

## Memorandum

*Serious drought.  
Help save water!*

**To:** RIHUI ZHANG, CHIEF  
Division of Local Assistance

**Date:** November 16, 2018

**File:**

**From:** ROBERT W. PETERSON  
Chief, Office of Federal Programs  
Division of Local Assistance

**Subject:** HIGHWAY SAFETY IMPROVEMENT PROGRAM CYCLE 9 PROJECTS

Attached is the list of the projects selected for Cycle 9 funding of the Highway Safety Improvement Program (HSIP). These 221 projects, totaling approximately \$182 million in federal HSIP funds, will be programmed in the 2019 Federal Statewide Transportation Improvement Plan.

Among the 351 applications that were received from local agencies and tribes, 221 applications are selected for funding, either based on the Benefit Cost Ratio (BCR) ranking, or under the set-asides for Guardrail Upgrade, Pedestrian Crossing Enhancements, Horizontal Curve Signing, or Tribes. Based on the amount of HSIP funding available, the BCR cutoff for a BCR application to be selected for funding is 7.5. The remaining 130 applications were not selected for funding either due to their low BCRs or their ineligibility for HSIP funding.

Upon your approval, the Metropolitan Planning Organizations will be requested to amend their Federal Transportation Improvement Programs to include these projects for delivery as soon as possible. The District Local Assistance Engineers should notify all applicants the funding status of their applications.

It is recommended that you approve the attached list of HSIP Cycle 9 projects for funding.

APPROVED:



RIHUI ZHANG, Division Chief



Date

Attachment

Approved Project List, Highway Safety Improvement Program Cycle 9

RIHUI ZHANG, Division Chief

November 16, 2018

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- c: Robert Peterson, Office Chief, Federal Programs, Division of Local Assistance
- Winton Emmett, Office Chief, Project Implementation North, Division of Local Assistance
- John Hoole, Office Chief, Project Implementation South, Division of Local Assistance
- April Nitsos, Office Chief, State Programs, Division of Local Assistance
- District Local Assistance Engineers
- Chiu Liu/Richard Ke, HSIP Program Managers, Federal Programs, Division of Local Assistance

# Summary of HSIP Cycle 9 Projects

- Number of applications received: 351;  
Number of applications selected for funding: 221.
- Total HSIP funds requested by all applications: \$418.4 million;  
Total HSIP funds for the selected applications: \$181.8 million.
- Out of the 221 applications selected for funding,
  - 139 applications, totaling \$149.1 million of HSIP funds, were selected based on their Benefit Cost Ratios (BCRs). The BCR cutoff for an application to be selected for funding is 7.5. The average BCR of the selected applications is 15.5;
  - 82 applications, totaling \$32.7 million of HSIP funds, were selected for funding under the set-asides for Guardrail Upgrade, Pedestrian Crossing Enhancements, Horizontal Curve Signing, or Tribes.
- 7 tribes submitted 9 applications in Cycle 9. This is the first time ever that tribes have submitted HSIP applications. Out of the 9 applications submitted, 6 were selected for funding, totaling \$1.2 million of HSIP funds.
- Local Assistance established Systemic Safety Analysis Report Program (SSARP) in 2016. In Cycle 9, 79 applications came from the SSARP; 58 are selected for funding.
- The types of safety projects include but are not limited to:
  - **Safety improvements at intersections**, such as new signals (11 intersections), roundabouts (2 intersections), all-way stop conversion (2 intersections), converting signals to master arm (23 intersections), dilemma zone detection (132 intersections), providing left-turn phases and/or lanes (95 intersections), signal hardware improvements (662 intersections), intersection lighting (7 intersections), flashing beacons (153 intersections), median installations (4 intersections), and other intersection safety improvements (signing/marketing/upgrade) (307 intersections);
  - **Pedestrian/bike projects**, such as pedestrian countdown signal heads (463 intersections), sidewalks (2.3 miles), pedestrian hybrid beacons (23 crossings), , bike lanes (18.5 miles), Rectangular Rapid Flashing Beacons (RRFBs) (54 intersections), Leading Pedestrian Interval (LPI) implementation (215 intersections), new crosswalks (53 intersections), and safety enhancements of existing pedestrian crossings (1,221 intersections) ;
  - **Roadway safety improvements**, such as roadway safety sign audits (266.0 miles), advance curve warning signing (134.7 miles), flashing beacons (23.0 miles), High Friction Surface Treatment (HFST) installations (6.3 miles), rumble strips/strips

(48.7 miles), edge/center lines (286.6 mile), medians (16.4 miles), new guardrails or guardrail upgrades (70.5 miles), and lighting (3.7 miles).

The below table provides a summary of HSIP Cycle 9 Funding Distribution by Caltrans Districts.

### HSIP Cycle 9 Funding Distribution

Caltrans District	Number of Projects	HSIP Funds (\$ million)
1	2	\$1.3
2	5	\$4.2
3	32	\$29.6
4	38	\$37.9
5	16	\$8.7
6	21	\$20.9
7	28	\$15.8
8	29	\$28.0
9	4	\$1.2
10	15	\$8.7
11	21	\$17.6
12	10	\$7.9
<b>Total</b>	<b>221</b>	<b>\$181.8</b>

### Approved Project List for Highway Safety Improvement Program (HSIP) Cycle 9

\* Application Category: **BCR** = Benefit-Cost Ratio; **Guardrail** = Set-aside for Guardrail Upgrade; **Curve Signing** = Set-aside for Horizontal Curve Signing; **Pedestrian Crossing** = Set-aside for Pedestrian Crossing Enhancements; **Tribes** = Set-aside for Tribes.

