

Traffic Safety Improvement Program

Applications for STUDIES, RESEARCH, PUBLIC INFORMATION INITIATIVES FY 2017



Received August 15, 2015

**STUDIES, RESEARCH, PUBLIC INFORMATION INITIATIVES
FY 2017**

Page No.	Applicant	Title/Subject	\$\$\$	
			Project	Request
3	Iowa DOT	Work Zone Safety Training	\$100,000	\$25,000
6	Iowa DOT	Safety Vests for Emergency Personnel	\$25,000	\$25,000
9	Iowa DOT	Local Technical Assistance Program (LTAP)	\$155,000	\$95,000
13	Iowa DOT	Pedestrian Warning System	\$75,000	\$75,000
16	Iowa DOT	Rail Crossing Safety Educational Support	\$45,000	\$15,000
21	Iowa DOT	Motorcycle Safety Programs	\$75,000	\$75,000
24	Iowa DOT	Traffic Safety Training, Conferences, & Peer Exchange	\$75,000	\$75,000
28	Iowa DOT	Traffic Sign Life Expectancy	\$40,000	\$40,000
31	Iowa DOT	Iowa LTAP Work Zone Sign Package Program	\$50,000	\$50,000
34	Iowa DOT	Expanding the Usage of 4- to 3-Lane Conversions	\$75,000	\$75,000
37	Iowa DOT	Destination Lighting - Specifications and Best Practices	\$25,000	\$25,000
40	City of Waterloo	Traffic Safety Awareness: Children Online Traffic Safety Quiz	\$8,500	\$8,500
44	City of Waterloo	Traffic Safety Awareness: Elementary School Outreach	\$11,000	\$11,000
	Totals	13 Projects	\$ 759,500	\$ 594,500



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

 DATE: 6/16/15

 Location / Title of Project Work Zone Safety Training

 Applicant Iowa DOT - Office of Traffic and Safety

 Contact Person Steven Schroder Title Transporation Engineer

 Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

 Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
 (Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

 Complete Mailing Address _____

 Phone _____ E-Mail _____
 (Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:
Application Type

 Site Specific
 Traffic Control Device
 Safety Study
Funding Amount

 Total Project Cost \$ 100,000

 Safety Funds Requested \$ 25,000

- A. Not applicable
- B. The Iowa DOT supports an ongoing program for training city, county, state, contractor, and utility personnel in traffic control within work zones. Motor vehicle crashes in work zones continue to kill and injure motorists and workers each year. Despite the hundreds of workers trained yearly (approximately 850 in 2015), many road workers have yet to be reached with training in basic work zone safety.

Some localities send several staff members each year and thus maintain an adequate training level over time. Other localities participate irregularly or not at all. Efforts are made to reach all Iowans who work on or adjacent to the roadway to insure that they understand proper traffic control methods required by law, according to the Manual on Uniform Traffic Control Devices, Part VI.

Objectives:

- To conduct approximately 10 day-long workshops at locations across Iowa to accommodate at least 800 participants
 - To have instruction tailored to city, county, contractor, utility, and Iowa DOT personnel
 - To retain consultant services for the primary trainer
 - To develop local personnel to assist in training
 - Partial funding of registration fees – this funding will help to keep the registration fee as low as possible for those attending the training
- C. The estimated cost of this project is \$25,000 for training in the winter of 2016-17.
- D. The anticipated time schedule for this project is for training for the winter of 2016-17.



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 7/15/15

Location / Title of Project Safety Vests for Emergency Personnel

Applicant Iowa DOT - Office of Traffic and Safety

Contact Person Steven Schroder Title Transportation Engineer

Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type
Site Specific
Traffic Control Device
Safety Study

Funding Amount

Total Project Cost \$ 25,000

Safety Funds Requested \$ 25,000

- A. Not applicable
- B. Safety vests allow the traveling public to see workers on the roadway more easily by making them more visible. This includes everyone from construction workers to emergency personnel such as firefighters, police officers, and emergency technicians. While most construction workers are aware of the benefits and requirements of safety vests, emergency personnel are not always aware of these requirements.

