DATE: 12/14/2015

TO: Ancillary Structure Inspectors and Program Managers

FROM: Richard Marz, P.E.
Chief Structures Maintenance Engineer
Bureau of Structures

SUBJECT: Technical Memorandum
Definition and Inventory Management of state owned/maintained Small Bridge Structures (C-Structures)

IMPLEMENTATION: This memorandum applies to all state owned/maintained structures in Wisconsin that carry vehicular traffic, excluding bridges as defined by the National Bridge Inspection Standards (NBIS), and is effective as of 1/1/2016.

GUIDELINES:

This memorandum defines a small bridge structure and should be used as a guideline for inspection and documentation of these types of structures in Wisconsin. The definition is as follows:

**Small Bridge Structures (C-xx-xxxx)**

Small Bridge Structures require a unique structural design and have a clear opening of 20 ft or less measured along the centerline of roadway. This includes:
- Bridge like structures (i.e. Deck Girders, Flat slabs, etc.)
- Single and multi-cell box culverts (with opening 20 ft² or greater)
- Rigid frames
- Arches
- Structures without a floor slab (including arches on footings)
- Metal bolted plate structures

Structures meeting this definition will be inventoried in the Highway Structures Information System (HSI), managed by the Bureau of Structures (BOS), and inventoried / inspected under the direction of the Regional Ancillary Inspection Engineers.

**Culverts**

The Bureau of Highway Maintenance (BHM) will manage the inventory and inspection of culvert assets. These include all standard bid item pipe culverts and any pre-engineered products not meeting any of the above requirement including, but not limited to, the following:
- Culvert Pipe Corrugated (Aluminum, Polyethylene, Polypropylene, Steel, Steel Aluminum Coated, Steel Polymer Coated)
- Culvert Pipe Reinforced Concrete
- Culvert Pipe Reinforced Concrete Horizontal Elliptical
- Storm Sewer Pipe Composite
- Storm Sewer Pipe Non Reinforced Concrete
- Storm Sewer Pipe Reinforced Concrete
- Storm Sewer Pipe Reinforced Concrete Elliptical
- Storm Sewer Pipe Corrugated Polyethylene & polypropylene
- Concrete Box Culverts (with openings of less than 20 ft²)

QUESTIONS:

For information on the technical contents of this memorandum, or questions about assets that do not seem to fit any of the above categories, please contact Travis McDaniel at (608)-266-5097 or Rick Marz at (608)-266-8195.