

# HSIP

## *Highway Safety Improvement Program*

For State Fiscal Years 2030 and 2031

### Metro District Program Criteria

Minnesota Department of Transportation  
Metro District Traffic Engineering  
September 2025

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# Introduction

This document explains the requirements and gives guidance for the Highway Safety Improvement Program (HSIP) to applicants desiring to obtain federal funds under the Federal Infrastructure Investment and Jobs Act (IIJA) legislation. In IIJA, the purpose of HSIP is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads. Projects submitted should have the greatest potential of achieving this objective. See Appendix B for a timeline flowchart of the HSIP solicitation, application, and evaluation process.

## **General Policies:**

1. HSIP funds are available to MnDOT; the counties of Anoka, Carver, Chisago, Dakota, Hennepin, Ramsey, Scott, and Washington; and the State Aid eligible cities and towns within those counties. Applicants that are not State Aid cities in the eight-county metro area, those with populations under 5,000, must contact the MnDOT Metro State Aid Office prior to submitting their application to determine if a public agency sponsor is required.
2. The maximum HSIP federal award is \$2,000,000 per project. A minimum local match of 10% of the total project cost is required. The match must be in “hard dollars.” Soft matches (i.e., volunteer labor, donated materials, professional services) cannot be included in the match.
3. HSIP funding cannot be used as a “payback” source of funding, whereby local agencies construct a project and anticipate future reimbursement from HSIP funds.
4. This solicitation is for both Proactive and Reactive safety projects. Distribution of funds between these two project types will depend on a number of factors including the dollar amount and number of projects submitted in each category, types of projects submitted and geographic balance of projects throughout the Metro District.
5. Funding is for roadway construction and reconstruction projects designed to decrease the frequency and/or severity of crashes. These crashes can involve pedestrians, bicycles, and other non-motorized vehicles. The project must be a permanent improvement. Right-of-way, design, and construction engineering costs are not fundable and shall not be included in the project cost. Please refer to <https://safety.fhwa.dot.gov/hsip/>
6. The amount of federal funds awarded is based upon the original submission. Any increase in scope or costs will be the responsibility of the applicant.
7. Projects awarded funding through the regional HSIP solicitation are subject to the Region’s Program Year Policy and Scope Change Policy available at <https://metro council.org/Council-Meetings/Committees/Transportation-Advisory-Board-TAB/Policies.aspx>

8. Applicants may apply for both the Regional Solicitation and the Highway Safety Improvement Program, but projects can only be awarded funds from one of the two federally funded programs.
9. The amount of funding available for this 2026 Metro District solicitation for State Fiscal Years 2030 and 2031 is approximately \$XX million for the two-year period. Additional funding may be available in State Fiscal Year 2028, or 2029.
10. Based on policy guidance in the 2050 Transportation Policy Plan, there is a soft target to split the competitive Metro District HSIP funding based on the percentage of the total fatal and serious injuries in the region that involve bicyclists and pedestrians. This would suggest that approximately 31% of the funding should be awarded to either standalone bike and pedestrian safety projects or to other roadway projects that include bike and pedestrian safety elements.
11. Two training sessions will be offered by MnDOT staff to help applicants with the HSIP process. The sessions will cover topics such as: Reactive vs Proactive safety categories, Crash Data, CMF selection, Benefit/Cost, Part of a Plan, Cost per User Exposure, Bike and Pedestrian Safety, etc. There will be an opportunity for applicants to ask questions. Dates to be determined.

# Qualifying Criteria

The objective of the Highway Safety Improvement Program (HSIP) is to identify, evaluate, and implement cost effective construction safety projects with a primary goal of **reducing and preventing fatal and serious injury crashes on all public roads.**

Priority will be given to smaller stand-alone, low-cost/high-benefit projects. Applicants should submit focused safety projects and not asset replacement projects unless the replacement project by itself increases safety. See Appendix C for additional traffic signal requirements. Safety features, such as guardrails, that are routinely provided as part of a broader project should be funded from the same source as the broader project. In some instances, narrow shoulder paving in conjunction with resurfacing projects may be allowed. See Appendix D for this exception.

## **FOR PROACTIVE SAFETY PROJECTS:**

For MnDOT Metro District and the Metro counties, their road safety plans should be the starting point for selecting projects for this solicitation. For state and county roads, projects that originate from a road safety plan will be given priority. For local streets, a city may propose strategies similar to their regional/county/local safety action plans, if applicable.

The following crash data is provided to assist cities in focusing on the types of projects to submit. On city roads in the Metro District over the latest 5-year period available (2020-2024, preliminary) there have been 1,559 fatal and serious injury crashes:

- 1,067 (68%) involved an intersection
- 345 (22%) involved a pedestrian
- 136 (9%) involved a bicyclist
- 421 (27%) involved lane departure

The majority of fatal and serious injury crashes fall into the four categories listed above, so the focus should be on low-cost solutions that are geared toward impacting these types of crashes.

Projects should propose safety improvements that directly address the types of crashes experienced within the project area.

Priority will be given to applications that are making cost effective impacts throughout a network (at multiple locations) or via a corridor-based approach.

Signalized intersections in urban areas tend to involve more risk than other types of intersections. A focus on signalized intersections, such as countdown timers, enforcement lights, curb extensions, etc. would have an impact on these target crashes. Other types of upgrades that are mainly capacity focused are much less likely to address target crashes, so typically are not eligible for HSIP funds.

The following is a list of example projects that would be considered for Proactive safety funding with this program:

- J-Turns/Median U-Turns
- Rumble strips/stripes
- Wider striping (6")
- Embedded wet reflective striping
- Delineation for sharp curves (chevrons)
- Cable median barrier
- Crosswalk enhancements (ex. RRFBs or Pedestrian Hybrid Beacons)
- Intersection lighting
- Corridor lighting
- Curb extensions (bump-outs)
- Sight distance improvements
- Remove hazards in clear zones
- Pedestrian countdown timers
- Construct ped refuge islands and raised medians
- Enforcement lights on signals
- Turn lanes
- New guardrail (not replacement)
- Frontage roads (with access removals)
- Sidewalks or trails
- Narrow shoulder paving (see Appendix D)
- Signal interconnect (fiber)
- Pavement messages
- Roundabouts
- Stop bars
- Safety edge
- Friction treatments
- Road diets
- Signing upgrades for conspicuity/increased retroreflectivity

## **FOR REACTIVE SAFETY PROJECTS:**

For this solicitation, proposed projects qualify for the HSIP program by having a benefit/cost (B/C) ratio of 1.0 or greater\*. Note: The B/C ratio shall exclude right-of-way costs. The cost used should be the total project cost, not the amount of requested HSIP dollars.

