

**GL: Safety Improvements – Highway Safety Improvement
Program
(TIP ID – VAR170002)**

Last updated with 2021 TIP Update

**Highway Safety Improvement Program (HSIP)
2019 FTIP Back-Up List, sorted by MPO, Agency and Unique Project ID**

MPO:					MTC										
Backup List Updated On:					12/13/2019										
Unique Project ID	HR3 Eligibility *	District	Agency	MPO	Project Location	Description of Work	Current Total Project Cost Estimate	Current Programmed Federal Funds	Other/Local Funds	Federal Funds Programmed under "Prior"	Federal Funds Programmed in 2018/19	Federal Funds Programmed in 2019/20	Federal Funds Programmed in 2020/21	Federal Funds Programmed in 2021/22	Approved Federal Funds
H8-04-001&002	Yes	4	Alameda County	MTC	Redwood Road between Marciel Rd and Camino Alta Mira in Castro Valley, and Palomares Rd between Palo Verde Rd and Highway 84.	Pave existing shoulders and provide law enforcement pullout areas to control vehicles speeding along the corridors.	\$418,000	\$376,200	\$41,800	\$63,000	\$313,200	\$0	\$0	\$0	\$376,200
H8-04-003	No	4	Alameda County	MTC	Fairmont Drive between Lake Chabot Road and 2700 Fairmont Drive in Castro Valley.	Install guardrails.	\$908,800	\$908,800	\$0	\$80,300	\$0	\$828,500	\$0	\$0	\$908,800
H9-04-001	No	4	Alameda County	MTC	Various unsignalized intersections in unincorporated Alameda County.	Install/upgrade larger or additional stop signs or other warning/regulatory signs; add intersection lighting; add pedestrian crossing with enhanced safety features.	\$1,942,400	\$485,600	\$0	\$0	\$0	\$0	\$0	\$485,600	\$1,942,400
H9-04-002	No	4	Alameda County	MTC	Various signalized intersections throughout Alameda County; urban and suburban contexts.	Install mast arms; install signal hardware improvements such as additional signal heads, reflective backplates; install leading pedestrian interval.	\$2,493,900	\$623,475	\$0	\$0	\$0	\$0	\$0	\$623,475	\$2,493,900
H9-04-003	No	4	Alameda County	MTC	Crow Canyon Road, Palomares Road, North Vasco Road, and Altamont Pass Road in unincorporated Alameda County.	Widen paved shoulders, construct edgeline rumble strips, and install chevron signs and delineators.	\$1,812,700	\$407,857.50	\$181,270	\$0	\$0	\$0	\$0	\$407,857.50	\$1,631,430
H9-04-004	No	4	Alameda County	MTC	Ten (10) locations along Tesla Road between Eagles Run Road and McLaughlin Road.	Upgrade guardrail.	\$471,300	\$117,825	\$0	\$0	\$0	\$0	\$0	\$117,825	\$471,300
H9-04-005	No	4	Benicia	MTC	Twenty-eight (28) guardrail locations within Benicia.	Upgrade existing guardrails and the end treatments.	\$996,000	\$249,000	\$0	\$0	\$0	\$0	\$0	\$249,000	\$996,000
H9-04-006	No	4	Benicia	MTC	The intersections of West 5th St. with Military West and Hasting Dr. with London Dr.	Enhance pedestrian crossings by installing ADA curb ramp, RRFB system, median island, and sidewalk, and other relevant elements.	\$259,100	\$62,500	\$9,100	\$0	\$0	\$0	\$0	\$62,500	\$250,000
HSIP7-04-001	No	4	Benicia	MTC	The intersection of East 5th Street and Vecino Street, and along East 5th Street between I-780 and Vecino Street	Construct a bulb-out and crosswalk with flashing beacons on East 5th Street @ Vecino Street and extend the eastern sidewalk of East 5th Street to I-780 along with adding two new roadway lights	\$470,600	\$423,540	\$47,060	\$57,600	\$0	\$0	\$0	\$365,940	\$423,540
HSIP7-04-002	No	4	Benicia	MTC	The intersection of Military West, West 7th Street, Carolina Drive, and Buena Vista	Replace traffic signal to add protected lefts on Military West; upgrade five (5) pedestrian crosswalks, and upgrade controller cabinet	\$281,200	\$253,080	\$28,120	\$29,700	\$0	\$0	\$0	\$223,380	\$253,080
