Application

17072-2022 Roadway Expansion
17639 - Highway 10 Mobility and Access Corridor Improvement
Regional Solicitation - Roadways Including Multimodal Elements

Status:
Submitted Date:
Submitted
04/14/2022 11:22 AM

## Primary Contact



## Organization Information

Name:

Jurisdictional Agency (if different):
Organization Type: County Government
Organization Website:
Address:
PUBLIC WORKS
11360 HWY 212 W \#1

| $*$ | COLOGNE | Minnesota | Stase/Province |
| :--- | :--- | :--- | :--- |

Phone:*
Ext.

Fax:

PeopleSoft Vendor Number
0000026790A12

## Project Information

Project Name
Primary County where the Project is Located
Cities or Townships where the Project is Located:
Jurisdictional Agency (If Different than the Applicant):

Highway 10 Mobility and Access Corridor Improvement
Carver
Laketown Township, Chaska

The Highway 10 Mobility and Access Corridor Improvement project will reconstruct Highway 10 between Chaska Creek and east of the Twin Cities Western Rail at-grade crossing. Proposed improvements include the expansion of Highway 10, and legs of Highway 11, from a two-lane undivided rural section to a four-lane divided urban section, and multi-use trail facilities throughout where none exist today. The intersection of Highway 10 and Creek Road will be reconstructed as a Reduced Conflict Intersection (RCI). The intersection of Highways 10 and 11 will be reconstructed with added turn lanes and include a new traffic signal and improved pedestrian facilities.

Highways 10 and 11 are classified as an A-Minor Arterial connecting the cities of Chaska, Victoria, Waconia and Carver, as well as providing access to US 212. Highway 10 is also one of only three major thoroughfares running east-west through Carver County. Highway 11 is a vital north-south regional link between the cities of Victoria and Carver to Highway 10, Trunk Highway 5 and to US 212. Due to significant residential growth in these communities in recent years, this project need is identified in multiple planning documents and studies as a priority improvement to support local and regional mobility as development continues and the population of Carver County continues to grow. Creek Road, intersecting with the project near the east extents, serves as an alternate route to downtown Chaska and has seen notable industrial development in the last year, causing a significant increase in freight traffic.

This segment of Highway 10, and its intersection with Highway 11, are currently overcapacity and experiencing delays in the peak hours. Forecasted development and traffic growth, not only in the
immediate project area but also in the surrounding cities, will only exacerbate the operations and safety issues experienced today.

Proposed improvements will offer immediate relief for existing and long-term capacity concerns for regional growth. Proposed multimodal trail facilities will fill an existing gap in a Tier 2 RBTN alignment along Highway 10 and connect into an existing regional Tier 2 RBTN alignment along Highway 11. This will provide active transportation options for a quickly developing regional area and the adjacent future commercial growth parcels surrounding the Highway 10 and 11 intersection.

TRANSPORTATION IMPROVEMENT PROGRAM (TIP) DESCRIPTION - will be used in TIP if the project is selected for funding. See MnDOT's TIP description guidance.

Highway expansion of CSAH 10 from Chaska Creek to east of TCWR Crossing in Carver County

Include both the CSAH/MSAS/TH references and their corresponding street names in the TIP Description (see Resources link on Regional Solicitation webpage for examples).
$\begin{array}{ll}\text { Project Length (Miles) } & 2.3\end{array}$
to the nearest one-tenth of a mile

## Project Funding

Are you applying for competitive funds from another source(s) to implement this project?

If yes, please identify the source(s)
Federal Amount \$7,416,000.00
Match Amount \$1,854,000.00
Minimum of 20\% of project total
Project Total \$9,270,000.00
For transit projects, the total cost for the application is total cost minus fare revenues.
Match Percentage 20.0\%
Minimum of 20\%
Compute the match percentage by dividing the match amount by the project total
Source of Match Funds
County, City
A minimum of $20 \%$ of the total project cost must come from non-federal sources; additional match funds over the $20 \%$ minimum can come from other federal sources

## Preferred Program Year

Select one:
2026, 2027

Select 2024 or 2025 for TDM and Unique projects only. For all other applications, select 2026 or 2027.
Additional Program Years:
2025
Select all years that are feasible if funding in an earlier year becomes available.

## Project Information-Roadways

| County, City, or Lead Agency | Carver |
| :---: | :---: |
| Functional Class of Road | A-Minor Expander |
| Road System | CSAH |
| TH, CSAH, MSAS, CO. RD., TWP. RD., CITY STREET |  |
| Road/Route No. | 10 |
| i.e., 53 for CSAH 53 |  |
| Name of Road | Engler Blvd |
| Example; 1st ST., MAIN AVE |  |
| Zip Code where Majority of Work is Being Performed | 55318 |
| (Approximate) Begin Construction Date | 04/01/2026 |
| (Approximate) End Construction Date | 11/01/2026 |
| TERMINI:(Termini listed must be within 0.3 miles of any work) |  |
| From: <br> (Intersection or Address) | Creek Lane |
| To: <br> (Intersection or Address) | 200 ft east of TCWR RR Xing of Highway 10 |
| DO NOT INCLUDE LEGAL DESCRIPTION |  |
| Or At |  |
| Miles of Sidewalk (nearest 0.1 miles) | 0 |
| Miles of Trail (nearest 0.1 miles) | 1.6 |
| Miles of Trail on the Regional Bicycle Transportation Network (nearest 0.1 miles) | 1.6 |
| Primary Types of Work | GRADE, AGG BASE, BIT SURF, SIGNALS, LIGHTING, BIKE PATH, PED RAMPS |
| Examples: GRADE, AGG BASE, BIT BASE, BIT SURF, <br> SIDEWALK, CURB AND GUTTER,STORM SEWER, <br> SIGNALS, LIGHTING, GUARDRAIL, BIKE PATH, PED RAMPS, BRIDGE, PARK AND RIDE, ETC. |  |
| BRIDGE/CULVERT PROJECTS (IF APPLICABLE) |  |
| Old Bridge/Culvert No.: |  |
| New Bridge/Culvert No.: |  |
| Structure is Over/Under <br> (Bridge or culvert name): |  |

## 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 2040 Transportation Policy Plan (2018), the 2040 Regional Parks Policy Plan (2018), and the 2040 Water Resources Policy Plan (2015).

Check the box to indicate that the project meets this requirement. Yes
2. The project must be consistent with the 2040 Transportation Policy Plan. Reference the 2040 Transportation Plan goals, objectives, and strategies that relate to the project.

Briefly list the goals, objectives, strategies, and associated pages:

The project aligns with the 2040 Transportation Policy Plan by prioritizing the following goals and strategies:

Goal: Safety and Security (p. 60)

Objective: A) Reduce crashes and improve safety and security for all modes of passenger travel and freight transport (p. 60)

Strategies: B1) (p. 2.20); B3) (p. 2.21); B4) (p. 2.22); and B6).

Goal: Access to Destinations (p. 62)

Objectives: B) Increase travel time reliability and predictability for travel on highway and transit systems.

Strategies: C1) (p. 2.24); C2) (p. 2.25); C9) (p. 2.32); C15) (p. 2.36), and C16) (p. 2.36).

Goal: Competitive Economy (p. 64)

Objective: B.) Invest in a multimodal transportation system to attract and retain businesses and residents (p. 64)

Strategies: D2) (p. 2.38); and D4) (p. 2.40).

Goal: Healthy Environment (p. 66)

Objectives: A) Reduce transportation-related air emissions; C) Increase the availability and attractiveness of transit, bicycling, and walking to encourage healthy communities and active car-free lifestyles.

Strategies: E2) (p. 2.43); E6) (p. 2.46)

Goal: Leveraging Transportation Investment to

Limit 2,800 characters, approximately 400 words
3. The project or the transportation problem/need that the project addresses must be in a local planning or programming document. 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 the Minnesota Department of Transportation 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.

Carver County 2040 Comprehensive Plan: pages
4.11, 4.12, 4.22,4.39-43.

Carver County 2013 Roadway Safety Plan: page 420.

List the applicable documents and pages: Unique projects are exempt from this qualifying requirement because of their innovative nature.

City of Chaska 2040 Comprehensive Plan: pages 6-15, 6-30, 6-66.

City of Victoria 2040 Comprehensive Plan: pages 122, 124.

Highway 10 Corridor Study (2018-2020): pages 1315, 56, 74-80.

Limit 2,800 characters, approximately 400 words
4.The project must exclude costs for studies, preliminary engineering, design, or construction engineering. Right-of-way costs are only eligible as part of transit stations/stops, transit terminals, park-and-ride facilities, or pool-and-ride lots. Noise barriers, drainage projects, fences, landscaping, etc., are not eligible for funding as a standalone project, but can be included as part of the larger submitted project, which is otherwise eligible. Unique project costs are limited to those that are federally eligible.

Check the box to indicate that the project meets this requirement. Yes
5.Applicant is a public agency (e.g., county, city, tribal government, transit provider, etc.) or non-profit organization (TDM and Unique Projects applicants only). Applicants that are not State Aid 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
6.Applicants must not submit an application for the same project elements in more than one funding application category.

Check the box to indicate that the project meets this requirement. Yes
7.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. Funding amounts by application category are listed below in Table 1. For unique projects, the minimum award is $\$ 500,000$ and the maximum award is the total amount available each funding cycle (approximately \$4,000,000 for the 2022 funding cycle).

Strategic Capacity (Roadway Expansion): \$1,000,000 to \$10,000,000
Roadway Reconstruction/Modernization: $\$ 1,000,000$ to $\$ 7,000,000$
Traffic Management Technologies (Roadway System Management): \$500,000 to \$3,500,000
Spot Mobility and Safety: $\$ 1,000,000$ to $\$ 3,500,000$
Bridges Rehabilitation/Replacement: \$1,000,000 to \$7,000,000
Check the box to indicate that the project meets this requirement. Yes
8.The project must comply with the Americans with Disabilities Act (ADA).

