Public Works & Sustainability Commission

REDONDO BEACH

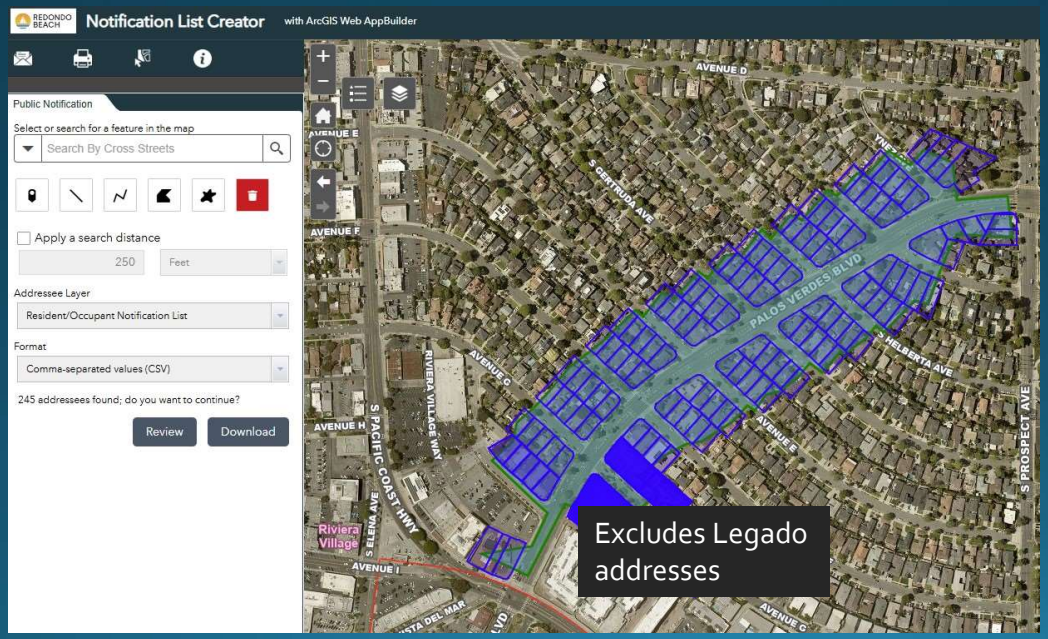
January 27, 2025

J.1 Palos Verdes Boulevard Bike Lane Feasibility

REDONDO BEACH

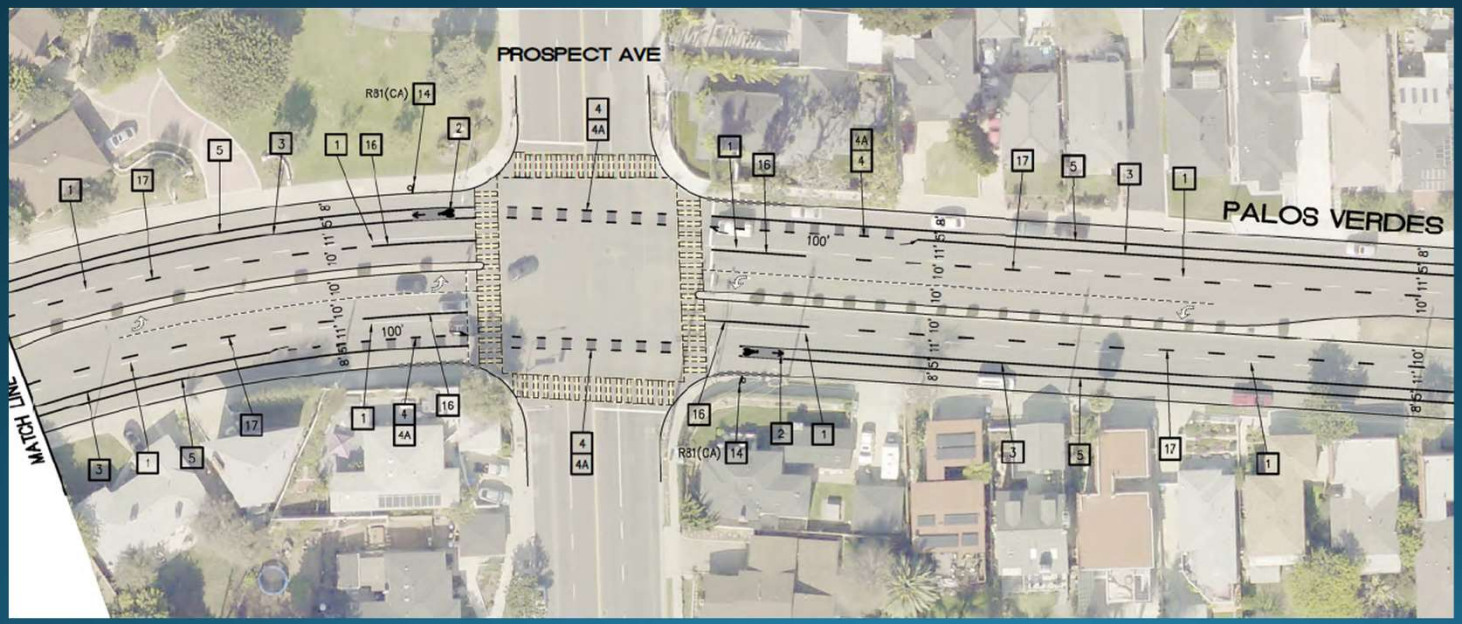
Note

- This agenda item discussion pertains to bicycle lanes along Palos Verdes Boulevard (PVB) per Council direction.
- Truck routes were previously discussed at PWSC in March 2024.
- Truck routes and traffic safety also discussed at PSC in January 2025.
- Traffic safety and truck routes are two separate issues, not mutually exclusive.
- Notice provided via postcard within 250 feet of PVB corridor.



Background

