Healy

This cruise planning manual provides information on the operational capabilities of USCGC HEALY (WAGB 20), and guidance on various policies, regulations, procedures, safety issues, and shipboard precautions. The intent is to assist the chief scientist and members of the scientific party in preparing for and successfully accomplishing the scientific mission, while maintaining a harmonious and productive relationship with support personnel and the ship's crew.

USCGC HEALY (WAGB-20), the United States newest polar capable icebreaker, was commissioned as a U. S. Coast Guard cutter on August 21, 2000. The vessel was designed and built by Litton-Avondale Industries, Inc. and named after **Captain Michael A. Healy** of the U.S. Revenue Marine. HEALY's primary mission is to function as a world class high latitude research platform with emphasis on Arctic science. The ship is capable of employment in icebreaking operations during any season in the Arctic and Antarctic. The ship's systems have been designed with sufficient redundancy and robustness to meet national contingencies in the Polar Regions, including intentional wintering over. Other mission capabilities include escort for logistical re-supply of polar land facilities, search and rescue in Polar Regions, and marine environmental protection response.

Planned deployments are expected to be multi-disciplinary, in support of a wide range of science and engineering projects including, but not limited to: marine geology; physical, chemical and biological oceanography; and meteorology. Science working spaces and labs were designed to facilitate the latest approaches and techniques for conducting state of the art oceanographic research.

Virtual Tour

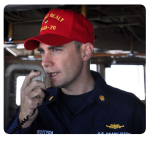
Take a virtual tour of various rooms within the Healy

Life at Sea

Learn about the Healy's services and policies, shipboard emergency protocols, lab safety and more

Specs & Layouts

Learn about the Healy's layout, general and machinery specs



Healy Personnel

Who is on board now and who has sailed as USCG personnel on Healy in the past.

Contact

See in-port contact information, iridium & inmarsat and the Healy's Marine Science Coordinator's contact information

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Life at Sea

HEALY is a self-sufficient community of approximately 80 crew and 35 to 50 visiting scientists. All science party members have use of the Science Conference Room / Lounge and Messdeck for recreational activities. If invited by a crew member, you are more than welcome to join them in one of the crew's lounges. Please remember that these spaces are also home to the crew. Movies are shown nightly at 1800 and 2000. Arrangements can also be made to check out movies for showing in the Science Lounge. Movies can also be shown at other times that work better with ongoing science operations.

Schedule at Sea

Learn about the routine schedule on board the Healy.

Services & Policies

Basic services on the Healy.

Shipboard Emergencies

Protocols for emergencies.

Finding Your Way

Understanding the layout of the Healy.

Laboratory Safety

Safety protocols in the Laboratory.

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Schedule at Sea

Daily Routine

0645 - Reveille
0700 - 0745 Breakfast
0745 - 0800 Breakfast for the 0400-0800 watch
0800 - Commence ship's work
1120 - Early lunch (for watch reliefs)
1130 - Lunch
1230 - Quarters
1600 - End of normal work day
1650 - Early Dinner (for watch reliefs)
1700 - 1745 Dinner
1800 - Early Movie
1915 - Weather/Science Brief
1945 - Evening Reports
2000 - Late Movie
2200 - Taps

Holiday Routine

0700-1200 - Brunch
1000 - Catholic Service (Sundays and Holidays)
1030 - Protestant Service (Sundays only)
1230 - Muster Reports
1650 - Early Dinner (for watch reliefs)
1700 - Dinner
1800 - Early Movie
1945 - Evening Reports
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2200 - Taps

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Alcohol and Tobacco

Coast Guard regulations prohibit the possession or consumption of alcohol or controlled drugs (except legally prescribed medication) aboard ship. These regulations also prohibit smoking inside the ship. Smoking is not permitted in science vans. Smoking is permitted in topside smoking areas. Please use the butt cans provided.

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Clothing and Mustang Suits

Comfortable, clean clothing is acceptable on the messdeck (i.e. Jeans and T-shirt in good repair). However, we ask that you not come directly from the coring deck to the dinner table. The ship does not ordinarily provide cold weather gear to the science parties. Mustang suits are available use on the working decks.

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Electrical Equipment

All electrical equipment must be grounded, to reduce the risk of electrical shock. Any piece of equipment plugged into the ship's outlets must have a plastic case and an undamaged cord. A visual safety check should be completed before any item is plugged into the ship’s electrical system.

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Firearms

Personal firearms may be brought onboard only with prior permission of the Commanding Officer. Personal firearms must be turned over to the ship’s Weapons Officer (or OOD if the Weapon’s Officer is unavailable) for stowage in the ship’s armory as soon as you report.

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Fresh Water

Fresh water is a most precious commodity aboard ship. The use of "sea showers", when dictated, are mandatory. A sea shower entails turning the water on only to wet down and to rinse off with no more than 2 minutes of running water consumption. Soap up with the water turned off and turn the water on to rinse.

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Gym

The Gym is located on the 2nd deck directly below the messdeck. There are several weight machines, lifecycles, stairclimbers, and other typical weight room items. You are welcome to use any of this equipment, but please wipe down equipment and stow everything for sea when you are finished.

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Laundry

On HEALY, laundry facilities are on a first-come, first-serve basis. A mesh laundry bag, marked with your name, is advisable. Please be considerate of others and remove your laundry from a machine as soon as it is finished.

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Meals

Meals will be served at the scheduled times, but will be flexible according to ongoing operations. All meals are served on the Messdeck. If the messdeck is crowded, please avoid loitering after finishing your meal. Midnight rations are served at 2300 and are usually simple leftovers or sandwich fixings, and are available to you. There are also snacks and leftovers available in a refrigerator on the Messdeck for personnel working during hours when meal service is not available. You are more than welcome to help yourself to these items; however, please be considerate of those personnel relying on these items to get them through a long off-hours watch.

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Medical

Upon your arrival you will be asked to fill out a health status form and meet briefly with the ship's medical staff. A medical officer and Chief Corpsman will be available to advise and help you with medical problems occurring while underway. You should come prepared with prescription medication to last the entire trip, since obtaining re-fills onboard or in foreign ports may be difficult. The Medical Screening form must be completed as part of the cruise planning process.

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Photographs

You are more than welcome to take photographs onboard the ship but we request that you do not use them for commercial or public relations purposes without prior arrangements with the Coast Guard.

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The Plan of the Day (POD)

The POD is produced daily and posted each evening for the following day. It lists special events, announcements, and any changes to the daily routine.

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Restricted Area (Limited Access Areas)

There are a few restricted areas of the ship. Upon arrival, you will receive a tour of the vessel. You are free and encouraged to roam throughout the ship, with the exception of Radio spaces, other staterooms, and engineering spaces. If you are interested in seeing engineering spaces, please ask a crewmember. You are welcome to visit the bridge, but please avoid any interference with watch activities or evolutions such as mooring, anchoring, flight quarters, etc. Please ask the Officer of the Deck (OOD) for permission to visit the Aloft

Conning Station.

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Securing for Sea

Keeping your personal and scientific gear SECURED FOR SEA can not be emphasized enough. HEALY will roll and pitch in rough weather and seas, and will experience vibration during icebreaking. Improperly secured gear my be damaged or cause hazards to people. The ship cannot be held responsible for damage caused by poor stowage or a failure to properly secure gear. If you have any questions regarding proper stowage procedures, consult with one of our Marine Science Technicians (MST).

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Trash

The science party will be asked to sort their trash in accordance with a few ecological rules observed by the ship. Trash is separated by composition into burnable and non-burnable categories. Items that cannot be burned in the incinerator will be stored in a designated area until they can be disposed of. All members of the science party will receive information on trash handling procedures to minimize the environmental impact of waste disposal.

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Shipboard Emergencies

While HEALY personnel will respond and handle all emergency situations onboard, there are some basic skills and information that will greatly aid in our ability to protect ourselves and the ship.

Material Conditions of Readiness

Conditions of readiness refer to how protected the ship is to possible damage from flooding, fire, or smoke. To prevent spreading of these conditions, the ship is compartmentalized using watertight and fire tight boundaries (hatches, doors, scuttles, etc.). You'll notice as you walk about the ship that all fittings are labeled with a large black letter X, Y, Z, or W. These letters represent the classification of this fitting and tell you when it can be open or must be closed. During normal underway conditions, CONDITION "Y" or YOKE is usually set onboard HEALY. This means that all fittings labeled X and Y must remain closed at all times (unless permission has been obtained from the engineering control center (ECC) to open the fitting). You will notice that there are several different symbols employed in this system, their explanations are as follows:

X-Ray (X)

In order to open these fittings, permission must be obtained from the watch in ECC. X-Ray fittings provide access to lesser used spaces, but reduce the amount of protection to the vessel, and therefore must be logged open in our Damage Control Closure log. This information is especially useful in combating damage to the ship.

Circle X-Ray and Yoke

(X or Y, enclosed in a circle): These fittings may be opened without permission, but must be closed after use.

Zebra (Z)

Designates fittings that can remain open for normal use but must be closed for emergency situations, and certain special evolutions (flight quarters, towing, etc.). These fittings provide the greatest protection and compartmentalization, and therefore are used in situations when damage has occurred or where there is an added risk of damage to HEALY.

William (W)

Fittings which serve the ship's vital systems, such as cooling water, ventilation, and firemain systems. They are to remain open at all times, except to stop damage.

Yoke (Y)

These fittings must also be logged open by the ECC watch. If you spot a Yoke fitting open at any time, close the fitting, or contact a crew member to make the situation known.

General Emergency

In the event of any actual or potential emergency, your will hear the general emergency alarm and an amplifying announcement. All members of the science party, should immediately proceed to the Science Conference Room, closing all doors along the way to prevent the spread of smoke. Once onboard, you will receive an additional briefing on emergency procedures. Emergency drills will be conducted occasionally so as not interfere with science operations.

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Finding Your Way

Each space onboard HEALY is designated with a compartment number that describes its location. The first number indicates which deck the compartment is on. The main deck is 1, with decks below numbered sequentially (2,3,4). Decks above the Main deck have a 0 preceding their number. So, from the Bridge down the deck numbers are 05, 04, 03, 02, 01, 1 (Main Deck), 2 (Second Deck), 3 (3rd Deck), 4 (4th Deck), and 5. The second number indicates the forward frame of the compartment. Frames are counted along the ribs of the ship starting at the bow. Therefore, the second number tells you how far aft in the ship the compartment is. The third number indicates lateral location with respect to the centerline. 0 indicates that the compartment is amidships (on the center). Even numbers indicate the port side, odd numbers are used for starboard compartments. The larger the number, the further outboard the compartment. The fourth part of the compartment number is a letter or letter pair used to indicate the use of the space. Some of the more common compartment labels are:

Letter space

A Stowage Spaces AA Cargo Holds and refrigerated spaces F Fuel and lubricating oil storage L Living Spaces M Ammunition spaces Q All spaces not covered in other categories (includes labs) V Void compartments E Engineering spaces As an example, comparment 02-33-0-L, is on the 02 deck (2 decks above the main deck). The forward bulkhead of the compartment is at frame 33. It is located on the centerline of the ship, and it is a living space. If you were to use this information, you would find yourself in the science conference center/lounge.

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Laboratory Safety

HEALY's science laboratories are outfitted with several types of safety equipment. The following is only a brief description of the systems in place, please ask our Marine Science Technicians for assistance or training.

Fire Blankets

Fire Blankets are located in several of the science spaces. These flame retardent blankets are used to smother flames in the event a person's clothing or hair has caught fire. In the event of a fire, pull the handle on the container towards you to open, and remove the blanket. Wrap the blanket around the victim to smother the flames. This equipment is especially effective when combined with the "Stop, Drop and Roll" technique.

Eye Wash/Shower Deluge Systems

These systems are located in the Main Lab, Wet Lab, and Bio-Chem Lab. In the event that a toxin or particle has infiltrated the eyes, the victim should be led to the nearest eyewash station. Depressing the foot pedal and holding it down activates the nozzles. The effected area should be washed for a minimum of 10 minutes. In the event that the contamination extends to any part of the body, the victim should be showered using the deluge system for a minimum of 10 minutes. This system is activated by pulling down on the handle attached to the shower head. In either of these cases, the ship's corpsman should be notified, and the victim should seek further medical attention.

Electrical Outlet Cut-out Switches

Each of the laboratories is equipped with remote power outlet cut-out switches. These switches, as seenbelow, are used to isolate an electrical circuit in the event of an emergency. When lit, the associated power outlet is on, and can be secured by twisting the power switch until the light is secured. Please note, these switches are for emergency use only, securing power for other reasons may affect ongoing experiments. If you are unsure of which switches control your experiments, please consult with a Marine Science Technician.

Hazardous Materials

HEALY's Marine Science division maintains a number of spill response kits designed to handle several types of chemical spills. If your project requires the use of chemicals that may be toxic, aggressive, or highly reactive please consult with a Marine Science Technician to determine the location and use of spill kits. Aside from the fume hood sinks, ALL SINKS DRAIN INTO OUR GENERAL SEWAGE SYSTEM WHICH IS PUMPED DIRECTLY TO THE SEA WHEN REGULATIONS AND OPERATIONS PERMIT. HAZARDOUS/TOXIC CHEMICALS SHALL NEVER BE DISPOSED OF WITHOUT FIRST CHECKING WITH A MARINE SCIENCE TECHNICIAN. If possible, we ask that projects requiring special waste handling supply their own carboys or other waste storage containers. Use of Hazardous Materials must be part of the cruise planning process. All scientists are REQUIRED to provide MSDS's for all chemicals brought onboard.

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Machinery Specs

- Central Power Generating Plant and AC/AC Cycloconvertor Propulsion Drive
- Machinery Plant Control & Monitoring System (MPCMS) - providing automated control of machinery plant
- Fixed Pitch Propellers
- Twin Rudders
- 2400 kW Auxiliary Generator
- 2200 HP Bow Thruster and Bow Wash System
- Cranes - 5 hydraulically operated, 100% coverage of working decks, with exception of forward van locations on boat decks. Each has different reach/weight limitations.
- Pollution Control:
  - OWS
  - Incinerator
  - CHT System
  - Trash Compactor
  - Anti-roll Stabilization Tank

General Spec

Vessel Data & Contact Information for the Healy

Country: USA

NODC Code: 33HQ

Call Sign: NEPP

Owner: US Coast Guard

Operator: U.S. Coast Guard

Contact:

Address: 1519 Alaskan Way South, Seattle, Washington 98134

Telephone: 206-217-6300

Email: D13-DG-CGCHealy-MSO@uscg.mil

Year Built: 1999

Main Dimensions

Length OA: 128m

Breadth: 25m

Freeboard to working deck: 4m

Max. draft: 9.4m

Main Vessel Activity

Main Activity: Research support in Polar regions, including logistics, search and rescue, ship escort and more

Operating Area: Polar Regions

Capacities and Working Spaces

Gross tonnage: 16000 GRT

Dry cargo holds: 567 m^3

Fuel: 4621 m^3

Wet Labs Area: 36 m^2

Dry Lab Area: 14.2 m^2

Fresh Water Generator Capacity: 600 m^3/day

Free Working Deck Area: 1933 m^2

Space for container lab: 10 m

Range, Speed, and Endurance

Range: 16000 nautical miles

Cruising Speed: 12.5 kts

Max. Speed: 17 kts.