Check the box to indicate that the project meets this requirement. Yes
9.In order for a selected project to be included in the Transportation Improvement Program (TIP) and approved by USDOT, the public agency sponsor must either have a current Americans with Disabilities Act (ADA) self-evaluation or transition plan that covers the public right of way/transportation, as required under Title II of the ADA. The plan must be completed by the local agency before the Regional Solicitation application deadline. For the 2022 Regional Solicitation funding cycle, this requirement may include that the plan is updated within the past five years.

The applicant is a public agency that employs 50 or more people and has a completed ADA transition plan that covers the public Yes right of way/transportation.
(TDM and Unique Project Applicants Only) The applicant is not a public agency subject to the self-evaluation requirements in Title II of the ADA.

Date plan completed:
02/18/2014
https://www.co.carver.mn.us/home/showdocument?

Link to plan:
$i d=1164$

The applicant is a public agency that employs fewer than 50 people and has a completed ADA self-evaluation that covers the public right of way/transportation.

Date self-evaluation completed:

## Link to plan:

Upload plan or self-evaluation if there is no link
Upload as PDF
10.The project must be accessible and open to the general public.

Check the box to indicate that the project meets this requirement. Yes
11.The owner/operator of the facility must operate and maintain the project year-round for the useful life of the improvement, per FHWA direction established 8/27/2008 and updated 6/27/2017. Unique projects are exempt from this qualifying requirement.

Check the box to indicate that the project meets this requirement. Yes
12.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
13. 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
14.The project applicant must send written notification regarding the proposed project to all affected state and local units of government prior to submitting the application.

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

## Roadways Including Multimodal Elements

1.All roadway and bridge projects 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. Yes
Roadway Strategic Capacity and Reconstruction/Modernization and Spot Mobility projects only:
2. The project must be designed to meet 10-ton load limit standards.

Check the box to indicate that the project meets this requirement. Yes
Bridge Rehabilitation/Replacement and Strategic Capacity projects only:
3.Projects requiring a grade-separated crossing of a principal arterial freeway 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. Yes
4.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 application categories. Rail-only bridges are ineligible for funding.

Check the box to indicate that the project meets this requirement. Yes
Bridge Rehabilitation/Replacement projects only:
5. The length of the bridge clear span must exceed 20 feet.

Check the box to indicate that the project meets this requirement.
6. The bridge must have a National Bridge Inventory Rating of 6 or less for rehabilitation projects and 4 or less for replacement projects.

Check the box to indicate that the project meets this requirement.
Roadway Expansion, Reconstruction/Modernization, and Bridge Rehabilitation/Replacement projects only:
7. All roadway projects that involve the construction of a new/expanded interchange or new interchange ramps must have approval by the Metropolitan Council/MnDOT Interchange Planning Review Committee prior to application submittal. Please contact Michael Corbett at MnDOT ( Michael.J.Corbett@state.mn.us or 651-234-7793) to determine whether your project needs to go through this process as described in Appendix F of the 2040 Transportation Policy Plan.

Check the box to indicate that the project meets this requirement. Yes
Specific Roadway Elements
CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES

Cost
Mobilization (approx. 5\% of total cost) \$300,400.00
Removals (approx. 5\% of total cost) \$496,500.00
Roadway (grading, borrow, etc.) \$3,429,200.00
Roadway (aggregates and paving) \$1,800,000.00
Subgrade Correction (muck) \$0.00
Storm Sewer \$132,500.00
Ponds \$132,500.00
Concrete Items (curb \& gutter, sidewalks, median barriers) \$483,300.00
Traffic Control \$300,000.00
Striping \$91,000.00
Signing \$91,000.00
Lighting \$25,000.00
Turf - Erosion \& Landscaping \$300,000.00
Bridge \$0.00
Retaining Walls \$0.00
Noise Wall (not calculated in cost effectiveness measure) \$0.00
$\begin{array}{lr}\text { Traffic Signals } & \$ 330,000.00\end{array}$
Wetland Mitigation \$0.00
Other Natural and Cultural Resource Protection \$0.00
RR Crossing \$0.00
Roadway Contingencies \$1,200,000.00
Other Roadway Elements \$0.00
Totals $\mathbf{\$ 9 , 1 1 1 , 4 0 0 . 0 0}$

## Specific Bicycle and Pedestrian Elements

CONSTRUCTION PROJECT ELEMENTS/COST
ESTIMATES

## Cost

Path/Trail Construction \$92,600.00
Sidewalk Construction \$0.00
On-Street Bicycle Facility Construction \$0.00
Right-of-Way \$0.00

| Pedestrian Curb Ramps (ADA) | \$6,000.00 |
| :---: | :---: |
| Crossing Aids (e.g., Audible Pedestrian Signals, HAWK) | \$0.00 |
| Pedestrian-scale Lighting | \$0.00 |
| Streetscaping | \$60,000.00 |
| Wayfinding | \$0.00 |
| Bicycle and Pedestrian Contingencies | \$0.00 |
| Other Bicycle and Pedestrian Elements | \$0.00 |
| Totals | \$158,600.00 |
| Specific Transit and TDM Elements |  |
| CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES | Cost |
| Fixed Guideway Elements | \$0.00 |
| Stations, Stops, and Terminals | \$0.00 |
| Support Facilities | \$0.00 |
| Transit Systems (e.g. communications, signals, controls, fare collection, etc.) | \$0.00 |
| Vehicles | \$0.00 |
| Contingencies | \$0.00 |
| Right-of-Way | \$0.00 |
| Other Transit and TDM Elements | \$0.00 |
| Totals | \$0.00 |

## Transit Operating Costs

| Number of Platform hours | 0 |
| :--- | :--- |
| Cost Per Platform hour (full loaded Cost) | $\$ 0.00$ |
| Subtotal | $\$ 0.00$ |
| Other Costs - Administration, Overhead,etc. | $\$ 0.00$ |

## Totals

| Total Cost | $\$ 9,270,000.00$ |
| :--- | :--- |
| Construction Cost Total | $\$ 9,270,000.00$ |
| Transit Operating Cost Total | $\$ 0.00$ |

## Congestion within Project Area:

The measure will analyze the level of congestion within the project area. Council staff will provide travel speed data on the "Level of Congestion" map. The analysis will compare the peak hour travel speed within the project area to fee-flow conditions.
Free-Flow Travel Speed: 57

Peak Hour Travel Speed: 42
Percentage Decrease in Travel Speed in Peak Hour compared to Free-Flow:
26.32\%

Upload Level of Congestion map:
1649738800303_CSAH10W_LvlofCongest.pdf

## Congestion on adjacent Parallel Routes:

| Adjacent Parallel Corridor | CSAH 61 |
| :--- | :--- |
| Adjacent Parallel Corridor Start and End Points: |  |
| Start Point: | TH 41 |
| End Point: | Crosstown Blvd |
| Free-Flow Travel Speed: | 36 |
| The Free-Flow Travel Speed is black number. | 25 |
| Peak Hour Travel Speed: |  |
| The Peak Hour Travel Speed is red number. | $30.56 \%$ |
| Percentage Decrease in Travel Speed in Peak Hour Compared to <br> Free-Flow: <br> Upload Level of Congestion Map: | 1649738800303 CSAH10W_LvlofCongest.pdf |

## Principal Arterial Intersection Conversion Study:

Proposed interchange or at-grade project that reduces delay at a High Priority Intersection:
(80 Points)
Proposed at-grade project that reduces delay at a Medium Priority Intersection:
(60 Points)
Proposed at-grade project that reduces delay at a Low Priority Intersection:
(50 Points)
Proposed interchange project that reduces delay at a Medium Priority Intersection:
(40 Points)
Proposed interchange project that reduces delay at a Low Priority Intersection:

# Measure B: Project Location Relative to Jobs, Manufacturing, and Education 

Existing Employment within 1 Mile:
Existing Manufacturing/Distribution-Related Employment within 1 Mile:

Existing Post-Secondary Students within 1 Mile:
0
Upload Map 1649738892561_CSAH10W_Economy.pdf
Please upload attachment in PDF form.

## Measure C: Current Heavy Commercial Traffic

RESPONSE: Select one for your project, based on the updated 2021 Regional Truck Corridor Study:
Along Tier 1:

Miles:
0
(to the nearest 0.1 miles)
Along Tier 2:
Miles:
0
(to the nearest 0.1 miles)
Along Tier 3:
Yes
Miles:
2.3
(to the nearest 0.1 miles)
The project provides a direct and immediate connection (i.e., intersects) with either a Tier 1, Tier 2, or Tier 3 corridor:

None of the tiers:

## Measure A: Current Daily Person Throughput

| Location | CSAH 10, east of CSAH 11 |
| :--- | :--- |
| Current AADT Volume | 14100 |
| Existing Transit Routes on the Project | N/A |
| For New Roadways only, list transit routes that will likely be diverted to the new proposed roadway (if applicable). |  |
| Upload Transit Connections Map | 1649738930805_CSAH10W_Transit.pdf |
| Please upload attachment in PDF form. |  |

Response: Current Daily Person Throughput

## Measure B: $\mathbf{2 0 4 0}$ Forecast ADT

Use Metropolitan Council model to determine forecast (2040) ADT volume

If checked, METC Staff will provide Forecast (2040) ADT volume

## OR

Identify the approved county or city travel demand model to determine forecast (2040) ADT volume

Forecast (2040) ADT volume

Carver County 2040 Comprehensive Plan Model
Figure 4.7
21000

## Measure A: Engagement

i.Describe any Black, Indigenous, and People of Color populations, Iow-income populations, disabled populations, youth, or older adults within a $1 / 2$ mile of the proposed project. Describe how these populations relate to regional context. Location of affordable housing will be addressed in Measure C.
ii.Describe how Black, Indigenous, and People of Color populations, low-income populations, persons with disabilities, youth, older adults, and residents in affordable housing were engaged, whether through community planning efforts, project needs identification, or during the project development process.
iii.Describe the progression of engagement activities in this project. A full response should answer these questions:

The project service area benefits low-income, persons with disabilities, youth and elderly, Hispanic, and underserved rural populations. A lowincome, Hispanic population has 430 households in Brandondale Manufactured Home neighborhoods approximately 2 miles east of the project area. The project also connects to the Chaska Public School campus with two middle schools, La Academia, outdoor activity fields, and the Chaska Community Center with numerous programs for youth, persons with disabilities, and the elderly. Chaska Middle School East and West and La Academia have a student population (K-8) of approximately 1,800 students. La Academia is a dual immersion program for learners starting in kindergarten with a goal for students to become biliterate and bilingual (Spanish and English).

