



Historic Bridge Alternatives Analysis Report Outline

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I. Table of Contents

II. Executive Summary

III. Introduction

Explain the reasons this report is being written. As applicable, explain the Section 106 and/or New Jersey Register review process.

IV. Location

Describe the project location in the narrative. Illustrate it with a labeled U.S.G.S. Quadrangle (“quad”) map.

A. Describe surrounding natural environment.

B. Describe surrounding built environment.

1. Listed or eligible National Register buildings, sites, objects, structures and/or districts in the area.
2. Urban/rural character.

C. The Structure.

D. Technical Information.

1. Bridge type.
2. Explanation of functions of parts.
3. Materials.

E. History/Significance.

1. Date of Construction.
2. Designer.
 - a. Patented Design.
 - b. Construction Details.
3. Fabricator/Builder.

F. Identify character-defining features of historic bridge.

G. Integrity: the extent to which the character-defining features have survived.

H. Condition.

1. Narrative description of existing conditions.
2. Photos with captions keyed to an elevation plan of the entire structure.
3. Reflect the descending urgency of any deterioration in the order of the bridge. In other words, place areas with the lowest sufficiency ratings first in the report. Components are grouped as follows:
 - a. Substructure/abutments.
 - b. Superstructure.
 - c. Electrical and mechanical systems.
 - d. Support structures and buildings.

V. Project Need

Explain the problems with current conditions.

- A. Bridge Condition. If appropriate, explain why the conditions which were illustrated above are unacceptable.
- B. Traffic Volume, both current and future. Cite sources and methodologies.
- C. Geometrics.
- D. Accident history.
- E. Safety features (e.g., railings).

VI. Explanation of Alternatives

For all alternatives, include explicit information regarding the following: cost; impacts to nearby cultural resources, if existing; and impacts to social and economic conditions of surrounding environment.

- A. No Build: standard maintenance procedures on existing structure.
- B. Other means of addressing project need:
 - 1. Demand dampening
 - 2. Alternate crossings.
 - 3. Traffic management.
- C. Rehabilitation according to *Secretary of Interior's Standards for Rehabilitation*.
- D. Modified Rehabilitation: Preserving the character-defining elements of the bridge while introducing significant changes (e.g., widening a metal truss bridge). If previous consultation with the HPO has resulted in the identification of eligible or listed archaeological sites, then project impacts on the sites should be described and evaluated.
- E. Replacement: cost information must include demolition costs. If previous consultation with the HPO has resulted in the identification of eligible or listed archaeological sites, then project impacts on the sites should be described and evaluated.
 - 1. Alternative alignments.
 - 2. Alternative replacement structure types.

VII. Selection of Preferred Alternative

Include a fully justified rationale. Derive justification from information previously presented in the report.

- A. Narrative justification of selection of preferred alternative.
- B. In a matrix, compare how each alternative meets the following project goals:
 - 1. Historic Preservation.
 - 2. Cost.
 - 3. Geometrics.
 - 4. Traffic Capacity.
 - 5. Safety.
 - 6. Environmental concerns (e.g., wetlands).
 - 7. Construction constraints.

VIII. Conclusion

- A. Recommended finding of effect (no effect, no adverse effect, adverse effect).
- B. If the recommended finding is for an adverse effect, then include suggested mitigation measures.

IX. Appendices

- A. Schedule for completion of preferred alternative.
- B. Copy of most recent bridge inspection report.
- C. Letters from local officials and citizens expressing their concerns and/or opinions regarding the existing problem(s) and proposed solution.
- D. Police accident reports.
- E. Vitae of persons involved in writing report.



NJ Historic Preservation Office

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