

Project Study Report (PSR)

To Request Programming in the 2022 RTIP for:

- Project Approval and Environmental Document (PA&ED)
 - Plans, Specifications, and Estimate (PS&E)
 - Right-of-Way
 - Construction



Rio Dell Neighborhood Pedestrian Connectivity Improvements City of Rio Dell

APPROVED:



Kyle Knopp, Rio Dell City Manager

9/15/21

Date

This project study report 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.



9/15/2021

REGISTERED CIVIL ENGINEER

DATE



1. INTRODUCTION

The project includes pedestrian connectivity and accessibility improvements to Painter Street, Ireland Street, and Center Street, including sidewalks, driveways, curb ramps, crosswalks, signage, striping and pavement repair.

Project Limits	Painter Street – from Wildwood Ave to Ireland Street; Ireland Street – from Painter Street to Davis Street; Center Street – 550 linear feet adjacent to Rio Dell Elementary.
Funding Source	RTIP, Local Committed Funds
Type of Facility	Painter Street – Minor Collector; Ireland Street – Minor Collector; Center Street – Minor Collector
Anticipated Environmental Determination or Document	CEQA CE

2. BACKGROUND

The City of Rio Dell has undertaken a series of projects improving pedestrian travel throughout the community with a specific aim of improving connectivity with the central area of town and the school. Improved pedestrian path of travel provides increases safety for pedestrians and provides a greater incentive for people to walk and ride bikes rather than to drive, which can help reduce vehicle traffic.

Highway 101 bisects the City which is divided into a number of residential and commercial areas. Additional projects are needed to connect these areas together to provide greater access for pedestrians.

The City is currently completing the design of several additional sidewalk segments to further develop pedestrian infrastructure in the City. Additional work is needed to infill sidewalk segments, install curb ramps, and install crosswalk striping to connect neighborhoods to the school and to main areas of town and the City is proposing these necessary improvements under this RTIP application.

3. PURPOSE AND NEED

Purpose:

The primary purpose of the project is to provide new safe and accessible pedestrian routes (in accordance to the Americans with Disabilities Act of 1990) along portions of Painter Street, Ireland Street, and Center Street. Most of these locations don't have any existing sidewalks on either side of the street for pedestrians to use for walking safely along the street.

Need:

Many of the existing sidewalks, driveways and curb ramps within the project area terminate in the middle of a block which create barriers in pedestrian mobility. The proposed new accessible routes will provide direct connections to the Rio Dell Elementary, the Library, Town Hall, and Downtown. Improvements are also needed to reduce conflicts and potential safety hazards between pedestrians and vehicles by formalizing and improving access to off-street parking areas.

4. DEFICIENCIES

Painter Street connects the Highway 101 bridge to Wildwood Avenue, which is the main thoroughfare through town. There are missing sidewalk segments on Painter Street that are needed to be completed to provide adequate pedestrian travel to the existing pedestrian facilities on Wildwood. Painter Street also provides connectivity to Ireland Street.

Ireland Street is a roadway on the west side of Highway 101 connecting Painter Street to Davis Street. Like Painter Street, Davis Street includes a bridge crossing Highway 101 and is an important connection between the two sides of the City. Rio Dell Elementary School is between Center Street and Davis Street west of Ireland Street. Therefore Ireland Street is a route providing connectivity to the school from both the north and the south, and from two bridges crossing Highway 101. Ireland Street has one mid-block portion of sidewalk and the additional sidewalk segments are needed to provide complete connection to the adjacent blocks.

5. CORRIDOR AND SYSTEM COORDINATION

The City of Rio Dell completed the 2019 Safe Routes to School project in 2020, which provided increased pedestrian safety and access in the area. The items included in this application build on those previous improvements and are especially targeted towards improving pedestrian access and safety for the neighborhoods surrounding the Rio Dell Elementary School.

6. ALTERNATIVES

No alternative projects or improvements were identified that fulfil the project's primary purpose of providing new safe and accessible pedestrian routes in the central neighborhoods of Rio Dell where no routes currently exist.

7. ENVIRONMENTAL COMPLIANCE

The Project meets the definition of a "project" under Section 15378 of the California Environmental Quality Act of 1970, as amended (CEQA). As the "project sponsor," the City of Rio Dell would be the CEQA Lead Agency

This project includes the construction and reconstruction of sidewalks, curb ramps, driveways, pavement reconstruction and other improvements primarily within the existing public right-of-way. Minor encroachments onto private property are anticipated for conforms. It is anticipated that the project will qualify for a CEQA Notice of Exemption (NOE) and that no federal funding will be used and therefore NEPA clearance will not be required (not applicable).