Response:
These populations were engaged through the Highway 10 Corridor Study, a robust planning process with a focus on community engagement. Specific outreach to target populations included a pop-up meeting at the Chaska Community Center Lodge Senior Center on March 5, 2020; outreach to the Brandondale Manufactured Home neighborhood and translation of meeting invitations and materials into Spanish; neighborhood meetings; meetings with ISD 112 staff and survey of student's parents regarding transportation priorities for students.

In-person open houses were held on August 21, 2019 and December 19, 2019 with a virtual open house held in March-April 2020. To reach youth populations and families with children, an interactive online survey and comment map was made available with each round of public outreach. Residents were notified of public open houses or neighborhood meetings via direct postcard mailing.

The mailing list contained over 4,000 addresses. Meeting information was shared on social media including Facebook and Twitter and sent out via a project e-bulletin email with a project subscriber list of over 200. To reach rural populations that will benefit with improved regional mobility, the project was presented and discussed at the Laketown Township board meeting three times, including at the annual resident meeting with approximately 40 rural residents participating. Proposed improvements were presented to these groups and wide support for the project was gathered. Feedback from target populations focused on existing congestion, safety, and access concerns.

The project was impacted by public feedback with a strong desire for a near-term spot-mobility improvement instead of waiting for the full corridor reconstruct because of obvious concerns for significant safety and mobility issues. All populations will be further engaged through final design and construction. But funds are needed now for immediate regional safety and mobility benefits to these populations.
(Limit 2,800 characters; approximately 400 words):

## Measure B: Equity Population Benefits and Impacts

Describe the projects benefits to Black, Indigenous, and People of Color populations, low-income populations, children, people with disabilities, youth, and older adults. Benefits could relate to:
This is not an exhaustive list. A full response will support the benefits claimed, identify benefits specific to Equity populations residing or engaged in activities near the project area, identify benefits addressing a transportation issue affecting Equity populations specifically identified through engagement, and substantiate benefits with data.
Acknowledge and describe any negative project impacts to Black, Indigenous, and People of Color populations, low-income populations, children, people with disabilities, youth, and older adults. Describe measures to mitigate these impacts. Unidentified or unmitigated negative impacts may result in a reduction in points.
Below is a list of potential negative impacts. This is not an exhaustive list.

Response:
The project will improve a deficient corridor and regional intersections and provide mobility and access improvements through an investment serving long-term growth and multimodal travel demands for many years to come. Currently, the 2lane rural highway section is a regional traffic congestion barrier and safety issue for pedestrians in the area. Both Highway 11 and 10 are key connections for surrounding communities for health, employment, and education access, and the project will provide a reliable, safer, and more efficient connection.

The project will benefit all populations, including identified environmental justice populations living in the area, with improved regional connectivity and access to US 212 which is a major throughout fare to the SouthWest Transit East Creek Transit Station and job centers in Chaska and beyond to Eden Prairie and into the metro urban core. Highway 10, east of the project area, also parallels the Chaska Public School campus and Community Center. Downtown Chaska is an employment destination for much of the Hispanic/Latino population in the area. Through improvements to the Highway 10 corridor, this project will improve motorized and non-motorized access to this employment center and community destinations downtown.

Proposed multimodal trail facilities will fill an existing gap in a Tier 2 RBTN alignment along Highway 10 and connect into an existing regional Tier 2 RBTN alignment along Highway 11. This will provide active transportation options for existing disadvantaged populations and a quickly developing regional area and the adjacent future commercial growth parcels surrounding the Highway 10 and 11 intersection.

> This project will not create negative impacts for the low-income populations, people of color, children, people with disabilities, or the elderly in Carver County. Instead, Highway 10 corridor improvements and intersection improvements at the Highway $10 / 11$ intersection will decrease travel times through the corridor and increase travel time reliability, this also means a decrease in transportation cost and increases in quality of life.
(Limit 2,800 characters; approximately 400 words):

## Measure C: Affordable Housing Access

Describe any affordable housing developmentsexisting, under construction, or plannedwithin $1 / 2$ mile of the proposed project. The applicant should note the number of existing subsidized units, which will be provided on the Socio-Economic Conditions map. Applicants can also describe other types of affordable housing (e.g., naturally-occurring affordable housing, manufactured housing) and under construction or planned affordable housing that is within a half mile of the project. If applicable, the applicant can provide self-generated PDF maps to support these additions. Applicants are encouraged to provide a self-generated PDF map describing how a project connects affordable housing residents to destinations (e.g., childcare, grocery stores, schools, places of worship).
Describe the projects benefits to current and future affordable housing residents within $1 / 2$ mile of the project. Benefits must relate to affordable housing residents. Examples may include:
This is not an exhaustive list. Since residents of affordable housing are more likely not to own a private vehicle, higher points will be provided to roadway projects that include other multimodal access improvements. A full response will support the benefits claimed, identify benefits specific to residents of affordable housing, identify benefits addressing a transportation issue affecting residents of affordable housing specifically identified through engagement, and substantiate benefits with data.

There are 10 affordable housing units served by the $1 / 2$ mile buffer of the project area, all of which are owner-occupied Community Land Trust properties. The County can also confirm there are Housing Choice Vouchers being accepted by private landlords throughout this area. Affordability details for each location including number of units, number of bedrooms per unit, level of affordability, funding restrictions, voucher status, and fair housing plan status are listed in the attached documentation.

Also of note is affordable housing served by this project but outside the urban-focused $1 / 2$ mile boundary. The project is located in a rural township guided for one building eligibility per 40 acres, so a larger buffer area to define affordable housing served by the project would be consistent with Appendix D of the TPP. A cluster of affordable housing is located about one mile northeast of the project area. Another significant area served by the project is located 2 miles east of the project area and includes owner-occupied properties located in the Brandondale Manufactured Home neighborhood and approved Habitat for Humanity housing (8 units) at the southeast corner of the CSAH 10/TH 41 intersection. Shepherd of the Hill Presbyterian Church located at the southeast corner of CSAH 10/TH 41 intersection recently completed the final plat approval process with the City of Chaska for 8 new lots on the southeast corner of their property that will become twinhomes for Habitat for Humanity. The Brandondale Manufacture Home neighborhood has 430 existing units and is located 2.5 miles east of the project area. With space for up to 493 households, the Brandondale neighborhood is generally affordable to those at less than 30\% of AMI.

The project will improve the transportation system
for these residents by improving reliability and delay, enhancing pedestrian amenities, and better connecting to schools, parks, transit station, and jobs in the community and region. The project will decrease delay and emissions in the corridor for this environmental justice population.
(Limit 2,800 characters; approximately 400 words):

## Measure D: BONUS POINTS

Project is located in an Area of Concentrated Poverty:
Projects census tracts are above the regional average for population in poverty or population of color (Regional Environmental Justice Area):

Project located in a census tract that is below the regional average for population in poverty or populations of color (Regional Environmental Justice Area):

Upload the Socio-Economic Conditions map used for this measure.

Yes

1649953225924_CSAH10W_SocioEcon_combined.pdf

## Measure A: Infrastructure Age

Year of Original
Roadway Construction or Most Recent
Reconstruction

| 2006.0 | 0.3 | 601.8 | 261.652 |
| ---: | ---: | ---: | ---: |
| 1999.0 | 1.1 | 2198.9 | 956.043 |
| 2012.0 | 0.3 | 603.6 | 262.435 |
| 1998.0 | 0.6 | 1198.8 | 521.217 |
|  | $\mathbf{2}$ | 4603 | $\mathbf{2 0 0 1}$ |

## Average Construction Year

Weighted Year
2001.347

## Total Segment Length (Miles)

Total Segment Length

## Measure A: Congestion Reduction/Air Quality

| Total Peak |  |  |  |  |  |  | EXPLANA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hour | Total Peak | Total Peak |  |  |  |  | TION of |


| 39.0 | 19.0 | 20.0 | 6337 | 6487 | 126740.0 | 129740.0 | N/A |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

[^0]
## Vehicle Delay Reduced

Total Peak Hour Delay Reduced
126740.0

Total Peak Hour Delay Reduced

## Measure B:Roadway projects that do not include new roadway segments or railroad grade-separation elements

| Total (CO, NOX, and VOC) <br> Peak Hour Emissions <br> without the Project <br> (Kilograms): | Total (CO, NOX, and VOC) <br> Peak Hour Emissions with <br> the Project (Kilograms): | Total (CO, NOX, and VOC) <br> Peak Hour Emissions <br> Reduced by the Project <br> (Kilograms): |
| :---: | ---: | :---: |
| 12.69 | 11.66 |  |
| 13 | 12 | 1.03 |

## Total

Total Emissions Reduced:

Upload Synchro Report
1.03

1649709521199_CSAH 10W_Existing-Proposed
Conditions_AM Peak - Report-combined.pdf

# Measure B: Roadway projects that are constructing new roadway segments, but do not include railroad grade-separation elements (for Roadway Expansion applications only): <br> Total (CO, NOX, and VOC) <br> Peak Hour Emissions without the Project (Kilograms): <br> Total (CO, NOX, and VOC) <br> Peak Hour Emissions with the Project (Kilograms): <br> Total (CO, NOX, and VOC) <br> Peak Hour Emissions <br> Reduced by the Project (Kilograms): <br> 0 <br> 0 <br> 0 

## Total Parallel Roadway

Emissions Reduced on Parallel Roadways 0

Upload Synchro Report
Please upload attachment in PDF form. (Save Form, then click 'Edit' in top right to upload file.)