As emergency personnel may not have the funds to purchase and wear the most up to date safety vests which provide good conspicuity, this program will help to provide them with safety vests at no cost. Safety vests will be purchased which agencies can request at no cost for emergency personnel to wear while helping with traffic control.

- C. These funds would purchase retro reflective safety vests, pants, and hats for emergency personnel to wear while working on public roads.
- D. There is no application deadline. Agencies may request vests on a first come first serve basis.

Applicant

Steven Schroder
Iowa DOT, Office of Traffic & Safety



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 8/6/15

Location / Title of Project Local Technical Assistance Program (LTAP)

Applicant Iowa DOT - Office of Traffic and Safety

Contact Person Steven Schroder Title Transportation Engineer

Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

- Site Specific
- Traffic Control Device
- Safety Study

Funding Amount

Total Project Cost \$ 155,000

Safety Funds Requested \$ 95,000

- A. Not applicable
- B. This application is for programs funded through the Local Technical Assistance Program (LTAP). These funds will primarily be used for the Local Roads Safety Liaison and Safety Circuit Rider.

Local Roads Safety Liaison Program

The Local Roads Safety Liaison Program commenced in March of 2008 as a new outreach to local governments (primarily counties) under the TSIP funded programs of the Iowa Department of Transportation. Although started as a tool to get DOT provided safety program information and assistance to county engineering offices that had not been active in safety, the program has expanded to provide more training coordination and grant program assistance to both cities and counties. This continues to be accomplished for them through personal on site consultations, assistance with grant awareness and applications, training at fall safety schools, presentations to county engineer groups, league of cities members, multi-disciplinary safety teams (MDST), and Regional Planning Associations (RPAs). These associations have helped build and strengthen the safety community locally and regionally. Budgetary struggles continue for local entities and most do not have the staff and/or time available to permit attending the formal training opportunities, or to perform the necessary analysis to identify traffic safety concerns. The Local Roads Safety Liaison Program can continue to fill that gap.

Recommendations:

- Continue to work with Safety Circuit Rider, ITSDS, state MDST, DOT Safety staff, and training personnel to provide appropriate topics, crash maps, contacts, and requested safety analysis.
- Continue to attend meetings of regional MDST groups, RPAs, cities and counties, and DOT staff to keep current with safety related information and issues, as well as current research projects and studies, to provide a knowledge base which can be shared with other safety partners
- Continue to provide specific new safety research information to local agencies – i.e. safety edge experience, crash rates on low volume unpaved roads are significantly higher on >100 ADT than <100 ADT, etc.
- Continue to provide detailed analysis of traffic related crashes to local agencies when requested, using traffic studies and crash analysis tools, and identify alternate safety improvements to provide mitigation
- Continue to assist counties with road safety audits where requested
- Provide assistance and information to promote and enhance the formation and active participation of area agencies in multidisciplinary groups
- Investigate adopting a Minnesota type program for individual county safety reviews and program development. Assist local agencies in developing an overall traffic safety program
- Continue to provide current and timely information and assistance to those local agencies that rely on this form of presentation to keep the safety message heard

Assistance from a professional engineer, working approximately 65 hours per month, is anticipated to carry out these tasks. Continued coordinated work with DOT and

InTrans staff, along with various safety interest groups and trainers could be continued and program growth expanded to areas including cities and RPAs. Developing associations with those officials and other contacts around the state will definitely promote the ongoing development of a safety culture in Iowa.

Safety Circuit Rider

The Safety Circuit Rider program was created about 20 years ago as a strategy to bring safety training to local government agency personnel at their own place of work. Often, local governments are short on funds for training and find it difficult to send all personnel in need of specific training long distances. This is especially true for flagging, by far the most popular program the Safety Circuit Rider offers. The Safety Circuit Rider program was established as a part of the Local Transportation Assistance Program residing within the Center for Transportation Research and Education, Iowa State University, Ames.

