

SAN FRANCISCO 7, CALIFORNIA

OPERATION NUMBER: MSTSP-52-110

26 November 1952

SPECIFICATIONS

For

VOYAGE REPAIRS

To

~~DESK~~

USNS

GENERAL JOHN POPE (T-AP 110)

Principal Dimensions

Length _____
Breadth _____
Depth _____
Gross Tonnage _____
U.S. Maritime Commission Design _____

Work to start on or about: 26 November 1952

All work to be completed on or before: 1 December 1952 - 2400

Contractor shall schedule the work so as not to interfere with operations which include, but are not limited to, fueling, shifting, fire and lifeboat drills, and stevedoring. Information available at this time indicates that these operations will be conducted in accordance with the schedule given below. Contractor shall keep in touch with the MSTSP Inspector for purposes of ascertaining changes which may become necessary, and will be advised by the Inspector of such changes prior to 1:00 p.m. of the day preceding the day on which the evolution will take place.

Fueling 25 November 1952 - 1600 - 2400 1 December 1952 0800 - 2400
Shifting ID#3 26 November 1952 1700 Fort Mason 2 December 1952 - 0700

The contractor shall plan and arrange his work so that all engine room items will be completed so as not to interfere with ship's force conducting a dock trial of main propulsion units twenty-four (24) hours prior to scheduled departure of the vessel.

The General Conditions ~~attached to these specifications~~ are a part hereof, and any conflict between these specifications and the Master Contract for the Repair and Alteration of Vessels shall be governed by the provisions of the Master Contract.

These specifications consist of 6 pages, and General Conditions, Pgs. A-J, incl.

PLANNER: HOWARD

APPROVED: Head, Transport

APPROVED: Head, Eng'r Branch

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INFORMATION REGARDING THESE SPECIFICATIONS

ARC WELDING ON WATER BORNE VESSELS

CATEGORY "A" ITEMS

If the work hereinafter specified is performed by the contractor at a Government furnished, or other pier, those services requested by the MSTSP Inspector will result in an additional order, and an equivalent adjustment will be made in the Job Order price.

PRICE	ITEM NO.	WORK REQUIRED
		<u>CATEGORY "A" ITEMS</u>
	2	<p><u>NO. 1 SHIP'S SERVICE GENERATOR GOVERNOR: Code 122</u></p> <p>Completely disassemble the governor and all associated parts including steam admission valves, power piston, liners and overspeed trip mechanism of the No. 1 Ship's Service Generator turbine. Bore out oil power cylinder and install a new liner. Provide and install a new piston. Renew all defective parts with new parts of manufacturer's design. Reassemble unit in good order and conduct an operational test of four (4) hours' duration to prove repairs satisfactory. Set governor to put generator in parallel with other three (3) units.</p>
	3	<p><u>MAIN TURBINE FLEXIBLE COUPLING, LOW PRESSURE, NO. 2 ENGINE ROOM: Code 120</u></p> <p>Accomplish the following repairs to the vessel's DeLaval main propulsion turbine under the supervision of manufacturer's representative, the cost of whose services shall be borne by the contractor.</p> <p>Remove and replace all interferences.</p> <p>Remove the deteriorated flexible coupling from the low pressure turbine, Aft Engine Room.</p> <p>Take and record the total tooth back lash through coupling from pinion to rotor prior to removal.</p> <p>Pick up new high speed flexible coupling from the Material Section, Building 120, Oakland Army Base, uncrate and clean new coupling of all preservative and foreign matter.</p> <p>A.B.S. Surveyor shall witness all above repairs. Services of A.B.S. Surveyor will be furnished by the Government. Install new coupling to the above mentioned unit.</p> <p>Clear coupling oil feed tubings, removing same if crushed, bent or otherwise ineffective for designed oil delivery to coupling teeth.</p> <p>Take and record all pertinent data as regards installed alignment, back lash and clearances, and forward five (5) copies to the Director, Maintenance and Repair Division, 33 Berry Street, San Francisco, via MSRSP Inspector, furnishing one (1) copy to the vessel's Chief Engineer.</p> <p>The removed coupling shall be washed clean, tagged to identify respective parts and removed from Engine Room. Dispose of coupling as directed by Material Section, 33 Berry Street, San Francisco.</p> <p>On completion of all work the unit shall be tested at a dock trial of four (4) hours' duration and at such revolutions as are consistent with the safety of the vessel, to prove all repairs satisfactory.</p>

PRICE	ITEM NO.	WORK DESCRIPTION	MDSBP 53-101
		<p style="text-align: center;"><u>CATEGORY "A" ITEMS</u></p> <p>4. <u>DEGAUSSING CONNECTION BOX:</u> Code 110</p> <p>Remove by grinding or by similar method the defective welding now joining the degaussing cable troughs to the degaussing connection boxes located in forward Troop Head, port and starboard sides. Reweld the cable trough to the degaussing boxes in such manner as to make water tight to boxes.</p> <p>Prime and paint welded areas to match surrounding areas.</p> <p>Open each of the two (2) degaussing connection boxes. Remove all moisture and/or foreign matter. Clean connection blocks with approved type solvent. Tighten all connections. Dry out each box with heater and/or lamps. Megger test cables, record readings and deliver to MDSBP Inspector.</p> <p>Upon completion secure boxes and prove satisfactory.</p> <p>5. <u>WORTHINGTON TRIPLEX MAIN FEED PUMP NO. 4:</u> Code 122</p> <p>Provide labor and material to remove all interferences to remove the pinion and idler gears and shafts from No. 4 Worthington Triplex FEED PUMP.</p> <p>Build up the shafts. Replace any deteriorated bearings with ship-furnished bearings. Take and record back lash of each gear separately and collectively. Submit three (3) copies of readings to Contracting Officer and one (1) copy to Chief Engineer, via MDSBP Inspector.</p> <p>On completion reassemble and prove in good working order to the satisfaction of MDSBP Inspector and the Chief Engineer.</p> <p>Test for two (2) hours under existing working conditions and prove work satisfactory.</p>	

PRICE	ITEM NO.	WORK REQUIRED
<u>CATEGORY "A" ITEMS</u>		
	6	<p><u>LINE SHAFT BEARINGS, STARBOARD</u> Code 120</p> <p>Remove the Number 3 and Number 8 starboard line shaft bearings. Scrape out burned and wiped areas and clean out oil grooves. Properly fit bearings to shaft. After properly marking for identification, remove all chocks from Number 1, Number 3 and Number 8 bearings. Properly align bearings. Remachine or renew chocks as necessary. Reinstall all removals in good order. Check bearings at a dock trial to be conducted at a time designated by the Chief Engineer. Prove repairs satisfactory.</p>
	7	<p><u>MAIN STEAM LINE JOINTS REPAIRS TO</u> Code 126</p> <p>Provide labor and material to remove the insulation over the inlet flanges to the superheater stop valves, a total of two (2), and the one (1) outlet flange at Number 4 superheater stop valve. Remove the defective gaskets, fair up flange faces, true gasket lands and renew all gaskets.. Replace all removals.</p> <p>On completion test and prove in good working order. Replace the flange insulation with high temperature insulation as original.</p> <p>Location, top of Numbers 3 and 4 boilers at "B" Deck level.</p>
	8	<p><u>DEAERATING DRAIN LINE</u> Code 126</p> <p>Remove a ten (10) foot section of deteriorated one and one-half (1-1/2) inch drain line from deaerating feed heater as designated by Chief Engineer.</p> <p>Fabricate and install a new section equal and similar to existing when new, including all new fittings and flanges.</p> <p>Test and prove tight.</p>

PRICE	ITEM No.	WORK REQUIRED
		<u>CATEGORY "A" ITEMS</u>
	9	<p><u>MASTHEAD LIGHT, RENEWAL OF: (Code 110)</u></p> <p>Disconnect and remove the defective masthead light and its connection box located on the ship's foremast. Provide and install new masthead light, Navy type R-9A, or its equal, and a watertight connection box in lieu of equipment removed. New light shall be of spraytight construction, with external shield for 225° arc of visibility forward. All cable entrances to light and connection box shall be made watertight. Provide and install lamp in new masthead light. Paint disturbed areas to match existing structure.</p> <p>Remove the defective masthead light relay from the running light panel in Pilot House. Provide and install new relay, similar and equal to removed relay when new.</p> <p>Upon completion test masthead light and prove satisfactory.</p>
	10	<p><u>FEED FOR DOUGH MIXER: (Code 151)</u></p> <p>Provide and install approximately fifty (50) feet of twin conductor, lead and armor Number 4 cable, between the power panel located in the troop galley and the motor controller for the dough mixer located in the bakery stowage compartment. The deteriorated cable shall be removed and the new cable shall be run in the existing cable rack. Accomplish all electrical connections and upon completion of work prove operation and installation satisfactory to MSTGP Inspector.</p>

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December 1, 1952

USNS "GENERAL JOHN POPE"

SR-777

INTENT OF SPECIFICATION

It is the intent of the Contracting Officer that the Contractor shall perform all of the work as described in these specifications and work shown on accompanying plans in order to accomplish the troop lift and safety at sea alterations on the ship, in accordance with the rules and regulations of the U. S. Coast Guard and the American Bureau of Shipping as last amended; so as to permit the Military Sea Transportation Service to obtain a valid "Certificate of Inspection" from the United States Coast Guard for civilian manned U. S. Navy Transports.

The Contractor shall prepare all plans pertaining to the rearrangement and installation of all electric light, power and intercommunication power, circuits, main and auxiliary switch boards, electric light and power distribution panels, piping, pressure vessels, safety at sea and troop lift alterations, ventilation and air conditioning, all machinery and all other detail plans required for accomplishment of the safety at sea and troop lift alterations, and as required by the Contracting Officer. The Contractor shall have all plans approved first by the U. S. Coast Guard, then by the Contracting Officer prior to proceeding with the work.

The Contractor shall have any of the above plans which the rules and regulations of the American Bureau of Shipping require submission of and approval of prior to proceeding with work, approved by the Bureau prior to submitting same to the U. S. Coast Guard and the Contracting Officer for approval. All plans which do not require U. S. Coast Guard or American Bureau of Shipping approval shall be approved by the Contracting Officer prior to proceeding with work. The preparation of plans shall be accomplished between the time the contract is awarded and the time the ship is made available to the Contractor for performance of the work.

The Contractor shall invite attention of the Contracting Officer to any desired departure from the contract specifications and plans, and shall receive approval of same before proceeding with the work. Approval of plans when these requirements are not complied with shall not constitute approval of any departure.

All workmanship and materials utilized shall be first class in all respects, in accordance with the best marine practice and to the rules and regulations of the U. S. Coast Guard and American Bureau of Shipping, and to the satisfaction of the Contracting Officer.

All materials, equipment, fixtures, provided and installed by the Contractor, in accomplishing work covered by these specifications shown on accompanying plans, must be new and approved by the U. S. Coast Guard and listed in their Equipment Lists for Merchant Ships as last amended.

INTENT OF SPECIFICATION: (Continued)

All fees, in connection with American Bureau of Shipping inspection, survey and required approval of plans shall be borne by the Contractor.

All material and equipment which must be provided or furnished in connection with work under these specifications, other than Government-owned material and equipment which the specifications state may be reused, shall be furnished by the Contractor unless it is specifically stated that such will be furnished by the Government.

All Government and Contractor furnished equipment and machinery shall be installed complete in all respects and ready for use or operation. All operating equipment and machinery shall be tested on completion of installation and proved in good working order.

All stipulated work in these specifications and accompanying plans shall be accomplished in accordance with the latest and amended applicable rules and regulations of the U. S. Coast Guard for ocean going U. S. Navy transports (civilian manned) and the rules and regulations of the American Bureau of Shipping applicable to this class of ship, regardless of all references to said rules and regulations hereinbefore stipulated in these specifications.

1. GENERAL SERVICES

The Contractor shall provide the utilities listed below, every hour the ship is in his yard or works, and until the ship leaves his yard or works for re-delivery to the Government:

Fresh water for drinking and culinary purposes.

Direct current electric power 700 amperes at 240 volts.

Direct current electric power 1200 amperes at 120 volts.

2-inch steam line at 100 PSIG to supply 3000 lbs. per hour.

Telephone installed aboard to yard switchboard for connections to all yard offices.

Telephone installed aboard to yard switchboard for connections to public telephone service.

One (1) Pay Station telephone for night service.

Sufficient water, fresh or salt for approximately twenty-five (25) fire hose nozzles of 2-1/2 inch diameter aboard the ship. A pressure 125 P.S.I.G. shall be maintained at all time day or night.

Sufficient water, fresh for domestic purposes and salt for sanitary purposes aboard the ship at a pressure of 60 P.S.I.G. shall be maintained at all times, day or night.

Contractor shall furnish necessary tow-boats and riggers who shall handle the necessary mooring lines while the ship is being moved into his yard and is being boored at his dock.

When the aforementioned telephones are made ready for service, the contractor shall notify the Contracting Officer.

NOTE:

Failure of the Contractor to supply any portion of the services specified above when required shall result in liquidated damages of seventy-five (\$75.00) dollars for each hour or less of such failure.

2. GAS FREEING OF TANKS

The Contractor shall steam out, clean and gas free all tanks and/or all areas as found necessary to accomplish work as called for in accompanying specifications. Areas and tanks shall be certified as free of dangerous gases prior to commencement of work therein. Tanks shall also be certified as having sufficient oxygen content for men working therein. Upon completion of all work, all manhole covers removed shall be reinstalled renewing all gaskets and defective bolting material. The Contractor shall furnish labor and equipment to transfer and/or remove oil as required.

3. INVENTORY OF PORTABLE PROPERTY

Immediately upon delivery of the ship to the Contractor's yard or works, the Contractor shall in the presence of a representative of the Contracting Officer, off-load and make a complete inventory of all portable furniture, tools, equipment, spare parts, (machinery and electrical), stores (except subsistence) and equipage aboard the ship and move same to adequate security storage ashore which shall be provided by the Contractor. The spare parts will be identified and inventoried by representatives of the Contracting Officer. All spare parts (machinery and electrical) on completion of inventory shall be preserved, tagged and adequately protected against corrosion and mechanical injury and properly stowed in metal boxes by the Contractor. Each box of spares shall be plainly marked with a list of its contents and sealed. Records of spare parts in accordance with Chapter 31 of Bureau of Ships Manual will be established by representatives of the ~~Bureau of Ships Manual~~ Contracting Officer. Upon completion of inventory and the stowage of spare parts in boxes the Contractor shall assume the responsibility for the proper storage of the spare parts and all other property and equipment removed from the ship and shall take the necessary precautions to insure the safety, security and condition during the entire time they are in his possession. On completion of the work the inventory shall be checked, and any missing, damaged or deteriorated items shall be replaced by the Contractor to the satisfaction of the Contracting Officer. All items removed shall be restowed or reinstalled aboard ship in locations as designated by the cognizant ship's department head prior to contract completion at time designated by MSTSP Inspector.

