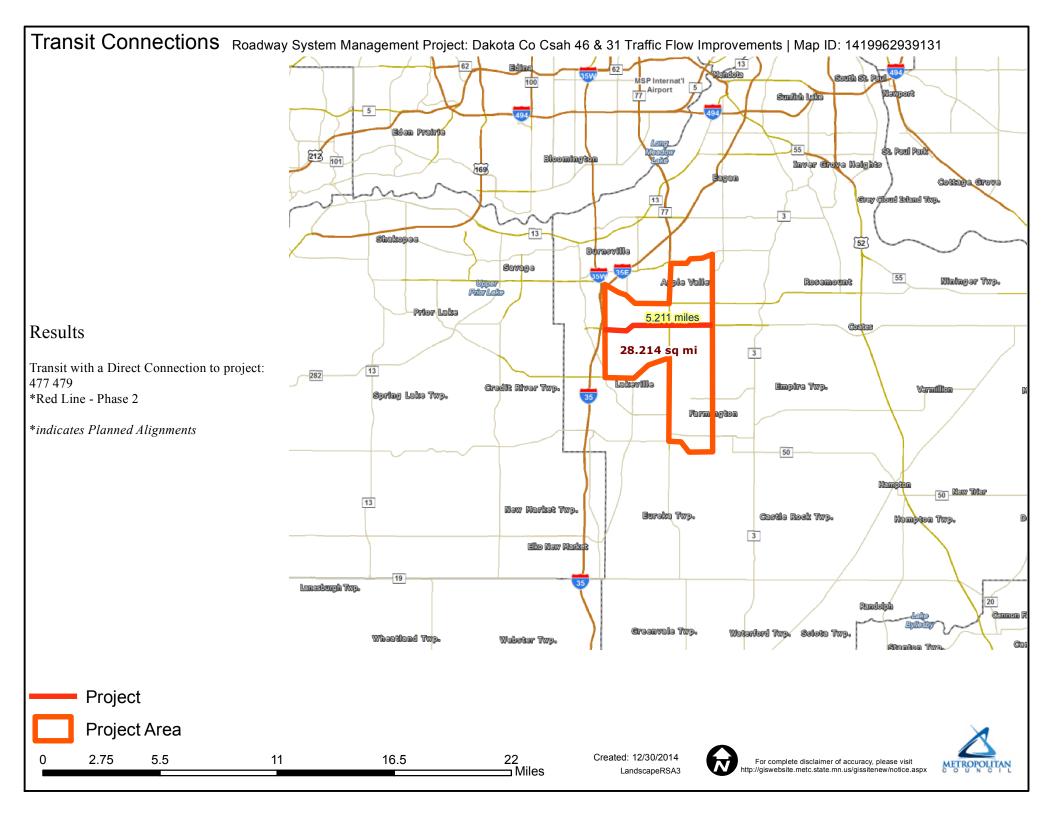
Created: 12/30/2014 LandscapeRSA1





Regional Economy Roadway System Management Project: Dakota Co Csah 46 & 31 Traffic Flow Improvements | Map ID: 1419962939131 Sunfish Lak Eden Pretnié St. Paul Park 212 Inver Grove Heights Cottago Grova 13 Gray Cloud Behad Top. Results 13 Shakopaa 52 Project WITHIN ONE MI of area of Burnevilla Job Concentration. Savaga pla Valla Mininger Twp. Resemedat Upper Piler Leke Project NOT IN to area of Manufacturing and Distribution. Prior Laka 5.211 miles Project NOT CONNECTED to area of 28.214 sq mi **Education Institutions.** 282 Lakéville Credit River Twp. Empira Twp. Spring Lake Two. Farm ngton 50 50 Naw War New Market Two. Bureka Two. Castle Rock Twp. Hampton Twp. Elko Naw Market Lanceburgh Typ. 20 Greenvale Twp. Waterford Two Sciota Twp. Wheatland Two. Wabstar Twp. **Project** Project Area Created: 12/30/2014 2.75 5.5 11 16.5 22 For complete disclaimer of accuracy, please visit http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx LandscapeRSA5



