

APPENDIX H

FINAL RECOMMENDED PROJECT PRIORITIZATION LIST

Appendix H - Recommended Project Prioritization List

Priority ID	Location	Milepost	Project Description
1	John Tyler Dr. to Topanga Canyon Rd.	48.491 - 40.769	Install communication between signals and connect signals back to Caltrans TMC. Develop and implement timing plans. Outdated signal coordination plans need to be optimized with appropriate cycle lengths and time-based schedule for proper traveling speeds and to generate reasonable gaps for cross streets and driveways. Review and update timing settings including Max2 and Max3. Consider deployment of state-of-the-art adaptive timing system to develop optimized timing plans based upon real time traffic conditions. Insure that the adaptive system is compatible with a high volume arterial.
2	Trancas Canyon Rd. to Paradise Cove Rd.	55.650 - 52.162	Provide interconnected signal system. Develop timing plans for weekday and weekend periods. Implement timing plans based on time of day or in response to frequently occurring traffic patterns.
3	Corridorwide	n/a	Upgrade stripe width to 6-inch standard bike lane stripe. Provide bike lane markings where parking is prohibited. An 8-inch stripe, as used for turn lane striping, may also be considered. Do not designate as bike lane unless parking prohibited or width allows room for bikes and parking
4	Paradise Cove Rd.	52.162	Construct raised median within 500 feet of intersection in both directions wherever a double-double yellow line exists and extend left-turn lane by 100 feet
5	Corridorwide	n/a	In general, modify striping of right turn lanes on PCH and replace with a wider edge line and skip striping approaching intersections
6	Webb Way	47.441	Modify signal phasing so vehicles turning through crosswalk do not conflict with pedestrians
7	Moonshadow's Restaurant	43.096	Install overhead warning signs per Caltrans Standard ES7J 200 feet on each side prior to parking area and building with pedestrian crossing signs, consider experimental action-style pedestrian signs via Federal request to experiment
8	Corridorwide	n/a	Increase law enforcement efforts for vehicles traveling over speed limit
9	Corridorwide	n/a	Detailed evaluation of beach parking areas to determine if additional off-street parking can be achieved
10	Zuma Beach area	55.612	Construct raised medians in areas where double-yellow lines exist in the vicinity of Zuma Beach, especially where yellow posts are currently installed
11	Kanan Dume Rd. to Latigo Canyon Rd.	54.020 - 51.061	Install permanent raised median in the double-yellow areas, and where enough width exists, consider landscaped medians
12	Cross Creek Rd.	47.091	Restripe intersection to provide northbound right turn lane and move shoulder line over north of the intersection
13	Serra Rd. to Carbon Canyon Rd.	46.811 - 44.961	Narrow travel lanes and center turn lane slightly through central Malibu to provide wider shoulder.

