

Pengra, Wendling, Deadwood Covered Bridge re-roofing Project
MP 0.036, 3.535, 0.307
Estimated Road Fund Cost \$63,000



Project Scope: Rehabilitate Pengra, Wendling, and Deadwood Covered Bridges roofing and other structural members.

Project Limit	Various	Bridge Number	C39004, 39C174,39C551
Functional Class		Project Status	Proposed
Road Name		Project Category	Structures

Existing Bridge Condition

ADT		Truck Traffic	
Bridge Type	Wooden Bridge	Load Rating	15 t, 10 t,18 ton
SR	55, 43, 64	Height	14.5', 12', 9'
Width	20', 17', 18'	Span	120', 60', 105'

Existing Bridge Views (Deadwood Covered Bridge)



Define the Problem

Deadwood Covered Bridges is posted with 10-ton load limits due to poor structural condition. Roofing materials on these bridges are at the end of service life and are heavy. This project will replace heavy roofing materials to shed some weight and reduce dead load on the structures.

Existing Bridge Views (Pengra Covered Bridge)



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Proposed Solution

Replace the existing roofing material with lightweight roof, thereby reducing dead load. This strategy will defer costly structural improvements needed in the bridges. Re-roofing bridge work is eligible for National Historic Covered Bridge Program (NHCBP) funding.

Project Cost (\$,000s)

PROJECT ELEMENT	TOTAL	FY 11	FY 12	FY 13	FY 14	FY 15
Pre-Engineering	\$30		\$10	\$10	\$10	
Right-of-way						
Construction Engineering	\$30		\$10	\$10	\$10	
Construction -structure	\$603		\$201	\$201	\$201	
Consultancy Service	\$0		\$0	\$0	\$0	
Total Cost	\$663		\$121	\$121	\$121	

Funding Source (\$,000s)

FUND SOURCE	TOTAL	FY 11	FY 12	FY 13	FY 14	FY 15
Road Fund-local match	\$63		\$21	\$21	\$21	
NHCBP Funding	\$600		\$200	\$200	\$200	
State Aid						
Other						
Total Fund	\$663		\$221	\$221	\$221	

Factors for Project Selection

Safety Improvement	<input type="checkbox"/>	<input type="checkbox"/>	Plan Consistency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Structural Capacity Enhancement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Economic Development	<input type="checkbox"/>	<input type="checkbox"/>
Congestion Improvement	<input type="checkbox"/>	<input type="checkbox"/>	Supports Tourism, Recreation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Provides Bike/Ped Alternative	<input type="checkbox"/>	<input type="checkbox"/>	Preserves Bridge Pavements	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Degree of Users Benefits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Has Public Support (Public Request)	<input type="checkbox"/>	<input type="checkbox"/>
Leverages Other Projects/Funds	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Total Factor Considered		7

Footnotes[†]

Project Selection Factors are shown for informational purposes only. Bridge projects are not ranked, are other project types, for funding priority. These projects are prioritized based on maintenance recommendations prepared by the bridge inspectors. These bridges have been recommended for rehabilitation in the recent bridge inspection report.

It is assumed that National Historic Covered Bridge Program (NHCBP) funds will be available for repairing one bridge at a time from FY 2012 through 2014, not in any particular order.

These Covered Bridges are candidates for rehabilitation / replacement owing to its poor structural condition rating and low overall bridge sufficiency rating (SR). Bridges with an SR below 50 are generally replaced with a new structure.

Lane County applied for NHCBP funds to preserve the historic bridge to make minor repairs such as re-roofing. Staff anticipates approval of the funds in future allocation cycle FY 2012 through 2014. Structural issues may be addressed separately by seeking other eligible funding from external funding sources, namely Highway Bridge Program, as opportunities become available.

The Road Fund cost shown is required local match for federal funding, which is calculated at the required match rate, of up to 20%. The project costs shown are tentative and based on similar projects completed in the past. The cost will be updated when scope and funding details become available.