- City approved Class II bicycle lanes on Palos Verdes Boulevard (PVB) between Irena and Torrance border east of Prospect.
- PVB is narrower west of Irena. Dedicated bike lanes requires either parking removal or reducing PVB to one lane in each direction. Prior approved project did not consider any parking or lane removals.
- City Council directed staff to study dedicated bicycle lanes on PVB (PCH to Irena).



Definitions

- Per State of California, bicycle facilities are defined as Class I, II, III, or IV.

Class II Lane w/Buffer
(MBB)

Class II Lane
(Beryl)

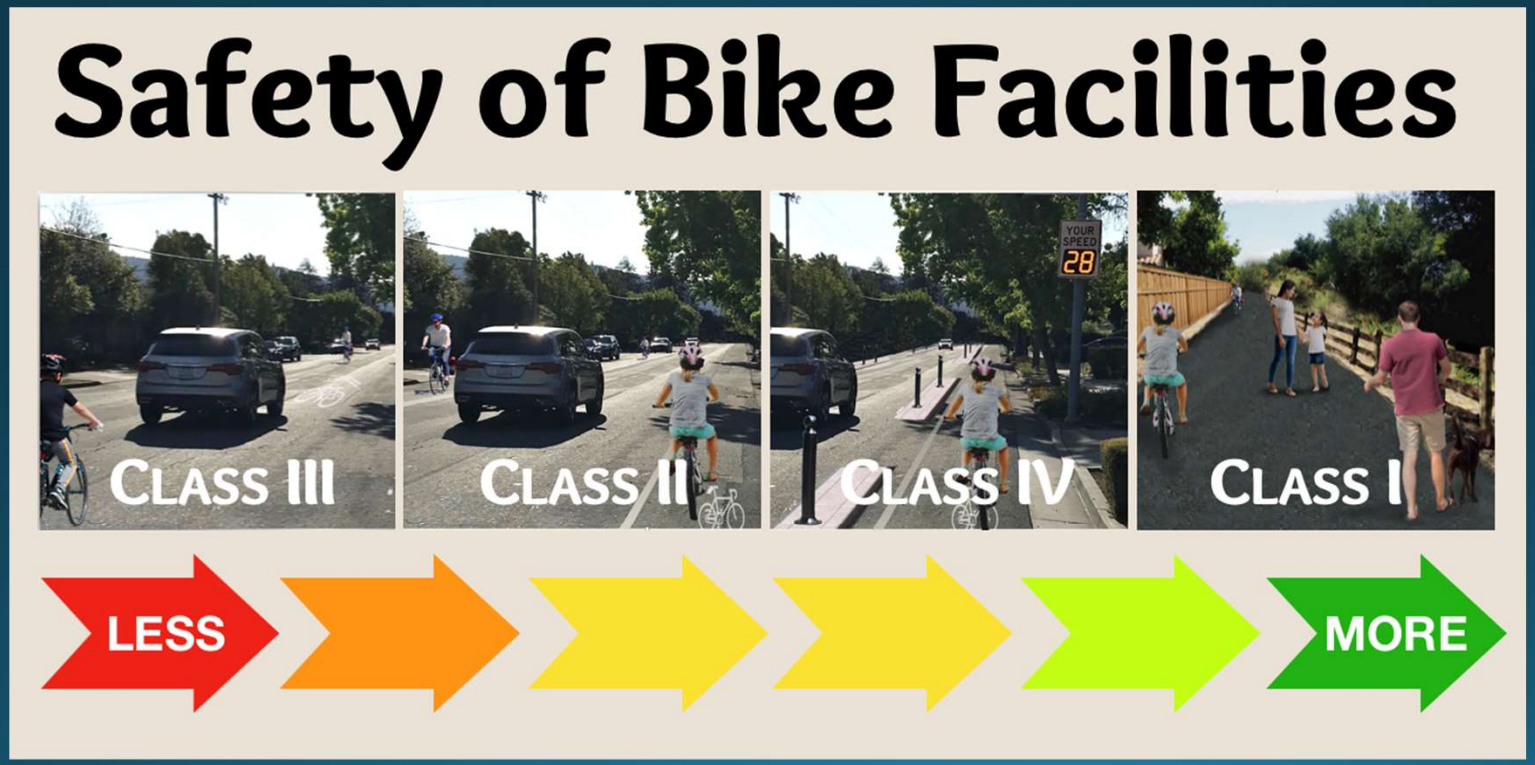
Class I Bike/Ped Path
(Beach path)

