

# Mn/DOT Office of Technical Support—Consultant Services

## Work Type Definition

Rev. 1.2 (12/23/04)

Work Type Name	11.2 Construction Inspection—Bridge Construction	
Work Type Owner	Office of Construction and Innovative Contracting (Joel Williams)	
Work Type Input	Inputs include the most recent version of some or all of the following:	
	<ul style="list-style-type: none"> <li>• Contract Documents</li> <li>• Mn/DOT Standard Specifications for Construction</li> <li>• Mn/DOT Bituminous Manual</li> <li>• Mn/DOT Bridge Construction Manual</li> <li>• Mn/DOT Bridge Standard Plans</li> <li>• Mn/DOT Concrete Manual</li> <li>• Mn/DOT Contract Administration Manual</li> <li>• Mn/DOT Grading and Base Manual</li> <li>• Mn/DOT Laboratory Manual</li> <li>• Mn/DOT Landscape Projects Manual</li> <li>• Mn/DOT Erosion Control Handbook</li> </ul>	<ul style="list-style-type: none"> <li>• Mn/DOT Standard Plans Manual</li> <li>• Mn/DOT Standard Plates Manual</li> <li>• Mn/DOT Standard Signs Manual</li> <li>• Mn/DOT Survey and Mapping Manual</li> <li>• Mn/DOT Technical Manual</li> <li>• Mn/DOT Traffic Engineering Manual</li> <li>• Mn/DOT Labor Compliance Manual</li> <li>• Mn/DOT Technical Certification Handbook</li> <li>• Mn/DOT Technical Memorandums</li> <li>• Minnesota Uniform Traffic Control Device (M.U.T.C.D.) Manual</li> </ul>
Work Type Definition	<p>This class of inspection work is intended to assure that bridge construction work performed on state construction projects are in compliance with the Contract documents, construction Plan, Contract Special Provisions, Mn/DOT Standard Specifications for Construction, Mn/DOT policies, procedures and standards, Occupational Safety &amp; Health Administration (OSHA) Regulations, and Federal Highway Administration (FHWA) guidelines, as well as any other applicable laws. On-site construction inspection is provided on a full time basis during construction activities.</p> <p>The work includes resolution of field problems as quickly as possible. Generally, field problems are any types of difficulties encountered during construction through circumstances that require some degree of engineering evaluation and decision. Field problems may involve situations such as: out of place piling, out of tolerance work, out of specification materials, structural defects, accidental damage, underground obstructions, etc. These problems may have a significant impact on the execution, progress or cost of the project. It is therefore of paramount importance that they be resolved expeditiously.</p>	
Work Type Output	Bridge Construction Inspection reports and documents.	

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 Rev. 1.2 (12/23/04)

Work Type Name	<b>11.2 Construction Inspection—Bridge Construction (Cont.)</b>
<i>Specific Examples of Output</i>	<p>The work type output may include some or all of the following:</p> <ul style="list-style-type: none"> <li>• Measure and compute quantities of all contract work;</li> <li>• An assembly of all relevant information regarding difficulty, problem or defect encountered;</li> <li>• Proposed remediation of difficulty, problem or defect;</li> <li>• Field operations reports;</li> <li>• Periodic, intermediate and final data and records;</li> <li>• Diaries, logs, notebooks, accounts, records, reports and other documents;</li> <li>• Final inspection report;</li> </ul>
<i>Quality Attributes of Output</i>	<ul style="list-style-type: none"> <li>• All work performed in accordance with applicable specifications, rules &amp; regulations;</li> <li>• Field operations in accordance with OSHA regulations and accepted safety practices.</li> <li>• Timely problem resolution and communication to Engineer;</li> <li>• All work properly measured and documented in a timely manner;</li> </ul>

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11.2 Construction Inspection—Bridge Construction Minimum Technical Qualifications	
<b><i>Requirements of the Professional Staff</i></b>	
<i>Minimum Number of Staff</i>	<ul style="list-style-type: none"> <li>At least one inspector with <b>all each of</b> the proper professional certifications listed below.</li> </ul>
<i>Professional Certification/Licensure</i>	<ul style="list-style-type: none"> <li>High school graduate</li> <li>Mn/DOT Bridge Inspection 2</li> <li>Mn/DOT Technical Certification, Concrete Field Level 2</li> <li>Mn/DOT Technical Certification, Bituminous Street Level 2</li> <li>Mn/DOT Technical Certification, Grading and Base Level 2</li> </ul>
<i>Qualifying Experience</i>	<ul style="list-style-type: none"> <li>Five (5) years of recent experience in construction inspection.</li> <li>Three (3) of the above five years experience shall be in bridge construction inspection.</li> </ul>
<b><i>Requirements of the Firm</i></b>	
<i>Past Record &amp; Experience of Firm</i>	<ul style="list-style-type: none"> <li>The firm must have a working knowledge of Mn/DOT Standard Specifications for Construction.</li> <li>This requirement is to include at least five (5) projects in the preceding five (5) years of construction inspection experience. (Experience by qualified professional staff may be cited in lieu of experience by the firm.)</li> <li>The firm must have an individual proficient in the use of Mn/DOT's CAARS software.</li> </ul> <p><i>Note: Training is available through the Mn/DOT Office of Construction and Contract Administration.</i></p>

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<b>11.2 Construction Inspection—Bridge Construction</b> <b>Minimum Technical Qualifications</b>	
<i>Submittal Requirements</i>	
<i>Requirements of Professional Staff</i>	<ul style="list-style-type: none"> <li>• Qualifying experience of staff in the category/level of work shall be documented by resumes and personal experience histories of the firm's principals or key personnel. Principals or key personnel are those individuals who satisfy the listed professional requirements and will perform subsequent project work.</li> <li>• Documentation must include <i>reference</i> to qualifying projects, including a description of the project(s) and the individual roles and responsibilities on the project(s). In addition, list the applicable professional certifications and date acquired.</li> <li>• Submit photocopies of all up-to-date technical certifications.</li> </ul>
<i>Requirements of Firm</i>	<ul style="list-style-type: none"> <li>• Experience of the firm in the category shall be demonstrated by <i>reference</i> to completed projects and/or training, including a description of the project(s) and the firm's role and responsibilities on the project(s).</li> </ul>
<i>Project Documentation</i>	<ul style="list-style-type: none"> <li>• Project examples, when required, may be submitted electronically (on CD's) or in hard copy (i.e. reports, plans, etc.).</li> </ul>

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