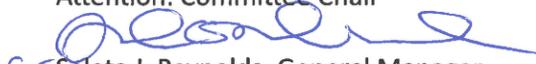


CITY OF LOS ANGELES
INTER-DEPARTMENTAL MEMORANDUM

Date: February 6, 2020

To: Honorable City Council
c/o City Clerk, Room 395
Attention: Committee Chair

From:  Seleta J. Reynolds, General Manager
Department of Transportation

Subject: **Vision Zero Implementation Strategy - Calendar Year 2020**

SUMMARY

Council File 17-1137 directs the Los Angeles Department of Transportation (LADOT) to provide an overview of Vision Zero projects planned for the upcoming year, contingent upon the adoption of the Mayor's Budget. This report summarizes the most significant accomplishments from calendar year 2019 and highlights planned work on Priority Corridors and Priority Intersections, the Complete Streets Reconstruction Program, California Department of Transportation (Caltrans) coordination, and community engagement for calendar year 2020.

RECOMMENDATION

LADOT recommends the Los Angeles City Council receive and file this report.

BACKGROUND

Council File 17-1137 directs LADOT to report annually with a set of proposed Vision Zero projects for consideration by Council and for inclusion in the Mayor's Proposed Budget. Vision Zero must achieve the following objectives:

- Prioritize projects with the highest potential to reduce the greatest number of severe injuries and fatalities
- Prioritize projects that address known threats to public safety, addressing severity, vulnerability, social equity, and cost-effectiveness
- Design improvements according to collision data and crash patterns
- Update the High Injury Network (HIN) and Priority Corridor regularly as new data arrives

In January 2019, LADOT submitted a report to City Council (Council) detailing planned work on Priority Corridors and Intersections for calendar year 2019. The report also discussed LADOT's coordination with the Complete Streets Program and with Caltrans for project locations within their jurisdiction. In June 2019, LADOT submitted a follow-up report to Council further detailing Caltrans coordination efforts.

DISCUSSION

Vision Zero is an ambitious policy that requires a long-term strategy for implementation. To achieve this bold vision, LADOT must iterate on existing projects while also staking new ground. LADOT has implemented a large capital program to install significant safety treatments throughout the city, and will continue to work toward Vision Zero goals. LADOT remains focused on implementing a systems approach to safety where street design accounts for human error to ensure the consequences of those mistakes are not fatal.

LADOT has implemented over 2,800 individual safety improvements on Priority Corridors since Vision Zero improvements began in January of 2017, including more than 1,500 improvements in 2019. These include:

- Two-way protected bike lanes on Main and Spring Streets
- Corridor improvements on Temple Street, Venice Boulevard, and Roscoe Boulevard
- 1,334 striping improvements:
 - 1,162 crosswalk upgrades
 - 182 Intersection Tightenings/Painted Curb Extensions
- 80 Speed Feedback Signs
- 10 Pedestrian Refuge Islands
- 113 signal improvements:
 - 39 left-turn upgrades
 - 16 new traffic signals
 - 43 Leading Pedestrian Intervals
 - 13 Flashing Beacons
 - 2 HAWK Beacons

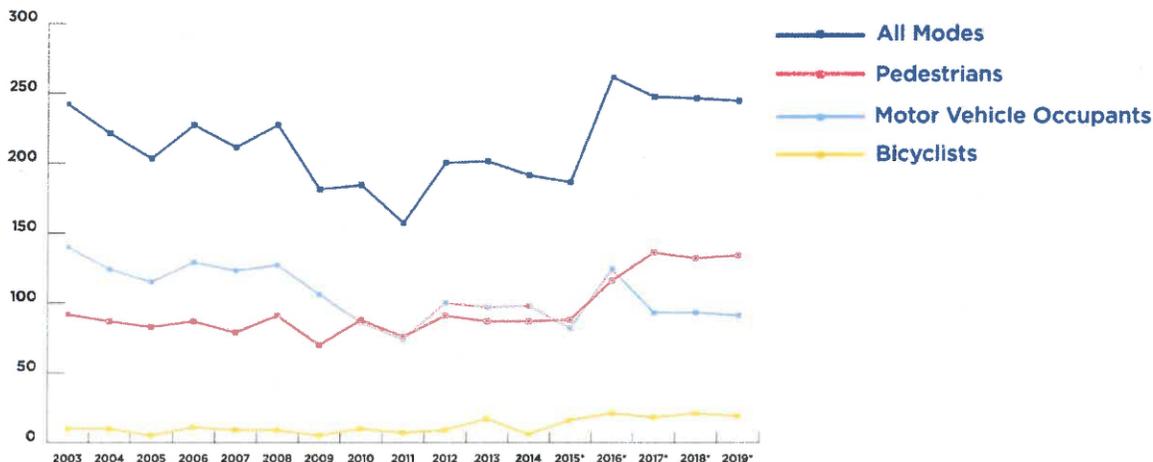
In last year's annual update, LADOT identified 23 new Priority Corridors and 60 Priority Intersections. To date, LADOT has installed improvements on all City-owned 2019 Priority Corridors, equivalent to 12.8 miles of striped safety upgrades, and installed two-way protected bicycle lanes on Spring and Main Streets (2017 Priority Corridors) in downtown. The multi-departmental Complete Streets Program enabled LADOT to complete Phase 1, 2, and 3 work on the Temple Street, Venice Boulevard, and Roscoe Boulevard Priority Corridors.

Within Vision Zero programs, Safe Routes to Schools (SRTS) and Play Streets continue to educate community members and yield safety and health benefits to neighborhoods. In 2019, SRTS provided safety improvements at 12 of the top 50 schools of most need, completing projects at the top four schools and securing over \$33 million in additional Active Transportation Program (ATP) Cycle 4 grant funds for continued implementation of safety plans at the next eight. LADOT also received a \$1.75 million ATP non-infrastructure planning grant for the development of the Safe Routes for Seniors program.

