



RICHLAND ENGINEERING LIMITED

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114059-1

July 28, 2016

Mr. Myron Pakush
District Twelve Deputy Director
Ohio Department of Transportation
5500 Transportation Boulevard
Garfield Heights, Ohio 44125-5396

Attn: Poonsak Sritalapat, Ph.D., P.E.
Project Manager

Re: CUY-10-16.13
PID No. 96986
Project 2 – Steel Repair Project
Bridge Load Rating Report

Dear Mr. Sritalapat:

Enclosed please find the following information for the Steel Repair Project on the Hope Memorial (Lorain-Carnegie Bridge):

- 3 copies (each) – Bridge Load Rating Report
- 3 CDs (each) - Electronic files of Bridge Load Rating Report

One copy and CD are sent for the District Production Office and District Planning Office. The remaining copy and CD are for forwarding to Central Office, Office of Structures, per Bridge Design Manual (BDM) Section 921.

This load rating is an amendment to TranSystems CUY-10-1613 “Load Rating Report”, dated February 2012. The report identified three components of the bridge that did not meet HS 20 Inventory or Operating levels. These components include:

1. East Abutment Concrete Deck (INV Factor = 0.59, OPP Factor = 0.98 – based on section loss to the steel reinforcement in the slab.)
2. South Exterior Floorbeam Cantilever at Panel Point 43 (INV Factor = 0.89 – based on section loss to the beam web.)
3. Gusset plate riveted connections on Truss B diagonal member U133-L132 in Span 20 (INV Factor = 0.99 – based on shear capacity of the rivets).

This Steel Repair Project addresses the three deficient components and the Bridge Load Rating updates these ratings. All ratings on the bridge now meet or exceed HS 20.

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Please contact us if you have questions or need additional information.

Very truly yours,

RICHLAND ENGINEERING LIMITED

A handwritten signature in cursive script that reads "Kent A. Kapustar".

Kent A. Kapustar, P.E.
Project Manager

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Enc.