## New Roadway Portion:

Cruise speed in miles per hour with the project: 0
Vehicle miles traveled with the project: 0
Total delay in hours with the project: 0
Total stops in vehicles per hour with the project: 0
Fuel consumption in gallons: 0
Total (CO, NOX, and VOC) Peak Hour Emissions Reduced or 0
Produced on New Roadway (Kilograms):
EXPLANATION of methodology and assumptions used:(Limit
1,400 characters; approximately 200 words)
Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):
0.0

## Measure B:Roadway projects that include railroad grade-separation elements

Cruise speed in miles per hour without the project: 0
Vehicle miles traveled without the project: 0

Total delay in hours without the project: 0
Total stops in vehicles per hour without the project: 0
Cruise speed in miles per hour with the project: 0
Vehicle miles traveled with the project: 0

| Total delay in hours with the project: | 0 |
| :--- | :--- |
| Total stops in vehicles per hour with the project: | 0 |
| Fuel consumption in gallons (F1) | 0 |
| Fuel consumption in gallons (F2) | 0 |
| Fuel consumption in gallons (F3) | 0 |
| Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the | 0 |
| Project (Kilograms): |  |
| EXPLANATION of methodology and assumptions used:(Limit  <br> 1,400 characters; approximately 200 words) $\$ l$ |  |

## Measure A: Benefit of Crash Reduction

Crash Modification Factor Used:
(Limit 700 Characters; approximately 100 words)

Rationale for Crash Modification Selected:
(Limit 1400 Characters; approximately 200 words)
Project Benefit (\$) from B/C Ratio:
Total Fatal (K) Crashes:
\$8,768,187.00

0

Total Serious Injury (A) Crashes: 1
Total Non-Motorized Fatal and Serious Injury Crashes: 0
Total Crashes: 22
Total Fatal (K) Crashes Reduced by Project: 0
Total Serious Injury (A) Crashes Reduced by Project: 1
CMF's used in the crash reduction associated with intersection improvements include upgrading the typical sections within the project to a divided section and converting the Creek Road intersection from a sidestreet stop-control to an RCI (see attached).

The existing sections of Highways 10 and 11 are both undivided and many reported crashes can be associated with this condition. Implementing a divided section reduces opposing and head-on crashes and decreases conflict points at uncontrolled accesses. Restricting turning movements at Creek Road via an RCI not only reduces conflict points and the opportunity for dangerous left turn and angle crash types but provides much safer u-turn opportunities as only one direction of traffic is crossed at one time.
Total Non-Motorized Fatal and Serious Injury Crashes Reduced by Project:
Total Crashes Reduced by Project: ..... 3
Worksheet Attachment

# Roadway projects that include railroad grade-separation elements: 

| Current AADT volume: | 0 |
| :--- | :--- |
| Average daily trains: | 0 |
| Crash Risk Exposure eliminated: | 0 |

## Measure A: Pedestrian Safety

Determine if these measures do not apply to your project. Does the project match either of the following descriptions? If either of the items are checked yes, then score for entire pedestrian safety measure is zero. Applicant does not need to respond to the sub-measures and can proceed to the next section.

Project is primarily a freeway (or transitioning to a freeway) and does not provide safe and comfortable pedestrian facilities and No crossings.

Existing location lacks any pedestrian facilities (e.g., sidewalks, marked crossings, wide shoulders in rural contexts) and project does not add pedestrian elements (e.g., reconstruction of a No roadway without sidewalks, that doesnt also add pedestrian crossings and sidewalk or sidepath on one or both sides).

SUB-MEASURE 1: Project-Based Pedestrian Safety Enhancements and Risk Elements
To receive maximum points in this category, pedestrian safety countermeasures selected for implementation in projects should be, to the greatest extent feasible, consistent with the countermeasure recommendations in the Regional Pedestrian Safety Action Plan and state and national best practices. Links to resources are provided on the Regional Solicitation Resources web page.
Please answer the following two questions with as much detail as possible based on the known attributes of the proposed design. If any aspect referenced in this section is not yet determined, describe the range of options being considered, to the greatest extent available. If there are project elements that may increase pedestrian risk, describe how these risks are being mitigated.

1. Describe how this project will address the safety needs of people crossing the street at signalized intersections, unsignalized intersections, midblock locations, and roundabouts.
Treatments and countermeasures should be well-matched to the roadways context (e.g., appropriate for the speed, volume, crossing distance, and other location attributes). Refer to the Regional Solicitation Resources web page for guidance links.

The project reconstructs the existing non-motorized network and adds over a mile of regional trail in an RTBN Tier 2 corridor. A dedicated and separated trail facility, as opposed to current use of the narrow roadway shoulder, will make drivers aware of pedestrian presence. A raised center median between each direction of travel will aid in managing speeds within a roadway expansion project.

The project is located in a rural township area and reconstructs the only existing pedestrian crossing of Highway 10 at Highway 11 for over a mile to the east in the City of Chaska and over 6.5 miles to the west in the City of Waconia. Proposed Highway 10 and 11 expansion and multimodal improvements will include improvements at the intersection of Highway 10 and 11. Such will include marked crossings of the Highway 10 at Highway 11 intersection where an improved traffic signal will include APS components such as countdown times, APS push buttons, ADA compliant pedestrian ramps and high visibility crosswalk blocks. The traffic signal will also include intersection lighting for increased visibility to pedestrians during nighttime hours. Furthermore, the reconstruction of Highways 10 and 11 will feature raised center medians which will have sufficient width to provide refuge to pedestrians crossing at the intersection. This implementation is consistent with County, MnDOT, NCHRP and FHWA guidance for high-speed, high-volume intersections. Highway 11 (north of Highway 10) is planned for a future linking trail connecting the Cities of Chaska, Victoria, Carver and Waconia. The design of the Highway 10/11 intersection will plan to accommodate the junction of these two regional trail facilities.

## Select one:

No
If yes, describe what measures are being used to fill the gap between protected crossing opportunities for pedestrians (e.g., adding HighIntensity Activated Crosswalk beacons to help motorists yield and help pedestrians find a suitable gap for crossing, turning signal into a roundabout to slow motorist speed, etc.).

## Response:

(Limit 1,400 characters; approximately 200 words)
Will your design increase the crossing distance or crossing time across any leg of an intersection? (e.g., by adding turn or through lanes, widening lanes, using a multi-phase crossing, prohibiting crossing on any leg of an intersection, pedestrian bridge requiring length detour, etc.). This does not include any increases to crossing distances solely due to the addition of bike lanes (i.e., no other through or turn lanes being added or widened).

## Select one: Yes

If yes,
How many intersections will likely be affected?
Response: 1
Describe what measures are being used to reduce exposure and delay for pedestrians (e.g., median crossing islands, curb bulb-outs, etc.)

Response:
Project improvements of a divided urban section to Highway 11 will provide pedestrian refuge via the raised center island and subtract the distance of crossing rural ditches. Highway 10 will also be divided and provide a pedestrian refuge crossing point compared to the existing condition of crossing a high speed rural highway with free flow traffic at 57 mph and no pedestrian crossing infrastructure. Implementation of a new signal system at Highway 10/11 will include APS components, APS push buttons, ADA compliant pedestrian ramps and high visibility crosswalk blocks to improve the intersection crossing substantially over existing conditions even with increased overall crossing distance. Intersection radii will be balanced between truck turning movements and pedestrian exposure to traffic and be improved for pedestrians. The one leg of the project with an existing trail currently empties onto the roadway shoulder abruptly. This will be remedied by implementing pedestrian crossing signalization at the Highway 10/11 intersection. Currently pedestrians along Highway 10 are forced to use the roadway shoulder along the high-speed corridor with limited sight distance due to vertical and horizontal curves. The pedestrian safety and amenities will be greatly improved with this project compared to the existing rural section without pedestrian facilities.
(Limit 1,400 characters; approximately 200 words)
If grade separated pedestrian crossings are being added and increasing crossing time, describe any features that are included that will reduce the detour required of pedestrians and make the separated crossing a more appealing option (e.g., shallow tunnel that doesnt require much elevation change instead of pedestrian bridge with numerous switchbacks).

Response:
(Limit 1,400 characters; approximately 200 words)
If mid-block crossings are restricted or blocked, explain why this is necessary and how pedestrian crossing needs and safety are supported in other ways (e.g., nearest protected or enhanced crossing opportunity).