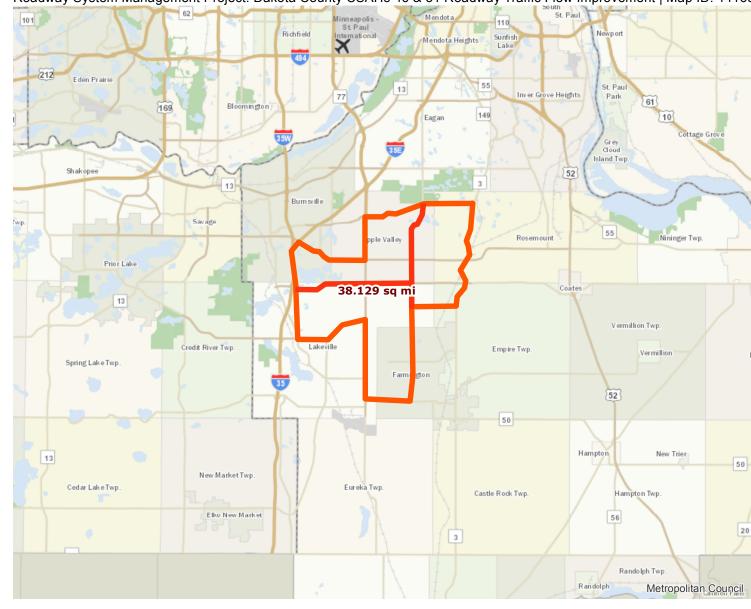


Roadway Area Definition Roadway System Management Project: Dakota County CSAHs 46 & 31 Roadway Traffic Flow Improvement | Map ID: 14160 9673