Mirroring national trends, pedestrian fatalities continue to be a major challenge for the City of Los Angeles. Overall, since LADOT began implementing Vision Zero safety improvements in January 2017, the City has seen a 7% decrease in fatalities. Preliminary data compiled from the California Highway Patrol Statewide Integrated Traffic Records System (SWITRS) and the Los Angeles Police Department (LAPD) indicates a marginal decrease in overall fatalities in 2019 from the previous year, dropping slightly from 247 to 244. According to the National Traffic Safety Bureau (NTSB), one of the major contributing

factors to the increase in pedestrian injuries and fatalities nationwide correlates to vehicle design. The continued prevalence of large vehicles, such as SUVs and light duty trucks, contributes directly to the increased severity of pedestrian crashes in cities, and the higher likelihood that crashes, when they occur, result in death. While the city does not have direct control over the percentage of these vehicles on the road, our responsibility is to continue to focus on street design and speeds in the context of these considerations.

Traffic Fatalities in Los Angeles (2003-2019)



2003 - 2014 Collision Data Source: California Highway Patrol Statewide Integrated Traffic Records System (SWITRS)
2015 - 2019 Los Angeles Police Department

LADOT will continue to prioritize safety improvements at locations with the greatest safety need, identified through the High-Injury Network Priority Corridor and Priority Intersection crash analysis. LADOT will update its Safety Study in 2020 to analyze the most recent collision trends and root causes, and analyze the effectiveness of our safety treatments.

Below is a summary of major accomplishments in 2019, as well as a look-ahead to the 2020 work plan. Some projects and programs described below are dependent upon continued and new budget requests.

Priority Corridor Improvements

Phase 1 Implementation - Paint, Signs, and Signal Timing

LADOT completed Phase 1 work including continental crosswalk upgrades, new minor street crosswalks, edge lines, intersection tightenings, speed feedback signs, Rectangular Rapid Flashing Beacon (RRFB) installations at uncontrolled crosswalks, and signal timing improvements (including leading pedestrian intervals) on 13 of the 20 City-owned 2019 Priority Corridors. On the remaining City-owned 2019 Priority Corridors, LADOT upgraded all crosswalks and installed speed feedback signs; Phase 1 striping on these corridors is currently in design. See Attachment 1 for a summary of all Phase 1 Priority Corridor work.

LADOT also installed two-way protected bicycle lanes on 2017 Priority Corridors Spring and Main Streets in downtown. Per City practice, LADOT partnered with StreetsLA to ensure that the pavement condition

was in a state of good repair prior to installation. These projects include bicycle lanes protected by vehicles and bollards, bike signals, and roadway reconfiguration that will improve safety and mobility.

With baseline striping and signs upgraded in 2019, LADOT will focus in 2020 on implementing signals, left-turn upgrades, and pedestrian beacons, as well as lane reconfigurations and bicycle facilities where data and community engagement indicate safety benefits and feasibility. This year LADOT will implement striped lane reconfigurations and protected bicycle facilities on Avalon Boulevard and Broadway in South Los Angeles. In Spring 2020, LADOT and its consultant will complete a traffic analysis of Priority Corridors identified as candidates for lane reconfiguration and bicycle facilities based on existing lane configurations, volumes, and Mobility Plan designations. Staff will evaluate the results of this analysis to identify appropriate installation of additional corridor safety projects. LADOT will work with community partners and Council offices to determine the feasibility of these additional transformative projects.

LADOT will continue programmatic installations of Leading Pedestrian Intervals (LPI), update Yellow and All-Red timing to the current standard, increase pedestrian signal timing, and continue piloting Nighttime Flashing Yellow operation on all Priority Corridors. Traffic signals programmed with Nighttime Flashing Yellow will flash yellow instead of displaying the solid green phase between 11 pm and 5 am. This encourages drivers to reduce their speed and, according to the Federal Highway Administration, reduces the incidence of nighttime crashes between pedestrians and drivers.

Pilot Projects - Speed Tables, Modular Pedestrian Refuge Islands/Left-Turn Calming

In January 2020, LADOT installed speed tables at key locations along the Temple Street Priority Corridor. Speed tables are rounded, raised sections of asphalt similar to speed humps that are appropriate for use on larger arterial streets to encourage slower vehicular speeds. LADOT will evaluate the efficacy of speed tables by measuring speeds before and after installation of speed tables on Temple Street. If the data indicates success, LADOT will consider expanding the treatment to additional corridors.

LADOT will also pilot modular pedestrian refuge islands on the North Figueroa Street Priority Corridor. Modular refuge islands are less expensive, easier to install, and allow for islands in locations where contaminated soil makes concrete work cost-prohibitive. The department will also identify locations to pilot a modular left-turn calming kit designed to reduce left turn speeds and ensure proper turning radius for left turns. See Attachment 8 for sample photos of these countermeasures.

Complete Streets Program

LADOT completed Phase 1, 2, and 3 work on the Temple Street, Venice Boulevard, and Roscoe Boulevard Priority Corridors through the Complete Streets Program. In 2020, LADOT will continue to collaborate with the Bureau of Engineering (BOE), City Council, and other City departments to develop and deliver projects under the Complete Streets Program. The Main Street project will continue construction under BOE's leadership, scheduled to be complete in Fall 2020.

LADOT will also collaborate with other departments, affected Council offices, and technical consultants to develop the next set of Complete Streets projects on Culver Boulevard, Highland Ave, and La Brea Ave. Project development, including community engagement on the Culver Boulevard project, will take place in 2020. The City will conduct formal Road Safety Assessments (RSA) for these first three corridors. See Attachment 2 for a summary table of Complete Streets project work.

Intersection Improvements

LADOT identified and installed 39 new left-turn signals and 16 new conventional traffic signals in 2019, using a combination of dedicated Vision Zero funding and other traffic signal funds. These projects improve safety for people and are part of a list of 109 locations identified for installation in 2019 and 2020. LADOT identified these locations based on a high-priority for safety and design readiness. In 2020, LADOT will continue to build new traffic signals and signal upgrades on Priority Corridors, focusing primarily on installation of left-turn arrows. Left-turn arrows reduce conflicts between people who drive, walk, and bike and decrease left-turn collisions by 99% according to the Federal Highway Administration. For a list of installed Vision Zero traffic signals, see Attachment 3.

LADOT will continue to analyze crash patterns and movements at the 60 Priority Intersections identified for improvements based on the number of intersectional severe injuries. In 2020, the Vision Zero division will use this information to scope and design appropriate safety improvements at these intersections. LADOT has upgraded signal timing at all of the intersections to bring them up to our latest standards. See Attachment 9 for a list of these Intersections.