4. DRAWINGS

The following drawings accompany and form part of these specifications:

MSTS PLAN NO.:TITLE

T-AP110-S2901-1178969	Final Emerg. Alteration Capacity Plan
T-AP110-S0103-1178970, Alt 1	Final Emerg. Alt. Arrgt. of Super Dk., Nav.Br.Dk. & Tops
T-AP110-S0103-1178971	Final Emerg. Alt. Arrgt. of Upper & Focsle Decks
T-AP110-S0103-1178972	Final Emerg. Alt. Arrgt. of Main Deck
T-AP110-S0103-1178973	Final Emerg. Alt. Arrgt. of 2nd Deck
T-AP110-S0103-1178974	Final Emerg. Alt. Arrgt. of 3rd Deck
T-AP110-S0103-1178975	Final Emerg. Alt. Arrgt. of 1st Platf.
T-AP110-S0103-1178976	Final Emerg. Alt. Arrgt. of 2nd Platf.
T-AP110-S0103-1178977	Final Emerg. Alt. Arrgt. of Hold
T-AP110-S3803-1179071	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. Super Dk., Nav.Br. & Tops
T-AP110-S3803-1179072	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. Upper & Focsle Decks
T-AP110-S3803-1179083	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. Main Deck

4. DRAWINGS (CONTINUED)

T-AP110-S3803-1179074	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. 2nd Deck
T-AP110-S3803-1179075	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. 3rd Deck
T-AP110-S3803-1179076	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. 1st Platf.
T-AP110-S3803-1179077	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. 2nd Platf.
T-AP110-S3803-1179078	Diag. Arrgt. of Air Cond. & Vent. Sys. Alt. Hold
T-AP110-S3803-1179070-Alt. 1	Air Conditioning of Hospital Area
T-AP110-S3801-1178959	Details of Filters
T-AP110-S8221-1179026	Rearrangement of Lifeboats
T-AP110-S6502-1179036	Entertainment Sound System
T-AP110-S3801-1179018	Vent. Guidance Removal Plan of Sup.Dk., Nav.Br.Dk. & Tops
T-AP110-S3801-1179019	Vent. Guidance Removal Plan of Upper & Focsls Decks
T-AP110-S3801-1179020	Vent. Guidance Removal Plan of Main Deck
T-AP110-S3801-1179021	Vent. Guidance Removal Plan of 2nd Deck
T-AP110-S3801-1179022	Vent. Guidance Removal Plan of 3rd Deck
T-AP110-S3801-1179023	Vent. Guidance Removal Plan of 1st Platf.
T-AP110-S3801-1179024	Vent. Guidance Removal Plan of 2nd Platf.
T-AP110-S3801-1179025	Vent. Guidance Removal Plan of Hold
T-AP110-S9300-1178978	Fire Control Plan Inboard Profile
T-AP110-S9300-1178979	Fire Control Plan Arrgt. of Super Dk., Nav.Br.Dk & Tops
T-AP110-S9300-1178980	Fire Control Plan Arrgt. of Upper & Focsls Decks
T-AP110-S9300-1178981	Fire Control Plan Arrgt. of Main Deck
T-AP110-S9300-1178982	Fire Control Plan Arrgt. of 2nd Deck
T-AP110-S9300-1178983	Fire Control Plan Arrgt. of 3rd Deck
T-AP110-S9300-1178984	Fire Control Plan Arrgt. of 1st Platf.
T-AP110-S9300-1178985	Fire Control Plan Arrgt. of 2nd Platf.
T-AP110-S9300-1178986	Fire Control Plan Arrgt. of Hold
T-AP110-S6700-1179037	Arrangement of Radio Room
T-AP110-S6700-1179059	Radio Room Equipment Details
T-AP110-S3803-1171327-Alt. 1	Details of Air Cond. & Vent. Sys. Alt.
T-AP110-S5901-1179181-Alt. 2	Arrgt. & Dets. of Air Conditioning Refrigeration Machinery

The following drawings shall be used for guidance in procurement or fabrication of materials and equipment specified.

<u>PLAN NO.:</u>	<u>TITLE</u>
S3402-1178587 Alt. 5	Sit-Down, Stand-Up Mess Table
S3306-1083204 Alt. 3	Troop and Officer Type Berths
S3306-1083205 Alt. 1	Crew and Hospital Type Berths
S3306- 633238 Alt. A	Serving Table, 36", Aluminum
S3306- 921690 Alt. A	Bookrack, Type B, Steel
S3209- 860354 Alt. A	Bookcase, Type A, Steel
S3306- 921621 Alt. B	Locker, Clothes, Type B2, Steel
S3306- 921756	Peacoat Locker
S7904-1178263 Alt. 2	Small Arms Locker
S6302- 921679 Alt. A	Barber Shelf and Cabinet
S3801-1082930 Alt. 3	Det. of Quadrant & Fusible Link Damper
S3209- 921640 Alt. A	Cabinet, Filing, Type C & D, Steel
S3209- 921644 Alt. B	Desk, Flat-Top Steel, Single Pedestal
S3209- 921666 Alt. B	Desk, Typewriter, Single Pedestal, Steel, Drop At Side
S3306- 921650 Alt. A	Log Desk, Dropleaf, Steel
S3001- 860307 Alt. B	Ship Store
S3306- 441992	Toilet Case, Steel

(Continued)

4. DRAWINGS (CONTINUED)

S3209- 303821 Alt. A	Key Cabinet, Type C, Aluminum
S3201- 921699 Alt. A	Form Cabinet
S3209- 860211 Alt. G	Metal Safe Locker, Type 6
S3209- 860209 Alt. I	Metal Safe Locker, Type 3
S8200- 860050 Alt. E	Balsa Wood Life Float (25-person capacity)
S3209- 921686	Bookcase, Steel
S3306-1083175 Alt. 6	Straight Back Chair
PAC Dwg. B-811	Meat Thaw Rack
S3306-921645-47-52-54	Single & Double Built-in Berths
S3000- 860159 Alt. G	Storeroom Details
S3402-1178547	Messstray Rack
S3402 1178548	Bowl & Cup Rack
S6406-1082928 Alt. 2	Adjustable Floodlight Mounting
S3306-1083184	Secretary Bureau, Lowboy
S3306-1083193	Occasional Table
S3306-1084396	Lounge Chair
S3306-1084397	Three-Person Settee
S3801-1179081	Air Filter Fastener Clip

5. TROOP TOILET, SHOWER AND WASHROOM FIXTURE REPLACEMENT

In all troop toilet, shower and washroom areas throughout the ship, the below listed renewals and replacements shall be accomplished to those fixtures remaining after the removals necessitated by the rearrangements specified under the individual compartment items and indicated on the contract guidance plans have been accomplished (the fixtures unaffected by the conversion.)

Replace all 1/2" hot and cold salt water piping, valves, and mixing valves from the headers to the shower heads with new galvanized wrought iron pipe, malleable fittings and mixing valves similar and equal to Crane GM 4580.

Replace all urinals troughs with new stainless steel urinal troughs.

Replace all washbasins with new government furnished monel metal basins.

All new units and material noted above shall be installed by the contractor, complete with all necessary piping, fittings and structural supporting members.

NOTE:

It should be noted that, under the various items of these specifications the troop toilets throughout the ship will be served as follows:

All wash bowls shall be served with hot and cold fresh water. All existing showers will be served with hot and cold salt water. All new showers shall be served with hot and cold fresh water, with an additional cold salt water head in each shower stall. Two of the existing water heaters will heat salt water and two will heat fresh water.

ALTERATIONS TO ACCOMMODATIONS AND SERVICE SPACESGeneral

The vessel shall be altered and refitted as necessary to conform with the arrangements and details shown on Dwg. T-AP110-S0103-1178970 to T-AP110-S0103-1178977 inclusive.

Fire stations, circulating fans, radiators, fire extinguishers, lighting panels, life preserver racks, etc., in way of alterations or new installations shall be relocated as necessary.

All new joiner bulkheads and built-in wardrobes shall be constructed of 3/4" "Marinite", or equal fireproof material. Bulkheads forming washrooms, toilets, cleaning gear lockers, pantries and other non-watertight bulkheads specified to be of steel, shall be 1/4" steel plate construction properly stiffened.

All new interior joiner doors shall be hollow sheet steel marine doors with ventilation louvers in bottom section, except where otherwise required, and complete with heavy marine brass hardware, locks, three (3) keys, holdback hooks and bumpers. Sills for new doors to "wet" areas shall be 6" high and 4" high for other areas. Fire doors provided with door closers shall not be fitted with holdback hooks.

Minimum clear deckheight in all areas shall be 7' -0" below ceilings, vent ducts, piping, cable, etc., except in way of local obstructions.

Where not existing, barracks bag stowage racks shall be provided in troop berthing areas by welding 3/4" pipe to available space on bulkheads or frames along the ship's side, at a height of 32", 64" and 96" above the deck. A 24" x 36" bulletin board shall be provided in each troop berthing area.

One bracket fan, 12" non-oscillating, type TD 12 in accordance with Military Spec. MIL-F68A, shall be provided and installed for each 300 sq. ft. or fraction thereof, of deck area in all hospital, office, working and living spaces, except in troop berthing and stores areas.

New troop showers shall be provided with one (1) shower head connected to cold salt water line and a separate shower head connected to hot and cold fresh water lines. Fresh water supply lines to troop washrooms shall be fitted with independent shut-off valves that may be locked in a closed position.

All new waterclosets, urinals and urinal troughs shall be connected to salt water flushing and soil lines. New flushing rim service sinks shall be connected to salt water flushing and drain lines and in addition shall be provided with mixing faucet and swinging spout, connected to hot and cold fresh water lines. All other new sinks and washbasins shall be connected to hot and cold fresh water and drain lines. Scullery and pantry sinks shall be provided with thermometer wells, suitable permanently attached thermometers calibrated in degrees Fahrenheit, and externally operated lever type drain valves. Scullery and pantry sinks shall also be provided with injection steam lines and fittings for water heating. Where required, all new and relocated hospital equipment and dishwashing machines shall be provided with hot and cold fresh water, steam and drain connections in accordance with recommended practice for installation of equipment. New and relocated electric drinking fountains shall be connected to cold fresh water supply and drain lines.

(Continued)

ALTERATIONS TO ACCOMMODATIONS AND SERVICE SPACES (CONTINUED)

New drain and soil lines serving spaces on and above "B" deck shall discharge by gravity as close to the load water line as possible, clear of accommodation ladders and load line markings. Drinking fountains and deck scuppers in spaces and compartments located below "B" deck shall be arranged to discharge or drain into existing bilge or drain wells. Toilet fixtures in prisoner guard room shall be arranged to drain or discharge overboard, as specified elsewhere. For new discharges, where the spaces or equipment being drained are below the bulkhead deck, either two (2) non-return valves or one (1) non-return valve with remote means of closing from above the bulkhead deck shall be fitted at the overboard discharge. Drains from new plumbing fixtures shall be provided with traps, vents and clean out plugs.

New steam and hot water lines, valves and fittings shall be insulated with standard thickness 85% magnesia or approved sectional covering, protected with 40 pound water repellent and flameproof paper or asbestos paper and 8 oz. canvas. New cold fresh water, sanitary, fire main, soil and drain lines and fittings shall be insulated with 1" thick mineral wool, protected with 40 pound water repellent and flameproof paper or asbestos paper and 8 oz. canvas. Where passing through machinery or galley spaces, asbestos cloth shall be substituted for canvas. Insulation shall be covered with sheet metal lagging or protected with heavy guards, where required to prevent damage.

All new plumbing fixtures shall have control stops in supply lines adjacent to fixtures and shall be provided with rubber washers fitted between all ceramic fixtures and metal supports. New showers shall have 1/8" steel plate separation partitions between adjacent showers and new and existing showers shall be provided with a separate deck drain and removable strainer plate for each shower stall. Curtain rods shall be provided for each new transient officer and permanent staff shower. All shower partitions shall be welded to structural members and pipe stanchions with continuous electrical welds.

Top of washbasins at front shall be 31" above the finished deck. Washbasins in all troop toilets, showers, and washrooms will be U. S. Government furnished monel metal or stainless steel units with supporting brackets. Contractor shall furnish and install hot and cold fresh water faucets similar and equal to Crane Number GM 31-970, pop-up waste units similar and equal to Crane Co. Number GM 32-380, modified as necessary to suit basins, suitable traps, and all other necessary piping and fittings. On replacements, modify all existing piping as necessary. Shower control assembly shall be composed of two (2) valves of the compression type. Built-in wardrobes shall be provided with a shelf, two (2) coat hooks, one (1) hanger rod and a ventilation grille in the upper part of the door.

The Contractor shall relocate existing drinking fountains and shall furnish and install new electric drinking fountains so as to provide drinking fountains in location and number as indicated on contract guidance plans. All relocated drinking fountains shall be placed in good operating condition.

Provide a mop and broom rack in each troop compartment in locations as directed by the Naval Inspector. Racks shall be of metal construction and of size to handle six (6) mops or brooms.

(Continued)

ALTERATION TO ACCOMMODATIONS AND SERVICE SPACES (CONT'D)

In all troops washrooms and toilet spaces, throughout the ship the existing mirrors, mirror lights and shelves over the wash basins shall be removed, relocated and/or new items installed so as to provide a 12" x 16" shatterproof mirror and a 4" wide x 1" long polished stainless steel shelf over each new and each existing washbasin and a mirror light shall be installed to service each two mirrors.

6. TOP OF NAVIGATING BRIDGE DECKHOUSE

Remove the existing 40 lb ammunition clips from interior of wing bulwarks, port and starboard, together with steps, and gun base ring.

7. DECK TOILET, FRs. 86-87 - NAVIGATING BRIDGE DECK

Remove the existing shelving and provide a urinal in location as shown, and provide a grab rod on adjacent bulkhead.

8. CHIEF RADIO OPERATORS' QUARTERS, FRs. 91-95, PORT - NAV. BRIDGE DECK.

The existing radar plotting room shall be rearranged and fitted out as the Chief Radio Operator's stateroom, as shown on the contract guidance plan. Remove all existing cabinets, shelving, etc., from the area. Erect new steel and joiner doors forming washroom and passageway extension, as shown. Cut archway in athwartship bulkhead at frame 91. Remove existing door leading to Chart Room and blank opening in way of door. Provide new 16" dia. airport located as shown on plan. Provide one (1) watercloset, one (1) washbasin, one (1) shower and deck drain in the washroom. Provide toilet case, mirror light, soap dish and towel rack in way of washbasin. Provide grab rod, toilet paper holder in way of watercloset, and towel rod or hook, grab rod and soap dish, and curtain rod in way of shower. Shower shall have separate drain. In the stateroom, provide one (1) built-in berth 36" x 78", complete with mattresses and berth light, one (1) built-in wardrobe, one (1) secretary bureau, one (1) bookrack (Type B), and one (1) life preserver rack. Shelving, bins lockers, etc., in deck locker, starboard side, shall be relocated as required.

9. MASTER-AT-ARMS & BOS'N & CARPENTERS' QUARTERS, FRs. 113-118, PORT AND STARBOARD NAV. BRIDGE DECK

The Bos'n and Carpenters and Master-At-Arms staterooms shall be rearranged as shown on the contract guidance plan. Remove the existing berths, lockers and bookcases, etc., and furnish and install one (1) set of 2-high built-in berths 36" x 78", complete with berth lights and mattresses, rack for two (2) life preservers, and two (2) built-in wardrobes in the Bos'n's stateroom and one (1) set of 2-high and one (1) set of 1-high built-in berths, 36" x 78", complete with berth lights and mattresses, rack for three (3) life preservers, and three (3) built-in wardrobes in the Master-at-Arms stateroom. In each stateroom install one (1) hinge wall desk.

