

Project: Eugene Street Parking Deck & Mental Health Clinic Renovation

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Date: August 7, 2019

To: Carrie Reeves, City of Greensboro

Carrie,

Last week, we were copied on an email from Richard Mosher that stated:

- We need a written description of the proposed wall reinforcement from the design engineer. A sketch or drawing would be great but is not required. The description does need to be detailed enough that we know generally what is being done to reinforce the wall and how it will look after the work has been completed. Must include a statement that the work will not result in a permanent loss of any of the current parking spaces. This is needed to verify that the current parking spaces will continue to be available after construction and that the retaining wall won't be an eyesore afterwards.

In response to the above request, please review the following:

Currently, the retaining wall repair designer is preparing a cost proposal to perform the design and construction of the retaining wall design. The retaining wall design/builder (Hayward Baker) intends to install drilled and grouted bar anchors through cored holes in the existing retaining wall. After the anchors are installed an oversized bearing plate (or steel channel as shown in the picture below) will be mounted to the wall to distribute the anchor load. Each anchor will be tested and post-tensioned to the required design load and the exposed hardware will be epoxy painted for corrosion protection.

The design is in process, which will determine the mounting hardware plate sizes, thickness and dimensions.



Photo No. 1 - Sample Cores Drilled into Wall



Photo No. 1 - Sample Wall Plate



Photo No. 3 - Sample Wall Plate (Varies Based on Design)

Photo No. 4 - Sample Reinforced Concrete Wall

Basically, after the retaining wall repair, the existing concrete wall will look like it does now, but it will have some type of painted wall plate, anchor bolt and nut similar to the Photo No. 4. If any other work is required by the City of Greensboro, please let us know what you want. All parking spaces will remain as is in the current parking lot.

Prepared by R. Douglas Jones (Senior Project Manager), Samet Corporation