

Dr. Ernest Fine Memorial Bridge Replacement

Summary

The Project

This project will replace the Dr. Ernest Fine Memorial Bridge over the Smith River along Highway 101 in Del Norte County.

Benefits

A new bridge will improve safety for all users because the existing bridge was built in 1940 and is physically deficient and functionally obsolete.

Project Status

A draft environmental document is currently in preparation.

Project Costs

The total project cost is approximately \$74 Million.

Project Schedule

Draft Environmental Document: December 2014

Begin Construction: Targeting Summer 2017

Year of Completion: Targeting Fall 2020

Project Website

http://www.dot.ca.gov/dist1/d1/projects/dr_fine/

Contacts

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Before construction; looking east



After construction; looking east

Project Need

- Physically Deficient
 - Does not meet current seismic standards
 - Built in 1940; exceeded engineered design life
 - Piers vulnerable to scour from Smith River
 - Weight restrictions at approach spans
- Functionally Obsolete
 - Narrow bridge shoulders
 - No bicycle lanes
 - No pedestrian facilities
 - Bridge rail does not meet current safety standards



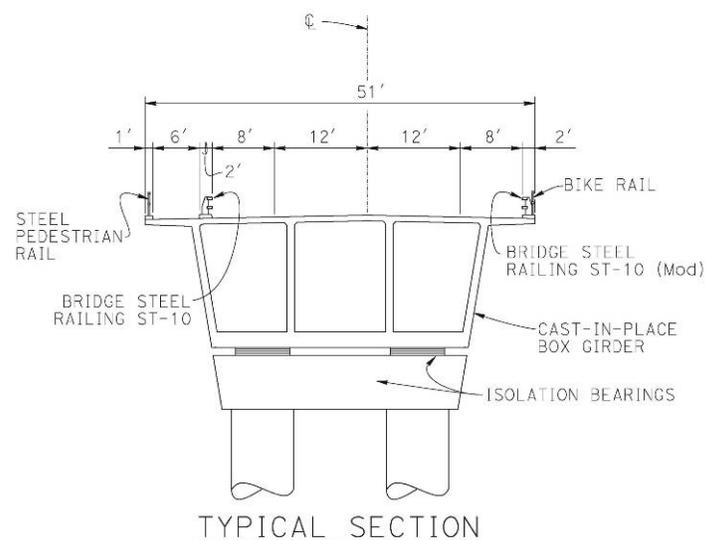
Existing non-standard concrete bridge rails, narrow shoulders (1-foot), and narrow elevated sidewalks (2-feet); Looking south



Photosimulation of the proposed bridge with separated walkway; Looking south

Proposed Project

- Within the existing alignment: Cast-in-Place Box Girder on Isolation Bearings
 - Two 12-foot lanes
 - Two 8-foot shoulders
 - One 6-foot separated walkway
 - Two 2-foot barrier railings
 - One 1-foot pedestrian railing
- Decoration railing with tribal pattern
- A retaining wall at each bridge corner
- Two temporary trestles for construction
- Existing bridge will be temporarily moved east or west as the temporary detour



Before



Western view towards the bridge, where South Bank Road traverses under the south end of the painted green steel girder section of the bridge

After



Photosimulation of the proposed bridge. Note, many piers are removed



Existing painted green steel girders and piers along Smith River bank and within water; Looking north from the southern bank



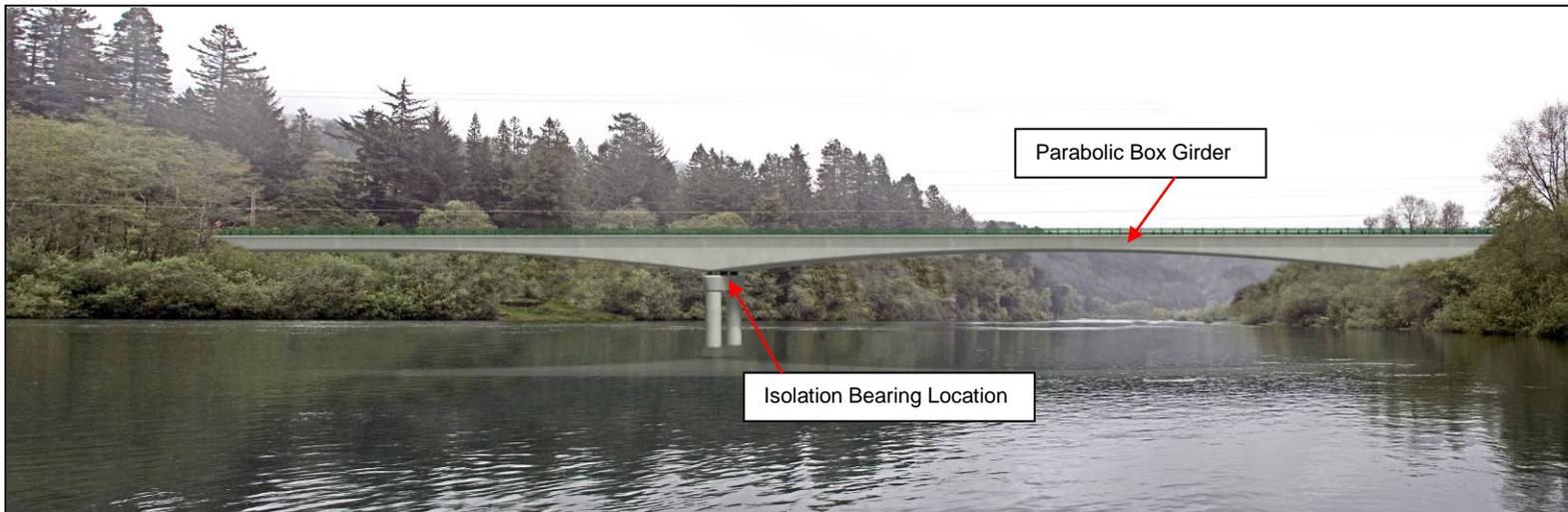
Photosimulation south of bridge; looking north



Photosimulation of the proposed bridge railing design known as “Friendship Design Pattern” variation (top portion)



Existing bridge with painted green steel girders; Orientation is east towards the existing bridge, which crosses north/south over the Smith River



Photosimulation of a parabolic box girder on isolation bearings; Orientation is east