

Product: LondonBoulder LB42 Blocks and LondonBoulder LB28 Blocks

Wall Design Engineer: Vickery Engineering & Consulting, Minnetonka, MN

Site/Wall Contractor: Supreme Lawn & Landscaping, Waite Park, MN

Manufacturer: JME Companies, Monticello, MN

Site/Wall Contractor: Quarry Creek Nursery, St. Cloud, MN

Wall Dimensions: 8ft tall x 180ft long

The Problem:

Salt used on the roadway above the wall ended up washing into the area behind the wall and subsequently exited through the face of the wall.

Small segmental retaining wall blocks cannot withstand the freeze/thaw cycles that salt creates.



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The Solution:

LondonBoulder Big Blocks are a wet cast produced retaining wall block. The mix design in the production of LondonBoulder Big Blocks includes an air entraining agent. This air entraining agent creates bubbles in the concrete. These bubbles reduce surface tension between water and solids in the mix which gives the LondonBoulder Big Blocks durability to withstand the freeze/thaw cycle that salt creates.

Also, because the original small block wall was built before the road, the geogrid that was required for a small block wall of this height was laid out under the current road. Vickery Engineering used a wall design using LondonBoulder Big Block that required no geogrid reinforcement so that the roadway above the wall remained undisturbed for construction.

