

11/29/18

SSD: 03/23/02, 12/01/14, 02/19/16

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**PORTSMOUTH-KITTERY
16189B**

April 5, 2021

SPECIAL PROVISION**SECTION 550 -- STRUCTURAL STEEL****Item 550.3x – Bridge Mounted Brackets, Hangers, and Attachments**

This special provision neither amends nor modifies other provisions of 550 except as referenced below.

Description

1.1 This work shall consist of the design and construction support systems of brackets, hangers, and attachments that support appurtenances to existing bridges.

Materials

2.1 All material that directly attaches or clamps to an existing bridge structure shall be stainless steel type A304 or A316. The minimum material thickness for members shall be 12 gauge.

Construction Requirements

3.1 Support systems shall be designed in accordance with the current *AASHTO LRFD Bridge Design Specifications*, as amended. The support system shall meet the minimum strength requirements to carry all loads at stress levels not to exceed those allowed in the above specifications.

3.2 Support systems shall be designed to allow future maintenance and painting of the existing primary structural members and bracing members. Appurtenances shall be offset from existing members such that they allow access to the existing bridge member using tools held at a maximum of a 45-degree angle.

3.3 Bolting or welding to the existing structural steel for construction purposes will not be permitted. Bolting permanent supports to girder webs shall be subject to the approval of the Engineer.

3.4 Detailed plans showing size, type, and layout of supports, member sizes, and quality of materials to be used in the bracket, hanger, and attachment support systems shall be submitted in accordance with 105.02.

3.5 For work in the State of New Hampshire the plans shall be designed and stamped by a Licensed Professional Engineer registered in the State of New Hampshire. For work in the State of Maine the plans shall be designed and stamped by a Licensed Professional Engineer registered in the State of Maine.

Method of Measurement

4.1 Temporary structure support system shall not be measured separately.

Basis of Payment

5.1 The accepted support systems will be not be paid separately, but shall be included in the cost of the item that they support.