H9-04-007	No	4	Brisbane	MTC	Guadalupe Canyon Pkwy between Bayshore Blvd and western city limit.	Install edgeline rumble stripes, bike lane markings, and signage; restripe lane and median markings to widen median; install centerline rumble stripes; upgrade existing flashing beacons with solar-powered LED flashing	\$120,300	\$108,270	\$12,030	\$0	\$108,270	\$0	\$0	\$0	\$108,270
HSIP6-04-002	No	4	Campbell	MTC	Harriet Avenue between Westmont Avenue and north city limits	Install pedestrian hybrid beacon; construct curb, gutter, sidewalk, and curb ramps; widen sidewalk; install traffic signs, stripes, and pavement markings	\$574,400	\$516,900	\$57,500	\$59,400	\$457,500	\$0	\$0	\$0	\$516,900
H9-04-008	No	4	Concord	MTC	Various locations.	Improve signal hardware (lenses, backplates, mountings, size, number), upgrade cabinet equipment, controllers and modify phasing to provide a Lead Pedestrian Interval (LPI).	\$2,460,800	\$2,386,976	\$73,824	\$0	\$0	\$0	\$0	\$2,386,976	\$2,386,976
H8-04-004	No	4	Contra Costa County	MTC	Intersections of Olympic Boulevard at Bridgefield Road and Walden Road at Westcliffe Lane (unincorporated Walnut Creek area).	Construct ADA curb ramp, curb, gutter, and sidewalk; Install Rectangular Rapid Flashing Beacons (RRFBs).	\$289,400	\$224,400	\$65,000	\$40,000	\$184,400	\$0	\$0	\$0	\$224,400
H8-04-005	No	4	Contra Costa County	MTC	Marsh Creek Road from the City of Clayton limits to Camino Diablo, Vasco Road from Walnut Boulevard to the Alameda County line, and San Pablo Dam Road from City of Richmond limits to Bear Creek Road.	Upgrade existing guardrails.	\$1,293,200	\$1,293,200	\$0	\$153,600	\$1,139,600	\$0	\$0	\$0	\$1,293,200
H8-04-006	No	4	Contra Costa County	MTC	Danville Boulevard between Stone Valley Road and Jackson Way in unincorporated Alamo of Contra Costa County.	Construct a roundabout at the intersection of Danville Boulevard and Orchard Court in addition to street improvements, such as sidewalk improvements and curb extensions.	\$2,978,000	\$2,718,000	\$260,000	\$485,000	\$0	\$2,233,000	\$0	\$0	\$2,718,000
H8-04-007	No	4	Contra Costa County	MTC	San Pablo Dam Road between the Richmond City Limits and Bear Creek Road/Wildcat Canyon Road.	Install centerline rumble strips along 4.6 miles of two-lane, winding roadway; upgrade regulatory and warning signs; reconstruct median island curbs; install lane channelizers along the centerline.	\$760,800	\$760,800	\$0	\$135,800	\$0	\$625,000	\$0	\$0	\$760,800

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H8-04-008	No	4	Contra Costa County	MTC	Byron Highway approx. 350 feet south of Byer Road to Hoffman Lane, adjacent to Excelsior Middle School in unincorporated Byron.	Install southbound left-turn lane on Byron Highway on to Byer Road; Construct a two-way left turn lane to improve access at Excelsior Middle School; and widen roadway to provide paved shoulders.	\$1,046,000	\$616,730	\$429,270	\$108,500	\$0	\$508,230	\$0	\$0	\$616,730
H9-04-009	No	4	Contra Costa County	MTC	Kirker Pass Road between the city limits of Concord and Pittsburg.	Install intersection lighting at two intersections, install protective guardrail along the top of embankment, and install delineators/reflectors along the K-rail median.	\$1,280,000	\$1,280,000	\$0	\$0	\$0	\$0	\$0	\$1,280,000	\$1,280,000
H9-04-010	No	4	Contra Costa County	MTC	Various locations on arterials and major collector roadways in the Crockett area.	Upgrade sub-standard MBGR guardrails to Caltrans standard MGS guardrails and end treatments on arterials and major collector roadways (approximately 41 guardrails with a length of over 12,000 linear feet)	\$1,696,500	\$999,963	\$696,537	\$0	\$0	\$0	\$999,963	\$0	\$999,963