Response:
Mid-block crossings are not restricted or blocked; however, no mid-block crossings exist or are accommodated because there are currently no land uses to serve where a mid-block crossing may be desired. Pedestrian facilities will be implemented on one side of Highway 11 and Highway 10 to serve the existing and near-term development and are being implemented as the City of Victoria annexes and develops land north of the intersection. The area east of Highway 11 is designated as Chaska's green-belt and development is not expected in the 20-year Comprehensive Plan horizon. For this reason, pedestrian facilities are not needed to serve mid-block crossings from west to east across Highway 11 or to serve access to and from destinations on all sides of the project as might be required in urban areas, as it is currently a rural township area. Further, poor sightlines due to vertical and horizontal curvature further from the intersection create for unsafe and uncomfortable mid-block crossings that will detour users from wanting to cross mid-block within the project area. The new signal system at Highway 10 and 11 will include APS components such as countdown times, APS push buttons, ADA compliant pedestrian ramps and high visibility crosswalk blocks making the dedicated intersection crossings much more convenient for users. project-related factors that may affect speed directly or indirectly, even if speed is not the intended outcome (e.g., wider lanes and turning radii to facilitate freight movements, adding turn lanes to alleviate peak hour congestion, etc.). Note any strategies or treatments being considered that are intended to help motorists drive slower (e.g., visual narrowing, narrow lanes, truck aprons to mitigate wide turning radii, etc.) or protect pedestrians if increasing motorist speed (e.g., buffers or other separation from moving vehicles, crossing treatments appropriate for higher speed roadways, etc.).

The proposed project adds thru lanes; however, the existing corridor is a high speed rural highway with a posted speed limit of 55 mph and free flow traffic of 57 mph . The addition of the raised center median through the Highway 10/11 intersection area on Highway 10 and throughout on Highway 11, as well as a fully urban Highway 11 section will provide a counter to the existing conditions and added lanes

Response: by highlighting this as a pedestrian crossing area. For example, drivers naturally travel at lower speeds in urban sections where curb and gutter is present. Pedestrian crossings at Highway 10/11 will be marked, signalized, and use high visibility markings and signing to make drivers aware of their presence in the project area and to allow for dedicated pedestrian crossing movements compared to no existing pedestrian infrastructure.
(Limit 2,800 characters; approximately 400 words)
If known, what are the existing and proposed design, operation, and posted speeds? Is this an increase or decrease from existing conditions?

Response:
Existing posted speeds on CSAH 10 and 11 are 55 mph. Design speeds will likely maintain 55 mph .
(Limit 1,400 characters; approximately 200 words)
SUB-MEASURE 2: Existing Location-Based Pedestrian Safety Risk Factors
These factors are based on based on trends and patterns observed in pedestrian crash analysis done for the Regional Pedestrian Safety Action Plan. Check off how many of the following factors are present. Applicants receive more points if more risk factors are present.

Existing road configuration is a One-way, 3+ through lanes
or

Existing road configuration is a Two-way, 4+ through lanes
Existing road has a design speed, posted speed limit, or speed study/data showing 85th percentile travel speeds in excess of 30 Yes MPH or more

Existing road has AADT of greater than 15,000 vehicles per day
List the AADT
SUB-MEASURE 3: Existing Location-Based Pedestrian Safety Exposure Factors
These factors are based on based on trends and patterns observed in pedestrian crash analysis done for the Regional Pedestrian Safety Action Plan. Check off how many of the following existing location exposure factors are present. Applicants receive more points if more risk factors are present.

Existing road has transit running on or across it with 1+ transit stops in the project area (If flag-stop route with no fixed stops, then 1+ locations in the project area where roadside stops are allowed. Do not count portions of transit routes with no stops, such as non-stop freeway sections of express or limited-stop routes. If service was temporarily reduced for the pandemic but is expected to return to 2019 levels, consider 2019 service for this item.)

Existing road has high-frequency transit running on or across it and 1+ high-frequency stops in the project area (high-frequency defined as service at least every 15 minutes from 6am to 7 pm weekdays and 9am to 6 pm Saturdays. If service frequency was temporarily reduced for the pandemic but is expected to return to 2019 levels, consider 2019 frequency for this item.)

Existing road is within 500 of $1+$ shopping, dining, or entertainment destinations (e.g., grocery store, restaurant)

## Yes

The project will serve the existing Chaska Creek commercial and office development area just east of the project in the City of Chaska. This includes data center offices, shopping/grocery store, and medical offices.
The northwest quadrant of the Highway 11 and 10 intersection contains a parcel of land bounded by both highways and the TCWR tracks. This parcel is targeted for major development and annexation into the City of Victoria in the next 5 years. Expected land uses include commercial, light industrial, and medium-density residential. The site is anticipated to generate thousands of daily vehicle and pedestrian trips. The proposed improvements take this planned development into account and are expected to be able to adequately serve the additional traffic.
(Limit 1,400 characters; approximately 200 words)
Existing road is within 500 of other known pedestrian generators (e.g., school, civic/community center, senior housing, multifamily Yes housing, regulatorily-designated affordable housing)

Westbrook Community Church is located on the southwest quadrant of the CSAH 10 and 11 intersection. The church opened in 2021 and has plans for future expansion as area development increases. The Sri Saibaba Mandir Prayer Center is adjacent to the project and will also be served by the project. The northwest quadrant of the intersection is planned for heavy commercial, industrial, and high-density residential land use in the next 5 years. In addition, a regional trail along the Highway 11, connecting south to the City of Carver, generates a lot of trail users.

The existing Highway 10 corridor is a high speed rural highway with free flow traffic travelling at 57 mph and no dedicated pedestrian or bicycle infrastructure. A multi-use trail will be installed along the Highway 10 corridor to mitigate the existing condition. This segment is a RBTN Tier 2 Alignment connecting the Cities of Waconia and Chaska and connects to a Tier 2 Alignment along Highway 11 connecting south to the City of Carver. This project will also connect to a multi-use trail along Highway 11 to the City of Victoria

Improvements at the Highway 11 and 10 intersection will address needs for a major junction of the regional trail network. The intersection will be upgraded with a new signal system to include APS components such as countdown times, APS push buttons, ADA compliant ped. ramps and high visibility crosswalk blocks making the dedicated intersection crossings safer for users.

Response:
A multi-use trail is present along the east side of Highway 10/11 intersection south leg along Highway 11. This trail empties onto the eastern shoulder of the northern leg and terminates. All multi-use trails reinstalled with the project will be ADA compliant and an accessible pedestrian signal system will be installed at the intersection. The project will improve this crossing and prepare the intersection and corridor for expansion of pedestrian facilities to serve near-term development.

The project is located in a rural township area where wide shoulders on County roads serve as the only facility for multimodal users. In addition to the addition of a multi-use trail, the addition of thrulanes, a divided highway, and wider shoulders will better accommodate on-road bicyclists and pedestrians compared to the minimal aggregate shoulder existing within the project area.

The project is located in a Township and outside of the Transit Taxing District, however, SouthWest Transit provides on-demand transit service, SouthWest Prime, to the cities along the project corridor and utilizes the intersection for connecting trips. This transit service allows residents to use transit in a cost-effective on-demand system. Improvements to this intersection and the bicycle and pedestrian system will provide better access to SouthWest Prime transit service. Improvement to congestion at this intersection will improve access to the SouthWest Transit East Creek Station east of the project area.

## Transit Projects Not Requiring Construction

If the applicant is completing a transit application that is operations only, check the box and do not complete the remainder of the form. These projects will receive full points for the Risk Assessment.
Park-and-Ride and other transit construction projects require completion of the Risk Assessment below.
Check Here if Your Transit Project Does Not Require Construction

## Measure A: Risk Assessment - Construction Projects

## 1.Public Involvement ( 20 Percent of Points)

Projects that have been through a public process with residents and other interested public entities are more likely than others to be successful. The project applicant must indicate that events and/or targeted outreach (e.g., surveys and other web-based input) were held to help identify the transportation problem, how the potential solution was selected instead of other options, and the public involvement completed to date on the project. The focus of this section is on the opportunity for public input as opposed to the quality of input. NOTE: A written response is required and failure to respond will result in zero points.

Multiple types of targeted outreach efforts (such as meetings or online/mail outreach) specific to this project with the general public and partner agencies have been used to help identify the Yes project need.

100\%
At least one meeting specific to this project with the general public has been used to help identify the project need.

50\%
At least online/mail outreach effort specific to this project with the general public has been used to help identify the project need.

No meeting or outreach specific to this project was conducted, but the project was identified through meetings and/or outreach related to a larger planning effort.

25\%
No outreach has led to the selection of this project.
0\%
Describe the type(s) of outreach selected for this project (i.e., online or in-person meetings, surveys, demonstration projects), the method(s) used to announce outreach opportunities, and how many people participated. Include any public website links to outreach opportunities.

Response:
Agency coordination and public involvement were key components to the successful development of the Highway 10 Corridor Study. The study kicked off in late September 2018 and concluded with County Board and City Council resolutions of support in February and March 2021.Three public open houses occurred during the project. The first occurred on August 21, 2019, in the early phases of the study, to introduce the project and solicit input on issues, needs, and opportunities along the corridor. The second open house was held on December 19, 2019 to solicit input on a range of improvement options under consideration for Highway 10. The third open house occurred online from April 20th through May 6th due to restrictions on public gathering during the COVID-19 pandemic. Open house materials were posted online along with a survey to solicit input on all corridor improvement recommendations and proposed implementation. To reach rural populations that will benefit with improved regional mobility, the project was presented and discussed at the Laketown Township board meeting three times, including at the annual resident meeting with approximately 40 rural residents participating. Proposed improvements were presented to these groups and wide support for the project was gathered. Feedback from target populations focused on existing congestion, safety, and access concerns. Public feedback showed a strong desire for the expansion project as a long-term fix and heavily supported improvements at the Highway 11/10 intersection. To the public this project will address obvious concerns for significant safety and mobility issues. Engagement successfully solidified the needs of the area and provided support of the chosen vision.

The mailing area for open houses included over 2,400 properties covering a broad area of potential

> stakeholders surrounding the highway. A project website and Facebook page were maintained by Carver County Public Works throughout the duration of the project. Notices and meeting materials were posted on these media for review and comment by all as another means of communicating study progress and upcoming meetings to the public. An online comment map was also used to collect community input on issues during key periods in the study process. Participants were able to see input provided by others and provide responses to comments.