Accomodation

Officers: 12

Other crew: 63

Scientists: 50

Air Conditioned: Yes
Sewage holding tank retention- 48 hours with out pumping. Can be extended by 24 hrs with water restrictions (secure laundry, sea showers and paper plates).

Data Processing Equipment

Computers: Sun, Mac, PC Computer

Coring Specifications

Coring Capabilities Aboard: Yes

Diving Support

Diving Capabilities: Dive Locker & Portable Recompression Chamber

Engineering Design Particulars

Ice Breaking Ability: 1.4m@ 3 knots and 2.44m backing and Ramming

Hull Materials: Steel

Engines: Main engine(s): number: 4, make: Sultzer 12Z AU40S, Power (BHP) each engine: 15000 at 130rpm, Propeller Diameter: 4.87 m, Max. RPM: 147, Total power auxiliary diesels: Unknown HP

Electrical Systems: AC Voltages: 0 / 450V /0V, Phases: 3, Frequency: 60 Hz, Stabilized System: VAC AMPs Hz

Fixed Equipment

Navigation and Communication

Navigational Equipment: Radar, Gyro, GPS, DopLog

Communications Equipment: Fax, SatCom, HF

Winches

Steel Wire Length: 10000 m, (safe working load): 3.7 tons

Trawl winch length: 14000 m, (safe working load): 8.1 tons

Gantry

Position: Midships

Clearance above deck: 7 m

Safe working load at maximum reach: 3 tons

Crane

Position: 100% of Working Deck

Safe working load at maximum reach: 5

Vessel Construction and Maintenance Supervision

Construction Supervised by: Litton-Avondale Industries, Inc

Others, Specify: IMO# 009083380

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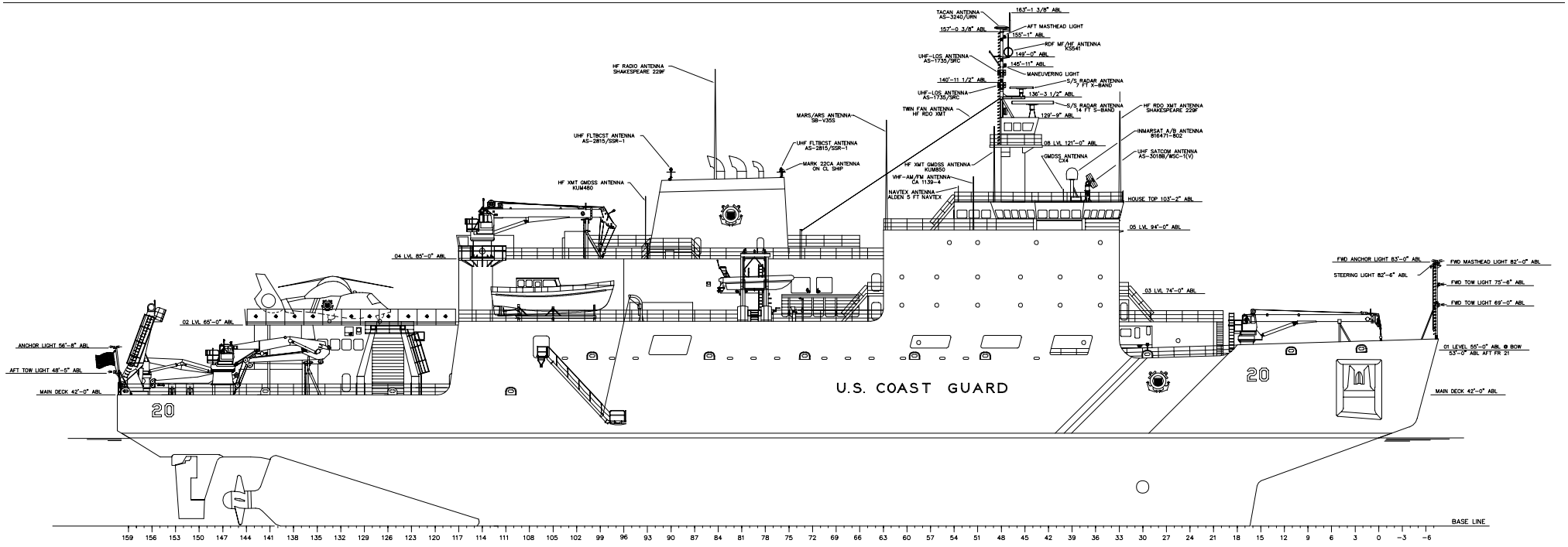


SIGNIFICANT DATES	
BUILT BY	AVONDALE INDUSTRIES
KEEL LAID	SEPTEMBER 16, 1996
LAUNCHED	NOVEMBER 15, 1997

PROPULSION	
TWO (2) 11200KW PROPULSION MOTORS	
MANUFACTURER	GEC ALSTHOM
HORSEPOWER	15000
RPM	160

PROPELLERS	
ONE (1) RIGHT HAND, ONE (1) LEFT HAND	
MANUFACTURER	BIRD JOHNSON
DIAMETER	16'-0"
BLADES	4 REMOVABLE
FIXED PITCH	

SHIP'S CHARACTERISTICS	
LENGTH OVERALL	419'-9"
LENGTH BETWEEN PERPENDICULARS	396'-6"
BEAM, MOLDED	82'-0"
DEPTH TO MAIN DECK @ SIDE	42'-0"
DESIGN WATERLINE	28'-0"
DISPLACEMENT (TOTAL), @ DWL	15447.3 TONS
WETTED SURFACE	37341 SQ.FT.

ACCOMMODATIONS	
OFFICERS	12
CHIEF PETTY OFFICERS	10
ENLISTED + 1 SPARE	51
SCIENTISTS	35
SCIENTISTS (SURGE)	15
VISITORS	2

TABLE OF CONTENTS

PLATE	TITLE
1	TITLE PAGE
2	OUTBOARD PROFILE
3	INBOARD PROFILE
4	DECKS
5	MIDSHIPS AND TYP SECTIONS

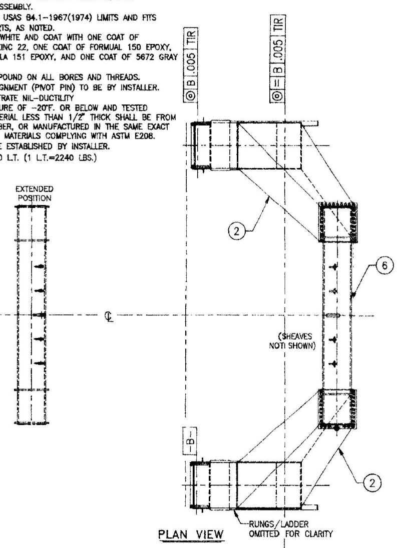
REVISIONS

REV	SH	ZN	DESCRIPTION

FSCM	USCG DWG NO	SH	REV
81340	420 WAGB 801-001	1	–

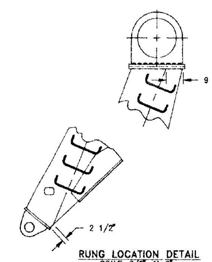
GENERAL NOTES:

1. ASI JOB NO. C3-140; ITEM IB-M-57305.
2. FABRICATOR/VENDOR/MANUFACTURER TO LIFT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
3. ALL WELDING PER AWS D1.1, LATEST EDITION.
4. QUANTITIES SHOWN IN BILL OF MATERIALS ARE REQUIRED FOR ONE A-FRAME ASSEMBLY.
5. REFER TO ASME/ANSI USAS B4.1-1967(1974) LIMITS AND FITS FOR CYLINDRICAL PARTS, AS NOTED.
6. (F) SANDBLAST TO NEAR WHITE AND COAT WITH ONE COAT OF INTERNATIONAL INTERZINC 22, ONE COAT OF FORMUAL 150 EPOXY, ONE COAT OF FORMULA 151 EPOXY, AND ONE COAT OF 5672 GRAY EPOXY (OR EQUAL).
7. USE ANTI-SEIZE COMPOUND ON ALL BORES AND THREADS.
8. INSTALLATION AND ALIGNMENT (PIVOT PIN) TO BE BY INSTALLER.
9. STEEL MUST DEMONSTRATE NIL-DUCTILITY TRANSITION TEMPERATURE OF -20°F. OR BELOW AND TESTED PER ASTM E208. MATERIAL LESS THAN 1/2" THICK SHALL BE FROM THE SAME HEAT NUMBER, OR MANUFACTURED IN THE SAME EXACT PROCESS AS THICKER MATERIALS COMPLYING WITH ASTM E208.
10. EDGE OF DECK TO BE ESTABLISHED BY INSTALLER.
11. A-FRAME CAPACITY 60 L.T. (1 L.T.=2240 LBS.)

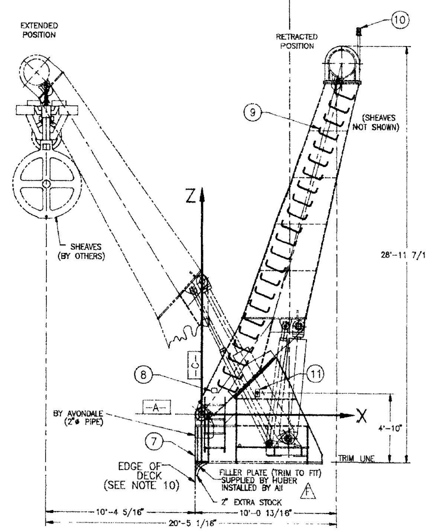


PLAN VIEW

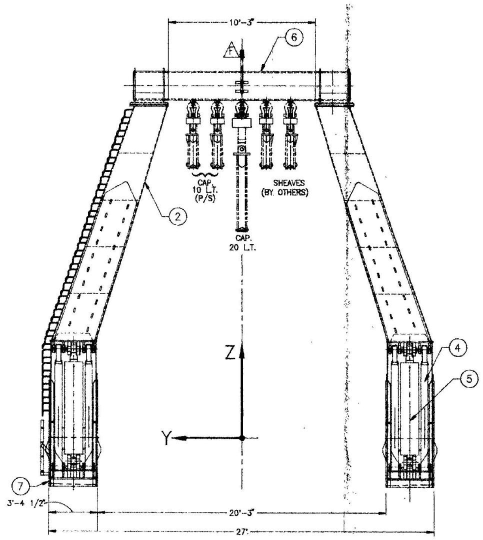
NOTE:
SOME DETAILS MAY BE OMITTED FOR CLARITY



RUNG LOCATION DETAIL
SCALE: 3/8"=1'-0"



ELEVATION
(LKG. TO PORT)



SIDE VIEW
(LKG. AFT)

571-2000		2	1

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
–	A	REVISED AS INSTRUCTED	11/13/95	
–	B	General Revision	1/26/96	
–	C	Revise base to allow welding to deck as requested by ASI	7/8/96	
–	D	Major Revision/Redesign base as directed by Avondale	9/5/96	
	E	Gen. Revision	11/5/96	
	F	Gen. Revision	9/20/97	

REFERENCE DRAWINGS:

NO.	TITLE	ORIGINATOR
17-01-02	AFT. A-FRAME FOUNDATION	AVONDALE
B54898	COUNTERBALANCED HANGING SNATCH BLOCK 52-NC	SMITH BERGER MARINE, INC.
B54899	HANGING SNATCH BLOCK 52-N1	SMITH BERGER MARINE, INC.
B54900	COUNTERBALANCED HANGING SNATCH BLOCK 22-NC	SMITH BERGER MARINE, INC.
B54901	HANGING SNATCH BLOCK 22-N1	SMITH BERGER MARINE, INC.

CALCULATED WEIGHTS

BOOM = 22,445 LBS
BASE = 16,642 LBS

C.G. (STOWED POSITION)
X=5.4'
Y=0.04'
Z=7.63'

QTY REQ'D	CAGE	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPECIFICATION	ITEM NO.
1	7N931	571-2007-12/13	RECEPTACLE BRACKET		11
1	7N931	571-2007	NAV-AID LIGHT ASSY.		10
23	7N931	571-2007-2	RUNG		9
1	7N931	571-2007-14	WARNING PLATE		8
2	7N931	571-2002	BASE	CARBON STEEL	7
1	7N931	571-2003	CROSSBAR	CARBON STEEL	6
2	7N931	571-6065	CYLINDER	COMML.	5
4	7N931	571-2006	STOP TUBE	CARBON STEEL	4
1	7N931	571-2001	BOOM ARM WELDMENT	CARBON STEEL (CONSISTS OF 1 EA. LEFT & RIGHT)	2
1			A-FRAME ASSY.		