Pedestrian Crossings

Pedestrian Refuge Islands

Pedestrian refuge islands are concrete medians that improve safety at designated pedestrian crossings. These islands reduce crashes by an average of 46% at marked crossings according to the Federal Highway Administration. Since the pedestrian refuge island implementation effort began in 2017, LADOT has collaborated with the Bureau of Engineering (BOE) and StreetsLA to install 31 pedestrian refuge islands, 15 in 2019. In 2020, departments will locate, design, and build another set of pedestrian refuge islands. For a list of installed and upcoming 2020 pedestrian refuge island installations, see Attachment 4.

Pedestrian Beacons

Pedestrian beacons, including Rectangular Rapid Flashing Beacons (RRFBs) and Pedestrian Hybrid Beacons (HAWKs), use button-activated flashing lights to notify drivers of crossing pedestrians. Beacons increase the rate at which vehicles yield to pedestrians in a crosswalk by between 18% and 81% according to the Federal Highway Administration. LADOT has installed 47 pedestrian beacons at high-injury locations since 2017 including 19 installations in 2019. LADOT will continue these installations in 2020. For a list of installed pedestrian beacons, see Attachment 5.

Safe Routes Programs

Safe Routes to Schools

Safe Routes to Schools incorporates engineering, education, and enforcement recommendations to improve traffic safety around the Top 50 Schools with Most Need identified (Top 50 Schools) in the 2016 Safe Routes to School Action Plan (SRTS Action Plan). The SRTS Action Plan prioritizes school need based

on crashes, potential to increase walking, free and reduced-price meal prevalence and prior SRTS funding (CF 14-0348).

Caltrans awarded LADOT Active Transportation Program (ATP) Cycle 1 funds for construction at nine Top 50 Schools, and we completed four projects in 2019. LADOT received ATP Cycle 4 funds to create SRTS Plans for construction at eight additional Top 50 Schools. LADOT will complete SRTS Plans for the remaining 33 Top 50 Schools and submit ATP Cycle 5 grant applications in June 2020 for project construction. Attachment 6 lists SRTS Plans and project statuses.

In addition to infrastructure projects, SRTS performs safety education in schools and uses interactive activities to enhance students' understanding of how to travel safely as pedestrians and bicyclists and how to encourage their parents (or whomever drives them) to drive safely. Since the creation of the SRTS program in 2013, LADOT has hosted over 27,000 students in more than 60 Traffic Safety City events. Walk to School Day celebrates walking while highlighting the need to prioritize safety for all people traveling in school neighborhoods. To date, 42,000 students have participated.

Safe Routes for Seniors

Building on the success of the Safe Routes to Schools program, LADOT recently secured \$1.5 million in ATP funds to develop and launch a Safe Routes for Seniors program. In October 2019, LADOT installed the first Senior Slow Zone on York Boulevard and North Figueroa Street near the Highland Park Senior Center. A slow zone implements a reduced speed limit at selected locations with high senior pedestrian activity. In 2020, LADOT will continue to expand the 15 MPH Senior Slow Zone program at locations prioritized near parks and recreation centers where there is an active senior community.

Rapid Response

Throughout 2019, LADOT implemented rapid response treatments at intersections where crashes occurred in order to prevent additional severe injuries and fatalities. Through a concerted effort involving LADOT District Offices, design staff, signal timing staff, and LADOT field forces, LADOT installed traffic signal improvements within weeks of designation for a Rapid Response effort. In 2019, LADOT installed rapid improvements at the following locations to enhance safety:

- Newell Street and Riverside Drive
- Florence Avenue and 8th Avenue
- Sunnyslope Avenue and Vanowen Street
- Gaffey Street and Westmont Drive

As necessary, LADOT will continue its rapid response at locations where serious crashes occur in 2020.

California Department of Transportation Coordination

LADOT established a monthly coordination meeting with the California Department of Transportation (Caltrans) to address the three 2019 Priority Corridors within their jurisdiction. In 2019, LADOT upgraded and/or added all minor street crosswalks on these streets. Caltrans agreed to upgrade all crosswalks to high-visibility and improve signs to address identified safety issues. Caltrans work at these locations is expected to take place in 2020.

Community Engagement

Throughout 2019, LADOT piloted its Dignity-Infused Community Engagement (DICE) strategy, which helped lay the foundation for upcoming projects by bringing resources to historically underserved communities and elevating traffic safety issues.

This approach, implemented through our DICE engagement contract, seeks to redress the negative impacts of inequitable planning systems and practices by relying on community engagement strategies aimed at understanding diverse perspectives and prioritizing lived experiences. This strategy includes close collaboration with community based organizations and residents, capacity building, street team deployment, restorative justice sessions, hyper-local community events, and a robust public art component.

In 2020, LADOT will continue to anchor Vision Zero's engagement strategy around this community centered approach. LADOT will incorporate piloted strategies into developing concepts, vetting project design, education about project benefits, and construction notification and impacts. Vision Zero will use these strategies to conduct general traffic safety awareness.

Additionally, in August 2019, LADOT launched a new Livable Streets website: ladotlivablestreets.org. The website brings eight separate LADOT street safety programs (Vision Zero, Active Transportation, Safe Routes to School, Safe Routes for Seniors, People St, Great Streets, Play Streets, and Open Streets) into a single, interactive web portal allowing the public to view and comment on all of our streetscape projects in one place.

LADOT also launched two memorial initiatives in 2019: the Rainbow Halo and Roadside Memorial Sign Programs. These initiatives increase traffic safety awareness and convey safety messaging. Each initiative commemorates individuals who died in traffic collisions and offers a visual reminder for drivers to use caution when they are behind the wheel. In 2019, LADOT partnered with local advocacy organizations and the survivor support group SoCal Families for Safe Streets to install nine Rainbow Halos and hold three dedication ceremonies. LADOT also installed one Roadside Memorial Sign. See Attachment 7 for samples of each memorial. In 2020, LADOT will continue to work with partner community-based organizations like Families for Safe Streets and LA Walks to identify Rainbow Halo locations and host memorial ceremonies. LADOT is now accepting nominations for Memorial Road Signs through the Livable Streets website and will install up to 20 locations in 2020.

Safety Request Prioritization

In 2020, LADOT is working toward a streamlined strategy to prioritize MyLADOT service requests regarding safety including additional stop signs, safety-related red curb, new crosswalks, and reinforcing school zone safety signage. For stop signs, LADOT will prioritize the top 100 uncontrolled intersections based on crash data and determine the most appropriate remedies, including new crosswalks.