Note: a B/C ratio of 1.0 is required to submit a Reactive safety project. Depending on funding available and the number/type of projects submitted, and scores for other categories, a B/C significantly above 1.0 may be needed to compete in the Reactive safety category.

\*Only crashes contained within the Minnesota Department of Public Safety's database can be used to determine the B/C for project submittals. If the agency applying has access to MnCMAT, crash data from that system can be used as part of submittal. MnCMAT data will be reviewed by the HSIP committee to ensure accuracy. Crash data can also be obtained from MnDOT if an agency does not have access to MnCMAT. MnDOT Metro District Traffic Office will provide a crash listing, upon request.

If an individual crash is not in the DPS crash database, it cannot be included in the analysis or the submittal, unless the agency provides acceptable proof of the existence of the crash. Acceptable proof is a copy of the police or citizen accident report. If a crash report was not written, the crash may not be included. If the crash had no injuries and the minimum dollar amount was not met ("N" in the "\$min" box on a police report), the crash cannot be included.

See Appendix A for MnDOT crash data contacts.

# Prioritization Criteria

The HSIP project evaluation committee will determine if the submitted projects have met the intent of the qualifying criteria and HSIP. This will consider information regarding how a project was prioritized, including details on how the potential project will improve safety.

Pedestrian and bicycle crashes are a focus area in the Minnesota Strategic Highway Safety Plan. Additional consideration will be given to projects which address pedestrian and bicycle safety.

**To account for the greater proportion of severe injuries of bike and pedestrian crashes, each bike and pedestrian crash should be entered as two crashes on the B/C worksheet.**

## **FOR PROACTIVE SAFETY PROJECTS:**

For Proactive safety projects, priority will be given to projects identified in road safety plans and projects that have the highest possibility of reducing the chances of fatal and serious injury crashes. The following criteria will be used in ranking proactive safety projects:

- Cost per user exposure
- Connection to the 2025-2029 Minnesota Strategic Highway Safety Plan (SHSP) – other plans can be used to support the project, but they should reflect the project types outlined in the SHSP. This Plan can be found at the following link: [Minnesota Strategic Highway Safety Plan - MnDOT \(state.mn.us\)](https://www.mn.gov/transportation/strategic-highway-safety-plan)
- Correctable fatal and serious injury crash history (10 years, 2015 - 2024)
- Expected risk reduction in fatal or serious injury crashes - crash modification factor for the specific strategy
- Part of a plan (safety plan or road safety audit recommendations) – include a link to or an excerpt from the existing plan
- Improvements for people outside of vehicles

## **FOR REACTIVE SAFETY PROJECTS:**

The reactive safety projects will be prioritized by:

- Expected reduction in fatal and serious injury crashes. Highest B/C ratio, based on crash data from 2020-2024.
- The scoring committee will review the projects to determine how well they meet the qualifying criteria and intent of the HSIP program, to achieve a significant reduction in traffic fatalities and serious injuries on all public roads. In addition to crash history, the existence of risk factors and experience with crash types that are risk factors for more severe crashes are relevant here.

- Correctable fatal and serious injury crash history (10 years, 2015 - 2024)
- Improvements for people outside of vehicles

**EVALUATION PROCESS:**

Project proposals will be reviewed by MnDOT’s Metro District Traffic Engineering unit initially to determine if they meet the qualifying criteria. The HSIP committee will finalize a prioritized list of projects to be funded.

The HSIP committee will consist of:

- MnDOT Metro District Traffic Engineer - Program Support
- MnDOT Metro Traffic Safety Specialist
- MnDOT State Traffic Safety Engineer
- Two County/City Engineers
- Metropolitan Council Planner

# Required Materials and Special Instructions

Following is a list of materials **required** to be submitted per project. Failure to provide this information may exclude the submission from consideration:

- HSIP Application (Form 1) (See Appendix for Form 1)
- Project Information Sheet (Form 2) (See Appendix for Form 2)
- Location map
- A paragraph explaining the methods the applicant used to choose the project and how it was selected over other potential projects within the applicant's city or county. The description should focus on any safety analysis or ranking involved in the selection process and explain the methodology used.
- A photograph showing the existing conditions within the project area. If awarded funds, this photograph will be utilized in the Metropolitan Council's online mapping tool to show a before-and-after comparison of the improvement. By submitting the application, the applicant is agreeing to allow the Metropolitan Council to use this photograph.
- Project plan or preliminary layout/scope of work proposed.
- Provide the AADT or the average AADT for the project area. If an intersection project, also provide the AADT for the minor road. Applicants may use AADT volume from the MnDOT Traffic Mapping Application (instructions under the Help Document).
- For intersection projects, provide collision diagrams. MnDOT will not provide collision diagrams.
- Include crash listings (2015-2024) obtained from MnDOT or MnCMAT.
- A list of commonly used Crash Modification Factors (CMFs) has been created. Applicants should use these CMFs (included in Appendix G), when applicable.
- For applications where a CMF is not chosen from the list, the applicant will provide a reasonable CMF from the FHWA's CMF Clearinghouse (MUST include a printout of the CMF reference page) <http://www.cmfclearinghouse.org/>  
**The applicant is required to write a brief logical explanation on why they chose a particular CMF.**
- If an appropriate CMF cannot be found, the applicant should provide research support for the crash modification used to calculate the crash reduction. In the unlikely event

that no research exists, the application may contain an estimate of crash reductions based upon logical assumptions.

- The applicant must include a letter of support from the agency that owns/operates the facility (if different from the applicant) indicating that it is aware of and understands the project being submitted, and that it commits to operate and maintain the facility for its design life.
- 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.
- Projects on MSAS and CSAH roadways must meet State Aid standards.
- The project must comply with the Americans with Disabilities Act (ADA).
- 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 transition plan must be completed by the local agency before the HSIP application deadline.
  - The applicant is a public agency that employs 50 or more people and has a completed ADA transition plan that covers the public right of way/transportation. Date plan completed by governing body and link to plan: \_\_
  - The applicant is a public agency that employs fewer than 50 people and has a completed ADA self-evaluation that covers the public rights of way/transportation. Date self-evaluation completed and link to plan: \_\_

**FOR PROACTIVE SAFETY PROJECTS:**

- Provide total miles of strategy deployment.
- Number of fatal and serious injuries in the past 10 years (2015-2024) that have occurred where the applicant proposes to implement an HSIP project. If the agency submitting the application has access to MnCMAT, crash data from that system can be used as part of submittal. MnCMAT data will be reviewed by the HSIP committee to ensure accuracy. Crash data can also be obtained from MnDOT if an agency does not have access to MnCMAT. MnDOT Metro District Traffic Office will provide a crash listing, upon request (see Appendix A for contact information). Crash data should include all crash types and severities, including pedestrian and bicycle crashes. Projects may be eligible for HSIP even if no fatal or severe injuries have occurred in your implementation area.

