TEXAS

HIGHWAY SAFETY IMPROVEMENT PROGRAM

2024 ANNUAL REPORT

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Photo source: Federal Highway Administration

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Disclaimer

Protection of Data from Discovery Admission into Evidence

23 U.S.C. 148(h)(4) states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for any purpose relating to this section[HSIP], shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location identified or addressed in the reports, surveys, schedules, lists, or other data.”

23 U.S.C. 407 states “Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.”

Executive Summary

During the 2024 State Fiscal Year, The Texas Department of Transportation (TxDOT) let 363 projects totaling approximately $393.5M through the HSIP, and another $8.6M through our State Systemic Widening effort. This is in addition to the systemic and targeted (hot spot) safety improvements that are incorporated into every construction or maintenance project, a focus of our Design and Construction divisions. This significant increase in HSIP letting was a result of the “Rack ‘em & Stack ‘em” efforts of TxDOT’s leadership, accelerating Safety projects from future years’ programming to use each month’s maximum letting capacity.

The 2024 fiscal year saw several changes at TxDOT. We’ve added new perspectives with a new Lead Engineer, with extensive experience in the Design division, as well as adding four new staff members. As a result, TxDOT’s Traffic Safety Division (TRF) is continuing to make improvements in our coordination with other internal divisions, like Design & Construction, to bring our policies and timelines into better alignment with the Unified Transportation Plan (UTP) and pursue research opportunities related to new safety countermeasures as well as reviewing our existing safety scoring systems.

We continue to see the benefits of our 2020 effort to eliminate the competitive element from our project selection process. District partners now have clear expectations of how much they are expected to let through our program, a dashboard showing their existing and expected program amounts, and better visibility into their crash data through our Tableau dashboards from the Crash Data and Analysis (CDA) section and introduction of AASHTOWare Safety© software Statewide.

The Safety Engineering team works closely with District engineering and planning teams to coordinate letting dates, provide crash data, and evaluate project submissions, as well as with our finance division to meet targets like our VRU & HRRR minimum letting amount. The team is also available to answer questions for Federal, State, and Local & Regional partners.

HSIP projects provide both targeted and systemic engineering solutions to crashes related to the Emphasis Areas in the 2022-2027 SHSP. The plan lists eight emphasis areas which have the greatest potential for reducing fatalities and injuries – we’re continuing to focus on roadway and lane departures, speed related, intersection safety, occupant protection, impaired driving, and distracted driving, and we have identified numerous opportunities to improve safety for vulnerable road users and post-crash care efforts.

TxDOT remains committed to our stated Road to Zero goals – zero fatalities on our roadways by 2050, and reduced 50% by 2035.

Introduction

The Highway Safety Improvement Program (HSIP) is a core Federal-aid program with the purpose of achieving a significant reduction in fatalities and serious injuries on all public roads. As per 23 U.S.C. 148(h) and 23 CFR 924.15, States are required to report annually on the progress being made to advance HSIP implementation and evaluation efforts. The format of this report is consistent with the HSIP Reporting Guidance dated December 29, 2016 and consists of five sections: program structure, progress in implementing highway safety improvement projects, progress in achieving safety outcomes and performance targets, effectiveness of the improvements and compliance assessment.

Program Structure

Program Administration

Describe the general structure of the HSIP in the State.

The HSIP is administered by the Texas Department of Transportation, Traffic Safety Division (TRF). The Safety Engineering branch of Traffic Engineering within TRF issues a statewide program call for highway safety projects to all 25 TxDOT districts, who share that program call with their local partners. Projects funded in the HSIP are limited to improvements that address the serious crash types identified in the most current SHSP.

These projects may range from spot-safety improvements and upgrading of existing conditions to new roadway construction. Typically, highway safety projects are small in scope, low in cost, and can be let to contract within 3-4 years.

When a call for projects is issued, TRF provides each district with both on- and off-system crash data that can be used to identify potential project locations and to develop project proposals. District personnel work with Area Offices, Local Governments, Tribal entities, and MPO’s to determine appropriate countermeasures and timeframe, then districts submit all project proposals to TRF.

All eligible proposals are subjected to a benefit/cost analysis. The formula currently used for this purpose is the Safety Improvement Index (SII).

In its most basic form, the SII is the ratio of the annual savings in preventable crash costs that have occurred at a location to the cost of constructing the proposed improvement. The SII incorporates adjustments to provide additional benefit for:

· Locations experiencing increasing traffic over the project life,

· Improvements that will reduce maintenance cost, and,

· Projects expected to have long service lives over which construction costs can be amortized.

Beginning with State fiscal year 2022, the new HSIP process removed statewide prioritization in favor of district expertise. Each district determines their top priority safety projects based on district crash data, benefit/cost (SII), or systemic projects applicable to their top focus emphasis areas. The Traffic Safety Division supports this effort with extensive crash data analysis tools.

Where is HSIP staff located within the State DOT?

Operations

How are HSIP funds allocated in a State?

- Formula via Districts/Regions

Describe how local and tribal roads are addressed as part of HSIP.

TxDOT offices notify stakeholders in their districts when a call for project proposals has been issued. Local and tribal entities submit their proposals to their TxDOT district office for submission to TRF-TE-Safety@txdot.gov (shared team inbox). Local and tribal roads are evaluated separately from on-system proposals but using the same rules, guidelines, and requirements. TxDOT has set aside approximately 10% of HSIP funding for the improvement of local road safety.

Identify which internal partners (e.g., State departments of transportation (DOTs) Bureaus, Divisions) are involved with HSIP planning.

- Design
- Districts/Regions
- Operations
- Planning
- Traffic Engineering/Safety

Describe coordination with internal partners.

TRF (Traffic Engineering/Safety)

· Using the most current Strategic Highway Safety Plan (SHSP), the Safety Engineering team identifies program safety emphasis areas, scopes of work to be funded through that call, and applicable ranking measures for each scope of work.

· The Safety Engineering team provides crash data, particularly hot spots and emphasis area trends, and funding guidance to the district HSIP teams.

District (Design/Operations):

· Weighs crash data, historic areas of complaint, maintenance histories, and Stakeholder input, then select projects to submit to TRF for consensus. Districts also evaluate whether projects are feasible and verify that appropriate countermeasures addressing the location's safety needs have not already been addressed or scheduled for construction through other means.

· Works with area offices and local governments to gather additional location information and to identify any potential locations that may have been excluded due to incomplete or inaccurate crash and/or roadway data.

· Completes and submits projects containing requested data to TxDOT’s Traffic Safety Division (TRF) along with necessary backup data (typical sections, layouts, detailed estimates, etc.) in response to the program call.

· Prior to submission, the district teams should conduct a current field evaluation to determine the appropriate countermeasures and develop a detailed estimate.

TRF (Traffic Engineering/Safety):

· Analyzes the proposed highway safety projects for HSIP eligibility, data accuracy, and conformance to design standards.

· Meets with each district to review the list of submitted projects.

· Analyzes each eligible project's Safety Improvement Index (SII), if applicable.

· Sends a list of highway safety projects selected for funding in the HSIP to the districts.

District (Planning):

· Sets projects up in TxDOTCONNECT and coordinates with quarterly planning meetings, letting management, and other district partners as needed.

District (Design/Operations):

· Notifies TRF of any overruns or scope changes of an HSIP project's authorized funds prior to Plans, Specifications, and Estimate (PS&E) submittal.

· Submits PS&E for HSIP projects to TRF in accordance with standard PS&E submission schedule.

TRF (Traffic Engineering/Safety)

· Handles overruns of project authorized funds at the divisional PS&E review stage in accordance with the current TxDOT policy.

· Tracks projects through to letting and changes in cost, scope, and schedule are addressed prior to award.

Identify which external partners are involved with HSIP planning.

- Academia/University
- FHWA
- Local Government Agency
- Regional Planning Organizations (e.g. MPOs, RPOs, COGs)

Describe coordination with external partners.

TxDOT offices notify stakeholders such as Local Government Agencies, MPOs, COGs, and other interested organizations in their districts when a call for project proposals has been issued. The district evaluates local submissions and provides advice regarding the eligibility and viability of safety projects suggested by the local government. The district submits all local proposals that meet the program requirements to TRF for funding consideration.

District personnel also work with these local stakeholders to identify problem locations, share information, and build relationships with an eye toward future safety improvements.

TxDOT contracts with the Texas Transportation Institute at Texas A&M University to provide crash analysis & visualization data (CAVs), as well as assistance determining the effectiveness of countermeasures for inclusion in the HSIP.

As always, TxDOT also makes every effort to keep our state FHWA coordinator informed of our efforts. The department has received outstanding support throughout the years through peer exchanges, research guidance, and maintaining a chain of continuity that supports improving highway safety in Texas.

Program Methodology

Does the State have an HSIP manual or similar that clearly describes HSIP planning, implementation and evaluation processes?

Yes

Select the programs that are administered under the HSIP.

- HRRR
- Local Safety
- Vulnerable Road Users
- Other-Systemic Improvements
- Other-Targeted/Hot Spot Improvements
- Other-Annual Priority subprogram

The Annual Priority subprogram was formerly called the Statewide Systemic program, addressing a statewide countermeasure determined for each fiscal year. The program was renamed in the 2025 Program Call to reduce confusion with the State Systemic Widening program, which is funded separately from the HSIP.

Program: HRRR

Date of Program Methodology:4/1/2024

What is the justification for this program?

- Other-FHWA Special Rule

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
• Fatal and serious injury crashes only		• Functional classification

What project identification methodology was used for this program?

- Probability of specific crash types

Are local roads (non-state owned and operated) included or addressed in this program?

No

Are local road projects identified using the same methodology as state roads?

How are projects under this program advanced for implementation?

- selection committee

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Rank of Priority Consideration

Available funding:22
Ranking based on net benefit:1

TxDOT receives notification that the state crash counts trigger special rules in the spring of each year, after we have substantially completed programming for applicable funds. Since that does not leave us time to develop a statistical methodology to systematically program safety projects to address the high risk roadways, we evaluate our existing portfolio of projects and identify those projects that are expected to have the most significant impact on travelers using these routes.

Program: Local Safety

Date of Program Methodology:9/1/2021

What is the justification for this program?

- Other-Dedicated funding for off-system projects

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
• Other-KAB Crash counts		• Other-Non-state Roadway ownership

What project identification methodology was used for this program?

- Crash frequency
- Probability of specific crash types

Are local roads (non-state owned and operated) included or addressed in this program?

Yes

Are local road projects identified using the same methodology as state roads?

Yes

How are projects under this program advanced for implementation?

- Other-District Prioritization

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Rank of Priority Consideration

Available funding:1
Other-District Prioritization:2

Program: Vulnerable Road Users

Date of Program Methodology:3/1/2023

What is the justification for this program?

- Other-FHWA Special Rule

What is the funding approach for this program?

Other-VRU projects are already included in our HSIP project selection

What data types were used in the program methodology?

Crashes	Exposure	Roadway
• Fatal and serious injury crashes only		

What project identification methodology was used for this program?

- Probability of specific crash types

Are local roads (non-state owned and operated) included or addressed in this program?

No

Are local road projects identified using the same methodology as state roads?

How are projects under this program advanced for implementation?

- selection committee

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Rank of Priority Consideration

Available funding:1

TxDOT receives notification that the state crash counts trigger special rules in the spring of each year, after we have substantially completed programming for applicable funds. Since that does not leave us time to develop a statistical methodology to systematically program safety projects to address the VRU population, we evaluate our existing portfolio of projects and identify those projects that are expected to have the most significant impact on vulnerable road user safety.

Program: Other-Systemic Improvements

Date of Program Methodology:8/1/2023

What is the justification for this program?

- Addresses SHSP priority or emphasis area

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
• Fatal and serious injury crashes only		• Other-Probability of specific crash types

What project identification methodology was used for this program?

- Probability of specific crash types

Are local roads (non-state owned and operated) included or addressed in this program?

No

Are local road projects identified using the same methodology as state roads?

How are projects under this program advanced for implementation?

- Other-District Prioritization

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Rank of Priority Consideration

Other-District Prioritization:1

Program: Other-Targeted/Hot Spot Improvements

Date of Program Methodology:9/1/2022

What is the justification for this program?

- Addresses SHSP priority or emphasis area
- FHWA focused approach to safety

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
• Other-KAB Crash counts		

What project identification methodology was used for this program?

- Other-Safety Improvement Index
- Probability of specific crash types

Are local roads (non-state owned and operated) included or addressed in this program?

No

Are local road projects identified using the same methodology as state roads?

How are projects under this program advanced for implementation?

- Other-District Prioritization

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Rank of Priority Consideration

Available funding:2
Other-District Prioritization:1

Program: Other-Annual Priority subprogram

Date of Program Methodology:9/9/2021

What is the justification for this program?

