

CRAIG LUKE DIRECT TESTIMONY

PRESENTATION HEARING

Q Please state your name, place of employment, and position.

A Craig Luke, P.E., Vice President, Senior Project Manager at R.M. Towill Corporation.

Q How long have you been in this position?

A 5 years

Q Please describe your educational background and experience.

A Please see my resume, which is marked as an exhibit in this proceeding.

Q What has R.M. Towill Corporation been retained to do for this Project?

A Hunt Communities Hawaii, LLC retained R.M. Towill Corporation to prepare a Preliminary Engineering Report (PER) to determine and confirm the availability of utility infrastructure to accommodate the proposed VA Clinic, including sewer, water, drainage, fire safety, electrical, telecommunication, and cable. The PER is attached as Appendix E to the Project Application.

Q Please describe the VA Clinic site condition and access.

A The VA Clinic will be an 88,675 square-foot state-of-the-art multi-specialty veterans' outpatient clinic located on a portion of Tax Map Key (TMK) 9-1-013: 002 (Parcel 1), at the southeast corner of the Kamokila Boulevard extension and Franklin D. Roosevelt Avenue in Kalaeloa.

The site was previously used as US Navy family housing. It was cleared many years ago and is currently undeveloped land that is generally covered with weeds, grass, trees, and a few remanent concrete slabs.

There will be two (2) driveway entrances to the VA Clinic site, including one (1) driveway located at the northeast corner of the site off Roosevelt Avenue, and the main driveway accessed by a shared access easement off of the future Kamokila Boulevard to the west. As part of the Kalaeloa Backbone Roadway Improvements project, Kamokila Boulevard will be extended along the west side of the site and will connect to Boxer Road to the south. Boxer Road will be relocated south and will transition into the existing Boxer Road past Copahoe Avenue, which will also be reconstructed and extended. See Proposed Site Plan attached as Figure 6 to the PER.

Q Please summarize the Preliminary Engineering Report's conclusions with respect to the VA Clinic.

A The infrastructure requirements for the proposed VA Clinic have been identified and thoroughly analyzed. The existing infrastructure and proposed infrastructure improvements by the Kalaeloa Backbone Roadway Improvements project will be able to meet the infrastructure needs for the proposed VA Clinic.

Sanitary Sewer System

Existing sewer system composed of sewer lines and manholes located within the project site will be demolished and removed.

The proposed sanitary sewer system will be designed in accordance with the Hawaii Water Service Company (HWSC) and the City and County of Honolulu, Department of Environmental Services (ENV) Wastewater System Design Standards, July 2017. Proposed sewer flow from the future VA Clinic will be collected via an onsite gravity sewer system and discharged into an 8-inch sewer line located at the south boundary of the project site. The offsite (outside project boundary) sewer system will be built under the Kalaeloa Backbone Roadway Improvements project which has been fully approved by the DPP Wastewater and HWSC for construction. The sewer will eventually flow to the City's Honouliuli Sewage Treatment Plan for processing.

A Sewer Connection Application (SCA) has been approved by the City and County of Honolulu, Department of Planning and Permitting. A copy of the SCA is included as Appendix B to the PER. In addition, HWSC which owns and operates the sewer collection system has approved the sewer system design for Kalaeloa Backbone Roadway Improvements project.

Water System

Existing domestic and fire protection water service are provided by the HWSC. The source of the water system is a well located above Farrington Highway. Water is pumped into two (2)- one (1) million gallon storage tanks and gravity flowed via 24, 18, 16, 12, 8-inch water lines to the proposed VA site. This water system previously served the entire Barbers Point Naval Station Operations.

The existing water system has been maintained and upgraded in the past few years to ensure reliability of the water system to users with Kalaeloa.

Currently, 8 and 6-inch water lines are located within the roadways surrounding the proposed VA Clinic.

The proposed water system has been designed and approved by Hawaii Water Service Company and meets their water system standard as well as the Honolulu the Board of Water Supply (BWS) *Water System Standards (2002)*.

The approved water system design will upgrade water main sizes around the proposed VA site to meet HWSC and BWS standards. As part of the Kalaeloa Backbone Roadway Improvements project, the watermains sizes will be increased to 16-inch and 12inch water mains to meet fire protection requirements. The proposed water system will include water meters, backflow preventors, water mains, laterals, and fire hydrants. The proposed water system layout is shown in Figure 10 of the PER.

HWSC and the City DPP have both approved sewer discharge into their system from the proposed VA facility. See Appendix F to the Project Application.

Drainage / Storm Water Quality

Existing Drainage System

Off-site runoff is currently conveyed away from the proposed VA site via ditches and swales located above the proposed VA site. The proposed VA site will not be impacted by runoff from a 100 year storm event.

Onsite runoff is collected by a localized drainage system which collections minimal runoff via drywells and allow runoff to sheet flow toward the ocean.

Proposed Water Quality/Drainage System.

The VA Clinic will be designed to direct storm water runoff away from the proposed VA facility toward open grassed or paved areas within the project site. The drainage system for the VA Clinic will consist of roof downspouts, grassed swales, drain inlets and underground pipes to capture and convey runoff.

Runoff will be collected within the localized drainage system and discharged into a retention basin located immediately southwest of the proposed project site. The basin will allow the runoff to percolate back into the ground. During large storm events, runoff will over top the retention basin and flow into a Drainage Channel located just west of the retention basin.

The City DPP has already approved the overall VA storm drainage and water quality as part of the Kalaeloa Backbone Roadway Improvements project on April 21, 2021. The localized storm drainage and water quality will be submitted to the City DPP for approval. The localized drainage system will meet the City and County Honolulu Department of Planning and Permitting 2017 *Storm Drainage Standards*.

Fire Safety

Honolulu Fire Department reviewed the conceptual fire safety plan for the VA Clinic and has confirmed the adequacy of the fire safety plan. See Appendix F to the Project Application.

Electrical System

Hunt Communities Hawaii, LLC's Kalaeloa Parcel 1 Off-site Infrastructure Project, which includes underground Hawaiian Electric (HECO), Hawaiian Telcom (HT), and Spectrum duct systems connected to the stub-outs provided under the City and County of Honolulu's (City) Kamokila Boulevard Extension project, has been designed and is currently under review by the City, HECO, HT, and Spectrum. The Infrastructure Project also includes a City-standard street lighting system along all the roadways proposed for future City dedication.

A HECO service request for the VA Clinic was submitted on November 18, 2019. HECO has acknowledged the Project, and confirmed that it will provide service to the VA Clinic. See Appendix C to the PER.

Telecommunication

Formal approval by HT and Spectrum of both the Kalaeloa Parcel 1 Off-site Infrastructure Project and the VA Clinic Site drawing is being sought. Upon completion and acceptance of the infrastructure and, pending service requests from the VA Clinic Administration, HT will provide service. See Appendix C to the PER.

Cable

Spectrum has acknowledged the Project, and confirmed that it will provide cable service to the VA Clinic. See Appendix C to the PER.

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