Application

01967-2014 Roadway Expansion
02297 - CSAH 116 (Bunker Lake Boulevard) between Jefferson Street and Highway 65 in the City of Ham Lake
Regional Solicitation - Roadways Including Multimodal Elements
Status: Submitted
Original Submitted Date:
11/26/2014 12:32 PM
Last Submitted Date:
01/01/2015 8:21 PM

## Primary Contact

| Name:* |  | Jack | L |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Salutation | First Name | Middle Name | Last Name |
| Title: | Multimodal Planning Manager |  |  |  |
| Department: | Anoka County Transportation Division |  |  |  |
| Email: | jack.forslund@co.anoka.mn.us |  |  |  |
| Address: | 1440 Bunker Lake Boulevard NW |  |  |  |
| * | Andover | Min |  | 55304-4005 |
|  | City | State |  | Postal Code/Zip |
| Phone:* | 763-862-4230 |  |  |  |
|  | Phone |  | Ext. |  |
| Fax: | 763-862-4 |  |  |  |
| What Grant Programs are you most interested in? | Regional Elements | ation - Ro | ys Includin | Multimodal |

## Organization Information

Name:
ANOKA COUNTY
Jurisdictional Agency (if different):

| Organization Type: | County Government |
| :--- | :--- |
| Organization Website: |  |
| Address: | 1440 BUNKER LAKE BLVD |


| * | ANDOVER | Minnesota <br> State/Province |
| :--- | :--- | :--- |
| County: | City |  |
| Phone:* | Anoka |  |
| Fax: | $763-862-4200$ | Ext. |

## Project Information

## Project Name

Primary County where the Project is Located

CSAH 116 (Bunker Lake Boulevard) between Jefferson Street and Highway 65 in the City of Ham Lake

Anoka

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

The proposed project expands County State Aid Highway (CSAH 116), also known as Bunker Lake Boulevard, to four lanes between Jefferson Street and Highway 65 in the City of Ham Lake (see Figure 1). This expansion will complete the final missing section of four-lane roadway on CSAH 116 in this area, including its connection to a principal arterial, Highway 65. More specifically, this 1.0-mile section of roadway is the last segment of two-lane, undivided, rural roadway in the 11.1 miles from CR 57 (Sunfish Lake Blvd) to CR 52 (Radisson Rd) that has not already been constructed or scheduled for construction to a four-lane roadway.

The current roadway is primarily a two-lane, undivided, rural roadway (see Figure 3). The rural design, curves, and lack of channelization has resulted in a number of angle and run-off the road crashes.

The proposed project expands the roadway from an undivided rural two-lane section to a four-lane divided urban facility with turn lanes, raised medians, and paved shoulders. A separated pedestrian/bicycle path, which is an extension of the Central Anoka County Regional Trail (see Figures 2 and 4), will be added on the north side of CSAH 116. Access management, including restricting turning movements at multiple intersections, will also be implemented along the corridor.

The purpose of the proposed project is to address safety, mobility, traffic operations, and multimodal transportation service on this important east-west A Minor Arterial Reliever roadway. CSAH 116 is one of the few continuous east-west routes in Anoka County. It originates in the City of Ramsey at CSAH 83 (Armstrong Blvd) and continues eastward for
16.1 miles CSAH 17 (Lexington Avenue) in the City of Ham Lake. CSAH 116 acts as a reliever for US 10, wherein the project will improve the efficiency of CSAH 116 as a regional route in relief of US 10. It also provides one of the few Rum River bridge crossings in the area. Given the enormously high cost of expanding US 10, particularly in Ramsey and Anoka, investment in this reliever route is a cost-effective investment to ease congestion.

The project beneficiaries will include local and regional residents, businesses, pedestrians, and bicyclists that use the roadway corridor. It will also provides a four-lane connection between Highway 65 and Bunker Hills Regional Park (617,000 visitors in 2012) and a regional big-box shopping area in Andover called Andover Station.

Include location, road name/functional class, type of improvement, etc.
Project Length (Miles)
1.0

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.

2008 City of Ham Lake Comprehensive Plan (pages 6-19, 6-21, 8-3 discuss improvements to CSAH 116 and the Central Anoka County Regional Trail).
Connection to Local Planning
2030 Anoka County Transportation Plan (pages 3-
23, 7-15 discuss expansion of the Central Anoka County Regional Trail).