(F)

JOB NO.	C3-140
PURCHASE ORDER NO.	MIB00679
CUSTOMER	AVONDALE SHIPYARD
CONTRACT NO.	N00024-93-C-2300
DRAWN BY / CHECKED BY	M PORTE 09-18-95
APPROVED BY	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON: FRACTIONS ± DECIMALS .X ± .XX ± .XXX ± ANGLES ±
MATERIAL
FINISH
DO NOT SCALE DRAWING

NEXT ASSEMBLY	USED ON
	HULL 2372
APPLICATION	

HUBER, INC.
P.O. BOX 10469
JEFFERSON LA. 70181
(504) 733-0000 FAX (504) 733-0000
CAGE NO. 7N931

POLAR ICEBREAKER AFT. "A" FRAME
(F) FOOTPRINT & ENVELOPE
USCG DWG. NO. 420-WAGB-573-502

SIZE D | DWG NO. HI-571-2000 | REVISION F
SCALE 1/4"=1' | SHEET 1 OF 1

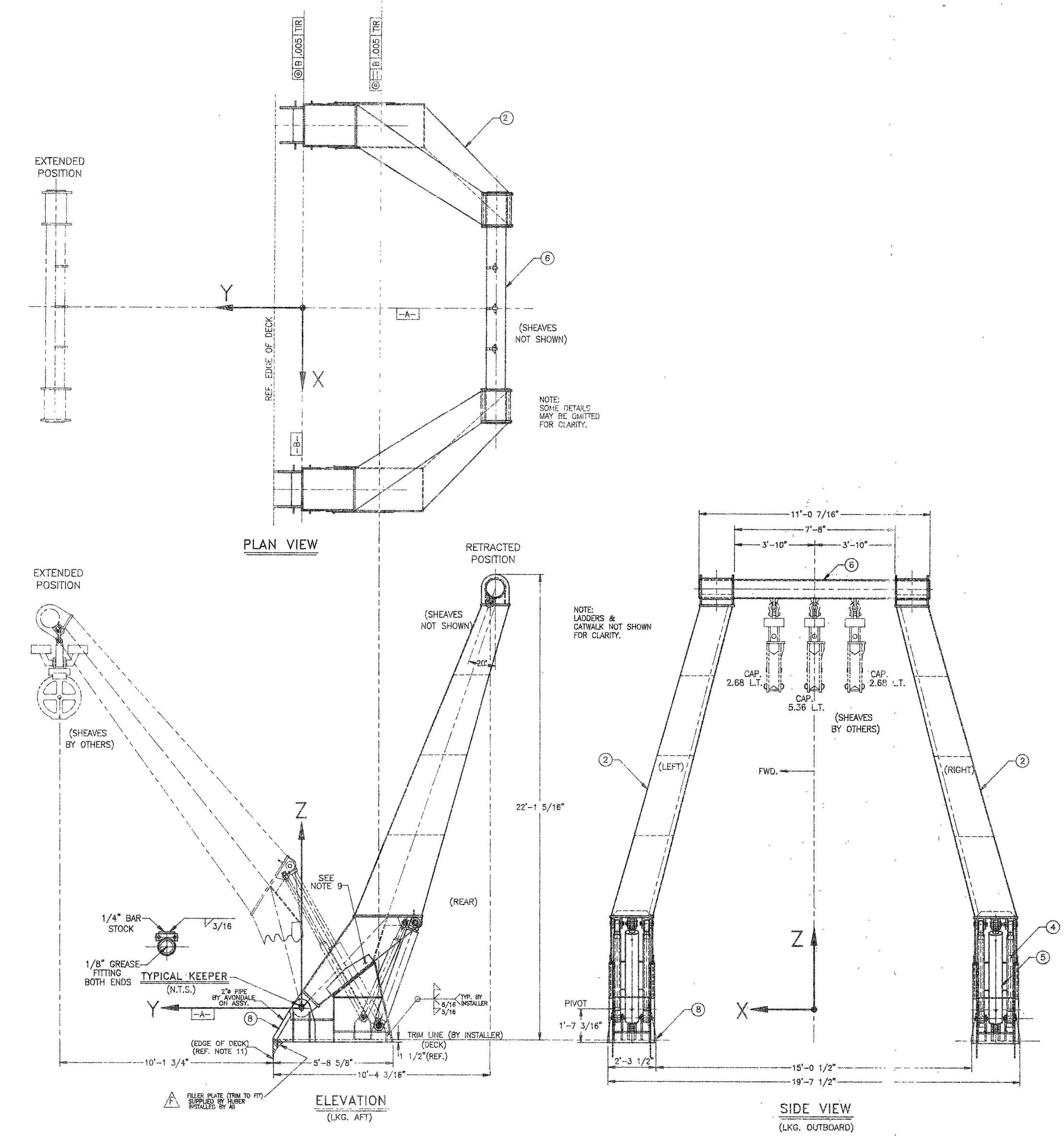
95-713-00/P-8/7/96

D-3

95-705-00

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
–	A	Revise Base to allow welding to deck as requested by ASI	7/5/96	
–	B	Revise Base as instructed by Avondale	9/6/96	
–	C	Revise Base as instructed by Avondale; Revise Cyl./Lugs as instructed	10/1/96	
–	D	Correction C.G.	9/5/97	
–	E	Correction Weight	8/4/98	
–	F	Rev. title, Add D-3 Notation.	10/14/98	
A7		Chg. filler plate note		



REFERENCE DRAWINGS:

NO.	TITLE	ORIGINATOR
17-01-02	STBD. A-FRAME FOUNDATION	AVONDALE
B54901	HANGING SNATCH BLOCK	SMITH BERGER MARINE, INC.

GENERAL NOTES:

1. ASI JOB NO. C3-140; ITEM IB-M-57304.
2. FABRICATOR/VENDOR/MANUFACTURER TO LIFT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
3. ALL WELDING PER AWS D1.1, LATEST EDITION.
4. QUANTITIES SHOWN IN BILL OF MATERIALS ARE REQUIRED FOR ONE A-FRAME ASSEMBLY.
5. REFER TO ASME/ANSI USAS B4.1-1967(1974) LIMITS AND FITS FOR CYLINDRICAL PARTS, AS NOTED.
6. ALL COATING TO BE PER HUBER, INC. SPECIFICATIONS.
7. USE ANTI-SEIZE COMPOUND ON ALL BORES AND THREADS.
8. INSTALLATION & ALIGNMENT (PIVOT PIN) TO BE BY INSTALLER.
9. INSTALL BRACKET AT ASSEMBLY.
10. STEEL MUST DEMONSTRATE NIL-DUCTILITY TRANSITION TEMPERATURE OF -20° OR BELOW AND TESTED PER ASTM E208. MATERIAL LESS THAN 1/2" THICK SHALL BE FROM THE SAME HEAT NUMBER, OR MANUFACTURED IN THE SAME EXACT PROCESS AS THICKER MATERIALS COMPLYING WITH ASTM E208.
11. EDGE OF DECK TO BE ESTABLISHED BY INSTALLER
12. A-FRAME CAPACITY 5.36 L.T. (1 L.T.=2240 LBS.)

CALCULATED WEIGHTS

BOOM = 10,315 LBS
BASE = 4,144 LBS

C.G. (STOWED POSITION)
X=0
Y=-4.28'
Z=6.27'

	2		571-1002	BASE	CARBON STEEL	8
				DELETED		7
	1		571-1004	CROSSBAR	CARBON STEEL	6
	2		571-1005/1006	HYDRAULIC CYL. ASSY.	COMML.(H.S.I. DWG. SK6066/CY6066)	5
	4		571-1007	STOP TUBE WELDMENT	CARBON STEEL	4
	1		571-1001	BOOM ARM WELDMENT	CARBON STEEL (CONSISTS OF 1 EA LEFT & RIGHT)	2
	1			A-FRAME ASSY.		

JOB NO.	C3-140
PURCHASE ORDER NO.	MIB00679
CONTRACT NO.	N00024-93-C-2300
CUSTOMER	AVONDALE SHIPYARD
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	TOLERANCES ON: FRACTIONS ± DECIMALS .X ± .XX ± .XXX ± ANGLES ±
DRAWN BY	
CHECKED BY	M PORTE 09-18-95
APPROVED BY:	
NEXT ASSEMBLY / USED ON	HULL 2372
APPLICATION	

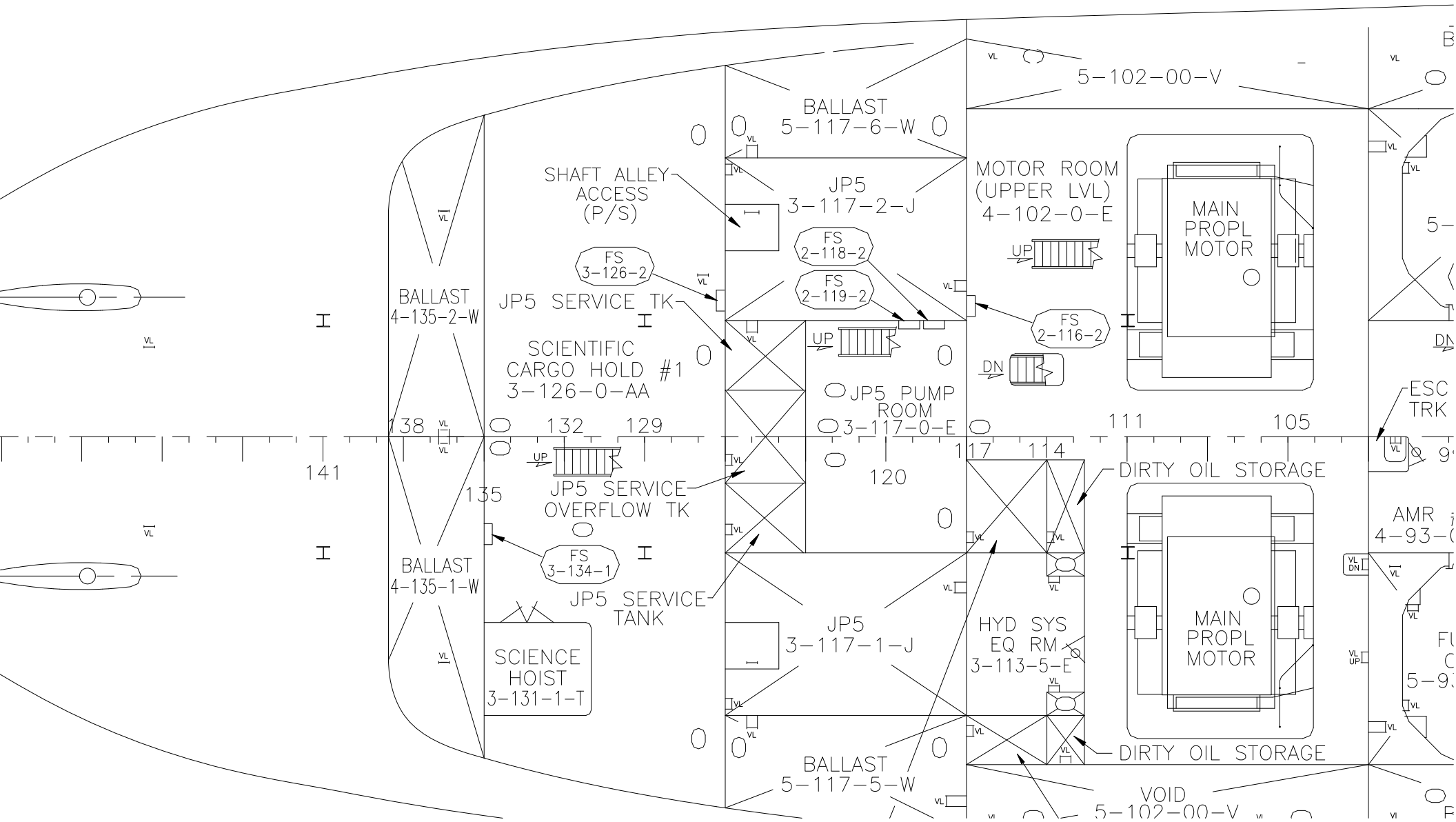
HUBER, INC.
P.O. BOX 10459
JEFFERSON LA. 70181
(504) 733-0600 FAX (504) 733-0966
CAGE NO. 7N931

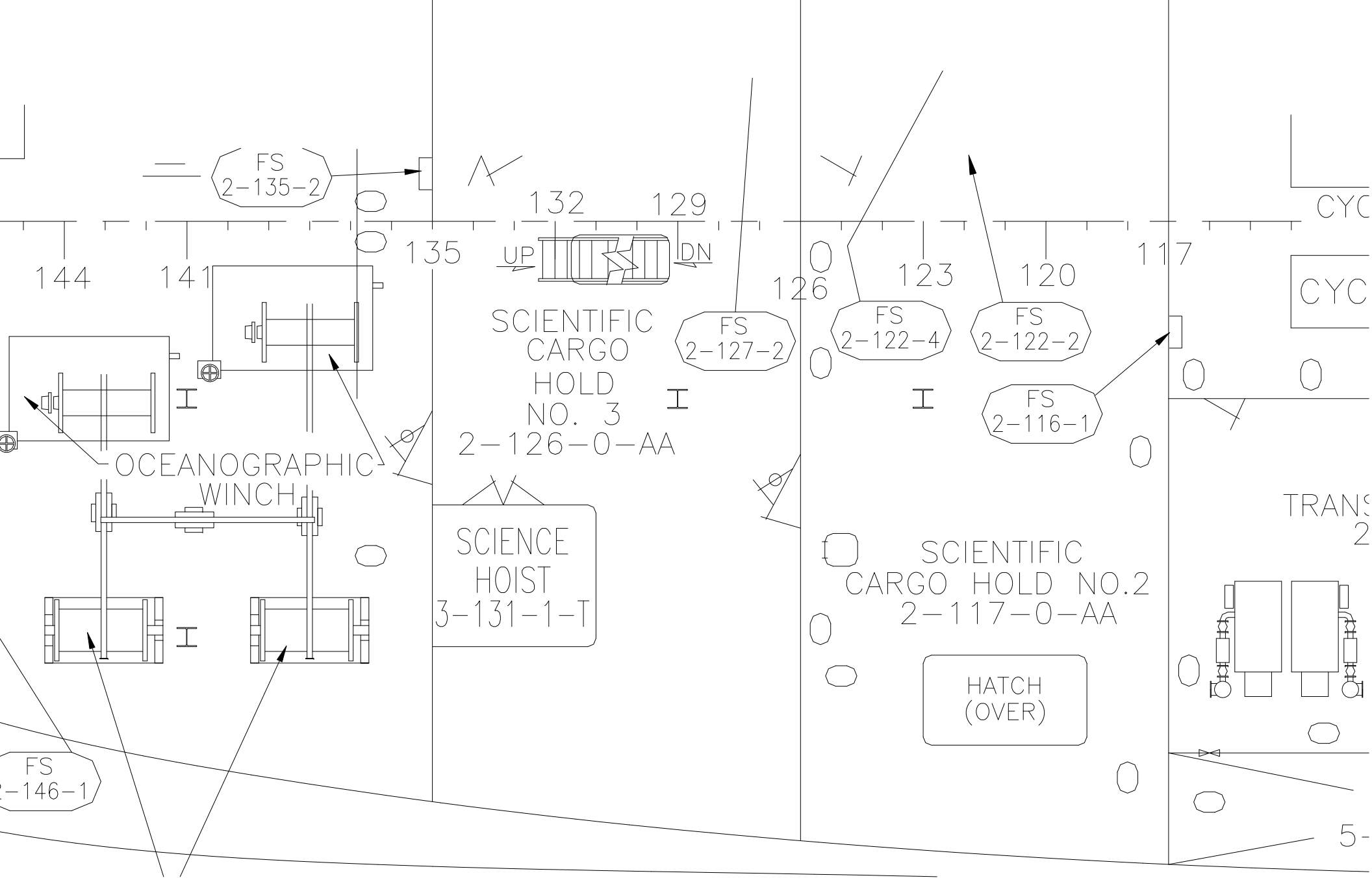
POLAR ICEBREAKER STBD "A" FRAME
FOOTPRINT & ENVELOPE
USCG DWG. NO. 420-WAGB-573-501

