

August 15, 2014

Jennifer M.V. Fitch, P.E.
Project Manager
Vermont Agency of Transportation
1 National Life Drive
Montpelier, VT 05633

Project Name: Brookfield BRF FLBR(2)
Structure Identification: VT 65 Bridge #2 over Sunset Lake

RE: Item 900.645, "Special Provision (Fiber Reinforced Polymer pontoons)"
NCR 2-2, Item 4 –Pontoon length adjustments and Foam Installation

Ms. Fitch –

T. Y. Lin International has reviewed a letter from Kenway Corporation dated August 14, 2014 in regards to NCR 2, Item 4 (subsequent pontoon length adjustments and alternate foam fabrication). Our observations and recommendations on these particular issues are noted herein.

NCR 2-1, Item 4 – Pontoon Length:

The overall lengths of pontoons 1 and 2 are slightly lower than that allowed by Project tolerance limits and Kenway is proposing modifications to pontoon length of future pontoons to create an overall floating span length that is within project tolerance. The changes to pontoon lengths to-be fabricated in an effort to control overall floating span tolerance is acceptable.

Interior Foam Fabrication Modification:

Kenway is proposing the use of polyisocyanurate foam blocks slightly smaller than the pontoon cell openings and then filling the voids with spray applied polyurethane. The method proposed by Kenway to utilize 26" and two 4.25" thick foam blocks surrounded by spray foam is found to be acceptable.

Recommendations

It is recommended that changes to the fabrication process to control pontoon length, overall span length, and foam installation methods be accepted. Please note that this letter only addresses a portion on NCR 2 – the acceptance of pontoons 1 and 2 due to deviations in adjoining surfaces is still outstanding at this time. Discussion of the adjoining surfaces will occur in a separate letter.

Please feel free to contact me with any additional questions or clarifications.

Sincerely,



Josh Olund, P.E.
Design Engineer

Attachments

cc: Resident Engineer – Sandra Schmitt
 File

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