The Safety Circuit Rider program was established by a coalition including the Iowa DOT, Governor's Traffic Safety Bureau, Federal Highway Administration, and the Center for Transportation Research and Education, Iowa State University. In addition to flagger training, the program also deals with general work zone safety and the annual winter day-long work zone safety training program held at numerous field locations across Iowa. The Safety Circuit Rider assists in planning and executing the DOT's winter work zone training program for city, county, state, contractor, and utility personnel. Crash analysis, low cost safety improvements, sign management, inventory, and other miscellaneous topics fill in the comprehensive program.

The program currently receives \$60,000 annually in Section 402 Highway Safety funds from the Governor's Traffic Safety Bureau. Over time the program has expanded and requires a budget substantially greater than that. The funds being requested from the TSIP will help the program meet the safety training needs of Iowa's roadway workers in the future. Iowa's safety program of outreach to local jurisdictions is nationally recognized, and has been awarded the FHWA/RSA award for local programs.

- C. A funding level of \$65,000 through TSIP would fund the Local Roads Safety Liaison Program for calendar year 2018. A funding level of \$30,000 would fund the Safety Circuit Rider program for calendar year 2018.
- D. The anticipated time schedule for this project is for calendar year 2018 for both the Local Roads Safety Liaison Program and the Safety Circuit Rider Program.



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 8/6/15

Location / Title of Project Pedestrian Warning System

Applicant Iowa Department of Transportation

Contact Person Steven Schroder Title Transportation Engineer

Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

- Site Specific
- Traffic Control Device
- Safety Study

Funding Amount

Total Project Cost \$ 75,000

Safety Funds Requested \$ 75,000

The intent of this request is to coordinate and work with the Governor's Traffic Safety Bureau (GTSB) to identify good locations where Pedestrian Warning Systems could be installed to help reduce the number of pedestrian fatalities. The effort would include working with the cities with the highest historical pedestrian fatalities to consider installation of active pedestrian warning signs such as the Rectangular Rapid Flashing Beacon (RRFB).



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 8/11/15

Location / Title of Project Rail Crossing Safety Educational Support

Applicant Iowa DOT Office of Rail Transportation

Contact Person Phillip Meraz Title Regulation and Analysis Project Coordinator

Complete Mailing Address Iowa Department of Transportation; Office of Rail Transportation

800 Lincoln Way, Ames IA 50010

Phone (515)239-1420 E-Mail phillip.meraz@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type Site Specific
Traffic Control Device
Safety Study

Funding Amount

Total Project Cost \$ \$45,000

Safety Funds Requested \$ \$15,000

APPLICATION CERTIFICATION FOR LOCAL GOVERNMENT

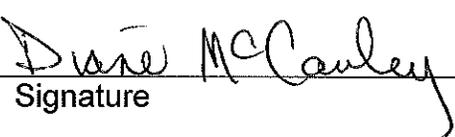
To the best of my knowledge and belief, all information included in this application is true and accurate, including the commitment of all physical and financial resources. This application has been duly authorized by the participating local government(s). I understand the attached resolution(s) binds the participating local government(s) to assume responsibility if any additional funds are committed, and to ensure maintenance of any new or improved city streets or secondary roads.

I understand that, although this information is sufficient to secure a commitment of funds, a firm contract between the applicant and the Department of Transportation is required prior to the authorization of funds.

Representing the Iowa Department of Transportation; Office of Rail Transportation

Signed:  8/11/2015
Signature Date Signed

Phillip Meraz
Typed Name

Attest:  8/11/2015
Signature Date Signed

Diane McCauley
Typed Name

A

In 2010, the Federal Railroad Administration (FRA) identified Iowa to be among the top ten states for the number of railroad crossing collisions. Due to this fact, federal legislation 49 CFR Part 234, mandated that the state of Iowa research and create a railroad crossing safety action plan. The plan prepared by the department's Office of Rail Transportation was approved the FRA in 2012 and can be found at: <http://www.iowadot.gov/iowarail/pdfs/Action%20Plan%20-%20FRA%20rewrite%20submittal.pdf>

B

The State of Iowa Highway-Rail Grade Crossing Safety Action Plan recognizes "education as one of the four action categories. The main component of the department's educational effort is a working partnership with Iowa Operation Lifesaver (OL), a nonprofit education and awareness program dedicated to ending tragic collisions, fatalities, and injuries at highway-rail grade crossings and on railroad right-of-way.