## 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
\$6,000,000.00

| Match Amount | \$1,500,000.00 |
| :---: | :---: |
| Minimum of 20\% of project total |  |
| Project Total | \$7,500,000.00 |
| Match Percentage | 20.0\% |
| Minimum of 20\% |  |
| Compute the match percentage by dividing the match amount by the project total |  |
| Source of Match Funds | Anoka County Hwy Fund |
| Preferred Program Year |  |
| Select one: | 2018 |
| MnDOT State Aid Project Information: Roadway Projects |  |
| County, City, or Lead Agency | Anoka County |
| Functional Class of Road | A Minor Reliever Arterial |
| Road System | CSAH |
| TH, CSAH, MSAS, CO. RD., TWP. RD., CITY STREET |  |
| Name of Road | CSAH 116 (Bunker Lake Blvd) |
| Example; 1st ST., MAIN AVE |  |
| Zip Code where Majority of Work is Being Performed | 55304 |
| (Approximate) Begin Construction Date | 03/01/2018 |
| (Approximate) End Construction Date | 11/30/2018 |
| LOCATION |  |
| From: <br> (Intersection or Address) | CSAH 116 and Jefferson St. |
| Do not include legal description; Include name of roadway if majority of facility runs adjacent to a single corridor. |  |
| To: <br> (Intersection or Address) | CSAH 116 and TH 65 |
| Type of Work | Grade, Paved Surface, Multiuse Trails, Storm Sewer, Traffic Signal, ADA Ramps, Sidewalk, Curb and Gutter, Raised Median, Landscaping |
| Examples: grading, aggregate base, bituminous base, bituminous surface, sidewalk, signals, lighting, guardrail, bicycle path, ped ramps, bridge, Park \& Ride, etc.) |  |
| Old Bridge/Culvert? | No |
| New Bridge/Culvert? | No |
| Structure is Over/Under <br> (Bridge or culvert name): |  |


| Specific Roadway Elements |  |
| :--- | ---: |
| CONSTRUCTION PROJECT ELEMENTS/COST | Cost |
| ESTIMATES | $\$ 350,000.00$ |
| Mobilization (approx. 5\% of total cost) | $\$ 350,000.00$ |
| Removals (approx. 5\% of total cost) | $\$ 1,400,000.00$ |
| Roadway (grading, borrow, etc.) | $\$ 2,130,000.00$ |
| Roadway (aggregates and paving) | $\$ 50,000.00$ |
| Subgrade Correction (muck) | $\$ 1,750,000.00$ |
| Storm Sewer | $\$ 50,000.00$ |
| Ponds | $\$ 580,000.00$ |
| Concrete Items (curb \& gutter, sidewalks, median barriers) | $\$ 100,000.00$ |
| Traffic Control | $\$ 70,000.00$ |
| Striping | $\$ 70,000.00$ |
| Signing | $\$ 0.00$ |
| Lighting | $\$ 100,000.00$ |
| Turf - Erosion \& Landscaping | $\$ 0.00$ |
| Bridge | $\$ 0.00$ |
| Retaining Walls | $\$ 0.00$ |
| Noise Wall | $\$ 300,000.00$ |
| Traffic Signals | $\$ 0.00$ |
| Wetland Mitigation | $\$ 7,400,000.00$ |
| Other Natural and Cultural Resource Protection | $\$ 00,000.00$ |
| RR Crossing | $\$ 0.00$ |
| Roadway Contingencies | $\$ 0.00$ |
| Other Roadway Elements | $\$ 0 t a l s$ |

## Specific Bicycle and Pedestrian Elements

## CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES <br> Cost

Path/Trail Construction
\$60,000.00
Sidewalk Construction \$0.00
On-Street Bicycle Facility Construction \$0.00
Right-of-Way \$0.00
Pedestrian Curb Ramps (ADA) \$40,000.00
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 ..... \$100,000.00
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 ..... $\$ 0.00$
Transit and TDM Contingencies ..... $\$ 0.00$
Other Transit and TDM Elements ..... $\$ 0.00$
Totals ..... $\$ 0.00$
Transit Operating Costs
OPERATING COSTS ..... Cost
Transit Operating Costs ..... $\$ 0.00$
Totals ..... $\$ 0.00$

## Totals

Total Cost
$\$ 7,500,000.00$
Construction Cost Total
\$7,500,000.00
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.

