

RIVER HILL RETAIL

MICROPILE UNDERPINNING

PROJECT DESCRIPTION:

Project Date: April 2013

Project Name: River Hill Retail

Engineer of Record: Magnum-Geo Solutions
Dwyer Companies Design Build

Project Type: Micropile Underpinning

Project Location: Ashland, KY

Scope: 42 Underpinning Micropiles, 19
Tiebacks with custom concrete
haunch

An existing retail center had experienced 3"-4" of settlement over a 300' area around the backside of the building. The soils investigation determined that the underlying fills extended to 50' depths and consisted of rock fragments, weathered shale, and cobble. To bypass those zones, Dwyer Companies decides to pre-drill all underpinning piles into bedrock at 60' depths and reinforce the pile with steel casing and high strength grout. To eliminate underpinning piles being installed on the interior walls due to eccentricity issues, Magnum Geo designed a custom concrete haunch with tie backs in between each underpinning pile to account for the eccentricity loads. All piles and tiebacks were installed along the outside of the building as tenants resumed daily business.




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