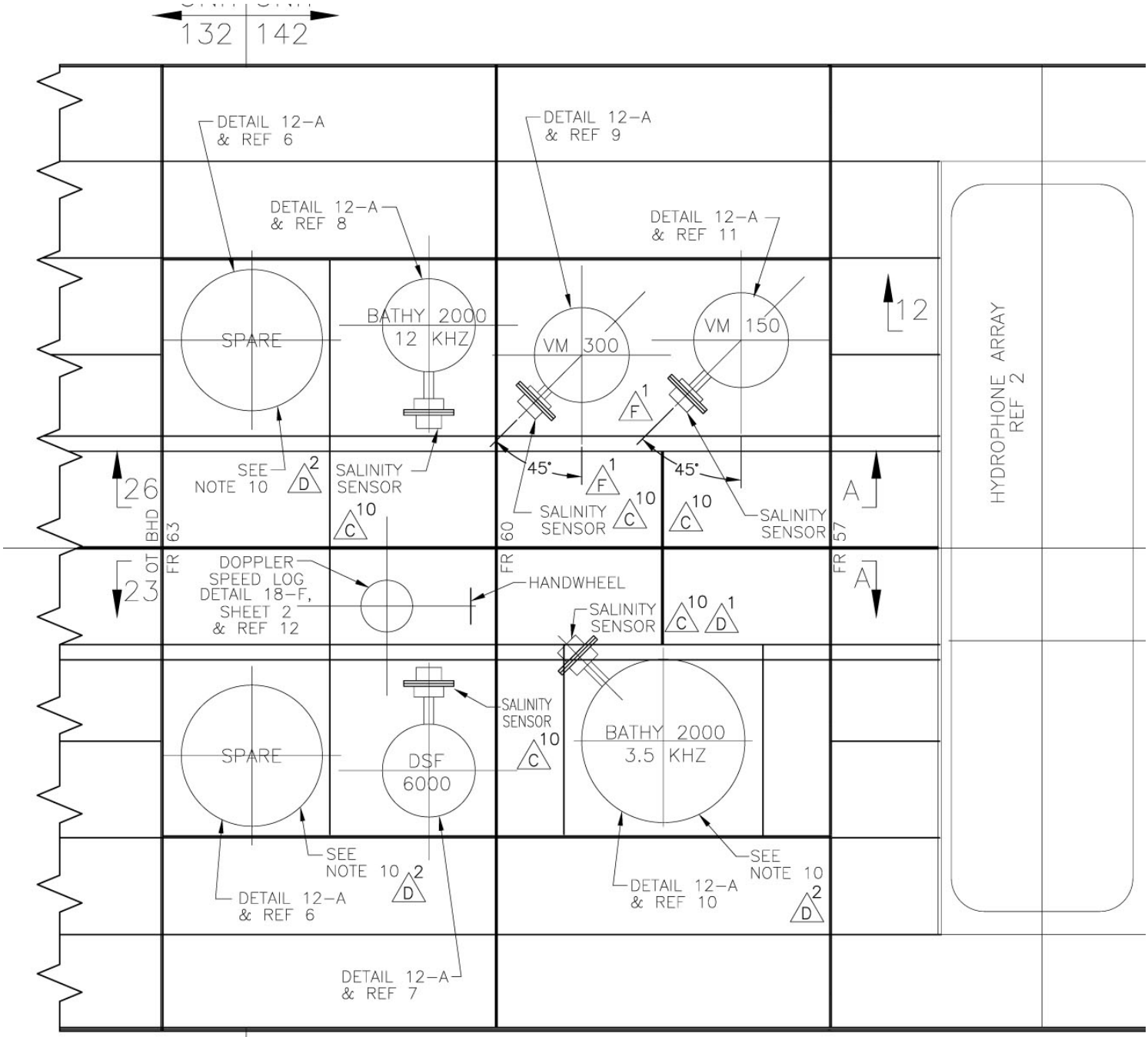
SIZE D DWG NO. HI-571-1000 REVISION F
SCALE 3/8"=1' SHEET 1 OF 1
DO NOT SCALE DRAWING

D-3

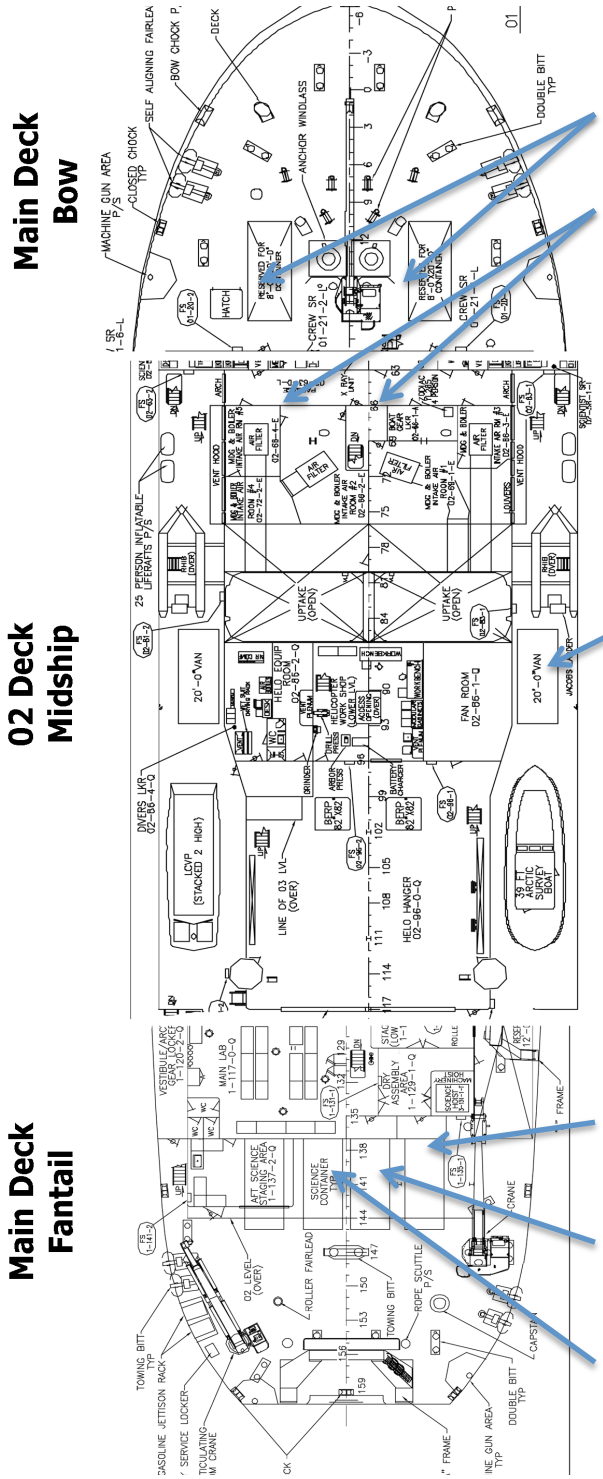
95-705-00

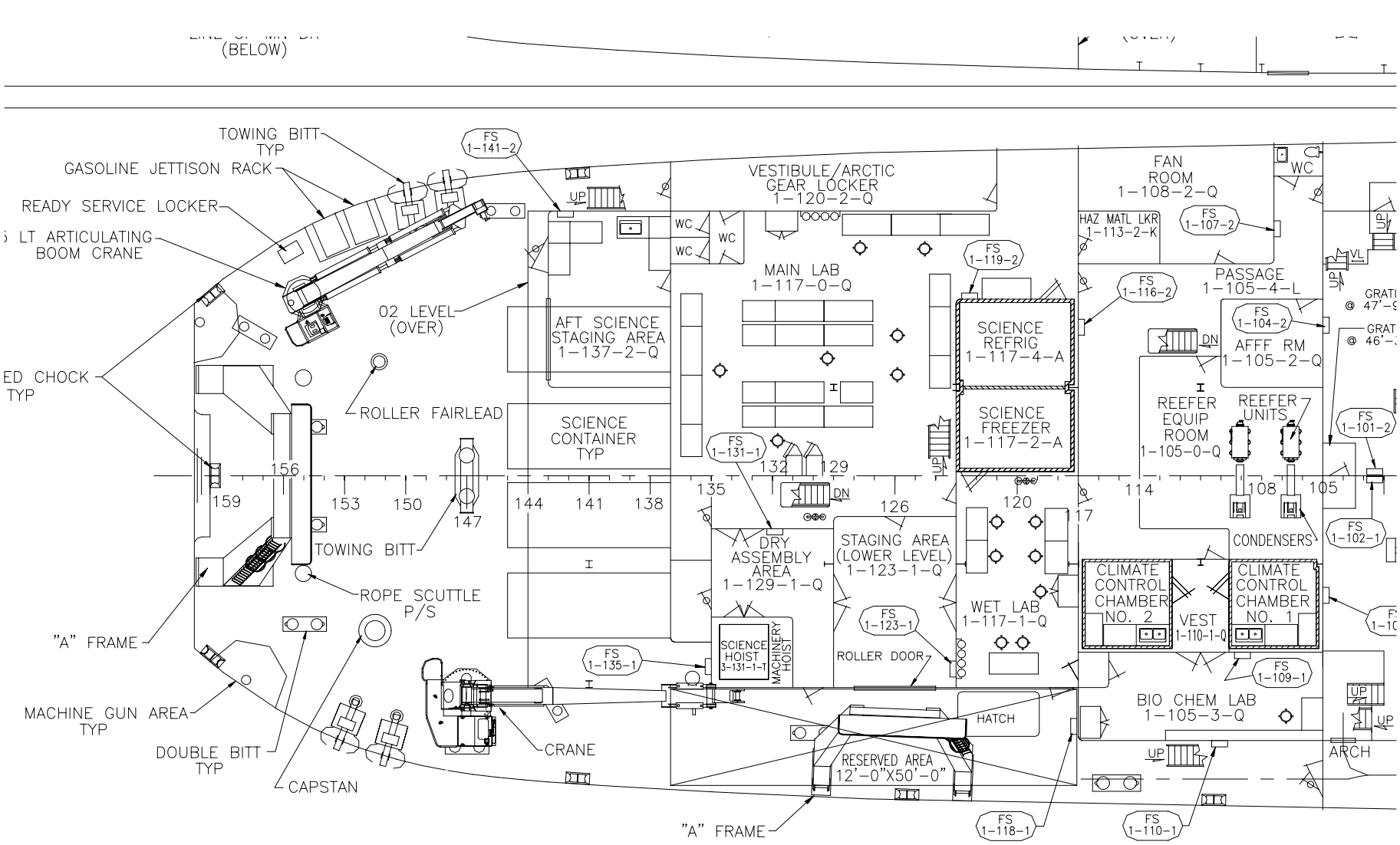

5-102-00-V
BALLAST
5-117-6-W
SHAFT ALLEY
ACCESS
(P/S)
JP5
3-117-2-J
MOTOR ROOM
(UPPER LVL)
4-102-0-E
MAIN
PROPL
MOTOR
FS
2-118-2
FS
3-126-2
FS
2-119-2
FS
2-116-2
BALLAST
4-135-2-W
JP5 SERVICE TK
SCIENTIFIC
CARGO HOLD #1
3-126-0-AA
JP5 PUMP
ROOM
3-117-0-E
ESC
TRK
138
132
129
111
105
141
135
120
117
114
JP5 SERVICE
OVERFLOW TK
DIRTY OIL STORAGE
FS
3-134-1
BALLAST
4-135-1-W
JP5 SERVICE
TANK
SCIENCE
HOIST
3-131-1-T
JP5
3-117-1-J
HYD SYS
EQ RM
3-113-5-E
MAIN
PROPL
MOTOR
DIRTY OIL STORAGE
BALLAST
5-117-5-W
VOID
5-102-00-V
UP
DN


FS
2-135-2
132
129
135
UP
DN
144
141
126
123
120
117
CYC
CYC
FS
2-127-2
FS
2-122-4
FS
2-122-2
FS
2-116-1
SCIENTIFIC
CARGO
HOLD
NO. 3
2-126-0-AA
OCEANOGRAPHIC
WINCH
SCIENCE
HOIST
3-131-1-T
SCIENTIFIC
CARGO HOLD NO.2
2-117-0-AA
HATCH
(OVER)
TRANS
2
FS
2-146-1
5-



CAGE	USCG DWG NO	SH	REV


Main Deck
Bow
02 Deck
Midship
Main Deck
Fantail
Storage Vans (no power) on the bow
Two new Lab Van spots being added November 2014. (O2 porch, below the Bridge)
General Van (with power connections available)
Lab Van (with Main Lab access)
Lab Van (with Main Lab access
General Van (with power connections available)


