

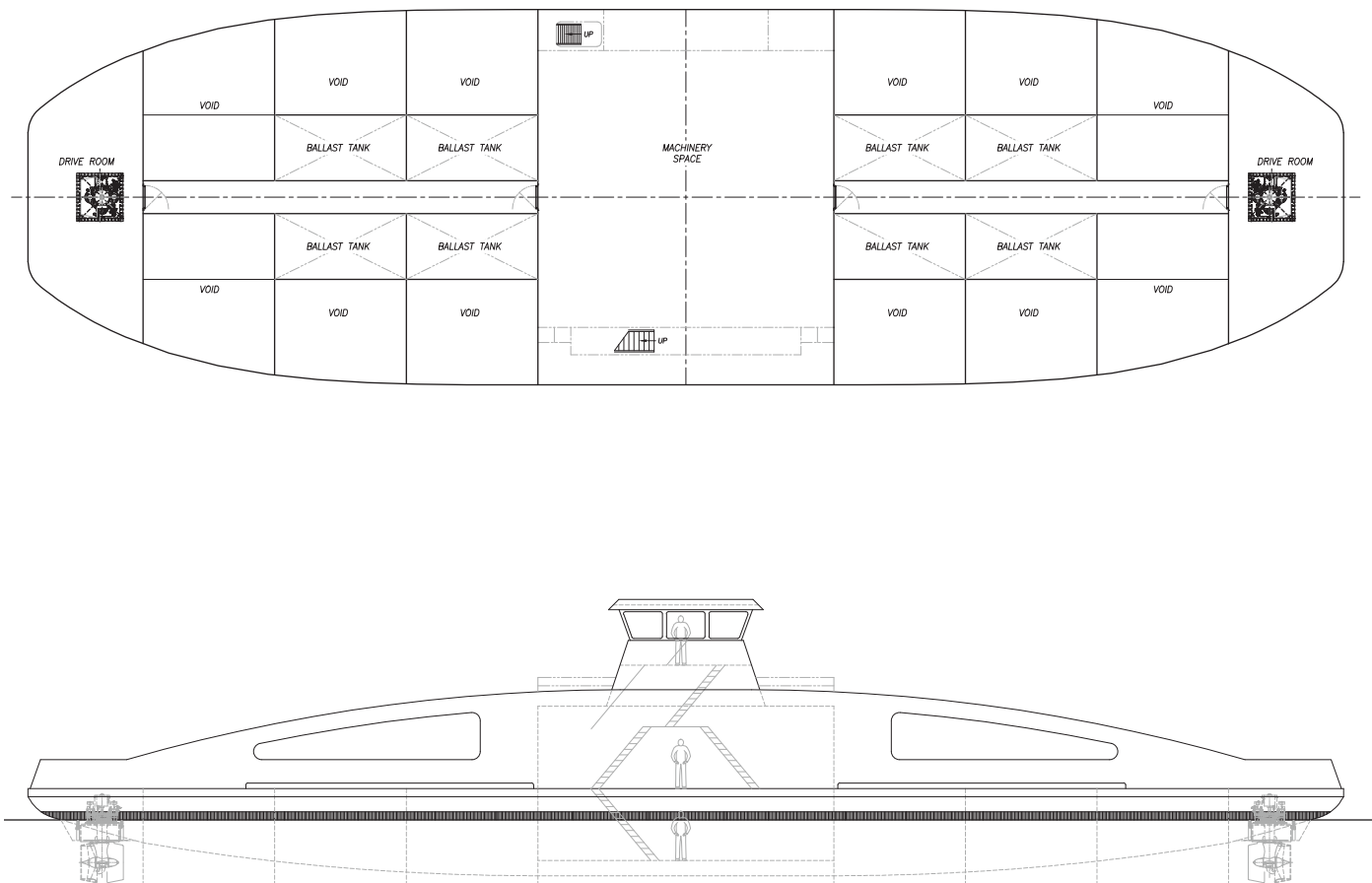


PVF-16046

160' Electric-Hybrid Ferry

Crowley is providing detail design engineering services for the development of a battery powered, 160-ft electric ferry. The ferry will operate in southern California, and will provide connection service for maintenance and construction vehicles between several docks located with several miles of each other. The ferry will be totally battery powered, with only an emergency generator aboard. Rapid charging stations will be available at each of the docks and will provide power for charging the batteries during the day. Full charge will be supplied overnight, but there will be sufficient battery power aboard ship for a full day's operations. The ferry is expected to be funded this year, and in operation early 2020.

While this particular ferry is designed for a private, commercial operation, the design can easily be revised to suit any small ferry operations, with the capability to carry up to 300 passengers and a mix of private cars. Sufficient batteries can be installed for longer runs. Options for wireless charging can also be designed into the system, allowing automatic charging of vessels without requiring an attendant to manage physical connections, and capable of taking into account large tidal swings.



Vessel Specifications

Overall Dimensions

Length	160'-0" (48.7 m)	Fresh Water	500 gal (1.89 m3)
Breadth	45'-8" (13.9 m)	Sewage Hold	500 gal (1.89 m3)
Loaded Draft	8'-0" (2.4 m)	Capacity	400,000 lbs of misc. vehicles
Speed	10 knots	Gross Tonnage	under 200 GRT US Regulatory
Power Generators	2 x 234 kW-hr banks 1 x 25 kW (emergency)	Key Features	Azimuthing drive units, one each end Capacity for 5 semi-trailer trucks
Prop Machinery	2 x Schottel SCD200SRP		

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