Historically, OL has conducted free presentations for small groups such as Driver's Education classes and civic organizations. These programs, conducted by certified volunteers, are the "public face" for railroad crossing safety and an integral part of the educational efforts in Iowa. However, the majority of the funding is used for presentation materials and handouts leaving inadequate resources for advertising and building their programs.

To broaden the reach of their message, the OL board has changed their approach to add a focus for large venues such as the Iowa State Fair and the Farm Progress Show as well as social media. Using this strategy they have drastically increased the number of people contacted from thousands to tens of thousands. These more informal educational contacts have also increased the number of formal small group program opportunities. Because of the implementation of other actions items the reduction of deaths that can be attributed to these programs is not easily quantifiable. However, OL is accepted by the FRA as a *significant* contributing factor for the downward trend in rail crossing collisions over the past 30 years.

The objective for the use of this requested funding is to better support the department's partnership with OL by:

- Purchasing needed presentation materials and equipment for dozens of volunteers
- Providing vendor fees for large scale events
- Increasing their visibility and social media campaign
- Funding community "blitzes" in areas that are demonstrating high-risk driving behavior or have imminent community events near railroad right-of-way

It is anticipated that continuing these educational initiatives will increase the percentage of Iowans being educated and raise awareness of the safety issues at railroad crossings.

Railroad Crossing Safety Educational Support

C

As a nonprofit organization, the amount of funding currently being used for OL operations changes from year to year. All funding comes from contributions. Last year's funding amounted to:

\$28,000	Provided by a \$7/crossing request from the railroads operating in Iowa
\$2,000	Provided by the Iowa Association of Railroad Passengers
\$15,000	Provided by Iowa DOT TSIP for FY2015 (\$0 were provided for FY 2016)
<u>\$0</u>	The National OL organization no longer contributes to the states due to federal cutbacks
\$45,000	

Without the Iowa TSIP support, the typical contributions amount to \$30,000

These funds have been used for operations, displays, and materials for presentations by volunteer labor in an organization with one staff member employed one-quarter time. Maintaining the new strategy bulleted above may realize economic difficulty in FY2016 due to the lack of Iowa DOT support. The estimated costs for usage of the requested funds are:

\$5,000	Presentation material and equipment
\$5,000	Vendor fees
\$500	Social media
<u>\$4,500</u>	Marketing and transportation costs for community blitzes
\$15,000	

D

These funds will be used throughout a 12 month period beginning July 1, 2016 and ending June 30, 2017.

Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

Location / Title of Project Motorcycle Safety ProgramsApplicant Iowa DOT, Office of Traffic & SafetyContact Person Steven Schroder Title Traffic Safety EngineerComplete Mailing Address 800 Lincoln Way
Ames, IA 50010Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____
_____Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

Site Specific
Traffic Control Device
Safety Study

Funding Amount

Total Project Cost \$ 75,000Safety Funds Requested \$ 75,000

- A. Not applicable
- B. The Iowa DOT hosts a Motorcycle Safety Forum (MSF) every spring jointly funded by the Iowa DOT and Governor's Traffic Safety Bureau (GTSB). The portion of funding from GTSB has dropped in recent years. One aspect of the forum used to be coupons for people who wanted to take a certified motorcycle safety course. This was discontinued in 2013 because of lack of funding.

The funds applied for here would be used to continue to support the Motorcycle Safety Forum and to reintroduce the program of offering coupons for certified Motorcycle Safety Courses. Participants use the coupons as payment for the course, and the presenters offering the course then request payment from the Iowa DOT.