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

## 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. Yes
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. Yes

## 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
City of Ham Lake Resolution of Support.pdf

CSAH 116 Layout for Reg Sol AnCOsm.pdf

Figures.pdf

Description File Size

City of Ham Lake Resolution of Support 160 KB

| Map of Proposed Improvements/Project |  |
| :--- | :--- |
| Layout |  | Layout

Figures showing the following: - Figure 1:
Project extent and context - Figure 2:
Project extent and context with trail
system - Figure 3: Existing rural section
5.4 MB
within project segment - Figure 4:
Existing trail east of project limits

## Reliever: Freeway Facility or

Facility being relieved
Number of hours per day volume exceeds capacity (based on the Congestion Report)

## Reliever: Non-Freeway Facility or

Facility being relieved
Number of hours per day volume exceeds capacity (based on the table below)

## Non-Freeway Facility Volume/Capacity Table

| Hour | NB/EB Volume | SB/WB Volume | Capacity | Volume exceeds capacity |
| :---: | :---: | :---: | :---: | :---: |
| 12:00am-1:00am |  |  | 0 |  |
| 1:00am-2:00am |  |  | 0 |  |
| 2:00am-3:00am |  |  | 0 |  |
| 3:00am-4:00am |  |  | 0 |  |
| 4:00am-5:00am |  |  | 0 |  |
| 5:00am-6:00am |  |  | 0 |  |
| 6:00am-7:00am |  |  | 0 |  |
| 7:00am-8:00am |  |  | 0 |  |
| 8:00am-9:00am |  |  | 0 |  |
| 9:00am-10:00am |  |  | 0 |  |
| 10:00am-11:00am |  |  | 0 |  |


| $11: 00 \mathrm{am}-12: 00 \mathrm{pm}$ | 0 |
| :--- | :--- |
| $12: 00 \mathrm{pm}-1: 00 \mathrm{pm}$ | 0 |
| $1: 00 \mathrm{pm}-2: 00 \mathrm{pm}$ | 0 |
| $2: 00 \mathrm{pm}-3: 00 \mathrm{pm}$ | 0 |
| $3: 00 \mathrm{pm}-4: 00 \mathrm{pm}$ | 0 |
| $4: 00 \mathrm{pm}-5: 00 \mathrm{pm}$ | 0 |
| $5: 00 \mathrm{pm}-6: 00 \mathrm{pm}$ | 0 |
| $6: 00 \mathrm{pm}-7: 00 \mathrm{pm}$ | 0 |
| $7: 00 \mathrm{pm}-8: 00 \mathrm{pm}$ | 0 |
| 8:00pm -9:00pm | 0 |
| $9: 00 \mathrm{pm}-10: 00 \mathrm{pm}$ | 0 |
| $10: 00 \mathrm{pm}-11: 00 \mathrm{pm}$ | 0 |
| $11: 00 \mathrm{pm}-12: 00 \mathrm{am}$ | 0 |

## Expander/Augmentor/Non-Freeway Principal Arterial

Select one:
Area 6.333

Project Length
1.0

Average Distance
6.333

Upload Map
Roadway Area Definition.pdf

## Measure B: Current Heavy Commercial Traffic

| Location | CSAH 116 (Bunker Lake Blvd.), east of Pierce St. |
| :--- | :--- |
| Current daily heavy commercial traffic volume | 3000.0 |

## 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
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 Yes city plan

The area around the intersection of CSAH 116 and Highway 65 is cited as an important local activity area in the 2008 Ham Lake Comprehensive Plan (page 5-6) and is directly connected to the east end of the project.

Upload Map
economy.pdf

## Measure A: Current Daily Person Throughput

Location
Current AADT Volume
Existing Transit Routes on the Project

CSAH 116 between Jefferson St. and Highway 65.
11369.0

865

## Response: Current Daily Person Throughput

Average Annual Daily Transit Ridership 0
Current Daily Person Throughput
14780.0

## Measure B: $\mathbf{2 0 3 0}$ Forecast ADT

Use Metropolitan Council model to determine forecast (2030) ADT No volume

METC Staff - Forecast (2030) ADT volume
0

OR
Approved county or city travel demand model to determine forecast (2030) ADT volume

Yes

Forecast (2030) ADT volume
13100.0

## 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 Yes includes children, people with disabilities, or the elderly.

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

Upload Map

The project is located in Census Tract 502.15, with 14.5 percent of the population elderly (over the age of 65 ) as recorded by the 2012 Census. The census tract greatly exceeds the Anoka County average of 9.88 percent and the seven County metro average of 10.85 percent.

There is currently no trail or sidewalk in the project area. The extension of the Central Anoka County Regional Trail will benefit the elderly by increasing walking and bicycling opportunities and will provide a connection to Bunker Hills Regional Park, which includes several recreational opportunities.