- Addresses SHSP priority or emphasis area

What is the funding approach for this program?

Funding set-aside

What data types were used in the program methodology?

Crashes	Exposure	Roadway
		• Other-Overall roadway features

What project identification methodology was used for this program?

- Probability of specific crash types

Are local roads (non-state owned and operated) included or addressed in this program?

No

Are local road projects identified using the same methodology as state roads?

How are projects under this program advanced for implementation?

- Other-District Prioritization
- selection committee

Select the processes used to prioritize projects for implementation. For the methods selected, indicate the relative importance of each process in project prioritization. Enter either the weights or numerical rankings. If weights are entered, the sum must equal 100. If ranks are entered, indicate ties by giving both processes the same rank and skip the next highest rank (as an example: 1, 2, 2, 4).

Rank of Priority Consideration

Other-District Prioritization:1

What percentage of HSIP funds address systemic improvements?

40

HSIP funds are used to address which of the following systemic improvements?

- Add/Upgrade/Modify/Remove Traffic Signal
- Cable Median Barriers
- Horizontal curve signs
- Install/Improve Lighting
- Install/Improve Pavement Marking and/or Delineation
- Install/Improve Signing
- Other-Various innovative intersection improvements
- Other-Various VRU improvements
- Pavement/Shoulder Widening
- Rumble Strips
- Wrong way driving treatments

Our complete list of allowed systemic improvements can be found in the TxDOT HSIP Guidance document on txdot.gov, and Districts may request additional systemic countermeasures if the data supports their use.

What process is used to identify potential countermeasures?

- Crash data analysis
- Data-driven safety analysis tools (HSM, CMF Clearinghouse, SafetyAnalyst, usRAP)
- Engineering Study
- SHSP/Local road safety plan
- Stakeholder input

Does the State HSIP consider connected vehicles and ITS technologies?

No

Does the State use the Highway Safety Manual to support HSIP efforts?

Yes

Please describe how the State uses the HSM to support HSIP efforts.

TxDOT implemented Highway Safety Manual (HSM) methods and tools to perform network screening, diagnosis, and countermeasure selection for the Highway Safety Improvement Program (HSIP). With regard to network screening, TxDOT applied the sliding window method to calculate seven HSM performance measures:

crash frequency, crash rate, critical rate, excess predicted average crash frequency using method of moments, excess predicted average crash frequency using Safety Performance Functions, probability of specific crash types exceeding threshold proportion, and excess proportion of specific crash types.

Further, TxDOT developed Crash Analysis and Visualization (CAVS) data to enhance the process of selecting safety projects to submit for HSIP funding consideration. Crash data and crash attributes for all Fatal (K) and Suspected Serious Injury (A) crashes statewide were compiled into a spreadsheet. Each HSIP work code was analyzed for each crash to determine whether that crash could be prevented by the type of work. All of the K and A crashes were then mapped in Google Earth. The maps can be filtered to only show crashes that apply to a particular type of work. For example, all crashes that could be prevented with the addition of rumble strips can be mapped to help identify the best place to install the rumble strips. Master plans can also be added to the CAVS data. The master plans include the limits of completed projects, programmed projects and identified projects. The master plans along with the applicable crashes for each work type were displayed on a single map that identifies the projects with the highest potential benefit-cost ratio.

TxDOT Districts use the network screening process to assist in their selection of candidate HSIP projects.

Project Implementation

Funds Programmed

Reporting period for HSIP funding.

State Fiscal Year

The State of Texas Fiscal Year runs from September 1st through August 31st annually.

Enter the programmed and obligated funding for each applicable funding category.

FUNDING CATEGORY	PROGRAMMED	OBLIGATED	% OBLIGATED/PROGRAMMED
HSIP (23 U.S.C. 148)	$319,626,757	$216,007,875	67.58%
HRRR Special Rule (23 U.S.C. 148(g)(1))	$19,644,164	$14,572,152	74.18%
VRU Safety Special Rule (23 U.S.C. 148(g)(3))	$52,254,153	$36,723,555	70.28%
Penalty Funds (23 U.S.C. 154)	$0	$0	0%
Penalty Funds (23 U.S.C. 164)	$0	$0	0%
RHCP (for HSIP purposes) (23 U.S.C. 130(e)(2))	$0	$0	0%
Other Federal-aid Funds (i.e. STBG, NHPP)	$0	$0	0%
State and Local Funds	$0	$60,909,289	0%
Totals	$391,525,074	$328,212,871	83.83%

How much funding is programmed to local (non-state owned and operated) or tribal safety projects?

$17,991,136

How much funding is obligated to local or tribal safety projects?

$27,451,906

How much funding is programmed to non-infrastructure safety projects?

$0

How much funding is obligated to non-infrastructure safety projects?

$0

How much funding was transferred in to the HSIP from other core program areas during the reporting period under 23 U.S.C. 126?

$0

How much funding was transferred out of the HSIP to other core program areas during the reporting period under 23 U.S.C. 126?

$0

Discuss impediments to obligating HSIP funds and plans to overcome this challenge in the future.

We do not have any impediments to obligating our HSIP funds at this time. Our Administration is supportive of the program and provides us with appropriate obligation authority.

General Listing of Projects

List the projects obligated using HSIP funds for the reporting period.

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST($)	TOTAL PROJECT COST($)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED OR SPEED RANGE	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
0053-04-045	Roadway delineation	Roadway delineation - other	15.197		$3744511	$3744511	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0053-06-032	Roadway delineation	Roadway delineation - other	7.722		$1887698	$1887698	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0220-07-074	Roadway delineation	Roadway delineation - other			$219085	$219085	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0063-04-068	Roadway delineation	Roadway delineation - other	2.073		$393564	$414064	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0063-11-061	Roadway delineation	Roadway delineation - other	2.602		$437564	$437564	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0063-11-062	Roadway delineation	Roadway delineation - other	1.859		$274431	$274431	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0204-01-074, 0204-02-037, 0204-03-046, 0204-04-049, 0320-04-030	Roadway delineation	Roadway delineation - other			$3597980	$3747980	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0113-09-077	Roadway delineation	Roadway delineation - other			$406603	$418603	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
3417-02-038	Roadway delineation	Roadway delineation - other			$1681925	$1733925	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
3417-03-032	Roadway delineation	Roadway delineation - other			$1112481	$1139482	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0385-04-053	Roadway delineation	Roadway delineation - other	1.863		$941156	$986156	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0116-04-114	Roadway delineation	Roadway delineation - other	1.884		$327236	$327236	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0049-12-150	Roadway delineation	Roadway delineation - other	4.804		$924670	$940670	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0049-09-101	Roadway delineation	Roadway delineation - other	4.804		$96136	$96136	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0177-02-109	Roadway delineation	Roadway delineation - other	5.126		$891598	$891598	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	

PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST($)	TOTAL PROJECT COST($)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED OR SPEED RANGE	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
0176-05-201	Roadway delineation	Roadway delineation - other	21.864		$3233703	$3239703	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0177-01-118	Roadway delineation	Roadway delineation - other	10.221		$1347130	$1347130	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0044-07-075	Roadway delineation	Roadway delineation - other			$942876	$942876	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0044-06-077	Roadway delineation	Roadway delineation - other			$2018680	$2022680	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0044-06-078	Roadway delineation	Roadway delineation - other			$322111	$322111	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0306-03-141, 0508-04-183	Roadway delineation	Roadway delineation - other	3.724		$2970822	$4560763	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0073-02-088, 0073-03-072, 0073-04-051	Roadway delineation	Roadway delineation - other			$1472162	$1476162	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0371-03-137	Roadway delineation	Roadway delineation - other			$2270268	$2295268	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0008-02-079	Roadway delineation	Roadway delineation - other	14.078		$1239440	$1285940	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0185-03-033	Intersection geometry	Add/modify auxiliary lanes			$1874754	$1894754	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0186-02-032	Intersection geometry	Add/modify auxiliary lanes			$1318563	$1318563	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
2614-01-024	Intersection geometry	Add/modify auxiliary lanes	9.386		$3874216	$14749277	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0914-33-097	Intersection geometry	Add/modify auxiliary lanes			$3606106	$3694606	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0568-01-056	Intersection geometry	Add/modify auxiliary lanes	0.274		$478124	$623347	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0568-01-057	Intersection geometry	Add/modify auxiliary lanes	0.295		$497742	$929522	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0568-01-058	Intersection geometry	Add/modify auxiliary lanes	0.32		$530468	$790075	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0568-01-055	Intersection geometry	Add/modify auxiliary lanes	0.205		$523221	$659218	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	

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0914-00-459	Intersection traffic control	Modify traffic signal –other			$1147055	$1153555	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1315-02-015	Intersection traffic control	Modify traffic signal –other			$41520	$42220	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1567-01-043	Intersection traffic control	Modify traffic signal –other			$35413	$36113	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1567-02-038	Intersection traffic control	Modify traffic signal –other			$40488	$41188	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0902-90-242	Intersection traffic control	Modify traffic signal –other			$786745	$932237	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0918-00-365	Intersection traffic control	Modify traffic signal –other			$328723	$329423	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0909-00-052	Intersection traffic control	Modify traffic signal –other			$436915	$462915	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0917-12-090	Intersection traffic control	Modify traffic signal –other			$188127	$210977	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0917-30-063	Intersection traffic control	Modify traffic signal –other			$101696	$101696	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0291-10-119	Intersection traffic control	Modify traffic signal –other	1.858		$174403	$277003	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0521-04-299	Intersection traffic control	Modify traffic signal –other	7.054		$278495	$278495	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0047-03-104	Intersection traffic control	Modify traffic signal –other			$50862	$50862	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0047-03-105	Intersection traffic control	Modify traffic signal –other			$51134	$51134	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0921-02-517	Intersection traffic control	Modify traffic signal –other			$70764	$73764	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0921-02-518	Intersection traffic control	Modify traffic signal –other			$82061	$85974	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0921-02-519	Intersection traffic control	Modify traffic signal –other			$40130	$96378	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0921-02-520	Intersection traffic control	Modify traffic signal –other			$173111	$249311	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0904-00-214	Intersection traffic control	Modify traffic signal –other	0.2		$460839	$641276	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	

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0902-90-243	Intersection traffic control	Modify traffic signal –other			$204728	$507300	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0870-06-021	Intersection traffic control	Intersection signing –other	0.053		$60457	$60457	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0870-06-022	Intersection traffic control	Intersection signing –other	0.048		$60158	$60158	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
3409-01-010	Roadway signs and traffic control	Roadway signs and traffic control - other			$33248	$33248	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
3233-01-013	Roadway signs and traffic control	Roadway signs and traffic control - other			$27919	$27919	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0774-03-015	Roadway signs and traffic control	Roadway signs and traffic control - other			$49579	$55579	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0774-05-016	Roadway signs and traffic control	Roadway signs and traffic control - other			$17145	$17145	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0065-05-158	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$191202	$193202	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0213-08-097	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$54266	$54266	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0243-01-055	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$22872	$22872	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0508-04-187	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$47091	$47091	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0593-01-138	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$26536	$26536	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0811-02-032	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$24042	$24042	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0813-01-111	Roadway signs and traffic control	Roadway signs and traffic control - other			$28370	$28370	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	

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0951-01-077	Roadway signs and traffic control	Roadway signs and traffic control - other	0		$25823	$25823	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1754-02-030	Roadway delineation	Roadway delineation - other			$1109404	$1109404	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0117-05-059	Roadway delineation	Roadway delineation - other			$717145	$732145	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
2635-02-038	Roadway delineation	Roadway delineation - other	2.86		$4588058	$6952099	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0252-03-053	Roadway delineation	Roadway delineation - other	0.6		$1486873	$1486873	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0326-01-068	Roadway signs and traffic control	Roadway signs and traffic control - other			$58877	$58877	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1558-03-111	Roadway signs and traffic control	Roadway signs and traffic control - other			$69115	$69115	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
3339-01-014	Roadway signs and traffic control	Roadway signs and traffic control - other			$166630	$166630	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1959-01-015	Roadway signs and traffic control	Roadway signs and traffic control - other			$106167	$106167	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0447-01-068	Roadway signs and traffic control	Roadway signs and traffic control - other			$83970	$83970	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0061-02-033	Lighting	Intersection lighting			$248376	$254376	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0910-16-182	Lighting	Intersection lighting			$232606	$234606	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1558-03-117	Lighting	Intersection lighting			$130146	$130146	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0062-07-103	Lighting	Intersection lighting			$89804	$107804	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0632-01-031	Lighting	Intersection lighting	1		$116429	$117829	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0394-01-069	Lighting	Intersection lighting	1		$62785	$64185	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	