The courses range in cost from about \$130-\$200 and about 600 people attended the 2014 MSF. While this funding level would not allow for all MSF attendees to have a coupon, those that typically attend the Motorcycle Safety Courses are new riders and those that want a refresher course on riding a motorcycle.

- C. The \$75,000 will be used to fund the forum and to offer coupons for Motorcycle Safety Courses that will be handed out at the 2017 MSF. Any remaining coupons or funds will be carried over for the 2018 MSF. Additional funding for the Motorcycle Safety Forum comes from Iowa DOT SMS funds and GTSB funds.
- D. The Motorcycle Safety Forum will take place in spring 2017. Coupons to be handed out may be redeemed for motorcycle safety courses.

Applicant

Steven Schroder
Iowa DOT, Office of Traffic & Safety

Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

Location / Title of Project Traffic Safety Training, Conferences, & Peer ExchangeApplicant Iowa DOT, Office of Traffic & SafetyContact Person Jan Laaser-Webb Title State Safety EngineerComplete Mailing Address 800 Lincoln Way
Ames, IowaPhone 515-239-1349 E-Mail jan.laaser-webb@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____
_____Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

Site Specific
Traffic Control Device
Safety Study

Funding Amount

Total Project Cost \$ 75,000Safety Funds Requested \$ 75,000

APPLICATION CERTIFICATION FOR LOCAL GOVERNMENT

To the best of my knowledge and belief, all information included in this application is true and accurate, including the commitment of all physical and financial resources. This application has been duly authorized by the participating local government(s). I understand the attached resolution(s) binds the participating local government(s) to assume responsibility if any additional funds are committed, and to ensure maintenance of any new or improved city streets or secondary roads.

I understand that, although this information is sufficient to secure a commitment of funds, a firm contract between the applicant and the Department of Transportation is required prior to the authorization of funds.

Representing the _____

Signed: _____

Signature

Date Signed

Jan Laaser-Webb August 12, 2015

Typed Name

Attest: _____

Signature

Date Signed

Typed Name

Title: Traffic and Safety Forum, Training, Peer Exchange

Background:

The Iowa DOT requires staff to be involved in traffic and safety engineering decisions as part of the project development process. Management has requested training and peer exchange opportunities to enhance traffic/safety knowledge and capability.

Project:

The objective of this project is to provide up to date traffic safety resources, tools and training for Iowa's state and local engineers, and to foster sharing of knowledge and best practices among transportation safety professionals.

Activities may include hosting conferences or events, sponsoring attendance to such events, or sponsoring training programs.

Cost:

\$75,000

Schedule:

Funds to be used in FY 2017



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 8/12/15

Location / Title of Project Traffic Sign Life Expectancy

Applicant Iowa DOT - Office of Traffic and Safety

Contact Person Steven Schroder Title Transportation Engineer

Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

- Site Specific
- Traffic Control Device
- Safety Study

Funding Amount

Total Project Cost \$ 40,000

Safety Funds Requested \$ 40,000

- A. Not applicable
- B. Traffic signs are a critical component in providing drivers with guidance along roadways. They also represent a significant maintenance and replacement function and cost for agencies, particularly at the local level. At present, there is only a limited understanding of the service life of signage in the field (largely based on manufacturer guidance as opposed to field data and experience). Yet knowing how long a sign will actually maintain adequate retroreflectivity or remain in acceptable condition is essential in avoiding unnecessary maintenance or replacement costs. There is local field data that has been collected as part of sign inventorying and retroreflectivity monitoring that is proposed for analysis and investigation. This work could provide useful information to local agencies and could be built upon as evaluations of expected sign life is considered more closely in the coming years. This would assist local agencies in the management of their existing signage as well as in planning and budgeting for maintenance and replacement over time.
- C. Cost - \$40,000
- D. Funds to be expended within 1 year of Notice to Proceed.



