



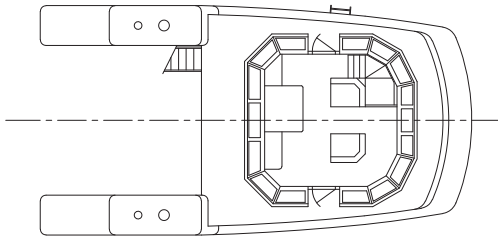
THS-08430

84' x 30' Z-Drive Tug

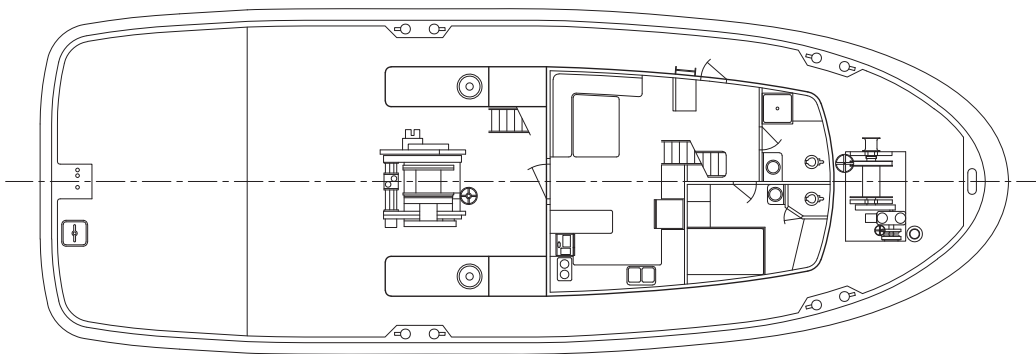
This design was developed to provide a maneuverable, powerful, yet smaller ship-assist tug to reduce the costs of building and operating a larger harbor tug. Equipped with Caterpillar engines driving Ulstein Z-drives, the tug can operate as an assist tug for docking and handling barges and ships. Large hatches are provided in the main deck and deck house top to allow for removal of equipment from the engine room easily. Full 360-degree visibility from the helm is assured with windows all around, and controls are located on consoles port and starboard of the centerline helm position. An escort hawser winch is installed forward, and an H-bitt and hydraulic capstan are installed for aft towing. Berths for 5 crew are installed in 3 comfortable staterooms, though the tug may be operated with a crew of two persons in certain operations.

Overall Dimensions

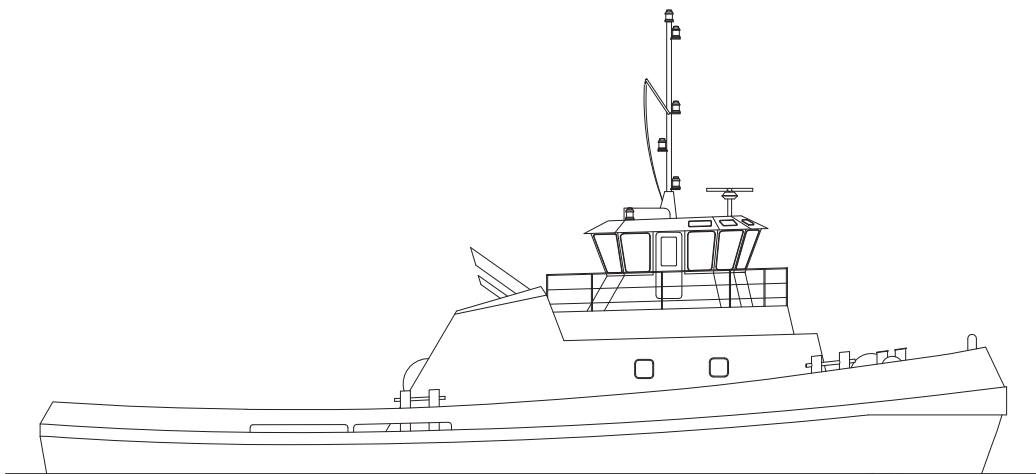
Length Overall.....	84'	Main Engine	CAT 3512 x 2
Molded Breadth	30'	Rated 1280 BHP @ 1600 RPM Each	
Molded Depth	15'-3"	Z-Drive.....	2 x Ultstein
Draft (Full Load).....	12'	Fuel Oil.....	40,625 gal
Displacement (Full Load)	400 ST	Fresh Water	1,045 gal
Design Speed	12 knots	SW Ballast	10,860 gal



BRIDGE DECK



MAIN DECK



OUTBOARD PROFILE