8. FUNDING AND PROGRAMMING

Funding:

The project will be funded by a combination of funding sources including the HCAOG RTIP and local funds committed by the City of Rio Dell.

Programming:

Fund Source	Fiscal Year Estimate								
Total	Prior	22/23	23/24	24/25	25/26	26/27	27/28+	Future	Total
Component	In thousands of dollars (\$1,000)								
PA&ED Support		46							46
PS&E Support			53						53
Right-of-Way			30						30
Construction				819					819
Total		46	83	819					948

Fund Source	Fiscal Year Estimate								
HCAOG RTIP	Prior	22/23	23/24	24/25	25/26	26/27	27/28+	Future	Total
Component	In thousands of dollars (\$1,000)								
PA&ED Support		46							46
PS&E Support			53						53
Right-of-Way			30						30
Construction				778					778
Total		46	83	778					907

Fund Source	Fiscal Year Estimate								
Local Committed Funds – City of Rio Dell	Prior	22/23	23/24	24/25	25/26	26/27	27/28+	Future	Total
Component	In thousands of dollars (\$1,000)								
PA&ED Support									
PS&E Support									
Right-of-Way									
Construction				41					41
Total				41					41

9. DELIVERY SCHEDULE

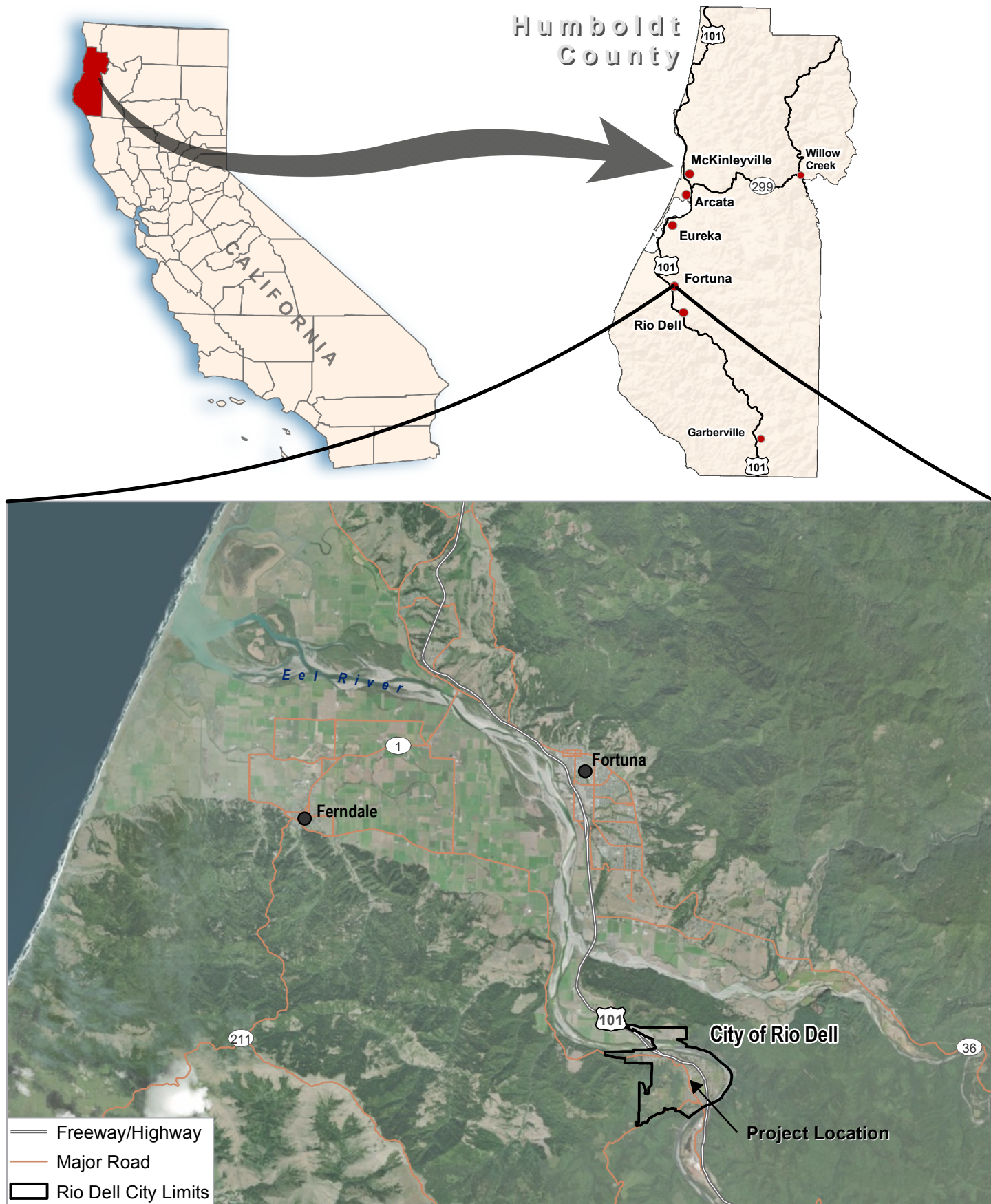
Project Milestones	Milestone Date (Month/Year)
PROGRAM PROJECT	12/2021
BEGIN ENVIRONMENTAL (PA&ED) PHASE	4/2022
COMPLETE ENVIRONMENTAL DOCUMENT (CEQA CE)	10/2022
END ENVIRONMENTAL PHASE (PA&ED MILESTONE)	1/2023
BEGIN DESIGN (PS&E) PHASE	4/2023
END DESIGN PHASE (RTL MILESTONE)	12/2023
BEGIN RIGHT-OF-WAY PHASE	4/2023
END RIGHT-OF-WAY PHASE	12/2023
BEGIN CONSTRUCTION PHASE	6/2024
END CONSTRUCTION PHASE	12/2024
BEGIN CLOSEOUT PHASE	1/2025
END CLOSEOUT PHASE	6/2025