(BELOW)
TOWING BITT TYP
GASOLINE JETTISON RACK
READY SERVICE LOCKER
LT ARTICULATING BOOM CRANE
ED CHOCK TYP
02 LEVEL (OVER)
ROLLER FAIRLEAD
TOWING BITT
ROPE SCUTTLE P/S
"A" FRAME
MACHINE GUN AREA TYP
DOUBLE BITT TYP
CAPSTAN
CRANE
"A" FRAME
FS 1-141-2
VESTIBULE/ARCTIC GEAR LOCKER 1-120-2-Q
AFT SCIENCE STAGING AREA 1-137-2-Q
SCIENCE CONTAINER TYP
MAIN LAB 1-117-0-Q
SCIENCE REFRIG 1-117-4-A
SCIENCE FREEZER 1-117-2-A
DRY ASSEMBLY AREA 1-129-1-Q
STAGING AREA (LOWER LEVEL) 1-123-1-Q
SCIENCE HOIST 3-131-1-T
MACHINERY HOIST
ROLLER DOOR
WET LAB 1-117-1-Q
HATCH
RESERVED AREA 12'-0"X50'-0"
FAN ROOM 1-108-2-Q
HAZ MATL LKR 1-113-2-K
PASSAGE 1-105-4-L
AFFF RM 1-105-2-Q
REEFER EQUIP ROOM 1-105-0-Q
REEFER UNITS
CONDENSERS
CLIMATE CONTROL CHAMBER NO. 2
VEST 1-110-1-Q
CLIMATE CONTROL CHAMBER NO. 1
BIO CHEM LAB 1-105-3-Q
ARCH
FS 1-131-1
FS 1-135-1
FS 1-123-1
FS 1-119-2
FS 1-116-2
FS 1-107-2
FS 1-104-2
FS 1-101-2
FS 1-102-1
FS 1-109-1
FS 1-118-1
FS 1-110-1
UP
DN
WC
VL
156
159
153
150
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132
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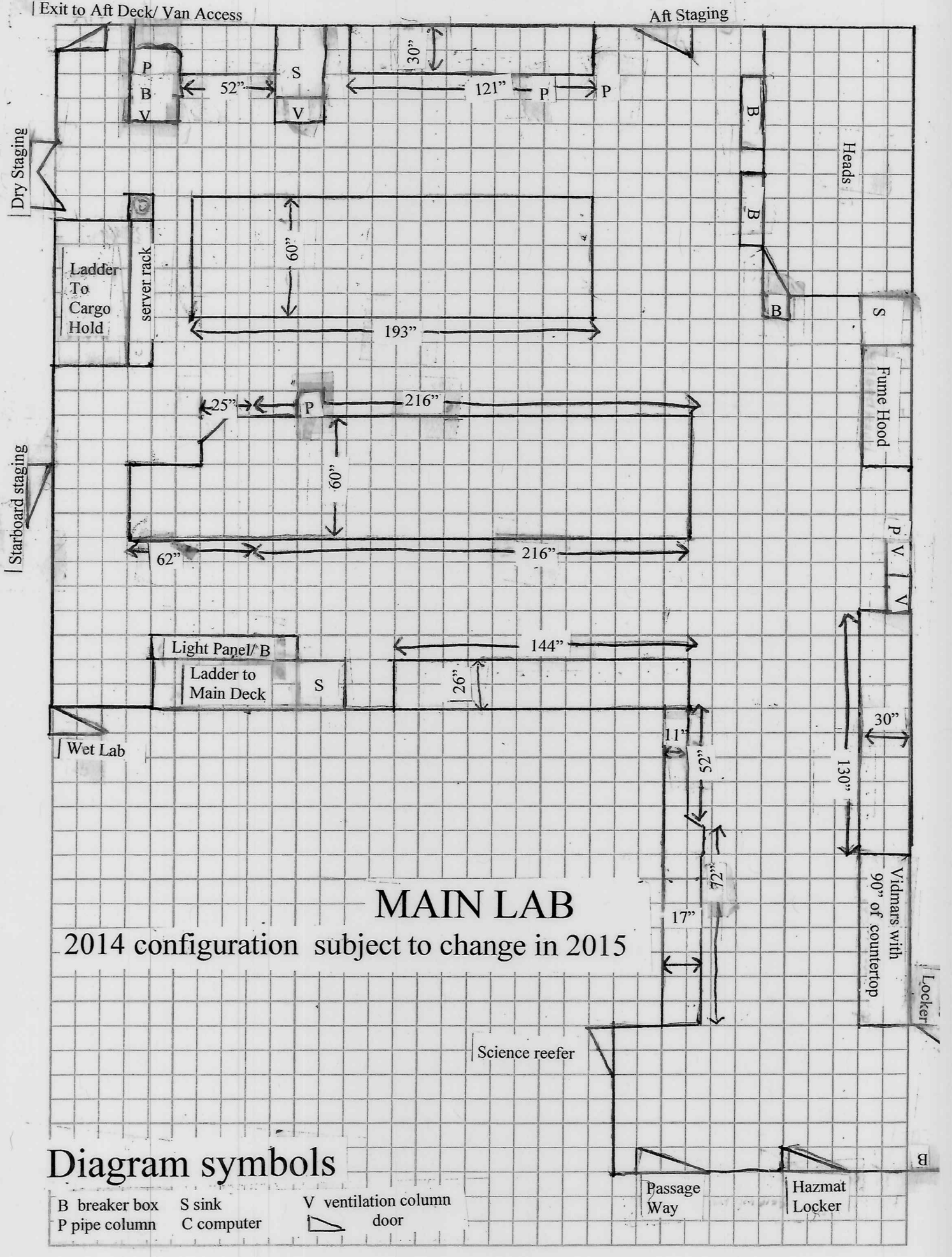
117
114
108
105

	12	11	10

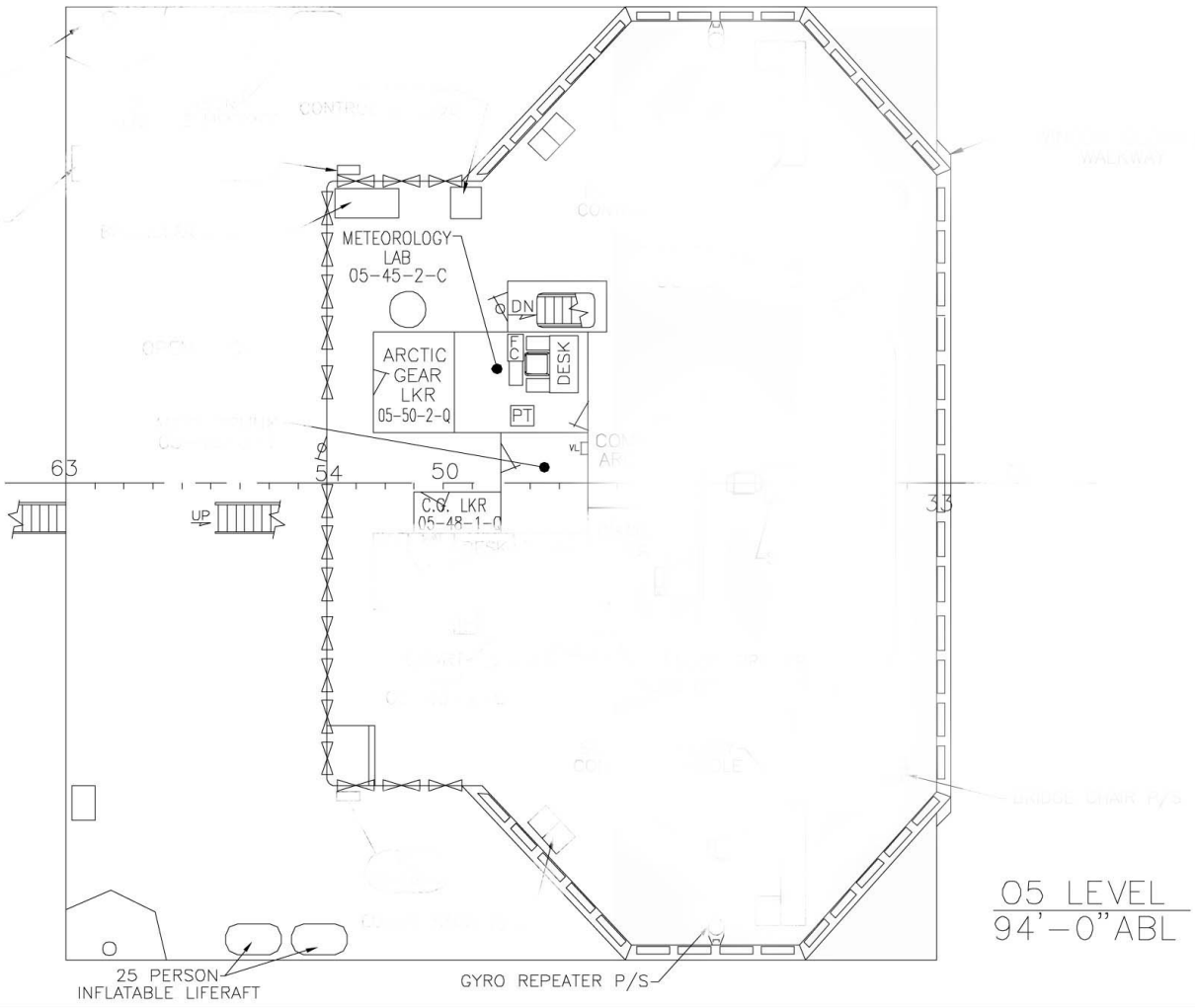


MAIN LAB

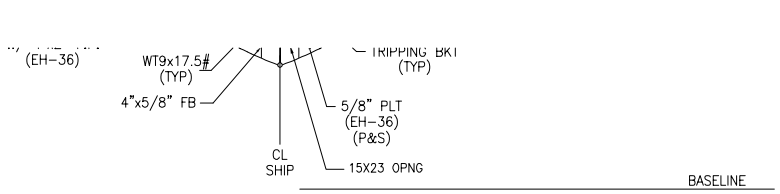
2014 configuration subject to change in 2015