The addition of through lanes, turn lanes, and a center median will benefit the elderly through improved mobility to the Fairview Clinic and Blaine Medical Center, and allowing for safer vehicular turning movements along CSAH 116 in the project area.

Low-income populations without a vehicle will benefit from a regional connection to expanding job opportunities via the extension of the existing trail system. One of these businesses, DSTI (recognized by Inc. Magazine as one of the fastest growing manufacturing businesses in 2010), is a located just west of the project area. Children in the area will have non-motorized access to Bunker Hills Regional Park (617,000 visitors in 2012).

## Measure B: Affordable Housing

City/Township
Segment Length (Miles)
City of Ham Lake
Poverty.pdf

## Total Project Length

Total Project Length

Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

| City/Township | Segment | Total Length | Score | Segment | Housing Score <br> Length (Miles) |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | (Miles) |  | Length/Total | Multiplied by |  |
| Segmenth | percent |  |  |  |  |


| 0 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- |

## Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

Total Project Length (Miles)
1.0

Total Housing Score
0

## Measure A: Year of Roadway Construction

Year of Original

| Roadway Construction | Roadway Segment |  |  |
| :---: | :---: | :---: | :---: |
| or Most Recent | Length (Miles) | Calculation | Calculation 2 |

Reconstruction

| 1999.0 | 1.0 | 1999.0 | 1999.0 |
| ---: | ---: | ---: | ---: |
|  | 1 | 1999 | 1999 |

## Average Construction Year

Weighted Year
1999.0

Total Segment Length (Miles)
Total Segment Length

## Measure A: Cost Effectiveness of Vehicle Delay Reduction

Total Project Cost from Cost Sheet
Total Peak Hour Vehicle Delay Without The Project
Total Peak Hour Vehicle Delay With The Project
Total Peak Hour Vehicle Delay Reduced by Project
\$7,500,000.00
227800.0
104788.0
123012.0

Cost Effectiveness
Synchro or HCM Reports
\$60.97
CSAH 116 and TH 65 PM HCM.pdf

## Measure B: Cost Effectiveness of Emissions Reduction

| Total Project Cost from Cost Sheet | $\$ 7,500,000.00$ |
| :--- | :--- |
| Total Peak Hour Kilograms Reduced by Project | 2.72 |
| Cost Effectiveness | $\$ 2,757,352.94$ |
| Synchro or HCM Reports | CSAH 116 and TH 65 PM HCM.pdf |

## Measure A: Benefit/Cost of Crash Reduction

Project Benefit/Cost Ratio 0.11

Worksheet Attachment
CSAH 116 Completed Analysis.pdf

## Measure A: Transit Connections

Existing Routes Directly Connected to the Project 865
Planned Transitways directly connected to the project (alignment N/A and mode determined and identified in the 2030 TPP)

Upload Map transit.pdf

## Response

Met Council Staff Data Entry Only

| Route Ridership | 114000.0 |
| :--- | :--- |
| Transitway Ridership | 0 |

## Measure B: Bicycle and Pedestrian Connections

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

The Central Anoka County Regional Trail, an existing 10 -foot wide pedestrian/bike trail, is located along CSAH 116 east of Highway 65 (see Figure 2). West of the project limits the trail will be extended to Jefferson St. as part of a current project to be completed in 2016. The trail is identified in the 2030 Anoka County Transportation Plan and in the 2008 City of Ham Lake Comprehensive Plan to continue through the project area, connecting the existing east and west trail segments.

One of the policies under Goal 5 of the 2008 City of Andover Comprehensive Plan identifies CSAH 116 between Hanson Blvd and Crosstown Blvd as an important regional commercial area called Andover Stationthis area will have direct access from the project limits via an existing trail along CSAH 116 (see Figure 2). This pedestrian-friendly area has a mix of land uses including commercial, residential, recreational, and industrial (DSTI, recognized by Inc. Magazine as one of the fastest growing manufacturers in the country). The project will extend trail connections to Bunker Hills Regional Park (see Figure 2), including seven miles of trails, a major water park, and other recreational opportunities involving high levels of pedestrian traffic.

## Measure C: Multimodal Facilities

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

There are currently no accommodations for modes other than vehicles. The project will greatly improve the mobility and safety of all modes.

The project will continue the planned extension of the Central Anoka County Regional Trail, a ten-foot wide trail along CSAH 116, from Jefferson St. to Highway 65 to accommodate bicyclists and pedestrians. Trail safety will be addressed by the following:

Separation of the trail from CSAH 116 by a landscaped area.
Improvement of crossings at the Highway 65 intersection to connect to the existing trail east of Highway 65 (a four-lane, 60 mph roadway with 41,000 AADT in 2012).