Class III Route
(Felton)
[Sharrows not allowed on 35+ mph streets]

Class IV Protected Lane (Uni/Bi-directional)
(Harbor Dr)

Safety Comparison

- Different classes appropriate for different streets, safer usually requires more space
- Slower neighborhood residential streets considered appropriate for Class III, busier and faster streets may warrant higher levels of comfort/separation



Travel Lane Reduction or Parking Removal?

- Red line = PVB corridor.
- Purple lines = city boundaries.
- Numbers = # of lanes.
- Existing Class II bicycle lanes south of PCH, north of Sepulveda.

- Bi-directional average daily traffic and 85th percentile speeds measured in December 2024 at Avenue E.
  - 35 mph speed (30 mph limit)
  - 16,147 vehicles per day
- While this volume could be handled with one lane in each direction, requires further study and regional cooperation with Torrance to avoid abrupt merges.
- Removing street parking between PCH and Irena determined to be easiest and simplest way to provide bicycle lanes.

Parking Utilization Study

Tuesday, 17 December 2024

Prepared by National Data & Surveying Services

Parking Study

Project ID: 24-020445
City: Redondo Beach, CA

Date: 12/17/24
Day: Tuesday

Number of spaces provided for "Unmarked" segments are only approximate. Occupancy may exceed inventory.