HSIP7-04-005	No	4	Contra Costa County	MTC	On San Pablo Dam Road between Appian Way and Clark Road, within the unincorporated El Sobrante area.	Construct curb, gutter, and sidewalk	\$906,300	\$613,920	\$292,380	\$108,750	\$0	\$0	\$505,170	\$0	\$613,920
HSIP7-04-006	No	4	Contra Costa County	MTC	Byron Highway between Byron Hot Springs Road and Contra Costa/Alameda County Line, within the unincorporated Byron area.	Restripe centerline with double yellow no passing lines, install centerline rumble strips, and upgrade signs	\$515,000	\$515,000	\$0	\$92,000	\$0	\$0	\$0	\$423,000	\$515,000
HSIP7-04-007	No	4	Contra Costa County	MTC	Located on Marsh Creek Road between the city limits of Clayton and Brentwood. The project length is approximately 14 miles.	Install centerline rumble strips/strips; Add lighting at Deer Valley Road and Marsh Creek Road intersection	\$1,268,000	\$1,268,000	\$0	\$212,000	\$0	\$0	\$1,056,000	\$0	\$1,268,000
H9-04-011	No	4	Cupertino	MTC	The intersection of Homestead Rd and N De Anza Blvd.	Upgrade existing pedestal-mounted signal to signal on mast arm.	\$213,300	\$213,300	\$0	\$0	\$0	\$0	\$0	\$213,300	\$213,300
H9-04-012	No	4	Fairfield	MTC	14 signalized intersections including N Texas St at Tabor, Travis, Walmart, Atlantic/Cement Hill; Travis Blvd at 2nd, Pennsylvania, Webster, Union, Holiday, Fairfield, Solano Mall, Oliver; Oliver at Woodcreek; and Gateway at	Install Adaptive Signal Timing and advanced dilemma-zone detection, and enhance the visibility of signals.	\$1,870,300	\$233,787.50	\$935,150	\$0	\$0	\$0	\$0	\$233,787.50	\$935,150
H9-04-013	No	4	Fairfield	MTC	Twenty-five (25) locations.	Upgrade existing guardrails and their end treatments.	\$655,400	\$163,850	\$0	\$0	\$0	\$0	\$0	\$163,850	\$655,400
H9-04-014	No	4	Fairfield	MTC	Five non-signalized intersections, including: N Texas St at Oak St; Pennsylvania Ave at Empire St; N Texas St at Wisconsin St; Travis Blvd at Phoenix Dr; and Travis Blvd at Clay St.	Construct pedestrian crossing enhancements including HAWK installation accompanied by ADA curb ramp, and relevant signs and pavement markings.	\$1,348,100	\$306,692.75	\$121,329	\$0	\$0	\$0	\$0	\$306,692.75	\$1,226,771
H8-04-009	No	4	Fremont	MTC	Fremont Blvd. at the intersections of Mowry Ave. and Stevenson Blvd.	Install 8 pedestrian and bicycle refuge areas (4 at each intersection); remove 8 right-turn slip lanes; relocate signals at intersections to accommodate new refuge areas.	\$1,440,500	\$1,296,450	\$144,050	\$67,500	\$1,228,950	\$0	\$0	\$0	\$1,296,450
H9-04-015	No	4	Los Gatos	MTC	Guardrail locatoins on Blossom Hill Road, Cleland Avenue, Los Gatos Boulevard, Miles Avenue, More Avenue, Reservoir Road, and Santa Rosa Drive.	Upgrade the existing non-conforming and/or damaged guardrails.	\$980,100	\$980,100	\$0	\$0	\$0	\$0	\$980,100	\$0	\$980,100
H8-04-010	No	4	Marin County	MTC	Various rural arterial and collector roads.	Upgrade existing guardrails.	\$1,200,000	\$1,200,000	\$0	\$136,000	\$0	\$1,064,000	\$0	\$0	\$1,200,000
H8-04-011	No	4	Marin County	MTC	Various rural arterial and collector roadways	Install guardrail system	\$429,000	\$386,100	\$42,900	\$67,500	\$0	\$318,600	\$0	\$0	\$386,100
H9-04-016	No	4	Marin County	MTC	Fifty-one (51) signalized intersections throughout Marin County, including unincorporated Marin County and within 11 incorporated cities and towns.	Install pedestrian countdown heads, pedestrian push buttons, 12" LED signal heads, signal head backplates and advanced dilemma zone detections.	\$2,800,300	\$700,075	\$0	\$0	\$0	\$0	\$0	\$700,075	\$2,800,300