The 865 Express Bus Route follows Highway 65 at the east end of the project. Transit is not a part of the projectthere are no existing or planned stops that provide simple connections (the nearest stop, a park and ride, is located two miles south). However, the expansion of the roadway will reduce congestion and increase mobility to the park and ride.

The lack of transit service along CSAH 116 is consistent with the project areas designation as Transit Market Area IV by the Metropolitan Council (i.e. an area that only supports dial-a-ride and peak period express/commuter service).

## Transit Projects Not Requiring Construction

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
0%
2)Layout or Preliminary Plan (5 Percent of Points)
Layout or Preliminary Plan completed
100%
Layout or Preliminary Plan started Yes
50%
Layout or Preliminary Plan has not been started
0%
Anticipated date or date of completion
                                    01/01/2016
3)Environmental Documentation (10 Percent of Points)
EIS
EA Yes
PM
Document Status:
Document approved (include copy of signed cover sheet)
    100%
Document submitted to State Aid for review
Document in progress; environmental impacts identified Yes
50%
Document not started
0%
Anticipated date or date of completion/approval
06/01/2015
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
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; $6 f$ 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 $4 f$ resources present within the project area, but no known adverse effects

80\%
Adverse effects (land conversion) to Section 4f/6f resources likely

Yes

30\%
Unknown impacts to Section 4f/6f resources in the project area
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\%

Anticipated date or date of acquisition
7)Railroad Involvement (25 Percent of Points)

No railroad involvement on project
Yes
100\%

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


November 17, 2014
Douglas W. Fischer, P.E.
County Engineer
Anoka County Highway Department
1440 Bunker lake Blvd NW
Andover, MN 5304
RE: REGIONAL FUNDING SOLICITATION - CSAH 116

## Dear Doug,

The City of Ham Lake is writing this letter in regards to this year's federal funding solicitation. We understand that Anoka County would like to submit an application for the expansion and reconstruction of CSAH 116 in our community.

This letter is in support of the project and for Anoka County to pursue federal funding. The City of Ham Lake and Anoka County continue to coordinate their efforts in improving the area's transportation issues. We feel this project will help address safety and mobility issues occurring in the area.

If you have any further questions in regard to the project on the city's end, please feel free to contact us.

Sincerely,


City of Ham Lake
Mayor

## RESOLUTION NO. 14-52 <br> CITY OF HAM LAKE MINNESOTA SUPPORTING ANOKA COUNTY FEDERAL FUNDING APPLICATION FOR CSAH 116

WHEREAS, CSAH 116 is an "A" minor arterial reliever route that provides an important eastwest transportation connection in Anoka County, and,

WHEREAS, traffic volumes on CSAH 116 have been increasing over the past decade and are expected to continue to increase in the future as the cities in and around the roadway continue to grow, and,

WHEREAS, existing and future traffic volumes are such that safety is a concern at intersections and along some segments of the corridor, and,

WHEREAS, existing and future traffic volumes are such that congestion is and will continue to negatively impact the ability of the corridor to move traffic, and

WHEREAS, Anoka County has identified this corridor as needing safety and capacity improvements, and,

WHEREAS, Anoka County and the City of Ham Lake have worked together in the past to make capacity and safety improvements to other segments of CSAH 116 to serve long-term growth and development along the corridor, and,

WHEREAS, Anoka County would like to submit an application to the Transportation Advisory Board to the Metropolitan Council for 2017-2019 to receive federal transportation funds to make capacity and safety improvements on CSAH 116.

## NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF HAM LAKE, MINNESOTA:

That the City of Ham Lake supports Anoka County in preparing and submitting an application for CSAH 116 in the Roadway Expansion category.

Adopted by the City Council of the City of Ham Lake this 17th day of November, 2014.


Michael G. Van Kirk, Mayor


Denise Webster, City Clerk



Project Location
CSAH 116/Bunker Lake Blvd. from Jefferson St. to Highway 65
Anoka County


Project Location
CSAH 116/Bunker Lake Blvd. from Jefferson St. to Highway 65
Anoka County


Source: Google Earth, 2011 Image

## Existing Rural Section within Project Segment

Figure 3
CSAH 116/Bunker Lake Blvd. from Jefferson St. to Highway 65
Anoka County


Source: Google Earth, 2011 Image

## Existing Trail East of Project Limits

Roadway Area Definition

## Results

Project Length: 1 miles
Project Area: 6.333 sq mi


Project
Project Area
For complete disclaimer of accuracy, please visit
http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx


Regional Economy Roadway Expansion Project: CSAH 116 Jefferson St. to TH 65 | Map ID: 1414612907519 Results

Project NOT IN area of Job Concentration.
Project NOT IN to area of
Manufacturing and Distribution.
Project NOT CONNECTED to area of Education Institutions.


