

SECTION 4. LIMITATIONS

The analyses and recommendations submitted herein are based in part upon information obtained from the field borings and bulk samples. Variations of subsurface conditions between and beyond the field borings and bulk samples may occur, and the nature and extent of these variations may not become evident until construction is underway. If variations then appear evident, Geolabs should be contacted to re-evaluate the recommendations presented herein.

The field exploration locations are approximate, having been estimated by pacing and measuring from visible features noted on the Topographic Survey Maps transmitted by Wesley R. Segawa & Associates, Inc. on February 6, 2014. Elevations of the field data points were interpolated from the contour lines and spot elevations shown on the same plan. The boring locations and elevations should be considered accurate only to the degree implied by the methods used.

The stratification lines shown on the graphic representations of the borings depict the approximate boundaries between soil/rock types and, as such, may denote a gradual transition. Water level data from the borings were measured at the times shown on the graphic representations and/or presented in the text herein. These data have been reviewed and interpretations made to formulate this report. However, it must be noted that fluctuation may occur due to seasonal precipitation, surface water runoff, and other factors.

This report has been prepared for the exclusive use of Wesley R. Segawa & Associates, Inc., their client, State of Hawaii – Department of Transportation, Highways Division, and other project subconsultants for specific application to the *Rehabilitation of Pali Highway, Waokanaka Street to Kamehameha Highway* project in general accordance with geotechnical engineering principles and practices. No warranty is expressed or implied.

This report has been prepared solely for the purpose of assisting the design engineer in the preparation of design drawings related to the pavements for the proposed project only. Therefore, this report may not contain sufficient data, or the

proper information, to serve as a basis for construction cost estimates. A contractor wishing to bid on this project is urged to retain a competent geotechnical engineer to assist in the interpretation of this report and/or in the performance of additional site-specific exploration for bid estimating purposes.

The owner/client should be aware that unanticipated soil and/or rock conditions are commonly encountered. Unforeseen subsurface conditions, such as soft deposits, hard layers, cavities, or perched groundwater, may occur in localized areas and may require additional probing or corrections in the field (which may result in construction delays) to attain a properly constructed project. Therefore, a sufficient contingency fund is recommended to accommodate these possible extra costs.

This geotechnical engineering exploration conducted at the project site was not intended to investigate the potential presence of hazardous materials existing at the site. It should be noted that the equipment, techniques, and personnel used to conduct a geo-environmental exploration differ substantially from those applied in geotechnical engineering.

END OF LIMITATIONS