

# Structure Selection Report QA Checklist

This checklist is to serve as quality assurance of the structure selection process. The sections in the report need not be in the same order as this checklist. This checklist must be signed by Staff Bridge Unit Leader or designee prior to submittal of FIR documents to the Region.

Structure Number(s): \_\_\_\_\_

## Cover Sheet

- Name of the Project and Site Address
- Structure Number(s)
- Property Owner Name and Contact Information
- Report Preparer Name and Contact Information
- Submittal and Revision Dates as Applicable

## Executive Summary

- Project Description
- Structure Recommendations

## Site Description and Design Features

- Existing Structure(s)  N/A: \_\_\_\_\_
- Vicinity Map  N/A: \_\_\_\_\_
- ROW Impact  N/A: \_\_\_\_\_
- Traffic Detour  N/A: \_\_\_\_\_
- Constructability & Construction Phasing  N/A: \_\_\_\_\_
  - Utilities  N/A: \_\_\_\_\_
  - Geotechnical Summary  N/A: \_\_\_\_\_
  - Hydraulics Summary  N/A: \_\_\_\_\_
  - Environmental Concerns  N/A: \_\_\_\_\_
  - Roadway Design Features
    - Cross Section
    - Vertical Alignment
    - Horizontal Alignment

## Structural Design Criteria

- Design Specifications
- Loading  N/A: \_\_\_\_\_
  - Collision Load
  - Earthquake Load
- Aesthetic Requirements  N/A: \_\_\_\_\_
- Possible Future Widening  N/A: \_\_\_\_\_

## Structure Selection

- Selection Criteria
- Rehabilitation Alternatives  N/A: \_\_\_\_\_
  - Inspection Summary
  - Load Testing Requirements  N/A: \_\_\_\_\_

Add figures/sketches to the following topics as needed to clarify discussion:

- Structure Layout Alternatives
  - Vertical Clearances
  - Horizontal Clearances
  - Skew
  - Span Configurations
- Superstructure Alternatives  N/A: \_\_\_\_\_
  - Concrete Girder Alternatives
  - Steel Girder Alternatives

- Substructure Alternatives  N/A: \_\_\_\_\_
  - Abutment Alternatives (GRS, Integral, Semi-integral, etc.)
  - Pier Alternatives
- Wall Alternatives  N/A: \_\_\_\_\_
- Deck Drainage  N/A: \_\_\_\_\_
- Expansion Joints
- ABC Design (include pre-scoping ABC rating results from spreadsheet found on the CDOT website)
- Maintenance and Durability
- Corrosive Resistance
- Summary of Structure Type Evaluation Table
- Construction Costs (including costs of alternatives)

**Other**

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**Figures and Appendices**

- General Layout of the Selected Structure  
Alternative Typical Sections (if not provided in the report)
- Summary of Quantities and Cost Estimate Tables
- ABC Rating spreadsheet

**List of Variances**

Requested Variance: \_\_\_\_\_

Approved?  Yes       No

Requested Variance: \_\_\_\_\_

Approved?  Yes       No

Requested Variance: \_\_\_\_\_

Approved?  Yes       No

*If you need more space, use an additional sheet(s) of paper.*

**CDOT Staff Bridge Quality Assurance Sign-off**

By signing this checklist Staff Bridge Unit Leader acknowledges approval of the Structure Selection Report findings, recommendations, and all design deviations from the CDOT Structural Standards and design criteria.

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date