

**Project:**  
Glacier Vista  
Plymouth, MN

**Wall Contractor:**  
Precision Hardscapes

**Product:**  
LondonBoulder

**Manufacturer:**  
JME Companies  
Monticello, MN

**Wall Design Engineer:**  
Vickery Engineering &  
Construction

**Wall Dimensions:**  
4,320 sq ft  
19 1/2 ft tall x 360 ft long

**The Problem:**

A wall failure is never desired. In 2019, a 20-foot tall small block retaining wall at the Glacier Vista development in Plymouth, Minnesota, failed. The failure was mostly caused by excess water being directed at the back of the wall, causing excess lateral earth pressure against the wall face. The major challenge to the repair was the proximity of the existing houses above the wall. Due to the wall height and the slope above the wall, excavating the existing wall and putting in a geosynthetic reinforced (geogrid) retaining wall was not possible, as it would undermine the existing house deck foundations.

**The Challenge:**

The Twinhomes of Glacier Vista Association turned to Vickery Engineering and Consulting (VEC) to come up with a solution. Time was of the essence because winter was right around the corner. The method of wall repair recommended by VEC was to leave the rest of the existing wall in place and construct a new wall in front of the existing, failing, wall. After some debate with the City of Plymouth on wall location, VEC prepared a design using LondonBoulder to provide the earth retention solution needed.



**Project:**  
Glacier Vista  
Plymouth, MN

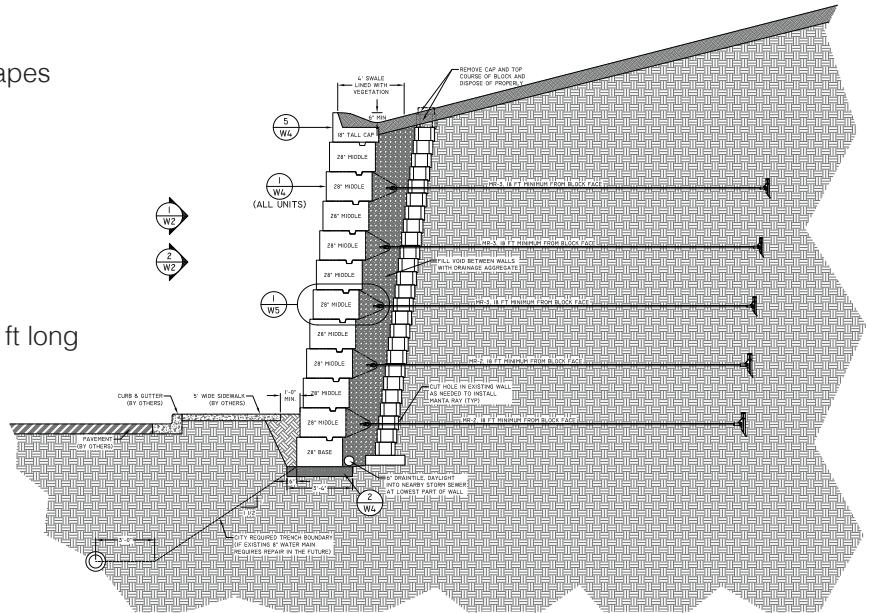
**Wall Contractor:**  
Precision Hardscapes

**Product:**  
LondonBoulder

**Manufacturer:**  
JME Companies  
Monticello, MN

**Wall Design Engineer:**  
Vickery Engineering &  
Construction

**Wall Dimensions:**  
4,320 sq ft  
19 1/2 ft tall x 360 ft long



**The Solution:**

Manta Ray earth anchors were driven through the existing wall and, with the use of horizontal pipes and geogrid to attach the wall face, a new LondonBoulder wall was constructed in front of the existing wall. LondonBoulder was chosen because of the durability and the speediness of placement of the block. Precision Hardscapes of Braham, Minnesota did the construction in November of 2019, and within several weeks, the new wall was in place, and final grading was performed right before the first snow fell. Through the rapidity and ease of the installation of the LondonBoulder units, the new wall will provide stability to the slope and peace of mind to the residents for years to come.



**DURING**



**AFTER**