10. FIRE CONTROL ROOM - NAVIGATING BRIDGE DECK -

Remove the existing door leading to the Wheelhouse, complete with hardware, etc., and remove existing berth from area. Install curtain and curtain rod as shown.

11. REMOVAL OF OBSOLETE PLATFORMS AND STRUCTURE - NAVIGATING BRIDGE DECK -

Remove existing searchlight platforms attached to forward stack, port and starboard, at frs. 99-101, together with doors leading to platform, foundations, obsolete ladders, railings, etc. Plate opening in stack in way of removed doors.

11. REMOVAL OF OBSOLETE PLATFORMS AND STRUCTURE-NAVIGATING BRIDGE DECK
Remove existing 20 MM gun platforms, bulwarks, foundation and supporting structure, etc., between frs. 118 and 127, together with gun rings atop existing quarters, Remove forward overhang of platform between frs. 111 and 113. Provide two-course railing tying into existing railing at forward and aft ends of housestop running athwartship, in way of removed bulwarks. Remove existing gun platforms, foundations, bulwark, deck gear, etc., between frs. 145-149, port and starboard.
12. EMERGENCY GENERATOR ROOM, FRs. 97-102- NAVIGATING BRIDGE DECK
The emergency generator located in the forward stack shall be completely enclosed. The Contractor shall construct in new fumetight steel deck forming the deckhead of this area. The deck shall be installed approximately 12'-4" above the level of the Navigating Bridge Deck. A new steel fumetight bulkhead shall be installed athwartship at frame 102, forming the after bulkhead of this area. Provide shall be made for lifting generator diesel cylinders and generator.
- Furnish and install two (2) fume tight steel plate access doors in locations as directed by MSTs Inspector. Hand railings adjacent to the existing vertical ladder leading down to the forward machinery space shall be modified as necessary for proper access.
- Furnish and install two (2) 2'-0" x 4'-0" weatherproof louvered openings, port and starboard, in way of the Emergency Generator in location as directed. The existing opening at the forward end of the Generator Room shall be filled with weather-tight louvered section in lieu of the existing doors.
13. REMOVAL OF OBSOLETE STRUCTURE - SUPER. DECK- FR. 85-89
Remove the existing gun trunks from the bridge wings, port and starboard, between frs. 85-89. Provide and install new bulwark, port and starboard, in way of the removed trunk and outboard as indicated on contract guidance plan.
14. JR. ENGR. & FR. OFFICER STATEROOMS, FRs. 119-127 - SUPER. DECK
Provide four (4) upper built-in berths, one (1) over each athwartship berth, complete with mattresses.
15. CLEANING GEAR AND LINEN LOCKER, FRs. 127-129 PORT - SUPER DECK
The existing cleaning gear locker shall be rearranged and the area fitted out as cleaning gear and linen locker, as shown on contract guidance plan. Erect steel bulkheading forming the locker divisions. Install a joiner door leading into the cleaning gear locker. In the linen locker install metal shelving, extending from deck to deckhead, forward and outboard, beneath the overhead fan, spaced 18" apart.
16. CREW TOILET, FRs. 143-146, SUPER DECK, PORT
Remove existing urinal and provide a washbasin in similar glass location. In way of washbasin provide soap dish, towel rack, 12" x 16" shatterproof mirror with mirror light over and 4" x 15" stainless steel shelf.
17. REARRANGEMENT OF WASHROOM, FRs. 96-98, STARBOARD-SUPER. DECK.
The washroom, frs. 95-97, starboard, shall be relocated and rearranged between frs. 96-98, starboard, as shown on plan. Remove obsolete bulkheads and erect new steel bulkheads to form the new washroom enclosure. Relocate watercloset and washbasin, and accessories, such as toilet case, mirror light, grab rod, etc., to new locations. Relocate desk in adjacent room as shown on plan.

(Continued)

18. HOSPITAL AREA, FRs. 105-154, UPPER DECK

The hospital area shall be generally rearranged and extended as shown on the contract guidance plans.

General

Remove all obsolete divisional bulkheading, sheathing, ceiling, doors, furniture, equipment, etc., from the areas between frs. 105-154 port, centerline, and starboard. Existing washroom equipment, bulkhead sheathing, deckhead ceiling and bulkheads bounding washrooms and corridors may be retained if modified as required to conform with the contract guidance plan. Existing washroom equipment and furniture and hospital equipment of metal or incombustible construction such as desks, file cabinets, examination tables, sterilizers, refrigerator, drug cabinets, etc., may be reused. Fabricated equipment such as dressers, shelving, laboratory cabinets may be reused if modified to suit arrangements shown on contract guidance plans.

Doors to wards, working spaces, staterooms, etc., shall be 20" wide except where other width is indicated on contract guidance plans. Doors to washrooms, cleaning gear lockers, utility rooms and other small lockers shall be 24" wide.

19. PERTSIDE, FRs. 106-125 PORT-HOSPITAL AREA-UPPER DECK

Erect new bulkheads and provide joined doors to form Doctor's Office, isolation wards and washrooms, crew examining and treatment room, medical records office, lockers, and utility room. Door to medical records office shall be "Dutch" type.

20. ISOLATION WARDS, FR. 116-124 PORT

In each of the isolation wards provide one (1) set of 2-high hospital berths, complete with berth lights, mattresses, and install and connect up one (1) washbasin in locations as shown. In the isolation ward washrooms install and connect up a shower and water closet. In way of the washbasins provide a shatterproof 12" x 16" glass mirror, 4" x 15" stainless steel shelf, mirror light and soap dish holder; in way of waterclosets provide a grab rod and toilet paper holder; in way of the shower provide curtain rod, towel rod or hook, grab rod and soap dish.

21. DOCTOR'S OFFICE, FR. 120-125, PORT

In the Doctor's Office provide and install one (1) double pedestal desk, and one (1) file cabinet (type C), one (1) bookcase 4' wide, one (1) safe (type 6), and three (3) straight back chairs.

22. CREW EXAMINING AND TREATMENT ROOM, FR. 112-117, PORT

In the crew examining and treatment room provide and install one (1) specialist's chair, one (1) instrument and dressing cabinet, two (2) instrument stands, one (1) stool, one (1) surgeon's wash-up sink and one (1) instrument sterilizer. In addition, provide one (1) examining table and a 4' x 4' stainless steel shelf over sink.

23. MEDICAL RECORDS OFFICE, FR. 107-112, PORT

In the medical records office provide two (2) single pedestal typewriter desks (one right-hand and one left-hand pedestal), three (3) filing cabinets (type D), one (1) filing cabinet (type C), one (1) bookcase 4'-0" wide, two (2) straight back chairs, and two (2) coat and hat hooks.

24. UTILITY ROOM, FR. 116-120, PORT

In the utility room provide and install one (1) bed pan washer, one (1) flushing rim service sink, one (1) utensil sterilizer, one (1) soap dish and towel rack and two (2) bed pan racks as shown. The clean linen locker shall be fitted with roller shelves extending from deck to deckhead.

25. CENTER LINE AREA, FRs. 106-125
Erect new bulkheads and provide joiner doors to form Dental Office, Troop examination and Treatment Room, Washroom Area, Pharmacy and Laboratory and Medical Stores Area, as shown on contract guidance plans.
26. DENTAL OFFICE, FR. 121-125 CENTERLINE
In the Dental Office install and connect up one (1) government furnished dental chair, and one (1) government furnished dental X-Ray unit, and provide and install one (1) metal work table, one (1) washbasin, one (1) dental cabinet, one (1) instrument sterilizer and one (1) straight back chair. Provide soap dish and towel rack in way of washbasin.
27. TROOP EXAMINATION AND TREATMENT ROOM, FR. 119-121 CENTERLINE
In the troop examination and treatment room provide and install one (1) specialists' chair, two (2) instrument stands, one (1) instrument sterilizer, one (1) surgeon's wash-up sink, one (1) examining table, one (1) metal stool, one (1) single, left-hand pedestal typewriter desk, one (1) instrument and dressing cabinet, and one (1) file cabinet (type C.) Provide a 4" x 24" stainless steel shelf over sink.
28. PHARMACY AND LABORATORY, FR. 106-114 CENTERLINE
In the Pharmacy and Laboratory provide and install one (1) single, left-hand pedestal typewriter desk, one (1) 8 cu. ft. refrigerator, one (1) drug cabinet, one (1) metal work table, one (1) straight back chair, one (1) laboratory dresser and cabinet with integral sink. The water still and other laboratory equipment shall be re-located from the former bacteriological laboratory and shall be installed and properly connected up. The door leading to the Pharmacy and laboratory shall be a "Dutch" type joiner door.
29. MEDICAL STOREROOM, FRs. 106-109
In the medical storeroom, frs. 106-109, provide metal shelving in locations as shown. The shelving shall extend from deck to 7'-0" above deck, spaced 12" apart vertically. The shelves shall have flanged fronts and shall be fitted with removable battens. Provide one (1) type 6 safe locker, as shown.
- In the public washroom frs. 119-121, provide one (1) deck drain, one (1) water-closet and one (1) washbasin. Provide toilet paper holder, grab rod in way of water closet and 12" x 16" shatterproof glass mirror, towel rack, soap dish, mirror light and 4" x 15" stainless steel shelf in way of washbasin.
30. STARBOARD AREA, FRs. 105-127
Erect new bulkheads and provide joiner and specified doors to form Mental cells, N.P. Wards, washrooms, corridors and lockers. Bulkheads and shower stalls shall be constructed of 1/4" steel plate stiffened with half round pipe stiffeners, spaced on 30" centers. Bulkheads shall be free from all projections, gaps and sharp edges. Doors to cells and N.P. Wards shall be of extra heavy joiner construction without knob or latch on interior, fitted with a 4" x 6" wired heavy glass viewing port at eye height. Viewing ports to cells shall be fitted with a hinged cover. The door hardware shall be extra heavy marine type and the locking device shall have three (3) points of locking simultaneously operated. 4" x 6" wired heavy glass viewing ports fitted with hinged covers shall also be provided for N.P. ward washrooms. Lighting for these areas shall be controlled from corridors. Ventilation openings shall be heavily screened, using 1/8" maximum open screening. Deckhead and exposed bulkhead stiffeners in N.P. wards, cells and washrooms shall be sheathed and finished flush, covering all vent ductwork and wiring. Sheathing shall be 3/16" steel plate in cells and washrooms and 3/8" marine sheathing or equivalent elsewhere. Minimum clear ceiling height shall be 7'-0". Sheathing and ceiling shall be backed up with heavy stiffeners, with all fittings made flush and tamperproof, or provided with

30. STARBOARD AREA, FRs. 105-127, (Continued)

guards. Remove existing airports in way of N.P. Wards and cells, and blank openings.

31. N.P. WARD WASHROOMS, FRs. 111-113, STARBOARD, & CELL WASHROOM, FRs. 111-114, STARBOARD
In the N.P. Ward washrooms, frs. 111-113, starboard, and in the cell washroom, frs. 111-114, starboard, inboard, provide one (1) watercloset, one (1) washbasin, and one (1) shower in locations as shown on the contract guidance plan. A deck drain in addition to shower drain shall be provided in each washroom.

A 12" x 16" polished stainless steel mirror, 4" wide stainless steel shelf and receptacle for electric razor shall be provided over each washbasin. A toilet paper holder and grab rod shall be provided at each watercloset. A grab rod shall be provided in each shower. Receptacle switches and shower valves for N.P. ward and cell washrooms shall be remotely located in locked boxes to permit control by attendants. The doors to the locker and emergency escape in cell area shall have no hardware protruding, except key latch control.

32. CLEANING GEAR LOCKER, FRs. 116-117 STARBOARD
Furnish, install and connect up a service sink in new cleaning gear locker, frs. 116-117 starboard.

33. N.P. WARD, FRAMES 113-123, STARBOARD
In the N.P. Ward, frames 113-123, starboard, provide five (5) sets of 2-high hospital type berths, complete with mattresses. Berth bottoms shall be of heavy flattened expanded metal welded in place to berth frames. Berth frames shall be welded to stanchions.

34. LOCKERS, FR. 102-110
Erect bulkheads forming lockers inboard and outboard of stairway frames 102-106. The newly formed locker at frs. 109-110 starboard shall be fitted with a weather-tight door and the obsolete locker door shall be removed from locker at frame 105 and opening blanked over. Remove bulkheading and provide vestibule door at frames 101-102, stbd. In the linen locker, fr. 123, provide metal shelving, spaced 12" apart, from deck to 7'-0" above deck. Shelves shall have raised front and portable battens between shelves.

35. AFTER AREA, FRs. 127-154 PORT & STARBOARD, HOSPITAL AREA -UPPER DECK
Erect bulkheads and provide joiner doors forming wards, ward washrooms, X-Ray and X-Ray dark room, operating and sterilizing rooms, utility, locker and storerooms as indicated on the contract guidance plan.

36. GENERAL WARDS, FRs. 144-154, PORT AND STARBOARD
Remove the existing berth from the General Wards, frs. 144-154, port and starboard. In each of the Wards provide twelve (12) sets of 2-high hospital type berths and one (1) single Gatch berth. Additional lower berths shall be of the adjustable type (G.B.) where so indicated on the plan. Bedside lockers shall be provided for each berth.

37. SURGICAL WARD, FRs. 136-140
In the Surgical Ward, frs. 136-140, provide three (3) sets of 2-high hospital berths with lower berths of the adjustable (G.B.) type. In the surgical ward washroom provide one (1) watercloset, one (1) washbasin, one (1) shower and one (1) bed pan washer in locations shown.

38. GENERAL WARD & SURGICAL WARD WASHROOM, FR. 139-144, HOSP. AREA
In each of the general ward washrooms and in the surgical ward washroom provide a 12" x 16" shatterproof glass mirror, mirror light and a 4" x 15" stainless steel shelf, soap dish in way of each washbasin. Provide a grab rod and toilet paper holder in way of each watercloset. Provide a soap dish, curtain rod, towel rod or hook and grab rod in way of each shower. A deck drain in addition to shower drain shall be provided in each washroom.
39. CLEANING GEAR LOCKER, FRs. 140-142 STARBOARD
In the cleaning gear locker, frs. 140-142 starboard, provide a service sink, and mop and broom rack.
40. ISOLATION WARDS PORTSIDE, FRs. 132-141
In the isolation wards portside, frs. 132-141, provide sets of 2-high hospital type berths, complete with berth lights and mattresses, in location and number as shown. In both the forward ward washroom and the after ward washroom and ward provide washbasins, showers and waterclosets, as shown on plan. Washroom accessories and drains, similar to those previously specified for the General and Surgical Wards, shall be provided adjacent to the washbasins, waterclosets and showers.
41. UTILITY ROOM PORTSIDE, FRs. 138-141
In the Utility Room Portside, frs. 138-141, provide one (1) bed pan washer, one (1) utensil sterilizer, one (1) flushing rim service sink, two (2) bed pan racks, one (1) soap dish and one (1) towel rack. In the clean linen lockers port, frs. 135-137 and starboard of centerline, frs. 143-144, provide metal shelving 12" deep extending from deck to 7'-0" above deck, spaced 12" apart. Shelving shall have flanged fronts and shall be fitted with removable battens.
42. OPERATING ROOM, FRs. 134-141 CENTERLINE
In the operating room, frs. 134-141 centerline, provide one (1) operating table, three (3) instrument stands, one (1) instrument cabinet, one (1) stool, one (1) surgeon's wash-up sink (knee-action type), one (1) solution stand.
43. STERILIZER AND SCRUB ROOM, FR. 141-143 CENTERLINE
In the sterilizer and scrub room provide one (1) new dressing sterilizer, steam-operated, 16" x 24" pressure type (the existing autoclave may not be reused); one (1) utensil sterilizer, one (1) service sink, one (1) dressing cabinet, two (2) water sterilizers (pressure type), one (1) metal worktable with leerail.
44. X-RAY ROOM AND DARK ROOM FRs. 132-136, STARBOARD SIDE
In the X-Ray Room on the starboard side, frs. 132-136, install one (1) government furnished portable X-Ray machine, and provide one (1) examining table and one (1) low stool. The Contractor shall install and connect up all associated equipment and controls for the X-Ray machine. The entrance doors to the X-Ray Room shall be fitted with viewing ports at eye level.