10. EXTERNAL AGENCY COORDINATION

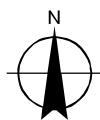
The project is not anticipated to require any external agency coordination

11. ATTACHMENTS

- A. Location Map
- B. Conceptual Drawings
- C. Representative Project Photos
- E. Engineer's Estimate



Paper Size ANSI A
0 1 2 3
Miles



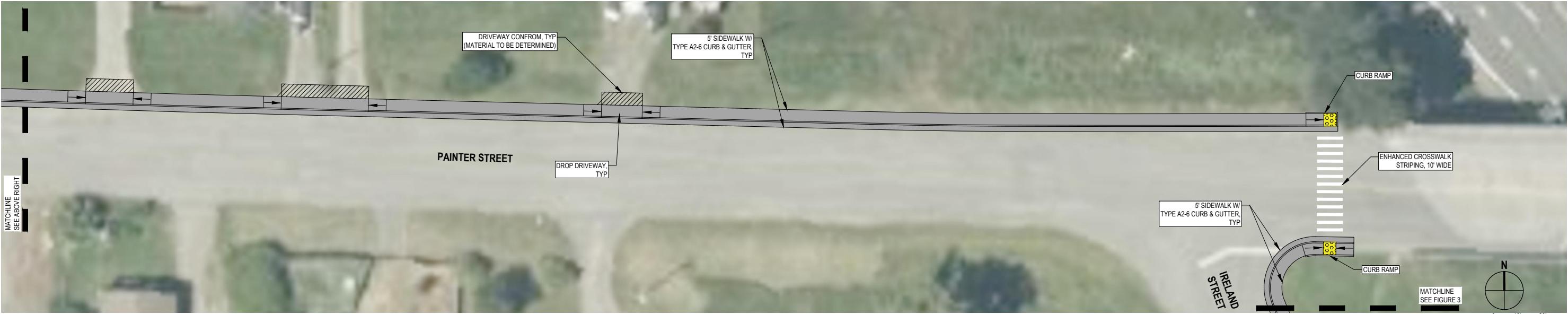
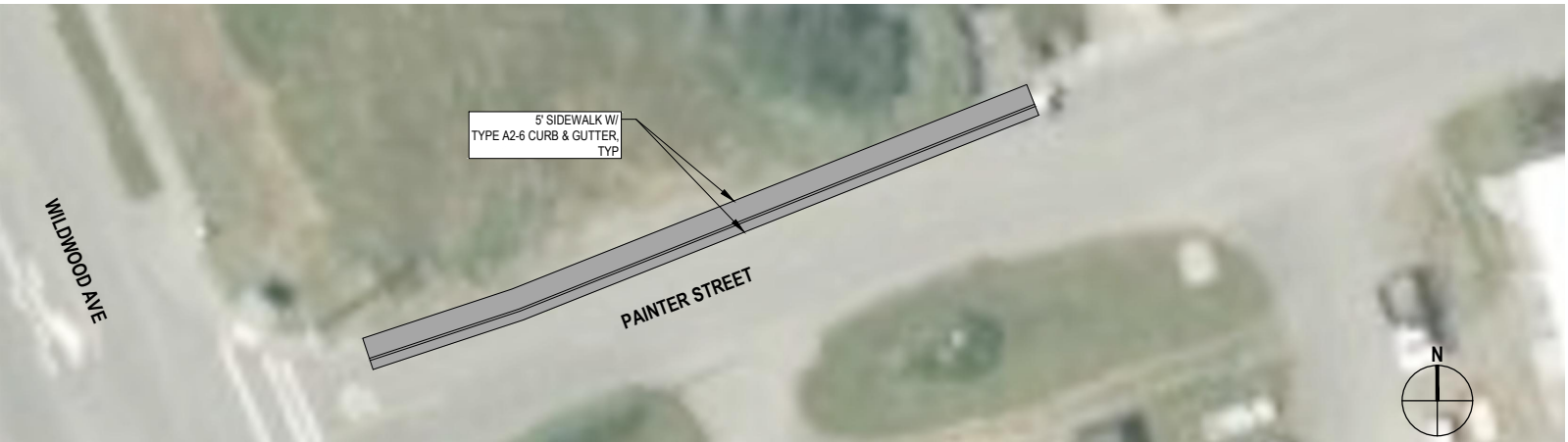
Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane California 1 FIPS 0401 Feet