Segment	Street	From	To	Curb Type	Side of the Street	Marked/ Unmarked	Restriction	Measurement (ft)	Approximate Space	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	AVG
OSP-001	Palos Verdes Blvd	Avenue H	Pacific Coast Hwy	Regular	N	Unmarked	No Stopping Anytime	0'	0	0	0	0	0	0	0	1	1	1	1	0	0	0
OSP-002	Palos Verdes Blvd	Pacific Coast Hwy	Avenue H	Regular	S	Unmarked	No Parking 2am-6am Vehicles more than 22ft Long or a Combination of 8ft high and 7ft wide on all City Streets in Redondo Beach	145'	7	0	0	0	0	1	1	0	0	0	0	0	0	0
OSP-003	Palos Verdes Blvd	Avenue G	Avenue H	Regular	N	Unmarked	No Stopping Anytime	0'	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-004	Palos Verdes Blvd	Avenue H	Avenue G	Regular	S	Unmarked	No Stopping Anytime	0'	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-005	Palos Verdes Blvd	Ave F	Avenue G	Regular	N	Unmarked	No Parking Wed 9am-12nn/Parking by Permit Only 8pm-3am Everyday	170'	9	4	3	1	1	0	2	0	0	0	0	0	0	1
OSP-006	Palos Verdes Blvd	Avenue G	Ave F	Regular	S	Unmarked	No Parking Wed 9am-12nn/Parking by Permit Only 8pm-3am Everyday	40'	2	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-007	Palos Verdes Blvd	Avenue E	Ave F	Regular	N	Unmarked	No Parking Wed 9am-12nn	150'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-008	Palos Verdes Blvd	Ave F	Avenue E	Regular	S	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	145'	7	0	0	0	0	0	0	1	0	0	0	0	0	0
OSP-009	Palos Verdes Blvd	S Gertruda Ave	Avenue E	Regular	N	Unmarked	No Parking Wed 9am-12nn	105'	5	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-010	Palos Verdes Blvd	Avenue E	S Gertruda Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn	165'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-011	Palos Verdes Blvd	S Helberta Ave	S Gertruda Ave	Regular	N	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	160'	8	0	0	0	1	1	0	4	2	2	1	0	0	1
OSP-012	Palos Verdes Blvd	S Gertruda Ave	S Helberta Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn	170	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-013	Palos Verdes Blvd	S Irena Ave	S Helberta Ave	Regular	N	Unmarked	No Parking Wed 9am-12nn	165'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-014	Palos Verdes Blvd	S Helberta Ave	S Irena Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn	170'	8	3	2	2	0	0	1	0	0	0	0	0	1	1
OSP-015	Palos Verdes Blvd	S Prospect Ave	S Irena Ave	Regular	N	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	440'	22	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-016	Palos Verdes Blvd	S Irena Ave	S Prospect Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	305'	15	2	3	1	1	1	1	0	1	2	2	3	3	2

Palos Verdes Blvd	Avenue H	Pacific Coast Hwy
Palos Verdes Blvd	Pacific Coast Hwy	Avenue H
Palos Verdes Blvd	Avenue G	Avenue H
Palos Verdes Blvd	Avenue H	Avenue G
Palos Verdes Blvd	Ave F	Avenue G
Palos Verdes Blvd	Avenue G	Ave F
Palos Verdes Blvd	Avenue E	Ave F
Palos Verdes Blvd	Ave F	Avenue E
Palos Verdes Blvd	S Gertruda Ave	Avenue E
Palos Verdes Blvd	Avenue E	S Gertruda Ave
Palos Verdes Blvd	S Helberta Ave	S Gertruda Ave
Palos Verdes Blvd	S Gertruda Ave	S Helberta Ave
Palos Verdes Blvd	S Irena Ave	S Helberta Ave
Palos Verdes Blvd	S Helberta Ave	S Irena Ave
Palos Verdes Blvd	S Prospect Ave	S Irena Ave
Palos Verdes Blvd	S Irena Ave	S Prospect Ave

Utilization

	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	
0													
7	0%	0%	0%	0%	14%	14%	0%	0%	0%	0%	0%	0%	2%
0													
0													
9	44%	33%	11%	11%	0%	22%	0%	0%	0%	0%	0%	0%	10%
2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7	0%	0%	0%	0%	0%	0%	14%	0%	0%	0%	0%	0%	1%
5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
8	0%	0%	0%	13%	13%	0%	50%	25%	25%	13%	0%	0%	11%
8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
9	38%	25%	25%	0%	0%	13%	0%	0%	0%	0%	0%	13%	9%
22	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
15	13%	20%	7%	7%	7%	7%	0%	7%	13%	13%	20%	20%	11%

Saturday, 20 December 2024

Prepared by National Data & Surveying Services

Parking Study

Project ID: 24-020445
City: Redondo Beach, CA

Date: 12/14/24
Day: Saturday

Number of spaces provided for "Unmarked" segments are only approximate. Occupancy may exceed inventory.