Safety Study and High Injury Network Update

LADOT published a Vision Zero Safety Study in 2016. In 2020, Vision Zero will conduct a new safety study that analyzes crash patterns, identifies trends, and evaluates the efficacy of Vision Zero safety treatments already installed. LADOT will update the High-Injury Network (HIN) with the most current five-year period of certified crash data.

FISCAL IMPACT

This memorandum does not request additional funds for the implementation of these projects. LADOT has submitted budget requests to address work on the Priority Corridors and Intersections for the City's upcoming 2020-21 Budget process.

SJR:DM:na
attachments

Attachment 1 - Phase 1 Priority Corridor Work

	Priority Corridor	From Street	To Street	Length (Miles)	Council District	Health & Equity Index Top Quintile	Phase 1 Crosswalk Upgrades	Phase 1 Striping Upgrades	Speed Feedback Signs	Phase 1 Signal Timing Upgrades	Year Adopted
1	Imperial	Athens Way	Vermont Ave	0.76	8	✓	✓	✓	✓	✓	2019
2	La Brea	Adams Blvd	Coliseum St	1.04	10	✓	✓	✓	-	✓	2019
3	Normandie	Lomita Blvd	Pacific Coast Hwy	0.54	15	✓	✓	✓	✓	✓	2019
4	Highland	Franklin Pl	Santa Monica Blvd	0.93	4, 13	-	✓	✓	✓		2019
5	Lincoln (Caltrans)	Commonwealth Ave	Venice Blvd	1.12	11	-	<i>Pending Caltrans Coordination</i>				2019
6	Woodman	Sherman Way	Saticoy St	0.57	2, 6	✓	✓	✓	✓		2019
7	Gaffey	14th St	O'Farrell St	1.03	15	✓	✓	✓	✓	✓	2019
8	Manchester	Mckinley Pl	Vermont Ave	1.78	8, 9	✓	✓	✓	✓	✓	2019
9	Western	Lexington Ave	Russell Ave	0.75	13	-	✓	✓	✓		2019
10	Beverly	Normandie Pl	Westmoreland Blvd	0.76	13	-	✓	✓	✓	✓	2019
11	Vermont	Gage St	79th St	1	8	✓	✓	✓	✓		2019
12	Western	3rd St	Washington Blvd	2	4, 10	-	✓	✓	✓		2019
13	Hollywood	Fuller Ave	Lyman Pl	3.61	4, 13	-	✓	In Design	✓		2019
14	La Cienega	Guthrie Ave	Whitworth Dr	1.16	5, 10	-	✓	In Design	✓		2019
15	Sunset	L. Ron Hubbard Way	Selma Ave	4.17	4, 13	-	✓	In Design	✓		2019
16	Victory	Fulton Ave	Whitsett Ave	0.99	2	-	✓	In Design	✓		2019
17	Normandie	Beverly Blvd	Melrose Ave	0.5	13	✓	✓	✓	✓		2019
18	Pico	2nd Ave	Western Ave	0.57	10	✓	✓	In Design	✓		2019
19	Culver	Centinela Ave	Corinth Ave	0.63	11	-	✓	In Design	✓		2019
20	Vermont	7th St	Beverly Blvd	1.14	10, 13	-	✓	✓	✓		2019
21	Lincoln (Caltrans)	Bluff Trail Road	Manchester Ave	0.51	11	-	<i>Pending Caltrans Coordination</i>				2019
22	Santa Monica (Caltrans)	Brockton Ave	Sepulveda Blvd	1.09	5, 11	-	<i>Pending Caltrans Coordination</i>				2019
23	Ventura	Garden Grove Ave	White Oak Ave	0.64	3, 4	-	✓	In Design	✓		2019
24	3rd St	Normandie Ave	Vermont Ave	0.5	10, 13	-	✓	✓	✓		2017

	Priority Corridor	From Street	To Street	Length (Miles)	Council District	Health & Equity Index Top Quintile	Phase 1 Crosswalk Upgrades	Phase 1 Striping Upgrades	Speed Feed-back Signs	Phase 1 Signal Timing Upgrades	Year Adopted
25	6th St	Rampart Blvd	Beaudry Ave	1.4	1	✓	✓	✓	✓		2017
26	7th St	Figueroa St	Olive	0.3	14	✓	✓	BOE Project	N/A		2017
27	Adams Blvd	Fairfax Ave	Crenshaw Blvd	1.6	10	✓	✓	In Design	✓	✓	2017
28	Alvarado St	6th St	7th St	0.2	1	✓	N/A	✓	N/A	✓	2017
29	Anaheim St	Figueroa St	Henry Ford Ave	2.2	15	✓	✓	In Design	✓		2017
30	Avalon Blvd	San Pedro St	120th St	6.4	8, 9, 15	✓	✓	In Design	✓		2017
31	Broadway	MLK Blvd	Century Blvd	4.5	8, 9	✓	✓	In Design	✓		2017
32	Central Ave	Jefferson Blvd	17th St	1.4	9, 14	✓	✓	✓	Pending Through Grant		2017
33	Crenshaw Blvd	79th St	Pico Blvd	5.7	8, 10	✓	✓	✓	✓		2017
34	Figueroa St	MLK Blvd	Imperial Hwy	5.5	8, 9	✓	✓	✓	✓		2017
35	Fletcher Dr	Riverside Dr	San Fernando Rd	0.8	13	✓	✓	In Design	✓		2017
36	Florence Ave	Crenshaw Blvd	Central Ave	4.3	8, 9	✓	✓	✓	✓	✓	2017
37	Hoover St	Vernon Ave	Manchester Ave	3	8, 9	✓	✓	✓	✓		2017
38	La Brea Ave	Adams Blvd	Pico Blvd	1.1	10	✓	✓	✓	✓		2017
39	Lankershim Blvd	Chandler Blvd	Victory Blvd	1.4	2	✓		In Design	In Design		2017
40	Main St (North)	6th St	7th St	0.1	14	✓	✓	✓	N/A	✓	2017
41	Main St (South)	MLK Blvd	Imperial Hwy	5.5	8, 9	✓	✓	✓	✓		2017
42	Manchester Ave	Western Ave	Vermont Ave	1	8	✓	✓	✓	✓	✓	2017
43	N Broadway	Mission Rd Pasadena	N Spring St	1.5	1, 14	✓	✓	✓	✓	✓	2017
44	N Figueroa St	Ave/Marmion Wy	York Blvd	2.1	1, 14	-	✓	✓	✓	✓	2017
45	Normandie Ave	Vernon Ave	I-10	2.4	8, 9 (1, 10)	✓	✓	✓	✓	✓	2017
46	Pico Blvd (East)	Western Ave	Union Ave	1.9	10, 1	✓	✓	✓	✓		2017