- Collision diagrams may be submitted but are not required.
- If project is on a trunk highway, provide an approved Intersection Control Evaluation (ICE) report for proposed intersection traffic control changes.
- MnDOT and counties, please attach copy of the appropriate page(s) from your highway safety action plan for projects submitted that are referenced in your plan. These strategies can also be identified in related safety plans and studies, but they need to align with those identified in the SHSP and be HSIP eligible.
- Discuss how the project will improve safety for people outside of vehicles. Safety countermeasures for pedestrians and bicyclists can include those identified as part of the Safe Systems Approach, or by the FHWA as part of its Safe Transportation for Every Pedestrian program or others in its Proven Safety Countermeasures (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals). More information about pedestrian and bicycle safety is also available in MnDOT's Best Practices for Pedestrian/Bicycle Safety.

### **FOR REACTIVE SAFETY PROJECTS:**

- The crash data shall include crashes from calendar years 2020-2024. Only crashes contained within the Minnesota Department of Public Safety's database can be included. This is to ensure that all project proposals can be compared equally. If the agency submitting application has access to MnCMAT, crash data from that system can be used as part of submittal. MnCMAT data will be reviewed by the HSIP committee to ensure accuracy. Crash data can also be obtained from MnDOT if an agency does not have access to MnCMAT. MnDOT Metro District Traffic Office will provide a crash listing, upon request (see Appendix A for contact information). Crash data should include all crash types and severities, including pedestrian and bicycle crashes.
- If an individual crash is not in the DPS crash database, it cannot be included in the analysis or the submittal, unless the agency provides acceptable proof of the existence of the crash. Acceptable proof is a copy of the police or citizen accident report. If a crash report was not written, the crash may not be included. If the crash had no injuries and the minimum dollar amount was not met ("N" in the "\$min" box on a police report), the crash cannot be included.

***Crash data requests to MnDOT should be made as soon as possible. Requests made after June 15<sup>th</sup> may be significantly delayed due to limited resources. MnDOT will not provide collision diagrams.***

- Number of fatal and serious injuries in the past 10 years (2015-2024) that have occurred where the applicant proposes to implement a HSIP project. See explanation above for acceptable methods and sources of crash data. Projects may be eligible for HSIP even if no fatal or serious injuries have occurred in your implementation area.

- HSIP B/C Worksheet – A sample HSIP B/C worksheet is included in Appendix E. Refer to Appendix F for recommended service life criteria. You can find an Excel version of a [HSIP Benefit Cost Worksheet](#) on this web page under Reference Material. Note: The Discount Rate has changed significantly from previous versions of the B/C worksheet, ensure you are using the most up to date version from the website.
- If project is on a trunk highway, provide signed Intersection Control Evaluation (ICE) report for proposed intersection traffic control changes.
- Description of how the project meets the intent of the HSIP program (i.e., reduce fatal and serious injury crashes within the proposed project area).
- Proposed roundabouts must address mini-roundabouts as an option.
- Discuss how the project will improve safety for people outside of vehicles. Safety countermeasures for pedestrians and bicyclists can include those identified by the Safe Systems Approach, or the FHWA as part of its Safe Transportation for Every Pedestrian program or others in its Proven Safety Countermeasures (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals). More information about pedestrian and bicycle safety is also available in MnDOT’s Best Practices for Pedestrian/Bicycle Safety.

**SUBMISSION OF APPLICATION:**

Applicants will send applications electronically. There will be no paper copies needed. Within two business days, applicants should receive notice that their application was received. If no response is received, the applicant should reach out to contacts in Appendix A to verify the application was received.

Documents should have “recognize text” enabled when converting to PDF. This helps the review process by enabling the use of the search function.

**Electronic submittal to:** [Ashley.Hansen@state.mn.us](mailto:Ashley.Hansen@state.mn.us)

# Crash Modification Factors

A Crash Modification Factor (CMF) is the inverse of the percentage of crash reduction that may be expected after implementing a given countermeasure. A CMF should be regarded as a generic estimate of the effectiveness of a countermeasure. The estimate is a useful guide, but it remains necessary to apply engineering judgment and to consider site-specific environmental, traffic volume, traffic mix, geometric, and operational conditions, which will affect the safety impact of a countermeasure.

If possible, an application should reference the FHWA Crash Modification Factors identified in the list of commonly used CMFs (included in Appendix G). If an appropriate CMF is not included for the proposed countermeasure, applicants may use a one from FHWA's CMF Clearinghouse. The Clearinghouse can be found at the following website <http://www.cmfclearinghouse.org/>.

**For all applications, the applicant is required to write a brief, logical explanation on why they chose a particular CMF.**

When an appropriate CMF cannot be found in the recommended list, other CMFs from the clearinghouse should be used. If neither of those are available, crash reduction percentages from studies not found in the Crash Modification Clearinghouse may be used. Lastly, if no studies can be found to provide a crash reduction, proposals may contain an estimate of crash reductions based upon logical assumptions. The proposal will have to thoroughly demonstrate in a logical fashion how each improvement will impact each type of crash. The HSIP Committee will review the documentation for accuracy and concurrence with logic.

The applicant may contact a member of the MnDOT review team (see Appendix A) to discuss crash modification assumptions for each improvement project prior to submittal.

If only one improvement is included in the proposed project, the CMFs from the FHWA CMF Clearinghouse, or a modification based on an estimated procedure described above can be entered directly into the benefit/cost (B/C) worksheet. If two improvements are included in the proposed project, the overall crash modification factor should be determined using the "multiple safety improvement crash modification formula" described below. No more than two CMFs can be used in the Multiple Safety Improvements Crash Reduction Formula.

## **Multiple Safety Improvement Crash Modification Formula:**

- **Multiple CMF = CMF #1 x CMF #2**

CMF is the overall crash reduction factor expressed as a decimal (to two significant digits) to be used on the B/C worksheet.

CMF #1 is the crash reduction factor for the first improvement expressed as a decimal.

CMF #2 is the crash reduction factor for the second improvement expressed as a decimal.

- Each crash may only be used on one B/C worksheet.
- Use the total cost of the project in the denominator on the B/C worksheet(s).
- All individual B/C worksheets must be submitted, and the application must include an overall B/C calculation.
- If using multiple CMFs providing your calculation is required.
- No more than two CMFs per crash (using the formula) will can be applied. For example: a crash that occurs where multiple countermeasures are proposed – median construction, lighting, stop sign improvements – an applicant will need to choose which two CMFs will be used for the Multiple Safety Improvement Crash Modification Formula calculation to be used in the B/C worksheet. The crash cannot then be used in in another B/C worksheet, effectively applying more than two modifications factors to a single crash. The CMFs chosen for the formula must directly apply to any crashes included on the B/C worksheet.

