

Honolulu Transit (Farrington)

Honolulu, HI

Project Description

The Honolulu Rail Transit Project is a 20-mile elevated rail line that connects West O`ahu beginning at East Kawith downtown Honolulu and Ala Moana Center. It provides residents with a fast, reliable and affordable transportation alternative. All 21 stations are fully compliant with the Americans with Disabilities Act (ADA) having high-level platforms (same level as the vehicle floor) stairs, escalators and elevators featured at each station.

Owner

HART Honolulu Authority for Rapid Transportation

Contractor

Kiewit

Designer

Figg

Our Role

McNary Bergeron & Associates provided construction engineering support to the contractor including:

- Independent design review of the precast span-by-span (SBS) and cast-in-place (CIP) balanced cantilever structures.
- Geometry control and monitoring for the CIP balanced cantilever structure.
- Analysis and review of the SBS construction loads.
- Design of temporary supports for construction of the CIP balanced cantilever structure.
- Independent review of the CIP balanced cantilever form travelers

Total Contract Value

\$668 million

Timeline

2011-2015

Construction Method and Specifications

- 274 SBS precast simple spans erected with overhead gantry
- 65' to 145' span length
- 5 span, 4 pier variable depth CIP balanced cantilever superstructure cast with form-travelers (two integral twin-walled piers and two piers on bearings)