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1763-01-013	Lighting	Intersection lighting	1		$94016	$99616	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1385-03-009	Lighting	Intersection lighting	1		$92051	$97651	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0393-03-037	Lighting	Intersection lighting	1		$65536	$71136	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0394-01-070	Lighting	Intersection lighting	1		$249931	$252731	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0402-03-043	Lighting	Intersection lighting	1		$102975	$105775	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0096-08-060	Lighting	Intersection lighting	1		$84323	$85723	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0096-10-027	Lighting	Intersection lighting	1		$82564	$83964	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0392-01-078	Lighting	Intersection lighting	1		$105144	$106544	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0392-01-077	Lighting	Intersection lighting	1		$139771	$141171	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0520-02-065	Lighting	Intersection lighting			$53857	$53857	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0569-04-024	Lighting	Intersection lighting			$65284	$65284	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0734-01-045	Lighting	Intersection lighting			$46953	$46953	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1575-05-023	Lighting	Intersection lighting			$451006	$451006	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0010-08-060	Lighting	Intersection lighting	1		$281938	$287938	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0096-03-078	Lighting	Intersection lighting	1		$40776	$48276	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0248-05-067	Lighting	Intersection lighting	1		$94315	$95715	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0277-03-030	Lighting	Intersection lighting	1		$85275	$85275	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
3041-02-020	Lighting	Intersection lighting	1		$76113	$78913	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	

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2121-03-166	Intersection traffic control	Modify traffic signal –other	8.436		$880752	$930644	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0049-07-069	Intersection traffic control	Modify traffic signal –other	0.2		$467834	$477834	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0910-00-137	Intersection traffic control	Modify traffic signal –other			$1755175	$1762175	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0910-16-178	Intersection traffic control	Modify traffic signal –other			$1451085	$1454085	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0218-03-095	Lighting	Intersection lighting			$116386	$116386	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
1574-03-013	Lighting	Intersection lighting	1		$79113	$82332	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0223-02-034	Lighting	Intersection lighting	1		$146951	$152551	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0222-04-068	Lighting	Intersection lighting	0.5		$135771	$148871	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0520-03-036	Lighting	Intersection lighting	1		$140975	$146575	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0520-04-035	Lighting	Intersection lighting	1		$122533	$125333	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	
0546-09-044	Lighting	Intersection lighting			$91477	$91477	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Systemic	Intersections	

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0912-72-661	Pedestrians and bicyclists	Install new crosswalk			$349286	$349286	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0906-32-064	Access management	Access management - other	0		$1187473	$2013263	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0190-01-038	Pedestrians and bicyclists	Rapid Rectangular Flashing Beacons (RRFB)			$49680	$54969	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0400-02-058	Pedestrians and bicyclists	Rapid Rectangular Flashing Beacons (RRFB)			$15860	$15860	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0912-72-662	Pedestrians and bicyclists	Install sidewalk			$821880	$1506584	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0909-36-190	Pedestrians and bicyclists	Install sidewalk			$235309	$240667	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0918-47-457	Pedestrians and bicyclists	Pedestrian warning signs	0		$773400	$958400	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Pedestrians	
0860-02-015	Shoulder treatments	Pave existing shoulders	2.501		$4031763	$5678137	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0002-04-035	Shoulder treatments	Pave existing shoulders	5.279		$2364006	$3695998	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0910-16-176	Roadway signs and traffic control	Curve-related warning signs and flashers			$10313	$12361	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0910-16-179	Roadway signs and traffic control	Curve-related warning signs and flashers			$13744	$13744	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0910-12-141	Roadway signs and traffic control	Curve-related warning signs and flashers			$450860	$452860	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0910-07-085	Roadway signs and traffic control	Curve-related warning signs and flashers			$240950	$242950	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
1181-03-041	Roadway signs and traffic control	Curve-related warning signs and flashers	0.308		$90220	$91720	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0089-04-082, 0089-05-049	Roadway delineation	Roadway delineation - other	3.915		$766011	$777491	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
2398-01-055	Roadway delineation	Roadway delineation - other			$1032618	$1055618	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	

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0140-02-050	Roadway delineation	Roadway delineation - other	8		$1938518	$2013518	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0162-01-102	Roadway delineation	Roadway delineation - other			$993389	$996389	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0013-08-145, 0013-06-050, 0013-07-086	Roadway delineation	Roadway delineation - other	22.391		$3256002	$5916834	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0114-11-094, 0114-12-016	Roadway delineation	Roadway delineation - other			$1970595	$1990245	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0053-05-053	Roadway delineation	Roadway delineation - other	14.339		$3432733	$3432733	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0038-01-097	Roadway delineation	Roadway delineation - other	5.17		$1040125	$1116341	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0836-02-077	Roadway delineation	Roadway delineation - other	6.402		$2139263	$5786775	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0041-07-122	Roadway delineation	Roadway delineation - other	5.1		$1080199	$1080199	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0028-03-116	Roadway delineation	Roadway delineation - other	12.134		$1413101	$1669703	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0070-02-099	Roadway delineation	Roadway delineation - other	24.083		$4084306	$4086306	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0143-09-072	Roadway delineation	Roadway delineation - other	10.136		$1930391	$1930391	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0143-10-056	Roadway delineation	Roadway delineation - other	4.518		$735244	$735244	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0912-72-663	Roadway delineation	Roadway delineation - other			$309524	$309524	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0912-72-674	Roadway delineation	Roadway delineation - other			$331323	$331323	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0002-02-059	Access management	Access management - other	2.414		$1361380	$1401380	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0055-15-081	Access management	Access management - other	0		$299986	$301986	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0449-01-024	Roadway	Rumble strips –other	4.028		$4695146	$4917896	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	

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0620-01-018	Roadway	Rumble strips –other	4.249		$6203272	$6340827	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
1843-01-023	Roadway	Roadway widening - travel lanes	3.748		$2869911	$2888911	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0375-03-017	Roadway	Roadway widening - travel lanes	3		$1757674	$1779358	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0340-01-048	Lighting	Continuous roadway lighting			$46581	$46581	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0340-02-030	Lighting	Continuous roadway lighting			$58761	$58761	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0341-01-031	Lighting	Continuous roadway lighting			$25798	$25798	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0109-03-041	Lighting	Continuous roadway lighting			$229244	$231244	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0319-01-070	Lighting	Continuous roadway lighting			$28162	$28162	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0301-01-089	Lighting	Continuous roadway lighting			$213917	$512094	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
2951-01-009	Roadside	Removal of fixed objects (trees, poles, etc.)			$1564315	$1604315	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
1087-02-011	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)			$400100	$589719	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0049-08-076	Shoulder treatments	Widen shoulder – paved or other (includes add shoulder)	5.654		$2487591	$2502591	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0480-08-033	Roadway	Rumble strips –other	5.854		$3514727	$3514727	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Roadway Departure	
0914-05-232	Speed management	Dynamic Speed Feedback Signs			$100633	$100633	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Lane Departure	
0916-00-281	Advanced technology and ITS	Wrong-way Driving Detection System			$1035616	$1357670	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Systemic	Lane Departure	
0057-02-038	Intersection geometry	Add/modify auxiliary lanes			$221187	$221187	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0114-02-114	Intersection geometry	Add/modify auxiliary lanes			$387821	$387821	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0114-02-113	Intersection geometry	Add/modify auxiliary lanes			$738482	$753482	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0024-07-069	Access management	Median crossover - relocate/close crossover	0.2		$3687442	$6924482	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1163-02-034	Intersection traffic control	Modify control – other	0.4		$126608	$126608	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3421-01-014	Intersection traffic control	Modify control – other	0.4		$140450	$140450	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3421-01-015	Intersection traffic control	Modify control – other	0.4		$108257	$108257	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
2964-04-009	Intersection traffic control	Modify traffic signal –other	0.2		$915444	$933790	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-416	Intersection traffic control	Modify traffic signal –other			$333259	$551326	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0915-12-766	Intersection traffic control	Modify traffic signal –other			$313500	$313500	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-353	Intersection traffic control	Modify traffic signal –other	0.2		$443956	$808975	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-350	Intersection traffic control	Modify traffic signal –other	0.2		$577975	$1261063	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-355	Intersection traffic control	Modify traffic signal –other	0.2		$445534	$846772	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-24-267	Intersection traffic control	Modify traffic signal –other	0.2		$591741	$1028312	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0069-07-111	Intersection traffic control	Modify traffic signal –other			$604328	$606328	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0069-07-112	Intersection traffic control	Modify traffic signal –other			$383159	$383159	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
2284-01-032	Intersection traffic control	Modify traffic signal –other	0.2		$355503	$357503	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0028-02-105	Intersection traffic control	Modify traffic signal –other	0.2		$236908	$236908	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0915-12-709	Intersection traffic control	Modify traffic signal –other	0.2		$455821	$455821	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0915-12-710	Intersection traffic control	Modify traffic signal –other	0.2		$349938	$349938	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0915-12-711	Intersection traffic control	Modify traffic signal –other	0.2		$293322	$293322	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0915-12-719	Intersection traffic control	Modify traffic signal –other	0.2		$233119	$233119	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0915-12-696	Intersection traffic control	Modify traffic signal –other	0.2		$377878	$424899	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0915-12-716	Intersection traffic control	Modify traffic signal –other	0.2		$334261	$338261	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0025-03-105	Intersection traffic control	Modify traffic signal –other	0.2		$247333	$253333	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0366-02-097	Intersection traffic control	Modify traffic signal –other	0.2		$129398	$129398	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0366-03-071	Intersection traffic control	Modify traffic signal –other	0.1		$202324	$202324	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3107-02-037	Intersection traffic control	Modify traffic signal –other	0.2		$359831	$359831	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3107-02-038	Intersection traffic control	Modify traffic signal –other	0.2		$134880	$134880	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3107-02-039	Intersection traffic control	Modify traffic signal –other	0.2		$259994	$259994	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3107-02-040	Intersection traffic control	Modify traffic signal –other	0.2		$335062	$335062	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0907-24-056	Intersection traffic control	Modify traffic signal –other			$162692	$229637	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-441	Intersection traffic control	Modify traffic signal –other			$447942	$519543	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0902-50-143	Intersection traffic control	Modify traffic signal –other			$730198	$732198	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-24-291	Intersection traffic control	Modify traffic signal –other	0		$498395	$533615	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0080-03-061	Roadway signs and traffic control	Roadway signs and traffic control - other			$314046	$314046	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0921-02-510	Roadway signs and traffic control	Roadway signs and traffic control - other			$93581	$193254	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0338-01-068	Roadway delineation	Roadway delineation - other	0.413		$2424090	$2424090	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0338-01-069	Roadway delineation	Roadway delineation - other	0.56		$1243343	$1243343	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0108-03-044	Roadway delineation	Roadway delineation - other	0.758		$178439	$179689	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0252-03-054	Roadway delineation	Roadway delineation - other	3.266		$9702239	$9792239	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0388-03-084	Roadway delineation	Roadway delineation - other	1.38		$2588820	$4172903	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0578-03-051	Roadway delineation	Roadway delineation - other	0.92		$611096	$626096	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0914-05-214	Intersection traffic control	Intersection flashers –sign-mounted or overhead	0.2		$59193	$85855	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0014-10-068	Intersection traffic control	Modify control – new traffic signal			$353760	$474302	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0073-02-083	Intersection traffic control	Modify control – new traffic signal	0.2		$419953	$419953	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0924-06-685	Intersection traffic control	Modify control – new traffic signal			$440209	$440209	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0924-06-688	Intersection traffic control	Modify control – new traffic signal			$425325	$477636	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1046-01-047	Intersection traffic control	Modify control – new traffic signal			$456020	$561020	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0167-02-086	Intersection traffic control	Modify control – new traffic signal			$360510	$360510	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0336-05-068	Intersection traffic control	Modify control – new traffic signal	0.2		$317627	$319627	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-442	Intersection traffic control	Modify control – new traffic signal			$428735	$433235	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
2150-04-087	Intersection traffic control	Modify control – new traffic signal	0.2		$428776	$432167	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0039-01-102	Intersection traffic control	Modify control – new traffic signal			$302664	$302664	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0039-02-078	Intersection traffic control	Modify control – new traffic signal			$317340	$317340	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0909-22-196	Intersection traffic control	Modify control – new traffic signal			$278912	$320985	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0914-04-331	Intersection traffic control	Modify control – new traffic signal	0.2		$290492	$459536	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0914-04-333	Intersection traffic control	Modify control – new traffic signal	0.2		$260178	$410544	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0674-01-076	Intersection traffic control	Modify control – new traffic signal	0.2		$758785	$758785	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0178-03-159	Intersection traffic control	Modify traffic signal timing – signal coordination			$536733	$543233	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0178-04-006	Intersection traffic control	Modify traffic signal timing – signal coordination			$259539	$259539	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0502-01-237	Intersection traffic control	Modify traffic signal timing – signal coordination			$658352	$748352	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0027-07-046	Intersection traffic control	Modify traffic signal timing – signal coordination	3.7		$658000	$664500	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1400-04-039	Intersection traffic control	Modify traffic signal timing – signal coordination	5.1		$545176	$545176	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
3538-01-058	Intersection traffic control	Modify traffic signal timing – signal coordination	4.7		$418365	$418365	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0179-02-089, 0188-07-006	Intersection traffic control	Modify traffic signal timing – signal coordination	1.3		$141621	$141621	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0188-01-040	Intersection traffic control	Modify traffic signal timing – signal coordination	1.8		$234985	$234985	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0177-16-008	Intersection traffic control	Modify traffic signal timing – signal coordination	1584		$38982	$38982	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0177-14-045	Intersection traffic control	Modify traffic signal timing – signal coordination	25344		$573846	$580846	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1986-01-072	Intersection traffic control	Modify traffic signal timing – signal coordination	39600		$1309536	$1337510	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-24-290	Intersection geometry	Intersection geometry - other	0		$89377	$229073	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0863-03-041	Intersection traffic control	Modify traffic signal – modernization/replacement			$297114	$342114	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1803-02-050	Intersection traffic control	Modify traffic signal – modernization/replacement			$265264	$265264	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0197-04-087	Intersection geometry	Innovative Intersection (e.g. MUT, RCUT, QR)	0.985		$2337035	$2337035	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0102-01-122	Lighting	Intersection lighting			$86143	$89143	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0245-06-089	Lighting	Intersection lighting	0.4		$64263	$66263	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0424-01-061	Lighting	Intersection lighting	0.4		$58031	$58031	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1027-01-023	Roadside	Removal of fixed objects (trees, poles, etc.)			$770173	$792673	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1697-02-032	Roadside	Removal of fixed objects (trees, poles, etc.)			$487510	$487510	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0924-06-686	Intersection traffic control	Modify control – Modern Roundabout			$110399	$110399	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0186-05-045	Intersection traffic control	Modify traffic signal –other	0.4		$275471	$532513	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0197-02-134	Intersection traffic control	Modify traffic signal –other	0.2		$627519	$1015958	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0581-01-161	Intersection traffic control	Modify traffic signal –other	0.2		$587361	$681525	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-424	Intersection traffic control	Modify traffic signal –other			$435197	$589376	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0581-01-162	Intersection traffic control	Modify traffic signal –other	0.2		$552081	$644981	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0092-02-138	Intersection traffic control	Modify traffic signal –other	0.2		$898163	$3139529	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0918-47-351	Intersection traffic control	Modify traffic signal –other	0.2		$427194	$651873	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0261-03-069	Intersection traffic control	Modify traffic signal –other	0.2		$629709	$1065013	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0047-07-243	Intersection traffic control	Modify traffic signal –other	0.2		$640917	$1553258	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0047-07-244	Intersection traffic control	Modify traffic signal –other	0.2		$603885	$1239478	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-348	Intersection traffic control	Modify traffic signal –other	0.2		$376909	$516975	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-349	Intersection traffic control	Modify traffic signal –other	0.2		$410119	$656521	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0907-24-053	Intersection traffic control	Modify traffic signal –other			$45478	$45478	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1685-03-108	Intersection traffic control	Modify traffic signal –other	0.2		$464353	$464353	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
1685-02-054	Intersection traffic control	Modify traffic signal –other	0.2		$384080	$497080	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0508-01-385	Intersection traffic control	Modify traffic signal –other	0.2		$753027	$792527	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0051-03-120	Intersection traffic control	Modify traffic signal –other	0.2		$315582	$375682	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0110-07-023	Intersection traffic control	Modify traffic signal –other	0.2		$413976	$433976	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0150-03-022	Intersection traffic control	Modify traffic signal –other			$301579	$331579	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-24-295	Intersection traffic control	Modify traffic signal –other	0		$50476	$234108	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0902-90-212	Intersection traffic control	Modify traffic signal –other			$428701	$730096	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0902-90-214	Intersection traffic control	Modify traffic signal –other			$513663	$1194669	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-24-278	Intersection traffic control	Modify traffic signal –other			$418842	$689818	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0918-47-400	Intersection traffic control	Modify traffic signal –other			$582794	$715656	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
2964-05-032	Intersection traffic control	Modify traffic signal –other			$985695	$1127594	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
2964-05-033	Intersection traffic control	Modify traffic signal –other			$916783	$1155779	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0094-01-042	Intersection traffic control	Modify traffic signal –other	0.2		$333125	$769066	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0047-07-247	Intersection traffic control	Modify traffic signal –other			$888703	$1097751	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0918-47-417	Intersection traffic control	Modify traffic signal –other			$478563	$547811	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0070-02-098	Intersection traffic control	Modify traffic signal –other			$387133	$387133	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0167-02-081	Intersection traffic control	Modify traffic signal –other	0.2		$617726	$682726	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0902-90-207	Intersection traffic control	Modify traffic signal –other			$540346	$1129077	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0191-01-096	Intersection traffic control	Modify traffic signal –other	0		$387190	$387190	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0101-03-120	Intersection traffic control	Modify traffic signal –other			$862363	$1479794	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0254-01-146	Intersection traffic control	Modify traffic signal –other	1.635		$648095	$648095	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0674-01-073	Intersection traffic control	Modify control – new traffic signal			$400603	$400603	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0921-02-501	Intersection traffic control	Modify control – new traffic signal			$266800	$290100	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0921-02-502	Intersection traffic control	Modify control – new traffic signal			$248037	$317450	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0921-02-507	Intersection traffic control	Modify control – new traffic signal			$413471	$632133	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