In the X-Ray Dark Room provide one (1) X-Ray developing unit, one (1) file cabinet (type C), one (1) work table, as shown on contract guidance plans, with integral sink 15" x 15" x 12" deep. Work table shall be fitted with shelves and storage cabinets under.

45. MEDICAL STOR ROOMS, FRs. 127-130 $\frac{1}{2}$ STARBOARD
In the Medical Storerooms, at frs. 127-130 $\frac{1}{2}$ starboard, and frs. 127-130 starboard of centerline, provide shelving and metal battens in locations as shown. The shelving shall be flanged at the front and extend from the deck to 7' - 0" above deck. The shelves shall be 24" deep and spaced 12" apart, and fitted with removable battens.
46. NURSES' STATION, STARBOARD SIDE, FRs. 124-126
At the nurses' station, starboard side, frs. 124-126, provide one (1) single left-hand pedestal typewriter desk and one (1) file cabinet (type C) and one (1) straight back chair.
47. SHIP'S OFFICERS' QUARTERS, FRs. 93-101, HOSPITAL AREA, UPPER DECK
In the stateroom, frs. 97-101 starboard, provide an upper built-in berth above the existing berth, complete with mattress and berth light. Install a 6 ft. transom settee of metal construction with drawers under, inboard, as shown.
48. AIRPORTS, UPPER DECK FR. 81-154
The airports in way of the entire Boat Deck area between frames 81 and 154, port and starboard shall be installed, relocated and/or removed as required to conform with the contract guidance plans. Obsolete openings resulting from removed and/or relocated airports shall be blanked with a flush type patch and all welds ground smooth.
49. SHIPS OFFICER LOUNGE- FRAMES 93-101- UPPER DECK
1. Remove the following listed items of wood construction and provide and install replacements of steel construction as approved by the Contracting Officer:
- Two (2) wooden tables
 - Two (2) wooden settees
 - One (1) wooden serving table
 - One (1) wooden dish-rack
2. Provide and install two (2) approved type metal joiner doors to replace those missing from port and starboard longitudinal bulkheads.
50. BOAT DECK EXTENSION-UPPER DECK FR. 160 $\frac{1}{2}$
The boat deck shall be extended aft to frame 160 $\frac{1}{2}$ port and starboard, as shown on the contract guidance plans. The scantlings for the deck extension shall be similar to the existing Boat Deck scantlings and additional column supports, etc., shall conform to the requirements of the American Bureau of Shipping.
- The access ladders shall be rearranged as shown. New four-course pipe railing shall extend around the after side of the deck as indicated on the contract guidance plan.
51. WINCH CONTROLS, UPPER DECK
The existing winch controls serving Hatch Number 2 shall be relocated forward and inboard adjacent to each other as shown on the contract guidance plans. The existing winch controls serving number 6 hatch shall be relocated inboard adjacent to each other. Perform all necessary and indicated electric cable, electric equipment, pipe rail, and structural removals, relocations and installations pertinent to the above relocations.
52. REMOVAL OF OBSOLETE STRUCTURE, FRs. 192-195, PORT AND STARBOARD, UPPER DECK
Remove existing 20 MM gun pedestals from docking bridge wings port and starboard.

53. ACCESS TO TOP OF AFTER HOUSE, FRs. 201-215, UPPER DECK

The existing ladder at frame 201 starboard leading down to the Promenade Deck shall be removed together with landing. Provide 2-course pipe rail extending from frame 200 $\frac{1}{2}$ to 205, port and starboard, and athwartship at frame 200 $\frac{1}{2}$, as indicated on contract guidance plan. Install an 18" vertical ladder leading down to the Promenade Deck from the housetop port and starboard at frs. 210-211.

54. SHIP'S BRIG, FRs. 7-14, STARBOARD, MAIN DECK

The existing Paint Storeroom shall be rearranged and fitted out as a ship's brig, as shown on the contract guidance plan. Remove all existing shelving, bench paint, etc., cleaning out the area. Provide two (2) sets of 2-high troop berths, one (1) watercloset and one (1) washbasin. Adjacent to the watercloset provide a grab rod and toilet paper holder. In way of washbasin provide soap dish, towel rack and 12" x 16" shatterproof mirror. Remove CO/2 piping, complete with fittings, and modify CO/2 system in stores area to bypass the new ship's brig. Remove existing access door and install new steel door fitted with a barred viewing port with hinged shutter and locking bar extending across the door.

55. STORES HATCH, FRs. 30-32, PORT, MAIN DECK

Remove the existing portside vent located at frame 30 $\frac{1}{2}$. Furnish and install a 4'-0" x 4'-6" stores hatch with hinged watertight cover. The hatch opening shall be reinforced and corners rounded in accordance with American Bureau of Shipping requirements. The hatch cover shall be hinged forward and fitted with the necessary dogs and gaskets to insure water tightness. A radial bar davit of five hundred pound (500#) capacity shall be provided and installed in location as shown. The davit shall have a bronze sleeve bearing with an alemite grease fitting, and shall be fitted with necessary cleats and head pads for blocks and lines.

56. INSTALLATION OF AIRPORTS, FRs. 58 $\frac{1}{2}$ - 89, MAIN DECK

Furnish and install 16" diameter airports in staterooms and office spaces as indicated on the contract guidance plan. Portlights shall be of cast brass, of adequate strength and thoroughly watertight when closed. Glass shall meet U.S. Coast Guard standards set forth in Subchapter "M". Portlights in end bulkhead shall be provided with hinged deadlight covers of cast steel. Portlights and deadlights shall be complete with all lugs, dogs, securing chains, clips and gaskets.

Port boxes with non-ferrous or stainless steel drip pans shall be installed under all new airports where lining is fitted. Eyebrows or watersheds shall be fitted over all airports.

Where light from airports of fixed lights would interfere with navigation, means for blacking out same shall be provided.

Portlights shall be located approximately 5'-3" from the deck to the center of the port. The Contractor shall also relocate berths, lockers, vent ducts, pipe line, etc., where necessary to permit installation of portlights.

All airports shall be provided with spigots projecting 1/4" beyond the outer surface of shell.

57. BARBER SHOP, PURSER'S OFFICE, AND LOCKERS FRs. 76-87, CENTERLINE, MAIN DECK
The existing Purser's Office and stairwell enclosure shall be rearranged and the areas fitted out as specified below and as shown on the contract guidance plan.

Remove obsolete bulkheading, desks, shelving, doors, counters, etc., and blank obsolete door and counter openings. Relocate existing vent duct risers.

Erect bulkheads and provide joiner doors to the respective area divisions.

In the Purser's Office, frs. 80-87, rearrange existing equipment and install new equipment so as to provide four (4) single pedestal typewriter desks (3 left-hand and one right-hand), one (1) double pedestal typewriter desk, five (5) straight back chairs, three (3) filing cabinets (type C), two (2) filing cabinets (type D), two (2) safes, five (5) desk lamps, and two (2) bookracks (type B). In addition, provide a counter opening as shown, approximately 6 ft. long with exterior service counter and hinged closure. Install a 10 ft. long interior counter with cabinets, and shelving under.

In the Barber Shop, Fr. 76-87 ~~Q~~, Main Deck, provide in the locations shown, two (2) barber chairs, Military Spec. JAN-C-486, type 8, barber shelf and cabinets, BuShips General Type Plan S3602-921679, three (3) straight back chairs, five (5) coat and hat hooks on the outboard bulkhead, and one (1) barber sink, complete with toilet case, mirror light, soap dish and towel rack.

Erect bulkheading and provide joiner doors in stairwell enclosure forming miscellaneous lockers, as shown on contract guidance plan.

In the Purser's Locker, Fr. 85-87, Port, Main Deck, provide shelving extending from the deck to 7'-0" above the deck. The shelving shall be arranged as shown on the contract guidance plan, and shall be 30" deep and spaced 18" apart, fitted with removable battens.

In the Linen Locker and Cleaning Gear Locker Fr. 76-78, Stbd, Main Deck provide shelving extending from the deck to 7'-0" above the deck. The linen locker shelving shall be 15" deep and spaced 18" apart, and fitted with removable battens. All shelving shall be flanged up at the front. In the Cleaning Gear Locker provide a service sink and mop and broom rack.

58. VESSEL SALES EXCHANGE AND STOREROOMS, FRs. 99-102, MAIN DECK

The after area of the Officers' Lounge shall be rearranged and fitted out as a vessel's Sales Exchange and storeroom area as shown. Remove the existing sofa, and after three (3) inboard tables and chairs in way of Sales Exchange. Relocate the vending machine outboard as specified elsewhere.

Erect bulkheading and provide doors forming the area divisions. The Sales Exchange shall be provided with a serving counter, hinged shutter, shelving and bins generally in accordance with BuShips plan #S3001-860307. The starboard storeroom shall be equipped with metal shelving extending from deck to 7'-0" above deck in location as shown. Shelving shall be 24" deep and spaced 18" apart, fitted with removable battens. The port storeroom shall be provided with portable metal battens and wood gratings. The entrance door to the Sales Exchange shall be fitted with three (3) heavy metal locking bars, staples, and padlocks.

59. SALOON MESS, FRs. 106-127, MAIN DECK

The Saloon Mess shall be rearranged as shown on the contract guidance plan. Remove existing sales exchange between frs. 125-127 in its entirety, including bulkheading, shelving, lockers, etc. Remove the forward starboard athwartship mess table at frame 108, and the centerline two-person table at frame 123. Provide and install three (3) 6ft. tables, two (2) 8 ft. tables, and three (3) serving tables. Mess tables shall be of metal construction with linoleum tops, similar in general design to the existing and fitted with a leerrail. The serving tables shall be in accordance with the standard plan specified under the "Drawing" item of these specifications. Erect bulkheading forming a pantry lobby on the starboard side of the saloon mess between frs. 125-127, as shown on the contract guidance plan. Provide a joiner door fitted with a fixed portlight.

60. SALOON MESS SCULLERY, FRs. 130-137, MAIN DECK

The existing scullery area shall be rearranged and fitted out as shown on contract guidance plan. ~~Remove the existing dishwashing machine, scullery dresser, etc.,~~ Remove existing portlight in way of the dishwashing machine and blank opening in way of portlight. Remove the existing dishwashing machine, scullery dressers, etc., cleaning out the area between frs. 130-137 port. Erect steel bulkheading from deck to deckhead forming the scullery with steel plate entrance door. In the scullery provide one (1) right-hand dishwashing machine, Hobart XM3 type or equal, dual drive with steam injector and thermostatic wash and rinse tank temperature controls; also provide sections of continuous 30" wide dresser with 9" x 12" rectangular rubber covered stripping hole, stowage racks under and integral sinks 20" x 20" x 15" deep, and two (2) sections of shelving over dressers. Tops of dressers shall be constructed of #12 USSG polished stainless steel or nickel copper alloy with integral rolled edges 3/4" high and turned down about 1 1/2" below working surface. A 10" high integral splash back, flashed around stiffeners shall be provided in way of dressers. Under shelves and base enclosures shall be constructed of sheet steel (#12 USSG polished stainless for shelves and #16 USSG galvanized for enclosures.) Overshelves shall be constructed of #16 USSG polished stainless steel or nickel copper alloy with front edges rolled up 3/4", turned down for 1 1/2" and hemmed back, supported on brackets spaced not over 36" on centers. Racks under dressers shall be arranged for stowage of standard 20" x 20" baskets. Two (2) deck drains shall be provided in the scullery area. A hinged counter opening shall be provided in way of stripping hole about 3'-0" long.

61. CLEANING GEAR LOCKER, FRs. 130-132 PORT - MAIN DECK

Erect bulkheading forming a cleaning gear locker in location as shown and provide a steel plate entrance door. Install a service sink and mop and broom rack.

62. ICE CUBE MAKING MACHINE, FRs. 140-142 - MAIN DECK

Extend the outboard section of the dresser in the service and cold pantry to the after bulkhead and provide an ice cube making machine in the location shown on the contract guidance plan. The ice cube making machine shall be York Model 450 A, or equal, 115 volt, single phase, 60 cycle (without ice crusher). The machine shall be installed in accordance with manufacturer's recommendations.

The inlet condenser circulating water piping shall be tied into the ship's fresh water system and the discharge piping shall be tied into the suction side of specified fresh water pump.

63. TRANSIENT OFFICERS' QUARTERS, WASHROOM & LOUNGE, FRs. 142-158, MAIN DECK

The existing administrative and other offices and shops shall be rearranged and/or refitted as shown on contract guidance plan and as specified.

Remove obsolete bulkheading, furniture, equipment, shop gear, obsolete wiring, etc., cleaning out these areas completely. Remove obsolete doors and blank openings in way of same.

Erect bulkheads forming stateroom, locker and washroom sub-division, and provide necessary joiner doors and arches. Archways shall be fitted with flat bar boundary coamings.

Remove the existing bulkhead and deckhead insulation throughout these areas. Furnish and install in same locations 1" of fiberglass insulation, and provide hard surface covering. The type of insulation and covering, and the method of installation shall be in accordance with the general portions of these specifications.

Provide a total of fourteen (14) sets of 2-high crew type berths, complete with berth lights and mattresses. Provide one (1) secretary bureau in each stateroom. Provide one (1) coat and hat hook, and one (1) full length crew type locker, 18" x 21" for each berth installed in each stateroom in locations as shown. The secretary bureaus shall be low boy type and shall be generally constructed in accordance with the general type plan. One (1) washbasin shall be provided in each stateroom. In way of the washbasin, install one (1) toilet case, mirror light, a soap dish and towel rack.

In the toilet and shower space, frs. 146-150, provide two (2) waterclosets, two (2) showers, two (2) urinals and one (1) washbasin. In way of each watercloset, provide a grab rod, and toilet paper holder. In way of each shower, provide a grab rod, soap dish, towel rack and curtain rod. The shower area shall be provided with a deck drain in addition to individual shower drains. In the toilet area, provide two (2) deck drains.

One (1) 12" x 16" shatterproof glass mirror, mirror light, soap dish, towel rack and a 4" x 15" stainless steel shelf, shall be provided in way of the washbasin. In way of urinals, provide separating partitions, as shown, and grab rods attached to each partition.

Furnish and install two (2) 3'-0" diameter metal tables with linoleum tops, eight (8) straight back chairs, eight (8) lounge chairs, six (6) occasional tables, and one (1) three-person settee in the Officers' Lounge area in location as shown on the contract guidance plan. In addition, provide two (2) bulletin boards in locations as directed. Furniture shall be constructed generally in accordance with the contract guidance furniture plans.

