

OUTBOARD PROFILE

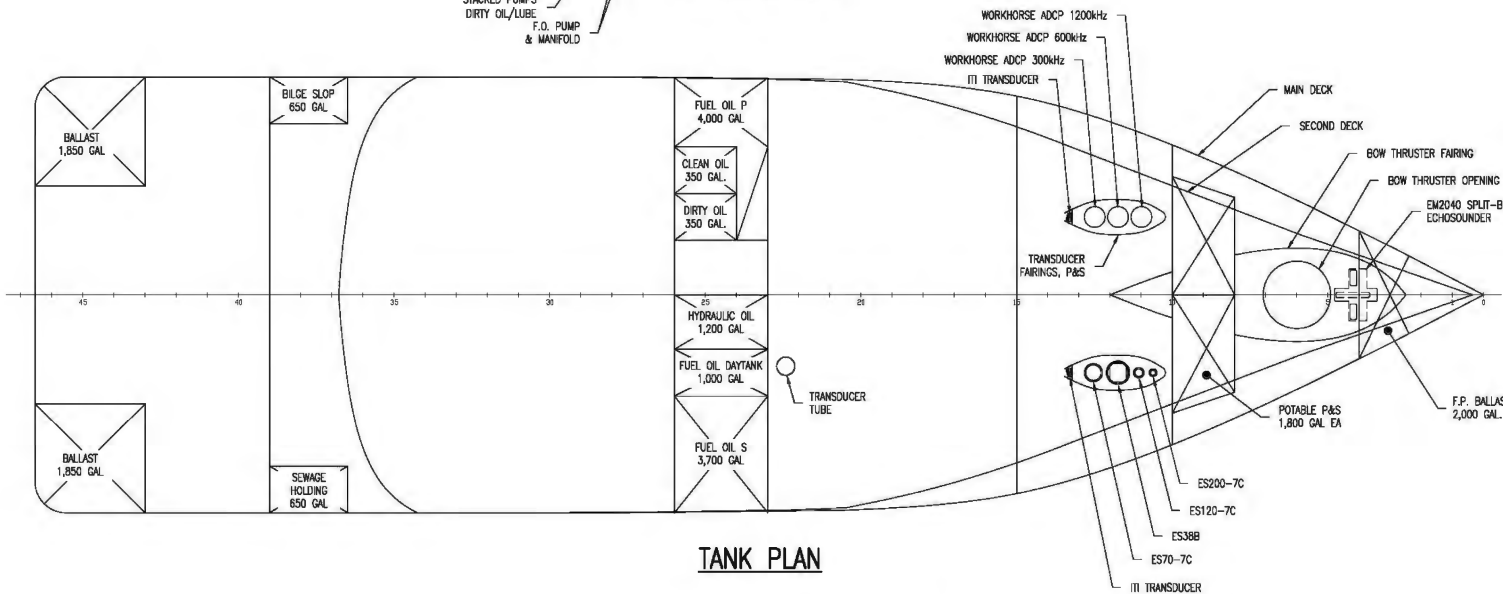
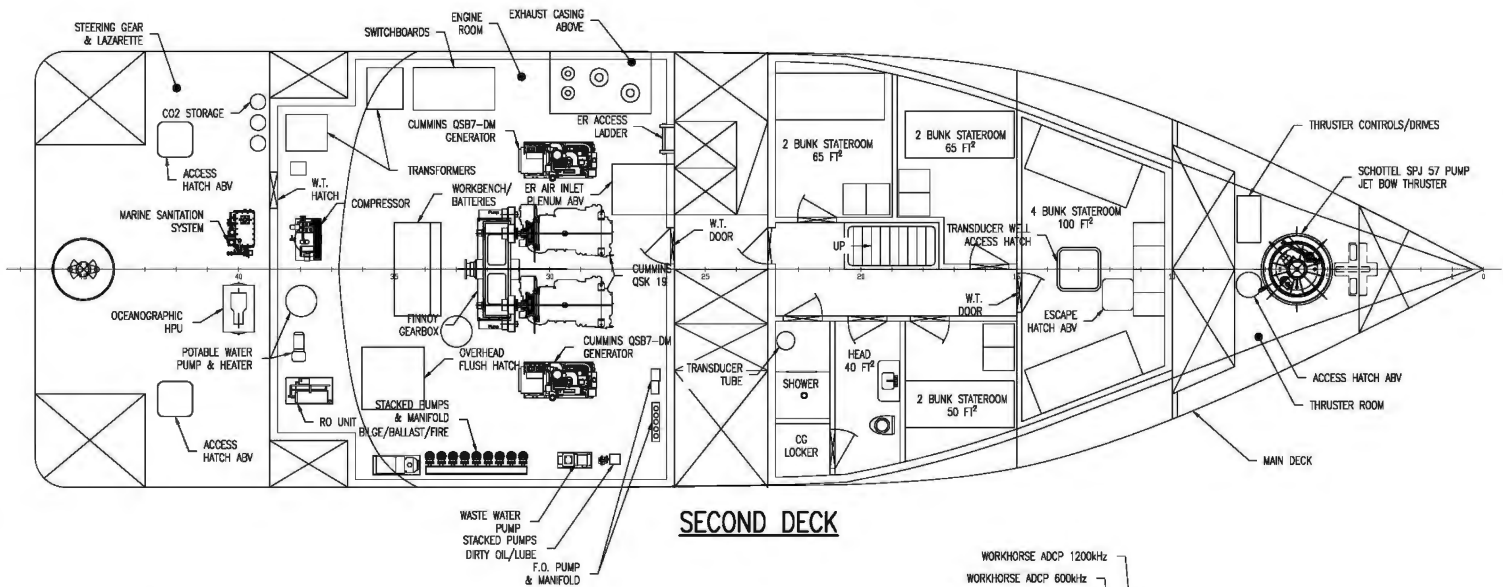
**VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VA
VIMS RESEARCH VESSEL
93'-1" X 28' X 14'**