Diagram symbols

B breaker box
P pipe column
S sink
C computer
V ventilation column
door

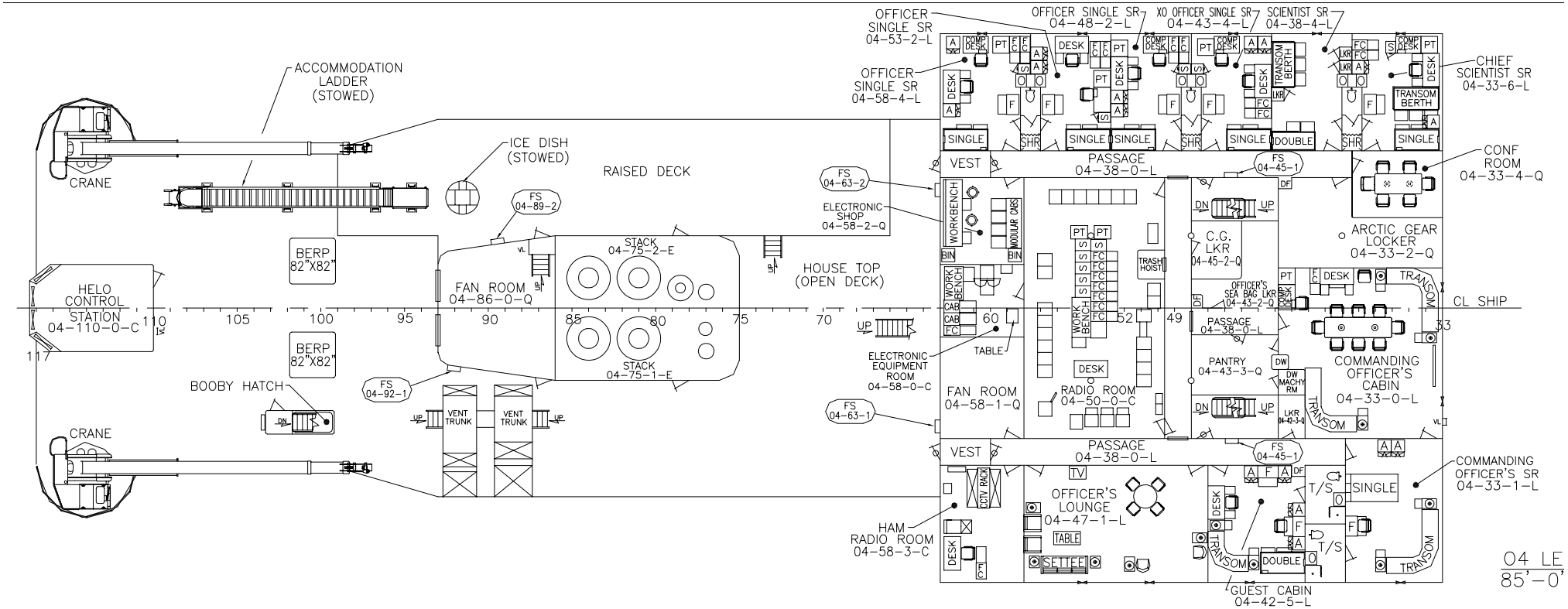


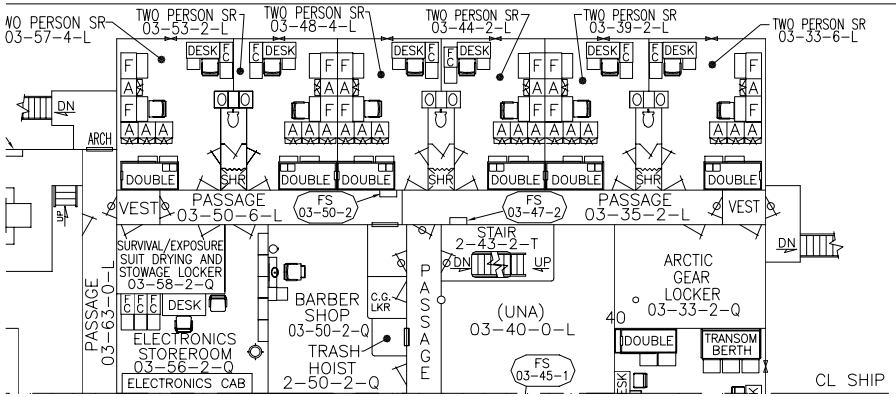
05 LEVEL
94'-0" ABL

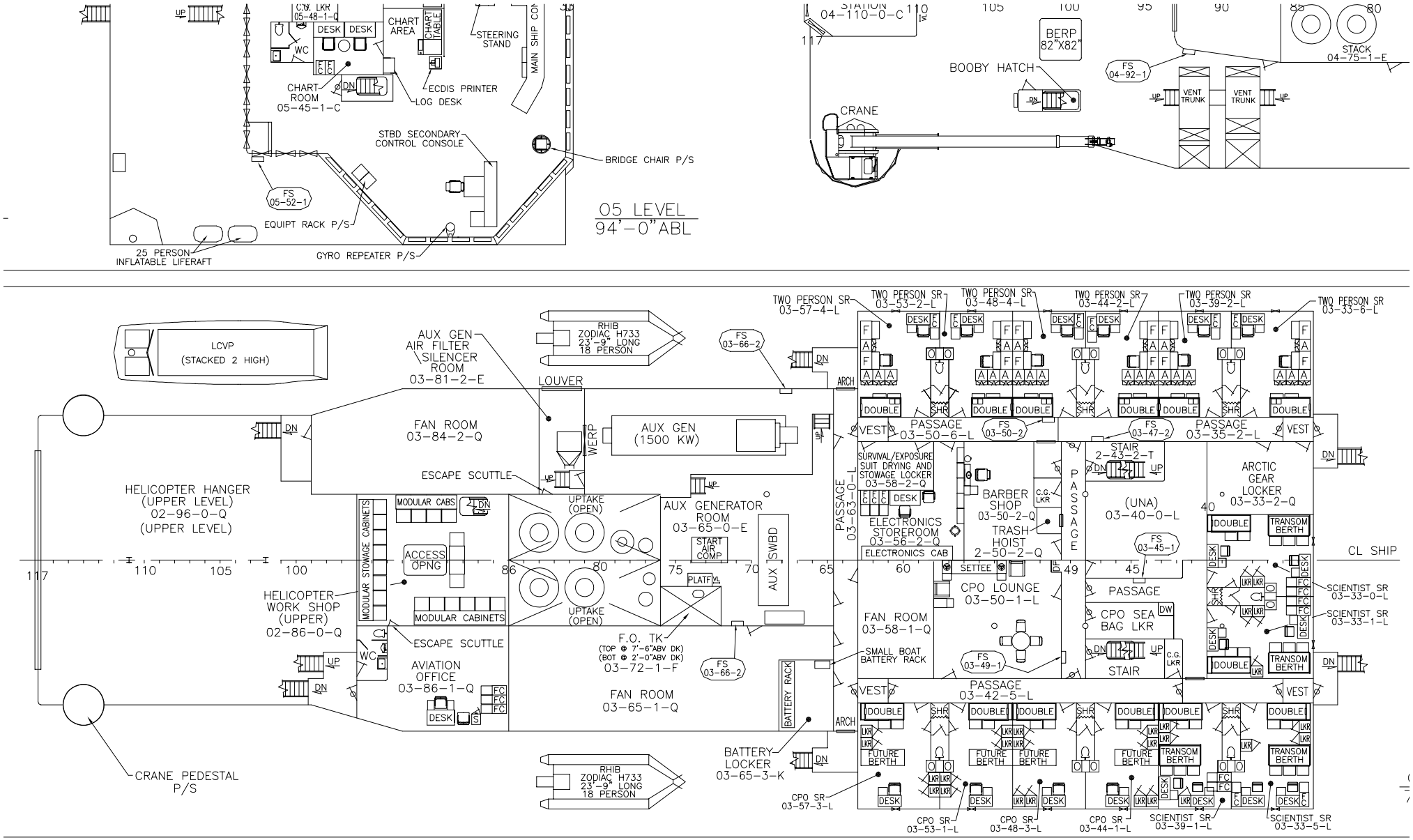


TRANSV WEB FR 15
LKG FWD

TRANSVERSE FR 5
LOOKING FWD

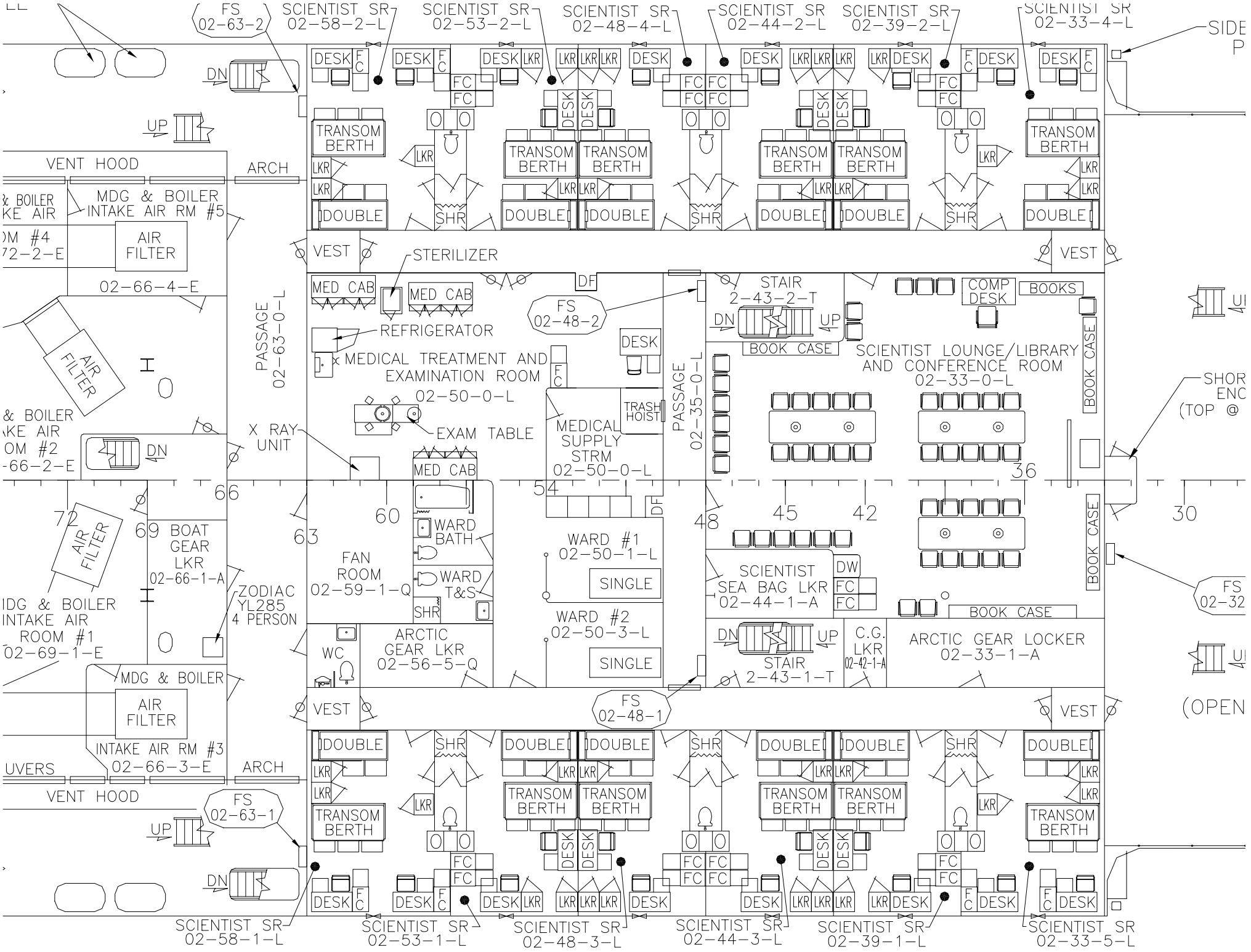




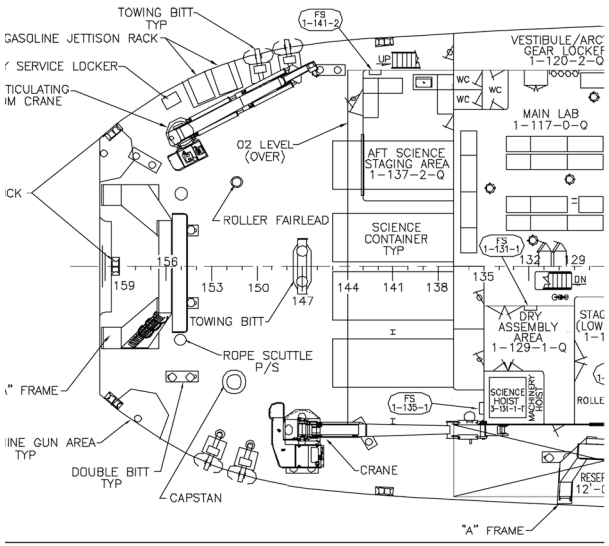


FSCM	USCG DWG NO	SH	REV
81340	420 WAGB 801-001	5	–

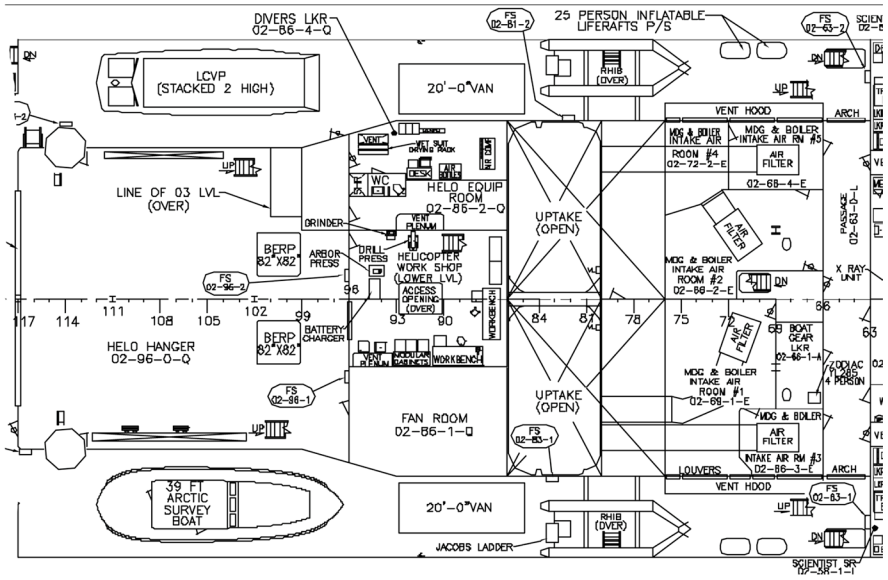
10 | 9 | 8 | 7


FS 02-63-2
SCIENTIST SR 02-58-2-L
SCIENTIST SR 02-53-2-L
SCIENTIST SR 02-48-4-L
SCIENTIST SR 02-44-2-L
SCIENTIST SR 02-39-2-L
SCIENTIST SR 02-33-4-L
SIDE P
DN
UP
VENT HOOD
ARCH
MDG & BOILER INTAKE AIR RM #5
AIR FILTER
02-66-4-E
TRANSOM BERTH
DOUBLE
SHR
LKR
DESK
FC
VEST
STERILIZER
MED CAB
REFRIGERATOR
MEDICAL TREATMENT AND EXAMINATION ROOM
02-50-0-L
EXAM TABLE
X RAY UNIT
PASSAGE 02-63-0-L
PASSAGE 02-35-0-L
FS 02-48-2
DF
TRASH HOIST
MEDICAL SUPPLY STRM 02-50-0-L
STAIR 2-43-2-T
BOOK CASE
COMP DESK
BOOKS
SCIENTIST LOUNGE/LIBRARY AND CONFERENCE ROOM
02-33-0-L
SHOR ENC (TOP @
66
60
54
48
45
42
36
30
72
69
63
BOAT GEAR LKR 02-66-1-A
ZODIAC YL285 4 PERSON
FAN ROOM 02-59-1-Q
WARD BATH
WARD T&S
WARD #1 02-50-1-L
SINGLE
WARD #2 02-50-3-L
SCIENTIST SEA BAG LKR 02-44-1-A
DW
ARCTIC GEAR LKR 02-56-5-Q
WC
STAIR 2-43-1-T
C.G. LKR 02-42-1-A
ARCTIC GEAR LOCKER 02-33-1-A
FS 02-32
(OPEN
MDG & BOILER INTAKE AIR ROOM #1 02-69-1-E
INTAKE AIR RM #3 02-66-3-E
UVERS
FS 02-48-1
FS 02-63-1
SCIENTIST SR 02-58-1-L
SCIENTIST SR 02-53-1-L
SCIENTIST SR 02-48-3-L
SCIENTIST SR 02-44-3-L
SCIENTIST SR 02-39-1-L
SCIENTIST SR 02-33-5-L