In the cleaning gear locker, frs. 148-150, provide a service sink, mop and broom rack and soap dish.

Remove shelving, etc., from the existing portside deck locker, frs. 142-145 and fit out as a linen locker. Install metal shelving from deck to 7'-0" above deck in location shown. Shelving shall be 24" deep and similar to that specified for linen lockers elsewhere in this item.

64. TRANSIENT OFFICERS' QUARTERS & WASHROOM, FRs. 158-174, MAIN DECK

The existing Decontamination Room, Barber Shop, Engineers' Storeroom and shop shall be rearranged and the area fitted out for Transient Officers' Quarters, as shown on the contract guidance plan. Remove existing obsolete bulkheading, doors, decontamination and laundry equipment, barber shop equipment, shop equipment, obsolete wiring, piping, etc., cleaning out these areas completely. Remove obsolete weather doors, port and starboard, in way of quarters and portside at frame 159.

Erect bulkheading forming the transient officers' staterooms and washroom, as shown. Provide the necessary joiner doors and weathertight entrance doors. Remove the existing structural columns and provide new columns at frs. 166 and 170, as shown. The new columns shall have equivalent strength of the removed columns and shall be properly bracketed to tie in with the existing girders. Deck structure in way of columns shall be adequately reinforced.

Relocate vent trunks in accordance with the "Ventilation" section of these specifications.

Provide a total of seven (7) sets of 2-high crew type berths, complete with mattresses and berth lights. Provide one (1) coat and hat hook and one (1) full length, 18" x 21", crew type locker for each berth installed. Provide one (1) secretary bureau, low boy type, in each stateroom and install one (1) washbasin in each stateroom with the associated washbasin accessories specified previously for the transient officer staterooms.

Install 16" airports in staterooms in locations as shown on contract guidance plan. Airports and port boxes shall be constructed in accordance with requirements set forth for Transient Officers' Quarters, frs. 53 $\frac{1}{2}$ -89.

In the Officers' Washroom and shower space, frs. 172-174, provide two (2) waterclosets two (2) showers and one (1) washbasin in locations as shown on the contract guidance plan. Provide 1/8" steel partial height partitions with joiner doors adjacent to each watercloset. In way of each watercloset provide a grab rod and toilet paper holder. In way of each shower provide a grab rod, soap dish, towel rack and two (2) curtain rods. In way of the washbasin provide a towel rack, toilet case, mirror light and soap dish. The shower area and washroom space shall each be provided with a deck drain.

65. PAINT LOCKER, FRs. 202 $\frac{1}{2}$ -205 $\frac{1}{2}$, MAIN DECK

The existing deck locker, frs. 202 $\frac{1}{2}$ -205 $\frac{1}{2}$, shall be rearranged and fitted out as a paint locker, as indicated on the contract guidance plans. Remove existing obsolete bulkheading, shelving, racks, cabinets, recreational equipment, etc. Erect steel bulkheading forming the area division, remove obsolete port door and blank openings.

Provide "J" type racks constructed generally in accordance with BuShips Dwg. #S3000-860159, in location as shown. The bottom shelf shall be 24" above the deck. The racks shall be 3'-3" deep, flanged up 1" at the front and properly supported. All openings in the boundary bulkheads shall be blanked off and the bulkheads made effectively fumetight. Provide a 2 ft. by 6 ft. metal table with stowage cabinet under. The storeroom shall be provided with an independent CO/2 fire extinguishing system of sufficient capacity to adequately serve the area in accordance with the requirements of the U. S. Coast Guard. The CO/2 bottles shall be located within the storeroom and shall be controlled by a manual release pull station, installed in a readily accessible, protected location, outside of the storeroom, adjacent to the entrance door, recessed into the bulkhead.

66. REMOVAL OF OBSOLETE STRUCTURE, FRs. 227-231, MAIN DECK
Remove existing gun pedestal and brackets, completely leaving the natural vent duct intact.
67. ROOM RESTS, FRAME 205¹, STARBOARD, MAIN DECK
The existing starboard boom rest shall be removed from the deck at frame 208 starboard. Install a new boom rest attached to the house side overhang, at frame 206 starboard. The boom rest shall be similar in construction to the existing port boom rest.
68. TROOP TOILET, FRs. 16-24, 2ND DECK
The existing troop toilet shall be rearranged and fitted out with additional facilities as shown on the contract guidance plan.

Install and connect up two (2) 6 ft. urinal troughs with drains at both ends.
69. TROOP WASHROOM, FRs. 24-40, 2ND DECK
The existing troop washroom space shall be rearranged and fitted out with additional facilities as shown on the contract guidance plan.

Remove the existing two (2) urinal troughs portside abreast the fan room, the two (2) outboard washbasins, frs. 38-40, starboard, and two (2) urinals against the After Escape Trunk.

Provide twenty-one (21) additional washbasins, one (1) 8'-0" urinal trough in locations as shown.

Provide a stainless steel shelf and 12" x 16" shatterproof glass mirror over each washbasin. A mirror light shall be provided for each two (2) washbasins.

Erect steel bulkheading forming a troop cleaning locker on the starboard side, frs. 38-40. Provide a service sink and mop and broom rack in the locker.

Provide partial height separating panels adjacent to urinals and washbasins as indicated on contract guidance plans.
70. TROOP BERTHING AREA, FRs. 40-62, 2nd DECK
Remove the existing issue room and locker bulkheads, table, washroom equipment, piping, etc., berths on the square of the hatch together with deckhead sockets and portable metal deck straps and pads for securing lower end of berths.

Rearrange existing berths and install additional berths as required to provide sets of 3 and 4 high troop "type A" pipe berths as shown on the contract guidance plan. Modify portable chain railing in way of No. 2 Hatch, port and starboard.
71. TROOP BERTHING AREA, FRs. 62-82, SECOND DECK
Remove the existing berths on the square of hatch #3 together with deckhead sockets and portable metal deck straps and pads for securing lower end of berths.

Rehing the door leading to the inboard washroom, frs. 79-82 as shown.

Modify portable chain railing port and starboard and provide additional flush deck sockets as necessary to suit reduced hatch size.

(Continued)

71. TROOP BERTHING AREA, FRs. 62-82, SECOND DECK (Continued)

Rearrange existing berths and install additional berths as required to provide sets of 3 and 4 high troop "type A" berths as shown on the contract guidance plan.

72. TROOP MESSROOM, SECOND DECK AREA, FRs. 62-82.

The area, frs. 82-130, port and starboard, shall be rearranged and reoutfitted as a troop messroom as shown on the contract guidance plan and in accordance with the following.

Remove all existing mess tables complete with stanchions and end attachments. Remove bulkheads forming sculleries, frs. 104-112, port and starboard, and cafeterias frs. 115 $\frac{1}{2}$ -123 port and starboard of centerline. Remove all equipment counters, sinks, dressers, bases, related piping, wiring, etc., from these areas. Remove tray and cup racks adjacent to the cafeteria areas, frs. 115 $\frac{1}{2}$ -123, port and starboard of centerline. Remove existing coffee kettles and obsolete water coolers, fr. 113, port and starboard, and fr. 94, port. Remove partial interior bulkhead and equipment from present storeroom area frs. 82-88. Remove stairway enclosure bulkheads, frs. 122-127 and transverse bulkhead, fr. 118, starboard, except for portion forming forward bulkhead of new garbage disposal room. Provide additional support for W.T. door handwheel in way of removed bulkhead, fr. 118, starboard.

Alter existing bulkheads and erect new steel bulkheads and joiner doors to form new garbage room, scullery and storeroom areas, frs. 82-91, port and frs. 118-130 starboard, new cafeteria area, frs. 113-123 starboard of centerline and new cleaning gear locker, frs. 101-105 starboard as indicated on contract guidance plan. New stairwell enclosure bulkheads, frs. 103-107 port, 99 $\frac{1}{2}$ -106 $\frac{1}{2}$ starboard and frs. 122 $\frac{1}{2}$ -127 starboard and new access ladder shall be provided in accordance with requirements in other sections of specifications. Bulkheads and doors forming new garbage room shall be 10.2# steel plate of fumetight construction. Bulkheads forming new sculleries and cafeteria shall be of 10.2# steel plate. Lower section of bulkhead shall terminate level with counter in way of serving or passing openings. Hinged closure panels shall be of heavy flattened expanded metal about 36" high, hinged at top to swing out of scullery or cafeteria area and provided with suitable holding and locking devices. Entrance doors to sculleries shall be "Dutch" type fitted with hinged shelf on lower section. Door between scullery and garbage room shall be half height fumetight door below scullery counter level for passage of garbage cans from scullery to garbage room.

In the new cafeteria, frs. 113-123 starboard of centerline, provide one (1) tray rack, one (1) bowl and cup rack, one (1) steam table counter 13'-0" long, one (1) ice cream cabinet, one (1) continuous section of 30" wide dresser about 27'-0" long with integral 24" x 24" x 12" sink, drawers and shelves under, section of 12" wide overshef, one (1) rotary toaster and section of tray slide in way of serving counter, all as shown on contract guidance plan. In each new scullery, frs. 84 $\frac{1}{2}$ -87 $\frac{1}{2}$ port and frs. 121-130 starboard provide one (1) dishwashing machine, sections of continuous 30" wide dresser with rectangular rubber covered stripping hole, integral 24" x 24" x 12" sinks, tray and G.I. can stowage racks and sections of overshefves all as shown on contract guidance plan.

(Continued)

72. TROOP MESSROOM, SECOND DECK (Continued)

The new scullery and cafeteria equipment shall be in accordance with the following. Existing steam table and dresser bases and sections of dressers, counters, and tray slides generally in agreement with the standards specified may be reused, if modified to suit the new arrangements and fitted with polished stainless steel or nickel copper alloy tops, shelves and specified fittings.

All equipment shall be properly connected up to steam, water, drain and power lines as required, with all necessary safety devices and pressure reducing valves. All hardware and fittings to be of extra heavy marine design.. Tops of dressers, counters, drainboards, etc., shall be of #12 USSG polished stainless steel continuously butt welded, ground and polished at all joints. Bulkhead mounted dressers counters, etc., shall have a 10" high integral splash back flashed around bulkhead stiffeners. All exposed edges of dressers, except where a 2" high coaming is indicated, shall have integral $3/4$ " raised rolled edges, turned down into a trim of about $1\frac{1}{2}$ " below working surface. Where a 2" high coaming is indicated it shall be of double thickness with smooth hemmed top, turned down into a trim of about $1\frac{1}{2}$ " below working surface. Bases for equipment shall be constructed with a framework of not less than $1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $3/16$ " galvanized angle iron, all corners mitered, welded, ground and finished smooth. Bases shall be installed for working surfaces 36" high. Enclosures for bases shall be #16 USSG galvanized steel.

Steam table shall be 13' -0" long with cuts for seven (7) 15" x 20" meat pans. Top of steam table shall be constructed of #12 USSG polished stainless steel with all openings smoothly finished and top reinforced in way of openings. Meat pans to be seamless drawn, stainless steel. Steam table base and enclosures to be constructed to same requirement as specified for dressers. Water pan to be #18 USSG stainless steel or copper, all seams welded or brazed tight. A water filling and drainage connection shall be provided and water pan shall be pitched to drainage connection. Seamless copper steam coils shall be provided in water pan. Steam table enclosure shall be fitted with #16 USSG polished stainless steel perforated, removable bottom shelf with galvanized wrought iron steam coils secured between shelf and bottom of steam table enclosure. Back of steam table shall be fitted with galvanized steel sliding board on roller bearings with bottomless tracks. Front, back and ends of steam table shall be insulated. Insulation shall be faced on interior side with galvanized steel. Undershelves shall consist of a bottom and intermediate shelf of #12 USSG polished stainless steel..The bottom shelf shall be removable. Where undershelves are indicated front of dresser enclosures shall be fitted with galvanized steel sliding doors on roller bearings with bottomless tracks. Overshelves shall be 12" wide, of #16 USSG polished stainless steel with back and ends turned up 2" and hemmed down for $1\frac{1}{2}$ " and turned back 90° for $1\frac{1}{2}$ ". Shelves shall be supported on #14 USSG galvanized steel brackets located on stiffeners or on 36" spacing. Sinks shall be constructed integral with respective dressers, of stainless steel with inside and outside corners, both vertical and horizontal, rounded. Bottom of sink shall be pitched to drain. Externally controlled steam injectors and lever operated wastes, and thermometer wells shall be fitted in sinks. Drawers under dressers shall consist of a tier of three (3) drawers, one over the other, the first two (2) 6" deep, the bottom one (1) 9" deep. Drawers shall be 20" x 20" constructed of #18 USSG stainless steel with $\frac{1}{2}$ " x $\frac{1}{2}$ " channel edges at top and back edge, reinforced with 1" x 1" x $1/8$ " galvanized angle iron. Front shall be #12 USSG stainless steel with marine type chrome plated white metal handle.

(Continued)

72. EXISTING DRESSER AND BOWL RACK (Contract)

Drawer shall ride on roller bearing casters and shall be fitted with tilt type positive stop at open position. Drawer shall be designed to require a 1/4" minimum lift to permit being pulled open. Cylinder type locks shall be fitted on all drawers. Basket racks under dressers in sculleries shall consist of small galvanized steel angle supports and guides spaced for the storage of standard 20" x 20" dishwashing machine baskets stowed with clean trays. Where G.I. can stowage under dresser is indicated, portable retaining battens shall be fitted for securing of G.I. cans. Galvanized steel enclosure shall be fitted under dresser wherever area assigned to G.I. can storage is adjacent to basket rack storage. Tray rack shall be in accordance with Dwg. S3402-1178547 with capacity of about 600 trays. Bowl and cup rack shall be "type A" in accordance with Dwg. S3402-1178548. Toaster shall be motor driven conveyor type, adjustable thermostatic control, approx. capacity 720 slices per hour "Savory Model CT-4" or equal. Ice cream cabinet shall be six (6) 5 gal. container capacity with stainless steel removable covers, "Frigidaire Model P301D" or equal. Dishwashing machines shall be the existing machines from the removed sculleries frs. 104-112 port and starboard, relocated and connected up in the new areas. The dresser ends shall be smoothly faired into the dishwashing machine openings. A drain trough section with removable strainer plate shall be fitted in the dressers at both ends of the dishwashing machine as shown on contract guidance plan.

The three (3) existing removed coffee kettles shall be relocated and connected up in locations shown on contract guidance plan. One (1) additional 100 gallon coffee kettle shall be installed. Kettle shall be for 40 p.s.i. steam, seamless drawn stainless steel shell, two thirds jacketed, welded pipe connections, polished finish outside, satin finish inside, three (3) tubular legs and hinged cover. Provision shall be made for remote opening and holdback for covers on new and relocated coffee kettles. A six inch high coaming shall be provided on deck around each coffee urn area as shown on plan. An 18" wide dresser unit with stowage cabinets under shall be provided adjacent to each coffee urn area as shown on plan. In way of ladder frs. 113 to 114 port of centerline partial bulkhead shall be erected forming splashback in way of dresser unit.

