

# HCAOG

## 2022 REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM (RTIP) – PROJECT CANDIDATE FORM

RTIP programming background:

If the project is on a State Highway, a Project Study Report (PSR) is required. If not, a PSR equivalent is required. The PSR equivalent at a minimum must be adequate to define and justify the project scope, cost and schedule. The PSR or PSR equivalent must be submitted with this programming request.

Applicant Agency: **City of Arcata**

Project Title: **K Street/Alliance Road Rehabilitation Project**

**Project Purpose:** What transportation deficiency will this project address (safety, congestion, operations, plan implementation, etc.)? If a safety project, will the project reduce fatalities or number and severity of injuries?

The purpose of this project is the rehabilitate and increase safety along K Street/Alliance Road, a regionally significant roadway within Arcata. Currently, the road experiences motorists travelling at high speeds and provides limited pedestrian/bicyclist facilities. The road condition varies throughout the project area but a large amount scored “poor” for its Pavement Condition Index (PCI) (NCE, 2017).

Not proceeding with any improvements will result in continued deterioration of the roadway surface along this street segment. Important access routes to the schools, the Post Office, and downtown areas would be negatively affected.

Project Location (community name, corridor, street name, etc.): **The project will take place in Arcata, CA along K Street/Alliance Road between Samoa Boulevard and Foster Avenue. The road is named K Street South of 13<sup>th</sup> Street and Alliance Road north of 13<sup>th</sup> Street.**

Project Description: **The proposed project plans on overlaying K Street/Alliance Road using a 0.2' asphalt paving and edge grind. Once the overlay has been completed, the road will be restriped with existing markings and bike lanes.**

Is the project in the 2017 RTP? **Yes. K Street/Alliance Road is considered regionally significant roadway within the Humboldt's Regional Transportation Plan, *Variety in Rural Options of Mobility (VROOM)*.**

Are you requesting State only funding? **Yes, If available State or CRRSAA funding**

If a rehabilitation project, is it located on a federal-aid eligible road (higher than a local or minor collector road)? **Yes. K Street/Alliance Road has a functional class of “Other Principal Arterial”.**

Provide Project Component funding needs:

Project Component	Cost Estimate	STIP Funding Request	Other fund contribution	Allocation Schedule
Environmental Studies & Permits	\$	\$	\$	Jan-Apr 2022
Plans, Specifications & Estimates	\$60,000	\$	\$60,000	Jan-Jul 2022
Right of Way	\$	\$	\$	N/A
Construction	\$664,000	\$550,000	\$114,000	Aug 2022 – Dec 2023
<b>Total</b>	\$724,000	\$550,000	\$174,000	

Please describe any other relevant information about this project you feel will be useful in project selection. Additional attachments (i.e. maps, photos) may also be included with the submittal.

**Please see attached PSR Equivalent and Location Map.**

## PROJECT STUDY REPORT EQUIVALENT (PSRe) K Street/Alliance Road Rehabilitation Project

**Project Limits:** The limits of the project are within Arcata's right of way. The project will take place on K Street between Samoa Boulevard and Foster Avenue.

### 1 Need and Purpose

The purpose of this PSRe is to show the need for the improvements along K Street/Alliance Road. K Street/Alliance Road is a principal arterial road located west of Downtown Arcata. The Street is named K Street south of the 13<sup>th</sup> Street intersection and Alliance Road north of the 13<sup>th</sup> Street intersection. This road connects Samoa Boulevard and Downtown Arcata to northern Arcata neighborhoods including Westwood and Valley West. Due to being a major regional road, it has a high traffic volume of both motorists and cyclists and requires maintenance to provide safe facilities. Currently, the road experiences motorists travelling at high speeds and provides limited pedestrian/bicyclist facilities. The road condition varies throughout the project area but a large amount scored "poor" for its Pavement Condition Index (PCI) (NCE, 2017).

Not proceeding with any improvements will result in continued deterioration of the roadway surface along this street segment.

