



## *City of Kingsburg*

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Mayor Michelle Roman  
Mayor Pro Tem Laura North  
Council Member Sherman Dix  
Council Member Vince Palomar  
Council Member Jewel Hurtado

City Manager Alexander J. Henderson

# **AGENDA KINGSBURG PUBLIC SAFETY COMMITTEE**

**The Historic Kingsburg Southern Pacific Railroad Depot, 1465 California St.,  
Kingsburg, CA 93631 (559) 897-5821 [www.cityofkingsburg-ca.gov](http://www.cityofkingsburg-ca.gov)**

**Tuesday, December 10, 2019 at 4pm**

- I. Call to order by Chair: (Chairman Palomar)**
- II. Public Comments**
- III. Approve minutes from the November 13, 2019 Public Safety Committee meeting as prepared by City Clerk Abigail Palsgaard**
- IV. Locations of Lighted Beacons Discussion**
- V. Other Business**
- VI. Adjourn to next meeting, as decided by the Committee**

**KINGSBURG PUBLIC SAFETY COMMITTEE**  
**Regular Meeting Minutes**  
**November 13, 2019**

**Call to order by Chair:** Chairman Palomar called the meeting to order at 4:05pm.

**Members present:** Shawn Marshall, Lennis Scheline, Fred Ray, Brandon Pursell Jr., and Chairman Vince Palomar.

**Member absent:** Jim McGuire, Thom Sembritzki and Wayne Osborne.

**Staff present:** City Clerk Abigail Palsgaard and Project Engineer Will Washburn.

**Public Comments:** None.

**Approve minutes:** Member Pursell Jr., made a motion to approve minutes from the October 23, 2019 Public Safety Committee meeting as prepared by City Clerk Abigail Palsgaard. The motion was seconded by Member Scheline and passed by unanimous voice vote of those members present.

**Locations of Lighted Beacons Discussion**

The Committee discussed, along with Project Engineer Will Washburn, the additional costs and the regulations regarding lighted crosswalk signs. The Committee reviewed the map and decided on 5 locations to request more information. Those locations are 18<sup>th</sup> and Tulare; Lindquist and Avenue D; 10<sup>th</sup> and Mehlert; 14<sup>th</sup> and Sierra; and 12<sup>th</sup> and Stroud. Peters Engineering will provide estimated cost and engineering notes on the 5 locations and at the next meeting the Committee will prioritize and send to the Traffic Committee.

**Other Business**

The Committee discussed the repainting of the crosswalks around schools. The location at Kern & 6<sup>th</sup> will be added to the list. The negative effects of wet weather was discussed in regards to striping.

**Adjourn:** The meeting was adjourned at 4:58pm to next meeting on December 10, 2019.

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## STAFF REPORT

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**TO:** PUBLIC SAFETY COMMITTEE  
**FROM:** DAVID PETERS, CITY ENGINEER  
**SUBJECT:** RRFB PROJECTS  
**DATE:** DECEMBER 9, 2019

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### BACKGROUND

The Public Safety Committee has requested that the City Engineer evaluate five potential locations for placement of rectangular rapid flashing beacons (RRFBs) to enhance pedestrian safety at intersections near or on pedestrian routes to schools. The intersections evaluated are:

- 18<sup>th</sup> Avenue / Tulare Street
- 10<sup>th</sup> Avenue / Mehlert Street
- 12<sup>th</sup> Avenue / Stroud Avenue
- Avenue D / Lindquist Street
- Sierra Street (SR 201) / 14<sup>th</sup> Avenue

### DISCUSSION:

Traffic Control Devices are regulated by the California Manual on Uniform Traffic Control Devices (CMUTCD). Currently, RRFBs are not included in the CMUTCD as an approved traffic control device. However, RRFBs have received Interim Approval (IA) for installation in California. The IA states the following in regards to the allowable uses of these devices:

- a) A RRFB shall only be installed to function as a pedestrian-actuated conspicuity enhancement.
- b) A RRFB shall only be used to supplement a post-mounted W11-2 (Pedestrian), S1-1 (School), or W11-15 (Trail) crossing warning sign with a diagonal downward arrow (W16-7P) plaque, or an overhead-mounted W11-2, S1-1, or W11-15 crossing warning sign, located at or immediately adjacent to an uncontrolled marked crosswalk.
- c) Except for crosswalks across the approach to or egress from a roundabout, an RRFB shall not be used for crosswalks across approaches controlled by

YIELD signs, STOP signs, traffic control signals, or pedestrian hybrid beacons.