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14	Crosswalk between McDonald's and Busch Realty	45.841	Change the uncontrolled crosswalk with warning lights to a HAWK pedestrian signal with median refuge and potential curb extensions.
15	Big Rock Dr.	42.491	Install additional overhead warning sign per Caltrans Standard Plan ES7J northbound at approximately 400' prior to intersection, sign should read "Signal Ahead"
16	Corridorwide	n/a	Increase distance to advance detection to meet spacing requirements for prevailing speeds to reduce acceleration needed to stop
17	Corridorwide	n/a	Install post delineators on outside of curves north of John Tyler Drive where feasible, per Caltrans standard spacing guidelines, especially where adjacent land is undeveloped or installation of delineators is well suited.
18	El Pescador Beach Rd.	58.856	Consider restriping to widen shoulders by narrowing lanes to permit parking and provide buffer area.
19	El Matador Beach Rd.	58.848	Consider restriping to widen shoulders surrounding El Matador Beach area by narrowing lanes to permit parking and provide buffer area
20	Broad Beach Rd. North to Trancas Canyon Rd.	58.461 - 56.851	Consider extruded concrete median where median is less than 10 feet wide
21	Trancas Canyon Rd.	56.851	Modify signal phasing to allow left turns onto Trancas from PCH when crosswalk is active
22	Trancas Canyon Rd.	56.851	Construct northbound right-turn lane and bike channel onto Trancas Canyon Rd., consider installation of right turn arrow for heavy movement
23	Heathercliff Rd.	54.341	Increase the storage length of NBL turns from PCH onto Heathercliff Road by 100' from 230' to 330'
24	Paradise Cove Rd.	52.162	Widen shoulder on inland side to 12 feet within 500 feet of intersection in both directions, construct 5 foot wide sidewalk behind seven foot shoulder at intersection
25	Escondido Beach Road / Malibu Cove Colony Drive	51.801	Increase the storage length of NBL turns from PCH onto Malibu Cove Colony Drive by 100' from 110' to 210'
26	Webb Way	47.441	Increase the storage length of NBL turns from PCH into Webb Way by eight cars
27	Webb Way	47.441	Increase the storage length of SBL turns from PCH into Webb Way by six cars
28	Webb Way	47.441	Restripe to change acceleration lane to a standard shoulder to discourage merging
29	Malibu Pier	46.535	Establish signal control for southbound left turn
30	La Costa Beach Club (21440 PCH)	44.461	Study feasibility of narrowing the striping in the vicinity of La Costa beach club to widen the shoulders. Consider a raised median area with refuge for the crosswalk and curb extensions in conjunction with potential signalization of the La Costa crosswalk that is planned by the City of Malibu.

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31	Las Flores Canyon Rd.	44.151	Provide protected left turn arrows from PCH
32	Moonshadow's Restaurant	43.096	Construct a median in front of Moonshadow's. Provide left-turn lane at north end of parking area for entry to restaurant. Construct raised median refuge cut out in front of front door so that pedestrians can wait in median.
33	Pena Rd. Beach Turnout	41.805	Construct raised median for PCH with turn pocket into the north end of the turnout area. Median will prevent left turns into or from south end of the turnout area, so that traffic must turn right and make U-turns around the median area. Study area closely in upcoming parking study to maximize parking yield.
34	Corridorwide	n/a	Create bicycle hotline to report roadway deficiencies
35	Webb Way to Las Flores Canyon Rd.	47-441 - 44.151	Evaluate vehicle speeds to determine if lower speed limit is warranted
36	La Piedra Beach Rd.	58.901	Consider restriping to widen shoulders by narrowing lanes to permit parking and provide buffer area.
37	Morning View Dr.	55.650	Extend right turn lane from PCH onto Morning View Dr., consider installing a right turn arrow for this heavy movement
38	Bonsall Dr.	54.911	If shifting alignment is not possible, convert intersection approach to a right-in, right-out only and trim back vegetation to improve motorists sight distance towards the south. <u>Restripe PCH to restore inland shoulder</u>
39	Heathercliff Rd.	54.341	Relocate crosswalk to other side of intersection and rephase signal for pedestrian movements
40	Heathercliff Rd.	54.341	Widen right turn lane to allow dashed bike stripe
41	Kanan Dume Rd.	54.020	Modify signal phasing at intersection to allow more time for the left-turn onto Kanan Dume Rd.
42	Zumirez Dr.	53.671	Restripe Zumirez signal to restore shoulder to inland side by narrowing travel lanes, removing the wide median nose stripe, maintain right turn lane
43	Paradise Cove Rd.	52.162	Modify signal phasing to eliminate pedestrian-vehicle conflict for northbound vehicles turning left onto PCH
44	470' west of Escondido Beach Road / Malibu Cove Colony Drive	51.890	Construct a permanent raised median in the double-yellow area before and after Geoffreys's for approximately 1800 feet.
45	Escondido Beach Road / Malibu Cove Colony Drive	51.801	Install pedestrian crossing sign and flashers
46	John Tyler Dr.	48.491	Modify signal to provide protected left-turn phase to turn onto John Tyler from PCH
47	John Tyler Dr.	48.491	Restripe the acceleration lane on the inland side as a full shoulder
48	Malibu Canyon Rd.	48.171	Reconstruct crosswalk ramps to ADA standards at northbound inland corner

