



DANIEL MCCOY
COUNTY EXECUTIVE

COUNTY OF ALBANY
DEPARTMENT OF PUBLIC WORKS
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DARRELL DUNCAN
COMMISSIONER

SCOTT DUNCAN
DEPUTY COMMISSIONER

October 28, 2015

Michael Franchini, Staff Director
Capital District Transportation Committee
One Park Place
Albany, New York 12205

RE: PIN 1757.32 Helderberg Hudson Rail Trail *A 464*

Dear Mr. Franchini:

Albany County is submitting an amendment for the above referenced project, which is on the Transportation Improvement Program (TIP). It is requested this amendment be considered by the Planning Committee at its next scheduled meeting.

The phase of the Helderberg Hudson Rail Trail consists of the construction of a shared-use path from Delaware Avenue in the Town of Bethlehem to South Pearl Street in the City of Albany (for a distance of 3.2 miles). At some point prior to the contractor being on site, during a high-water event along the Normanskill as the snow was melting, a laid up stone wall was undermined and subsequently failed, taking the adjacent slope with it. Even with the discovery of this slope failure, construction on the trail outside of this area has progressed steadily since late March of this year and is expected to be completed prior to winter shutdown. In order to completely finish the trail this slope failure needs to be repaired. Various other alternatives have been evaluated and dismissed due to cost. Specifics regarding the failure and the proposed repair are as follows:

- **Wall Failure** - The wall/slope failure is approximately 80 feet long and 30 feet high. The top of the slope failure is about 5 feet from the edge of the proposed trail. While the slope has somewhat stabilized since the initial failure, there is concern with leaving this condition unaddressed. The slope is expected to continue to erode, eventually damaging the trail and creating a safety issue causing the trail to be closed. To stabilize the slope failure, we propose to install a 12 foot tall segmental block retaining wall filled with concrete and reinforced with steel. The wall will be placed on a concrete leveling pad with rebar doweled and grouted into the bedrock.

Behind the wall a free draining aggregate will be placed. The new slope will be vegetated with topsoil and seed then reinforced with an erosion control fabric. The fabrics will ultimately biodegrade once vegetation is established. The total estimated cost for the wall including engineering and construction inspection is as follows:

- Contractor's estimated Wall cost - \$350,000
- Contingency for unknown 10% - \$35,000
- Engineering and Construction Inspections - \$38,000
- Total = \$423,000 = Say \$425,000

Enclosed please find the location plan and contractors preliminary cost estimate of the proposed wall for your review and consideration.

Although the total cost of the wall is approximately \$425,000, Albany County is requesting only \$125,000 of additional funds. There is approximately \$300,000 remaining in the contract that will not be used. The savings are a result of item underruns including \$150,000 for a field change payment. We have reviewed the items and are comfortable that there will be a savings of approximately \$300,000 as stated.

If you have any questions or comments, please contact me at (518) 765-2055.

Sincerely,



Darrell R. Duncan
Commissioner



49 Railroad Avenue, Albany, NY 12205
(518) 482-8954 • Fax (518) 482-4847

Luizzi Bros.

PETER LUIZZI & BROS. CONTRACTING, INC.
ASPHALT PAVING AND SITE WORK

October 13th, 2015

Greenman Pedersen, Inc
Attn: Edmund Snyder

Project: Helderberg Multiuse Trail #D031828

Description: Change Order – Retaining Wall approximately 960 SF at Slope Failure

Our Price to construct the Retaining Wall will be \$ 350,000.00

The price is based on using the following New Unit Prices and Contract Unit Prices.

New Unit Prices are as follows :

1. 554.41 Modular Block Wall = 960 SF x \$ 200.00 = \$ 192,000
2. 555.0501 Class A Concrete (Poured inside wall) = 125 CY x \$ 500.00 = \$ 62,500.00
3. 586.02... Drill and Grout (3' or greater) = 50 EA x 380.00 = \$ 19,000.00
4. 605.1001... Underdrain Filter Stone = 600 CY x \$ 63.00 = \$ 37,800.00

Contract Unit Prices are as follows:

1. 203.02 Unclassified Excavation and Disposal = 50 CY x \$ 24.00 = \$ 1,200.00
2. 555.09 Concrete HP for Footing = 40 CY x \$ 840.00 = \$ 33,600.00
3. 556.0202 Epoxy Coated Rebar = 2000 LBS x \$ 1.90 = \$3,800.00

Total = \$ 349,900.00

Luizzi Bros. Inc.

Anslow, William

From: Snyder, Edmund <esnyder@gpinet.com>
Sent: Friday, October 16, 2015 9:45 AM
To: Anslow, William
Cc: Bach, Ludwig
Subject: HHRT - Additional Wall Cost
Attachments: HHRT Wall Sketch and Estimate.pdf; 2015_09_09_wall failure notification letter.doc

Bill,

I took a look at what we expect or have spent on the wall to date. The anticipated inspection costs are as follows:

Frank – Assume one additional week for additional paperwork and oversight as needed - \$3,778.72

Mark – Experienced geotechnical engineer. Assume 6 weeks inspection per Luizzi - \$25,357.20

DNSC – Concrete testing and mileage – Assume \$3,000

The total inspection cost is assumed to be \$32,135.92

Assume Lou and or I will need to answer questions or provide information at some point. Assume 2 days - \$2,500

Andy Bells cost was \$2,000 to complete the calculations, detail, attend meeting, etc.

Looking at other costs we spent to date and have not charged.

Paul Bailey our geotechnical engineer spent a little over 2 days total since May on wall designs, calculations - \$1,040.

This comes to a total of \$37,675.92 = Say \$38,000

I assume you are going to submit a letter to Mike requesting funds and we have attached a draft for your use.

Let us know if you have any questions.

Best Regards,

Ed



Edmund W. Snyder III, P.E.
Project Manager

Greenman-Pedersen, Inc.
Engineering and Construction Services

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