In each garbage room frs. 88 $\frac{1}{2}$ -91 port and frs. 118-121 stbd., provide one (1) garbage chute and lashing staples around the interior perimeter bulkheads for securing of G.I. cans. Chute shall have hopper of cast steel or welded construction about 24" x 24" with a hinged, dogged watertight cover. Cover shall be counter-balanced and provided with holdback in open position. Hopper shall be bolted to a 10" diameter discharge pipe which shall be led overboard just above the load water line. Discharge line shall be fitted with an approved screw down check valve operable from the garbage room. A 1" diameter, salt water flushing line shall be connected into the hopper. A 3/4" steam line shall be provided adjacent to chute fitted with approved valves for use as a steam lance. Connection shall be made to suitable length of 1/2" steam hose with wooden handle, valve, and 3/4" galvanized pipe lance. Length of galvanized pipe and steam hose shall be sufficient to reach to bottom of hopper. Hanger for steam lance shall be provided in garbage room.

In way of G.I. can stowage in recessed section outside garbage rooms provide lashing staples on exterior bulkhead and six inch coaming on deck as shown on plan. Provide half height steel plate doors in way of G.I. can stowage in Garbage Room bulkheads, in locations as shown.

In the existing cafeteria sections frs. 82-92, port of centerline and frs. 82-92, starboard remove existing entrance doors and provide new joiner sliding entrance doors with same clear opening as removed doors.

v (continued)

72. TROOP MESSROOM, SECOND DECK (Continued)

In the existing cafeteria sections frs. 82-92, port of centerline remove locker frs. 82-83 and extend inboard dresser to bulkhead 82. Provide new rotary toaster located as shown on plan. Toaster shall be same as specified for new cafeteria area.

In the new stewards stores area, frs. 82-84 port, provide #14 USSG galvanized steel shelves as shown on plan. Shelves shall be 24" wide spaced 24" apart from deck to 6' -0" above deck, with raised coaming and portable retaining battens.

In the new cleaning gear locker frs. 101-104 $\frac{1}{2}$ stbd., provide one (1) slop sink, #14 USSG galvanized steel shelves and about 10' length of mop and broom rack all as shown on contract guidance plan. Shelves shall be 18" wide spaced 18" apart from 3' -0" above deck to 6' -0" above deck with raised coamings and portable retaining battens.

In each of the new scullery and cafeteria areas provide at least two (2) deck drains. In each of the new garbage room, cleaning gear locker, and coffee urn areas provide at least one (1) deck drain. Deck drains shall have removable strainer plates with a free cross sectional area of twice the drain area.

In the messroom area provide a total of six (6) 14' -0" long, two (2) 12' -0" long, twenty (20) 10' -0" long, twenty-nine (29) 8' -0" long, six (6) 3' -0" long and two (2) 4' -0" long sit down/standup metal top mess tables. Mess tables shall be similar and equal in construction to MSTC Dwg. S3402-1178587 and located as shown on contract guidance plan. Where, due to location adjacent to bulkheads or railing, only one side of table or portion of table, is used, folding bench detail shall be suitably modified. Outboard tables in way of side ports, frs. 114-118, shall be made portable and deck connection for supporting stanchions shall be modified to provide portability without loss of stability or access between tables. Two-course pipe and/or chain protective railings, frs. 84-90 port, frs. 92 port, 92-95 port of centerline, 96 $\frac{1}{2}$ centerline, 93-96 starboard of centerline, 114-120 starboard, and frame 117 starboard shall be provided as shown on contract guidance plan.

Provide and install two (2) ice cube making machines in locations as shown on the contract guidance plan. The ice cube making machines shall be York Model 450 A, or equal, 115 volt single phase, 60 cycle (without ice crusher). The machine shall be installed in accordance with manufacturer's recommendations.

The inlet condenser circulating water piping shall be tied into the ship's fresh water system and the discharge piping shall be tied into the suction side of specified fresh water pump.

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73. TROOP RECORDS STOWAGE AREA, FRs. 82-92 STARBOARD, SECOND DECK
Erect bulkheading and provide joiner entrance door forming the Troop Records Stowage Area as shown on the contract guidance plans. The entrance door shall be fitted with a hasp and padlock.
74. CLEANING GEAR LOCKER, FRs. 171 $\frac{1}{2}$ - 172 $\frac{1}{2}$ STBD, SECOND DECK
Erect steel bulkheading forming the cleaning gear locker and provide joiner access door. Provide a service sink and mop and broom rack and soap dish
75. LINEN LOCKERS, FRs. 183 $\frac{1}{2}$ -186 PORT, & 183 - 186 STBD, SECOND DECK
Remove all existing troop berths, complete with deck and deckhead fittings, between frs. 175 $\frac{1}{2}$ - 186.
Erect bulkheading forming linen lockers and provide joiner entrance doors. In the linen lockers provide shelving as shown extending from deck to 7' -0" above deck. The shelving shall be of metal construction with flanged fronts, spaced 18" apart. Change swing of port passageway door, fr. 186, as shown on plan.
76. ENLISTED MEN'S LAUNDRY & TROOP SHOWERS, FRs. 190-193, SECOND DECK
The centerline wet spaces shall be rearranged and fitted out as shown on the contract guidance plan. Remove the obsolete bulkheading, doors, electrical equipment, etc., and erect new sections of bulkheading, and provide joiner entrance doors as shown. Blank openings in way of removed doors.
In the Troop Shower Room remove the existing showers, piping, fittings, etc., and provide four (4) showers. In way of each of the showers provide a grab rod, soap dish and curtain rod. Provide a deck drain and towel rack for each shower in the area.
In the Permanent Enlisted Men's Laundry install and connect up one (1) domestic type washing machine, equal to American Laundry Mach. Co., N.Y.C., Model 20 x 20, 230 volt, D.C. and provide two 18" x 18" x 12" stainless steel or nickel copper alloy laundry sinks with integral drainboards.
77. TROOP BERTHING AREA, FRs. 186-210, SECOND DECK
The existing crew, passenger and centerline troop quarters shall be rearranged and the area fitted out as a troop compartment. Remove the existing bulkheads, furniture stateroom equipment, lighting fixtures, lockers, washroom equipment, piping, etc., cleaning out these areas completely, as indicated on the contract guidance plan. Remove the existing berths on the square of the hatch together with deckhead sockets and portable metal straps for securing lower end of berth.
Provide a portable chain rail port and starboard in way of hatch #7 and rail stanchions.
Deck sockets shall be flush with the deck.
Rearrange the existing berths and install additional berths as required to provide sets of 4-high troop "type A" pipe berths as shown.
78. ENL. MEN'S & CPO'S QTRS., FRs. 186-197 PORT, SECOND DECK
The area on the port side frs. 186-197 shall be fitted out as Enlisted Men's quarters. Erect bulkheading and provide joiner access doors in locations shown on contract guidance plan. Provide a joiner passageway door at frame 194 port.
In each of the Enlisted Men's staterooms provide three (3) sets of three-high transient officer (type B) berths complete with mattresses and berth lights, five (5) 2-high (type B2) lockers, one (1) peacoat locker, one (1) bookrack (type B), racks for nine (9) life preservers, one (1) metal table 2' x 4' with linoleum top and two (2) metal benches.
In the CPO stateroom provide one (1) set of 2-high crew type berths, complete with mattresses and berth lights. Install two (2) full length lockers and one (1) hinged log desk, life preserver rack for two, and one (1) bookrack (type B).

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78. ENL. MEN'S & CPO'S QTRS., FRs. 186-197 PORT, SECOND DECK (Cont'd)

In each room provide one (1) washbasin, complete with toilet case, mirror light, soap dish and towel rack.

79. TROOP WASHROOM AND TOILET SPACES, FRs. 210-225, SECOND DECK

The existing troop washroom and toilet spaces shall be rearranged and washroom facilities added as indicated on contract guidance plan.

Remove the existing four (4) urinals on the portside. Install one (1) additional shower in the starboard area, frs. 218-219.

Provide one (1) ADDITIONAL WATERCLOSET, ONE (1) 14" -0" and one (1) 12" -0" urinal troughs, and twelve (12) washbasins, as shown on plan. In way of the shower provide a grab rod, soap dish and towel rack or hook. Adjacent to the watercloset provide a grab rod and toilet paperholder. Provide a 4" wide stainless steel shelf, 12" x 16" shatterproof glass mirror over each washbasin. A mirror light shall be provided for each two (2) washbasins.

Provide partial height separating panels adjacent to urinals and washbasins, as indicated on contract guidance plans.

80. TROOP CLEANING GEAR LOCKER, FRs. 225-230, PORT, SECOND DECK

Remove existing equipment, metal grating, etc., and provide a service sink and mop, and broom rack in locations as shown.

81. TROOP WASHROOM, FRs. 79-82, SECOND DECK

In the existing washroom, frs. 79-82 centerline, remove urinal and provide two (2) washbasins, complete with 12" x 16" shatterproof glass mirror, mirror light and 4" wide stainless steel shelf over each washbasin.

82. TROOP WASHROOM & TOILET SPACE, FRs. 16-40, 3RD DECK

The Troop Washroom shall be rearranged and fitted out with additional facilities as indicated on the contract guidance plan. Relocate the existing hot water tanks, complete with piping accessories, etc., from the present location to the location shown between frs. 24½ - 27. Remove the existing urinals from frs. 25-27 centerline, and frame 36 port and starboard.

Provide twenty-four (24) washbasins, one (1) 9" -0" urinal trough and one (1) 7" -0" urinal trough. Provide partial height separation panels at end of urinals where abutting against basins. Provide a 4" wide stainless steel shelf and 12" x 16" shatterproof glass mirror over each washbasin. A mirror light shall be installed for each two (2) washbasins. Provide three (3) additional waterclosets starboard side, at frs. 17, 19, and 28.

Erect bulkheading and provide door forming Troop Cleaning Gear Locker, as shown. Provide a service sink and mop and broom rack in location as shown.

Prior to re-installation of hot water tanks, all valves, controls, thermostats, etc., shall be completely overhauled, and all missing or defective parts renewed. The new urinal troughs port and starboard of the relocated water heaters shall be mounted on vertical deck-to-deck pipe stanchions, and all connections, both mechanical and piping, shall be arranged so as to facilitate ready removal of urinal troughs for access to heaters, when required for repairs thereto. All missing or damaged insulation shall be repaired and/or renewed.

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83. TROOP SHOWER ROOM, FRs. 40-44, THIRD DECK
 Modify the after shower room bulkhead as indicated on the contract guidance plan and remove wooden froom rack. Remove showers against after bulkhead and provide four (4) additional showers for a total of fourteen (14) showers in the space. In way of each shower provide a grab rod, towel rack or hook and soap dish. The entrance doors port shall be relocated as necessary to clear shower stalls.
84. TROOP BERTHING AREA, FRs. 40-62, THIRD DECK
 Remove the existing berths on the square of the hatch together with deckhead sockets and portable metal straps and pads for securing lower ends of berths.
- Rearrange existing berths and install additional berths as required to provide sets of 3 and 4-high troop type "A" pipe berths as shown on the contract guidance plan. Remove existing rail stanchion box. Modify portable chain railing in way of No. 2 hatch, port and starboard.
85. TROOP BERTHING AREA, FRs. 62-82, THIRD DECK
 Remove existing berths on the square of the hatch together with portable metal straps and pads for securing lower ends of berths and deckhead sockets. Remove existing rail stanchion box. Modify portable chain railing in way of No. 3 Hatch, port and starboard.
86. Rearrange existing berths and install additional sets of 3 and 4-high troop type "A" pipe berths as shown on the contract guidance plan.
86. GARBAGE GRINDER, FRs. 93-96 STARBOARD, THIRD DECK
 Install and connect up a Government-furnished garbage grinder between frames 93-96 on starboard side abreast the Galley. Grinder motor shall be connected to the ship's 240 volt D.C. power as hereinafter specified.
- The Government-furnished garbage grinder will be down running, swing hammer type, 1600 pounds per hour capacity, constructed in accordance with requirements of Military Specification MIL-G-1260 of latest issue. Specified spare parts, instruction books, drawings, etc., shall be provided by the Government. The garbage grinder installation shall be complete with all required foundations, doublers, wiring, flusing and discharge connections, etc. The discharge of the ground garbage shall be directly overboard through an 8" diameter line. The discharge shall be fitted with a remotely operated, screw-down, non-return valve, operable at the garbage disposal area and remotely above the bulkhead deck in accordance with U. S. Coast Guard requirements.
- Provide a 6" coaming around the grinder, as shown on the contract guidance plan, and provide bulkhead staples for securing garbage cans.
87. ENGINE YEOMAN'S OFFICE, FRs. 115-118
 The existing Engine Yeoman's Office portside, frs. 113-118, shall be rearranged and fitted out as Yeoman's Office and Fan Room. Remove existing superfluous office equipment, lockers, file cabinets, etc. Erect bulkheading subdividing Engine Yeoman's Office and Fan Room. Provide an additional door leading to the Fan Room. In the Engine Yeoman's Office, provide one (1) single left-hand pedestal typewriter desk, three (3) file cabinets (type C), one (1) bookrack (type A), one (1) desk lamp and one (1) 2'-6" by 5'-0" metal work table with linoleum top in locations as shown.

92. ARMORY AND CHAPLAIN'S STOREROOM, FRS. 164-166 (Continued)

In the Chaplain's Storeroom, provide galvanized steel shelving 24" deep and spaced 24" extending from deck to 6'-0" above deck, in locations as indicated. Shelving shall be fitted with raised front and portable retaining battens between shelves.

93. CHAPLAIN'S OFFICE & PERMANENT ENL. MEN'S OFFICE, FRS. 161-166, STARBOARD

The existing brig area shall be rearranged and fitted out as specified office spaces, as shown on the contract guidance plan. Remove obsolete bulkheading, equipment, doors, etc., cleaning out these areas. Blank openings in way of removed doors. Erect bulkheading subdividing the office spaces and provide new joiner entrance doors.

In the Chaplain's Office, install one (1) bookrack (type B), one (1) filing cabinet (type C), one (1) filing cabinet (type D), one (1) bookcase 4 ft. long, one (1) single pedestal typewriter desk, left-hand pedestal, one (1) metal table with linoleum top and cabinets under, 60" x 24", two (2) coat and hat hooks, one (1) desk light, and two (2) straight back chairs, arranged as indicated on contract guidance plan.

In the Permanent Enlisted Men's Office, provide two (2) single pedestal typewriter desks, one (1) left-hand and one (1) right-hand, two (2) bookracks (type B), one (1) filing cabinet (type C), one (1) filing cabinet (type D), four (4) coat and hat hooks two (2) desk lights, three (3) straight back chairs and one (1) metal table with linoleum tops and cabinets under, 72" x 24".

94. CREW QUARTERS & LAUNDRY, FRS. 175-186

Remove existing troop berths from the square of the #6 Hatch and berth in center-line area, frs. 182-186. Remove existing deckhead sockets and portable metal straps for securing lower ends of berths.

Erect bulkheading and provide joiner doors forming crew stateroom and laundry, as indicated on contract guidance plan.

Install two (2) sets of 2-high crew type berths, complete with mattresses and berth lights, four (4) crew type lockers, one (1) bookrack, one (1) hinged log desk and racks for four (4) life preservers, and one (1) washbasin in the Crew S.R., in location as shown. In way of washbasin provide toilet case, mirror light, soap dish and towel rack.

In the crew laundry, provide, install and connect up two (2) domestic type washing machines, similar and equal to American Laundry Machinery Co., N.Y.C., Model 20 x 20, 230 volt, D.C., and two (2) 18" x 18" x 12" stainless steel or nickel-nickel alloy laundry sinks with integral drainboards, in locations shown on the contract guidance plan.