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49	Malibu Canyon Rd.	48.171	Shorten right-turn lane approaching intersection based upon queueing needs
50	Malibu Canyon Rd.	48.171	Widen right turn lane to provide channel for through bikes
51	1700' west of Webb Way	47.763	Convert free right turn and merge lane from Civic Center Way approximately 1700' west of Webb Way into a yield to turn condition. Restripe shoulder to discourage motorists from merging into northbound traffic
52	Webb Way	47.441	Reconstruct crosswalk ramps to ADA standards
53	Webb Way	47.441	Install countdown pedestrian signals
54	Cross Creek Rd.	47.091	Increase the storage length of SBL turns from PCH into Cross Creek Road by 150' from 300' to 450'
55	Serra Rd. to Malibu Pier	46.811	Construct continuous raised median and reduce median width to provide wider shoulders
56	Malibu Pier	46.535	Install pedestrian signal countdown heads
57	Carbon Canyon Rd.	44.961	Restripe right-turn lane on inland side with a shoulder stripe dashed approaching intersection.
58	Rambla Pacifico Rd.	44.171	Provide protected northbound left-turn phase from PCH into gas station
59	Las Flores Canyon Rd. to Rambla Pacifico Rd.	44.151 - 44.171	Study to realign across intersections to eliminate broken back striping due to change in median and shoulder widths
60	Las Flores Canyon Rd. to Rambla Pacifico Rd.	44.151 - 44.171	Widen bridge over Las Flores Creek to provide sidewalk on ocean side from Rambla Pacifico intersection to Dukes entrance. Maintain sufficient shoulder for bicycling, but utilize surplus area to move signal poles behind curb.
61	Las Flores Canyon Rd.	44.151	Provide ADA compliant improvements where feasible, including wheelchair ramps and raised curb returns
62	Las Flores Canyon Rd.	44.151	Reconstruct signal to eliminate condition where signal poles are not exposed to traffic on roadway shoulder.
63	Las Flores Canyon Rd.	44.151	Relocate signal detection so that vehicles are less likely to run red lights
64	Las Flores Canyon Rd.	44.151	Relocate crosswalk to eliminate pedestrian-vehicle conflict for Las Flores vehicles turning left onto PCH
65	Big Rock Dr.	42.491	Install a vehicle head on the 1-A pole in the northeast corner of the intersection for NBT movements
66	Big Rock Dr.	42.491	Monitor new protected/permissive left turn from PCH for effectiveness
67	Big Rock Dr.	42.491	Construct raised median east of the intersection for 150 feet
68	Corridorwide	n/a	Replace blue side-street name signs that intersect PCH with larger letter, more visible signs. Also consider advance street name signs at prominent intersections.
69	Encinal Canyon Rd.	59.401	Restripe northbound right-turn lane as a full shoulder with a dashed bike stripe

