

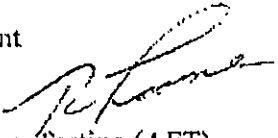


AMERICAN
ENGINEERING
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• GEOTECHNICAL
• MATERIALS
• ENVIRONMENTAL

MEMO

To: Bryan Gonzalez
Century Development

From: Robert Temme, PE 
American Engineering Testing (AET)

Date: June 29, 2007

Subj: Preliminary Geotechnical Recommendations
Proposed Capitol Townhouses
Philadelphia Street
Rapid City, South Dakota
AET No. 18-02538

The following recommendations are based on the results of our field data and the project information provided. The lab testing is in progress and is anticipated to be complete within approximately one week. The final report will then be prepared and submitted. At this time we anticipate the final report will be available around July 16th. If you have any questions or need any additional information, please feel free to contact our office at (605) 388-0029.

Eight test borings were drilled across the project site on June 18 and 19, 2007. Each boring was drilled to a final depth of 25 feet below current grades. In general, the soils encountered, consisted of approximately 2 to 11 feet overlying natural soils. Groundwater was encountered in five of the eight borings at depths ranging from 7 to 24 ½ feet. These five borings were located along the southern and east sides of the site.

The fill soils consist primarily of dry to moist, sandy lean clay with gravel. The underlying natural soils consist primarily of dry to moist, loose to very dense, silty sand with some sandy lean clay and sandy gravel layers. Larger cobbles and boulder sized rock was noted within the lower elevations of several of the borings. Hard shale was encountered in two of the borings at depths of 19 and 23 feet.

At this time it is our opinion the site is suitable for the proposed construction. Site preparation will likely require the excavation and reuse of the fill soils, cleaned of all over sized rock. Scarification, moisture conditioning and recompacted of exposed subgrade will be required prior to reuse and compaction of the site fills and soils. Once grading has been completed to the required grades, we anticipate conventional spread footing foundations and concrete slab-on-grade construction can be used for the proposed town homes.