Renovations to the Rickman House: The Use of Grouting to Address Design and Construction Challenges

By

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16:00 – 17:00, Room 2355 GG Brown

Summary
During the design phase for the Rickman House Renovations project, several geotechnical challenges were identified by SME. These challenges included potential differential settlements between proposed and existing foundations at the basement level of the building, support of existing foundations during excavation for a new elevator pit, potential differential settlements between the mat foundation used to support the new elevator tower and existing adjacent foundations, and the presence of groundwater located several feet above the design bearing level for the new elevator pit mat. SME developed a grouting program to address these challenges. The program included permeation grouting using micro-fine cement. The presentation will outline the proposed improvements, describe the geotechnical conditions at the site, and illustrate how grouting was successful in addressing the challenges identified during the design and evaluation phase.

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