JMS
NAVAL ARCHITECTS
70 Essex St.
Mystic, CT 06355
voice 860.536.0006
fax 860.536.5117
jms@jmsna.com

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OUTBOARD PROFILE

DRAWN BY: WJF	CHECKED BY: MPC	REVIEWED BY: -
SCALE: 1/8" = 1'	SYS: ANSI B	DATE: 07/02/2015
DRAWING NO. 13-149-205	REVISION: -	SHEET: 1 OF 1



GENERAL NOTES

VESSEL CONFIGURED FOR TWIN DIESEL, SINGLE SCREW, CONTROLLABLE PITCH PROPELLER.

MAIN ENGINE: TWO (2) CUMMINS QSK19 MCRS, US EPA TIER II, RATED 660 BHP @ 1800 RPM, "CONTINUOUS DUTY."

GEAR BOX: 2-IN, 1-OUT FINNOY GEARBOX W/CLUTCHABLE OUTPUT SHAFT TO CPP, W/TWO (2) CLUTCHABLE PTO'S.

GENERATORS: TWO (2) CUMMINS QS87 99 kW.

THRUSTER: ONE (1) SCHOTTEL SPJ 57 RD PUMP JET, 268 HP.

DYNAMIC POSITIONING SYSTEM WILL UTILIZE AZIMUTHING BOW THRUSTER, CONTROLLABLE PITCH PROPELLER AND HIGH LIFT RUDDER TO PROVIDE POSITIONING AND ATTITUDE CONTROL.

ON THE LOWER DECK, THE STEERING GEAR, AND ASSOCIATED MACHINERY ARE LOCATED SEPARATE FROM THE ENGINE ROOM. THE STEERING GEAR ROOM WILL ALSO HOUSE THE MARINE SANITATION DEVICE, AND CO2 BOTTLE STORAGE FOR THE ENGINE ROOM FIRE SUPPRESSION SYSTEM. THE ENGINE ROOM CONTAINS THE PROPULSION MACHINERY, ELECTRICAL EQUIPMENT, MANFOLDS, AND AUXILIARY EQUIPMENT.