Segment	Street	From	To	Curb Type	Side of the Street	Marked/ Unmarked	Restriction	Measurement (ft)	Approximate Space	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	AVG
OSP-001	Palos Verdes Blvd	Avenue H	Pacific Coast Hwy	Regular	N	Unmarked	No Stopping Anytime	0'	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-002	Palos Verdes Blvd	Pacific Coast Hwy	Avenue H	Regular	S	Unmarked	No Parking 2am-6am Vehicles more than 22ft Long or a Combination of 8ft high and 7ft wide on all City Streets in Redondo Beach	145'	7	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-003	Palos Verdes Blvd	Avenue G	Avenue H	Regular	N	Unmarked	No Stopping Anytime	0'	0	0	0	0	0	0	0	0	1	0	0	0	0	0
OSP-004	Palos Verdes Blvd	Avenue H	Avenue G	Regular	S	Unmarked	No Stopping Anytime	0'	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-005	Palos Verdes Blvd	Ave F	Avenue G	Regular	N	Unmarked	No Parking Wed 9am-12nn/Parking by Permit Only 8pm-3am Everyday	170'	9	2	2	2	3	3	2	2	2	2	2	2	2	2
OSP-006	Palos Verdes Blvd	Avenue G	Ave F	Regular	S	Unmarked	No Parking Wed 9am-12nn/Parking by Permit Only 8pm-3am Everyday	40'	2	0	0	0	0	0	0	0	0	0	0	1	1	0
OSP-007	Palos Verdes Blvd	Avenue E	Ave F	Regular	N	Unmarked	No Parking Wed 9am-12nn	150'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-008	Palos Verdes Blvd	Ave F	Avenue E	Regular	S	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	145'	7	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-009	Palos Verdes Blvd	S Gertruda Ave	Avenue E	Regular	N	Unmarked	No Parking Wed 9am-12nn	105'	5	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-010	Palos Verdes Blvd	Avenue E	S Gertruda Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn	165'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-011	Palos Verdes Blvd	S Helberta Ave	S Gertruda Ave	Regular	N	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	160'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-012	Palos Verdes Blvd	S Gertruda Ave	S Helberta Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn	170	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-013	Palos Verdes Blvd	S Irena Ave	S Helberta Ave	Regular	N	Unmarked	No Parking Wed 9am-12nn	165'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-014	Palos Verdes Blvd	S Helberta Ave	S Irena Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn	170'	8	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-015	Palos Verdes Blvd	S Prospect Ave	S Irena Ave	Regular	N	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	440'	22	0	0	0	0	0	0	0	0	0	0	0	0	0
OSP-016	Palos Verdes Blvd	S Irena Ave	S Prospect Ave	Regular	S	Unmarked	No Parking Wed 9am-12nn/90 Minute Parking Commercial Vehicles Over 3 Tons	305'	15	2	3	2	2	2	3	2	2	2	2	2	2	2

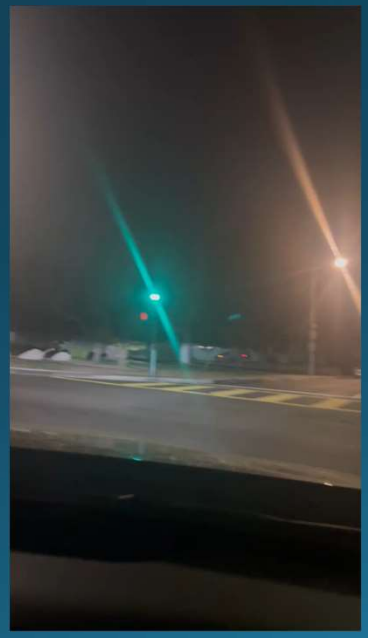
Utilization

				7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	AVG
Palos Verdes Blvd	Avenue H	Pacific Coast Hwy	0													
Palos Verdes Blvd	Pacific Coast Hwy	Avenue H	7	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	Avenue G	Avenue H	0													
Palos Verdes Blvd	Avenue H	Avenue G	0													
Palos Verdes Blvd	Ave F	Avenue G	9	22%	22%	22%	33%	33%	22%	22%	22%	22%	22%	22%	22%	24%
Palos Verdes Blvd	Avenue G	Ave F	2	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	50%	8%
Palos Verdes Blvd	Avenue E	Ave F	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	Ave F	Avenue E	7	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Gertruda Ave	Avenue E	5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	Avenue E	S Gertruda Ave	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Helberta Ave	S Gertruda Ave	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Gertruda Ave	S Helberta Ave	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Irena Ave	S Helberta Ave	8	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Helberta Ave	S Irena Ave	9	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Prospect Ave	S Irena Ave	22	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Palos Verdes Blvd	S Irena Ave	S Prospect Ave	15	13%	20%	13%	13%	13%	20%	13%	13%	13%	13%	13%	13%	14%

