

BRIDGE DESIGN CONSTRUCTABILITY CHECKLIST



PROJECT INFORMATION

- ♦ Project Name: _____
 - ♦ Project No: _____
 - ♦ Bridge No.: _____
 - ♦ Location: _____
 - ♦ Designer: _____
 - ♦ Checker: _____
 - ♦ Drafter: _____
 - ♦ Reviewer: _____
- NOTE: Each item, when applicable, is Checked (Y, N, N/A), Dated and Initialed by the Designer, Checker, and Reviewer.

Description	Yes	No	N/A	More Info Needed	Designer Checker Reviewer	DATE
1. Biddability The clarity of the final plan and proposal to the bidders so a fair and accurate bid is submitted.						
<i>Are bidders unnecessarily restricted in their bids, or has appropriate degree of flexibility been included in the bidding documents?</i>						
<i>Information sufficient to avoid major field changes?</i>						
<i>Permits identified and sufficient time allowed to obtain?</i>						
<i>Contract Plans adequate?</i>						
<i>Contract Plans too restrictive?</i>						
<i>Items appropriate?</i>						
<i>Items omitted?</i>						
<i>Cross referencing between various contract documents consistent?</i>						
2. Buildability The accuracy and completeness of the contract plans so the design can be built as shown on the final plans.						
A. Site Investigation						
<i>Sufficient field investigation done to ascertain that contract work can be performed as shown on plans?</i>						
<i>Subsurface exploration?</i>						
<i>Utility investigation?</i>						
<i>Current Traffic counts?</i>						
<i>Structural inspection?</i>						
<i>Emergency/ interim structural repairs been considered?</i>						

Checklist is to be used as a general guide. The list is **not** all inclusive.

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B. Right of Way						
<i>Equipment, material, and hazardous waste storage?</i>						
<i>Staging?</i>						
<i>Access to work areas?</i>						
<i>Adequate ROW to erect beams?</i>						
<i>ROW and easements needed for permanent structures and drainage?</i>						
C. Construction Phasing						
<i>Phased to provide minimum number of stages and reasonable work areas and access?</i>						
<i>Are there areas with restricted access?</i>						
<i>Does phasing cause special conditions (i.e. structural adequacy/ stability)?</i>						
<i>Proposed adjacent contracts, restrictions, constraints identified and accounted for?</i>						
<i>Can the details as shown on the plans be constructed using standard industry practices, operations, and equipment?</i>						
D. Traffic Control						
<i>Requirements realistic for site conditions</i>						
<i>Are lane closures reasonable for traffic volumes?</i>						
<i>Can construction operations be carried out safely under plan traffic control and phasing?</i>						
<i>Design adequate for averting delays/ congestion?</i>						
<i>Is a detour necessary for averting delays/ congestion?</i>						
<i>Traffic Control reviewed by Bureau of Traffic?</i>						
E. Schedule						
<i>Is sequence of construction reasonable?</i>						
<i>Seasonal limits on construction operations?</i>						
<i>Utility relocation schedule reasonable?</i>						
<i>Regulatory permit restrictions?</i>						
<i>Materials ordering, fabrication, and delivery requirements</i>						
<i>All necessary construction operations identified?</i>						
<i>Impact of additional work?</i>						
<i>Time related specs - completion/ milestone realistic?</i>						

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F. Special Materials / Conditions						
<i>Pertinent provisions and restrictions clearly indicated?</i>						
<i>Any special (unique/ proprietary) materials, methods of technologies required for contract?</i>						
<i>Special coordination required, RR, Permits, Regulatory?</i>						
<i>Presence of asbestos, hazardous waste or toxic materials?</i>						
<i>Safety requirements, fall protection, electric lines, and other utilities, RR requirements?</i>						
<i>Winter concreting and the schedule for delivery of concrete?</i>						