### 2 Current Conditions

The project area is located west of the downtown area. The road south of 11<sup>th</sup> Street is a shared roadway and has shared roadway markings throughout the road. North of 11<sup>th</sup> Street, Class II bike lanes are marked in white in both directions. A portion of the project is adjacent to Arcata High School and has yellow pavement markers in forms of cross-sections and School Crossing markers.

### 3 Project Alternatives

Two alternatives were considered to improve K Street/Alliance Road. All the following alternatives are within the right-of-way (ROW) of the City of Arcata.

#### 3.1 Alternative One: Complete Overlay

Alternative One proposes overlaying all of K Street/Alliance Road between Samoa Boulevard and Foster Avenue. The overlay would include a 0.2' edge-grind along each side of the road. Once overlaying is complete, striping and pavement markers will be replaced. New striping will include high-visibility green bikes lanes north of 11<sup>th</sup> Street to improve cyclist visibility and safety.

Table 3.1 provides a preliminary cost estimate for the project. The estimate includes construction and planning.

**Table 3.1** Preliminary project cost for Alternative One.

Task	Cost
Plans, Specifications, & Estimates (10% of Construction Costs)	\$ 60,000.00
Construction Capitol Cost	\$664,000.00
<b>SUBTOTAL</b>	<b>\$ 724,000.00</b>

### 3.2 Alternative Two: Partial Overlay

Alternative Two is similar to Alternative One but proposes overlaying only a portion of K Street/Alliance Road. Alternative Two proposes only overlaying the road between Samoa Boulevard and 11<sup>th</sup> Street. The overlay would include a 0.2' edge-grind along each side of the road.

Alternative Two still proposes replacing striping along the dull project area (between Samoa Boulevard and Foster Avenue). New striping will include high-visibility green bikes lanes north of 11<sup>th</sup> Street to improve cyclist visibility and safety. This alternative will require striping removal north of 11<sup>th</sup> street to place the high-visibility striping.

Table 3.2 provides a preliminary cost estimate for the project. The estimate includes construction and planning.

**Table 3.2** Preliminary project cost for Alternative Two.

<b>Task</b>	<b>Cost</b>
Plans, Specifications, & Estimates (10% of Construction Costs)	\$ 31,310.00
Construction Capitol Cost	\$ 313,100.00
<b>SUBTOTAL</b>	<b>\$ 344,410.00</b>

### 3.3 Alternative Analysis

Both Alternatives will increase the safety of cyclists by adding the high-visibility green striping along the bike lanes. Because Alternative Two only resurfaces a portion of K Street/Alliance Road, the remainder of K Street/Alliance Road will require resurfacing sooner than the rest of the road. This will result in the new striping having to be redone and additional cost expenditure. Because of this, Alternative One is the preferred project.

## 4 **Environmental Status**

An initial environmental study will be prepared once the preliminary engineering design is finalized. Because the project will not include any new construction, it will receive a Categorical exemption.

## 5 **Additional Considerations**

The following section describes additional considerations that need to be considered when planning for this project.

### 5.1 System Planning

The project is consistent with the Transportation Element of the City of Arcata General Plan. This includes adding striped bicycle lanes to arterial roads and increasing pedestrian facilities.

### 5.2 Construction Considerations

No prolonged closures are anticipated during construction and construction flagging and traffic control will be used. Certain phases may require vehicles and bicyclists to share the traffic lane.

### 5.3 Hazardous and Waste Material

There are no expected hazardous materials to be encountered for any aspect of the project. AC grinding and aggregate base will be reused for the road base and will not require disposal of the current material. If removal is necessary, it will be removed from the project site and stockpiled at City facilities for future use.

### 5.4 Additional Agencies

Arcata will coordinate with local emergency responders, law enforcement and school districts during construction to minimize congestion and plan for alternative routes.

## 6 **Potential Funding Sources**

The City is applying for partial state funding through the State Transportation Improvement Program (STIP). State funds will fund the construction portion of the project. Additional funds, including design engineering and will be provided by local funds from Measure G.