	Priority Corridor	From Street	To Street	Length (Miles)	Council District	Health & Equity Index Top Quintile	Phase 1 Crosswalk Upgrades	Phase 1 Striping Upgrades	Speed Feedback Signs	Phase 1 Signal Timing Upgrades	Year Adopted
47	Pico Blvd (West)	Robertson Blvd	La Cienega Blvd	0.4	5	-	✓	✓	✓	✓	2017
48	Reseda Blvd	Parthenia St	Victory Blvd	2.9	3, 12	-	✓	✓	✓		2017
49	Roscoe Blvd	I-405	Woodman Ave	2.3	6, 12	✓	✓	✓	✓	✓	2017
50	Saticoy St	Topanga Cyn Blvd	Jordan St (Owensmouth Av)	0.2	3	-	✓	✓	✓	✓	2017
51	Sepulveda Blvd	Nordhoff St	Rinaldi St	3	7	✓	✓	In Design	✓		2017
52	Soto St	Wabash Ave	8th St	1.9	14	✓	✓	In Design	✓		2017
53	Spring St	Temple	9th St	1.2	14	✓	✓	✓	N/A	✓	2017
54	Temple St	Beverly Blvd	Beaudry Ave	2.3	13, 1	✓	✓	✓	✓		2017
55	Van Nuys Blvd	Beachy Ave	San Fernando Rd	1.5	6, 7	✓	✓	✓	✓		2017
56	Venice Blvd (East)	Arlington Ave	Figueroa St	2.8	14, 9, 10	✓	✓	✓	✓		2017
57	Venice Blvd (West)	Beethoven St	Inglewood Bl	0.8	11	✓	✓	✓	✓	✓	2017
58	Vermont Ave (North)	Pico Blvd	Adams Blvd	1	1, 8	✓	✓	✓	✓	✓	2017
59	Vermont Ave (South)	Gage Ave	Vernon Ave	1.6	8, 9	✓	✓	✓	✓	✓	2017
60	Vernon Ave	Western Ave	Central Ave	3	8, 9	✓	✓	✓	✓		2017
61	Washington Blvd	La Brea Ave	Vermont Ave	3.2	1, 10	✓	✓	✓	✓		2017
62	Western Ave	Century Blvd	Washington Blvd	6.5	8, 10	✓	✓	✓	✓		2017
63	Wilshire Blvd	Rampart Blvd	Valencia St	0.9	1	✓	✓	✓	✓		2017

Definitions

Health & Equity Index Top Quintile: The Community Health and Equity Index was developed to examine the spatial relationship between vulnerable populations, social and economic factors, mortality, morbidity, the physical environment, pollution, and crime and to identify the areas of City burdened with the most adverse conditions. If a street is marked with a check-mark (✓) it falls within the top quintile of the Community Health and Equity Index.

Phase 1 Crosswalk Upgrades Complete: LADOT upgraded all existing crosswalks to high-visibility continental crosswalk standard. Where appropriate, LADOT has added new high-visibility continental crosswalks to the minor street leg.

Phase 1 Striping Upgrades Complete: LADOT upgraded and installed new continental crosswalks, edge lines, and/or intersection tightenings.

Speed Feedback Signs: LADOT installed speed feedback signs at regular intervals along the corridor.

Phase 1 Signal Timing Upgrades Complete: LADOT evaluated all signals along a corridor and, where appropriate, installed Leading Pedestrian Intervals, Nighttime Flashing Yellow, and updated timing charts to improve safety.

Attachment 2 - Complete Streets Project Summary Work

	2017 HIN Priority Corridor	From Street	To Street	Length (Miles)	Council District	Construction Start Date	Construction End Date
1	Roscoe Blvd	I-405	Woodman Ave	2.3	6	June 2018	June 2019
2	Temple St	Beverly Blvd	Beaudry Ave	2.3	1, 13	October 2018	October 2019
3	Venice Blvd (East)	Arlington Ave	Figueroa St	2.8	1, 9, 10	June 2018	December 2019
4	Main St (South)	Martin Luther King Jr Blvd	Imperial Hwy	5.5	8, 9	December 2018	<i>Expected August 2020</i>
5	Reseda Blvd	Parthenia St	Victory Blvd	2.9	3, 12	<i>Expected Fall 2020</i>	<i>Expected 2022</i>
6	Avalon Blvd	Jefferson Blvd	120th St	6.3	8, 9, 15	<i>Expected 2021</i>	<i>Expected 2023</i>
7	Culver Blvd	Centinela Ave	Slauson Ave	0.6	11	<i>Expected 2021</i>	<i>Expected 2022</i>
8	La Brea Blvd	Coliseum St	Adams Blvd	1	10	<i>Expected 2021</i>	<i>Expected 2022</i>
9	Highland Ave	Santa Monica Blvd	Franklin Ave	0.9	4, 13	<i>Expected 2021</i>	<i>Expected 2022</i>

Attachment 3 - Vision Zero Signal Work Update

Left-Turn Upgrades (Includes Protected-Only, Protected/Permissive, and Hybrid Left Turn Signalization)