## Use of Fatal Crashes

Type of Crash	Crash Severity	Cost per Crash
Fatal (F)	1 Fatal Crash (K)	\$15,900,000
Personal Injury (PI)	2 Serious Injury (A)	\$1,700,000
Personal Injury (PI)	3 Minor Injury (B)	\$380,000
Personal Injury (PI)	4 Possible Injury (C)	\$180,000
Property Damage (PD)	5 Property Damage Only (N)	\$18,000

Since fatal crashes are often randomly located, there is considerable debate as to whether they should be treated as personal injury crashes or as fatalities. Furthermore, the value assigned is subject to many considerations. With the above in mind, the following criteria shall be used when computing expected crash reduction benefits:

1. The cost assigned to a fatal crash may be used if there are two or more correctable fatal crashes being addressed by the same proposed improvement, within the five-year period.

or

2. The cost for a fatal crash may be used when there is at least one correctable fatal crash **and** two or more correctable serious injury crashes being addressed by the same proposed improvement, within the five-year period.

If the above criteria are not satisfied, a correctable fatal crash shall be treated as two serious injury type crashes when computing the benefit-cost ratio. To do this, enter the correctable fatal crash as two serious injury crashes on the HSIP B/C worksheet.

For example, if there is a project with two fatal crashes within the project limits, both being at an intersection that is being modified by a roundabout project that would address both crashes, it would be acceptable to count two fatal crashes at the fatal crash cost.

Alternatively, if one of two fatal crashes within the project limits was a right-angle crash that occurred at an intersection being modified by a roundabout project, and the other fatal crash was a run-off-road hitting a tree within the rumble strip installation portion of the same project, the use of a fatal crash cost in the B/C worksheet would not be allowed – in this case each fatal would be entered as two serious injury crashes.

If there are questions about using the full fatal value or the 2x serious injury crash value, please contact Kaare Festvog or Ashley Hansen to discuss the issue.

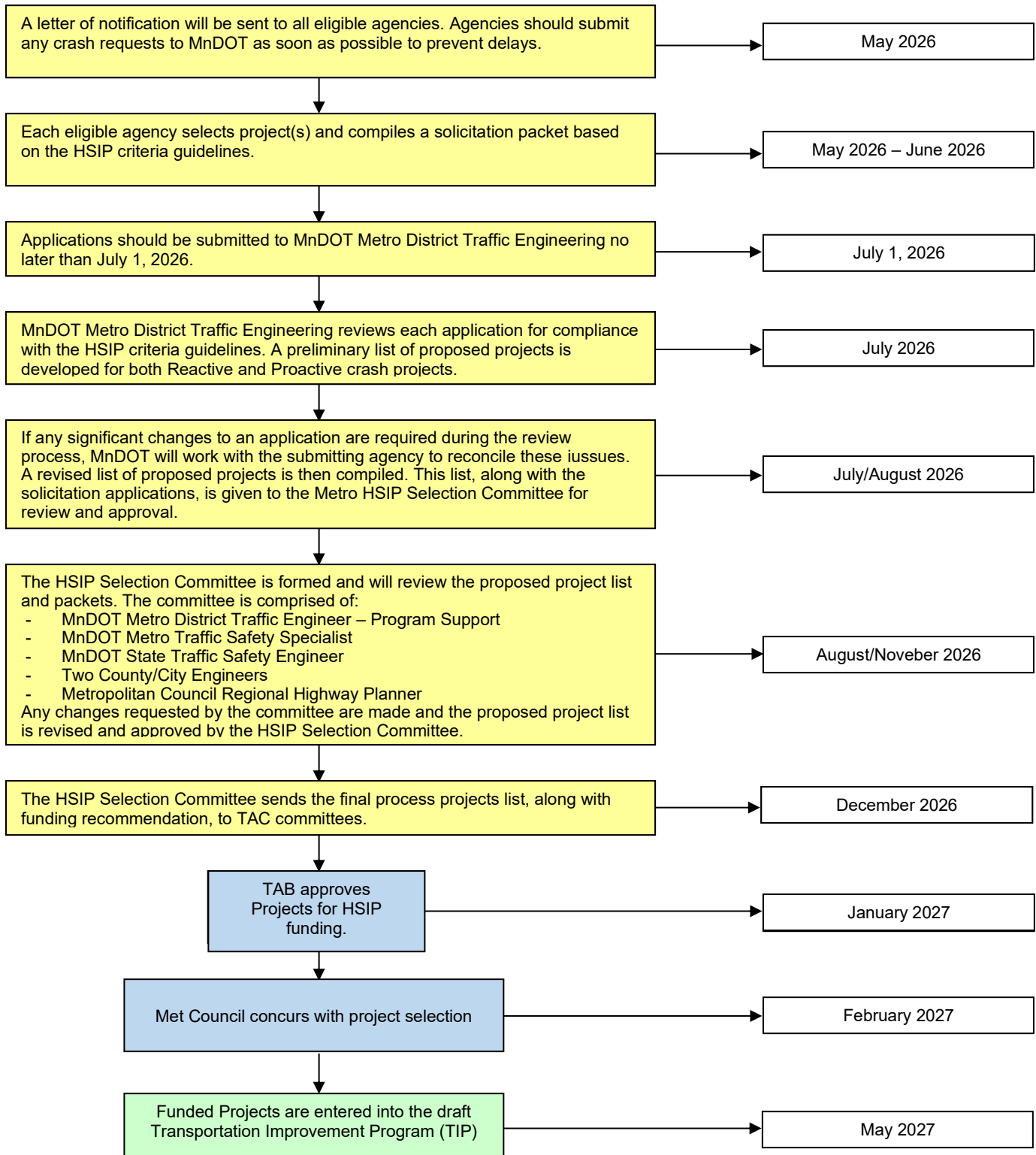
# Appendix A

## MnDOT Metro District Traffic Engineering Program Support Contacts

<b>Information</b>	<b>Contact</b>	<b>E-Mail</b>	<b>Phone Number</b>
Proposal Content	Kaare Festvog	<a href="mailto:kaare.festvog@state.mn.us">kaare.festvog@state.mn.us</a>	(651) 440-2855
Proposal Content	Ashley Hansen	<a href="mailto:ashley.hansen@state.mn.us">ashley.hansen@state.mn.us</a>	(651) 775-9497
Crash Information	Cherzon Riley	<a href="mailto:cherzon.riley@state.mn.us">cherzon.riley@state.mn.us</a>	(612) 322-1080

# Appendix B

## Highway Safety Improvement Program (HSIP) Metro District Process Timeline (2026)



# Appendix C

## **Traffic Signals:**

In most cases, traffic signals are not safety control devices. They assign right of way for vehicles and are necessary for operational purposes. However, in some cases they can improve safety. The objective for the Highway Safety Improvement Program is “to significantly reduce fatalities and serious injuries resulting from crashes on all public roads” (23 CRF 924.5). Signal projects will be considered for funding provided they meet the following criteria.

