



Gravity Extender Design Chosen for Data Center Facility

This MagnumStone gravity retaining wall with extender units was instrumental to reinforcing land for a new data center and its infrastructure in Chantilly, VA, USA.

The industrial property required an 8,227 sq. ft. (764 sq. m.) retaining wall to raise the existing grade and extend usable land. This maximized development potential, supported heavy loading and protected utilities behind the wall without geogrid reinforcement. The wall contractor, [Roche Brothers](#), value engineered the wall and engaged with [Earth Retention](#)'s engineering team on its design.

The gravity wall replaced an originally specified cast-in-place wall, to save time and labor, effectively streamlining installation. Their versatility transitioned initial angled wall corners to smooth flowing curves, peaking at maximum heights of 19 ft. (5.8 m.). The MagnumStone blocks and interlocking extenders were produced by the experts at [York Building Products](#).

MagnumStone's hollow core blocks offer superior drainage, and its gravity extenders adjust excavation depths in 2 ft. (0.61 m.) lengths for greater design flexibility. Bypassing time-consuming cast-in-place logistics (forms, staging, curing concrete), MagnumStone gravity extenders minimized costs, solved design challenges and expedited construction time.

Total Blocks	8,227 sq. ft. (764 sq. m.)
Highest Point of the Wall	19 ft. (5.8 m.)
Purpose of MagnumStone Application:	<u>Extend & reinforce industrial property infrastructure</u>
MagnumStone Manufacturer	<u>York Building Products</u>
Wall Designer	<u>Earth Retention</u>
Retaining Wall Installer	<u>Roche Brothers Inc.</u>

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Contact our MagnumStone experts for more details.

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