## Project

Socio-Economic Conditions Roadway Expansion Project: CSAH 116 Jefferson St. to TH 65 | Map ID: 1414612907519

## Results

Project NOT IN any area of concentrated poverty.

$\square$

Project
Project Area $\square$ Racially concentrated area of poverty $\square$ Above reg'l avg conc of race/poverty Concentrated area of poverty

For complete disclaimer of accuracy, please visit
For complete disclaimer of accuracy, please visit
http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx

3: TH 65 \& CSAH 116

| Direction | All |
| :--- | ---: |
| Volume (vph) | 4556 |
| Total Delay / Veh (s/v) | 50 |
| CO Emissions $(\mathrm{kg})$ | 6.68 |
| NOx Emissions $(\mathrm{kg})$ | 1.30 |
| VOC Emissions $(\mathrm{kg})$ | 1.55 |

## 3: TH 65 \& CSAH 116

| Direction | All |
| :--- | ---: |
| Volume (vph) | 4556 |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 23 |
| CO Emissions $(\mathrm{kg})$ | 4.77 |
| NOx Emissions $(\mathrm{kg})$ | 0.93 |
| VOC Emissions $(\mathrm{kg})$ | 1.11 |

3: TH 65 \& CSAH 116

| Direction | All |
| :--- | ---: |
| Volume (vph) | 4556 |
| Total Delay / Veh (s/v) | 50 |
| CO Emissions $(\mathrm{kg})$ | 6.68 |
| NOx Emissions $(\mathrm{kg})$ | 1.30 |
| VOC Emissions $(\mathrm{kg})$ | 1.55 |

## 3: TH 65 \& CSAH 116

| Direction | All |
| :--- | ---: |
| Volume (vph) | 4556 |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 23 |
| CO Emissions $(\mathrm{kg})$ | 4.77 |
| NOx Emissions $(\mathrm{kg})$ | 0.93 |
| VOC Emissions $(\mathrm{kg})$ | 1.11 |






CSAH 116 - created on 11-03-2014 by imsd1jac

| SYS | NUM | REF_POINT | GIS_ROUTE | GIS_TM | RD_DIR | ELEM | Rely | INV | R_U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 04 | 02000116 | 011+00.337 | 0402000116 | 11.337 | E |  | 1 | 2 | U |
| 04 | 02000116 | 011+00.337 | 0402000116 | 11.337 | Z |  | 1 | 2 | U |
| 04 | 02000116 | 011+00.337 | 0402000116 | 11.337 | Z |  | 1 | 2 | U |
| 04 | 02000116 | 011+00.649 | 0402000116 | 11.649 | w |  | 3 | 1 | U |
| 04 | 02000116 | 011+00.841 | 0402000116 | 11.841 | w |  | 1 | 2 | U |
| 04 | 02000116 | 012+00.130 | 0402000116 | 12.130 | z |  | 1 | 2 | U |
| 04 | 02000116 | 012+00.237 | 0402000116 | 12.237 | w |  | 1 | 2 | U |
| 04 | 02000116 | 012+00.342 | 0402000116 | 12.342 | E |  | 1 | 2 | U |
| 04 | 02000116 | 012+00.352 | 0402000116 | 12.352 | E |  | A | 2 | U |
| 04 | 02000116 | 012+00.361 | 0402000116 | 12.361 | z |  | 1 | 2 | U |