### 1. New Signals:

- Warrant 7, Crash Experience from the Minnesota Manual on Uniform Traffic Control Devices (MN MUTCD) must be met. Signal Warrant 7 – Crash Experience (Section 4C.08) should be followed. Exceptions to meeting this warrant may be made if an adequate case is made on how the new signal will “reduce the number of, or potential for, fatalities and serious injuries” as required by the IIA.
- All new signals on a trunk highway shall meet current MnDOT design standards. If exceptions to incorporating these standards are necessary due to site-specific conditions, explanation should be included with the application.
- Installation of red light running (enforcement) lights is strongly encouraged. Installation costs are low when installed with new signals and they provide the benefit of red light running enforcement to be accomplished by one law enforcement officer, instead of two.
- Documentation should be provided confirming that other intersection types were considered but are not feasible. Those considered should include intersection types that reduce the probability of severe right-angle crashes. Roundabouts, J-Turns, Median U-Turns, and some alternative intersection types fall into this category.

### 2. Existing Signals:

- Rebuilding an existing signal system may be eligible for HSIP funding if it is necessary for implementation of a geometric improvement where the signal system cost is incidental to the primary geometric safety improvement on the project.
- Rebuilding an existing signal system without geometric improvements may be eligible for HSIP funding if additional safety devices are included, such as: adding mast arms, adding signal heads, interconnect with other signals, etc.

### 3. Retiming of Signal Systems:

- The development and implementation of new signal timing plans for a series of signals, a corridor, or the entire system are not eligible for HSIP funds if the work is done with internal personnel. If an agency wishes to submit a timing project, the application must show how the timing will specifically improve roadway safety. Capacity specific

improvements are not HSIP eligible. However, it may be eligible if retiming is required after construction of a project including signals.

# Appendix D

## **Guidelines for HSIP-funded narrow shoulder paving in conjunction with resurfacing projects:**

If narrow shoulder paving projects are funded through HSIP, it makes sense under certain circumstances to do the work in conjunction with a resurfacing project, rather than as a separate, stand-alone project. Work involving the paving of existing aggregate or turf shoulders with 1 to 2 feet of pavement may be allowed within the following guidelines:

- Narrow shoulder paving can be done in conjunction with resurfacing if the project is along one of the segments specifically identified in the County Road Safety Plan for this type of work.
- The project can be at a different location than those identified in the CRSP if it is along a higher-risk segment, as identified in the CRSP. The CRSP assigns a risk rating to highway segments based on the following criteria: traffic volume, rate and density of road departure crashes, curve density and edge assessment. The risk rating ranges from 0 (lower risk) to 5 (higher risk). **If the proposed project is along a highway segment with a rating of 4 or 5, then it can be done in conjunction with a resurfacing project.** This process ensures that narrow shoulder paving is being done at locations of higher risk rather than being driven by the schedule of pavement rehabilitation projects.
- The shoulder paving must include a safety edge and either shoulder or edgeline rumble or mumble strips.
- If a project is required to construct more than 2-foot shoulders per State Aid standards, or if the applicant plans for more than 2-foot shoulders, HSIP funding cannot be used for any additional width beyond 2 feet (local funds may be used for the additional width).
- The applicant should use regular construction dollars to upgrade guardrail and other safety hardware as part of the resurfacing project.

# Appendix E

Updated 07/25/2020

## Traffic Safety Benefit-Cost Calculation

Highway Safety Improvement Program (HSIP) Reactive Project



A. Roadway Description		
<b>Route</b>	<input style="width: 90%;" type="text"/>	<b>District</b> <input style="width: 90%;" type="text"/>
<b>Begin Location</b>	<b>End RP</b>	<b>County</b>
<b>Location</b>	<b>Miles</b>	<input style="width: 90%;" type="text"/>

B. Project Description	
<b>Proposed Work</b>	<input style="width: 90%;" type="text"/>
<b>Project Cost*</b>	<b>Installation Year</b>
<input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>
<b>Project Service</b>	<b>Traffic Growth I</b>
<input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>

\*exclude Right of Way from Project Cost

C. Crash Modification Factor	
<b>Fatal (K) Crashes</b>	<b>Reference</b> <input style="width: 50%;" type="text"/>
<b>Serious Injury (A) Crashes</b>	<input style="width: 90%;" type="text"/>
<b>Moderate Injury (B) Crash</b>	<b>Crash T<sub>1</sub></b> <input style="width: 90%;" type="text"/>
<b>Possible Injury (C) Crashes</b>	<input style="width: 90%;" type="text"/>
<b>Property Damage Only Crashes</b>	<a href="http://www.CMFclearinghouse.org">www.CMFclearinghouse.org</a>

D. Crash Modification Factor (optional second CMF)	
<b>Fatal (K) Crashes</b>	<b>Reference</b> <input style="width: 50%;" type="text"/>
<b>Serious Injury (A) Crashes</b>	<input style="width: 90%;" type="text"/>
<b>Moderate Injury (B) Crash</b>	<b>Crash T<sub>1</sub></b> <input style="width: 90%;" type="text"/>
<b>Possible Injury (C) Crashes</b>	<input style="width: 90%;" type="text"/>
<b>Property Damage Only Crashes</b>	<a href="http://www.CMFclearinghouse.org">www.CMFclearinghouse.org</a>

E. Crash Data		
<b>Begin Date</b>	<b>End Date</b>	<input style="width: 90%;" type="text"/> 0 years
<b>Data Source</b> <input style="width: 90%;" type="text"/>		
<b>Crash Severity</b>	<b>&lt; enter target crashes &gt;</b>	<b>&lt; optional 2nd CMF &gt;</b>
K crashes		
A crashes		
B crashes		
C crashes		
PDO crashes		

F. Benefit-Cost Calculation		
\$0	<b>Benefit (present value)</b>	<b>B/C Ratio = N/A</b>

\$0 Cost

D/L RdIU - N/A

Proposed project expected to reduce 0 crashes annually, 0 of which involving fatality or serious injury.