Rio Dell
Neighborhood Pedestrian Connectivity
Improvements Project

Project No. 8410747.40
Revision No. -
Date Sept. 2021

Vicinity Map

FIGURE 1



<div>DRAFT NOT FOR CONSTRUCTION</div>			
No.	Issue	Checked	Approved
Author	O. GOODE	Drafting Check	N. SANGER
Designer	O. GOODE	Design Check	N. SANGER
		Project Manager	N. SANGER
		Project Director	B. SILVA
Date			



Bar is one inch on original size sheet
0 1"



GHD
GHD Inc.
718 Third Street
Eureka California 95501 USA
T 1 707 443 8326 F 1 707 444 8330
www.ghd.com

Conditions of Use
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.



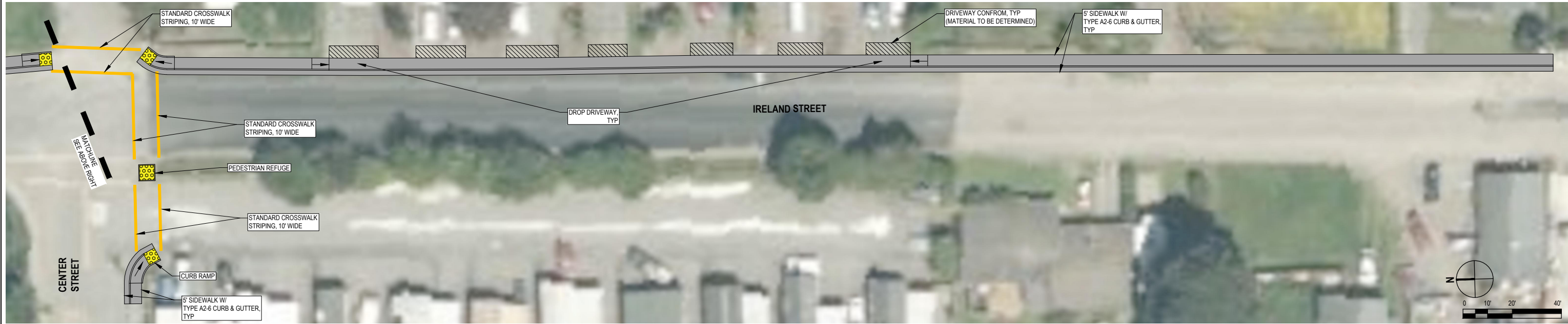
Client **CITY OF RIO DELL**
Project **RIO DELL NEIGHBORHOOD PEDESTRIAN AND CONNECTIVITY IMPROVEMENTS PROJECT**

Project No. **8410747** Date **9/15/2021** Scale **AS SHOWN**

Title **PAINTER STREET**

Figure No. **FIGURE 2**

Size **ANSI D**
Status Code
Sheet **2** of **4**



DRAFT NOT FOR CONSTRUCTION			
No.	Issue	Checked	Approved
Author	O. GOODE	Drafting Check	N. SANGER
Designer	O. GOODE	Design Check	N. SANGER
		Project Manager	N. SANGER
		Project Director	B. SILVA



Bar is one inch on
original size sheet
0 1"



GHD
GHD Inc.
718 Third Street
Eureka California 95501 USA
T 1 707 443 8326 F 1 707 444 8330
www.ghd.com



Conditions of Use
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.