H9-04-017	No	4	Marin County	MTC	Locations on Various rural arterials and major collector roadways in the County of Marin.	Upgrade nonstandard guardrails.	\$961,200	\$240,300	\$0	\$0	\$0	\$0	\$0	\$240,300	\$961,200
HSIP7-04-010	No	4	Marin County	MTC	Lucas Valley Road at PM 5.08	Improve roadway curve alignment at Mile Post 5.08	\$1,350,000	\$1,207,500	\$142,500	\$198,000	\$0	\$0	\$1,009,500	\$0	\$1,207,500
HSIP7-04-011	No	4	Marin County	MTC	Arterials and rural collector roadways	Sign inventory, roadway safety sign audit and signing upgrade project	\$605,000	\$544,500	\$60,500	\$202,500	\$0	\$0	\$0	\$342,000	\$544,500
H8-04-012	No	4	Mountain View	MTC	Intersection of Shoreline Blvd. at Villa St.	Upgrade existing traffic signal; add protected left turn phase on minor street approaches; install new pedestrian crosswalk; remove existing channelized free right turn and "pork chop" island; construct curb, gutter,	\$608,800	\$400,725	\$208,075	\$0	\$400,725	\$0	\$0	\$0	\$400,725
H9-04-018	No	4	Napa County	MTC	Silverado Trail, MM 00.00-11.00.	Upgrade existing guardrail on Silverado Trail to meet the current standards.	\$999,400	\$999,400	\$0	\$0	\$999,400	\$0	\$0	\$0	\$999,400

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H9-04-019	No	4	Napa County	MTC	Silverado Trail north of Trancas St and south of HWY 29, excluding portions within and managed by City of St. Helena, City of Calistoga, and Caltrans jurisdictions.	Install rumble strips/stripes, center lines and shoulder striping on both north-bound and south-bound sides of Silverado trail, approximately 33.4 miles northernmost point to southernmost point.	\$1,744,000	\$1,744,000	\$0	\$0	\$1,744,000	\$0	\$0	\$0	\$1,744,000
H9-04-020	No	4	Novato	MTC	Diablo Avenue/De Long Avenue corridor between Novato Boulevard and Reichert Avenue.	Improve pedestrian crosswalks throughout the corridor, install advanced dilemma zone detection at two key intersections, and provide an advance flashing beacon at upstream of an intersection with an arterial roadway.	\$1,146,300	\$1,146,300	\$0	\$0	\$0	\$0	\$0	\$1,146,300	\$1,146,300
H8-04-013	No	4	Oakland	MTC	On Bancroft Avenue in the City of Oakland between Havenscourt Boulevard and 98th Street	Install HAWKS and RRFBs at eleven locations along the corridor; install signal mast arms at three locations; and install a landscape at the northeast corner of Bancroft and 67th Street.	\$4,770,700	\$3,595,300	\$1,175,400	\$702,374	\$0	\$2,892,926	\$0	\$0	\$3,595,300
H8-04-016	No	4	Oakland	MTC	High Street from San Leandro Street to I-580.	Construct crossing enhancements, signal placement improvements, and new pedestrian signal countdown heads.	\$2,097,300	\$1,580,570	\$516,730	\$365,506	\$0	\$1,215,064	\$0	\$0	\$1,580,570
H8-04-017	No	4	Oakland	MTC	Intersections in Downtown Oakland in the area bounded by Broadway, 9th Street, Harrison Street, and 7th Street, and the intersection of 10th Street and Harrison Street.	Construct safety improvements at 13 intersections, including signal mast arms, vehicle/bicycle detection, accessible pedestrian signal upgrade, and other improvements.	\$629,400	\$527,040	\$102,360	\$93,783	\$433,257	\$0	\$0	\$0	\$527,040
H8-04-018	No	4	Oakland	MTC	Twenty-seven (27) existing guardrails on roadways in the Oakland hills.	Upgrade existing guardrails.	\$1,198,500	\$1,003,570	\$194,930	\$178,356	\$825,214	\$0	\$0	\$0	\$1,003,570
H9-04-021	No	4	Oakland	MTC	Foothill Blvd between Harrington Ave and Cole St, and MacArthur Blvd between 69th and 96th Ave.	Construct bulbouts, pedestrian median refuge islands, crosswalk enhancements, Rectangular Rapid Flashing Beacons (RRFBs), signs and striping.	\$1,217,700	\$1,095,930	\$121,770	\$0	\$0	\$0	\$0	\$1,095,930	\$1,095,930