**F. Analysis Assumptions**

Crash Severity	Crash Cost		
K crashes	\$1,600,000	<b>Link:</b> <a href="http://mdot.gov/planning/program/appendix_a.htm">mdot.gov/planning/program/appendix_a.htm</a>  <b>Real Discount</b> 0.6% Default <b>Traffic Growth</b> 0.0% Default <b>Project Service</b> 10 years Default	
A crashes	\$800,000		
B crashes	\$250,000		
C crashes	\$130,000		
PDO crashes	\$15,000		

**G. Annual Benefit**

Crash Severity	Crash Reduction	Annual Reduction	Annual Benefit
K crashes	0.00	0.00	\$0
A crashes	0.00	0.00	\$0
B crashes	0.00	0.00	\$0
C crashes	0.00	0.00	\$0
PDO crashes	0.00	0.00	\$0
			<b>\$0</b>

**H. Amortized Benefit**

Year	Crash Benefit	Present Value	
1	\$0	\$0	<b>Total = \$0</b>
2	\$0	\$0	
3	\$0	\$0	
4	\$0	\$0	
5	\$0	\$0	
6	\$0	\$0	
7	\$0	\$0	
8	\$0	\$0	
9	\$0	\$0	
10	\$0	\$0	
11	\$0	\$0	
12	\$0	\$0	
13	\$0	\$0	
14	\$0	\$0	
15	\$0	\$0	
16	\$0	\$0	
17	\$0	\$0	
18	\$0	\$0	
19	\$0	\$0	
20	\$0	\$0	

# Appendix F

## Recommended Service Life Criteria (in years)

### Intersection & Traffic Control

Construct/Lengthen Turn Lanes	20
Provide Traffic Channelization	20
Improve Sight Distance (non-vegetation)	20
Install Traffic Signs	15
Install Oversized Stop Sign, Gated Stop Signs	15
Upgrade to Solar Powered LED Sign	5
Update to Wired LED Sign	10
Increase Sign Retroreflectivity	15
Install Pavement Markings (paint)	1
Install Pavement Markings (wet-reflective, tape, thermoplastic)	5
Install Delineators	5
Install Illumination	15
Install/Upgrade Traffic Signals	10
Retime Coordinated System	5
Improve Signal Head Visibility	10
Implement Flashing Yellow Arrow	10
Construct Roundabout	20
Construct J-Turn/Median U-Turn	20

### Pedestrian & Bicycle Safety

Construct Sidewalk	20
Construct Pedestrian & Bicycle Overpass/Underpass	30
Install Fencing & Pedestrian Barrier	10
Construct Dedicated Bike Facility at Intersection	20
Install Bike Lane	20
Install Curb Extensions and Medians	20
Install Pedestrian Refuge Island	20
Install RRFB/Pedestrian Hybrid Beacon	10
Install Pedestrian Countdown Timer	10
Install Leading Pedestrian Interval	10

### Roadway & Roadside

Change Pavement Width	20
Add Lane(s) to Traveled Way	20
Construct Two Way Left Turn Lane	20
Implement Road Diet	20
Construct Median for Traffic Separation	20
Widen or Improve Shoulder	20
Realign Roadway (except at railroads)	20
Groove Pavement for Skid Treatment	10
	10
Install Breakaway Sign Supports	15
Install Breakaway Utility Poles	15
Relocate Utility Poles	20
Install Guardrail End Treatment	10
Change Barrier Type	25
Upgrade or Install Concrete Median Barrier	25
Upgrade or Install Cable Median Barrier	25
Install Impact Attenuators	10
Install Outside Guardrail/Barrier	25
Install Chevron Signs	15
Flatten or Re-Grade Side Slopes	20
Relocate/Remove Fixed Object	20
Install Edge Treatments	10
Provide Milled Center Line/Edge Line	
Rumble Strips/Stripes	10

### Structures

Upgrade Bridge Rail	25
Widen or Modify Bridge for Safety	30
Replace Bridge for Safety	30
Construct New Bridge for Safety	30

Source: Federal Highway Administration (FHWA) Countermeasure Service Life Guide



## Federal HSIP Funding Application (Form 1)

**INSTRUCTIONS:** Complete and return completed form and application packet to Ashley Hansen  
[ashley.hansen@state.mn.us](mailto:ashley.hansen@state.mn.us).

**Applications must be received by 4:30 pm on July 1, 2026.**

**\*Be sure to complete and attach the Project Information form. (Form 2)**

### I. GENERAL INFORMATION

1. APPLICANT:

2. JURISDICTIONAL AGENCY (IF DIFFERENT):

3. MAILING ADDRESS:

CITY:

STATE:

ZIP CODE:

4. COUNTY:

5. CONTACT PERSON:

TITLE:

PHONE NO.  
(     )

CONTACT E-MAIL ADDRESS:

### II. PROJECT INFORMATION

6. PROJECT NAME:

7. BRIEF PROJECT DESCRIPTION - Include location, road name, type of improvement, etc. (A complete description can be submitted separately):

8. HSIP PROJECT CATEGORY – Check which project grouping in which you wish your project to be scored.

Proactive

Reactive

### III. PROJECT FUNDING

9. Are you applying, or have you applied for funds from other source(s) to fund this project? Yes  No

If yes, please identify the source(s):

10. FEDERAL AMOUNT\*: \$

13. MATCH % OF PROJECT TOTAL:

11. MATCH AMOUNT: \$

14. SOURCE OF MATCH FUNDS:

12. PROJECT TOTAL: \$

15. REQUESTED PROGRAM YEAR(S): **SEE NOTE BELOW\*\***

2030     2031     Either year

16. SIGNATURE:

17. TITLE:

**\*Would you accept a federal award that covers 80% of the total project cost if non-HSIP federal funds were awarded? Yes  No**

**\*\*NOTE: If funding becomes available in 2028, or 2029 could this project be advanced to meet this schedule? Yes  No  Which years would work?  2028  2029**

## PROJECT INFORMATION (Form 2)

(To be used to assign State Project Number after project is selected.)

Please fill in the following information as it pertains to your proposed project. Items that do not apply to your project, please label N/A. **Do not send this form to the State Aid Office. For project solicitation package only.**

County, City, or Lead Agency \_\_\_\_\_

Functional Class of road \_\_\_\_\_

Road System \_\_\_\_\_ (TH, CSAH, MSAS, County Road, Township Road, City Street)

Name of road \_\_\_\_\_ (Example: 1<sup>st</sup> Street, Main Avenue)

Zip code where the majority of work is being done \_\_\_\_\_

Approximate begin construction date (MO/YR) \_\_\_\_\_

Approximate end construction date (MO/YR) \_\_\_\_\_

Location: From: \_\_\_\_\_

To: \_\_\_\_\_

(Do not include legal description.)

TYPE OF WORK \_\_\_\_\_

\_\_\_\_\_  
(Examples: Grade, Agg Base, Bit Base, Bit Surf, Sidewalk, Curb and Gutter, Storm Sewer, Signals, Lighting, Guardrail, Bike Path, Ped Ramps, Bridge, Park and Ride, etc.)

