

Structure ID: _____ Feature On: _____
Date: _____ Feature Under: _____
County: _____ Municipality: _____ of _____

Introduction

This rehabilitation report will serve as the "independently funded engineering study" to determine if bridge _____ in the _____ of _____ meets the eligibility criteria as established in Wisconsin Administrative Code Trans 213.

Bridge Description

_____ is a _____ span _____ bridge built in year _____. The following rehabilitation work has been completed (attach additional page if more space needed):

It is _____ feet long and _____ feet wide. It is _____ Fracture Critical _____ Load Posted
_____ Scour Critical _____ Other: _____

Wisconsin Administrative Code Trans 213

Wisconsin Administrative Code Trans 213 addresses county, city, village, and township funding eligibility for local bridge replacements and local bridge rehabilitation. Local bridges that are deficient and have a sufficiency rating less than or equal to 80 are eligible for rehabilitation funding.

Bridges that are eligible for rehabilitation must satisfy the following criteria:

1. The proposed rehabilitation would be cost effective.
2. The proposed rehabilitation would extend the life of the bridge by at least 10 years.
3. The proposed rehabilitation would correct all deficiencies. This criterion may be waived if the rehabilitation is determined to be eligible based on "safety and the public interest."

Deficiency Analysis

A bridge is deficient if it is considered structurally deficient (SD) or functionally obsolete (FO). The following table summarizes the appraisal ratings for _____ in comparison to the criteria for being defined as SD or FO. The data was taken from (complete one):

- The most recent Eligible Bridge List, dated _____
- HSIS on _____

Rehabilitation Report for Bridge Local Program Funding - Concrete Overlay

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Deficiency Analysis Table

Description	NBI Item #	Appraisal Rating*	Bridge is SD or FO if one of the following is met:	Eligible?	
Deck Rating	(58)		<=4	Yes	No
Superstructure Rating	(59)		<=4	Yes	No
Substructure Rating	(60)		<=4	Yes	No
Culvert Rating	(62)		<=4	Yes	No
Structural Evaluation	(67)		<=3	Yes	No
Deck Geometry	(68)		<=3	Yes	No
Underclearance	(69)		<=3	Yes	No
Waterway Adequacy	(71)		<=3	Yes	No
Approach Roadway Alignment	(72)		<=3	Yes	No

*Note: NBI appraisal ratings can be found on the Eligible Bridge List or in HSIS.

_____ is considered deficient based on Trans 213 criteria and is therefore eligible for Federal rehabilitation funds.

Rehabilitation Analysis

The following table summarizes the _____ bridge ratings in comparison to Trans 213 criteria for rehabilitation:

Description		Trans 213 Standard	Eligible?
Bridge Sufficiency Rating		80 or less	Eligible
Bridge life extension	20 years	Minimum 10 years	Eligible
Cost Effective Rehabilitation	Yes	Rehab is cost effective	Eligible
Engineering Study	Provided by WisDOT Bureau of Structures	Funded independently	Eligible

_____ meets the rehabilitation criteria in Trans 213 and thus is eligible for Federal rehabilitation funds.

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Cost-Effective Rehabilitation

The latest inspection data is used to determine work action eligibility. The current inspection condition data is compared to the eligibility criteria for a work action. If the criteria for one work action are not met, the criteria for a different work action are checked. Work actions are checked in order of most cost-effective. If no work actions are eligible for the current year using the current inspection data, the condition data is deteriorated to project the condition in the next year. The work action criteria are then checked for the deteriorated condition data. This process continues until either a work action is found eligible, or until each year of the analysis period is checked and no work actions are found to be eligible based on the condition data.

Recommended Alternative – Concrete Overlay

Primary work activity: Rehabilitation of the bridge, mill deck wearing surface, and place a concrete overlay.

Secondary work activities (attach additional page if more space needed):

A concrete overlay is a cost-effective rehabilitation for this bridge.

If the bridge has not had an overlay, then to be recommended for a concrete overlay the following criteria must be met:

- Number of overlays = 0
- Deck NBI < 6.5
- Deck NBI > 3.5
- Substructure NBI >= 4
- One of the following:
 - Area of defect 3210 debonding/delaminations/spalls/patch areas/pothole in CS2, CS3 and CS4 > 15% of the wearing surface area
 - Area of defect 3220 crack in CS3 and CS4 > 20% of the wearing surface area
 - Area of defect 8911 abrasion/wear/rutting/loss of friction in CS3 and CS4 > 20% of the wearing surface area
- Area of defect 1080 delaminations/spalls/patch areas/exposed rebar in CS2, CS3 and CS4 < 5% of the deck area
- Area of defect 1130 cracking/efflorescence in CS3 and CS4 < 25% of the deck area

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If the bridge currently has an overlay, then to be recommended for a concrete overlay the following criteria must be met:

- Number of overlays < 3
- Deck NBI < 6.5
- Deck NBI > 3.5
- Substructure NBI >= 4
- One of the following:
 - Area of defect 3210 debonding/delaminations/spalls/patch areas/pothole in CS2, CS3 and CS4 > 20% of the wearing surface area
 - Area of defect 3220 crack in CS3 and CS4 > 50% of the wearing surface area
 - Area of defect 8911 abrasion/wear/rutting/loss of friction in CS3 and CS4 > 20% of the wearing surface area
- Area of defect 1080 delaminations/spalls/patch areas/exposed rebar in CS2, CS3 and CS4 < 5% of the deck area
- Area of defect 1130 cracking/efflorescence in CS3 and CS4 < 25% of the deck area

The estimated cost for the primary structure work is _____. Secondary structure work is estimated to be _____. The total structure rehabilitation cost is _____.

This alternative would extend the life of the bridge an estimated 20 years. This rehabilitation alternative meets and exceeds the Trans 213 criteria for Federal bridge rehabilitation funding.

Appendix

- Most recent inspection report
- Cost estimate

Completed by:

Consultant

Owner

Other: