

County of Schenectady

Department of Engineering & Public Works

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March 16, 2012

Mr. John Poorman
Staff Director
Capital District Transportation Committee
1 Park Place, Main Floor
Albany, NY 12205

**RE: TIP Amendment – S175 (1755.37): CR103 (Pangburn Road) Bridge over the Normans Kill:
Bridge Replacement
Town of Princetown, Schenectady County**

Dear Mr. Poorman:

We are submitting the proposed amendment to the 2010-15 TIP for consideration by the Planning Committee at its next scheduled meeting.

The amendment is proposed due to the following:

- ☐ Scope Change
- ☒ Cost Change
- ☐ Schedule Change
- ☐ Other

Upon receiving federal approval to proceed with the final design, our consultant Greenman-Pedersen, Inc. retained a geotechnical engineer for the bridge foundation design. Based upon preliminary soil boring investigations they anticipated utilizing H-piles for construction. The geotechnical firm determined that H-pile construction was not technically feasible due to the soil conditions in this area and recommended the use of micro-piles. Our current \$1,798,000.00 construction estimate assumed a foundation cost of \$105,600.00. Using the NYSDOT Estimator program to determine unit pricing for the micro-pile installation, our new estimate is \$582,750.00. This is an increase of \$477,150.00 over the original estimate, which utilized the H-pile foundation.

During final design it was also determined that the bridge width would need to increase by 2 feet in order to accommodate the required stringer layout. This will increase the bridge construction costs by an additional \$46,264.00. Other miscellaneous quantity changes in the project added another \$10,942.00.

The above referenced changes will require amending the Fixed Change Payment item (5% of the total cost of construction) and the Mobilization item (4% of the total cost of construction) as well. Applying

these percentages to the additional \$534,356.00 (\$57,206.00 + \$477,150.00) adds another \$48,092.00 to the contract price for a total increase in construction costs of \$582,448.00.

Based upon discussions with NYSDOT, FHWA now requires additional inspection staff for federally funded projects which was not included in our current estimate. Our construction inspection budget will escalate from \$163,698.00 to \$257,250.00, an increase of \$93,552.00.

Totaling the increased construction inspection costs of \$93,552.00 with the increased construction costs of \$582,448.00 results in an increase to the total project cost of \$676,000.00.

We are requesting an increase to the TIP of \$0.676 million.

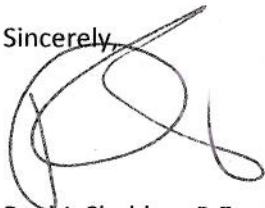
It is our intention to complete construction during summer / fall of 2012.

<u>Current TIP Data</u>				<u>Proposed TIP Data</u>			
Fund				Fund			
<u>Amount</u>	<u>Source</u>	<u>Phase</u>	<u>Year</u>	<u>Amount</u>	<u>Source</u>	<u>Phase</u>	<u>Year</u>
.100	HBRR	Prelim. Des.	08-10 (Commit'd)	.100	HBRR	Prelim. Des.	08-10
.101	HBRR	Detailed Des.	08-10 (Commit'd)	.101	HBRR	Detailed Des.	08-10
1.978	HBRR	Const. (w/ CI)	11-12	2.396	HBRR	Const. (w/o CI)	11-12
				.258	HBRR	CI	11-12

Construction funding for this project includes inspection (supervision):
__ yes ☒ no __ NA (please check one).

If you have questions or need further information, please contact me.

Sincerely,



Paul J. Sheldon, P.E.
Senior Civil Engineer

PJS/ps

Cc: Joseph Ryan, Schenectady County Director of Public Works
Steve Feeney, Schenectady County Planning Department
File