

December 8, 2008
Project No. 401337001

Las Positas Community College
3033 Collier Canyon Road Bldg 100A
Livermore, CA 94533
Attn: Ms. Karen Powell

Subject: Supplemental Letter to Child Development Center Geotechnical Report
(401337001 dated November 1, 2007)

Dear Karen:

At your request, presented below are clarification comments in response to questions submitted by prospective bidders for the Child Development Center at Las Positas Community College. This letter supplements the geotechnical report presented in our report dated November 1, 2007.

Question:: Section 6.3.1 soil report said existing top soil from ground surface is to depths of up to 4 feet. Does all the top soil need to be removed?

Response: Expansive soils (including black topsoil) below structures should be removed to a depth of 3 feet below the bottom of slab, or to the depth of topsoil encountered, whichever is deeper. Removal of expansive soils, including topsoil, below exterior flatwork and pavement areas should extend to 2 feet below the bottom of slab or top of planned subgrade for pavements. Removals shall extend a distance beyond the perimeter of the slabs and footings equivalent to the depth of removal below the bearing surface. Removals should extend 3 feet outside the building footprint for 3 feet of removal below slabs.

By following the recommendations stated above, all of the topsoil below structures will be removed. At exterior flatwork and pavement areas where some topsoil may not be completely removed, the Geotechnical Engineer should assess if additional organic-laden material is present and should be removed and stockpiled for landscaping use. In general, the upper 18 inches of the topsoil (containing some organics) is suitable for stockpiling for later use in landscaping purposes.

Question: Need clear directions for depth of sub-excavation and replacement with non-expansive soil or lime treated material under building pad, footings, site concrete, masonry screening wall footings and trash enclosure wall footings, etc.

Response: Building Pads, Masonry Screening Wall and Trash Enclosure Wall and Pad are considered structures and should follow the recommendations stated above for structures. This removal should extend 3 feet beyond both edges of the footing for the Masonry Wall and 3 feet beyond the edge of the footing for the Trash Enclosure Wall; Site Concrete - 2 feet below exterior flatwork and should extend 2 feet beyond the flatwork limits. With this recommended over-excavation and replacement with engineered fill, the footings will be bearing on non-expansive

material; therefore, no specific over-excavation recommendations are provided for the footings. Based on our understanding of information provided by the project architect, lime treatment is not going to be presented as an option for the CDC project.

Question: The plans specify that non-expansive fill is to be used under certain structural areas, will the required non-expansive fill be available from on-site sources?

Response: To our knowledge, non-expansive borrow materials are not available on the Las Positas campus.

Question: Expansive soil is to be removed 3' below bottom of structural slabs & 2' at exterior slabs per soils report 9.1.2. Is this correct?

Response: Yes, this is correct. Please also consider that removal is to extend beyond the edge of structural and exterior slabs the same distance as the depth of removal.

Non-expansive Import Material recommendations (Select Structural Fill) are provided in Section 9.1.7, on Table 8 - Recommended Material Requirements. Materials meeting these requirements can be obtained from various quarries in the project area. Hanson Permanente @ 925.244.6500, located at 3000 Busch Road in Pleasanton, has a number of material sources that the contractors should be familiar with.

Sincerely,



Terence K. Wang, P.E., G.E.
Principal Engineer

MRC/TKW/csj

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