- d) In the event sight distance approaching the crosswalk at which RRFBs are used is less than deemed necessary by the engineer, an additional RRFB may be installed on that approach in advance of the crosswalk, as a pedestrian-actuated conspicuity enhancement to supplement a W11-2 (Pedestrian), S 1-1 (School), or W11-15 (Trail) crossing warning sign with an AHEAD (W16-9P) or distance (W16-2P or W16-2aP) plaque. If an additional RRFB is installed on the approach in advance of the crosswalk, it shall be supplemental to and not a replacement for the RRFBs at the crosswalk itself.

Since existing warrants for RRFBs have not been developed in the CMUTCD as of yet, the appropriate warrants that should be considered would be those of the in-roadway warning lights as RRFBs serve the same function and are intended to be a substitute for in-roadway warning lights. The in-roadway warning light warrants are as follows:

- At least 40 pedestrians regularly use the crossing during each of any two hours (not necessarily consecutive) during a 24-hour period.
- The vehicular volume through the crossing exceeds 200 vehicles per hour in urban areas or 140 vehicles per hour in rural areas during peak-hour pedestrian usage.
- The critical approach speed (85th percentile) is 45 mph or less.
- In-Roadway Warning Lights are visible to drivers at the minimum stopping sight distance for the posted speed limit.

Traffic and pedestrian counts and speed studies would be required to verify which intersections meet the warrants listed above. If all of these warrants are met, and if sight distance is deemed to be insufficient, the RRFBs may be installed at the intersections identified by the Committee.

Preliminary estimates of costs for all five intersections were developed and are summarized as follows:

Preliminary Estimate of Construction Costs

Intersection	Cost
18 <sup>th</sup> / Tulare	\$67,009
10 <sup>th</sup> / Mehlert	\$86,345
Stroud / 12 <sup>th</sup>	\$68,343
Avenue D / Lindquist	\$97,013
Sierra (SR 201) / 14 <sup>th</sup>	\$103,604

Prior to installation, design plans and specifications will need to be prepared and the project will need to be advertised for public bid. Additionally, the Sierra Street / 14<sup>th</sup> intersection will require a Caltrans encroachment permit prior to advertising and construction of the improvements.

Attachment: Preliminary Estimates of Construction Costs

Preliminary Estimate of Construction Costs  
18th/Tulare RRFB Crosswalk Improvements

No.	Item Description	Quantity	Unit	Unit Cost	Cost
1	Mobilization	1	LS	\$4,000	\$4,000
2	Traffic Control System	1	LS	\$2,000	\$2,000
3	Dust Control	1	LS	\$250	\$250
4	Clearing and Grubbing	1	LS	\$3,000	\$3,000
5	Concrete Curb Ramp	2	EA	\$5,500	\$11,000
6	Solar Flashing Beacon System (set of two)	1	LS	\$25,000	\$25,000
7	Solar Warning Beacon System (set of two)	0	LS	\$20,000	\$0
8	Signage and Pavement Striping	1	EA	\$3,000	\$3,000
9	Misc. Facilities and Operations	1	LS	\$2,000	\$2,000
<b>Subtotal of Construction Items =</b>					<b>\$50,250</b>
<b>Design (12%) =</b>					<b>\$6,030</b>
<b>Bidding, Award &amp; Construction Admin (15%) =</b>					<b>\$7,538</b>
<b>Contingency (5%) =</b>					<b>\$3,191</b>
<b>GRAND TOTAL =</b>					<b>\$67,009</b>

Preliminary Estimate of Construction Costs  
10th /Mehlert RRFB Crosswalk Improvements