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 8/12/15

Location / Title of Project Iowa LTAP Work Zone Sign Package Program

Applicant Iowa DOT - Office of Traffic and Safety

Contact Person Steven Schroder Title Transportation Engineer

Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

Phone 515-239-1623 E-Mail steven.schroder@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

- Site Specific
- Traffic Control Device
- Safety Study

Funding Amount

Total Project Cost \$ 50,000

Safety Funds Requested \$ 50,000

- A. Not applicable
- B. The “Iowa LTAP Work Zone Sign Package Program” would help municipalities make their work zones safer for motorists, pedestrians and workers by providing them with a basic work zone safety sign package. The target population for cities to be eligible for the program would be those with less than 10,000 residents. The cities interested in participating in the program would submit an application to the Iowa Local Technical Assistance Program (LTAP) and approximately 10 winners would be selected each year based on the demonstrated need of temporary traffic control devices, their commitment to work zone safety and attendance at an Iowa DOT Work Zone Safety Workshop. Additional criteria to be considered when determining winners may also include, Flagger Training workshop attendance, Iowa LTAP Roads Scholar Program participation and other safety related workshop attendance.

The sign package could include:

- 2 Flagger Ahead Signs
- 2 One Lane Road Ahead Signs
- 4 Road Work Ahead Signs
- 2 Be Prepared to Stop Signs
- 6 Type II Barricades
- 16 28” Traffic Cones
- 4 Class 2 Safety Vests
- 6 Sign Stands
- 4 Traffic Drums with Bases
- 2 24” Stop/Slow Paddles

- C. Cost - \$50,000
- D. Funds to be used in FY '17.



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: 8/13/15

Location / Title of Project Expanding the Usage of 4- to 3-Lane Conversions in Iowa

Applicant Iowa DOT Office of Traffic and Safety

Contact Person Chris Poole Title Safety Programs Engineer

Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

Phone (515) 239-1267 E-Mail chris.poole@dot.iowa.gov
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type
Site Specific
Traffic Control Device
Safety Study

Funding Amount

Total Project Cost \$ 75,000

Safety Funds Requested \$ 75,000

A. Application Certification: Not applicable

B. Narrative:

This project would provide strategies and guidance for expanding the usage of 4- to 3-lane conversions in Iowa. These improvements, also called lane reductions or “road diets,” are an FHWA proven safety countermeasure. Conversions have been taking place in Iowa for dozens of years, but at a slow pace. Many sites around the state still exist with lower-volume, 4-lane undivided cross sections that could benefit from a reduction to 3 lanes, and the improved operation and safety benefits it provides.

Project tasks may include conducting a relevant literature review, documenting the performance of past conversions, and establishing an inventory of potential conversion sites. Ultimately, the goal of the project could be realized by updating the 2001 Iowa guidelines, developing a training course for DOT district and local agency personnel, creating a promotional brochure and public awareness campaign, and/or providing a prioritized list of candidate locations.

C. Estimated Cost: \$75,000

D. Project Schedule: July 1, 2016 through June 30, 2017



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

 DATE: 8/13/15

 Location / Title of Project Destination Lighting – Specifications and Best Practices

 Applicant Iowa DOT Office of Traffic and Safety

 Contact Person Chris Poole Title Safety Programs Engineer

 Complete Mailing Address 800 Lincoln Way
Ames, IA 50010

 Phone (515) 239-1267

(Area Code)

 E-Mail chris.poole@dot.iowa.gov

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____

(Area Code)

E-Mail _____

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:
Application Type

 Site Specific
 Traffic Control Device
 Safety Study
Funding Amount

 Total Project Cost \$ 25,000

 Safety Funds Requested \$ 25,000

A. Application Certification: Not applicable

B. Narrative:

The addition of a destination light at rural intersections provides a desirable safety and operational improvement. However, installation specifics vary widely across the state including: type and wattage of light, location of light within the intersection, and use of an existing pole or placement of a new pole. Additionally, the utilization of LED technology offers significant cost savings, however the conspicuity of LED luminaires is drastically reduced compared to conventional drop-lens HID luminaires, especially at the greater distances necessary to realize the full benefit of destination lighting.