Summary

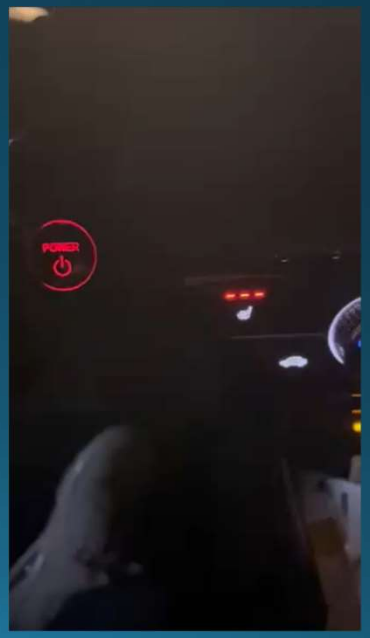
- Evening PW staff also collected parking data on eight (8) different nights (weekday/weekend) in December 2024 at 9:45 PM.
  - No more than five (5) vehicles parked on either side of PVB between PCH and Prospect.
- On any given block face in either direction of PVB, weekday or weekend:
  - No greater than 50% occupancy.
  - Most blocks have a capacity of 5-8 vehicles to be parked. No more than 3-4 vehicles parked along each block face.
  - Less than 10 vehicles parked along the entire PCH-Irena segment at any given time.

