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.

programming request.
PSR equivalent is attached
Applicant Agency:
County of Humboldt

Project Title:

Surface Rehabilitation on Redwood Drive (6B105).

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?

Redwood Drive in Garberville is subject to premature failure due to the unstable subgrade, high ADT, and high truck use.

Redwood Drive has the highest average daily traffic load in Southern Humboldt. Current counts in the reach addressed by this project study report are approximately 9,800 vehicles per day.

An average of 5 accidents occurs annually on this stretch of road, making it one of the higher accident zones in the County road system.

The County has completed improvements on other nearby sections of Redwood Drive including a bridge project over Bear Gulch which replaced a narrow, functionally obsolete concrete arch bridge with a wider bridge and capable of handling the growth of motorist, pedestrian and bicyclist usage. The Garberville portion of Redwood Drive is characterized by pedestrian and vehicular congestion, deteriorating roadway surface, insufficient pedestrian facilities, higher speeds due to on/off ramps, and a budding business hub for much of the greater southern Humboldt area.

Project Location (community name, corridor, street name, etc.):

Redwood Drive (6B105) from the southerly terminus (Post Mile 0.00) at SH101 to the SH101 on-ramp at the north end of Garberville (Post Mile 0.50).

Project Description:

This project consists of the preliminary engineering, environmental documentation, right of way, plans, specifications, and estimate, and construction of pavement repair on Redwood Drive from the southerly terminus (Post Mile 0.00) at SH101 to the SH101 on-ramp at the north end of Garberville (Post Mile 0.50). This Project Study Report (PSR) establishes the schedule and budget for the preliminary design, project development, environmental documentation, and right of way, and construction needed to rehabilitate the asphalt surfacing of Redwood Drive in the growing community of Garberville.

Is the project in the 2017 RTP?

Yes.

Are you requesting State only funding?

Yes.

If a rehabilitation project, is it located on a federal-aid eligible road (higher than a local or minor collector road? Link to Caltrans maps: http://www.dot.ca.gov/hg/tsip/hseb/crs maps

Yes.

Provide Project Component funding needs:

Project Component	Cost Estimate	STIP Funding Request	Other fund contribution	Allocation Schedule
Environmental Studies & Permits	\$5,000	\$5,000	\$	04/01/2024
Plans, Specifications & Estimates	\$28,000	\$28,000	\$	09/01/2024
Right of Way	\$5,000	\$5,000	\$	10/01/2024
Construction & CM	\$803,000	\$803,000	\$	04/01/2025
Total	\$841,000	\$841,000	\$	

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.

Project Study Report (PSR)

To

Request Programming for Capital Support Project Approval, Environmental Document, Right of Way, PS&E, and Construction in the 2021 STIP

On Route: <u>Redwood Drive (6B105)</u> Between <u>PM 0.00 to 0.50 (Garberville)</u>

APPROVAL RECOMMENDED:

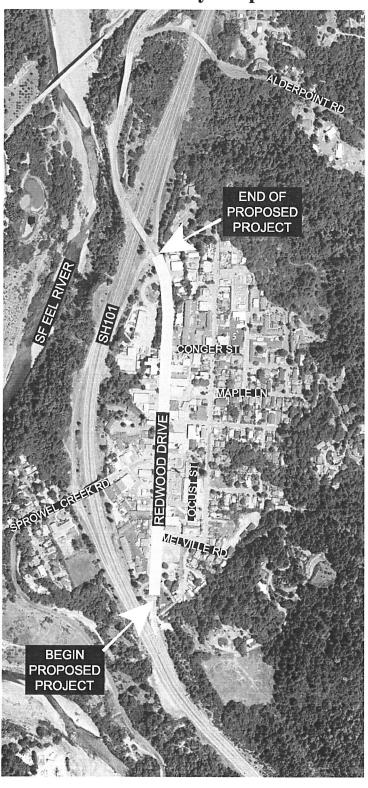
Project Manager

APPROVED:

Public Works Director

Data





This project study report-project development support has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Projection of Stephens

/15/2021

Date



1. INTRODUCTION

This project consists of the preliminary engineering, environmental documentation, right of way, plans, specifications, and estimate, and construction of pavement repair on Redwood Drive from the southerly terminus (Post Mile 0.00) at SH101 to the SH101 on-ramp at the north end of Garberville (Post Mile 0.50). This Project Study Report (PSR) establishes the schedule and budget for the preliminary design, project development, and environmental studies needed to address the growing community of Garberville.

This PSR seeks state funding through the RTIP program.

2. BACKGROUND

Redwood Drive is the old Highway 101 corridor. Highway usage was discontinued in the 1960's when the freeway alignment was constructed on an alternate alignment. The community of Garberville has grown, and the use of Redwood Drive has become congested with all modes of users. The Complete Streets Act requires that California cities and counties adopt transportation plans that accommodate all users of roadways including pedestrians, public transit, bicyclists, the elderly, motorists, and the disabled. The aim of the Garberville project is to repair the roadway which will complement other proposed projects such as the complete streets and ADA long term plans.

3. PURPOSE AND NEED

Redwood Drive in Garberville is subject oo premature failure due to the unstable subgrade, high ADT, and the truck use.

Redwood Drive has the highest average daily traffic load in Southern Humboldt. Current counts in the reach addressed by this project study report are approximately 9,800 vehicles per day.

An average of 5 accidents occurs annually on this stretch of road, making it one of the higher accident zones in the County road system.

The County has completed improvements on all other sections of Redwood Drive including a bridge project over Bear Gulch which replaced a narrow, functionally obsolete concrete arch bridge with a wider bridge and capable of handling the growth of motorist, pedestrian and bicyclist usage. The Garberville portion of Redwood Drive is characterized by pedestrian and vehicular congestion, deteriorating roadway surface, insufficient pedestrian facilities, higher speeds due to on/off ramps, and a budding business hub for much of the greater southern Humboldt area.

4. TRAFFIC ENGINEERING PERFORMANCE ASSESSMENT

Collision Analysis:

Collision summary – SWITRS (Attachment 3)

ADT of 9850 on September 9th, 2011, at Post Mile 0.48 (Attachment 4).

Peak Period (Hourly) of 907 Veh/Hour at 15:01-16:00, September 9th, 2011, at Post Mile 0.48 (Attachment 4)

5. DEFICIENCIES

Lane striping is worn out and does not meet current standards. Northbound and southbound travel lanes have several areas with failed surfacing.

6. CORRIDOR AND SYSTEM COORDINATION

Coordination with road users, commuters and emergency vehicles is necessary. Public notifications through various medias, including radio, local newspapers, county website, and changeable message signs will be implemented once the project is advertised and awarded for construction.

7. ALTERNATIVES

The project development phase will consider the complete streets objectives and develop alternatives, but the main purpose will be to provide much needed repairs to the asphalt surfacing of the travelled lanes.

8. RIGHT-OF-WAY

Permanent and temporary easements will not be required for staging or stockpiling. All work will be within existing right of way.

Utilities such as water valves, gas valves, and communication vaults do not need to be adjusted to final grade since this project does not change the grade of the roadway.

9. STAKEHOLDER INVOLVEMENT

GCSD is the owner of the water system and sewer system that runs within the county right of way with several valves and other related facilities. PG&E has underground gas system with valves and other underground facilities. Communication corridor, companies such as SuddenLink and AT&T have underground and above ground fiber optics. Public road is used by commuters and emergency vehicles. County DPW roadway maintenance.

10. ENVIRONMENTAL COMPLIANCE

The proposed project is in urbanized area so impacts to the environment will be limited. The proposed project does not increase the motorist capacity of the roadway.