	Primary Street	Cross-Street	High-Injury Network (HIN)	HIN Priority Corridor	Date Activated
1	3rd St	Vermont Ave	Y	Y	8/12/19
2	Ashby Ave	Overland Ave	N	N	6/3/19
3	Canoga Ave	Oxnard St	N	N	9/11/19
4	Crescent Heights Blvd	Sunset Blvd	Y	N	6/4/19
5	Eagle Rock Blvd	El Paso Dr	Y	N	9/5/19
6	Eastern Ave	Gambier St	Y	N	8/28/19
7	Fountain Ave	Western Ave	Y	N	9/4/19
8	Glenoaks Blvd	Sheldon St	N	N	8/13/19
9	Highlander Rd	Platt Ave	N	N	8/14/19
10	Normandie Ave	Santa Monica Blvd	Y	N	9/10/19
11	Ocean Ave	Via Marina	Y	N	8/21/19
12	Palms Blvd	Sawtelle Blvd	N	N	8/20/19
13	Sherman Way	Woodman Ave	Y	N	9/25/19
14	Spaulding Ave	Thurman Ave	Y	N	8/27/19
15	Victory Blvd	Wilbur Ave	N	N	9/9/19
16	Roscoe Blvd	Hazeltine Ave	Y	Y	7/9/19
17	Roscoe Blvd	Langdon Ave	Y	Y	6/19/19
18	Roscoe Blvd	Lennox Ave	Y	Y	7/2/19
19	Roscoe Blvd	Noble Ave	Y	Y	6/24/19
20	Roscoe Blvd	Orion Ave	Y	Y	6/18/19
21	Roscoe Blvd	Ranchito Ave	Y	Y	7/10/19
22	Roscoe Blvd	Tobias Ave	Y	Y	6/27/19
23	Roscoe Blvd	Van Nuys Blvd	Y	Y	7/13/19
24	Roscoe Blvd	Willis Ave	Y	Y	6/26/19
25	Arlington Ave	Venice Blvd	Y	Y	12/12/19
26	Normandie Ave	Venice Blvd	Y	Y	12/10/19
27	Venice Blvd	Western Ave	Y	Y	11/22/19
28	Alvarado St	Temple St	Y	Y	9/4/19
29	Bonnie Brae St	Temple St	Y	Y	9/5/19
30	Edgeware Rd	Temple St	Y	Y	9/30/19
31	Rampart Blvd	Temple St	Y	Y	8/29/19
32	Temple St	Union Ave	Y	Y	9/9/19
33	Beaudry Ave	Temple St	Y	Y	10/1/19
34	Camarillo	Lankershim	Y	N	9/26/19
35	Temple St	Roselake	Y	Y	9/3/19

36	Newell St	Riverside Dr	N	N	4/6/19
37	8th Ave	Florence Ave	Y	Y	5/24/19
38	Gaffey St	Westmont Dr	Y	N	11/6/19
39	Centinela Ave	Venice Blvd	Y	Y	11/13/19

New Traffic Signals

	Primary Street	Cross-Street	High-Injury Network (HIN)	HIN Priority Corridor	Date Activated
1	Adams Blvd	Naomi Ave	Y	N	8/22/19
2	Culver Blvd	Slauson Ave	Y	Y	5/16/19
3	La Brea Ave	Rosewood Ave	Y	N	5/22/19
4	Military Ave	Pico Blvd	Y	N	6/19/19
5	Overland Ave	Rose Ave	Y	N	6/20/19
6	Romaine St	Vine St	Y	N	8/29/19
7	Superior St	Zelzah Ave	Y	N	5/14/19
8	Thrive Way	Vermont Ave	Y	N	8/8/19
9	St. Andrews Pl	Venice Blvd	Y	Y	12/16/19
10	Chase St	Tobias Ave	Y	N	1/10/19
11	41st St	Hoover St	Y	N	5/20/19
12	41st Dr	Hoover St	Y	N	5/21/19
13	43rd St	Figueroa St	Y	Y	6/18/19
14	Burnside Ave	Pico Blvd	Y	N	7/9/19
15	Portia St	Sunset Blvd	Y	N	10/9/19
16	Olin St	Robertson Blvd	N	N	10/17/19

Attachment 4 - Pedestrian Refuge Islands

	Primary Street	Cross-Street	High-Injury Network (HIN)	HIN Priority Corridor	Installation Date
1	Eagle Rock Blvd	Avenue 41	Y	N	5/10/17
2	Winnetka Ave	Community St	N	N	7/24/17
3	Sherman Way	Whitaker Ave	N	N	7/31/17
4	Zelzah Ave	Hiawatha St	Y	N	9/1/17
5	Reseda Blvd	Tribune St	N	N	10/10/17
6	Wilbur Ave	Arminta St	N	N	11/12/17
7	Washington Blvd	Longwood Ave	Y	Y	11/18/17
8	Olympic Blvd	Orlando Ave	N	N	4/15/18
9	Riverside Dr	Ranchito Ave	Y	N	5/6/18
10	Figueroa St	67th St	Y	Y	6/8/18
11	Chatsworth Dr	Los Alimos St	N	N	6/26/18
12	Pico Blvd	Alfred St	Y	N	8/15/18
13	Central Ave	104th St	Y	N	9/9/18
14	Eagle Rock Blvd	Merton Ave	Y	N	9/17/18
15	Century Blvd	Holmes Ave	N	N	11/3/18
16	Figueroa St	Diamond St	N	N	11/11/18
17	Hollywood Blvd	Rodney Dr	Y	Y	1/19/19
18	Figueroa St	Robidoux St	N	N	4/2/19
19	Figueroa St	F St	N	N	4/2/19
20	Rodeo Rd	Dublin Ave	N	N	4/19/19
21	Imperial Hwy	Slater St	N	N	4/24/19
22	Gateway Blvd	Coolidge Ave	N	N	4/25/19
23	Pico Blvd	Fox Hills Dr	N	N	5/7/19
24	Soto St	Short St	Y	N	5/7/19
25	Sepulveda Blvd	Clover Ave	Y	N	6/4/19
26	San Fernando Rd	Hallett Ave	Y	N	6/4/19
27	Florence Ave	10th Ave	Y	Y	6/18/19
28	Ventura Blvd	La Maida St	Y	N	6/23/19
29	Jefferson Blvd	Harvard Blvd	Y	N	6/24/19
30	Figueroa St	Buena Vista Ter	Y	N	9/4/19
31	Pico Blvd	Federal Ave	Y	N	10/22/19

32	Western Ave	Virginia Ave	Y	N	Estimated January 2020
33	Playa Vista Dr	Bay Park Dr	N	N	Estimated February 2020
34	Figueroa St	56th St	Y	Y	Estimated March 2020
35	Figueroa St	57th St	Y	Y	Estimated April 2020
36	Figueroa St	74th St	Y	Y	Estimated May 2020
37	Central Ave	87th Pl	Y	N	Estimated June 2020