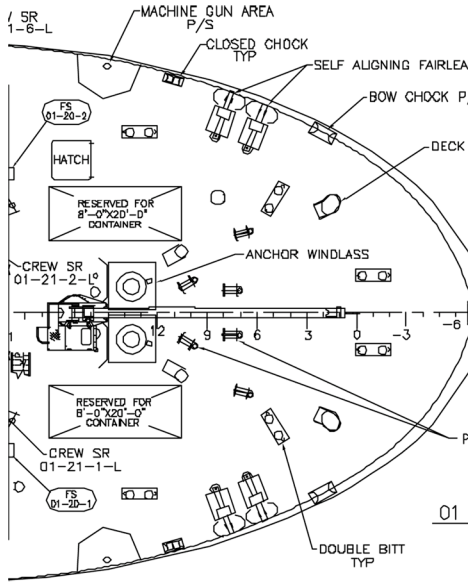
Main Deck Fantail

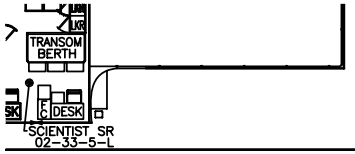


02 Deck Midship



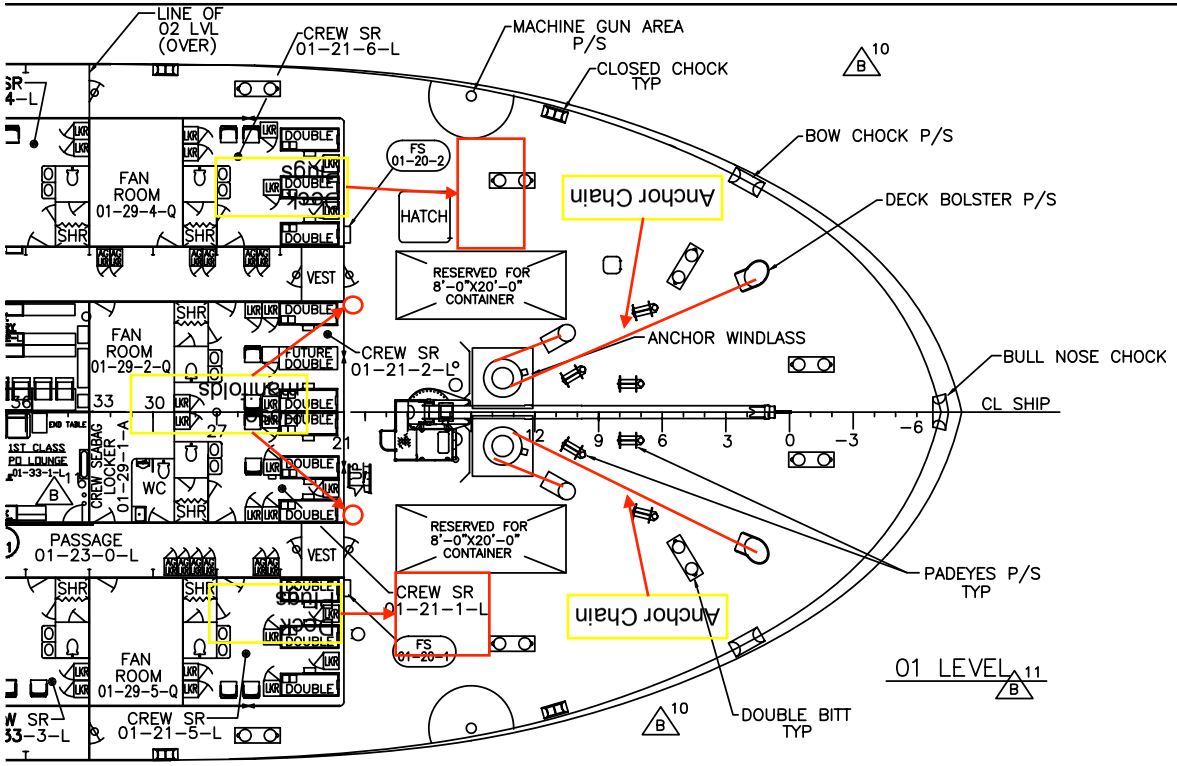
Main Deck Bow



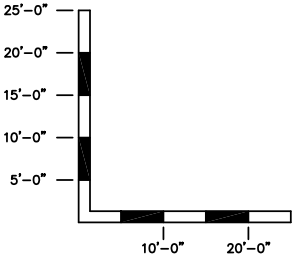


02 LEVEL
65'-0" ABL

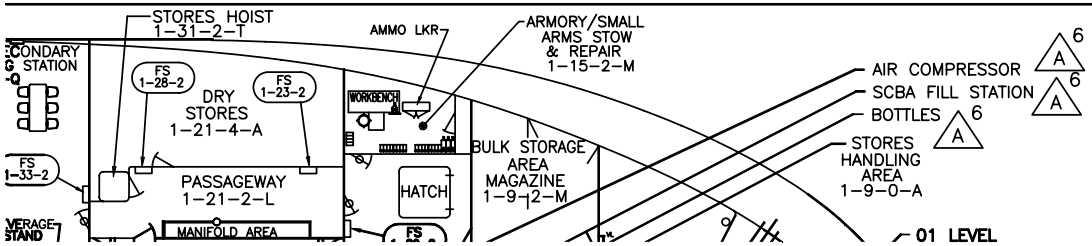
USCG DWG NO 420 WAGB 801-001 PLATE 10



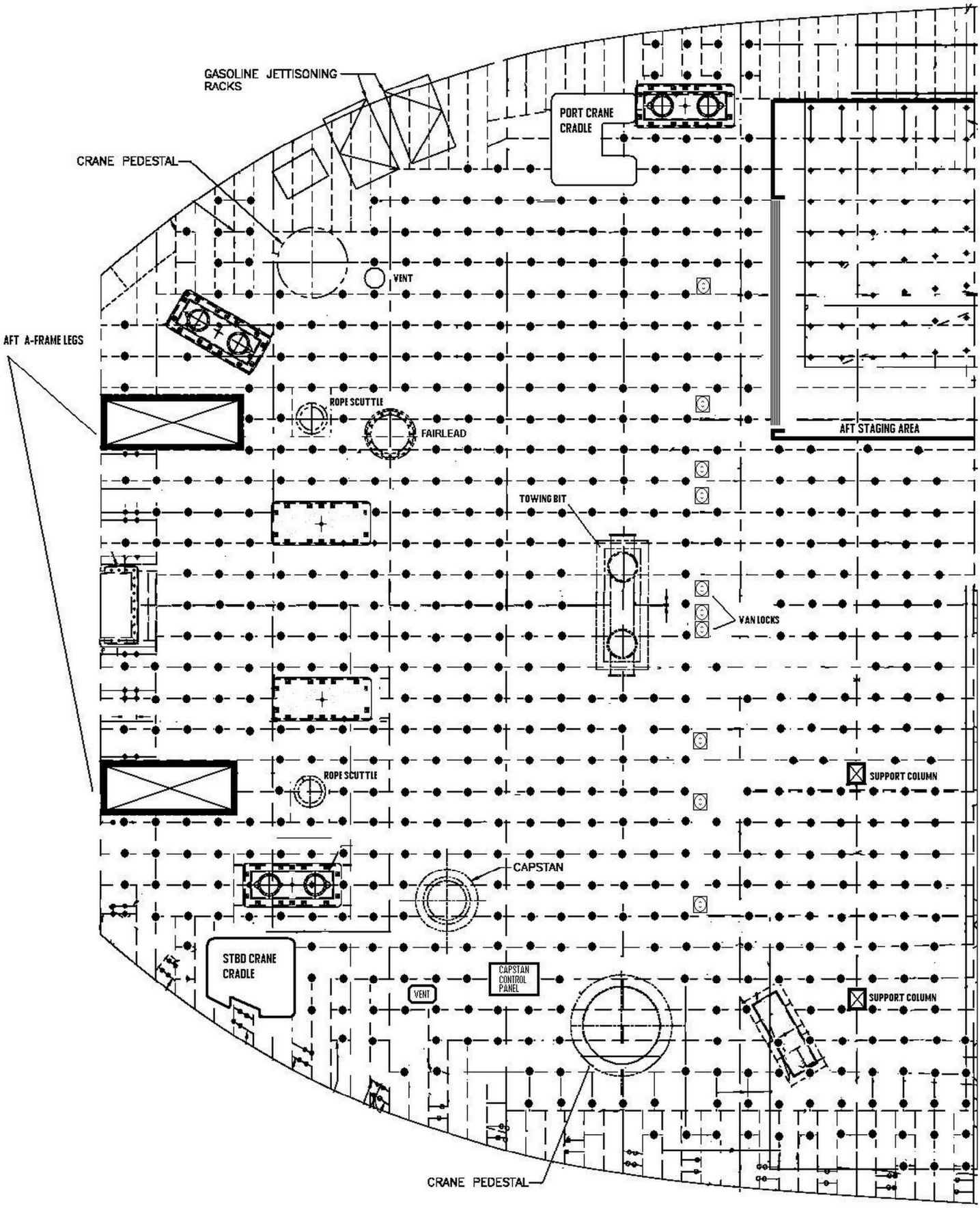
LEGEND
= TABLE W/LAMP
FC = FILE CABINET
= ARCTIC GEAR LOCKER



USCG DWG NO 420 WAGB 801-001 PLATE 9



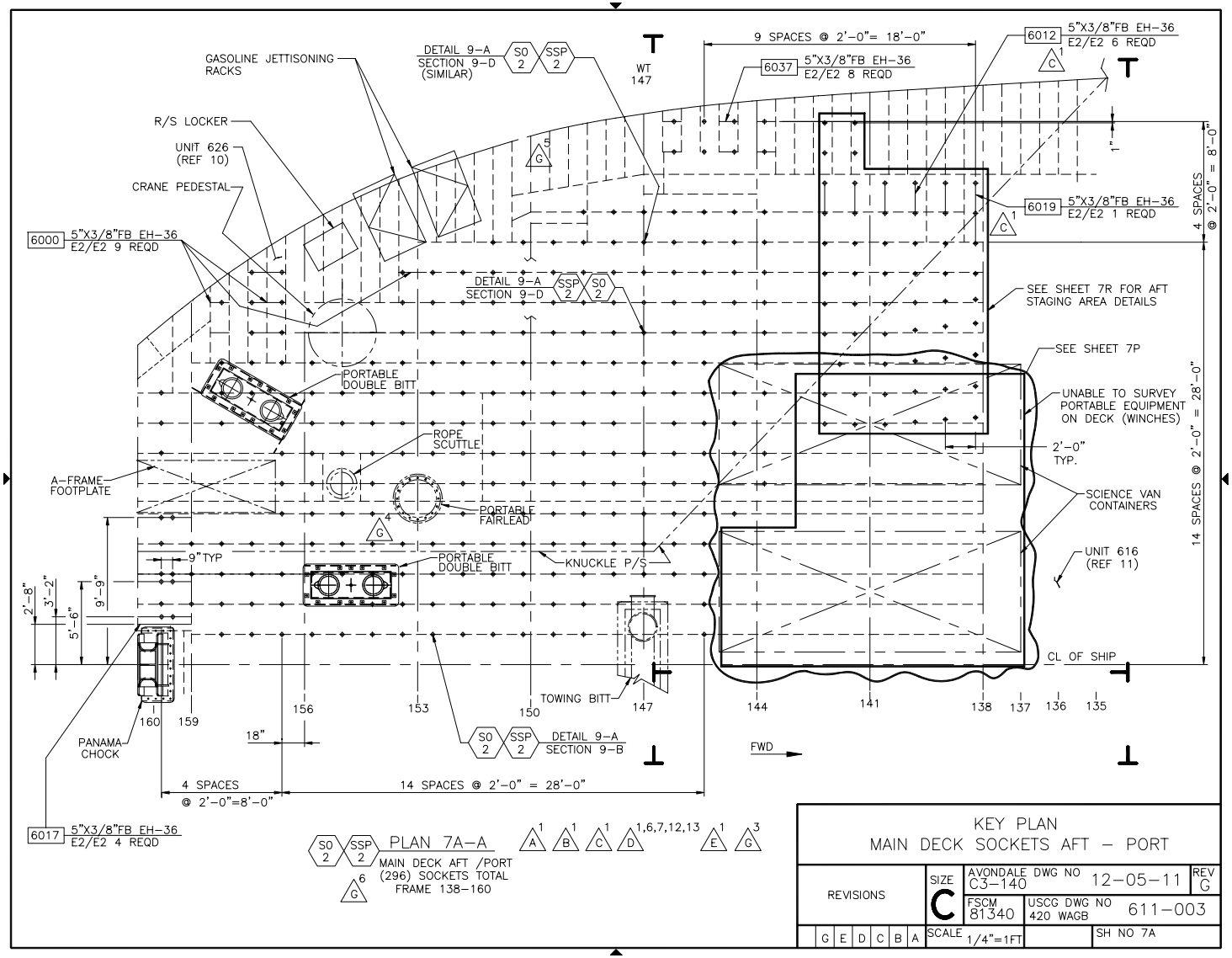
LEGEND
= SAFE
FC = FILE CABINET

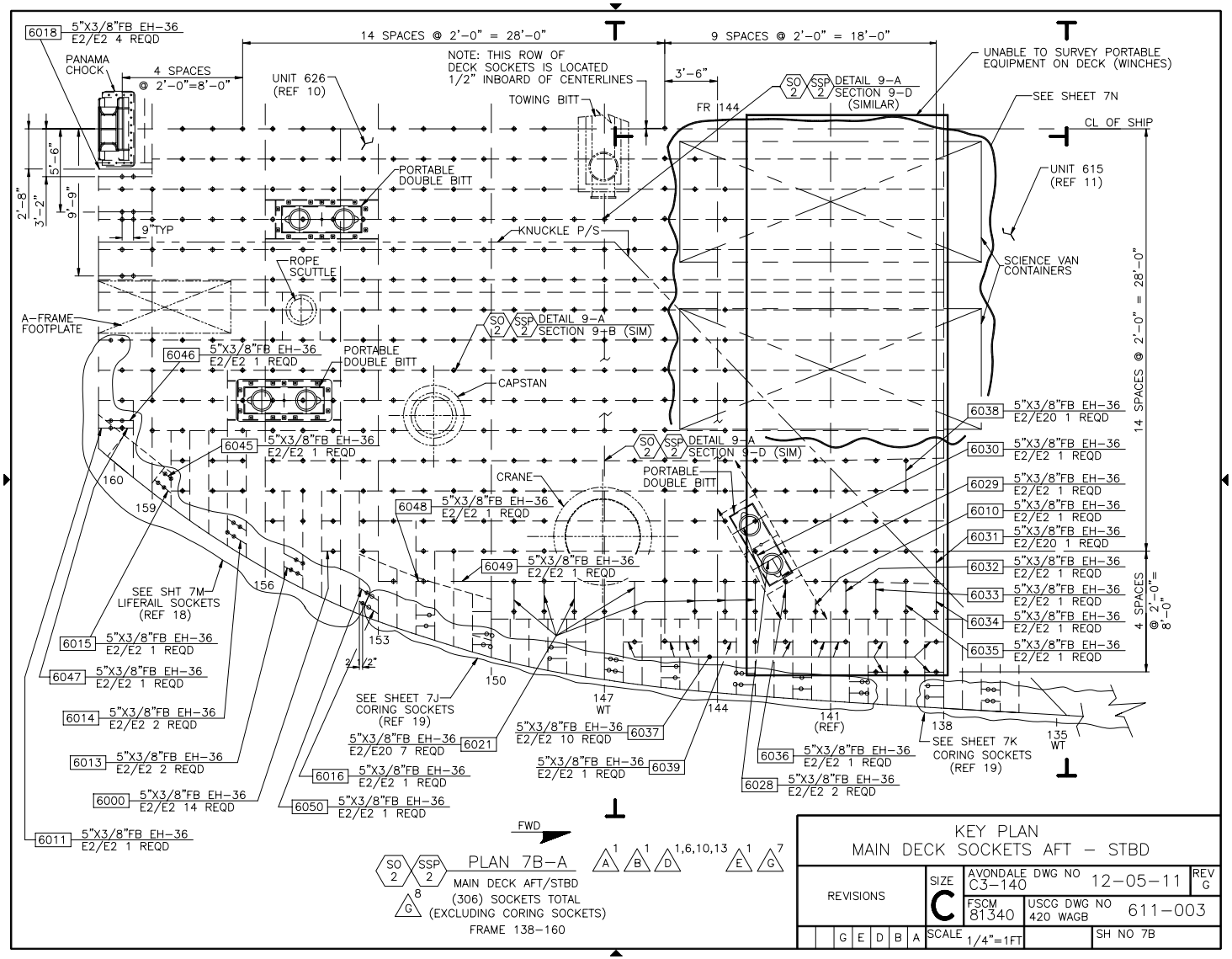


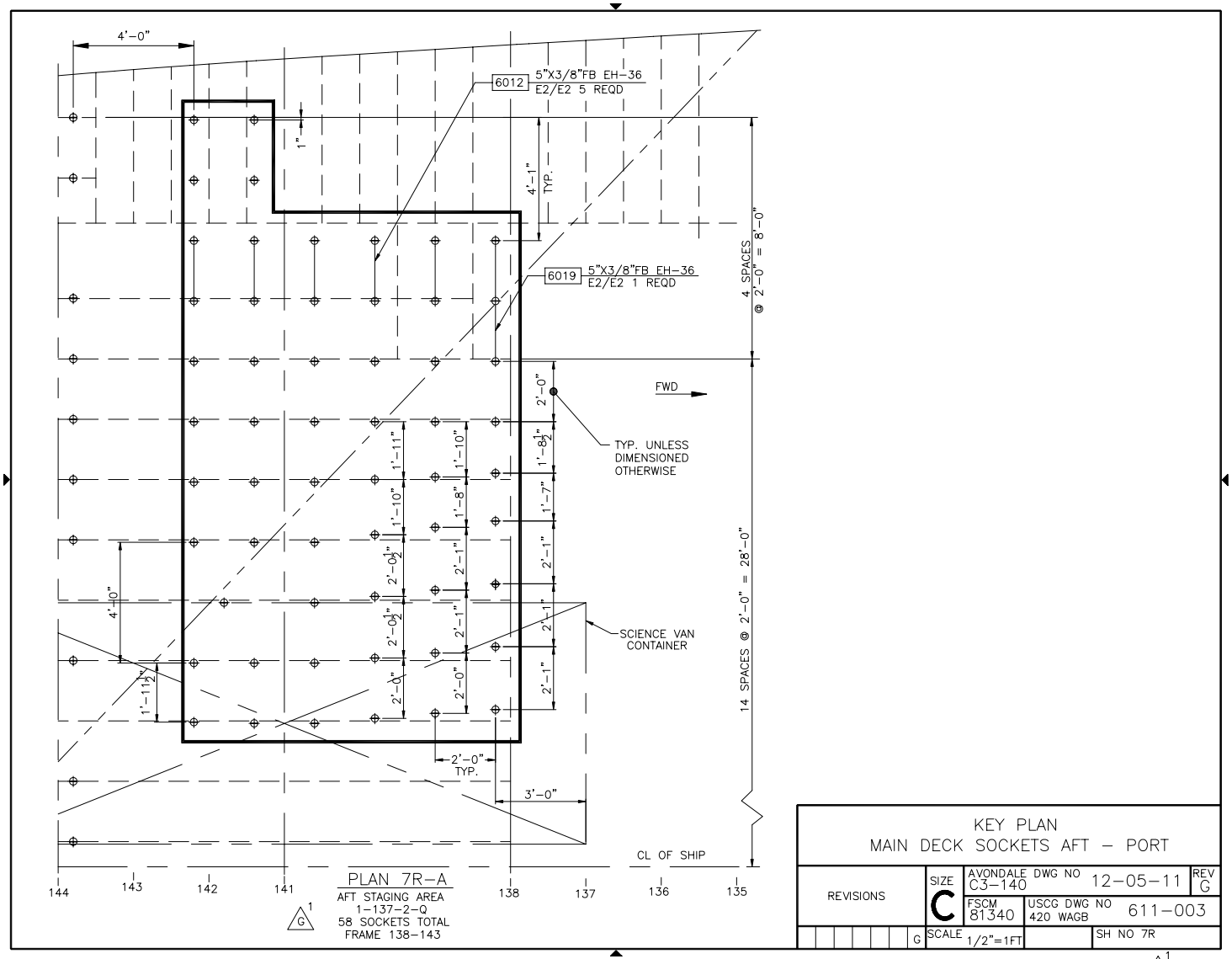
USCGC HEALY (WAGB -20)

LAST UPDATED: MAY 2012

AFT WORKING DECK SOCKET ARRANGEMENT


GASOLINE JETTISONING RACKS
DETAIL 9-A SECTION 9-D (SIMILAR) SO 2 SSP 2
WT 147
9 SPACES @ 2'-0"= 18'-0"
6012 5"X3/8"FB EH-36 E2/E2 6 REQD
6037 5"X3/8"FB EH-36 E2/E2 8 REQD
R/S LOCKER
UNIT 626 (REF 10)
CRANE PEDESTAL
6019 5"X3/8"FB EH-36 E2/E2 1 REQD
6000 5"X3/8"FB EH-36 E2/E2 9 REQD
4 SPACES @ 2'-0" = 8'-0"
DETAIL 9-A SECTION 9-D SSP 2 SO 2
SEE SHEET 7R FOR AFT STAGING AREA DETAILS
SEE SHEET 7P
PORTABLE DOUBLE BITT
UNABLE TO SURVEY PORTABLE EQUIPMENT ON DECK (WINCHES)
ROPE SCUTTLE
2'-0" TYP.
A-FRAME FOOTPLATE
PORTABLE FAIRLEAD
SCIENCE VAN CONTAINERS
9"TYP
PORTABLE DOUBLE BITT
KNUCKLE P/S
UNIT 616 (REF 11)
14 SPACES @ 2'-0" = 28'-0"
2'-8"
3'-2"
5'-6"
9'-9"
CL OF SHIP
TOWING BITT
160
159
156
153
150
147
144
141
138
137
136
135
PANAMA CHOCK
18"
SO 2 SSP 2 DETAIL 9-A SECTION 9-B
FWD
4 SPACES @ 2'-0"=8'-0"
14 SPACES @ 2'-0" = 28'-0"
6017 5"X3/8"FB EH-36 E2/E2 4 REQD
SO 2 SSP 2 PLAN 7A-A
MAIN DECK AFT /PORT
(296) SOCKETS TOTAL
FRAME 138-160
KEY PLAN
MAIN DECK SOCKETS AFT - PORT
REVISIONS
SIZE C
AVONDALE DWG NO C3-140 12-05-11 REV G
FSCM 81340
USCG DWG NO 420 WAGB 611-003
G E D C B A
SCALE 1/4"=1FT
SH NO 7A


6018 5"X3/8"FB EH-36 E2/E2 4 REQD
14 SPACES @ 2'-0" = 28'-0"
9 SPACES @ 2'-0" = 18'-0"
PANAMA CHOCK
4 SPACES @ 2'-0"=8'-0"
UNIT 626 (REF 10)
NOTE: THIS ROW OF DECK SOCKETS IS LOCATED 1/2" INBOARD OF CENTERLINES
TOWING BITT
3'-6"
FR 144
SO 2 SSP 2 DETAIL 9-A SECTION 9-D (SIMILAR)
UNABLE TO SURVEY PORTABLE EQUIPMENT ON DECK (WINCHES)
SEE SHEET 7N
CL OF SHIP
UNIT 615 (REF 11)
SCIENCE VAN CONTAINERS
14 SPACES @ 2'-0" = 28'-0"
4 SPACES @ 2'-0"= 8'-0"
PORTABLE DOUBLE BITT
KNUCKLE P/S
ROPE SCUTTLE
9"TYP
2'-8"
3'-2"
5'-6"
9'-9"
A-FRAME FOOTPLATE
SO 2 SSP 2 DETAIL 9-A SECTION 9-B (SIM)
6046 5"X3/8"FB EH-36 E2/E2 1 REQD
PORTABLE DOUBLE BITT
CAPSTAN
6045 5"X3/8"FB EH-36 E2/E2 1 REQD
SO 2 SSP 2 DETAIL 9-A SECTION 9-D (SIM)
PORTABLE DOUBLE BITT
CRANE
6048 5"X3/8"FB EH-36 E2/E2 1 REQD
6049 5"X3/8"FB EH-36 E2/E2 1 REQD
6038 5"X3/8"FB EH-36 E2/E20 1 REQD
6030 5"X3/8"FB EH-36 E2/E2 1 REQD
6029 5"X3/8"FB EH-36 E2/E2 1 REQD
6010 5"X3/8"FB EH-36 E2/E2 1 REQD
6031 5"X3/8"FB EH-36 E2/E20 1 REQD
6032 5"X3/8"FB EH-36 E2/E2 1 REQD
6033 5"X3/8"FB EH-36 E2/E2 1 REQD
6034 5"X3/8"FB EH-36 E2/E2 1 REQD
6035 5"X3/8"FB EH-36 E2/E2 1 REQD
160
159
156
153
150
147 WT
144
141 (REF)
138
135 WT
2 1/2"
SEE SHT 7M LIFERAIL SOCKETS (REF 18)
6015 5"X3/8"FB EH-36 E2/E2 1 REQD
6047 5"X3/8"FB EH-36 E2/E2 1 REQD
6014 5"X3/8"FB EH-36 E2/E2 2 REQD
6013 5"X3/8"FB EH-36 E2/E2 2 REQD
6000 5"X3/8"FB EH-36 E2/E2 14 REQD
6011 5"X3/8"FB EH-36 E2/E2 1 REQD
SEE SHEET 7J CORING SOCKETS (REF 19)
5"X3/8"FB EH-36 E2/E20 7 REQD 6021
6016 5"X3/8"FB EH-36 E2/E2 1 REQD
6050 5"X3/8"FB EH-36 E2/E2 1 REQD
5"X3/8"FB EH-36 E2/E2 10 REQD 6037
5"X3/8"FB EH-36 E2/E2 1 REQD 6039
6036 5"X3/8"FB EH-36 E2/E2 1 REQD
6028 5"X3/8"FB EH-36 E2/E2 2 REQD
SEE SHEET 7K CORING SOCKETS (REF 19)
FWD
SO 2 SSP 2 PLAN 7B-A
A1 B1 D1,6,10,13 E1 G7
G8
MAIN DECK AFT/STBD
(306) SOCKETS TOTAL
(EXCLUDING CORING SOCKETS)
FRAME 138-160
KEY PLAN
MAIN DECK SOCKETS AFT - STBD
REVISIONS
SIZE C
AVONDALE DWG NO C3-140
12-05-11
REV G
FSCM 81340
USCG DWG NO 420 WAGB
611-003
G E D B A
SCALE 1/4"=1FT
SH NO 7B



PLAN 7R-A
AFT STAGING AREA
1-137-2-Q
58 SOCKETS TOTAL
FRAME 138-143

G 1

KEY PLAN
MAIN DECK SOCKETS AFT - PORT

REVISIONS	SIZE C	AVONDALE DWG NO C3-140 12-05-11	REV G
		FSCM 81340	USCG DWG NO 420 WAGB 611-003
G	SCALE 1/2"=1FT		SH NO 7R

G 1

Healy Personnel

Current
Past

Present Officer & Marine Science Personnel

Captain Jason Hamilton

Commanding Officer

Jason.R.Hamilton at uscg.mil

Captain Jason Hamilton assumed command on June 2, 2015. As CO, Captain Hamilton is responsible for the overall safety of the ship and crew, as well as the successful completion of HEALY's assigned missions.

Captain Greg Stanclik

Executive Officer

Gregory.Stanclik at uscg.mil

The Executive Officer (or XO) is **Captain Greg Stanclik**. Captain Stanclik as the XO, is responsible for the day to day operations onboard the ship, as well as carrying out all the administrative tasks and responsibilities necessary in making HEALY's missions successful. CDR Karl Lander will take over as XO in July 2015.