# HSIP

## *Highway Safety Improvement Program*

For State Fiscal Years 2030 and 2031

### Scoring Guidance for Proactive and Reactive Projects

Minnesota Department of Transportation  
Metro District Traffic Engineering  
September 2025

## **SCORING GUIDANCE FOR PROACTIVE SAFETY PROJECTS:**

### Proactive Project Scoring:

<b>Criteria and Measures</b>	<b>Points</b>	<b>% of Total Points</b>
1. Connection to 2025-29 MN Strategic Highway Safety Plan (SHSP)	100	10%
2. Cost Per User Exposure	300	30%
3. Correctable Fatal and Serious Injury Crash History (10 years, 2015-2024)	100	10%
4. Expected System Risk Reduction in Fatal or Serious Injury Crashes - Crash Reduction Factor	200	20%
5. Connection to Existing Plan	200	20%
6. Improvements for People Outside of Vehicles	100	10%
<b>Total</b>	<b>1,000</b>	<b>100%</b>

1. **Connection to 2025-29 Minnesota Strategic Highway Safety Plan (SHSP) (100 Points)** – The [Minnesota Strategic Highway Safety Plan](#) provides insight and direction on how to reduce traffic-related crashes that involve motor vehicles on Minnesota’s roads. The plan has 20 focus-area priorities and associated strategies identified for Minnesota. This measure rewards project applications that help to further strategies (shown as bullet points below) in this plan. The pertinent infrastructure-based focus areas and strategies include the following:

1. Lane Departure

- Install shoulder and centerline rumble strips
- Install enhanced pavement markings and edge line rumble strips on roads with narrow or no paved shoulders
- Provide buffer space between opposite travel directions
- Provide wider shoulders, enhanced pavement markings and chevrons for high-risk curves
- Eliminate shoulder drop-offs, provide safety edges and widen or pave shoulders

2. Intersections

- Use indirect left-turn treatments and access management to minimize conflicts at divided highway intersections
- Provide dynamic warning signs to alert drivers of conflicts at stop-controlled intersections
- Improve intersection visibility by providing enhanced signing, delineation, and lighting
- Provide roundabouts/J-Turns/median U-Turns at appropriate locations
- Optimize signal operations with phasing, timing, coordination, and clearance intervals
- Supplement conventional red-light running enforcement with traffic signal confirmation lights and other technology enhancements that support enforcement efforts

3. Inattentive Driving

- Install edge and centerline rumble/mumble strips on at-risk rural roads to alert drivers of possible lane departure
- Install lighting at rural intersections to improve visibility of other vehicles and roadway users

4. Speed
  - Install dynamic speed feedback signs at rural/urban transitions, school zones, and work zones
  - Incorporate curbs, medians, lane-narrowing, sidewalks, and other design elements to influence traveled speeds.
5. Pedestrians
  - Strategies aimed specifically at improving safety for pedestrians
6. Bicyclists
  - Strategies aimed specifically at improving safety for bicyclists
7. Trains
  - Strategies aimed specifically at improving safety at train crossings

#### SCORING GUIDANCE

Projects will be awarded between 0 and 5 points based on the ability of the project to implement one or more of the strategies identified in the Minnesota Strategic Highway Safety Plan (SHSP). Applicants could be awarded full points for either proposing a project that strongly advances one of the strategies found in the plan or for a project that implements multiple strategies. These strategies can be identified in related safety plans and studies such as a County/Local Safety Action Plan, SS4A plan, etc. but they need to align with those identified in the SHSP and be HSIP eligible.

Scorers will respond to the following statement:

The project implements one or more of the strategies listed in the Minnesota Strategic Highway Safety Plan.

Strongly disagree: 0 points

Disagree: 1 point

Neutral: 2 points

Slightly Agree: 3 points

Agree: 4 points

Strongly agree: 5 points

2. **Cost Per User Exposure (300 Points)** – This criterion will assess cost effectiveness of the infrastructure being proposed. Each application for a linear project will be scored on its total million vehicle miles (MVM) while each application at an intersection will be scored on its total million entering vehicles (MEV).

LINEAR PROJECTS

- Total project cost:
- Project MVM:
- Cost effectiveness (project MVM/project cost):

INTERSECTION PROJECTS

- Total project cost:
- MEV:
- Cost effectiveness (project MEV/project cost):

**SCORING GUIDANCE**

The linear project application with the highest cost effectiveness will be awarded full points. Other applications will receive a proportionate share of the full points. Similarly, the intersection project with the highest cost effectiveness will be awarded full points with other applicants receiving a proportionate share. For example, if the linear application being scored was 0.089 MVM per cost and the highest-rated project was 0.110 MVM per cost, the application would receive  $(0.089/0.110)*300$  points or 243 points.

Note: Because of the two different scales for linear and intersections, two projects will be awarded the full 300 points.

3. **Correctable Fatal and Serious Injury Crash History (100 Points)** – This criterion measures the history of correctable fatal and serious injury crashes from 2015 to 2024 that have occurred within the limits of the proposed project. Total correctable fatal and serious injury crashes for 2015-2024 will be tallied with each fatal crash being worth two times the number of each serious injury crash.

- Total correctable crashes = 2\* Fatal crashes + Serious Injury crashes

**SCORING GUIDANCE**

Correctable crashes are those that the treatment being proposed is anticipated to mitigate. The applicant with the highest number of fatal and serious injury crashes will receive the full points for the measure. Other projects will receive a proportionate share of the points. For example, if the application being scored had 10 total crashes and the top application had 30 crashes, this application would receive  $(10/30)*100$  points, or 33 points.

4. **Expected System Risk Reduction in Fatal and Serious Injury Crashes – Crash Modification Factor (200 Points)** – This criterion awards points based on the crash modification factor (CMF). Applicants must provide a reasonable CMF via printout from the [Crash Modification Factor Clearinghouse](#).

The score will be based on the aggregate of up to the maximum of two CMFs (see Multiple

Improvement Crash Modification Formula found on Pg 12 of the Program Criteria).

**SCORING GUIDANCE**

The applicant with the greatest crash reduction for the proposed improvement will be awarded full points. Other applications will receive a proportionate share of the full points. For example, if the application being scored has a CMF of 64 (36% reduction) and the highest-rated project has a CMF of 52 (48% reduction), the application would receive  $(36/48) \times 200$  points or 150 points.

5. **Connection to Existing Plan (200 Points)** – The project or the transportation safety problem/need that the project addresses should be in a planning or programming document. Reference the name the appropriate District/County/Local Safety Action Plan, Road Safety Audit, Safe Routes to School plan, corridor study document, or other official plan or program of the applicant agency that the project is included in and/or a transportation safety problem/need that the project addresses. Studies on a trunk highway must be supported by the Minnesota Department of Transportation and the Metropolitan Council. Applicants should include the applicable plan or pages or provide a link to the plan or plan excerpt.

**SCORING GUIDANCE**

Projects will be awarded points as follows:

200 pts – If the safety strategy being employed in the project is specifically listed or addressed in a standalone SAFETY plan such as a District/County/Local Safety Action Plan, Road Safety Audit, Road Safety Analysis, etc. For example, the plan recommends a converting a specific two-way stop intersection to a roundabout.