Attachment 5 - Pedestrian Beacons

	Primary Street	Cross Street	High-Injury Network (HIN)	HIN Priority Corridor	Activation Date
1	1st St	Dacotah St	N	N	6/13/19
2	3rd St	Boyle Ave	N	N	5/30/19
3	6th St*	Spaulding Ave	N	N	8/28/19
4	38th St	Broadway	Y	N	12/10/19
5	102nd St	Broadway	N	N	10/25/18
6	255th St	Normandie Ave	Y	Y	12/7/19
7	Alhambra Ave	Hollister Ave	N	N	8/14/18
8	Anaheim St	Flint Ave	Y	Y	11/27/18
9	Anaheim St	Gulf Ave	Y	Y	8/21/18
10	Anaheim St	Island Ave	Y	Y	1/2/18
11	Anaheim St	King Ave	Y	Y	10/10/18
12	Anaheim St	Pioneer Ave	Y	Y	5/13/19
13	Burbank Blvd	Fulcher Ave	Y	N	6/14/19
	Coldwater Canyon				
14	Ave	Erwin St	N	N	5/7/19
15	Fairfax Ave	La Cienega Blvd	N	N	11/16/18
16	Figueroa St	57th St	Y	Y	1/1/18
17	Figueroa St	74th St	Y	Y	9/18/18
18	Figueroa St	91st St	Y	Y	7/30/18
19	Figueroa St	94th St	Y	N	6/15/18
20	Figueroa St	106th St	Y	Y	10/3/18
21	Figueroa St	110th St	Y	Y	6/22/18
22	Gaffey St	6th St	Y	Y	10/8/19
23	Gaffey St	10th St	Y	Y	10/15/19
24	Gaffey St	12th St	Y	Y	10/17/19
25	Glendale Blvd	Reservoir St	Y	N	8/28/19
26	Highland Ave	Leland Way	Y	Y	12/17/19
27	Hollywood Blvd	Rodney Dr	Y	N	1/19/19
28	Hoover St	43rd Pl	Y	N	6/18/19
29	Hoover St	55th St	Y	Y	7/24/18
30	Hoover St	58th St	Y	Y	7/2/18
31	Hoover St	65th St	Y	Y	8/17/18
32	Hoover St	74th St	Y	Y	7/25/18

33	Hoover St	75th St	Y	Y	7/25/18
34	Hoover St	81st St	Y	Y	7/12/18
35	Hoover St	84th St	Y	Y	9/11/18
36	Huston St	Tujunga Ave	N	N	9/5/18
37	Irvine Ave	Moorpark St	N	N	10/22/18
38	Manchester Ave	Raymond Ave	Y	Y	10/9/18
39	Oxnard St	Ranchito Ave	Y	N	7/27/18
40	Oxnard St	Varna Ave	N	N	7/27/18
41	Pacific Ave	Sunset Ave	Y	N	2/10/18
42	Vanowen St*	Sunnyslope Ave	Y	N	10/1/19
43	Vose St	Whitsett Ave	Y	N	4/18/18
44	Western Ave	43rd St	Y	Y	6/20/18
45	Western Ave	82nd St	Y	Y	7/3/18
46	Western Ave	Rosewood Ave	Y	Y	8/29/19
47	Ventura Blvd	Ventura Canyon Ave	N	N	6/12/19

All pedestrian beacons are Rectangular Rapid Flashing Beacons except ones marked with an asterisk (), which are Pedestrian Hybrid Beacons, also known as HAWK beacons.*

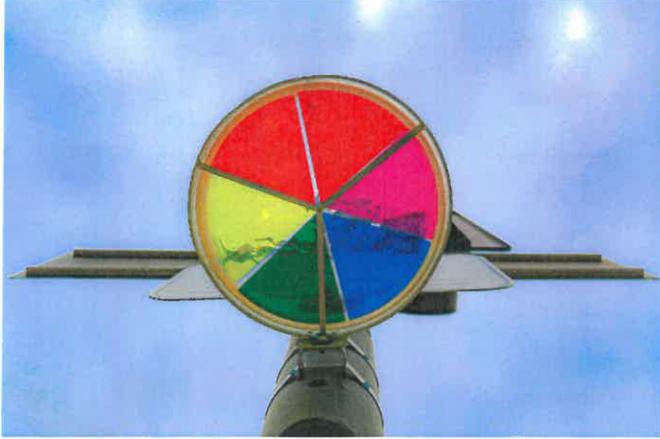
Attachment 6 - Safe Routes to School Plans

	Top 50 School Projects	Plan Status	Construction Status	Construction Complete Date
1	Hollywood High and Selma Avenue Elementary Schools	Complete	Complete	2019
2	West Vernon and Menlo Ave Elementary Schools	Complete	Complete	2019
3	Dolores Huerta, 28th St, and Quincy Jones Elementary Schools	Complete	Under Construction	2020
4	Breed St and Sheridan St Elementary Schools	Complete	Under Construction	2020
5	Alexandria Avenue Elementary School	Complete	Grant Funds Secured	2023
6	112th Street and Lovelia Flournoy Elementary Schools	Complete	Grant Funds Secured	2023
7	Liechty Middle and Esperanza Elementary Schools	Complete	Grant Funds Secured	2023
8	Gratts Learning Academy & Gratts Early Education Center	Complete	Grant Funds Secured	2023
9	10th Street Elementary School	Complete	Grant Funds Secured	2023
10	Lockwood Elementary	Complete	Unfunded	TBD
11	Grant Elementary	Complete	Unfunded	TBD
12	Berendo Middle School	Complete	Unfunded	TBD
13	Los Angeles Elementary	Complete	Unfunded	TBD
14	Mariposa-Nabi Primary Center Elementary and Hobart Boulevard Elementary Schools	Complete	Unfunded	TBD
15	Charles White and MacArthur Park Elementary Schools	Complete	Unfunded	TBD
16	Hoover Street and Leo Politi Elementary Schools	Complete	Unfunded	TBD
17	66th Street and 75th Street Elementary Schools	Complete	Unfunded	TBD
18	Washington Carver Middle School; Ascot Avenue and harmony Elementary Schools	Complete	Unfunded	TBD

