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June 19, 2017

Mark L. Stout
Mark L. Stout Consulting
144 Hillborn Drive
Newtown, PA 18940

Re: Headquarters Bridge and Sheephole Road
Tinicum Township, Bucks Co., PA.
Our file No.: P1611

Dear Mr. Stout:

In response to the PennDOT Response Letter dated May 17, 2017, we offer the following comments and clarifications. These comments are similar to our previous comments dated September 23, 2016 and are in response to Comment #51: Response IV.a.d. on page 45 of the above referenced letter.

1. Our latest set of plans and turning simulations dated January 2017 do not show the construction of a retaining wall along the east side of Sheephole Road. The wingwall and edge of pavement radius has been adjusted to accommodate the left-hand turn movement from the bridge to Sheephole Road without encroaching into the slope.
2. Our latest set of plans and turning simulations dated January 2017 use the same Fire Truck dimension as shown in the Urban Engineers Study (41.5 feet long). This dimension was used since it was assumed to be the worst case scenario since our previous analysis used shorter truck dimensions.
3. It is our opinion and understanding that the movements analyzed by this office are the only two potential emergency movements at this location. These are turning left and right from the bridge onto Sheephole Road. All other turns, including the right-hand turn from Sheephole Road, onto the bridge would be taken using low-speed returns, and would not be required in the event of an emergency.

Should you have any questions or wish to discuss this further, please feel free to contact me.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Ted Pivovarnick", is written over a large, stylized blue scribble that extends across the signature line.

Ted Pivovarnick, PLS
Director of Surveying

Cc: Carmela Roberts, PE, CME, President, Roberts Engineering Group, LLC
Cameron Corini, EIT, Roberts Engineering Group, LLC