ATP ..... CO
\#1 EAST BOUND BUNKER LAKE BLVD NE./JEFFERSON ST NE. STOPPED AT THE STOP LIGHT HIT FROM BEHIND BY \#2 ..... 2
VEHICLE 1 WAS WB BUNKER LAKE BLVD. DR. OF VEH 1 SAID SHE MISJUDGED HER TURN INTO MYGESTIC OAKS. SH2
V1 SLOWED IN TRAFFIC, V2 HIT V1 IN THE REAR. TRAFFIC SLOWED TO A STOP FOR UNKNOWN REASON. NOT TO SC ..... 2
DRIVER OF \#1 STATED A CAR IN FRONT OF HIM STOPPED QUICK TO TURN LEFT ON ABLE ST., HE STOPPED AND WA ..... 2
UNIT 1 WAS TRAVELING WEST ON BUNKER LAKE BLVD NE BEHIND A LARGE WHITE TRUCK WHICH TURNED RIGHT. UNI ..... 2
VEHICLE 2 ILLEGALLY USING THE RIGHT TURN LANE TO PASS ON THE SHOULDER TO GET TO THE RIGHT TURN LANE ..... 2
UNIT 2 WAS MAKING A WIDE RIGHT TURN. UNIT 1 WAS BEHIND UNIT 2 AND TRIED TO MAKE A RIGHT HAND TURN A ..... 2
\# 1 TRAVELING EAST ON BLB/HWY 65 RIGHT TURN LANE. ..... 2
DISPATCHED TO PI ACCIDENT AT BUNKER LAKE BLVD AND HWY 65. UPON ARRIVAL DEPUTIES LOCATED THE VEHICL ..... 2

| CITY | DOW | MONTH | DAY | YEAR | TIME | SEV | NUM_KILLED | NUM_VEH | JUNC | SL |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1633 | 6-Fri | 1 | 27 | 2012 | 0932 | C | 0 | 2 | 4 | 55 |
| 1633 | 2-Mon | 3 | 19 | 2012 | 1735 | N | 0 | 3 | 7 | 55 |
| 1633 | 5-Thu | 5 | 9 | 2013 | 0935 | N | 0 | 2 | 2 | 50 |
| 1633 | 3-Tue | 10 | 9 | 2012 | 0730 | N | 0 | 2 | 1 | 50 |
| 1633 | 5-Thu | 9 | 8 | 2011 | 0728 | N | 0 | 2 | 1 | 50 |
| 0095 | 5-Thu | 3 | 7 | 2013 | 1540 | C | 0 | 2 | 2 | 55 |
| 0095 | 5-Thu | 7 | 19 | 2012 | 1728 | C | 0 | 2 | 4 | 55 |
| 1633 | 7-Sat | 12 | 21 | 2013 | 1557 | N | 0 | 2 | 4 | 50 |
| 1633 | 6-Fri | 6 | 29 | 2012 | 1028 | C | 0 | 2 | 4 | 55 |
| 1633 | 2-Mon | 7 | 1 | 2013 | 1225 | C | 0 | 2 | 4 | 55 |


| TYPE | DIAG | LOC1 | TCD | LIT | WTHR1 | WTHR2 | SURF | CHAR | DESGN | ACC_NUM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 120280037 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 3 | 121070093 |
| 24 | 7 | 4 | 98 | 1 | 2 | 2 | 1 | 1 | 8 | 131290056 |
| 1 | 1 | 1 | 98 | 2 | 3 | 0 | 2 | 1 | 1 | 122830313 |
| 1 | 1 | 1 | 98 | 1 | 1 | 0 | 1 | 1 | 8 | 112510063 |
| 1 | 3 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 8 | 130660167 |
| 1 | 5 | 1 | 98 | 1 | 1 | 1 | 1 | 1 | 3 | 122010266 |
| 1 | 2 | 2 | 98 | 1 | 2 | 2 | 3 | 1 | 8 | 133550127 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 121860034 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 131820112 |