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0110-06-155	Intersection traffic control	Modify control – new traffic signal	0.2		$584108	$619108	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0320-03-103	Intersection traffic control	Modify control – new traffic signal			$126580	$156580	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0902-90-209	Intersection traffic control	Modify control – new traffic signal			$466750	$657040	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0273-04-050	Intersection traffic control	Modify traffic signal – modernization/replacement			$139409	$200909	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	
0196-07-035	Advanced technology and ITS	Wrong-way Driving Detection System	1.442		$181043	$453735	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Older Drivers	
0047-07-245	Advanced technology and ITS	Wrong-way Driving Detection System	1.922		$201731	$629371	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Older Drivers	
0909-22-197	Intersection traffic control	Modify traffic signal –other			$674737	$682237	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0017-15-028	Pedestrians and bicyclists	Install sidewalk	1.000	Miles	$1111692	$1132692	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0521-03-062	Roadway signs and traffic control	Roadway signs and traffic control - other	1.35		$995159	$1016159	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0259-03-061	Lighting	Intersection lighting	0.2		$322727	$327827	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0910-07-086	Intersection traffic control	Modify traffic signal –other			$400629	$449360	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0171-05-101	Intersection traffic control	Modify traffic signal –other	8.437		$1504546	$2893132	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0165-01-109	Intersection traffic control	Modify traffic signal –other	0.4		$483898	$496398	VRU Safety Special Rule	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	

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							(23 U.S.C. 148(g)(3))								
0492-04-045	Intersection traffic control	Modify traffic signal –other	0.4		$382115	$382115	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
1844-01-029	Pedestrians and bicyclists	Install sidewalk	1.067		$2826450	$2905950	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
1911-01-022, 2523-01-030	Pedestrians and bicyclists	Install sidewalk	1.1		$944503	$2845752	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0913-27-090	Pedestrians and bicyclists	Install sidewalk	0.6		$482754	$505945	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0167-02-080	Pedestrians and bicyclists	Pedestrian beacons	0.2		$236054	$236054	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Pedestrians	
0046-03-044	Alignment	Alignment - other			$1475585	$1475585	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0918-47-443	Roadside	Roadside - other			$263387	$267887	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0918-47-459	Roadside	Roadside - other			$182087	$186587	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0910-16-171	Roadway signs and traffic control	Curve-related warning signs and flashers			$12675	$15333	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0910-16-172	Roadway signs and traffic control	Curve-related warning signs and flashers			$10397	$57835	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0910-16-173	Roadway signs and traffic control	Curve-related warning signs and flashers			$8243	$14537	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0910-16-174	Roadway signs and traffic control	Curve-related warning signs and flashers			$17185	$17185	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	

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0910-16-175	Roadway signs and traffic control	Curve-related warning signs and flashers			$30849	$30849	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0508-01-387	Roadway signs and traffic control	Curve-related warning signs and flashers	0.902		$401765	$422440	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0177-11-160	Roadway signs and traffic control	Curve-related warning signs and flashers	0.738		$150593	$150593	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0102-06-034	Roadway signs and traffic control	Curve-related warning signs and flashers			$205150	$205150	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
1413-01-019	Roadway signs and traffic control	Curve-related warning signs and flashers	2650		$134455	$138563	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0910-16-184	Roadway signs and traffic control	Curve-related warning signs and flashers			$68670	$162945	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0068-02-049, 0068-03-034	Roadway delineation	Roadway delineation - other	15.769		$3797828	$3797828	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0041-05-055	Roadway delineation	Roadway delineation - other	7.742		$1814587	$1820587	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0042-07-071	Roadway delineation	Roadway delineation - other			$576583	$600583	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0220-05-080	Access management	Access management - other	3.624		$4549749	$4717749	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0045-09-110, 0045-09-111	Access management	Access management - other	0.722		$2085076	$2150492	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0073-02-082	Access management	Access management - other	1.001		$1961005	$2121005	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0306-01-068	Lighting	Continuous roadway lighting	3.056		$686323	$686323	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0301-01-087	Roadway	Rumble strips –other			$1877254	$3598954	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2263-03-049	Roadway	Rumble strips –other	5.077		$65674	$65674	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	

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0019-01-148	Intersection geometry	Intersection geometry - other			$1433900	$1435900	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0914-33-091	Roadway	Pavement surface - other	0.93		$737549	$747549	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
3000-01-025	Roadway	Pavement surface - other	4.358		$1469819	$3222136	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0171-03-077	Roadway	Pavement surface - other			$734777	$754777	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0914-04-336	Lighting	Continuous roadway lighting	3.12		$1228845	$1767407	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0914-04-334	Lighting	Continuous roadway lighting	2		$1176217	$1505779	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0914-04-338	Lighting	Continuous roadway lighting			$488116	$510467	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0914-04-339	Lighting	Continuous roadway lighting			$345991	$361247	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0180-04-163	Lighting	Continuous roadway lighting			$103370	$103370	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0924-06-645	Lighting	Continuous roadway lighting	1.26		$495042	$495042	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0910-16-177	Lighting	Continuous roadway lighting			$39246	$43570	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2708-01-033	Lighting	Continuous roadway lighting	1.431		$778577	$783077	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
1052-03-030	Lighting	Continuous roadway lighting			$94411	$104411	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2263-03-050	Lighting	Continuous roadway lighting			$117724	$117724	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0675-08-118	Lighting	Continuous roadway lighting	6.032		$1445628	$1462628	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0338-11-058	Lighting	Continuous roadway lighting	1.604		$518165	$528165	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0270-03-079	Lighting	Continuous roadway lighting			$175567	$175567	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0348-06-027	Lighting	Continuous roadway lighting			$145521	$145521	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	

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2263-03-051	Lighting	Continuous roadway lighting			$130878	$130878	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0002-02-062	Lighting	Continuous roadway lighting	0		$928870	$928870	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
1149-01-031	Lighting	Continuous roadway lighting			$357338	$382338	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
3417-03-031	Lighting	Continuous roadway lighting			$696879	$697879	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0914-33-092	Lighting	Intersection lighting	2.1		$200123	$200123	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0507-01-021	Roadside	Removal of fixed objects (trees, poles, etc.)	3.809		$508478	$534678	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0136-06-055, 0136-05-048, 0136-04-048, 0136-04-049	Roadside	Removal of fixed objects (trees, poles, etc.)	16.786		$4447953	$4577758	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0909-22-190	Roadside	Removal of fixed objects (trees, poles, etc.)	1.21		$314704	$651860	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0455-02-032	Roadside	Removal of fixed objects (trees, poles, etc.)	14.075		$1772018	$1772018	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0045-12-093, 0046-10-007, 0046-01-071	Roadside	Removal of fixed objects (trees, poles, etc.)			$762758	$762758	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2506-01-045	Roadside	Removal of fixed objects (trees, poles, etc.)	5.958		$463681	$478681	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0045-09-116, 0045-11-046	Roadside	Removal of fixed objects (trees, poles, etc.)	11.574		$981391	$1062321	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0045-12-094	Roadside	Removal of fixed objects (trees, poles, etc.)	14.818		$864977	$864977	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2745-01-009	Roadside	Removal of fixed objects (trees, poles, etc.)			$5701032	$15385920	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
3039-01-006	Roadside	Removal of fixed objects (trees, poles, etc.)	2.054		$2715497	$5048456	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	