Environmental documents will be prepared in compliance with the California Environmental Quality Act (CEQA). Preliminary indications are that this project would qualify for Categorical Exemption, but contingencies are in place to prepare

Initial Study documentation as necessary. Public meetings and public input will be recorded and included in environmental documentation.

11. FUNDING

This project seeks state only funding. The following is a summary of the estimate of project costs:

Environmental Studies	\$ 5,000
Design (PS&E) Phase	\$ 28,000
Right of Way	\$ 5,000
Construction Phase	\$ 803,000
Requested Allocation Total	\$ 841,000

12. DELIVERY SCHEDULE

This proposal seeks sufficient **state-only** funds to cover the project costs. The following is a tentative milestone schedule for the completion of the design phase project:

Project Study Report Approved			12/31/21
Environmental Document	Document Type	CE	04/01/24
Design (PS&E) Complete	•		09/01/24
Right of Way Clearance			10/01/24
Construction			04/01/25

13. RISKS

Low Risk since the project complies with current standards.

14. EXTERNAL AGENCY COORDINATION

California Department of Transportation

15. PROJECT REVIEWS

Maintenance	Freshwater PW	Date	
Project Manager	Engineering PW	Date	
Constructability Review	Construction PW	Date	

16. PROJECT PERSONNEL

Agency: Humboldt County Department of Public Works

Contact Person: Tony Seghetti
Phone No.: (707) 445-7377
Address: 1106 Second Street

Eureka, CA 95501

17. ATTACHMENTS (NUMBER OF PAGES)

01-Humboldt-0-CR Redwood Drive (6B105) 0.00-0.50 September 2021

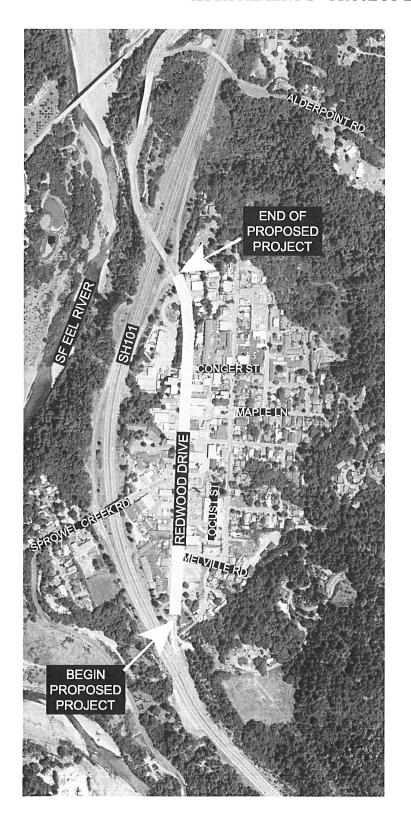
Project Location Map (1) Cost Estimate (1) SWITRS Collision Mapping (2) Traffic Counts (1) Attachment 1

