

Strafford BF 0177 (10) – Prefabricated Bridge Unit Structure

Structural Steel shall be shipped to Miller Construction, Inc. yard in pairs and erected on concrete waste blocks located on a level working pad. Steel Plate shims shall be utilized. Temporary diaphragms installed and the end of each girder will be anchored using chain binders.

Waste blocks shall be set on an existing exterior concrete slab at the Miller Construction, Inc. Yard. Elevations shall be attained by placing concrete on top of the waste blocks (Sketch Attached).

Pre-installation verification tests on DTI bolts will be performed by ARC at their shop when pairing the girders. Temporary diaphragms will be installed and tightened after girders are installed on temporary support at Miller Yard. DTI bolts will be tightened with electric impact guns **or calibrated torque wrench.**

The screed machine shall be supported by screed rail along the exterior girders similar to conventional construction methods. Screed rail will be removed during final finishing operations. **Once saddle pipes are removed from fresh concrete, additional concrete shall be added to the voids and reconsolidated.**

Elongation of girders has been calculated to be +/- 1/16" at each support. Girders shall not be restrained longitudinally, and will be able to slide 1/16" on the steel shim plate unrestricted.

Deck will be wet cured using **two layers of** Burlap.

Bolt holes in the diaphragm stiffener plates shall be filled with button head bolts. These bolts will be tightened in accordance with subsection 506.19.

Shipping shall occur on standard flatbed trucks on 6X6 Hardwood dunnage spaced every 6 FT.

On-Site Erection plan to be submitted at a later date.

Vermont Agency of Transportation

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Strafford BF 0177(10) - Prefabricated Bridge Unit Superstructure Approved as Noted 4-13-17 - Reviewed

CK'D BY TM, JW, NVDB, KM, RK OK'D BY JG

April 12, 2017

RESUBMIT No **Approved**

BY K. Higgins DATE 04/13/2017