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2662-03-003	Roadside	Removal of fixed objects (trees, poles, etc.)	2.302		$1929493	$3930437	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0787-02-022	Roadside	Removal of fixed objects (trees, poles, etc.)	5.595		$3983906	$3998906	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2529-02-010	Roadway	Roadway - other	0.71		$6643337	$8244349	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0317-01-043	Roadway	Roadway widening - travel lanes	4.836		$3763383	$3778383	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2174-01-018	Roadway	Roadway widening - travel lanes	5.018		$5806745	$13122544	HSIP (23 U.S.C. 148)	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
1087-01-018	Roadway	Roadway widening - travel lanes	1.818		$1403302	$1413302	HRRR Special Rule (23 U.S.C. 148(g)(1))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
2353-02-028	Roadside	Removal of fixed objects (trees, poles, etc.)	6.559		$9473485	$9963217	HRRR Special Rule (23 U.S.C. 148(g)(1))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
1680-03-032	Roadside	Removal of fixed objects (trees, poles, etc.)	3		$2245803	$6089769	HRRR Special Rule (23 U.S.C. 148(g)(1))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
1293-01-024	Roadway	Roadway - other	2.601		$1796189	$2177877	HRRR Special Rule (23 U.S.C. 148(g)(1))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0915-12-695	Access management	Access management - other	3.419		$2683102	$2715102	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0686-02-032	Lighting	Continuous roadway lighting	26400		$1024066	$1039066	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0628-01-026	Lighting	Continuous roadway lighting	10560		$54616	$54616	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	
0979-01-029	Lighting	Continuous roadway lighting	10560		$356859	$371859	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Roadway Departure	

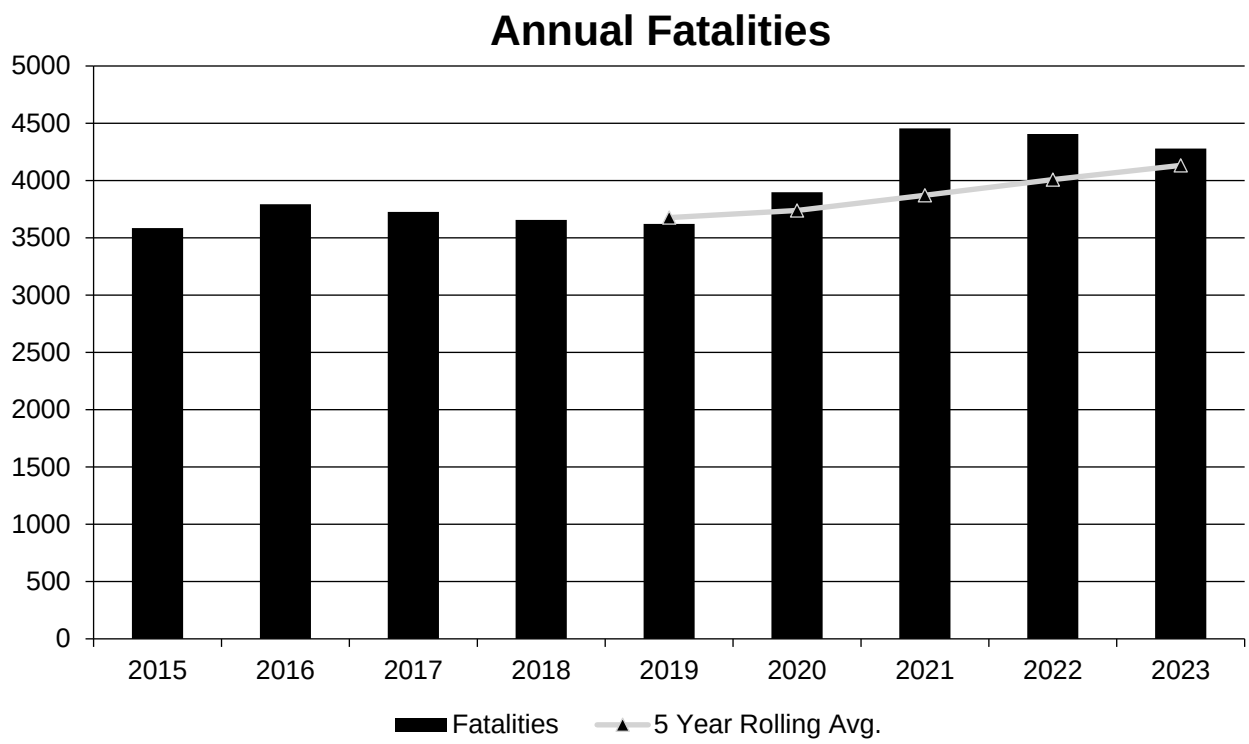
PROJECT NAME	IMPROVEMENT CATEGORY	SUBCATEGORY	OUTPUTS	OUTPUT TYPE	HSIP PROJECT COST($)	TOTAL PROJECT COST($)	FUNDING CATEGORY	LAND USE/AREA TYPE	FUNCTIONAL CLASSIFICATION	AADT	SPEED OR SPEED RANGE	OWNERSHIP	METHOD FOR SITE SELECTION	SHSP EMPHASIS AREA	SHSP STRATEGY
0921-02-503	Intersection traffic control	Modify traffic signal – modernization/replacement			$248037	$282181	VRU Safety Special Rule (23 U.S.C. 148(g)(3))	Multiple/Varies	Multiple/Varies	0			Spot	Intersections	