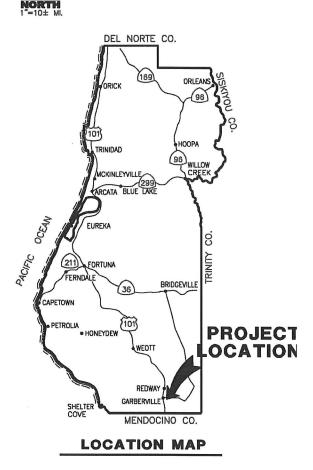
Attachment 2

Attachment 3

Attachment 4

ATTACHMENT 1 PROJECT LOCATION MAP

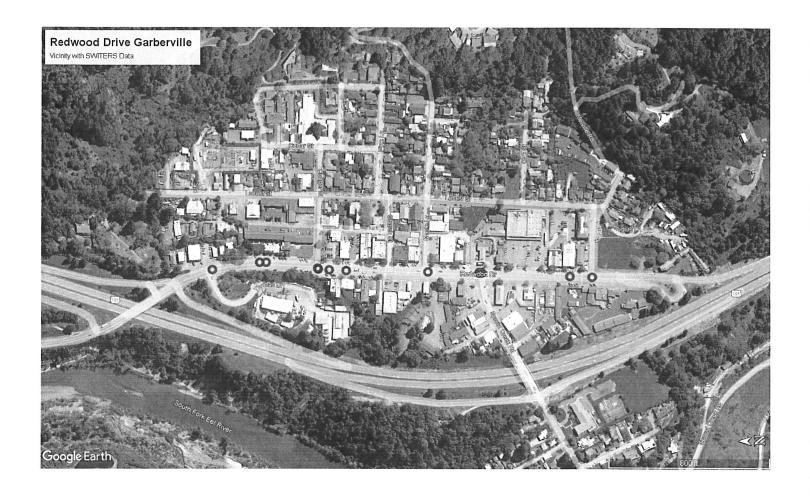




ATTACHMENT 2 COST ESTIMATE

	HOIM		DLDT COUNTY ~~ DEPARTME 2021 PSR PROJECT ESTIMATE OF COS		r PUBI	L10	S WOF	ΚK	.5
Project No. Description: Contract No.			IP PSR 2021 dwood Drive (6B105) - Garberville		Date: By: Check:	JA			
ITEM NO.	ITEM CODE	F/P	ITEM DESCRIPTION	UNIT PAY	QUANTITY		UNIT PRICE		TOTAL
1	120090		CONSTRUCTION AREA SIGNS	LS	1	\$	10,000.00	\$	10,000
2	120100		TRAFFIC CONTROL SYSTEM	LS	1	\$	40,000.00	\$	40,000
3	130100		JOB SITE MANAGEMENT	LS	1	\$	5,000.00	\$	5,000
4	130200		PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1	\$	2,000.00	\$	2,000
5	390132		HOT MIX ASPHALT (TYPE A)	TON	1,320	\$	250.00	\$	330,000
6	398200		COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	7,800	\$	40.00	\$	312,000
7	840501		THERMOPLASTIC TRAFFIC STRIPE	LF	2,500	\$	5.00	\$	12,500
8	840515		THERMOPLASTIC PAVEMENT MARKING	SQFT	990	\$	15.00	\$	14,850
9	810230		PAVEMENT MARKER (RETROREFLECTIVE)	EA	5	\$	100.00	\$	500
10	999990	<u></u>	MOBILIZATION	LS	1	\$	38,150.00	\$	38,150
						Cor	nstruction	\$	765,000
						PE	(5%)	\$	38,000
						CM	1(5%)	\$	38,000
						Tot	al	\$	841,000

ATTACHMENT 3 SWITRS COLLISION MAPPING



COLLISION DATA

COLLISION_DATE	PRIMARY_RD	SECONDARY_RD	DISTANCE	COLLISION_SEVERITY	NUMBER_KILLED	NUMBER_INJURED	TYPE_OF_COLLISION	LATITUDE	LONGITUDE
4/3/2009	REDWOOD DR	CONGER ST	145	2	0	1	G	40.1011	-123.79495
11/18/2009	REDWOOD DR	CONGER ST	0	3	0	1	G		
3/31/2012	REDWOOD DR	CONGER ST	6	3	0	1	G		
3/30/2012	REDWOOD DR	MELVILLE RD	8	3	0	1	F		
9/10/2012	REDWOOD DR	BEAR CREEK RD	272	3	0	1	С		
3/11/2013	REDWOOD DR	BEAR CREEK RD	228	3	0	1	С	40.10234	-123.79471
2/1/2013	REDWOOD DR	CONGER ST	60	4	0	1	С		
10/21/2014	REDWOOD DR	BEAR CREEK RD	0	3	0	1	G	40.10324	-123.7949
1/18/2017	REDWOOD DR	MAPLE LANE	6	3	0	1	G	40.10003	-123.79505
4/30/2017	REDWOOD DR	SPROWEL CREEK ROAD	0	3	0	1	Ε	40.09922	-123.79522
10/21/2017	REDWOOD DR	SPROWEL CREEK ROAD	9	3	0	1	G	40.09931	-123.79501
10/31/2018	REDWOOD DR	MELVILLE RD	120	3	0	1	D	40.0982399	-123.7951736
6/11/2019	REDWOOD DR	SPROWEL CREEK ROAD	15	4	0	1	С	40.09952164	-123.79496