## Project website:

https://www.co.carver.mn.us/departments/public-works/projects-studies/highway-10-study-victoria-chaska-area
(Limit 2,800 characters; approximately 400 words)

## 2.Layout (25 Percent of Points)

Layout includes proposed geometrics and existing and proposed right-of-way boundaries. A basic layout should include a base map (north arrow; scale; legend;* city and/or county limits; existing ROW, labeled; existing signals;* and bridge numbers*) and design data (proposed alignments; bike and/or roadway lane widths; shoulder width;* proposed signals;* and proposed ROW). An aerial photograph with a line showing the projects termini does not suffice and will be awarded zero points. *If applicable

Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties/MnDOT. If a MnDOT trunk highway is impacted, approval by MnDOT must have occurred to receive full Yes points. A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

100\%
A layout does not apply (signal replacement/signal timing, standalone streetscaping, minor intersection improvements). Applicants that are not certain whether a layout is required should contact Colleen Brown at MnDOT Metro State Aid colleen.brown@state.mn.us.

## 100\%

For projects where MnDOT trunk highways are impacted and a MnDOT Staff Approved layout is required. Layout approved by the applicant and all impacted local jurisdictions (i.e., cities/counties), and layout review and approval by MnDOT is pending. A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

Layout has been started but is not complete. A PDF of the layout must be attached to receive points.

25\%
Layout has not been started
0\%
Attach Layout
1649738502301_Layout for upload_Hwy 10 Mobility.pdf
Please upload attachment in PDF form
Additional Attachments
1649738502294_Carver Co Layout Letter_Hwy10Mobility.pdf
Please upload attachment in PDF form.

## 3.Review of Section 106 Historic Resources (15 Percent of Points)

No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and Yes project is not located on an identified historic bridge
100\%
There are historical/archeological properties present but determination of no historic properties affected is anticipated.

100\%
Historic/archeological property impacted; determination of no adverse effect anticipated

80\%
Historic/archeological property impacted; determination of adverse effect anticipated

40\%
Unsure if there are any historic/archaeological properties in the project area.

0\%
Project is located on an identified historic bridge
4.Right-of-Way (25 Percent of Points)

Right-of-way, permanent or temporary easements, and MnDOT agreement/limited-use permit either not required or all have been acquired

100\%
Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required - plat, legal descriptions, or official map complete

50\%
Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required - parcels identified Yes

25\%
Right-of-way, permanent or temporary easements, and/or MnDOT agreement/limited-use permit required - parcels not all identified

## 5.Railroad Involvement (15 Percent of Points)

No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable) Yes
100\%

Signature Page
Please upload attachment in PDF form.
Railroad Right-of-Way Agreement required; negotiations have begun

50\%
Railroad Right-of-Way Agreement required; negotiations have not begun.

0\%

## Measure A: Cost Effectiveness

| Total Project Cost (entered in Project Cost Form): | $\$ 9,270,000.00$ |
| :--- | :--- |
| Enter Amount of the Noise Walls: | $\$ 0.00$ |
| Total Project Cost subtract the amount of the noise walls: | $\$ 9,270,000.00$ |
| Enter amount of any outside, competitive funding: | $\$ 0.00$ |
| Attach documentation of award: |  |
| Points Awarded in Previous Criteria | $\$ 0.00$ |

## Other Attachments

| File Name | Description | File Size |
| :---: | :---: | :---: |
| 001_CSAH 10_West_Proposed.pdf | Proposed Project - Highway 10 Mobility | 264 KB |
| 002_CSAH 10_West_Existing.pdf | Existing Conditions Aerial - Highway 10 Mobility | 201 KB |
| 003_CSAH 10W Existing Photos.pdf | Existing Conditions Photos - Highway 10 Mobility | 363 KB |
| Carver County Resolution 23-22 signed.pdf | Carver County Resolution - Highway 10 Mobility | 368 KB |
| Chaska LOS-CSAH 10- <br> Expansion_Pages from 20220405111140359.pdf | Chaska Letter of Support - Highway 10 Mobility | 500 KB |
| Laketown Township Support Letters for Grant Funding.pdf | Laketown Township Letter of Support Highway 10 Mobility | 58 KB |
| One Page Description Highway 10 Expansion Project.pdf | Project Summary - Highway 10 Mobility | 340 KB |







Highway 10 Corridor Study
Carver County, MN



Splits and Phases: 3: CSAH 11 \& CSAH 10


## 3: CSAH 11 \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1932 |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 35 |
| CO Emissions $(\mathrm{kg})$ | 6.55 |
| NOx Emissions $(\mathrm{kg})$ | 1.27 |
| VOC Emissions $(\mathrm{kg})$ | 1.52 |

## 4: Creek Rd \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 1525 |
| Total Delay / Veh (s/v) | 4 |
| CO Emissions $(\mathrm{kg})$ | 0.74 |
| NOx Emissions $(\mathrm{kg})$ | 0.14 |
| VOC Emissions $(\mathrm{kg})$ | 0.17 |

## 6: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1510 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.85 |
| NOx Emissions $(\mathrm{kg})$ | 0.16 |
| VOC Emissions $(\mathrm{kg})$ | 0.20 |

43: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1370 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.76 |
| NOx Emissions $(\mathrm{kg})$ | 0.15 |
| VOC Emissions $(\mathrm{kg})$ | 0.18 |

Network Totals

| Number of Intersections | 4 |
| :--- | ---: |
| Total Delay / Veh (s/v) | 12 |
| CO Emissions $(\mathrm{kg})$ | 8.90 |
| NOx Emissions $(\mathrm{kg})$ | 1.73 |
| VOC Emissions $(\mathrm{kg})$ | 2.06 |
| Performance Index | 24.5 |



Splits and Phases: 3: CSAH 11 \& CSAH 10


## 3: CSAH 11 \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1932 |
| Total Delay / Veh (s/v) | 18 |
| CO Emissions $(\mathrm{kg})$ | 5.88 |
| NOx Emissions $(\mathrm{kg})$ | 1.14 |
| VOC Emissions $(\mathrm{kg})$ | 1.36 |

## 4: Creek Rd \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 1603 |
| Total Delay / Veh (s/v) | 1 |
| CO Emissions $(\mathrm{kg})$ | 0.69 |
| NOx Emissions $(\mathrm{kg})$ | 0.13 |
| VOC Emissions $(\mathrm{kg})$ | 0.16 |

## 6: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1510 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.84 |
| NOx Emissions $(\mathrm{kg})$ | 0.16 |
| VOC Emissions $(\mathrm{kg})$ | 0.19 |

43: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1442 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.78 |
| NOx Emissions $(\mathrm{kg})$ | 0.15 |
| VOC Emissions $(\mathrm{kg})$ | 0.18 |

Network Totals

| Number of Intersections | 4 |
| :--- | ---: |
| Total Delay / Veh (s/v) | 5 |
| CO Emissions $(\mathrm{kg})$ | 8.20 |
| NOx Emissions $(\mathrm{kg})$ | 1.59 |
| VOC Emissions $(\mathrm{kg})$ | 1.90 |
| Performance Index | 13.4 |



Splits and Phases: 3: CSAH 11 \& CSAH 10


## 3: CSAH 11 \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1932 |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 35 |
| CO Emissions $(\mathrm{kg})$ | 6.55 |
| NOx Emissions $(\mathrm{kg})$ | 1.27 |
| VOC Emissions $(\mathrm{kg})$ | 1.52 |

## 4: Creek Rd \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 1525 |
| Total Delay / Veh (s/v) | 4 |
| CO Emissions $(\mathrm{kg})$ | 0.74 |
| NOx Emissions $(\mathrm{kg})$ | 0.14 |
| VOC Emissions $(\mathrm{kg})$ | 0.17 |

## 6: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1510 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.85 |
| NOx Emissions $(\mathrm{kg})$ | 0.16 |
| VOC Emissions $(\mathrm{kg})$ | 0.20 |

43: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1370 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.76 |
| NOx Emissions $(\mathrm{kg})$ | 0.15 |
| VOC Emissions $(\mathrm{kg})$ | 0.18 |

Network Totals

| Number of Intersections | 4 |
| :--- | ---: |
| Total Delay / Veh (s/v) | 12 |
| CO Emissions $(\mathrm{kg})$ | 8.90 |
| NOx Emissions $(\mathrm{kg})$ | 1.73 |
| VOC Emissions $(\mathrm{kg})$ | 2.06 |
| Performance Index | 24.5 |



Splits and Phases: 3: CSAH 11 \& CSAH 10


## 3: CSAH 11 \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1932 |
| Total Delay / Veh (s/v) | 18 |
| CO Emissions $(\mathrm{kg})$ | 5.88 |
| NOx Emissions $(\mathrm{kg})$ | 1.14 |
| VOC Emissions $(\mathrm{kg})$ | 1.36 |

## 4: Creek Rd \& CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 1603 |
| Total Delay / Veh (s/v) | 1 |
| CO Emissions $(\mathrm{kg})$ | 0.69 |
| NOx Emissions $(\mathrm{kg})$ | 0.13 |
| VOC Emissions $(\mathrm{kg})$ | 0.16 |

## 6: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1510 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.84 |
| NOx Emissions $(\mathrm{kg})$ | 0.16 |
| VOC Emissions $(\mathrm{kg})$ | 0.19 |

43: CSAH 10

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 1442 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.78 |
| NOx Emissions $(\mathrm{kg})$ | 0.15 |
| VOC Emissions $(\mathrm{kg})$ | 0.18 |

Network Totals

| Number of Intersections | 4 |
| :--- | ---: |
| Total Delay / Veh (s/v) | 5 |
| CO Emissions $(\mathrm{kg})$ | 8.20 |
| NOx Emissions $(\mathrm{kg})$ | 1.59 |
| VOC Emissions $(\mathrm{kg})$ | 1.90 |
| Performance Index | 13.4 |

