

## **Administration and Inspection Activities for Modular Bridge Structures for Temporary Installations**

(As Specified in OPSS 918)

### **918.01 SCOPE**

This CAIS covers the construction administration and inspection requirements for the design, supply, construction, maintenance, and removal of modular bridge structures used for installations, including substructure elements, ramps, bank seats, decking, sidewalks, and railings as specified in OPSS 918, November 2026.

### **918.02 REFERENCES**

This CAIS refers to the following standards, specifications, or publications:

#### **Ontario Provincial Standard Specifications:**

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| OPSS 501  | Compacting                                                                 |
| OPSS 906  | Structural Steel for Bridges                                               |
| OPSS 918  | Construction Specification for Modular Bridge Structures for Installations |
| OPSS 1601 | Wood, Preservative Treatment, and Shop Fabrication                         |

#### **Construction Administration and Inspection Specifications (CAIS):**

|           |                                                    |
|-----------|----------------------------------------------------|
| CAIS 501  | Compacting                                         |
| CAIS 906  | Structural Steel for Bridges                       |
| CAIS 1601 | Wood, Preservative Treatment, and Shop Fabrication |

#### **MTO Forms:**

|           |                                |
|-----------|--------------------------------|
| PH-CC-701 | Request to Proceed             |
| PH-CC-702 | Notice to Proceed              |
| PH-CC-811 | Certification of the Component |
| PH-CC-822 | Certificate of Conformance     |

### **918.03 DEFINITIONS**

For the purpose of this CAIS, the definitions shall be as specified in OPSS 918.

### **918.04 DESIGN AND SUBMISSION REQUIREMENTS**

#### **918.04.02 Submission Requirements**

##### **918.04.02.01 Working Drawings, Procedures and Certifications**

Administrative Activities:

|   |   |                                                                                                                                                                                                                                                                                                                                                                                                             |   |
|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | - | Receive and Check that the Design and Working Drawings are as specified in the Contract Documents at least 14 Days prior to the intended start work date and commencement of the installation of the modular bridge or any substructure components.                                                                                                                                                         | - |
| 2 | - | Receive and Check that the assembling, launching, installation, and removal procedures, including material and equipment used, are as specified in the Contract Documents at least 14 Days prior to the commencement of the installation of the modular bridge or any substructure components.                                                                                                              | - |
| 3 | - | Receive and Check the letter and design calculations certifying the modular bridge and substructure elements have been designed according to the Contract Documents at least 14 Days prior to the commencement of the installation of the modular bridge. If substructure elements are reused, Check that structural evaluation report, calculations and repairs and/or strengthening details are included. | - |
| 4 | - | When previously used components and substructure elements are being reutilized, receive and Check the inspection report and letter certifying that all used components and substructure elements are in good structural condition as specified in OPSS 918.04.02.01.                                                                                                                                        | - |
| 5 | - | For fabrication outside of Canada, receive and Check letter certifying that materials used, and the fabrication of the modular bridge components are according to the Contract Documents including OPSS 906 and CAIS 906 at least 14 Days prior to the commencement of the installation of the modular bridge.                                                                                              | - |
| 6 | - | Receive and Check load test reports, when applicable, are as specified in the Contract Documents at least 14 Days prior to the commencement of the installation of the modular bridge.                                                                                                                                                                                                                      | - |
| 7 | - | When other authorities are involved in the approval of the design and construction of the modular bridge, Check that the submission is made as specified in OPSS 918.04.02.01.                                                                                                                                                                                                                              | - |
| 8 | - | Submit a copy of Working Drawings; launching, installation and removal procedures; and load test reports to the Regional Structural Engineer.                                                                                                                                                                                                                                                               | - |

#### **918.04.02.02            Modular Bridge Superintendent**

##### **Administrative Activities:**

|   |   |                                                                                                                                                                                           |   |
|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | - | Receive and Check the documents including the name of the superintendent and their qualifications according to OPSS 918 at least 7 Days prior to the commencement of modular bridge work. | - |
|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

**918.04.02.03 Notice of Installation**

Administrative Activities:

|   |   |                                                                                                                                          |   |
|---|---|------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | - | Receive and Check that written notice has been submitted at least 7 days prior to the installation of the modular bridge superstructure. | - |
|---|---|------------------------------------------------------------------------------------------------------------------------------------------|---|