Results

Project Length: 10.966 miles

Project Area: 38.129 sq mi



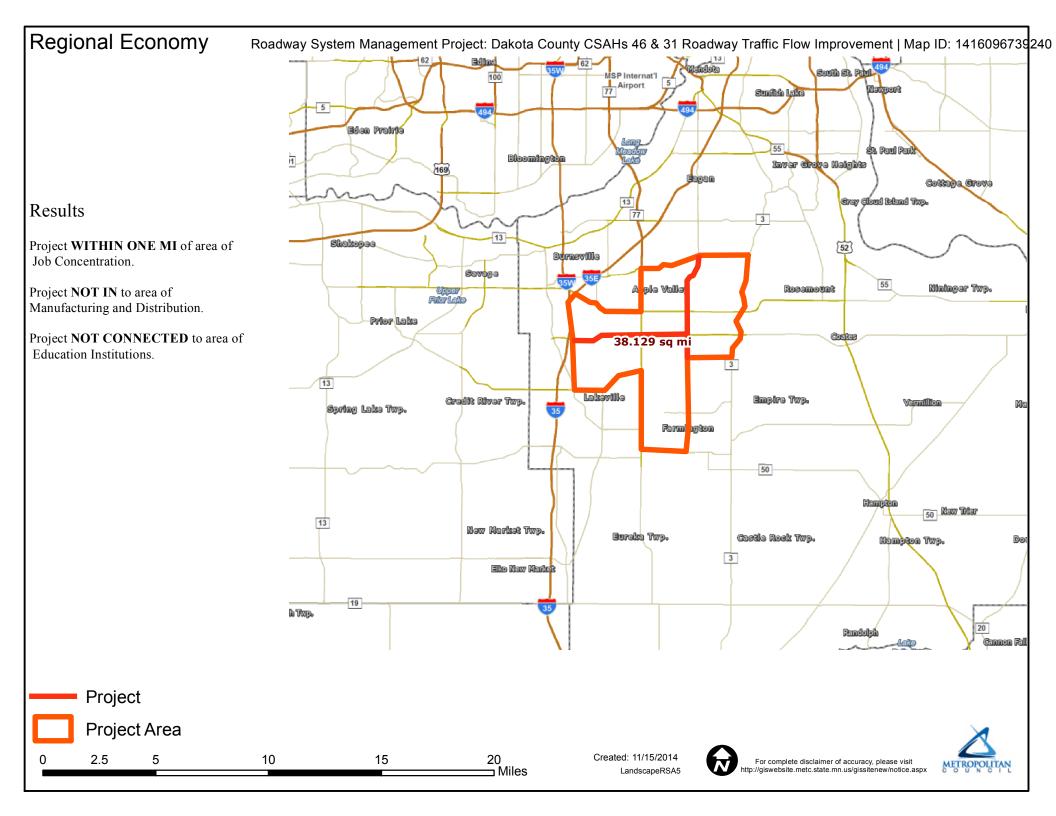


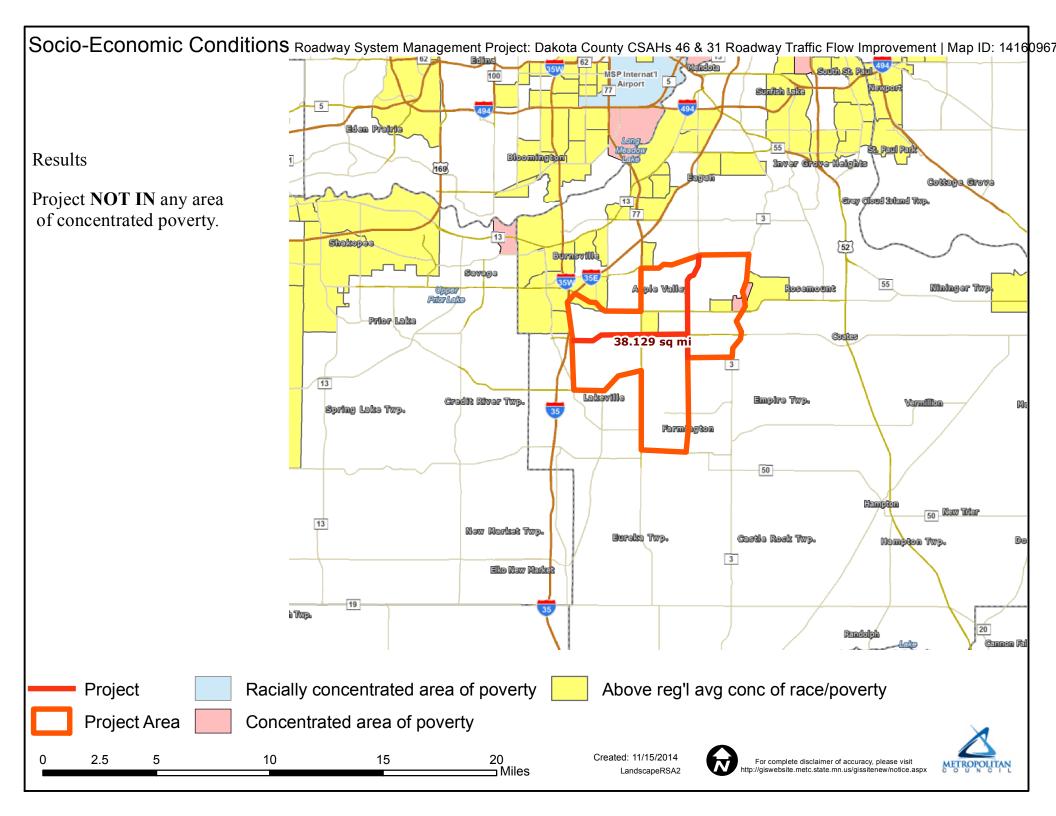
0 2.5 5 10 15 20 Miles











Direction:	All	
Volume (vph)	4133	
Total Delay / Veh (s/v)	54	
CO Emissions (kg)	13.90	
NOx Emissions (kg)	2.70	
VOC Emissions (kg)	3.22	

11: CSAH 31/Pilot Knob Rd & CSAH 46/160th Street

Direction	All	
Volume (vph)	4946	
Total Delay / Veh (s/v)	71	
CO Emissions (kg)	14.90	
NOx Emissions (kg)	2.90	
VOC Emissions (kg)	3.45	

17: Pilot Knob Rd/CSAH 31 & Park & Ride/157th St

Direction	All	
Volume (vph)	2666	
Total Delay / Veh (s/v)	24	
CO Emissions (kg)	6.21	
NOx Emissions (kg)	1.21	
VOC Emissions (kg)	1.44	