150 pts – If the project is generally listed or addresses a general transportation need that is included in a standalone SAFETY plan such as a District/County/Local Safety Action Plan, Road Safety Audit, Road Safety Analysis, etc. For example, the plan lists an intersection but lists a variety of countermeasures to address needs.

100 pts – If the project addresses a transportation need that is part of a safety discussion in a larger general plan such as a City Comprehensive Plan, etc. or addresses safety risk factors identified in a plan or identifies strategies that align with the Safe Systems Approach. For example, the plan lists converting two-way stops to roundabouts as a safety strategy but does not specifically call out the project location.

0 pts – the project is not included in a plan or project does not address a safety need identified in a plan.

6. **Improvements for People Outside of Vehicles (100 Points)** – Discuss how the project will improve safety for pedestrians and bicyclists. Include any information available about the location including it being identified in State/District/County/Local pedestrian or bicycle plans or being on an identified route. Any information about pedestrian or bicycle volumes should be provided, if available. Discuss potential pedestrian and bicycle generators that would impact the project area and how the project elements are addressing pedestrian and bicycle issues.

Safety countermeasures for pedestrians can include those identified by the Safe Systems Approach or those identified by FHWA as part of the Safe Transportation for Every Pedestrian program or Proven Safety Countermeasures (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals, etc.). Eligible strategies for bicycles can include those identified by the FHWA Bikeway Selection Guide. Additional information about safety countermeasures can be found in MnDOT’s Best Practices for Pedestrian/Bicycle Safety.

**SCORING GUIDANCE**

The project that will provide the most improvement to pedestrian safety will receive full points. Other projects will receive a portion of the full points at the scorer’s discretion.

100 pts – If the project addresses significant pedestrian or bicycle needs, or is located on a pedestrian or bicycle route, or the specific location is found in a pedestrian or bicycle planning document where it is identified as a need.

50 pts – If the project addresses a pedestrian or bicycle need but the anticipated use is low, or it is not located on/near a pedestrian or bicycle route/generator.

0 pts – If the project is not included in any pedestrian or bicycle plan and does not address pedestrian or bicycle needs. Additionally, if the project addresses a vehicle traffic safety need while potentially making pedestrian or bike safety worse, or will create a barrier to pedestrian or bicycle use, it will receive no points in this category.

**SCORING GUIDANCE FOR REACTIVE SAFETY PROJECTS:**

Reactive Project Scoring:

<b>Criteria and Measures</b>	<b>Points</b>	<b>% of Total Points</b>
1. Benefit/Cost (B/C) Ratio	600	60%
2. Meets Intent of the HSIP Program	200	20%
3. Correctable Fatal and Serious Injury Crash History (10 years, 2015-2024)	100	10%
4. Improvements for People Outside of Vehicles	100	10%
<b>Total</b>	<b>1,000</b>	<b>100%</b>

- 1. **Benefit/Cost Ratio (600 Points)** – Only projects with a B/C ratio of 1.0 or greater can be funded. Projects with a higher B/C ratio will receive more points.

**SCORING GUIDANCE:**

The applicant with highest B/C ratio will receive the full points for the measure. Other projects will receive a proportionate share of the full points. For example, if the application being scored had a B/C ratio of 7.5 and the top project had a B/C ratio of 11.0, this applicant would receive  $(7.5/11.0)*600$  points or 409 points. The scoring committee may reduce the points awarded if the methodology or data provided by the applicant is not reasonable.

- 2. **Meets Intent of the HSIP Program (200 Points)** – Projects will be scored based on their ability to achieve a significant reduction in traffic fatalities and serious injuries on all public roads.

### SCORING GUIDANCE

Projects will be awarded between 0 and 5 points based on the ability of the project to reduce fatal and serious injuries crashes. Scorers will assess the types of crashes that have occurred in the project area and the potential for the proposed solution to reduce the fatal and serious injury crash risk that has been documented.

Scorers will respond to the following statement:

The proposed project meets the intent of the HSIP program.

Strongly disagree: 0 points

Disagree: 1 point

Neutral: 2 points

Slightly Agree: 3 points

Agree: 4 points

Strongly agree: 5 points

Multiple projects can receive 5 points in this scoring measure. Points awarded (0-5) will be multiplied by 40 to get a final score out of 200 points possible.

3. **Correctable Fatal and Serious Injury Crash History (100 Points)** – This criterion measures the history of correctable fatal and serious injury crashes from 2015 to 2024 that have occurred within the limits of the proposed project. Total correctable fatal and serious crashes for 2015-2024 will be tallied with each fatal crash being worth two times the number of each serious injury crash

- Total correctable crashes = 2\* “Fatal” Crashes + “Serious Injury” Crashes

### SCORING GUIDANCE

Correctable crashes are those that the treatment being proposed is anticipated to mitigate. The applicant with the highest number of fatal and serious injury crashes will receive the full points for the measure. Other projects will receive a proportionate share of the points. For example, if the application being scored had 10 total fatal and serious injury crashes and the top application had 30 crashes, this application would receive  $(10/30)*100$  points, or 33 points.

4. **Improvements for People Outside of Vehicles (100 Points)** – Discuss how the project will improve safety for pedestrians and bicyclists. Include any information available about the location including it being identified in State/District/County/Local pedestrian or bicycle plans or being on an identified route. Any information about pedestrian or bicycle volumes should be provided, if available. Discuss potential pedestrian and bicycle generators that would impact the project area and how the project elements are addressing pedestrian and bicycle issues.

Safety countermeasures for pedestrians can include those identified by the Safe Systems Approach or those identified by FHWA as part of the Safe Transportation for Every Pedestrian program or Proven Safety Countermeasures (e.g., pedestrian refuge islands, raised crosswalks, pedestrian hybrid beacons, leading pedestrian intervals, etc.). Eligible strategies for bicycles can include those identified by the FHWA Bikeway Selection Guide. Additional information about safety countermeasures can be found in MnDOT's Best Practices for Pedestrian/Bicycle Safety.

**SCORING GUIDANCE**

The project that will provide the most improvement to pedestrian safety will receive full points. Other projects will receive a portion of the full points at the scorer's discretion.

100 pts – If the project addresses significant pedestrian or bicycle needs, or is located on a pedestrian or bicycle route, or the specific location is found in a pedestrian or bicycle planning document where it is identified as a need.

50 pts – If the project addresses a pedestrian or bicycle need but the anticipated use is low, or it is not located on/near a pedestrian or bicycle pedestrian or bicycle route/generator.

0 pts – If the project is not included in any pedestrian or bicycle plan and does not address pedestrian or bicycle needs. Additionally, if the project addresses a vehicle traffic safety need while potentially making pedestrian or bike safety worse, or will create a barrier to pedestrian or bicycle use, it will receive no points in this category.