Remove the longitudinal bulkheads port and starboard between frs. 175-181, and erect new 1/4" steel plate bulkheads in same location, suitably stiffened with split pipe stiffeners on the hatch side. Provide a steel plate access door, port and starboard in locations shown. Modify portable chain railing in way of No. 6 Hatch.

95. TROOP BERTHING AREA, FRS. 186-204
Remove existing berths from the square of the hatch, lockers, etc., also remove deck-head sockets and portable metal deck straps and pads securing lower ends of berths.
Rearrange existing berths and install additional sets of berths as required to provide sets of 3 and 4-high troop "type A" pipe berths as shown on the contract guidance plan. Modify portable chain railing in way of No. 7 Hatch.
96. TROOP WASHROOM, FRS. 204-210
Remove the six (6) existing urinal troughs, frame 207 starboard. Remove two (2) existing shower stalls, complete with fittings, piping, etc., located at frame 204, in way of relocated door. Relocate steel plate entrance door as shown. Install and connect up a service sink inboard of showers at frame 204. Provide twenty-five (25) washbasins and two (2) 12'-0" urinals in locations as shown on the contract guidance plan.
In way of washbasins provide a 12" x 16" shatterproof glass mirror, soap dish and 4" x 15" stainless steel shelf. Provide a mirror light for each two (2) washbasins. Provide partial height bulkheads at back of urinals as shown.
97. TROOP WASHROOM FRS. 210-218
Relocate archway from frame 211 port to frame 217. Blank opening in way of old archway. Provide and install pipe edging around archway opening. Provide and install pipe edging around archway opening. Provide and install twelve (12) additional wash basins. In way of each wash basin whether new or existing provide and install a 4" wide stainless steel shelf and a 12" x 16" shatterproof glass mirror. Provide and install a mirror light for each two (2) wash basins both new and existing.
Thoroughly clean and overhaul the two (2) hot water heaters existing between frames 210 and 215, renewing or replacing all deteriorated, broken, or missing piping, lagging, valves, thermostats, tubes, etc., as may be required to place heaters in good working order.
98. TROOP WASHROOM, FRS. 62-65
Remove existing urinal in washroom, frs. 62-65 starboard. Provide a total of four (4) additional washbasins in washrooms, frs. 62-65, port and starboard. Provide a 4" wide stainless steel shelf, 12" x 16" shatterproof glass mirror and mirror light in way of each washbasin.
99. C.P.O. MESS, FRS. 102-106, STARBOARD
Remove existing four-person mess table, fr. 105, and relocate to Enlisted Men's Mess, frs. 102-107, port. Remove existing two (2) person mess table and install same in way of removed four (4) person table, as shown on the contract guidance plan.
100. ENLISTED MENS'S MESS, FRS. 102-107, PORT
Remove existing wood table, fr. 105, and install one (1) four (4) person mess table, relocated from C.P.O. Mess, frs. 102-106, starboard.

101. PRISONER GUARD AREA, FRs. 16-30

The area, frs. 16-30 shall be rearranged and fitted out as a prisoner guard area, as shown on contract guidance plan. Erect new steel bulkheads and steel plate door forming guard area as indicated. Door leading into prisoner area shall be fitted with a barred viewing panel, with hinged shutter and a locking bar extending across the door. Provide one (1) watercloset and one (1) washbasin located as shown on contract guidance plan. Washroom equipment shall be located on a new diamond plate platform, about 24" above the 1st Platform level. Drain and soil line shall discharge overboard. Overboard discharge shall be below the platform and in accordance with the requirements in "General" section of item, except that if the installation is of two (2) non-return valves, one (1) of the valves shall be screw-down type, operated by wrench or special tool. Provide a 12" x 16" polished, stainless steel mirror and a 4" x 15" stainless steel shelf over washbasin. Provide access steps and pipe handrail and remove obsolete berths, and provide three and four-high troop (type A) pipe berths to agree with arrangement indicated on plan. The existing manhole port of centerline at fr. 16 shall be fitted with a padlock and hasp suitable for locking the manhole from the underside of the deck.

102. TROOP BERTHING AREAS, FRs. 30-40, 40-62, 62-82, 82-102, 166-186 & 186-210

Remove existing berths on the hatch squares together with portable metal straps and pads for securing lower ends of berths and deckhead sockets. Remove obsolete berths, and provide new 3 and 4-high troop (type A) pipe berths to agree with the arrangement indicated on contract guidance plan. Modify portable chain railing in way of all hatches as necessary.

103. LAUNDRY FRs. 118-130, STARBOARD

The area, frs. 118-130, starboard, shall be fitted out for an additional laundry, as shown on the contract guidance plan. Remove all shelves, desks, equipment, etc., from the area. Remove longitudinal expanded metal bulkhead, frs. 118-123½. Install new 30" steel door in transverse bulkhead, fr. 123½. In the new laundry furnish and install one (1) washing machine, 42" dia. x 54" long, similar or equal to U.S. Hoffman Mach. Corp., Model 13364, Type BBEDBB, two (2) extractors, 30" dia., similar or equal to U.S. Hoffman Mach. Corp., Model 7030, Type BAA, two (2) tumbler driers, 36" dia. x 30" deep, similar or equal to U.S. Hoffman Mach. Corp., Model 9630, Type FAECOA, four presses, similar or equal to American Laundry Mach. Corp., Model 5138, one (1) worktable, 2'-6" wide x 8'-0" long, with ash wood top, and drawers and shelves under, and one (1) worktable, 2'-0" wide x 7'-0" long, with ash wood top. Electrical equipment shall be suitable for operation on 230 volt D.C. Install a 6" high steel watertight coaming in way of extractors and washing machine. All equipment shall be arranged and installed as indicated on the contract guidance plan.

All equipment shall be mounted on suitable foundations and properly secured. Electrical lighting and wiring shall be modified or rearranged and new lighting, power circuits, plug-in outlets, switches, etc., shall be furnished and installed to suit the new installations. Motor controllers shall be located adjacent to each machine. All electrical work shall conform with the requirements and standards outlined in the electrical section of these specifications. Laundry equipment shall be properly connected to necessary steam lines, hot and cold fresh water lines, and drainage systems as required.

104. TROOP RECREATION AND BERTHING AREAS, FRs. 146-166

The area, frs. 146-166, shall be altered to provide troop berthing and recreation areas on the port side and troop recreation area on the starboard side, arranged as shown on the contract guidance plan. The port and starboard recreation areas shall be convertible to troop berthing areas. Remove all berths, straps, sockets, equipment, etc., from this area. Erect new steel bulkheads and joiner doors, forming area divisions, sound system control room, library and locker. Stairwell enclosures shall be erected and insulated in accordance with fire control requirements of this specification. Entrance door to library shall be "Dutch" type.

Provide 3-high and 4-high troop (type A) pipe berths to make the port troop berthing area conform to the arrangement shown on the plan. Provide deck and deckhead sockets in the port and starboard recreation areas to accommodate troop (type A) pipe berths in locations shown on plan. Provide and properly fit the required number of 3 and 4-high troop (type A) berths, chains and stanchions for the recreation areas and stow them in the locker, frs. 146-152, 2nd Platform level. All berths and berth stanchions in the recreation areas shall be made readily removable and portable with tops of deck sockets flush with magnesite deck covering. In the recreation areas provide a total of eleven (11) hinged wall tables, eleven (11) folding metal bridge tables per Mil. Specification MIL-T-1169, two (2) bulletin boards, and one (1) portable motion picture projector table with foot stools, and roll-down type beaded glass projection screen, located as shown on contract guidance plan. In the library, provide continuous metal shelving around the room. Shelving shall be 18" deep, spaced 12" apart from deck to 6'-0" above deck with raised front and portable retaining battens between shelves. In the locker area, provide 24" deep metal shelves and portable battens for storage of 200 Government furnished folding metal chairs. Shelves shall be spaced 24" apart from deck to 6'-0" above deck with raised front and portable retaining battens between shelves. Provide a 4'-0" x 4'-0" hatch with 6" radius corners between frs. 150 $\frac{1}{2}$ -152, port of centerline. Hatch shall be fitted with hinged, dogged cover, with suitable holdback device. A fixed vertical steel ladder shall be provided for access to the troop berth stowage locker below. All lighting circuits, except emergency within the respective recreation areas shall be controlled by separate 2-pole fused safety switches, mounted on the transverse bulkhead, frame 166 starboard, and on the port side longitudinal bulkhead, frame 148 $\frac{1}{2}$ centerline just forward of door. Power supply for Government furnished movie projector shall be in accordance with electrical item of specification.

105. STEERING GEAR ROOM, FRs. 210-230

Remove the expanded metal bulkhead forming obsolete stairwell enclosure, frs. 210-215 starboard and install new enclosure in accordance with the fire control requirements of this specification.

106. DECK STORES, FRs., 24-40

Provide a 30" wide by 7'-0" high opening in the athwartship bulkhead at frame 32. Archway shall be fitted with a flat bar coaming. Shelving in way of opening shall be modified as required.

107. STEWARDS' STOREROOMS, FRs. 62-82

The existing stewards stores flat shall be extended forward to the watertight bulkhead at frame 62. The extension shall include the installation of a stores hatch 12'-6" by 20'-0" in size, complete with necessary strongbacks, metalumber type hatch boards and portable chain guard rails. Scantlings shall be similar to existing adjoining area and shall conform to requirements of the American Bureau of Shipping for full cargo loading in this area.

(Continued)

107. STEWARDS' STOREROOMS, FRs. 62-82 (CONTINUED)

Erect new 1/4" bulkheads properly stiffened to form new storerooms between frs. 62-71. Also provide new 42" wide steel plate doors, complete with heavy hasps and padlocks, at fr. 67, centerline, and frame 68, port and starboard.

The existing door to the storeroom between frs. 79 and 82, port, shall be blanked off and a new 30" wide access opening cut in the bulkhead between the storerooms at fr. 79. Modify existing shelving in way of arch. A 48" wide by 7'-0" high access opening shall be provided in the athwartship bulkhead at frame 76 1/2, approximately 6'-0" starboard of centerline. Edges of access opening shall be covered with split pipe stiffener.

The existing fore and aft bulkhead, approximately 2'-0" starboard of centerline, between frs. 78 and 82, shall be removed and a new 1/4" steel plate fore and aft bulkhead erected between frs. 76 1/2 and 82, approximately 12'-6" starboard of centerline. The new bulkhead shall be fitted with a 36" wide steel plate door, complete with heavy hasp and padlock.

Erect new bulkheads to form stewards' dry storerooms between frs. 79 and 82, port and starboard of centerline. Remove desk and locker in way of storerooms. The bulkheads shall be constructed of 1/4" steel 42" high with heavy expanded metal extending from the top of the steel plate to the deckhead. Doors of similar construction shall be provided for each storeroom. The doors shall be 36" wide and complete with heavy hasp and padlock.

The existing battens in these storerooms shall be relocated and new portable, metal battens and sockets provided, as required to conform with arrangement as shown on the drawing. Existing gratings shall be modified as required in altered storeroom spaces and new gratings installed in new storerooms. New gratings shall be of wood, finished with two (2) coats of orange shellac, constructed in accordance with rat proofing requirements of the U. S. Public Health Service. The portable battens shall be spaced on 12" centers.

108. THAW ROOM, FRs. 82-86

The mechanical cows, ice box and ice cream mixer and ice freezer shall be removed from the Ice Making Room between frs. 82 and 86, starboard, and remove a portion of the inboard bulkhead and access door to this area. Also remove the cutting board, band saw and block from the area outside the room between frs. 82 and 86. Erect 1/4" steel plate bulkhead to enlarge room as shown on drawing. Provide new steel plate door, with heavy hasp and padlock, in the new bulkhead.

Furnish and install stainless steel thaw racks on the forward bulkhead, as shown on the drawing. Thaw racks shall be per drawing B811, except three (3) thaw shelves shall be installed spaced 24" apart. Provide a new deck drain in the forward inboard corner of the room. On the after bulkhead provide an 18'-6" section of dresser. The dresser shall have a stainless steel top and galvanized iron base, and the construction and gauge thickness shall be similar to that specified below for the equipment in the Butcher Shop. The dresser shall have a 16" high splash back. The inboard section of dresser shall be recessed to accommodate a 7'-0" long hardwood cutting board. An integral 24" x 24" x 15" deep sink shall be provided as shown. The sink shall be fitted with a steam injection line in addition to hot and cold fresh water connections and drain lines, with externally controlled lever type waste. In addition, provide a removable high pipe overflow type drain.

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108. THAW ROOM, FRs. 82-86, (CONTINUED)

Provide and install two (2) meat slicers and one (1) meat chopper atop the dresser in locations as shown. In addition, provide a suitable meat rail overhead in way of the thaw racks.

109. BUTCHER SHOP

Remove all existing equipment including built-in dressers and sinks, work tables, blocks, etc., from the butcher shop between frs. 87 and 92. Furnish and install a new stainless steel dresser with two (2) built-in sinks against the forward bulkhead. Sinks shall be 24" x 20" x 15" deep and shall be fitted with a steam injection line in addition to hot and cold fresh water connections and drain lines, with externally controlled lever type waste. In addition, provide a removable high pipe overflow type drain for each sink.

Top of dresser and sinks shall be of #12 USSG polished stainless steel continuously butt welded, ground and polished at all joints with a 10" high splash back flashed around bulkhead stiffeners. All exposed edges shall have 3/4" raised, rolled edges, as specified for troop mess equipment. The bases shall be of 1-1/2" x 1-1/2" x 3/16" galvanized angle iron with shelving and drawers under. The forward section of dresser shall be fitted with a #16 USSG stainless steel, closed base with sliding doors and drawers under.

On the after bulkhead provide a dresser of similar base construction to that previously specified, with the top recessed to accommodate a hardwood cutting board approximately 11' 0" long. Install two (2) 30" x 30" hardwood butcher blocks, two (2) meat saws and one (1) tenderizer in location as shown. The existing butcher shop equipment may be reused provided it is placed in first class condition. The existing equipment to be relocated and the new equipment shall be properly secured in place and connected up.

The contractor shall provide new meat slicer, meat saw and butcher block of similar construction and type to the existing.

110. STORES AREAS, FRs. 146-166

Remove existing shelving, battens, bulkhead, etc., in the stores area, frs. 146 to 166, as required, and erect new bulkheading. Shelves and battens to conform with the arrangement as shown on the contract guidance plan.

The bulkheads surrounding the loading space between frs. 150 and 166 shall be of 1/4" steel plate, properly stiffened. Doors to storerooms shall be 42" wide, 1/4" steel plate, complete with a heavy locking bar and padlock. Sales Exchange storeroom shall have two (2) locking bars on door. Other divisional bulkheads shall be of 1/4" steel construction to a point 42" above the deck and heavy expanded metal from the top of steel plate to the deckhead.

In the medical storeroom and stewards' storerooms, furnish and install shelves and new portable, metal battens and sockets spaced on 12" centers, as shown on the drawing. Shelving shall be of #16 USSG galvanized sheet steel, 3'-0" deep, with 3" x 3" x 1/4" steel angle or tee supports spaced on 3'-0" centers. Shelves shall have a 1" lip and shall be fitted with 1" x 1" x 1/8" removable battens, and shall be 24" apart.

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110. STORES AREAS, FRs. 146-166 (CONT'D)

In the Sales Exchange Storeroom, furnish and install shelving and new portable battens and sockets as shown on the contract guidance plan. Type of shelving and battens shall be of same construction as for the medical and stewards' storeroom, except that shelves shall be 2'-6" deep.