A WATERTIGHT DOOR FORWARD FROM THE ENGINE ROOM LEADS TO THE LOWER ACCOMMODATION SPACE. ACCOMMODATIONS FOR 10 ARE SPLIT BETWEEN THREE (3), 2 BUNK STATEROOMS, AND ONE (1), 4 BUNK STATEROOM. THE STAIRWELL IS LOCATED TO PORT OF THE PASSAGEWAY. A HEAD IS LOCATED TO STARBOARD, AFT OF THE STARBOARD STATEROOMS. ACCESS TO THE TRANSDUCER TRUNK IS LOCATED ON CENTERLINE, IN THE FORWARD STATEROOM. FORWARD OF THE ACCOMMODATIONS IS THE FORWARD THRUSTER ROOM.

TANK CAPACITIES

DESCRIPTION	TOTAL CAPACITY (GAL)
FUEL OIL	8,700
POTABLE WATER	3,600
LUBE OIL	350
HYDRAULIC OIL	1,200
DIRTY OIL	350
BILGE SLOP	650
HOLDING	650
BALLAST	5,700

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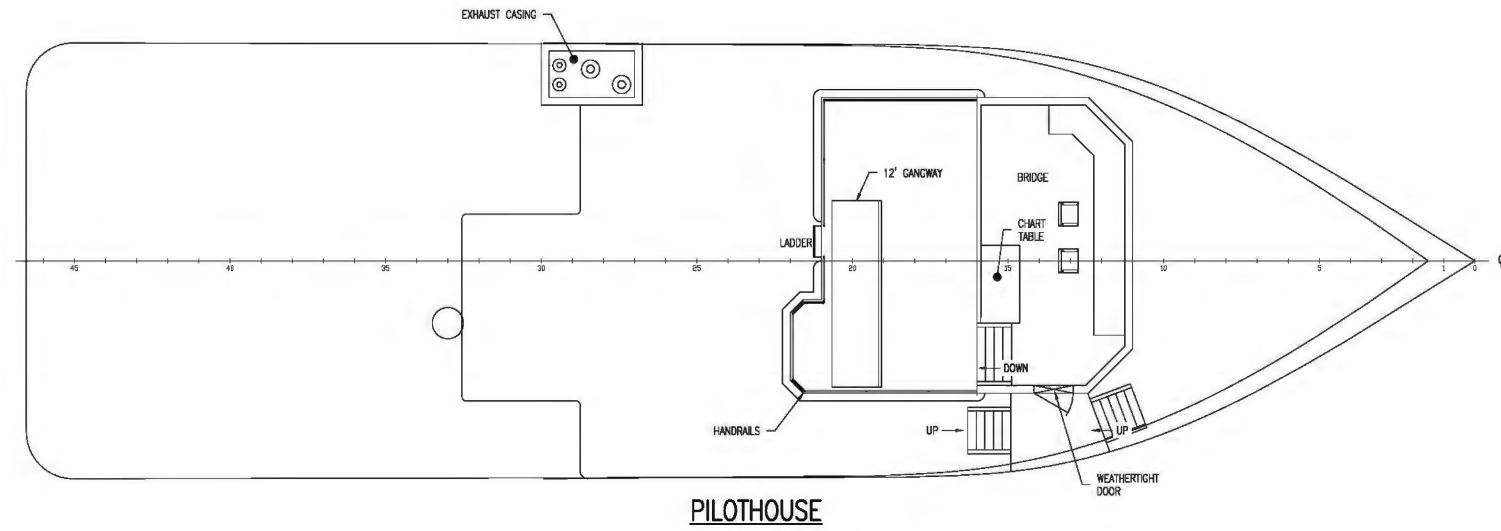
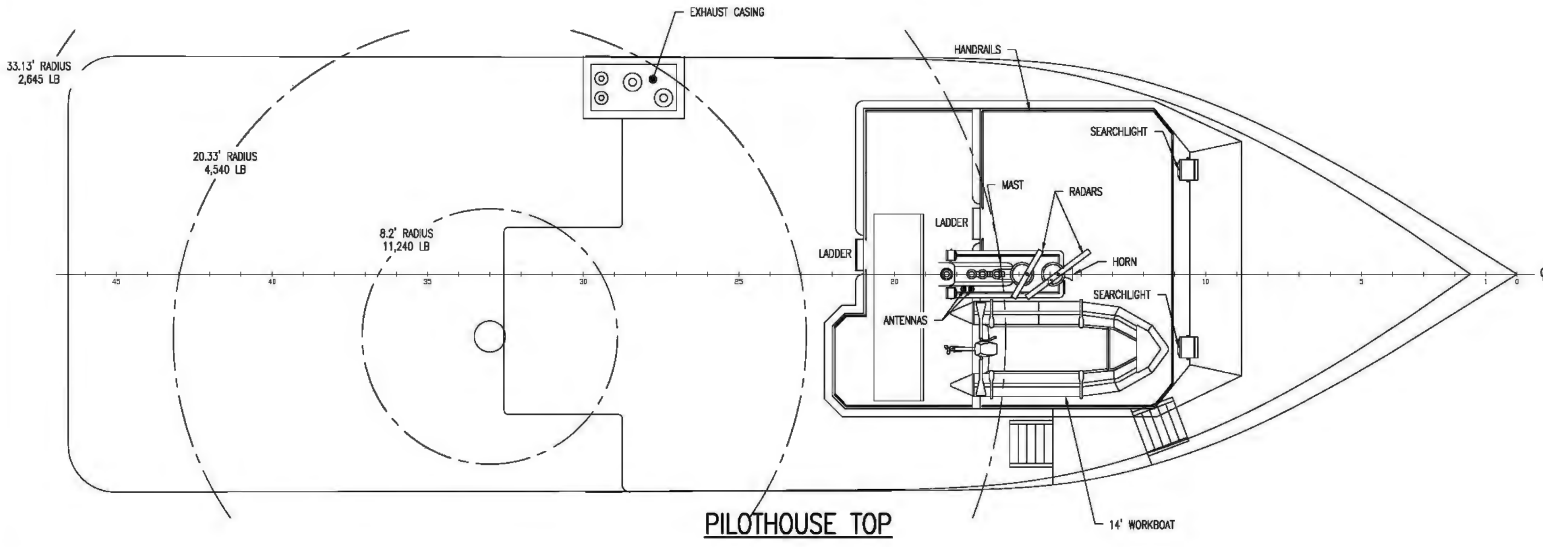
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voice 860.536.0009
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DESIGNED BY: WJF	CHECKED BY: MPC	REVIEWED BY: -