No.	Unique Project ID	Original Application ID	Caltrans District	Agency Name	MPO	Location of Work	Description of Work	Project Cost	Federal Funds	Application Category*
64	H9-04-025	04-Pittsburg-1	4	Pittsburg	MTC	Various locations throughout the City of Pittsburg.	Improve signal hardware (signal heads, backplates, controllers, BBS, UPS, modems, cabinets, etc) and improve signal timing.	\$ 1,110,000	\$ 1,065,600	BCR
65	H9-04-026	04-Rio Vista-1	4	Rio Vista	MTC	Four (4) pedestrian crossings at the following intersections: S 2nd and Marina Dr (Riverview Junior High); DH White Elementary School and Thereza Way; DH White Elementary School and Laurel Way; and S 7th St and Main St.	Enhance pedestrian crossings by the addition of ADA curb ramp, curb extensions, advance yield signs and lines, Rectangular Rapid Flashing Beacons (RRFBs) and other relevant elements.	\$ 249,100	\$ 249,100	Pedestrian Crossing
66	H9-04-027	04-San Jose-2	4	San Jose	MTC	Monterey Road between Skyway Drive and Palm Avenue.	Upgrade guardrails that are damaged and not up to current standards.	\$ 1,002,800	\$ 1,000,000	Guardrail
67	H9-04-028	04-San Leandro-1	4	San Leandro	MTC	The intersection of Wicks Blvd and Manor Blvd.	Install southbound and northbound left-turn signals; Upgrade signal heads and signal equipment; Install video detections for cars and bikes and advance detection; Install Accessible Pedestrian Signal (APS); Upgrade wheelchair Ramps.	\$ 359,900	\$ 323,910	BCR
68	H9-04-029	04-San Pablo-1	4	San Pablo	MTC	The Intersections of Church Lane and Willow Road and El Portal Drive and Mission Bell Road.	Install pedestrian crossing enhancements and illumination.	\$ 1,015,600	\$ 914,040	BCR
69	H9-04-030	04-San Rafael-1	4	San Rafael	MTC	Five (5) signalized intersections of Third Street at Lindaro Street, Lincoln Avenue, Tamalpais Avenue, Irwin Street and Grand Street.	Construct high-visibility crosswalks, install advanced stop bars, and install pedestrian countdown signals at five intersections; and add signal mast arms at three locations.	\$ 1,575,000	\$ 1,575,000	BCR
70	H9-04-031	04-South San Francisco-2	4	South San Francisco	MTC	Three (3) non-signalized intersections: W. Orange Ave at N. Canal St, W. Orange Ave at Myrtle Ave, and Hillside Blvd at Franklin Ave.	Construct pedestrian improvements including RRFB, advanced pedestrian crosswalk, and ADA curb ramps.	\$ 204,800	\$ 204,800	Pedestrian Crossing
71	H9-04-032	04-St Helena-1	4	St Helena	MTC	Silverado Trail, with the project limits bordering Napa County, beginning from approximately 175 feet north of Howell Mountain Road and ending at the southern City limits (1,475 feet total).	Upgrade approximately 1,175 lineal feet of existing guardrail and wood posts with new steel posts, new metal guardrail beams and guardrail delineators.	\$ 556,100	\$ 556,100	Guardrail
72	H9-04-033	04-Suisun City-1	4	Suisun City	MTC	Three (3) pedestrian crossings, including: on Merganser Dr between Sunset Ave and Wigeon Way; the intersection of Pintail Dr. and Scoter Way; and on Lawler Ranch Pkwy between Fennie Way and Hillborn Way.	Enhance pedestrian crossings by the addition of ADA curb ramp, RRFB system, yield lines and signs, and other relevant elements.	\$ 248,100	\$ 248,100	Pedestrian Crossing
73	H9-04-034	04-Sunnyvale-1	4	Sunnyvale	MTC	Sixteen (16) locations throughout the City of Sunnyvale	Install video detection equipment to provide advance dilemma zone detection.	\$ 1,298,000	\$ 1,298,000	BCR
74	H9-04-035	04-Vacaville-1	4	Vacaville	MTC	Twenty-one (21) intersections in the City of Vacaville.	Improve signal hardware and timing ; install Advanced Dilemma-Zone Detection.	\$ 2,477,700	\$ 2,477,700	BCR
75	H9-04-036	04-Vacaville-2	4	Vacaville	MTC	The intersections of Browns Valley Rd with Waterford/Clarecastle Way and Marshall Rd. with Southside Bikeway.	Construct pedestrian crossing enhancements such as advanced pedestrian warnings and signs as well as Rectangular Rapid Flashing Beacons (RRFBs).	\$ 226,100	\$ 226,100	Pedestrian Crossing
76	H9-04-037	04-Vallejo-1	4	Vallejo	MTC	Six (6) pedestrian crossings at the intersections of Broadway at Hogan, Springs at Tregaskis, Broadway at Illinois, Springs at Heartwood, Springs at Lassen/Hilton, and Broadway at Hampshire.	Install High-Intensity Activated Crosswalk beacon (HAWK) at unsignalized intersections.	\$ 1,305,800	\$ 1,305,800	BCR
77	H9-04-038	04-Vallejo-2	4	Vallejo	MTC	Five (5) intersections including: Foothill Dr at Redwood Pkwy, Valle Vista Ave at Redwood St, Fairview Ave at Redwood St, Howard Ave at Redwood St, and Solano Ave at Tuolumne St.	Construct pedestrian crossing enhancements such as advanced pedestrian warnings and signs as well as Rectangular Rapid-Flashing Beacons (RRFBs).	\$ 246,000	\$ 246,000	Pedestrian Crossing