Desktop Reference for Crash Reduction Factors


| Desktop Reference for Crash Reduction Factors |  |  |  |  |  |  |  | Roadway Departure Crashes |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Crash <br> Type | Crash Severity | Area Type | Road Type | Daily Traffic Volume (veh/day) | Ref | Effectiveness |  |  |  | Study Type |
| Countermeasure(s) |  |  |  |  |  |  | Crash Reduction Factor | Std | Ra | nge |  |
|  |  |  |  |  |  |  | nation | Error | Low | High |  |
| Increase number of lanes (cont'd) | Rightangle | All |  |  | <5,000/lane | 15 | 35 |  |  |  |  |
|  | Rightangle | All |  |  | >5,000/lane | 15 |  |  |  |  |  |
|  | Rightangle | All |  |  |  | 15 | 15 |  |  |  |  |
|  | Rightangle | PDO |  |  |  | 15 | 46 |  |  |  |  |
|  | Sideswipe | All |  |  | <5,000/lane | 15 | 38 |  |  |  |  |
|  | Sideswipe | All |  |  | >5,000/lane | 15 | 44 |  |  |  |  |
|  | Sideswipe | All |  |  |  | 15 | 30 |  |  |  |  |
|  | Sideswipe | All |  |  |  | 15 | 30 |  |  |  |  |
|  | Sideswipe | All |  |  |  | 15 | 35 |  |  |  |  |
|  | Sideswipe | PDO |  |  |  | 15 | 64 |  |  |  |  |
| Increase vertical grade by $1 \%$ | All | All | Rural | 2-lane |  | 23 | -1.6P; P=percent grade ( | solut | valu |  |  |
| Install acceleration/ deceleration lanes | All | All |  |  |  | 15 | 26 |  |  |  |  |
|  | All | All | All | All |  | 1 | 10 |  |  |  |  |
|  | All | All |  |  |  | 15 | 10 |  |  |  |  |
|  | All | All |  |  |  | 15 | 10 |  |  |  |  |
|  | All | All |  |  |  | 15 | 10 |  |  |  |  |
|  | All | All |  |  |  | 15 | 25 |  |  |  |  |
|  | All | All |  |  |  | 15 | 75 |  |  |  |  |
|  | Rear-end | All |  |  |  | 15 | 75 |  |  |  |  |
|  | Sideswipe | All |  |  |  | 15 | 75 |  |  |  |  |
| Install channelized lane | All | All |  |  |  | 15 | 67 |  |  |  |  |
|  | All | PDO |  |  |  | 15 | 62 |  |  |  |  |
|  | Rear-end | All |  |  |  | 15 | 93 |  |  |  |  |
| Install climbing lane (where large difference between car and truck speed) | All | Fatal/ Injury | Rural | 2-lane |  | 38 | 33 |  |  |  |  |


0.58

$[B]$ 42 All Urban | Harwood |
| :---: |
| et al., |
| 2002 | | Countermeasure |
| :---: |
| name changed to |
| match ... [read |
| more $]$ |

- 

| 0.42 | All | Fatal,Serious <br> Injury, Minor <br> Injury | Rural | Harwood <br> et al., <br> 2002 |
| :---: | :---: | :---: | :---: | :---: | | Countermeasure |
| :---: |
| name changed to |
| match $\ldots$. [read |
| more $]$ |

- 

$\begin{array}{ccccc}0.83 \\ {[B]}\end{array} 17$ All $\left.\begin{array}{c}\text { Fatal,Serious } \\ \text { Injury,Minor } \\ \text { Injury }\end{array} \quad \begin{array}{c}\text { Harwood } \\ \text { et al., }\end{array} \begin{array}{c}\text { Countermeasure } \\ \text { name changed to } \\ \text { match ... [read } \\ \text { more] }\end{array}\right]$
$\left.\begin{array}{cccccc}\begin{array}{c}0.5 \\ {[B]}\end{array} & 50 & \text { All } & \begin{array}{c}\text { Fatal,Serious } \\ \text { Injury, Minor } \\ \text { Injury }\end{array} & \text { Urban } & \begin{array}{c}\text { Harwood } \\ \text { et al., } \\ 2002\end{array}\end{array} \begin{array}{c}\text { Countermeasure } \\ \text { name changed to } \\ \text { match ... [read } \\ \text { more] }\end{array}\right]$

- Countermeasure: Instaltraised median


0.5644 All \begin{tabular}{c}
Fatal, Serious <br>
injury

 

Schultz <br>
et al., <br>
2011
\end{tabular}

0.29 All All Urban | Schultz |
| :---: |
| et al., |
| 2008 |

0.45 Angle All Urban | Schultz |
| :---: |
| et al., |
| 2008 |

|  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0.86 | 14 | AllYanmaz- <br> Tuzel <br> and |
| Ozbay, |  |  |
| 2010 |  |  |

## Dual CRF for CSAH 116 at Lincoln Street

Improvements include the expansion from a 2 to 4 lane facility and installation of left-turn lanes in each direction.

CR1=Increase number of lanes
CR2=Install left-turn lanes
$C R=1-(1-C R 1) *(1-C R 2)$

Left-Turn Crash: CR=1 $-(1-.71)^{*}(1-.48)=.85$

## CRF for CSAH 116 at Johnson Street

The project is closing the median at the intersection. Therefore all cross-street right-angle crashes would be eliminated (100\%)

## Dual CRF for CSAH 116 between Jefferson Street and Lincoln Street

Improvements include the expansion from a 2 to 4 lane facility and installation of a median. Other intersection improvements are included along the corridor.

CR1=Increase number of lanes
CR2=Install a raised median
$C R=1-(1-C R 1) *(1-C R 2)$

Rear End Crash: CR=1 - (1-.52)*(1-.39) = . 71