H9-04-022	No	4	Oakland	MTC	Four (4) uncontrolled crosswalks along minor arterials at the following three intersections: 7th Street & Filbert Street; Oakland Avenue & Moss Avenue; and 98th Avenue & C Street.	Install flashing beacons, pavement markings and signs; construct a median island, curb ramps and bulb outs.	\$282,300	\$250,000	\$32,300	\$0	\$0	\$0	\$0	\$250,000	\$250,000
HSIP7-04-015	No	4	Oakland	MTC	Market Street between 4th and 7th Sts & 18 to 19 Sts; Intersections at Market St at 14, 16, 21 Sts; San Pablo Avenue at 32, Brockhurst, and 34 Sts	Stripe and sign bike improvements on Market between 4-7 Sts and 18-19 Sts; install uncontrolled crosswalk enhancements, such as RRFBs, ladder striping, raised bulb-outs, and raised median refuges at multiple locations	\$1,584,300	\$1,425,870	\$158,430	\$183,600	\$0	\$0	\$1,242,270	\$0	\$1,425,870
HSIP7-04-017	No	4	Oakland	MTC	Signalized intersections in Downtown: 10th/Oak, 10th/Jackson, 10th/Harrison, 11th/Jackson, 11th/Harrison, 12th/Franklin, 12th Ped Signal, 13th/Franklin, 17th/Franklin, 19th/Franklin	Upgrade existing deficient signals for pedestrian safety to include countdown signals accessible pedestrian signals	\$565,600	\$509,040	\$56,560	\$65,700	\$0	\$0	\$0	\$443,340	\$509,040
H8-04-019	Yes	4	Palo Alto	MTC	Page Mill Road between the City Limits (Mile Marker 0.0 to Mile Marker 4.5).	Improve curve superelevations and install new guardrails along several turns.	\$1,051,300	\$946,170	\$105,130	\$0	\$0	\$946,170	\$0	\$0	\$946,170
H9-04-023	No	4	Petaluma	MTC	Various intersection throughout the City of Petaluma.	Install Rectangular Rapid Flashing Beacons (RRFBs) at various uncontrolled marked crosswalks.	\$248,900	\$248,900	\$0	\$0	\$248,900	\$0	\$0	\$0	\$248,900
H9-04-024	No	4	petaluma	MTC	Various intersections; and Petaluma Blvd North near Gossage Ave.	Install upgrades to signal hardware at various intersections; and install new guardrail along Petaluma Blvd North.	\$376,100	\$376,100	\$0	\$0	\$376,100	\$0	\$0	\$0	\$376,100
H8-04-020	No	4	Pittsburg	MTC	Stoneman Avenue from Harbor Street to Loveridge Road	Install pedestrian HAWK Signals, intersection striping/signage improvements, and two variable speed signs (at approaches to Stoneman Ave/Meadowbrook Ave).	\$880,000	\$880,000	\$0	\$158,000	\$0	\$722,000	\$0	\$0	\$880,000
H9-04-025	No	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	\$44,400	\$0	\$0	\$0	\$0	\$1,065,600	\$1,065,600
HSIP7-04-018	No	4	Pittsburg	MTC	West Leland Road Corridor between Bailey Road and Montevideo Drive; Intersections of Railroad/California Ave and E. Leland/Loveridge Ave	Install dynamic/variable speed warning signs and centerline rumble strips; provide protected left turn and raised pavement markers and striping; and provide High Friction Surface Treatment	\$1,251,500	\$1,190,620	\$60,880	\$208,500	\$0	\$0	\$0	\$982,120	\$1,190,620
H9-04-026	No	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	\$0	\$0	\$0	\$0	\$0	\$249,100	\$249,100

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HSIP7-04-021	No	4	San Francisco	MTC	Up to 345 intersections at various locations in the northeast quadrant of San Francisco.	The project will retime up to 345 traffic signals in the northeast quadrant of San Francisco, which includes 251 intersections in the North of Market (NOMA) area and 94 intersections in the South of Market (SOMA) area	\$3,741,900	\$3,741,900	\$0	\$1,346,000	\$0	\$0	\$2,395,900	\$0	\$3,741,900