## 7 **Tentative Schedule**

Below is a tentative schedule of project milestones. The project will begin at the beginning of 2021 and take three years to complete.

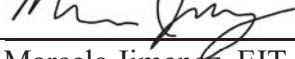
Start of Environmental Study	January 2022
Draft Environmental Study	February 2022
Final Environmental Study	April 2022
Begin Design Engineering	January 2022
Completion of Plans, Specifications, and Estimates	July 2022
Ready to Advertise	August 2022
Start Construction (Contract Award)	Early 2023
Project Completion	December 2023

## 8 **Project Support**

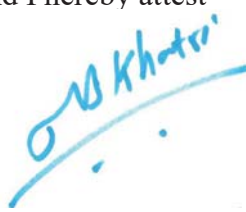
Survey, design, and preparation of final plans, specifications & estimates will be performed by City Engineering staff or contracted. City forces will perform environmental review, preliminary design and public meetings.

## 9 **Report Preparation**

This Project Report (PSR) has been prepared by the Arcata Engineering Department, and I hereby attest to its technical content.

Prepared By:   
 Marcela Jimenez, EIT  
 Engineering Aide

Date: 9/15/2021

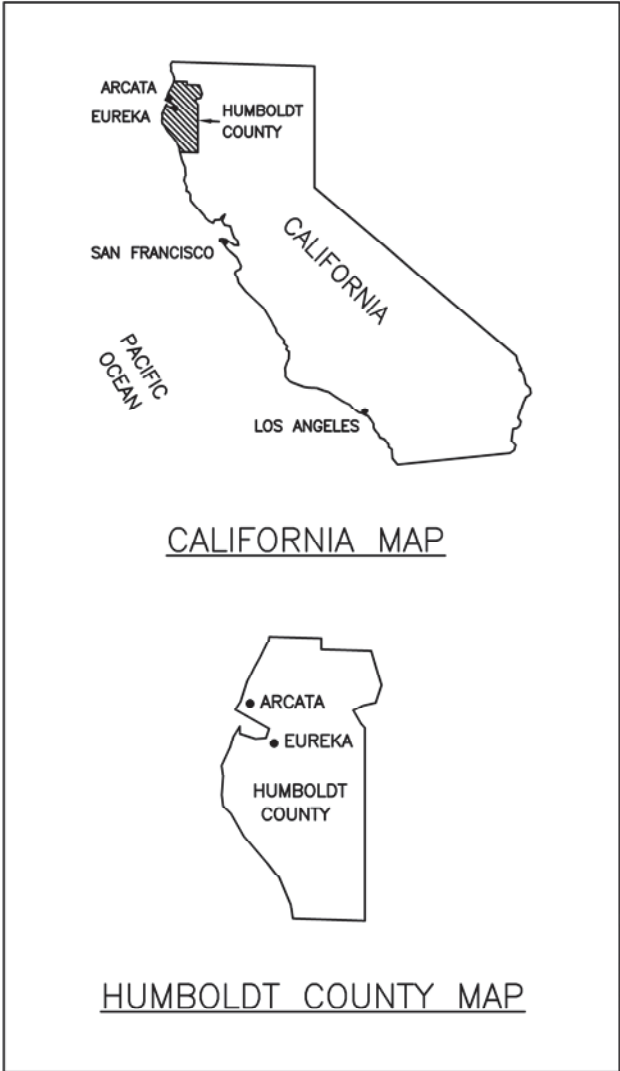
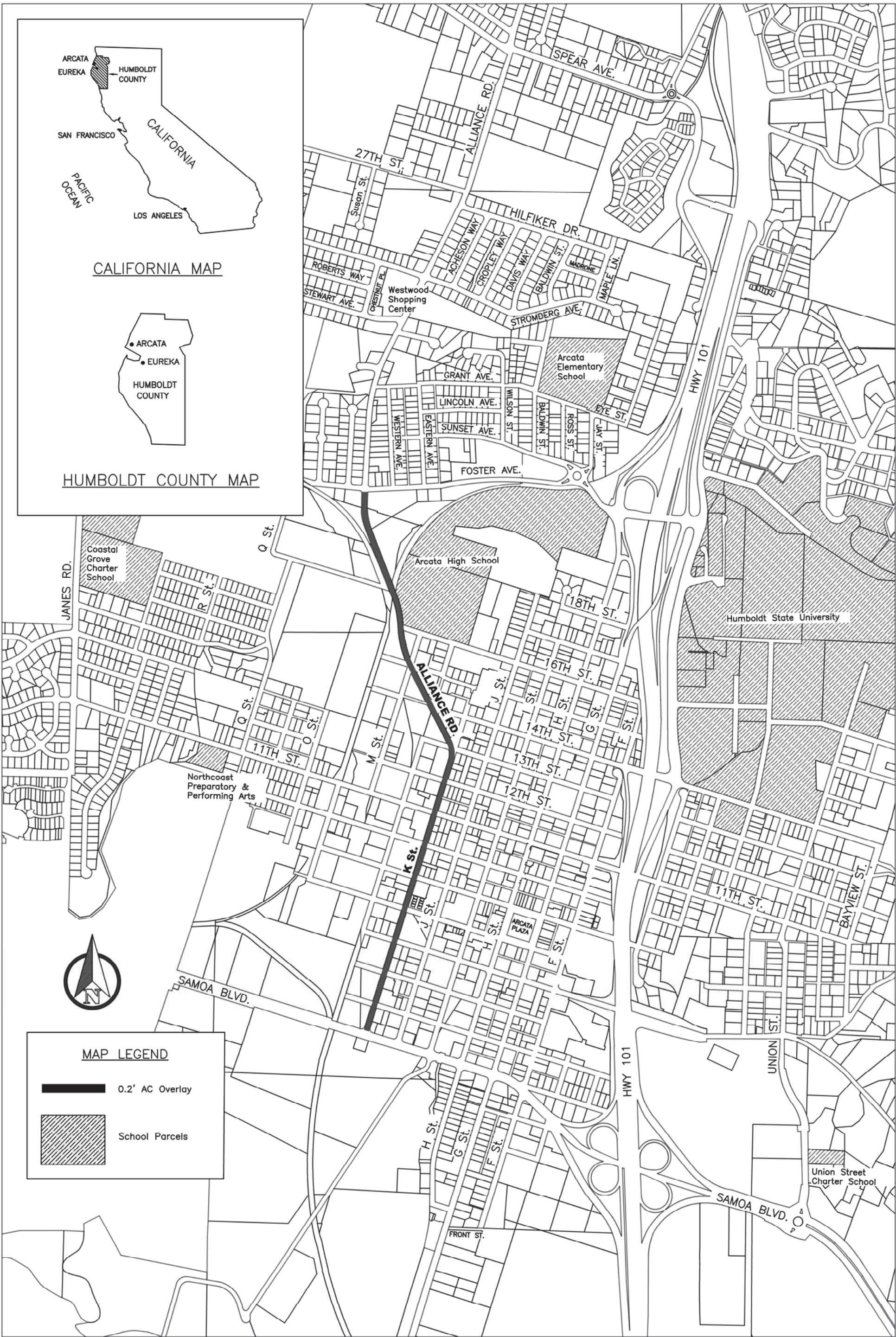
Reviewed By:   
 Netra Khatri, PE  
 City Engineer

Date: 9/15/2021

## List of Attachments

Location Map





**MAP LEGEND**

0.2' AC Overlay

School Parcels



CITY OF ARCATA  
PROJECT LOCATION MAP

K ST. & ALLIANCE RD.  
SAMOA BLVD. TO FOSTER AVE.

SCALE: 1"= 800'      DATE: 9/13/2021

FILE: Arcata STIP Map\_2021\_K St.dwg