No.	Item Description	Quantity	Unit	Unit Cost	Cost
1	Mobilization	1	LS	\$4,000	\$4,000
2	Traffic Control System	1	LS	\$2,000	\$2,000
3	Dust Control	1	LS	\$250	\$250
4	Clearing and Grubbing	1	LS	\$3,000	\$3,000
5	Concrete Curb Ramp	1	EA	\$5,500	\$5,500
6	Solar Flashing Beacon System (set of two)	1	LS	\$25,000	\$25,000
7	Solar Warning Beacon System (set of two)	1	LS	\$20,000	\$20,000
8	Signage and Pavement Striping	1	EA	\$3,000	\$3,000
9	Misc. Facilities and Operations	1	LS	\$2,000	\$2,000
<b>Subtotal of Construction Items =</b>					<b>\$64,750</b>
<b>Design (12%) =</b>					<b>\$7,770</b>
<b>Bidding, Award &amp; Construction Admin (15%) =</b>					<b>\$9,713</b>
<b>Contingency (5%) =</b>					<b>\$4,112</b>
<b>GRAND TOTAL =</b>					<b>\$86,345</b>

Preliminary Estimate of Construction Costs  
 Stroud / 12th RRFB Crosswalk Improvements

No.	Item Description	Quantity	Unit	Unit Cost	Cost
1	Mobilization	1	LS	\$4,000	\$4,000
2	Traffic Control System	1	LS	\$2,000	\$2,000
3	Dust Control	1	LS	\$250	\$250
4	Clearing and Grubbing	1	LS	\$4,000	\$4,000
5	Concrete Curb Ramp	2	EA	\$5,500	\$11,000
6	Solar Flashing Beacon System (set of two)	1	LS	\$25,000	\$25,000
7	Solar Warning Beacon System (set of two)	0	LS	\$20,000	\$0
8	Signage and Pavement Striping	1	EA	\$3,000	\$3,000
9	Misc. Facilities and Operations	1	LS	\$2,000	\$2,000

**Subtotal of Construction Items = \$51,250**

**Design (12%) = \$6,150**

**Bidding, Award & Construction Admin (15%) = \$7,688**

**Contingency (5%) = \$3,255**

**GRAND TOTAL = \$68,343**



Preliminary Estimate of Construction Costs  
Ave D / Lindquist RRFB Crosswalk Improvements

No.	Item Description	Quantity	Unit	Unit Cost	Cost
1	Mobilization	1	LS	\$4,000	\$4,000
2	Traffic Control System	1	LS	\$2,000	\$2,000
3	Dust Control	1	LS	\$250	\$250
4	Clearing and Grubbing	1	LS	\$4,000	\$4,000
5	Concrete Curb Ramp	2	EA	\$5,500	\$11,000
6	Solar Flashing Beacon System (set of two)	1	LS	\$25,000	\$25,000
7	Solar Warning Beacon System (set of two)	1	LS	\$20,000	\$20,000
8	Signage and Pavement Striping	1	EA	\$4,500	\$4,500
9	Misc. Facilities and Operations	1	LS	\$2,000	\$2,000
<b>Subtotal of Construction Items =</b>					<b>\$72,750</b>
<b>Design (12%) =</b>					<b>\$8,730</b>
<b>Bidding, Award &amp; Construction Admin (15%) =</b>					<b>\$10,913</b>
<b>Contingency (5%) =</b>					<b>\$4,620</b>
<b>GRAND TOTAL =</b>					<b>\$97,013</b>

Preliminary Estimate of Construction Costs  
Sierra Street / 14th Avenue RRFB Crosswalk Improvements

No.	Item Description	Quantity	Unit	Unit Cost	Cost
1	Mobilization	1	LS	\$8,000	\$8,000
2	Traffic Control System	1	LS	\$7,500	\$7,500
3	Dust Control	1	LS	\$250	\$250
4	Clearing and Grubbing	1	LS	\$1,000	\$1,000
5	Concrete Curb Ramp	0	EA	\$5,500	\$0
6	Solar Flashing Beacon System (set of two)	1	LS	\$25,000	\$25,000
7	Solar Warning Beacon System (set of two)	1	LS	\$20,000	\$20,000
8	Signage and Pavement Striping	1	EA	\$4,500	\$4,500
9	Misc. Facilities and Operations	1	LS	\$2,000	\$2,000

**Subtotal of Construction Items = \$68,250**

**Design (20%) = \$13,650**

**Bidding, Award & Construction Admin (18%) = \$12,285**

**Contingency (10%) = \$9,419**

**GRAND TOTAL = \$103,604**