SECTION 4. LIMITATIONS

The analyses and recommendations submitted herein are based, in part, upon information obtained from our test boring. Variations of the subsurface conditions beyond the test boring may occur and the nature and extent of these variations may not become evident until construction is underway. If variations then appear evident, it will be necessary to re-evaluate the recommendations presented herein.

The test boring location indicated herein is approximate, having been taped from visible features shown on the Signal Plan transmitted by Engineering Concepts, Inc. on January 31, 2019. The elevation of the boring was interpolated from the contour lines and spot elevations shown on the same plan. The field boring location and elevation should be considered accurate only to the degree implied by the methods used.

The stratification breaks represented on the Log of Boring show the approximate boundaries between soil types and, as such, may denote a gradual transition. Water level data from the boring were measured at the times shown on the graphic representations and/or presented in the text of this report. The data has been reviewed and interpretations made in the formulation of this report. However, it must be noted that fluctuation may occur due to variation in seasonal rainfall and other factors.

This report has been prepared for the exclusive use of Engineering Concepts, Inc. and their consultants for specific application to the Kalanianaole Highway and Kalaniiki Street Intersection for the Traffic Signal Modernization project in accordance with generally accepted geotechnical engineering principles and practices. No warranty is expressed or implied.

This report has been prepared solely for the purpose of assisting the client/owner in the design of the traffic signal pole foundations for the project. Therefore, this report may not contain sufficient data or the proper information to serve as the basis for construction cost estimates nor for bidding purposes. A contractor wishing to bid on this project should 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 conditions are commonly encountered. Unforeseen subsurface conditions, such as perched groundwater, soft deposits, or hard layers may occur in localized areas and may require additional 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 project 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