ATTACHMENT 4 TRAFFIC COUNTS

Weekly Volumes

Unit ID: HUMBOLT COUNTY

Location: Redwood dr. # 6B105 pm. 0.48

Week of 09/07/2011

erage	SB	20	8	6	9	7	14	48	128	211	296	322	359	369	356	351	356	259	228	177	143	108	63	38	25	3901	7616	11:00	359	12:00	369
Daily Average	NB	17	10	6	8	5	12	37	111	184	241	289	314	334	350	345	347	278	245	189	140	103	82	39	26	3715		11:00	314	13:00	350
3 day	SB	7	5	4	12	6	32	64	166	114	1	1	1	'	1	-	-	-	-	'	-	-	1		1	417	790	07:29	214	,	-
09/13 Tuesday	NB	4	80	7	15	5	16	67	132	109	'	1	1		1	1	·	,	1	1	'	,	•	1	1	373		07:31	187	-	-
2 lay	SB	12	5	9	4	11	18	28	143	286	358	361	400	424	391	416	408	337	317	196	157	113	61	37	33	4552	9021	11:00	400	14:07	432
09/12 Monday	NB	4	80	9	6	2	23	56	132	246	289	333	348	363	424	398	415	390	369	216	158	115	81	42	32	4469		09:52	352	13:27	439
I1 Iay	SB	09	20	16	2	4	7	29	74	98	166	219	287	291	265	254	251	228	161	190	138	114	70	43	10	2985	2588	10:52	290	12:01	291
09/11 Sunday	NB	27	18	15	4	3	6	13	63	66	132	210	208	242	222	221	236	213	157	150	144	92	69	40	16	2603		10:42	219	12:11	254
0 day	SB	27	80	18	-	3	11	44	94	155	228	300	310	307	262	257	240	273	232	190	187	119	69	41	42	3418	6775	09:43	309	12:00	305
09/10 Saturday	NB	33	23	11	10	7	12	27	88	142	208	266	267	276	281	279	227	234	225	211	174	145	124	41	46	3357		10:12	290	12:48	295
o k	SB	11	12	11	14	12	17	06	178	298	366	413	416	403	442	417	451	380	325	239	182	153	66	29	37	5033	9850	10:12	437	14:15	450
09/09 Friday	NB	12	5	12	11	41	11	09	140	255	274	339	390	403	427	414	452	433	357	282	188	133	101	99	38	4817		10:54	400	15:43	460
l8 day	SB	0	0	0	0	0	0	0	112	327	361	315	383	418	421	413	430	338	333	247	192	149	62	40	26	4284	9031	11:00	383	14:28	452
09/08 Thursday	NB	0	0	0	0	0	0	0	112	255	302	297	322	388	398	415	406	399	329	276	174	131	115	42	23	4447		10:57	358	15:32	449
7 sday	SB	-	-	-	-	1	-	1	-	1	1	1	E	1	1	1	1	0	0	0	0	0	0	0	0	0	0	-	1	-	1
09/07 Wednesday	NB	1	1	,	1	1	1	-	-	T.	1	-	1	-	ı	1	-	0	0	0	0	0	0	0	0	0		1	1	-	-
Start	2	00:00	01:00	02:00	03:00	04:00	00:50	00:90	00:20	08:00	00:60	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Lane Total	Day Total	AM Peak	AM Count	PM Peak	PM Count