19	Manchester Avenue Elementary School	Complete	Unfunded	TBD
20	Magnolia Avenue Elementary School	Complete	Unfunded	TBD
21	Young Oak Kim Academy	Complete	Unfunded	TBD
22	Aurora Elementary School	Complete	Unfunded	TBD
23	Frank Del Olmo Elementary	Complete	Unfunded	TBD
24	Lake Street Primary and Union Avenue Elementary Schools	Complete	Unfunded	TBD
25	Dayton Heights Elementary	Complete	Unfunded	TBD
26	Commonwealth Avenue Elementary School and Lafayette Park Primary Center	Complete	Unfunded	TBD
27	Cabrillo Avenue Elementary School	Complete	Unfunded	TBD
28	Vermont Avenue Elementary School	Complete	Unfunded	TBD
29	Alta Loma Elementary School	Complete	Unfunded	TBD
30	Van Nuys Elementary School	Complete	Unfunded	TBD
31	Panorama City Elementary School	Complete	Unfunded	TBD
32	Westminster Avenue Elementary School	Complete	Unfunded	TBD
33	Ramona Elementary School and Lexington Avenue Primary Center	Complete	Unfunded	TBD

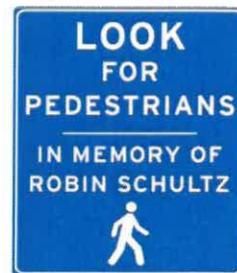
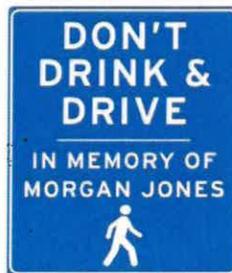
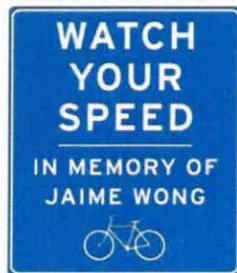
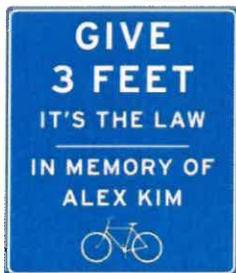
Attachment 7 - Rainbow Halo and Roadside Memorial Signs

Rainbow Halo Memorials - Example and Locations Installed



	Installation Date	Location
1	6/24/2019	Foothill Blvd/Wentworth Intersection (removed due to vandalism)
2	7/22/2019	Woodman/Addison Intersection
3	7/9/2019	4230 Normandie Ave, Los Angeles, CA 90037
4	7/17/2019	Culver/Slauson Intersection
5	9/11/2019	Wentworth/Wheatland
6	12/10/2019	5256 Alhambra Ave, Los Angeles, CA 90032
7	12/11/2019	La Cienega/Whitworth Intersection
8	11/15/2019	17200 Ventura Blvd, Los Angeles, CA 91316

Roadside Memorial Signs - Examples and Locations Installed



	Installation Date	Location
1	8/30/19	De Soto Ave north of Burbank Blvd

Attachment 8 - Pilot Project Elements

Speed Table - Los Angeles, CA



Modular Refuge Island Photo - New York, NY



Left Turn Calming - New York, NY



Attachment 9 - Priority Intersections

	Rank	Intersection	Council District
1	1	Pacific Coast Hwy & Temescal Canyon Rd	11
2	2	Gaffey St & Westmont Dr	15
3	2	Roscoe Blvd & Winnetka Ave	3
4	2	Vernon Ave & Central Ave	9
5	2	Vista Del Mar & Imperial Hwy	11
6	2	Hollywood Blvd & Western Ave	13
7	7	Tampa Ave & Roscoe Blvd	3
8	7	Burbank Blvd & Woodley Ave	6
9	7	Manchester Ave & Vermont Ave	8
10	12	La Brea Ave & Adams Blvd	10
11	12	Victory Blvd & Coldwater Canyon Ave	2
12	12	Florence Ave & Hoover St	8
13	12	Olympic Blvd & Orme Ave	14
14	12	Pacific Coast Hwy & Figueroa Pl	15
15	12	Sherman Way & Hayvenhurst Ave	6
16	12	Sunset Blvd & Fairfax Ave	4
17	12	Victory Blvd & Wilbur Ave	3
18	12	Victory Blvd & Reseda Blvd	3
19	12	Lincoln Blvd & Washington Blvd	11
20	12	Sepulveda Blvd & Century Blvd	11
21	12	Foothill Blvd & Balboa Blvd	12
22	12	Wilshire Blvd & Western Ave	10

	Rank	Intersection	Council District
23	12	Culver Blvd & Slauson Ave	11
24	27	Burbank Blvd & Hayvenhurst Ave	6
25	27	Nordhoff St & Woodley Ave	12
26	27	Lassen St & Winnetka Ave	12
27	27	Parthenia St & Woodley Ave	12
28	27	Van Nuys Blvd & Woodman Ave	6
29	27	Highland Ave & Pat Moore Way	4
30	27	Adams Blvd & Buckingham Rd	10
31	27	Devonshire St & Balboa Blvd	12
32	27	Pacific Coast Hwy & Normandie Ave	15
33	27	Pacific Ave & Rose Ave	11
34	27	Crenshaw Blvd & Washington Blvd	10
35	27	La Brea Ave & Rodeo Rd	10
36	27	Valley Circle Blvd & Victory Blvd	3
37	27	Seaside Ave & Navy Way	15
38	27	Mission Rd & Valley Blvd	1
39	27	Pacific Coast Hwy & Vermont Ave	15
40	27	Culver Blvd & Jefferson Blvd	11
41	27	Sepulveda Blvd & Parthenia St	6
42	27	Sherman Way & Bellaire Ave	2
43	27	Imperial Hwy & Figueroa St	8
44	27	Arlington Ave & Martin Luther King Jr Blvd	8
45	27	Washington Blvd & Ocean Ave	11

	Rank	Intersection	Council District
46	27	Nordhoff St & Balboa Blvd	12
47	27	Manchester Ave & Broadway	8
48	27	Roscoe Blvd & Reseda Blvd	12
49	27	Florence Ave & Avalon Blvd	9
50	27	Topanga Canyon Blvd & Parthenia St	12
51	27	Carson St & Normandie Ave	15
52	27	Sherman Way & Woodman Ave	2
53	27	Lankershim Blvd & Oxnard St	2
54	27	Central Ave & Imperial Hwy	15
55	27	La Brea Ave & Washington Blvd	10
56	27	Pacific Coast Hwy & Sunset Blvd	11
57	27	Manchester Ave & Figueroa St	8
58	27	Gage Ave & Broadway	9
59	27	Sunset Blvd & Highland Ave	13
60	27	La Cienega Blvd & Olympic Blvd	5