

Marble Hill Green Terramesh® BRONX, NY, USA

Products: Green Terramesh®, MacMat® N20, Spenax Rings

Problem

The New York Metropolitan Transportation Authority (MTA) replaced a concrete wall along 225th Street in Bronx, New York. Due to the approximate 1:1 slope at the base of the wall, the footing was left exposed and the engineer was worried about undermining and upheaval due to frost during the winter months. Also, the MTA did not want to disturb any more of the existing slope which leads to the Metro North railway than was necessary.

Solution

Dewberry-Goodkind of New York City along with Maccaferri designed an MSE wall using our Green Terramesh® with a 45° face as a frost protection for the wall's footing. The Green Terramesh® also provides a transition from the base of the concrete retaining to the existing steep slope leading to the railway below. NOTE: Drainage pipes easily incorporated in Green Terramesh® wall.

Best Features of the Structure

The best features of the structure were:

- preassembled unit
- fast installation to minimize traffic disturbance
- engineered solution

Describe Reasons for this Solution

It was the best option to blend in with the existing slope and offer frost protection for the concrete footing.

Client:

The New York Metropolitan Authority/Metro North Railroad

Main contractor:

Tucci Equipment Rental Corp.

Engineer:

Dewberry-Goodkind

Products used:

58-1.9x6.5 45° Green Terramesh®
3 rolls MacMat® N20
2 boxes Spenax rings

Date of construction:

7/2008



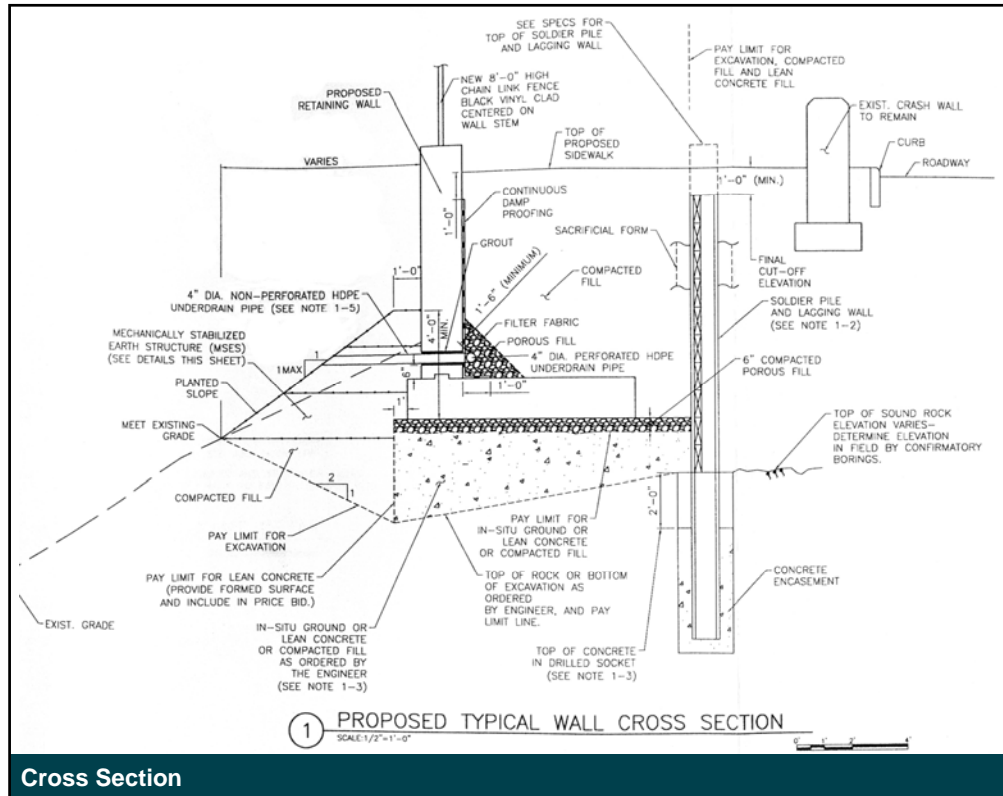
Green Terramesh® being installed at the base of the exposed footing.



Green Terramesh® being filled with soil.



Completed Green Terramesh® waiting for hydroseeding.



Cross Section