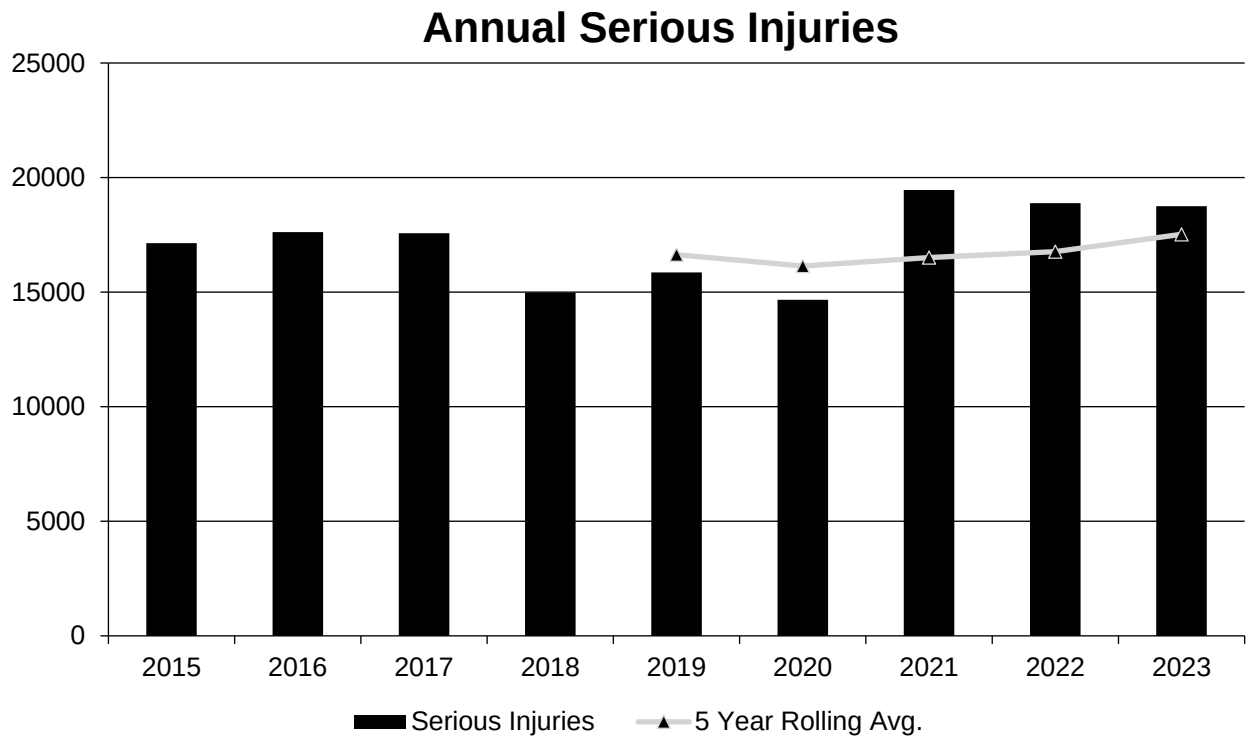
Safety Performance

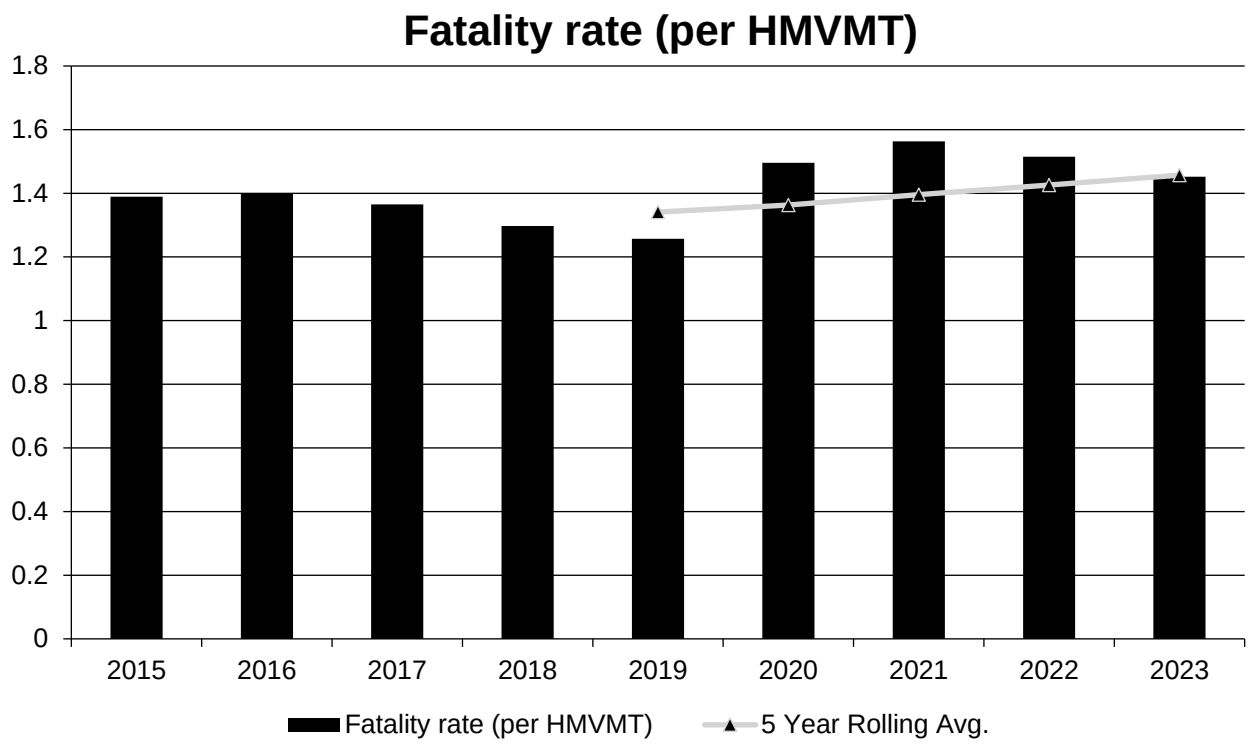
General Highway Safety Trends

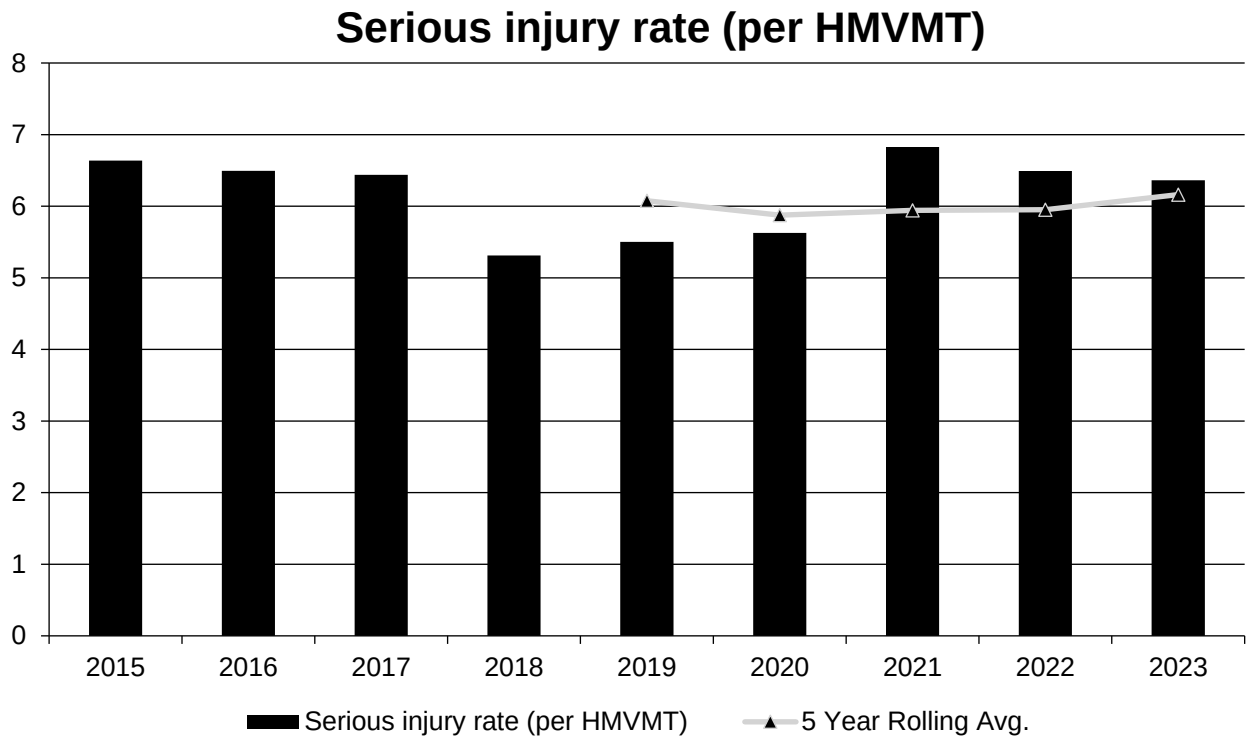
Present data showing the general highway safety trends in the State for the past five years.

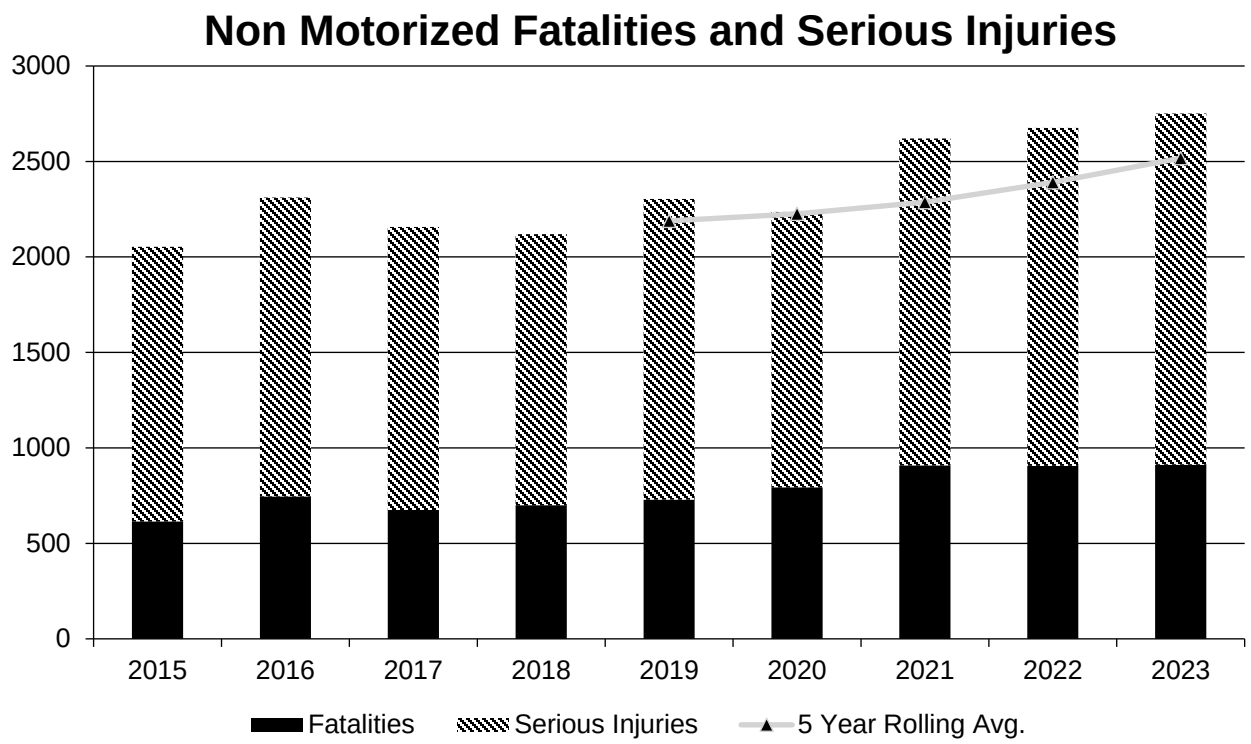
PERFORMANCE MEASURES	2015	2016	2017	2018	2019	2020	2021	2022	2023
Fatalities	3,585	3,794	3,726	3,657	3,622	3,898	4,456	4,407	4,280
Serious Injuries	17,135	17,618	17,571	14,981	15,859	14,666	19,456	18,885	18,752
Fatality rate (per HMVMT)	1.389	1.399	1.365	1.297	1.257	1.496	1.563	1.515	1.452
Serious injury rate (per HMVMT)	6.638	6.495	6.437	5.312	5.502	5.628	6.826	6.492	6.361
Number non-motorized fatalities	615	746	675	700	729	794	909	906	912
Number of non-motorized serious injuries	1,438	1,565	1,482	1,419	1,575	1,442	1,711	1,770	1,839


Annual Fatalities
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
2015
2016
2017
2018
2019
2020
2021
2022
2023
Fatalities
5 Year Rolling Avg.


Annual Serious Injuries
25000
20000
15000
10000
5000
0
2015
2016
2017
2018
2019
2020
2021
2022
2023
Serious Injuries
5 Year Rolling Avg.


Fatality rate (per HMVMT)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2015
2016
2017
2018
2019
2020
2021
2022
2023
Fatality rate (per HMVMT)
5 Year Rolling Avg.


Serious injury rate (per HMVMT)
8
7
6
5
4
3
2
1
0
2015
2016
2017
2018
2019
2020
2021
2022
2023
Serious injury rate (per HMVMT)
5 Year Rolling Avg.



Describe fatality data source.

State Motor Vehicle Crash Database

To the maximum extent possible, present this data by functional classification and ownership.

Year 2023

Functional Classification	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Rural Principal Arterial (RPA) - Interstate	200.8	561.8	1.02	2.84
Rural Principal Arterial (RPA) - Other Freeways and Expressways	10	33.6	0.87	2.83
Rural Principal Arterial (RPA) - Other	498	1,410.6	2.02	5.71
Rural Minor Arterial	335.6	946.6	2.89	8.18
Rural Minor Collector	37.6	137	1.89	6.89
Rural Major Collector	399.8	1,235.4	2.95	9.12
Rural Local Road or Street	334	1,868.2	6.86	38.3
Urban Principal Arterial (UPA) - Interstate	551.6	2,019.2	1.04	3.81
Urban Principal Arterial (UPA) - Other Freeways and Expressways	239.2	958.8	0.7	2.79
Urban Principal Arterial (UPA) - Other	584.6	2,629.4	1.4	6.31
Urban Minor Arterial	151	753	0.43	2.13
Urban Minor Collector	1	3.4	0.12	0.39
Urban Major Collector	59	311.4	0.2	1.06
Urban Local Road or Street	691.6	4,410.4	5.49	34.95

Year 2023

Roadways	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
State Highway Agency	3,114.4	11,569.8	1.5	5.54
County Highway Agency	282	1,472	1.72	8.99
Town or Township Highway Agency				
City or Municipal Highway Agency	677.2	4,111	1.31	7.93
State Park, Forest, or Reservation Agency				
Local Park, Forest or Reservation Agency				
Other State Agency				
Other Local Agency				
Private (Other than Railroad)				
Railroad				
State Toll Authority				
Local Toll Authority	48	225	0.64	3
Other Public Instrumentality (e.g. Airport, School, University)	1.4	3.8	0.32	0.61
Indian Tribe Nation				

Safety Performance Targets

Safety Performance Targets

Calendar Year 2025 Targets *

Number of Fatalities:3567.0

Describe the basis for established target, including how it supports SHSP goals.

As a result of the Road-to-Zero (RTZ) Minute Order, the performance target for the number of fatalities is based on the 2019 crash data as the initial point, 50% of that number as the mid-point on the line (2035) and zero as the final point on the projected line for fatalities. These projections are illustrated in Figure 4.1 of the Texas Strategic Highway Safety Plan.

Number of Serious Injuries:17062.0

Describe the basis for established target, including how it supports SHSP goals.

In contrast to the projection methodology for fatalities, the suspected serious injury projection was calculated based on the five-year (2017-2021) trend in crash data. Based on the trend, the projected number of suspected serious injuries would be 19,296. Based on
the feedback from the EA teams and the Executive Committee, the target for suspected serious injuries is 18,910. Based on feedback from the Executive Committee and Management Team, the SHSP performance target for suspected serious injuries will be a 2%
decrease from the projected trend for each year with a goal of 18,910 in 2027. It should be noted that this is an aggressive goal since the state expects to see at least an initial increase in serious injuries as the fatalities decrease. The projections and targets are
illustrated in Figures 4.3 and 4.4 of the Texas Strategic Highway Safety Plan.

The number reported here is the target that was in place at the time of the NHTSA rule change with regard to target setting, which describes a process by which the target cannot increase from previous years; our methodology is under further review, so at this time we are reporting the same targets as are shown in the HSP.

Fatality Rate:1.280

Describe the basis for established target, including how it supports SHSP goals.

Based on the RTZ approach and the projection line, the number of fatalities is expected to be reduced by 113 each year to 1,804 in 2035. The rate was calculated based on the projected million vehicle miles travelled as estimated by TxDOT. The projected targets for the number of fatalities and the fatality rate per 100 MVMT are detailed in Figure 4.2 of the Texas Strategic Highway Safety Plan.

Serious Injury Rate:6.390

Describe the basis for established target, including how it supports SHSP goals.

In contrast to the projection methodology for fatalities, the suspected serious injury projection was calculated based on the five-year (2017-2021) trend in crash data. Based on the trend, the projected number of suspected serious injuries would be 19,296. Based on

the feedback from the EA teams and the Executive Committee, the target for suspected serious injuries is 18,910. Based on feedback from the Executive Committee and Management Team, the SHSP performance target for suspected serious injuries will be a 2%
decrease from the projected trend for each year with a goal of 18,910 in 2027. It should be noted that this is an aggressive goal since the state expects to see at least an initial increase in serious injuries as the fatalities decrease. The projections and targets are
illustrated in Figures 4.3 and 4.4 of the Texas Strategic Highway Safety Plan.

The number reported here is the target that was in place at the time of the NHTSA rule change with regard to target setting, which describes a process by which the target cannot increase from previous years; our methodology is under further review, so at this time we are reporting the same targets as are shown in the HSP.

Total Number of Non-Motorized Fatalities and Serious Injuries:2357.0

Describe the basis for established target, including how it supports SHSP goals.

Non-motorized users include pedestrians and bicyclists. Since these types of roadway users are particularly vulnerable, the SHSP performance metrics provide for a performance target that is unique to these groups. This is also important to the strategies and implementation planning since some countermeasures focused on pedestrians and bicyclists are unique to the vulnerable road user group, so they require a separate metric to assess progress.

As was previously described in the projected fatality part of this section, the Road-to-Zero (RTZ) Minute Order directs that the performance target for the number of fatalities is based on the 2019 crash data as the initial point, 50% of that number as the mid-point on the line (2035) and zero as the final point on the projected line for fatalities. The target number associated with non-motorized fatalities follows the same direction since it is included in the total number of fatalities. The SHSP combines the number of fatalities and suspected serious injuries related to nonmotorized users into one performance metric. To adequately project this metric and select
targets, the calculation was completed in two steps. First the number of non-motorized fatalities was projected using the same approach as the overall fatalities. To calculate the project trend line using the RTZ directive, the baseline was the 2019 data which was
reduced by 50% by 2035 and the final point on the line was zero fatalities in 2050. The second step was to calculate the trend in suspected serious injuries based on the previous five years' worth of data (2017-2021). A simple projection line was used to calculate the projections for this type of injury. The suspected serious injury target represents a 2% decrease in each of the next five years. Finally, the results of the two steps were combined to calculate the targets for non-motorized fatalities and injuries from the next five years (2022-2027). The calculated targets are provided in Figure 4.5 of the Texas Strategic Highway Safety Plan for each of those five years.