The goal of this project is to develop a best practices guide for destination lighting in Iowa. The guide should provide, at a minimum, recommendations on luminaire type and design, placement within the intersection, and whether an existing power pole can be utilized. The guide should also include a sample specification for destination lighting that can be used by highway agencies and power companies.

Project work will include reviewing commercially available LED luminaire designs and evaluating their potential conspicuity. If existing designs are deemed to be insufficient, it is expected that the researcher will work with several luminaire manufacturers to suggest and/or develop modifications, such as incorporation of a drop-lens refractor, in order to improve conspicuity of the design.

C. Estimated Cost: \$25,000

D. Project Schedule: July 1, 2016 through June 30, 2017



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

DATE: Aug 14, 2015

Location / Title of Project Traffic Safety Awareness: Children Online Traffic Safety Quiz

Applicant City of Waterloo

Contact Person Mohammad Elahi Title Traffic Engineer

Complete Mailing Address 625 Glenwood Street
Waterloo, Iowa 50703

Phone (319) 291-4440 E-Mail mohammad.elahi@waterloo-ia.org
(Area Code)

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____ E-Mail _____
(Area Code)

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

- Site Specific
- Traffic Control Device
- Safety Study

Funding Amount

Total Project Cost \$ 8,500

Safety Funds Requested \$ 8,500

APPLICATION CERTIFICATION FOR LOCAL GOVERNMENT

To the best of my knowledge and belief, all information included in this application is true and accurate, including the commitment of all physical and financial resources. This application has been duly authorized by the participating local government(s). I understand the attached resolution(s) binds the participating local government(s) to assume responsibility if any additional funds are committed, and to ensure maintenance of any new or improved city streets or secondary roads.

I understand that, although this information is sufficient to secure a commitment of funds, a firm contract between the applicant and the Department of Transportation is required prior to the authorization of funds.

Representing the City of Waterloo

Signed: Mohammad Elzhi Aug 17-2015
Signature Date Signed

Mohammad Elzhi
Typed Name

Attest: Susan C. Holmes 08/17/15
Signature Date Signed

Susan C. Holmes
Typed Name

Traffic Safety Awareness: Children Online Traffic Safety Quiz

Early childhood encounters with traffic safety issues produces long-term benefits and affect their adulthood driving behavior. This is 1 of 2 independent and separate but related campaigns. The other one is the Elementary School Outreach. The goal is to make children aware of traffic safety. The campaigns will be specially tailored for children from content to messaging.

Online Children Traffic Safety Contest

A ten question quiz will be designed. Children ages 7-11 can take the quiz once every month. Questions will be simple and correct answers will be displayed. Children will be given a chance to answer the correct choice. School support and coordination will be obtained. Material will be distributed to teachers who will encourage the children to take the quiz. A public relations agency will be hired to conduct parts of the proposed campaign. Some of the main tasks will involve:

- 1) Producing messages readily understood by elementary school children ages 7-11.
- 2) Recruitment and procurement of prizes.
- 3) Developing the messages into multiple answer, non-confusing questions.
- 4) Coordinating with legal departments to make sure children's privacy and families' rights are protected.
- 5) Modifying the computer code for the online Quiz.
- 6) Coordinate with the school district's IT Department to host the quiz, test run it, and eventually go live. Currently they are hosting our drivesafecv.org.
- 7) Coordinate with Waterloo and Cedar Falls school districts for the contest.
- 8) Develop writings to be distributed, that meets school's approval, throughout schools regarding the quiz.
- 9) Information to parents' translations into Spanish and Bosnian will be by the Waterloo School District.
- 10) Hosting a database and analyze the quiz results and run data base query each month and report the results to the City.

The Agency will mainly help in the following areas:

- a. Creative Development and Design,
- b. Copywriting Introduction,
- c. 10 Questions,
- d. Programming,
- e. Database Set-Up
- f. Press Release Writing,
- g. Pitching to Local Media,
- h. Writing Letter To Schools, Recruitment and/or Procurement of Prizes
- i. Coordination with Schools
- j. Printing of Handout about the Online Safety Quiz for Waterloo, Cedar Falls, and Evansdale School Districts

Estimated cost is \$8,500.