**918.07 CONSTRUCTION****918.07.01 General**

Inspection Activities:

|   |   |                                                                                                                                                                                                                                                                                                                                             |      |
|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | M | Check the foundations constructed are in accordance with the Contract Documents.                                                                                                                                                                                                                                                            | 100% |
| 2 | - | Check that layout and elevations of the launching and construction rollers have been approved. Check that founding elements, cribs, and footings are located in accordance with the Contract Documents. Confirm that specified truss chord configurations (e.g. SS, SSR, SSRH, DSR, etc.) match the requirements of the Contract Documents. | 100% |
| 3 | M | Check that all bracing bolts, chord bolts and transom clamps remain fully tightened.                                                                                                                                                                                                                                                        | 25%  |
| 4 | - | Check that base plates and bearings are free of debris.                                                                                                                                                                                                                                                                                     | 25%  |
| 5 | - | Inspect base plates and cribs for settlement.                                                                                                                                                                                                                                                                                               | 25%  |
| 6 | - | Check timber for soundness and specified requirements as per OPSs 1601 and CAIS 1601.                                                                                                                                                                                                                                                       | 25%  |
| 7 | - | Check material control is as specified in the Contract Documents.                                                                                                                                                                                                                                                                           | 25%  |
| 8 | M | Check that the modular bridge has been constructed in conformance with the requirements of the Contract Documents noting any difference from manufacture's specifications.                                                                                                                                                                  | 100% |
| 9 | - | Check that modular bridge removal is in accordance with the Contract Documents.                                                                                                                                                                                                                                                             | 25%  |

Administrative Activities:

|   |   |                                                                                                                                                                                                                |   |
|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | - | Receive and Check documentation demonstrating experience of Superintendent is as specified in OPSS 918, at least 7 days prior to installation of the modular bridge.                                           | - |
| 2 | - | Check that erosion and sediment controls are in place and functioning prior to start of modular bridge installation. Determine if additional erosion control measures or additional locations may be required. | - |
| 3 | - | Check that all environmental constraints have been complied with (fisheries approvals, Work on the banks, etc.) prior to installation.                                                                         | - |

**918.07.05 Bank Seats**

Administrative Activities:

|   |   |                                                                                                                                                                                                                            |   |
|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | - | Check fill under bank seats is compacted as specified in the Contract Documents and is compacted according to OPSS 501. For compaction, additional administrative and inspection activities shall be according to CAIS 501 | - |
|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

**918.07.07 Modular Bridge Survey Prior to Opening to Traffic**

Administrative Activities:

|   |   |                                                              |   |
|---|---|--------------------------------------------------------------|---|
| 1 | - | Receive and Check PH-CC-811, Certification of the Component. | - |
|---|---|--------------------------------------------------------------|---|

**918.07.08 Inspection after the Completion of the Construction of the Modular Bridge Structure**

Administrative Activities:

|   |   |                                                                                                                                                              |   |
|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | - | Receive and Check PH-CC-822, Certificate of Conformance, and PH-CC-701, Request to Proceed, upon completion of construction of the modular bridge structure. | - |
| 2 | - | Issue PH-CC-702, Notice to Proceed, prior to the modular bridge structure opening for traffic.                                                               | - |

**918.07.09 Modular Bridge Survey after Opening to Traffic**

Administrative Activities:

|   |   |                                                              |   |
|---|---|--------------------------------------------------------------|---|
| 1 | - | Receive and Check PH-CC-811, Certification of the Component. | - |
|---|---|--------------------------------------------------------------|---|

**918.07.10 Defects, Deficiencies, and Repairs**

Inspection Activities:

|   |   |                                                                                                                                                                         |      |
|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | - | Inspect the modular bridge, including bearings, bank seats, ramps, decking, sidewalks, railing, approaches, and substructure elements for the duration of the Contract. | 25%  |
| 2 | - | Check that deficiencies are corrected as specified in the repair proposal.                                                                                              | 100% |

**918.07.11 Modular Bridge Maintenance**

Inspection Activities:

|   |   |                                                                                               |   |
|---|---|-----------------------------------------------------------------------------------------------|---|
| 1 | - | Check that the modular bridge structure is being monitored as specified in OPSS 918.07.11.02. | - |
|---|---|-----------------------------------------------------------------------------------------------|---|

**918.08 QUALITY ASSURANCE**

Inspection Activities:

|   |   |                                                                                                                                                              |      |
|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | - | Upon completion of construction of the modular bridge and prior to opening to traffic, inspect all modular bridge components as specified in OPSS 918.08.01. | 25%  |
| 2 | - | Inspect the bridge to determine if the concerns reported in the inspection have been adequately addressed in the completed work.                             | 100% |
| 3 | - | Receive and review all inspection reports of bridge maintenance from the contractor and assess whether modular bridge is safe for use during construction    |      |

**918.10 BASIS OF PAYMENT**

Administrative Activities:

|   |   |                                                     |   |
|---|---|-----------------------------------------------------|---|
| 1 | - | Basis of payment shall be as specified in OPSS 918. | - |
|---|---|-----------------------------------------------------|---|

WARRANT: Always with OPSS 918, Construction Specification for Modular Bridge Structures for Temporary Installations.