Client **CITY OF RIO DELL**
Project **RIO DELL NEIGHBORHOOD PEDESTRIAN AND CONNECTIVITY IMPROVEMENTS PROJECT**

Title **IRELAND STREET**

Project No. **8410747**
Date **9/15/2021**
Scale **AS SHOWN**

Sheet No. **FIGURE 3**

Size **ANSI D**
Status Code
Sheet **3 4**



<div>DRAFT NOT FOR CONSTRUCTION</div>			
No.	Issue	Checked	Approved
Author	O. GOODE	Drafting Check	N. SANGER
Designer	O. GOODE	Design Check	N. SANGER
		Project Manager	N. SANGER
		Project Director	B. SILVA



Bar is one inch on
original size sheet
0 1"



GHD Inc.
718 Third Street
Eureka California 95501 USA
T 1 707 443 8326 F 1 707 444 8330



Conditions of Use
This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.

Client	CITY OF RIO DELL	
Project	RIO DELL NEIGHBORHOOD PEDESTRIAN AND CONNECTIVITY IMPROVEMENTS PROJECT	

Title IRELAND STREET

Project No.	8410747	Date	9/15/2021	Scale	AS SHOWN
-------------	---------	------	-----------	-------	----------

FIGURE 4

Size
ANSI D
Status Code
Sheet
4 4



Figure 5: Sidewalk terminates along Center St.



Figure 6: Sidewalk Terminates at the intersection of Davis St. and Ireland St. (No crosswalk or ADA ramps)



Figure 7: Missing sidewalk, ADA ramps and crosswalks at the southern intersection of Painter and Ireland



Figure 8: Existing sidewalk terminates and no cross walk or ADA ramp at the northern intersection of Painter St. and Ireland St.



Figure 9: Missing sidewalk and ADA ramps at the intersection of Painter St. and May Ave.



Figure 10: Sidewalk terminates at the intersection of Painter St. and Wildwood Ave.



Figure 11: No existing sidewalks or curbs along Painter St.

Opinion of Probable Construction Cost



Client: City of Rio Dell
 Project Title: Rio Dell Neighborhood Improvements

Date: 9/15/2021
 Status of Design: Conceptual
 GHD Project No.: 8410747.4

Item No.	Description	Quantity	Unit	Unit Cost	Total
1	Mobilization/Demobilization	1	LS	\$ 50,000	\$50,000.00
2	Construction Area Signs	10	EA	\$ 300	\$3,000.00
3	Construction Staking	1	LS	\$ 10,000	\$10,000.00
4	SWPPP/Erosion Control	1	LS	\$ 10,000	\$10,000.00
5	Traffic Control	1	LS	\$ 25,000	\$25,000.00
6	Clearing and Grubbing	1	LS	\$ 15,000	\$15,000.00
7	Miscellaneous Demolition and Removal	1	LS	\$ 20,000	\$20,000.00
8	Earthwork	1	LS	\$ 10,000	\$10,000.00
9	Materials Testing	1	LS	\$ 5,000	\$5,000.00
10	Class 2 Aggregate Base	80	CY	\$ 140	\$11,200.00
11	Adjust Utility Cover/Box to Grade	16	EA	\$ 900	\$14,400.00
12	Minor Concrete, 4" Thick Walkway	11,000	SF	\$ 14	\$154,000.00
13	Minor Concrete, Curb Ramps/Driveways	4,300	SF	\$ 32	\$137,600.00
14	Minor Concrete, A2-6 Curb and Gutter	2,940	LF	\$ 65	\$191,100.00
15	Detectable Warning Surface (cast in place)	120	SF	\$ 50	\$6,000.00
16	Hot Mix Asphalt (0.25')	80	TN	\$ 250	\$20,000.00
17	Thermoplastic Pavement Markings	440	SF	\$ 10	\$4,400.00
18	Replace/Reset Street Sign	4	EA	\$ 700	\$2,800.00

Construction Capital Subtotal \$689,500.00
 Construction Contingency (10%) \$68,950.00
Construction Capital Total \$758,450.00

E&P (PA&ED) (6%) \$45,507.00
PS&E (7%) \$53,091.50
Right of Way (4%) \$30,338.00
Construction (8%) \$60,676.00

Total Project Cost \$948,062.50

Note:

THIS OPINION OF PROBABLE COST HAS BEEN PREPARED USING STANDARD ENGINEERING ESTIMATE PROCEDURES. GHD HAS NO CONTROL OVER ACTUAL CONTRACTOR COSTS, BIDDING, OR MARKET CONDITIONS.