The number reported here is the target that was in place at the time of the NHTSA rule change with regard to target setting, which describes a process by which the target cannot increase from previous years; our methodology is under further review, so at this time we are reporting the same targets as are shown in the HSP.

Describe efforts to coordinate with other stakeholders (e.g. MPOs, SHSO) to establish safety performance targets.

In May of 2019, the Texas Transportation Commission (TTC) adopted Minute Order 115481, directing TxDOT to work toward the goal of reducing the number of deaths on Texas roadways by half by the year 2035 and to zero by the year 2050. TxDOT modified its performance measures and target calculations accordingly.

The calculations for the new targets were developed by dividing FY 2019 CRIS Fatalities (year the direction was provided by TTC) by the number of years left 2050. This afforded TxDOT to achieve 50 percent reduction of fatalities by 2035. As of 2035 the reduction in fatalities was recalculated in the same manner to achieve ZERO fatalities by 2050.

During the development of the new SHSP, TxDOT reached out to its stakeholders to advise them of this process and solicit input regarding methodology or concerns about the targets as calculated, and included this feedback in its official documentation of the SHSP development process.

Does the State want to report additional optional targets?

No

On May 30th, 2019, the Texas Transportation Commission adopted a formal goal to achieve zero deaths on our roadways by 2050 with a midway goal to cut fatalities in half by 2035.

Describe progress toward meeting the State's 2023 Safety Performance Targets (based on data available at the time of reporting). For each target, include a discussion of any reasons for differences in the actual outcomes and targets.

PERFORMANCE MEASURES	TARGETS	ACTUALS
Number of Fatalities	3682.0	4132.6
Number of Serious Injuries	17062.0	17523.6
Fatality Rate	1.380	1.457
Serious Injury Rate	6.390	6.162
Non-Motorized Fatalities and Serious Injuries	2357.0	2517.4

Based on the data available going into 2020, for several years there had been progress towards meeting the aspirational fatality targets established by the Road to Zero effort as ordered by the Texas Transportation Commission in May of 2019. There was considerable variability between the years 2020 and 2022 demonstrating unexpected increases even during the pandemic quarantine periods. Several reasons for this have been cited nationwide and not unique to Texas such as increase in speeding and distracted driving behaviors. Both of these emphasis areas have been carried through to the new 2023-2027 Texas SHSP.

Each of these targets is now calculated based on our commitment to the Road to Zero initiative, which requires drastic reductions in fatal and serious injury crashes in order to reach that goal. It will take time for the results of our efforts to be reflected in the actual crash counts, at which time we will see each of these disparities begin to narrow and then resolve in favor of the travelling public.

Applicability of Special Rules

Does the HRRR special rule apply to the State for this reporting period?

Yes

Does the VRU Safety Special Rule apply to the State for this reporting period?

Yes

Provide the number of older driver and pedestrian fatalities and serious injuries 65 years of age and older for the past seven years.

PERFORMANCE MEASURES	2017	2018	2019	2020	2021	2022	2023
Number of Older Driver and Pedestrian Fatalities	392	456	445	446	500	510	522
Number of Older Driver and Pedestrian Serious Injuries	1,153	986	1,068	952	1,232	1,323	1,346

Evaluation

Program Effectiveness

How does the State measure effectiveness of the HSIP?

- Change in fatalities and serious injuries

Based on the measures of effectiveness selected previously, describe the results of the State's program level evaluations.

Based on the measure of effectiveness selected previously, "Change in fatalities and suspected serious injuries," TxDOT's efforts over the last decade are making a significant difference in saving the lives of Texans and visitors to our great State. The new HSIP process as mentioned previously was implemented in FY 2021 and will take time to evaluate over the coming years once projects selected in the new process have been constructed. We are dismayed at the increase in crash counts seen in the last years nationwide, and TxDOT has taken aggressive steps forward in public messaging, driver education, and safety construction funding.

What other indicators of success does the State use to demonstrate effectiveness and success of the Highway Safety Improvement Program?

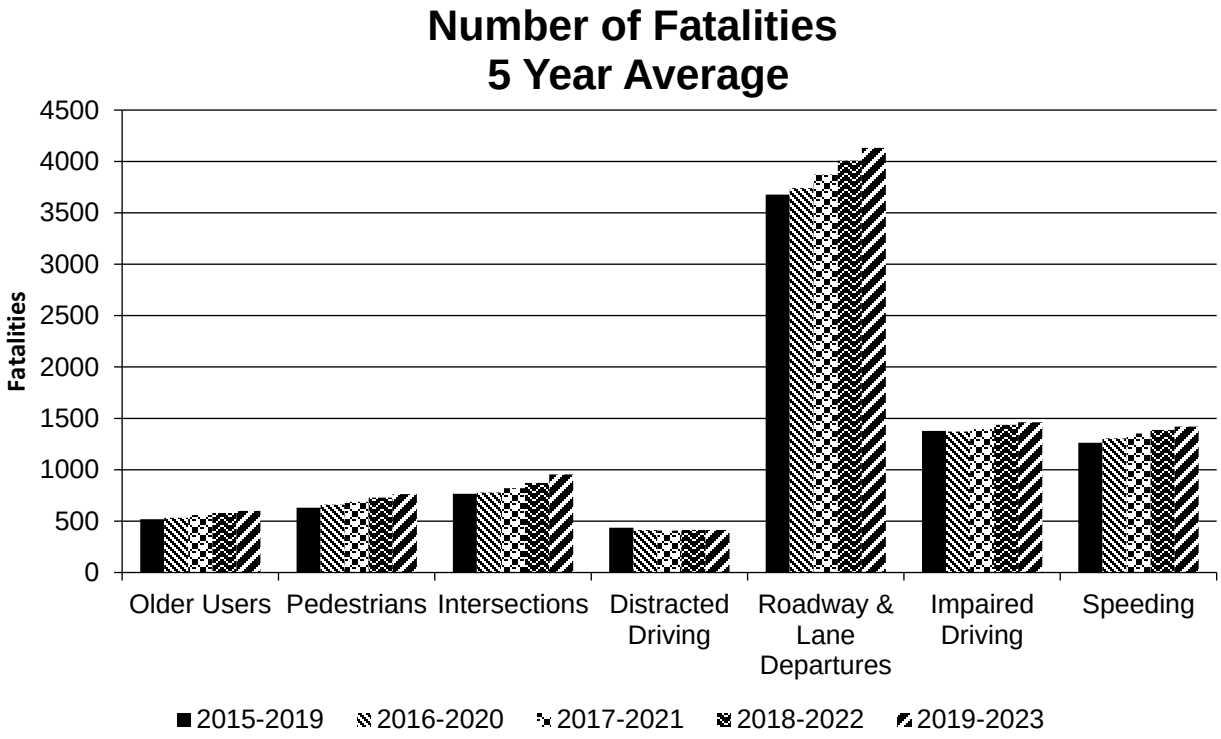
- # miles improved by HSIP
- Increased awareness of safety and data-driven process
- More systemic programs

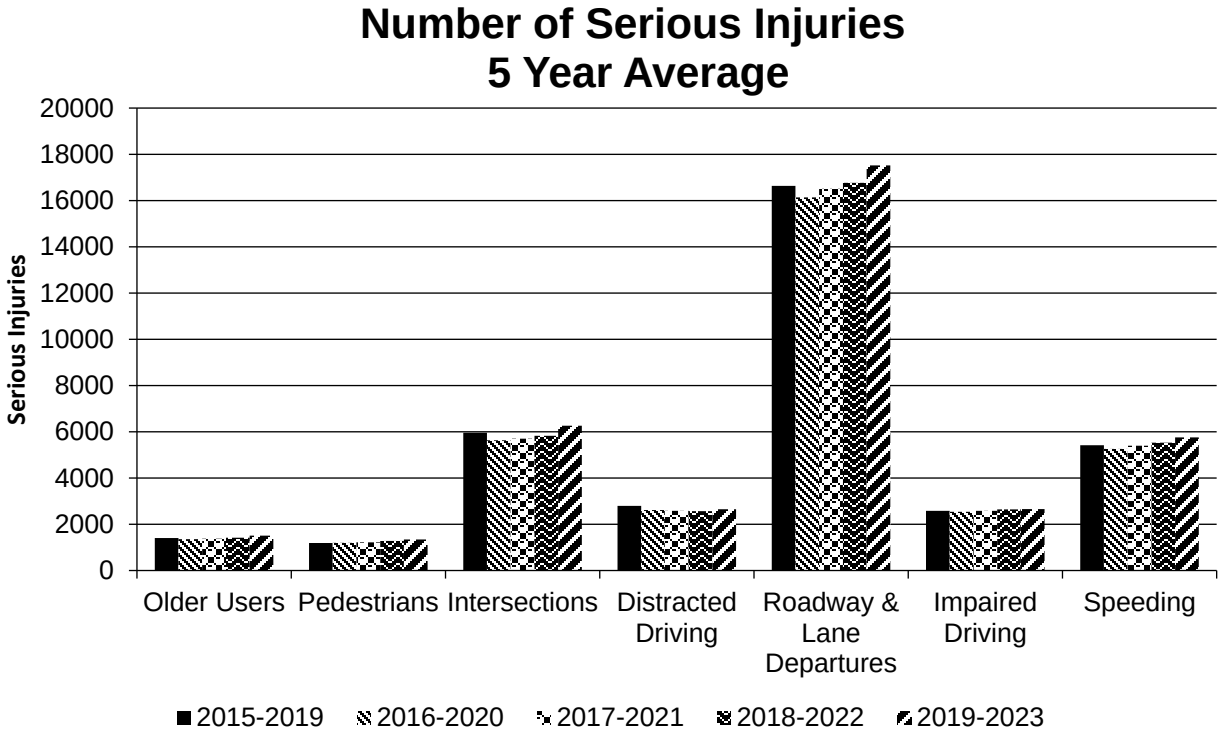
Effectiveness of Groupings or Similar Types of Improvements

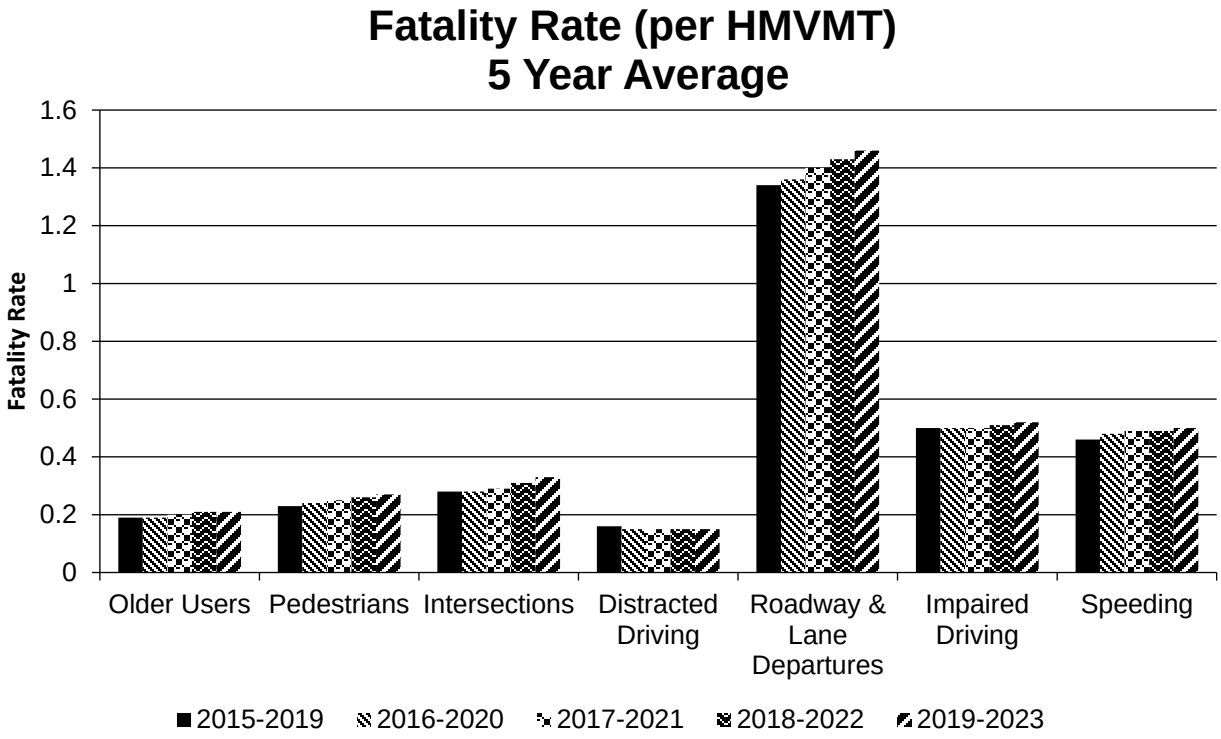
Present and describe trends in SHSP emphasis area performance measures.