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70	Trancas Canyon Rd.	56.851	Construct ADA compliant sidewalk and ramps on the inland side for the length of the shopping center and reconstruct inland side driveway to provide appropriate deceleration area
71	Trancas Canyon Rd.	56.851	Reconstruct driveway to provide appropriate deceleration area
72	Guernsey Avenue	56.511	Provide street light at intersection
73	610' east of Westward Beach Rd./Bonsall Dr.	54.791	Shift roadway alignment and construct shoulder on inland side from 610' east of Westward Beach to Zuma Beach access overpass by eliminating the center turning lanes
74	300' east of Kanan Dume Rd.	54.000	Move existing bus stop to Kanan Dume Rd. intersection and provide sidewalk and ADA ramps to accommodate pedestrians
75	820' east of Zumirez Dr. (Pointe Malibu)	53.511	Restripe deceleration and acceleration lanes to full shoulders
76	Latigo Canyon Drive	51.061	Provide street light at intersection
77	Latigo Canyon Drive	51.061	Widen shoulder to provide striping for dashed bike lane and right turn lane from PCH onto Latigo Canyon Dr.
78	Malibu Seafood	49.961	Construct a new pedestrian underpass crossing in the close vicinity of Malibu Seafood
79	Puerco Canyon Road	49.311	Restripe right-turn lane on inland side with a shoulder
80	John Tyler Dr.	48.491	Eliminate conflict with turning vehicles through crosswalk
81	John Tyler Dr.	48.491	Construct ADA sidewalk to connect west side crosswalk to bus pad on both sides of PCH
82	John Tyler Dr.	48.491	Widen right turn lane to allow dashed bike stripe
83	Webb Way to 23634 PCH	47.441	Stripe a shoulder merge taper line for lane drop, allow parking in this area
84	Webb Way	47.441	Relocate bus stop nearer to traffic signal
85	Webb Way at Civic Center Way	47.441	Consider roundabout at this intersection. A single-lane roundabout would suffice
86	Cross Creek Rd.	47.091	Reconstruct crosswalk ramps to ADA standards
87	Malibu Pier	46.535	Reconstruct crosswalk ramps to ADA standards, consider relocating bus stop on ocean side to Pier signal
88	22730 PCH (McDonald's ped crossing)	46.091	Increase width of ADA ramps on both sides as they are quite narrow, this may mean moving the crosswalk to the east by 1' or 2'
89	2000' west of Carbon Canyon Road	44.582	Consider an installation of a crosswalk and appropriate warning or crossing treatment at this location
90	Rambla Vista West	44.841	Replace short right-turn lane on inland side with a dashed striped shoulder

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Priority ID	Location	Milepost	Project Description
91	Rambla Vista East to Rambla Pacifico Road	44.261 - 44.171	Study feasibility of narrowing shoulder in front of Rambla Pacifico shopping center to increase area for parking along frontage road. This project should be included in the imminent parking study.
92	Las Flores Canyon Rd. to Rambla Pacifico Rd.	44.151 - 44.171	Study feasibility to construct bridge connecting Rambla Pacifico to Las Flores Canyon Rd. north of PCH to eliminate the need for the Rambla Pacifico traffic signal
93	Las Flores Canyon Rd.	44.151	Consider widening the shoulder if any surplus width is available in travel lanes or median.
94	830' west of Big Rock Dr.	42.651	Construct a raised median in area where double-double yellow line exists at the end of the left-turn lane, provide landscaping pockets to obtain limited traffic calming effect from plantings
95	Big Rock Dr.	42.491	Increase the length of the southbound left-turn lane on PCH to 200 feet with a 90 feet transition by striping change
96	Big Rock Dr.	42.491	Construct a curb return with ADA ramp so that the traffic poles can be located behind it, narrow the opening and tighten up the radius so the curb return is on top of the existing pavement
97	Big Rock Drive to Pena Road	42.491 - 41.805	Restripe to narrow median where k rail occupies shoulder in this area
98	Decker Canyon Rd.	59.901	Widen shoulder to provide striping for dashed bike lane and right turn lane from PCH onto Decker Canyon Rd.
99	El Pescador Beach Rd.	58.856	Provide street light at beach access
100	Encinal Canyon Rd.	59.401	Install street light at intersection
101	El Matador Beach Rd.	58.848	Provide street light at beach access
102	Lunita Rd.	57.391	Install street light at intersection
103	Lunita Rd.	57.391	Widen shoulder to provide striping for dashed bike lane and right turn lane from PCH onto Lunita Rd.
104	Busch Dr.	55.041	Construct fourth leg of intersection to provide direct access to Zuma Beach and connection across creek to Westward Beach Rd. Permits elimination of existing northbound left-turn lane from PCH to Westward Beach and allows restoration of
105	Escondido Beach Road / Malibu Cove Colony Drive	51.801	Install street light at intersection on inland side
106	Latigo Shores Drive / Seagull Way	50.801	Provide street light at intersection
107	Latigo Shores Drive / Seagull Way	50.801	Widen shoulder to provide striping for dashed bike lane and right turn lane from PCH onto Latigo Shores Dr.
108	Corral Canyon Rd. to Puerco Canyon Rd.	50.391 - 49.311	Widen shoulder on inland side where parking occupies the entire shoulder. Reconstruct the median to provide full height curb. Opportunity to narrow median and increase shoulder width is possible.