SCALE: 1/8" = 1'	SHEET: ANS B	DATE: 07/02/2015
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GENERAL NOTES

A DOOR ON THE STARBOARD SIDE OF THE PILOTHOUSE PROVIDES EGRESS TO A WALKWAY. STAIRS FROM THE WALKWAY LEAD TO THE FORE DECK OR WINCH/CRAVE DECK AFT.

ON THE EXTERIOR OF THE PILOTHOUSE, A VERTICAL LADDER ON THE AFT BULKHEAD LEADS FROM THE WINCH/CRAVE DECK TO THE LOWER PILOTHOUSE TOP. THE GANGWAY IS LOCATED ON THE LOWER PILOTHOUSE TOP WITHIN REACH OF CRANE. AN ADDITIONAL VERTICAL LADDER ON THE AFT BULKHEAD OF THE UPPER PILOTHOUSE LEADS FROM THE LOWER PILOTHOUSE TOP TO THE UPPER PILOTHOUSE TOP. THE WORKBOAT IS LOCATED ON THE UPPER PILOTHOUSE TOP WITHIN REACH OF THE CRANE.

A MAST IS LOCATED ON CENTERLINE ON THE UPPER PILOTHOUSE TOP AND PROVIDES A LOCATION FOR SHIP NAVIGATION EQUIPMENT.

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