Traffic Safety Benefit-Cost Calculation
Highway Safety Improvement Program (HSIP) Reactive Project

## A. Roadway Description

| Route Begin RP | CSAH 10/11 | District | Metro | County | Carver |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | End RP |  | Miles | 2.250 |
| Location | CSAH 10 (Engler Blvd) between Creek Ln and RR Tracks |  |  |  |  |

## B. Project Description

| Proposed Work Expansion of CS <br> on all legs, sign | Expansion of CSAH 10 at CSAH 11 to 4-lane divided section, turn lane additions/extensions on all legs, signal improvements, RCUT at Creek Rd |  |
| :---: | :---: | :---: |
| Project Cost* $\$ 9,270,000$ | Installation Year | 2026 |
| Project Service Life 20 years | Traffic Growth Factor | 2.0\% |
| * exclude Right of Way from Project Cost |  |  |


| C. Crash Modification Factor |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0.71 | Fatal (K) Crashes | Reference ID 7569 |  |  |
| 0.71 | Serious Injury (A) Crashes | Crash Type All (2-lane to 4-lane divided) |  |  |
| 0.71 | Moderate Injury (B) Crashes |  |  |  |
| 0.71 | Possible Injury (C) Crashes |  |  |  |
| 0.71 | Property Damage Only Crashes |  |  | www.CMFclearinghouse.org |


| D. Crash Modification Factor (optional second CMF) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0.42 | Fatal (K) Crashes | Reference ID 10384 |  |  |
| 0.42 | Serious Injury (A) Crashes |  |  |  |
| 0.42 | Moderate Injury (B) Crashes | Crash Type | All (RCUT) |  |
| 0.42 | Possible Injury (C) Crashes |  |  |  |
| 0.42 | Property Damage Only Crashes |  |  | www.CMFclearinghouse.org |


F. Analysis Assumptions

| Crash Severity Crash Cost |  | Link: mndot.gov | planning/program/appendix_a.html |
| :---: | :---: | :---: | :---: |
| K crashes | \$1,500,000 |  |  |
| A crashes | \$750,000 | Real Discount Rate <br> Traffic Growth Rate <br> Project Service Life |  |
| B crashes | \$230,000 |  | 0.7\% |
| C crashes | \$120,000 |  | 2.0\% |
| PDO crashes | \$13,000 |  | 20 years |

G. Annual Benefit

| Crash Severity | Crash Reduction | Annual Reduction | Annual Benefit |
| :--- | :---: | :---: | :---: |
| K crashes | 0.00 | 0.00 | $\$ 0$ |
| A crashes | 0.87 | 0.29 | $\$ 217,500$ |
| B crashes | 1.16 | 0.39 | $\$ 88,933$ |
| C crashes | 1.45 | 0.48 | $\$ 58,000$ |
| PDO crashes | 5.22 | 1.74 | $\$ 22,620$ |


| H. Amortized Benefit |  |  |  |
| :---: | :---: | :---: | :---: |
| Year | Crash Benefits | Present Value |  |
| 2026 | \$387,053 | \$387,053 | Total = \$8,768,187 |
| 2027 | \$394,794 | \$392,050 |  |
| 2028 | \$402,690 | \$397,111 |  |
| 2029 | \$410,744 | \$402,238 |  |
| 2030 | \$418,959 | \$407,431 |  |
| 2031 | \$427,338 | \$412,690 |  |
| 2032 | \$435,885 | \$418,018 |  |
| 2033 | \$444,603 | \$423,414 |  |
| 2034 | \$453,495 | \$428,881 |  |
| 2035 | \$462,565 | \$434,417 |  |
| 2036 | \$471,816 | \$440,025 |  |
| 2037 | \$481,252 | \$445,706 |  |
| 2038 | \$490,877 | \$451,460 |  |
| 2039 | \$500,695 | \$457,288 |  |
| 2040 | \$510,709 | \$463,192 |  |
| 2041 | \$520,923 | \$469,171 |  |
| 2042 | \$531,341 | \$475,228 |  |
| 2043 | \$541,968 | \$481,363 |  |
| 2044 | \$552,807 | \$487,577 |  |
| 2045 | \$563,864 | \$493,872 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |
| 0 | \$0 | \$0 |  |

## CMF / CRF Details

CMF ID: 7569

Convert 2 lane roadway to 4 lane divided roadway
Description: Conversion of urban and rural two-lane roadways to four-lane divided roadways

## Prior Condition: 2 lane roadway

## Category: Roadway

Study: Evaluation of the Safety Effectiveness of the Conversion of Two-Lane Roadways to Four-Lane Divided Roadways: Bayesian vs. Empirical Bayes, Ahmed et al., 2015

| Crash Modification Factor (CMF) |  |
| :---: | :--- |
| Value: | 0.712 |
| Adjusted Standard Error: |  |
| Unadjusted Standard Error: | 0.076 |

Crash Reduction Factor (CRF)

Value:
28.79 (This value indicates a decrease in crashes)

| Adjusted Standard Error: |  |
| :---: | :---: |
| Unadjusted Standard Error: | 7.65 |
| Applicability |  |
| Crash Type: | All |
| Crash Severity: | All |
| Roadway Types: | Not specified |
| Number of Lanes: | 2 |
| Road Division Type: | Undivided |
| Speed Limit: |  |
| Area Type: | Rural |
| Traffic Volume: |  |
| Time of Day: | All |
| If countermeasure is intersection-based |  |
| Intersection Type: |  |
| Intersection Geometry: |  |
| Traffic Control: |  |
| Major Road Traffic Volume: |  |
| Minor Road Traffic Volume: |  |


| Development Details |  |
| :---: | :---: |
| Date Range of Data Used: | 2002 to 2012 |
| Municipality: |  |


| State: | FL |  |
| :---: | :--- | :--- |
| Country: | USA |  |
| Type of Methodology Used: | Before/after using empirical Bayes or full Bayes |  |
| Sample Size Used: |  |  |
|  |  |  |

## Other Details

| Included in Highway Safety |
| ---: | :--- |
| Manual? |$\quad$ No

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.

## CMF / CRF Details

CMF ID: 10384

Convert intersection to restricted crossing U-turn (RCUT) intersection
Description: The RCUT, also referred to as the superstreet intersection or J-turn intersection. The conversion is for either signalized or stop-controlled.

Prior Condition: Both signalized and stop-controlled intersections
Category: Intersection geometry
Study: Investigating Safety Impact of Center Line Rumble Strips, Lane Conversion, Roundabout and J-Turn Features on Louisiana Highways, Sun and Rahman, 2019

| Crash Modification Factor (CMF) |  |
| :---: | :--- |
| Value: | 0.42 |
| Adjusted Standard Error: |  |
| Unadjusted Standard Error: | 0.163 |

Crash Reduction Factor (CRF)

Value
58 (This value indicates a decrease in crashes)

## Unadjusted Standard Error:

16.3

## Applicability

| Crash Type: | All |
| :---: | :---: |
| Crash Severity: | All |
| Roadway Types: | Not specified |
| Number of Lanes: | 4-6 |
| Road Division Type: | Divided by Median |
| Speed Limit: | $>=55 \mathrm{mph}$ |
| Area Type: | All |
| Traffic Volume: |  |
| Time of Day: | Not specified |
| If countermeasure is intersection-based |  |
| Intersection Type: | Roadway/roadway (not interchange related) |
| Intersection Geometry: | No values chosen. |
| Traffic Control: |  |
| Major Road Traffic Volume: | 59833 to 59833 Annual Average Daily Traffic (AADT) |
| Minor Road Traffic Volume: |  |

## Development Details

| Date Range of Data Used: | 2008 to 2016 |  |
| ---: | :--- | :--- |
| Municipality: |  |  |
| State: | LA |  |
|  |  |  |
|  |  |  |


| Country: | USA |
| :---: | :---: |
| Type of Methodology Used: | 2 |
| Sample Size Used: |  |
|  |  |

## Other Details

## Included in Highway Safety Manual?

## Date Added to Clearinghouse:

## Comments:

No

Jun-01-2020

CMF partial RCUT with 2 minor streets. Crashes for RCUT section (including U-turns). SPF used for this analysis came from the 2010 HSM

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.

