Thoma-Sea launches 168' Great Lakes ferry

homa-Sea Marine Contractors, Houma, La., recently built and launched the 168'×45' passenger, truck and automobile ferry Carmen Lee.

The ferry, designed by New Orleansbased TAI Engineers Inc., was built for a partnership between the Lorain Port Authority (LPA) and Kelleys Island Ferry Boat Line. It can hold 149 passengers and 36 trucks and automobiles. The Carmen Lee will operate on Lake Erie providing service between Marblehead, Ohio, and Kelleys Island, Ohio. It will begin service in early 2022.

The double-ended ferry is designed to operate on lakes, bays and sounds. The vessel has a steel hull and deckhouse design and is compliant with Coast Guard Subchapter T regulations. The main deck is high-strength AH 36 steel to withstand tire loadings from up to 36 cars or equipment trucks in four



lanes

Main propulsion comes from four Caterpillar C18 propulsion engines, producing 470 hp at 1,800 rpm, each driving Schottel SRP 150FP Z-drives using Twin Disc HPTO hydraulic clutches. The propulsion package allows precision maneuvering in challenging Lake Erie approaches during harsh weather and provides propulsion redundancy.

Ship's service power comes from two Cummins Onan 40-kW marine gensets. Kelleys Island Ferry Boat Line has a similar ferry called the *Shirley Irene* in operation on this route.

TAI was selected to provide naval architecture and marine engineering services and also provided professional support for the competitive procurement of a shipyard to build the new ferry. TAI's work included drawing review, construction inspection, as well as test and trial supervision of the boat during its construction. The Carmen Lee has been built to conform (but not certified) to American Bureau of Shipping (ABS) standards and is Coast Guard inspected.