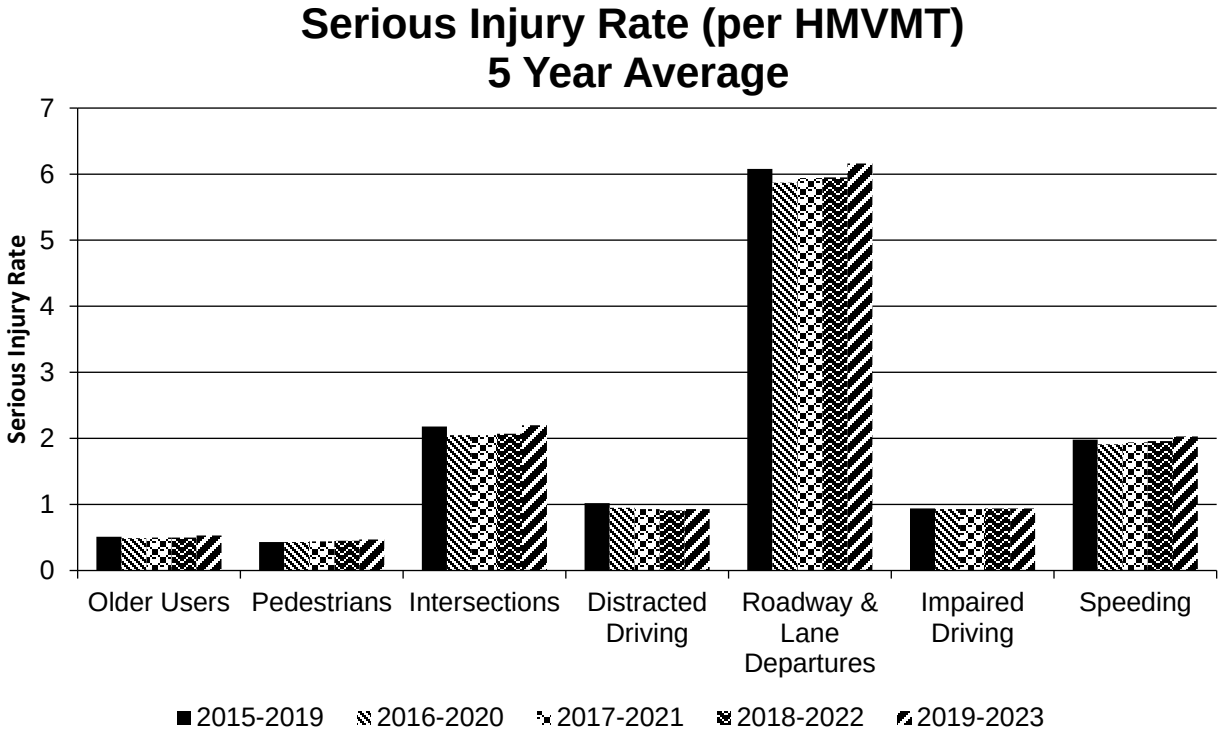
Year 2023

SHSP Emphasis Area	Targeted Crash Type	Number of Fatalities (5-yr avg)	Number of Serious Injuries (5-yr avg)	Fatality Rate (per HMVMT) (5-yr avg)	Serious Injury Rate (per HMVMT) (5-yr avg)
Older Users		599.6	1,506.6	0.21	0.53
Pedestrians		763.6	1,340	0.27	0.47
Intersections		954.2	6,259	0.33	2.2
Distracted Driving		414.4	2,652.6	0.15	0.93
Roadway & Lane Departures		4,132.6	17,523.6	1.46	6.16
Impaired Driving		1,461.4	2,654.6	0.52	0.94
Speeding		1,420.2	5,759	0.5	2.03


Number of Fatalities
5 Year Average
Fatalities
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Older Users
Pedestrians
Intersections
Distracted Driving
Roadway & Lane Departures
Impaired Driving
Speeding
2015-2019
2016-2020
2017-2021
2018-2022
2019-2023


Number of Serious Injuries
5 Year Average
Serious Injuries
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Older Users
Pedestrians
Intersections
Distracted Driving
Roadway & Lane Departures
Impaired Driving
Speeding
2015-2019
2016-2020
2017-2021
2018-2022
2019-2023


Fatality Rate (per HMVMT)
5 Year Average
Fatality Rate
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Older Users
Pedestrians
Intersections
Distracted Driving
Roadway & Lane Departures
Impaired Driving
Speeding
2015-2019
2016-2020
2017-2021
2018-2022
2019-2023


Serious Injury Rate (per HMVMT)
5 Year Average
Serious Injury Rate
7
6
5
4
3
2
1
0
Older Users
Pedestrians
Intersections
Distracted Driving
Roadway & Lane Departures
Impaired Driving
Speeding
2015-2019
2016-2020
2017-2021
2018-2022
2019-2023

Project Effectiveness

Provide the following information for previously implemented projects that the State evaluated this reporting period.

Compliance Assessment

What date was the State's current SHSP approved by the Governor or designated State representative?

07/25/2022

What are the years being covered by the current SHSP?

From: 2023 To: 2027

When does the State anticipate completing it's next SHSP update?

2027

Provide the current status (percent complete) of MIRE fundamental data elements collection efforts using the table below.

*Based on Functional Classification (MIRE 1.0 Element Number) [MIRE 2.0 Element Number]

ROAD TYPE	*MIRE NAME (MIRE NO.)	NON LOCAL PAVED ROADS - SEGMENT		NON LOCAL PAVED ROADS - INTERSECTION		NON LOCAL PAVED ROADS - RAMPS		LOCAL PAVED ROADS		UNPAVED ROADS	
		STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
ROADWAY SEGMENT	Segment Identifier (12) [12]	100	100					100	100		
	Route Number (8) [8]	100	100								
	Route/Street Name (9) [9]	100	100								
	Federal Aid/Route Type (21) [21]	100	100								
	Rural/Urban Designation (20) [20]	100	100					100	100		
	Surface Type (23) [24]	100						100			
	Begin Point Segment Descriptor (10) [10]										
	End Point Segment Descriptor (11) [11]										
	Segment Length (13) [13]	100	100								
	Direction of Inventory (18) [18]	100	100								
	Functional Class (19) [19]	100	100					100	100	100	100

ROAD TYPE	*MIRE NAME (MIRE NO.)	NON LOCAL PAVED ROADS - SEGMENT		NON LOCAL PAVED ROADS - INTERSECTION		NON LOCAL PAVED ROADS - RAMPS		LOCAL PAVED ROADS		UNPAVED ROADS	
		STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
	Median Type (54) [55]	100	80								
	Access Control (22) [23]	100	100								
	One/Two Way Operations (91) [93]	100	80								
	Number of Through Lanes (31) [32]	100	100					100	100		
	Average Annual Daily Traffic (79) [81]	100	100					100	100		
	AADT Year (80) [82]	100	100								
	Type of Governmental Ownership (4) [4]	100	100					100	100	100	100
INTERSECTION	Unique Junction Identifier (120) [110]			100	100						
	Location Identifier for Road 1 Crossing Point (122) [112]			100	100						
	Location Identifier for Road 2 Crossing Point (123) [113]			100	100						
	Intersection/Junction Geometry (126) [116]			90	90						
	Intersection/Junction Traffic Control (131) [131]										
	AADT for Each Intersecting Road (79) [81]			100	100						
	AADT Year (80) [82]			100	100						
	Unique Approach Identifier (139) [129]			50	50						
INTERCHANGE/RAMP	Unique Interchange Identifier (178) [168]					100	100				
	Location Identifier for Roadway at					100	100				

ROAD TYPE	*MIRE NAME (MIRE NO.)	NON LOCAL PAVED ROADS - SEGMENT		NON LOCAL PAVED ROADS - INTERSECTION		NON LOCAL PAVED ROADS - RAMPS		LOCAL PAVED ROADS		UNPAVED ROADS	
		STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE	STATE	NON-STATE
	Beginning of Ramp Terminal (197) [187]										
	Location Identifier for Roadway at Ending Ramp Terminal (201) [191]					100	100				
	Ramp Length (187) [177]					100	100				
	Roadway Type at Beginning of Ramp Terminal (195) [185]										
	Roadway Type at End Ramp Terminal (199) [189]										
	Interchange Type (182) [172]					80	80				
	Ramp AADT (191) [181]					100	100				
	Year of Ramp AADT (192) [182]					100	100				
	Functional Class (19) [19]					100	100				
	Type of Governmental Ownership (4) [4]					100	100				
Totals (Average Percent Complete):		**88.89**	**81.11**	**80.00**	**80.00**	**80.00**	**80.00**	**77.78**	**66.67**	**40.00**	**40.00**

*Based on Functional Classification (MIRE 1.0 Element Number) [MIRE 2.0 Element Number]

Describe actions the State will take moving forward to meet the requirement to have complete access to the MIRE fundamental data elements on all public roads by September 30, 2026.

TxDOT will continue to maintain and develop intersections/interchanges with associated attribution as the public roadway network continues to change. Access to this data will be made available through ArcGIS Online or TxDOT.gov. Additionally, we are continuing with the following efforts:

1. Through the Traffic Records Coordinating Council, we developed an Intersection sub-committee to gather various perspectives of building and maintaining an intersection inventory.

2. TxDOT has built a draft spatial inventory of intersections (i.e., points representing an intersection) inventory and developed a ‘crowd-sourcing’ application to help build up the attributes for those intersections.

3. TxDOT has purchased an ArcGIS add-in called “Intersection Manager” to help manage intersection data.

4. TxDOT is working with TTI to flesh out the details with an intersection inventory by piloting two counties in Central Texas to determine how to fill the gap between a) TxDOT’s automated intersection inventory generation process and b) TTI’s recent work on intersection safety analyses.

5. TxDOT has moved our statewide GIS efforts to the Planning division, ensuring additional support for this cross-divisional effort.

Optional Attachments

Program Structure:

2015 HSIP Manual downloaded 20190830 for AR.pdf
2020 HSIP Guidelines Rev1 October 2020.pdf
2021 HSIP Guidance Final.pdf
HSIP Guidelines Final Copy.pdf
2023 HSIP Guidelines.pdf
Project Implementation:

Safety Performance:

Evaluation:

Compliance Assessment:

Glossary

5 year rolling average: means the average of five individuals, consecutive annual points of data (e.g. annual fatality rate).

Emphasis area: means a highway safety priority in a State's SHSP, identified through a data-driven, collaborative process.

Highway safety improvement project: means strategies, activities and projects on a public road that are consistent with a State strategic highway safety plan and corrects or improves a hazardous road location or feature or addresses a highway safety problem.

HMVMT: means hundred million vehicle miles traveled.

Non-infrastructure projects: are projects that do not result in construction. Examples of non-infrastructure projects include road safety audits, transportation safety planning activities, improvements in the collection and analysis of data, education and outreach, and enforcement activities.

Older driver special rule: applies if traffic fatalities and serious injuries per capita for drivers and pedestrians over the age of 65 in a State increases during the most recent 2-year period for which data are available, as defined in the Older Driver and Pedestrian Special Rule Interim Guidance dated February 13, 2013.

Performance measure: means indicators that enable decision-makers and other stakeholders to monitor changes in system condition and performance against established visions, goals, and objectives.

Programmed funds: mean those funds that have been programmed in the Statewide Transportation Improvement Program (STIP) to be expended on highway safety improvement projects.

Roadway Functional Classification: means the process by which streets and highways are grouped into classes, or systems, according to the character of service they are intended to provide.

Strategic Highway Safety Plan (SHSP): means a comprehensive, multi-disciplinary plan, based on safety data developed by a State Department of Transportation in accordance with 23 U.S.C. 148.

Systematic: refers to an approach where an agency deploys countermeasures at all locations across a system.

Systemic safety improvement: means an improvement that is widely implemented based on high risk roadway features that are correlated with specific severe crash types.

Transfer: means, in accordance with provisions of 23 U.S.C. 126, a State may transfer from an apportionment under section 104(b) not to exceed 50 percent of the amount apportioned for the fiscal year to any other apportionment of the State under that section.