20: CSAH 31 & 170th St

Direction	All	(
Volume (vph)	3272	
Total Delay / Veh (s/v)	28	
CO Emissions (kg)	8.42	
NOx Emissions (kg)	1.64	
VOC Emissions (kg)	1.95	



23: CSAH 31 & CSAH 9

Direction	Al .	
Volume (vph)	3697	
Total Delay / Veh (s/v)	67	
CO Emissions (kg)	9.65	
NOx Emissions (kg)	1 88	
VOC Emissions (kg)	2.24	

Direction	All	
Volume (vph)	4133	
Total Delay / Veh (s/v)	42	
CO Emissions (kg)	13.38	
NOx Emissions (kg)	2.60	
VOC Emissions (kg)	3.10	

11: CSAH 31/Pilot Knob Rd & CSAH 46/160th Street

Direction	All	
Volume (vph)	4946	
Total Delay / Veh (s/v)	67	
CO Emissions (kg)	14.27	
NOx Emissions (kg)	2.78	
VOC Emissions (kg)	3.31	

17: Pilot Knob Rd/CSAH 31 & Park & Ride/157th St

Direction	All	
Volume (vph)	2666	
Total Delay / Veh (s/v)	26	
CO Emissions (kg)	5.75	
NOx Emissions (kg)	1.12	
VOC Emissions (kg)	1.33	

20: CSAH 31 & 170th St

Direction	AI	
Volume (vph)	3272	
Total Delay / Veh (s/v)	20	
CO Emissions (kg)	6.83	
NOx Emissions (kg)	1.33	
VOC Emissions (kg)	1.58	

★ 23: CSAH 31 & CSAH 9

All Landson	
3697	
34	
7.67	
1.49	
1.78	
	3697 34 7.67 1.49

Direction:	All	
Volume (vph)	4133	
Total Delay / Veh (s/v)	54	
CO Emissions (kg)	13.90	
NOx Emissions (kg)	2.70	
VOC Emissions (kg)	3.22	

11: CSAH 31/Pilot Knob Rd & CSAH 46/160th Street

Direction	All	
Volume (vph)	4946	
Total Delay / Veh (s/v)	71	
CO Emissions (kg)	14.90	
NOx Emissions (kg)	2.90	
VOC Emissions (kg)	3.45	

17: Pilot Knob Rd/CSAH 31 & Park & Ride/157th St

Direction	All	
Volume (vph)	2666	
Total Delay / Veh (s/v)	24	
CO Emissions (kg)	6.21	
NOx Emissions (kg)	1.21	
VOC Emissions (kg)	1.44	

20: CSAH 31 & 170th St

Direction	All	(
Volume (vph)	3272	
Total Delay / Veh (s/v)	28	
CO Emissions (kg)	8.42	
NOx Emissions (kg)	1.64	
VOC Emissions (kg)	1.95	



23: CSAH 31 & CSAH 9

Direction	Al .	
Volume (vph)	3697	
Total Delay / Veh (s/v)	67	
CO Emissions (kg)	9.65	
NOx Emissions (kg)	1 88	
VOC Emissions (kg)	2.24	

Direction	All	
Volume (vph)	4133	
Total Delay / Veh (s/v)	42	
CO Emissions (kg)	13.38	
NOx Emissions (kg)	2.60	
VOC Emissions (kg)	3.10	

11: CSAH 31/Pilot Knob Rd & CSAH 46/160th Street

Direction	All	
Volume (vph)	4946	
Total Delay / Veh (s/v)	67	
CO Emissions (kg)	14.27	
NOx Emissions (kg)	2.78	
VOC Emissions (kg)	3.31	

17: Pilot Knob Rd/CSAH 31 & Park & Ride/157th St

Direction	All	
Volume (vph)	2666	
Total Delay / Veh (s/v)	26	
CO Emissions (kg)	5.75	
NOx Emissions (kg)	1.12	
VOC Emissions (kg)	1.33	

20: CSAH 31 & 170th St

Direction	AI	
Volume (vph)	3272	
Total Delay / Veh (s/v)	20	
CO Emissions (kg)	6.83	
NOx Emissions (kg)	1.33	
VOC Emissions (kg)	1.58	

★ 23: CSAH 31 & CSAH 9

All Landson	
3697	
34	
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	3697 34 7.67 1.49