PVB EB: 12/6/2024 15:30

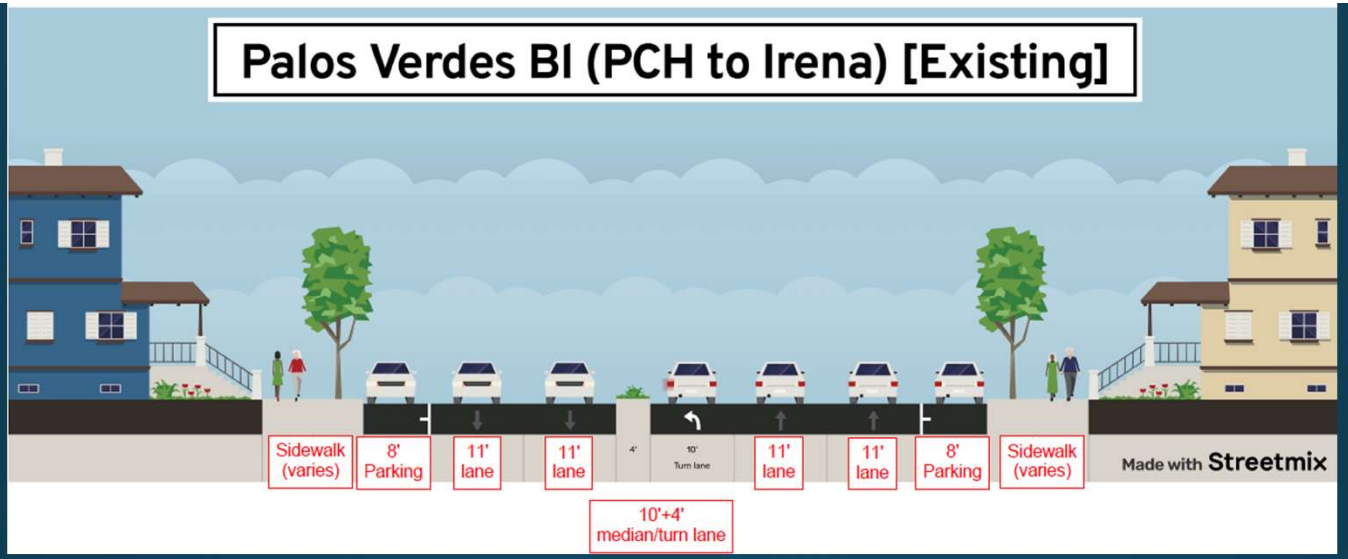


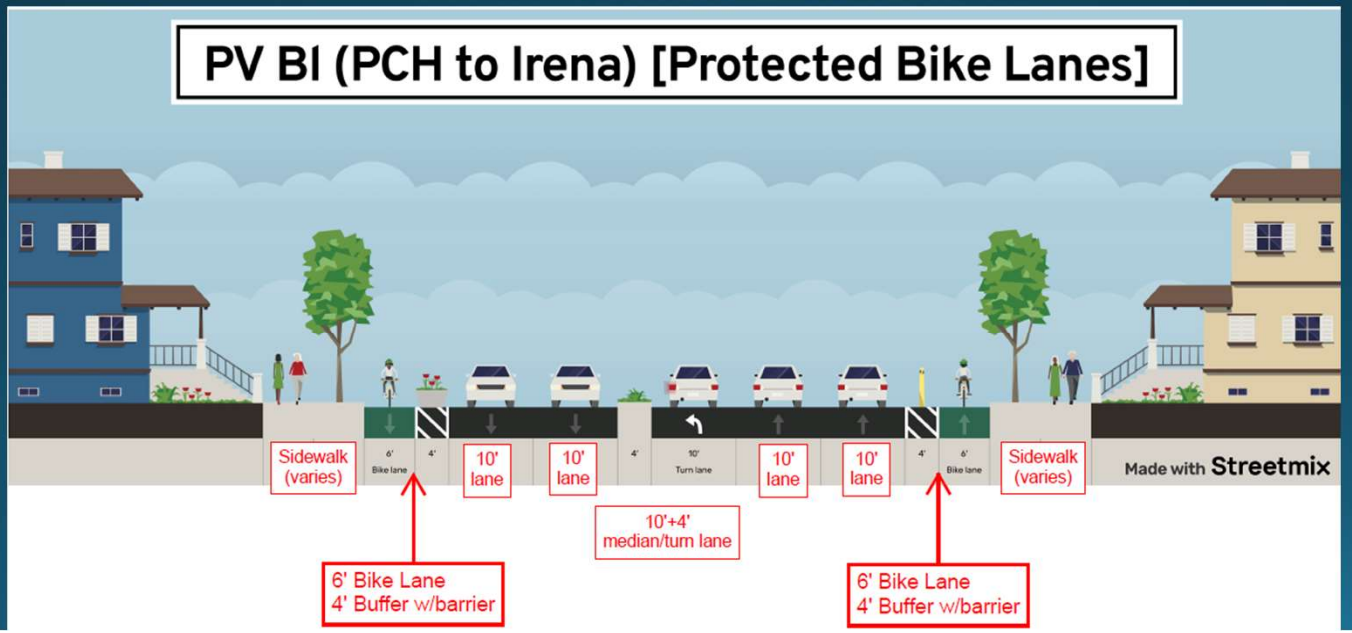
PVB EB/WB: 12/8/2024 18:30

PVB EB: 12/15/2024 21:00



PVB WB: 12/15/2024 21:00


Palos Verdes Bl (PCH to Irena) [Existing]
Sidewalk (varies)
8' Parking
11' lane
11' lane
4'
10' Turn lane
11' lane
11' lane
8' Parking
Sidewalk (varies)
Made with Streetmix
10'+4' median/turn lane


PV Bl (PCH to Irena) [Protected Bike Lanes]
Sidewalk (varies)
6' Bike lane
4'
10' lane
10' lane
4'
10' Turn lane
10' lane
10' lane
4'
6' Bike lane
Sidewalk (varies)
Made with Streetmix
10'+4' median/turn lane
6' Bike Lane 4' Buffer w/barrier
6' Bike Lane 4' Buffer w/barrier

Benefits and Costs of Bicycle Lanes on PVB

- Safer bike riders and other mobility devices (traffic safety)
- Reduced bike riding on sidewalks (traffic safety)
- Narrower vehicle lanes reduce speeding and crashes (traffic calming and safety)
- Improved bicycle access to Riviera Village (reduced traffic and parking)
- Connects to Class II bicycle lanes on PVB south of PCH (regional connectivity)
- Improved efficiency of public space
  - Multimodal public mobility vs. free on-street storage of private property (personal vehicles)

- $200,000 estimated cost of design and construction
- Not funded or designed at this time
- Type of barrier can be decided later, staff prefers rigid materials
- Requires coordination with Athens to deploy smaller size street sweeper

Available Alternatives

- Recommend City Council to fund design and construction of protected bike lanes on PVB (PCH to Irena)
- Do not support the recommendation from staff.
- Other options as determined by the PWSC.

Member Items & Future Agenda Topics

Adjournment