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109	John Tyler Dr.	48.491	Remove obstruction (median curb) in crosswalk for both the east and west legs
110	John Tyler Dr.	48.491	Restripe to eliminate right turn from center lane. Double right turn through crosswalk is not justified by right turn volume
111	Malibu Canyon Rd.	48.171	Install bus stop on PCH
112	Malibu Canyon Rd.	48.171	Widen shoulder to provide striping for dashed bike lane and right turn lane from PCH onto Winter Mesa Dr.
113	Webb Way	47.441	Remove median curb obstruction to straighten crosswalk
114	Malibu Rd. to Cross Creek Rd.	47.241 - 47.091	Build sidewalk behind trees on ocean side from Cross Creek Rd. to Malibu Rd.
115	22333 PCH (Busch Realty ped crossing)	45.571	Move obstructing signal controller to improved location (it's in the middle of the sidewalk, with a less than 5' ADA approved clearance on either side)
116	Las Flores Canyon Rd. to Rambla Pacifico Rd.	44.151 - 44.171	Consider narrowing openings for Las Flores and Rambla Pacifico approaches.
117	Topanga Canyon Rd.	40.769	Upgrade signal system and conduct study to develop weekend timing plan that optimizes southbound flow along PCH based upon summer and weekend traffic counts
118	El Matador Beach	58.848	Consider possibility to enlarge parking lot
119	Trancas Canyon Rd.	56.851	Provide a sidewalk from shopping center and construct new pedestrian underpass crossing to beach
120	Paradise Cove Rd.	52.162	Widen shoulder to provide striping for dashed bike lane and right turn lane from PCH onto Paradise Cove Rd.
121	Corral Canyon Rd. to Beach Access	49.961	Construct complete pedestrian walkway on ocean side from Corral Canyon Rd. signal to beach property
122	Malibu Canyon Rd.	48.171	Restore shoulder stripe west of the intersection
123	Malibu Canyon Rd.	48.171	Provide ADA access from intersection to City Park
124	Malibu Rd.	47.241	Realign Malibu Rd intersection to eliminate acute angle and merging. Provide right angle intersection.
125	Carbon Canyon Rd. to Rambla Pacifico	44.961 - 44.171	Study feasibility to build a complete sidewalk from Carbon Canyon Rd. to Rambla Pacifico on the inland side
126	Rambla Pacifico Rd.	44.171	Realign Rambla Pacifico to narrow and improve channelization at PCH and increase separation from antique bridge rail. Increase left-turn lane storage for short turn pockets
127	Topanga Canyon Rd.	40.769	Lengthen southbound left turn storage bay to reduce potential overflow into through lane. (should be increased from 300' to 350', as the 95th queue distance is 350' for the weekend). Also lengthen time available to service lane during weekend.

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128	Decker Canyon Rd.	59.901	Evaluate intersection modification to a one- or two-lane roundabout. A one-lane roundabout could possibly provide space for additional parking.
129	330' west of Paradise Cove Rd.	52.222	Relocate bus stop to intersection of Paradise Cove Rd.
130	Encinal Canyon Rd.	59.401	Consider realignment of Encinal Canyon Road to intersect with La Piedra Beach Rd. Also consider roundabout control for new aligned intersection