H8-04-021	No	4	San Jose	MTC	Senter Road between Story Road/Keyes Street and Singleton Road.	Install buffered bike lanes, a raised median island, and general improvements to enhance safety, visibility, and calm vehicle speeds along the corridor.	\$4,042,600	\$2,959,110	\$404,260	\$679,230	\$0	\$2,959,110	\$0	\$0	\$3,638,340
H8-04-022	No	4	San Jose	MTC	White Road between Penitencia Creek Road and Rose Avenue.	Install buffered bike lanes, enhanced crosswalks, flashing beacons, additional streetlights, and general improvements to enhance safety, visibility, and calm vehicle speeds along the corridor.	\$1,359,400	\$1,223,460	\$135,940	\$218,430	\$0	\$1,005,030	\$0	\$0	\$1,223,460
H9-04-027	No	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	\$2,800	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000
HSIP7-04-022	No	4	San Jose	MTC	On McLaughlin Avenue between Interstate 280 and Capitol Expressway.	Install flashing beacons, bulb-outs, enhanced crosswalks, median island, additional streetlights, and general improvements	\$2,793,300	\$2,513,970	\$279,330	\$0	\$0	\$0	\$2,513,970	\$0	\$2,513,970
H8-04-023	No	4	San Leandro	MTC	The intersection of East 14th Street (SR 185) and Joaquin Avenue.	Upgrade the existing aged traffic signal equipment, including adding a scramble pedestrian crosswalk with a dedicated pedestrian signal phase, adding accessible pedestrian signals, and improving signing, striping, and	\$372,500	\$335,250	\$37,250	\$59,850	\$275,400	\$0	\$0	\$0	\$335,250
H9-04-028	No	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	\$359,900	\$359,900	\$0	\$0	\$0	\$0	\$0	\$359,900	\$359,900
HSIP7-04-003	No	4	San Leandro	MTC	The intersection of Davis Street with Carpentier Street	Install pedestrian activated or HAWK signal, accessible pedestrian signal equipment; improve street lighting features and signing & striping for crosswalks; and upgrade disabled curb ramps	\$299,300	\$254,405	\$44,895	\$37,655	\$0	\$0	\$0	\$216,750	\$254,405
H9-04-029	No	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	\$228,510	\$101,560	\$0	\$0	\$0	\$0	\$228,510	\$914,040
H8-04-025	No	4	San Rafael	MTC	The intersection of Third Street and Hetherton Street.	Install ADA compliant curb ramp; remove the existing crosswalk on the south leg & install a new crosswalk on the east leg; install new traffic signal poles and conduit; install roadway signage; change traffic signal timing.	\$583,900	\$523,900	\$0	\$60,000	\$0	\$523,900	\$0	\$0	\$583,900
H9-04-030	No	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	\$393,750	\$0	\$0	\$0	\$0	\$0	\$393,750	\$1,575,000
H8-04-026	No	4	Santa Rosa	MTC	Thirty-nine (39) signalized intersections.	Retrofit and upgrade thirty-nine (39) Protected/Permissive signalized intersections with Flashing Yellow Left Turn Arrow displays to meet the current MUTCD/CAMUTCD Standards.	\$994,000	\$994,000	\$0	\$110,000	\$0	\$884,000	\$0	\$0	\$994,000
H8-04-028	Yes	4	Solano County	MTC	Various locations.	Install new guardrail and upgrade existing guardrail.	\$529,900	\$529,900	\$0	\$94,000	\$435,900	\$0	\$0	\$0	\$529,900
H8-04-030	No	4	South San Francisco	MTC	Intersection of Spruce Avenue at Commercial Avenue.	Install new traffic signal with pedestrian countdown timers and accompanying ADA curb ramps.	\$524,000	\$444,000	\$80,000	\$0	\$0	\$444,000	\$0	\$0	\$444,000
H9-04-031	No	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	\$51,200	\$0	\$0	\$0	\$0	\$0	\$51,200	\$204,800
H9-04-032	No	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	\$0	\$0	\$0	\$0	\$0	\$556,100	\$556,100
H9-04-033	No	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	\$0	\$0	\$0	\$0	\$248,100	\$0	\$248,100