Lieutenant Commander Christopher Dufresne

Engineering Officer

Christopher.P.Dufresne at uscg.mil

The Engineer Officer (or EO) is Lieutenant Commander Christopher Dufresne. LCDR Dufresne is responsible for the operation and maintenance of the most complex and technologically advanced power plant in operation within the Coast Guard. In addition, he provides support for all shipboard scientific hardware and equipment.

Lieutenant Commander William Woityra

Operations Officer

William.C.Woityra at uscg.mil

The Operations Officer (or OPS) is **Lieutenant Commander Bill Woityra**. As OPS, LCDR Woityra oversees the daily operations of HEALY, including coordinating science mission support, information technology systems and medical support.

BOSN Tim Tully

Boatwain

Timothy.R.Tully at uscg.mil

The Boatswain overseas the deck department and all deck operations.

LTJG Carolyn Mahoney

Marine Scince Officer

Carolyn.S.Mahoney at uscg.mil

The Marine Science Officer (MSO) onicer (MSO) onboard Healy acts as the onboard liaison between the science personnel and the Healy command. The MSO also coordinates the day to day science deck operations.

MSTC Karen Aquino

Marine Science Technician Chief

Karen.A.Aquino at uscg.mil

MSTC Karen Aquino is the Marine Science Technician Chief. MSTC Aqunio is the chief of the enlisted personnel in the Marine Science Technician division. The MSTs provide deck support for deploying science gear and work closly with the scientists during cruises.

In 2015, two new incomining MSTs will be joining the Healy this summer.

Beginning in 2012 the Boatswain Mates took a significant role in the Healy science deck operations. The Deck Division is comprised of boatswain mates and deck non-rates who assist with the over-the-side deployment of science gear, operate cranes and small boats, and act as deck safety and deployment supervisors.

The Healy BOSN is Tim Tully, Timothy.R.Tully at uscg.mil
Deck Division chief is BMC Chris Lobherr, John.C.Lobherr at uscg.mil
BMs on Healy are: BM2 Kevin Lekich, BM2 Julia Kinney, BM2 Jerry Speicher, BM3 Ben Ahlin, BM3 Kelly Coleman and BM3 Dan Gomes.

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Past Officer & Marine Science Personnel

Comanding Officer (CO)

2013-2015 **Captain John Reeves**
2011-2013 Captain Beverly Havlik
2010-2011 **William Rall**
2008-2010 **Frederick Sommer**
2006-2008 **Tedrick Lindstrom**
2006 **Douglas G. Russell**
2003-2006 **Daniel K. Oliver**
2001-2003 **David J. Visneski**
1999-2001 Jeffrey M. Garrett

Executive Officer (XO)

2011-2013 CDR Greg Tlapa
2009-2011 **John Reeves**
2007-2009 Dale Bateman
2005-2007 **Jeffrey Jackson**
2003-2005 **William Rall**
2001-2003 **Douglas G. Russell**
1999-2001 **Dan Oliver**

Engineer Officer (EO)

2011-2014 Thomas Lowry
2010-2011 **Laura King**
2008-2010 Doug Petrusa
2006-2008 **Mark Hammond**
2004-2006 **John Reeves**
2002-2004 Gregory Stanclik
1999-2002 Neil Meister

Operations Officer (OPS)

2012-2014 Jake Cass
2009-2011 **Eric St. Pierre**
2007-2009 **Jeff Stewart**
2005-2007 **James Dalitsch**
2003-2005 **Daryl Peloquin**
2001-2003 **Joseph Segalla**
1999-2001 David Vaughn

Marine Science Officer (MSO)

2013-2014 Rebecca Folmer
2012-2013 Erin Sheridan

2011-2012 LTJG Evan Steckle
2010-2011 **Chris Skapin (NOAA)**
2008-2010 Silas Ayers (NOAA)
2007-2008 **Brian Wagonseller (NOAA)**
2006-2007 **Stephen Elliot**
2005-2006 **Jessica Hill**
2003-2005 Neal Amaral
2001-2003 Michael Woodrum
1999-2001 Todd Adrian

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In-Port Contact Information
Iridium & Inmarsat
Healy Marine Science Coordinator

In-Port Contact Information

To contact the Healy while in port call: (206) 217-6300

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Iridium & Inmarsat

Land to Iridium

- 808-659-9440
- 808-659-5000

Iridium To Iridium

- 88-167-631-9440
- 88-167-631-5000

Inmarsat

- 011-874-763-709-857

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Healy Marine Science Coordinator

Dave Forcucci is HEALY's Marine Science Coordinator and can be contacted for question regarding science programs or facilities on HEALY. He may be reached at: David.Forcucci@uscg.mil or by calling (206)217-6648 FAX: (206)217-6779.

The HEALY Marine Science Coordinator is located at Pier 36 in Seattle, Washington. As soon as possible after a science cruise has been scheduled, a planning meeting with principal investigators will be arranged. Ideally, this meeting will be held aboard HEALY to begin detailed development of a cruise plan.

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