In the Engineers' Storerooms, furnish and install shelving, bins, and new portable battens and sockets as shown on the contract guidance plan. Install type "D-3" bins at frs. 158, 160 and 164, and type "B" bins at frs. 163 and 166. Types "D-3" and "B" bins shall be of steel construction generally in accordance with BuShips General Type Plan S3000-860159. Vertical supports shall be spaced on 3'-0" centers. Lightening and adjusting holes shall be omitted. Lower section of shelving in way of manhole, fr. 166, shall be omitted. Shelving, frs. 152-162, shall be constructed of 5.1 lb. steel plate, 2'-9" deep, 24" between shelves, with the bottom shelf 18" above deck. Fronts of shelves shall be fitted with 1-1/2" x 1-1/2" x 3/16" angles, flanged up and portable horizontal battens of 1" x 1" x 1/8" angles. Vertical supports shall be 3" x 3" x 1/4" angles, spaced on 3'-0" centers.

New wood gratings, constructed in accordance with requirements of the U. S. Public Health Service, and finished with two (2) coats of orange shellac, shall be installed in Stewards' Storerooms, Sales Exchange and Medical Storerooms, and blanked and troop berth stowage area.

111. LOCKED CARGO AREA

Furnish and install a new 1/4" steel plate, 42" wide by 7'-0" high, access door in bulkhead 202, starboard of centerline, as shown on drawings. The new door shall be fitted with two (2) heavy locking bars and padlocks. Suitable locking devices shall also be provided on escape trunk, at fr. 209, to prevent access to the locked cargo area.

112. DIESEL FIRE PUMP ROOM, FRs. 186-192

Provide and install an 18" wide vertical ladder leading from 2nd Platform to 1st Platform at portside, at frame 186, in location as shown on the contract guidance plan. At 1st Platform level provide an 18" x 24" hinged flush manhole in locations as shown.

113. HOLD LEVEL, STEWARD'S STOREROOMS, FRs. 62-82

Furnish and install a new 1/4" steel plate athwartship bulkhead at frame 67, and fore and aft bulkheads between frs. 67 and 71, approximately 12'-6" starboard of centerline, and between frs. 62 and 67, centerline, to form new storerooms as shown on drawing. New 42" wide by 7'-0" high steel plate doors shall be installed for access to these storerooms. The doors shall be fitted with heavy hasps and padlocks. The steel platform and wood gratings, approximately 16" above the tank top in these areas shall be extended between frs. 66 and 67. The wood ceiling in way of the hatch landing shall be modified as required.

The existing fore and aft bulkhead between frs. 78 and 82, 2'-0" starboard of centerline, shall be removed and a new 1/4" steel plate bulkhead erected between frs. 77 and 82, approximately 12'-6" starboard of centerline. The existing door to the stewards' storeroom port side, at frame 81, shall be removed and the opening blanked. New 42" wide by 7'-0" high, 1/4" steel plate doors, complete with heavy hasps and padlocks shall be installed to provide access to the storerooms at frame 79, port and starboard.

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113. HOLD LEVEL, STEWARD'S STOREROOMS, FRs. 62-82, (CONT'D)

Furnish and install a new athwartship bulkhead at frame 79-3/4, and a fore and aft bulkhead between frs. 79-3/4 and 82, approximately 2'-0", port of centerline, to form new storeroom spaces. Bulkhead shall be 1/4" steel plate construction from the deck to a point 42" above the grating and heavy expanded metal from the top of the steel plate to the deckhead. A 42" wide door of construction similar to bulkheading shall be provided for each storeroom. The doors shall be fitted with a heavy hasp and padlock. A 4'-0" wide by 7'-0" high access opening shall be provided in the athwartship bulkhead at frame 77, approximately 8'-0" starboard of centerline. Bottom of opening shall be at grating level. Edges of access opening shall be covered with split pipe stiffener.

Steel platforms and gratings in the storeroom areas, frs. 62 to 82, shall be modified as required to suit the new arrangement of the area. Furnish and install portable, vertical steel battens, complete with sockets, spaced on 12" centers, as shown on the drawing. A 9" high step shall be fitted in way of storeroom doors, as shown on the drawing. Step shall be 10.2# diamond plate.

114. HOLD LEVEL, DRAIN IN NEW LADDER ENCLOSURE, FRs. 86-87, PORT

Existing deck drain located in new ladder enclosure, frs. 86-87, port, shall be relocated to the loading space, frs. 85-86, port, adjacent to refrigeration box bulkhead.

115. RELOCATED LADDERS

In addition to the exterior access ladders, frs. 91-93 port and starboard, which are to be relocated in accordance with requirements in "Rearrangement of Lifeboats" item of specifications, the following access ladders shall be relocated as shown on the contract guidance plans and as specified herein.

a. Exterior access ladder from Upper to Main Decks, frs. 159-161, port and starboard, to be relocated to frs. 158-159 port and starboard. Deck landing Upper Deck, frs. 158-159 $\frac{1}{2}$, shall be extended port and starboard, in way of new ladder locations and deck railings modified and extended, all as shown on plan.

b. Interior access ladder from Main to Second Deck, frs. 34 $\frac{1}{2}$ -36 centerline, to be relocated 18" to port. Booby hatch on Main Deck shall be similarly relocated.

c. Interior access ladders from Main to Second deck, frs. 159 $\frac{1}{2}$ -162 starboard to be relocated 18" outboard. The deckhouse bulkheads, deckhead and weather entrance doors in way of relocated ladders shall be altered and extended as shown on plan.

d. Interior access ladder from Main to Second Deck, frs. 210-215 starboard, to be relocated 12" aft.

e. Interior access ladder from Second deck to Third Deck, frs. 34 $\frac{1}{2}$ -36 centerline, to be moved 24" to port.

f. Interior access ladders from Second Deck to Third Deck, frs. 44 $\frac{1}{2}$ -45 $\frac{1}{2}$, port and starboard, to be relocated 18" inboard and as far aft as possible to stairwell enclosure bulkhead.

g. Interior access ladders from Second Deck to Third Deck, frs. 54 $\frac{1}{2}$ -55 $\frac{1}{2}$ port and starboard, to be relocated 18" inboard and as far forward as possible to stairwell enclosure bulkhead.

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115. RELOCATED LADDERS (CONT'D)

- h. Interior access ladders from Second deck to Third deck, frs. 66 $\frac{1}{2}$ -67 $\frac{1}{2}$ port and starboard, to be relocated 18" inboard.
- i. Interior access aldder from second deck to third deck, frs. 75 $\frac{1}{2}$ -76 $\frac{1}{2}$ port, to be relocated 24" inboard.
- j. Interior access ladders from second deck to third deck, frs. 159 $\frac{1}{2}$ -162 starboard, to be relocated 18" outboard.
- k. Interior access ladders from Second Deck to Third Deck, frs. 174 $\frac{1}{2}$ -175 $\frac{1}{2}$ port and starboard, to be relocated 12" inboard.
- l. Interior access ladders from Second Deck to Third Deck, frs. 180 $\frac{1}{2}$ -181 $\frac{1}{2}$ port and starboard, to be relocated 12" inboard.
- m. Interior access ladder from Second deck to Third Deck, frs. 210-215, to be relocated 12" aft.
- n. Interior access ladder from Third Deck to First Platform, frs. 44 $\frac{1}{2}$ -45 $\frac{1}{2}$ starboard, to be relocated 18" inboard and as far aft as possible to stairwell enclosure bulkhead.
- o. Interior access ladder from Third Deck to First Platform, frs. 54 $\frac{1}{2}$ -55 $\frac{1}{2}$ port, to be relocated 18" inboard and as far forward as possible to stairwell enclosure bulkhead.
- p. Interior access ladder from Third Deck to First Platform, frs. 66 $\frac{1}{2}$ -67 $\frac{1}{2}$ port, to be relocated 18" inboard.
- q. Interior access ladders from Third Deck to First Platform, frs. 159 $\frac{1}{2}$ -162 starboard to be relocated 18" outboard.
- r. Interior access ladders from Third Deck to First Platform, frs. 174 $\frac{1}{2}$ -175 $\frac{1}{2}$ starboard and 180 $\frac{1}{2}$ -181 $\frac{1}{2}$ port, to be relocated 12" inboard.

In connection with all of the relocated ladders indicated above, the deck cut coaming, and railings shall be suitably modified, altered and repaired in way of old and new ladder locations. Deck structure in way of new ladder locations shall be modified and new doublers, headers, and girders installed where required by American Bureau of Shipping. All wiring, piping, etc., in way of new ladder locations shall be properly relocated.

116. NEW LADDERS

In addition to the new exterior access ladders, Main Deck, frs. 132-134 port and starboard, which are to be installed in accordance with requirements in "Rearrangement of Lifeboats" item of specifications, the following new access ladders shall be furnished and installed as shown on contract guidance plans and as specified herein.

- a. A 36" wide tread ladder from Second Deck to Third Deck, frs. 99 $\frac{1}{2}$ -101, starboard.
- b. A 24" wide tread ladder from Second Deck to Third Deck, frs. 182-183, port.
- c. A 30" wide tread ladder from Third Deck to First Platform, frs. 30-33, starboard of centerline.

116. NEW LADDERS (CONT'D)

- d. A 30" wide tread ladder from Third Deck to First Platform, frs. 75-76 $\frac{1}{2}$, port.
- e. A 36" wide tread ladder from Third Deck to First Platform, frs. 99 $\frac{1}{2}$ -101, starboard. Remove storeroom bulkheads shelves and fittings, Third Deck, frs. 97-101, starboard, and modify galley enclosure bulkheads in way of ladder, as shown on plan. Provide new steel plate entrance door to galley, frs. 97-98 starboard. Relocate refrigerator including foundations, wiring, piping, etc., from present location aft to new stairwell bulkhead, as shown on plan.
- f. A 24" wide tread ladder from Third Deck to First Platform, frs. 146-147, port.
- g. A 24" wide tread ladder from Third Deck to First Platform, frs. 182-183, port.
- h. A 30" wide tread ladder from First Platform to Second Platform, frs. 29 $\frac{1}{2}$ -32 center line.
- i. A 30" wide tread ladder from First Platform to Second Platform, frs. 161-162, port.
- j. A 30" wide tread ladder from First Platform to Hold, frs. 29 $\frac{1}{2}$ -33, starboard of centerline.

New ladders indicated above shall be constructed of steel with 15.3# flanged diamond plate treads and channel or equivalent stringers. Ladders shall have a slope of 52°, except for ladders between First Platform and Hold level at frs. 29 $\frac{1}{2}$ -33, which shall have a slope of 60°.

New ladder installations shall be complete including required deck cuts, coamings, handrails and two (2) course pipe guard rails at open sides and backs of ladders. Ladder openings shall have well rounded corners and all required girders, headers, and doublers in way of openings shall be provided. Piping, electric cables, fixtures, etc., in way of new ladder openings shall be properly relocated.

Stairwell enclosures around ladders shall be provided in accordance with requirements of "Fire Control" item of specifications.

117. STORES HATCH, FRs. 30-32, PORT OF CENTERLINE

A new stores hatch shall be provided between Main Deck level and Hold level, frs. 30-32, as shown on contract guidance plans. The hatch shall be trunked between Main Deck and First Platform of 4'-0" x 4'-6" size. The hatch opening at Second Deck level shall be 4'-0" x 4'-0". Hatch trunk plating shall be 10.2# plate with split pipe stiffeners. At Second Platform level a hinged dogged steel cover shall be fitted over hatch opening. Cover shall be hinged aft and fitted with heavy handle and holdback device. Hatch openings at each deck level shall be properly reinforced and corners rounded in accordance with American Bureau of Shipping requirements. Existing structure in way of hatch openings shall be modified and all cable, piping, fixtures, etc., relocated as required.

118. PLATING OF NO. 5 HATCH

No. 5 hatch shall be reduced in length at Third Deck and First Platform levels as shown on contract guidance plans, and in accordance with the following. Clear hatch size shall be 4'-9" x 16'-0". The new plating and supporting beams shall be welded watertight and shall be of scantlings in accordance with the requirements of American Bureau of Shipping. Existing strongbacks, strongback sockets, portable ladder to Second Platform, and hatch boards shall be removed. The after portion of the existing hatch shall be plated over at the respective deck levels. Existing coamings shall be removed and modified, and new after transverse hatch end, hatch board landings and coaming shall be provided in way of plated section of hatch. Existing ladders on portable hatch boards shall be permanently installed on and in new deck plating as shown on contract guidance plans. New metal lumber hatch boards, in accordance with fire control requirements, shall be provided for new hatch opening

118. PLATING OF NO. 5 HATCH (CONT'D)

at each deck level. A portable chain rail with flush deck sockets, shall be provided at each hatch opening, port and starboard. A wire rope life line, complete with staples and turnbuckle, shall be installed on forward and aft transverse bulkheads in way of hatch opening.

119. PLATING OF NO. 3 HATCH

No. 3 Hatch shall be reduced in length at Upper, Main, 2nd, 3rd Decks and 1st Platform levels as shown on contract guidance plans and in accordance with the following. Clear hatch size at all levels shall be 12'-6" x 25'-0". The new plating and supporting beams shall be welded watertight and shall be of scantlings in accordance with the requirements of the American Bureau of Shipping.

At Upper Deck level, remove the 38" wide pontoon cover. Plate over after portion of hatch at level of adjacent plated section of hatch. Weld 1/2" flat bars at one (1) side of each of the existing 49" pontoon covers making width of each cover 49 1/2". The three (3) 49 1/2" covers shall be utilized at this level for the 12'-6" x 25'-0" hatch opening. Existing coaming and cleats shall be removed and new after transverse hatch end, coaming, cover landings, and cleats provided in way of plated section of hatch. Two (2) new #4 waterproof canvas covers shall be provided for hatch.

At Main deck level, remove all hatch boards and strongbacks and plate over the after end of hatch at the deck level to same requirements as specified above for Upper Deck. No hatch covers or strongbacks shall be installed at this level.

At 2nd and 3rd deck levels, remove all hatch boards, strongback sockets, and strongbacks, and plate over the forward and after ends of hatch at the deck level to same requirements as specified above for Upper Deck. Two (2) of the existing strongbacks shall be reinstalled, spaced so as to utilize two (2) rows of the existing metal lumber hatch boards with one (1) row of new metal lumber hatch boards of length to give the clear hatch length specified. Modify chain railings for new hatch size port and starboard. Existing ladders on portable hatch boards shall be permanently installed on and in new deck plating, as shown on plan.

At First Platform level hatch shall be modified as specified above for 2nd and 3rd deck levels except that all the hatch boards shall be new, in accordance with fire control requirements.

120. LIFE FLOATS

Remove the existing life floats overhanging the ship's side together with all supporting brackets, cables, bridles, etc.

Install additional one hundred sixteen (116) Government-furnished 25-person capacity life floats.

The lifefloats shall be stowed on deck in approved floataway type chocks and fitted with automatic release. All lifefloats stowed on deck shall have a suitable separator fitted between floats and/or decks. Type of separator shall be approved by the Navy Inspector, and shall be furnished and installed by the Contractor.

The water, provisions and abandon ship equipment will be furnished by the U. S. Government, and the Contractor shall collate this equipment and install same in the lifefloats.

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