HSIP7-04-023	No	4	Suisun City	MTC	1) Sunset Avenue between Highway 12 and a point approximately 300 feet north of Railroad Avenue East. 2) Walters Road between Highway 12 and E. Tabor Avenue.	Install traffic signal post with left turn arrow, and widen the Railroad Avenue East approach. Replace existing pedestrian head modules with pedestrian head modules that include walking countdown sequence. Install	\$249,000	\$224,100	\$24,900	\$42,300	\$0	\$0	\$0	\$181,800	\$224,100
HSIP7-04-024	No	4	Suisun City	MTC	Eastbound State Route 12 between Pennsylvania Avenue and Marina Boulevard.	Installation of advance warning beacon system with controller and vehicle detection devices	\$180,000	\$162,000	\$18,000	\$36,000	\$0	\$0	\$0	\$126,000	\$162,000

**Highway Safety Improvement Program (HSIP)
2019 FTIP Back-Up List, sorted by MPO, Agency and Unique Project ID**

H8-04-031	No	4	Sunnyvale	MTC	Various locations.	Provide advance dilemma zone detection.	\$844,800	\$844,800	\$0	\$129,000	\$0	\$715,800	\$0	\$0	\$844,800
H9-04-034	No	4	Sunnyvale	MTC	Sixteen (16) locations throughout the City of Sunnyvale	Install video detection equipment to provide advance dilemma zone detection.	\$1,298,000	\$324,500	\$0	\$0	\$0	\$0	\$0	\$324,500	\$1,298,000
H8-04-032	No	4	Union City	MTC	Two signalized intersections: Alvarado-Niles Road/Mann Ave/Union Square and Alvarado Blvd./Galaxy Drive.	Remove pedestal mounted signal heads, install new mast arms, install new street lights on the mast arm poles and related improvements.	\$537,900	\$537,900	\$0	\$65,000	\$472,900	\$0	\$0	\$0	\$537,900
H9-04-035	No	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	\$619,425	\$0	\$0	\$0	\$0	\$0	\$619,425	\$2,477,700
H9-04-036	No	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	\$0	\$0	\$0	\$0	\$0	\$226,100	\$226,100
H9-04-037	No	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	\$326,450	\$0	\$0	\$0	\$0	\$0	\$326,450	\$1,305,800
H9-04-038	No	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	\$61,500	\$0	\$0	\$0	\$0	\$0	\$61,500	\$246,000
				Total(MTC)			\$88,675,500	\$63,601,157	\$7,546,220	\$7,130,434	\$9,643,716	\$17,885,330	\$11,950,973	\$17,729,934	\$81,129,280
Individually Listed HSIP Funded Projects															
TIP ID: ALA150042															
HSIP7-04-014	No	4	Oakland	MTC	Telegraph Avenue corridor between 29th Street and 45th Street	Stripe and sign road diet with buffered bike lanes between 29th and 41st Sts; install signal modifications at 29th and 45th Sts; install uncontrolled crosswalk enhancements, painted bulb-outs, and painted median refuges	\$1,493,900	\$1,344,510	\$149,390	\$199,260	\$0	\$0	\$0	\$1,145,250	\$1,344,510
TIP ID: ALA150043															
HSIP7-04-016	No	4	Oakland	MTC	Shattuck Avenue at 49 St, 51St, 59th St, Alacraz Ave; Claremont Avenue between Telegraph Avenue and Clifton Street	Sign and stripe road diet with bike lanes on Claremont; uncontrolled crosswalk enhancements with ladder crosswalk, RRFBs, bulb-out, and/or median refuges at multiple locations; protected left-turn at	\$1,560,100	\$1,404,090	\$156,010	\$180,900	\$0	\$0	\$1,223,190	\$0	\$1,404,090
TIP ID: ALA170052															
H8-04-014	No	4	Oakland	MTC	Fruitvale Avenue from Ashbrook Court to E 10th Street.	Install new Class II bicycle lanes, enhanced safety features at pedestrian crossings, and a new protected left turn phase at Foothill Blvd.	\$1,466,500	\$1,105,190	\$361,310	\$256,985	\$0	\$848,205	\$0	\$0	\$1,105,190
TIP ID: ALA170053															
H8-04-015	No	4	Oakland	MTC	35th Avenue from E 12th Street to I-580.	Construct crossing enhancements, a protected left turn phase at Foothill Blv, and Class II bicycle lanes between International Blvd and E 12th Street.	\$2,903,800	\$2,188,360	\$715,440	\$507,940	\$0	\$1,680,420	\$0	\$0	\$2,188,360