Start time depends on time of agreement exchange with the Iowa DOT. If agreement is exchanged earlier the campaign can run the full school year.

Agreement Exchange: August 2016

Develop, Setup and Test the Online Quiz: September - November 2016

Run the Quiz Campaign: November - May 2016



Application for TRAFFIC SAFETY FUNDS

GENERAL INFORMATION

 DATE: Aug 14, 2015

 Location / Title of Project Traffic Safety Awareness: Elementary School Outreach

 Applicant City of Waterloo

 Contact Person Mohammad Elahi Title Traffic Engineer

 Complete Mailing Address 625 Glenwood Street
Waterloo, Iowa 50703

 Phone (319) 291-4440

(Area Code)

 E-Mail mohammad.elahi@waterloo-ia.org

If more than one highway authority is involved in this project, please indicate and fill in the information below (use additional sheets if necessary).

Co-Applicant(s) _____

Contact Person _____ Title _____

Complete Mailing Address _____

Phone _____

(Area Code)

E-Mail _____

PLEASE COMPLETE THE FOLLOWING PROJECT INFORMATION:

Application Type

Site Specific	<input type="checkbox"/>
Traffic Control Device	<input type="checkbox"/>
Safety Study	<input checked="" type="checkbox"/>

Funding Amount

 Total Project Cost \$ 11,000

 Safety Funds Requested \$ 11,000

APPLICATION CERTIFICATION FOR LOCAL GOVERNMENT

To the best of my knowledge and belief, all information included in this application is true and accurate, including the commitment of all physical and financial resources. This application has been duly authorized by the participating local government(s). I understand the attached resolution(s) binds the participating local government(s) to assume responsibility if any additional funds are committed, and to ensure maintenance of any new or improved city streets or secondary roads.

I understand that, although this information is sufficient to secure a commitment of funds, a firm contract between the applicant and the Department of Transportation is required prior to the authorization of funds.

Representing the City of Waterloo

Signed: Mohammad Elahi Aug 17, 2015
Signature Date Signed

Mohammad Elahi
Typed Name

Attest: Susan C. Holmes 08/17/15
Signature Date Signed

Susan C. Holmes
Typed Name

Traffic Safety Awareness: Elementary School Outreach

Early childhood encounters with traffic safety issues produces long-term benefits and affect their adulthood driving behavior. This is 1 of 2 independent and separate but related campaigns. The other one is the Children Online Traffic Safety Quiz. The goal is to make children aware of traffic safety. The campaigns will be specially tailored for children from content to messaging.

Elementary School Outreach Program

Public safety officers will visit elementary schools. Officers will visit the classrooms and discuss traffic safety skills. So far full support of Waterloo and Evansdale Police Departments and the Waterloo School District is expected. Waterloo School District covers Evansdale. Cedar Falls Police Department and School District will be contacted as well. The Governor's Traffic Safety bureau has indicated their support. They will contribute some material particularly their activity booklet which is suitable for the first graders. A public relations agency will be hired. The mail tasks would be:

- 1) Developing and printing a children activity booklet to be distributed by the officers.
- 2) Designing and procuring small traffic safety reminder items or novelty items such as colored pencils to be distributed by the officers.
- 3) Recruitment of Police, Fire or other volunteers to speak at primary schools.
- 4) Scheduling with schools.
- 5) Presentation development and planning
- 6) Media relations support.
- 7) Writing and releasing a press release.
- 8) Prepare writings for social media.

Estimated cost is \$11,000.

Start time depends on time of agreement exchange with the Iowa DOT.

Agreement Exchange: August 2016

Design and Print of booklets and small safety reminder items September - December 2016

Material Preparation and Coordination with the Involved Parties: December - March 2016

School Outreach: March - May 2016