| Route System | Route Number | Measure | Co | City | Incident Number | Date | Time | Day of Week | Basic Type | Num <br> Veh | Sev |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04-CSAH | 10 | 19.907 | 10 |  | 00847515 | 10/20/20 | 1220 | TUE | Head On | 2 | C |
| 04-CSAH | 10 | 20.089 | 10 |  | 00743087 | 08/27/19 | 0738 | TUE | Rear End | 2 | C |
| 04-CSAH | 10 | 20.157 | 10 |  | 00980862 | 12/16/21 | 0715 | THU | SVROR | 1 | N |
| O4-CSAH | 10 | 20.169 | 10 |  | 00842739 | 09/25/20 | 1004 | FRI | Rear End | 2 | N |
| 04-CSAH | 10 | 20.195 | 10 |  | 00968213 | 10/21/21 | 0700 | THU | Rear End | 2 | N |
| O4-CSAH | 10 | 20.196 | 10 |  | 00776605 | 01/02/20 | 0745 | THU | Rear End | 2 | N |
| 04-CSAH | 10 | 20.199 | 10 |  | 00766341 | 11/29/19 | 1923 | FRI | Rear End | 2 | B |
| O4-CSAH | 10 | 20.201 | 10 |  | 00745089 | 09/05/19 | 1936 | THU | Angle | 2 | B |
| 04-CSAH | 10 | 20.202 | 10 |  | 00758604 | 10/31/19 | 1858 | THU | Left Turn | 2 | B |
| 04-CSAH | 10 | 20.202 | 10 |  | 00983738 | 12/27/21 | 1320 | MON | Rear End | 2 | C |
| 04-CSAH | 10 | 20.203 | 10 |  | 00772898 | 12/18/19 | 1655 | WED | Rear End | 2 | N |
| 04-CSAH | 10 | 20.430 | 10 |  | 00976836 | 12/01/21 | 2024 | WED | Other | 1 | N |
| 04-CSAH | 10 | 20.463 | 10 |  | 00730042 | 06/28/19 | 1230 | FRI | Rear End | 2 | N |
| 04-CSAH | 10 | 20.471 | 10 |  | 00774916 | 12/28/19 | 0825 | SAT | SVROR | 1 | N |
| 04-CSAH | 10 | 20.614 | 10 |  | 00929635 | 07/21/21 | 1831 | WED | Angle | 2 | A |
| 04-CSAH | 10 | 20.669 | 10 |  | 00973071 | 11/12/21 | 1920 | FRI | Other | 1 | N |
| 04-CSAH | 10 | 20.760 | 10 | Chaska | 00895792 | 03/15/21 | 1400 | MON | SSS | 2 | N |
| 04-CSAH | 10 | 20.986 | 10 | Chaska | 00677819 | 01/22/19 | 0605 | TUE | Other | 1 | N |
| 04-CSAH | 10 | 21.027 | 10 | Chaska | 00976406 | 11/30/21 | 0630 | TUE | Other | 1 | N |
| 04-CSAH | 11 | 8.661 | 10 |  | 00811573 | 05/25/20 | 1409 | MON | Head On | 2 | C |
| O4-CSAH | 11 | 8.664 | 10 |  | 00813774 | 06/10/20 | 1158 | WED | Angle | 2 | C |
| O4-CSAH | 11 | 8.665 | 10 |  | 00940022 | 09/08/21 | 1732 | WED | Other | 2 | B |
| 04-CSAH | 11 | 8.709 | 10 |  | 00729993 | 06/28/19 | 1021 | FRI | Angle | 2 | N |
| 08-TWNS | 509 | 0.003 | 10 |  | 00868883 | 12/19/20 | 0558 | SAT | SVROR | 1 | N |
| 08-TWNS | 509 | 0.004 | 10 |  | 00751844 | 10/03/19 | 0755 | THU | Angle | 2 | N |

## Selection Filter:

WORK AREA: County('659455') - FILTER: Year('2019','2020','2021') - SPATIAL FILTER APPLIED

Analyst:
Notes:
Jacob Bongard


April 11, 2022
Elaine Koutsoukos
TAB Coordinator
Metropolitan Council
390 Robert St. N
St. Paul, MN 55101
SUBJECT: Highway 10 Mobility and Access Project Risk Assessment Layout Approval Letter
Dear Ms. Koutsoukos:
This letter is to confirm the County's agreement with and approval to date of the attached layout for the Highway 10 Mobility and Access Project. The project has undergone substantial study and coordination with project partners. The County led and partnered on the development of the layout with Laketown Township, the City of Victoria, and the City of Chaska through the Highway 10 Corridor Study planning process and is aware of the details specified in the application attachment.

The City of Chaska and Laketown Township provided letters of support for the project. The County is committed to working with project partners to complete the final layout approval engineering process for the Highway 10 Mobility and Access Project in the coming months.

Sincerely,


Lyndon Robjent, P.E.
Public Works Director/County Engineer

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mikelo

CSAH 10 at CSAH 11 Intersection Existing Conditions - Looking west


## CSAH 10 at CSAH 11 Intersection Existing Conditions - Looking north





## CITY of CHASKA <br> ONE CITY HALL PLAZA / CHASKA MN 55318-1962

April 5, 2022

Lyndon Robjent, P.E.
Public Works Director, County Engineer
Carver County Public Works
11360 Highway 212, Suite 1, Cologne, MN 55322
Dear Mr. Robjent,
The City of Chaska is pleased to support Carver County's application for the Highway 10 Mobility and Access Corridor Improvement under the Roadway Strategic Capacity category of the Metropolitan Council's 2022 Regional Solicitation for federal transportation funding.

The proposed project will reconstruct and expand County State Aid Highway (CSAH) 10 from west of CSAH 11 to W Creek Ln. with intersection safety and mobility improvements and bicycle and pedestrian improvements throughout the corridor. The project will provide substantial safety and capacity benefits by expanding the existing 2-lane rural highway section to a 4 -lane section, implementing access management strategies, and constructing a regional trail facility to serve the bicycle and pedestrian users along the corridor.

The City of Chaska partnered with Carver County, the Minnesota Department of Transportation (MnDOT), and the City of Victoria, on the Highway 10 Corridor Study to identify coordinated roadway improvements to address significant existing transportation mobility, safety, and access issues on the CSAH 10 (Engler Blvd.) corridor through Chaska. The Highway 10 Corridor Study included a robust technical analysis, concept development, concept evaluation, and a diversified and broad public engagement strategy to identify and build consensus for short and long-term roadway concepts and recommendations. The proposed project is consistent with the study, which was adopted by the City and County in 2021.

The City of Chaska supports the County's application for the Highway 10 Mobility and Access Corridor Improvement to the Metropolitan Council's 2022 Regional Solicitation funding program and acknowledges potential City cost-share in the project.

Sincerely,


Mark Windschitl, Mayor
City of Chaska

Township of Laketown<br>9530 Laketown Road<br>Chaska, MN 55318<br>Phone: 952-442-5278<br>Laketowntownship@gmail.com

March 282022
Lyndon Robjent, P.E.
Public Works Director, County Engineer
Carver County Public Works
11360 Highway 212, Suite 1, Cologne, MN 55322
Dear Mr. Robjent,
Laketown Township is pleased to support Carver County's application for the Highway 10 Mobility and Access Corridor Improvement under the Roadway Strategic Capacity category of the Metropolitan Council's 2022 Regional Solicitation for federal transportation funding.

The proposed project will reconstruct and expand County State Aid Highway (CSAH) 10 from west of CSAH 11 to W Creek Ln. with intersection safety and mobility improvements and bicycle and pedestrian improvements throughout the corridor. The project will provide substantial safety and capacity benefits by expanding the existing 2-lane rural highway section to a 4-lane section, implementing access management strategies, and constructing a regional trail facility to serve the bicycle and pedestrian users along the corridor.

Laketown Township participated on the Carver County-led Highway 10 Corridor Study to identify coordinated roadway improvements to address significant existing transportation mobility, safety, and access issues on the CSAH 10 (Engler Blvd.) corridor through the Township. The Highway 10 Corridor Study included a robust technical analysis, concept development, concept evaluation, and a diversified and broad public engagement strategy to identify and build consensus for short and long-term roadway concepts and recommendations. The proposed project is consistent with the study, which was adopted by the County in 2021.

Laketown Township supports the County's application for the Highway 10 Mobility and Access Corridor Improvement to the Metropolitan Council's 2022 Regional Solicitation funding program.

Sincerely,


Signature
Pete Parris
Chairman

## Primary Contact:

Angie Stenson
Sr. Transportation Planner
612.360.7422
astenson@co.carver.mn.us

Application Category:
Roadways including Multimodal Elements

- Strategic Capacity

Corridor Fast Facts:

- 2040 growth scenarios show 40,000 veh/day on Highway 10
- Project adds over 1.5 miles of regional trail
- Improvements increase average arterial travel speeds by 5 mph significantly reducing congestion during peak periods


## Project Description

The Highway 10 Mobility and Access project will reconstruct Highway 10 between Chaska Creek and stopping just east of the Twin Cities Western Rail at-grade crossing. Proposed improvements include the expansion of Highway 10, and legs of Highway 11, from a twolane undivided rural section to a four-lane divided urban section, and multi-use trail facilities throughout where none exist today. The intersection of Highway 10 and Creek Road will be reconstructed as a Reduced Conflict Intersection (RCI). The intersection of Highways 10 and 11 will be reconstructed with added turn lanes and include a new traffic signal and improved pedestrian facilities.

Highways 10 and 11 are classified as an A-Minor Arterial connecting the cities of Chaska, Victoria, Waconia and Carver, as well as providing access to US 212. Highway 10 is also one of only three major thoroughfares running east-west through Carver County. Highway 11 is a vital north-south regional link between the cities of Victoria and Carver to Highway 10, Trunk Highway 5 and to US 212. Due to significant residential growth in these communities in recent years, this project need is identified in multiple planning documents and studies as a priority improvement to support local and regional mobility as development continues and the population of Carver County continues to grow. Creek Road, intersecting with the project near the east extents, serves as an alternate route to downtown Chaska and has seen notable industrial development in the last year, causing a significant increase in freight traffic.


Requested Award Amount:
\$7,416,000
Local Match: \$1,854,000
Project Total: \$9,270,000

Match \$ Sources:

- Carver County
- City of Chaska
- City of Victoria



## Project Benefits

This segment of Highway 10, and its intersection with Highway 11, are currently overcapacity and experiencing delays in the peak hours. Forecasted development and traffic growth, not only in the immediate project area but also in the surrounding cities, will only exacerbate the operations and safety issues experienced today.

Proposed improvements will offer immediate relief for existing and long-term capacity concerns for regional growth. Proposed multimodal trail facilities will fill an existing gap in a Tier 2 RBTN alignment along Highway 10 and connect into an existing regional Tier 2 RBTN alignment along Highway 11. This will providing active transportation options for a quickly developing regional area and the adjacent future commercial growth parcels surrounding the Highway 10 and 11 intersection.

## Part of a Bigger Picture

The Highway 10 Corridor Study identified this segment as the crucial area for near-term improvements to move the increasing traffic volumes through the region. The expansion is identified as a key improvement in multiple planning documents and is the first step in the ultimate vision of Highway 10 become the premier east-west multi-modal artery in Carver County responding to increased development pressure throughout the area.


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