

U.S. NAVAL BASE, PEARL HARBOR, DRY DOCK NO. 4, GALLEY
(U.S. Naval Base, Pearl Harbor, Naval Shipyard, Facility No. 388)
Third Street at intersection of Avenue I
Pearl Harbor
Honolulu County
Hawaii

HABS HI-474

HI-474

HABS

HI-474

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN BUILDINGS SURVEY
PACIFIC GREAT BASIN SUPPORT OFFICE

National Park Service
U.S. Department of the Interior
1111 Jackson Street
Oakland, CA 94607

HISTORIC AMERICAN BUILDINGS SURVEY

U.S. NAVAL BASE, PEARL HARBOR, DRY DOCK NO. 4, GALLEY
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)

HABS
HI-474
HABS No. HI-474
(page 1)

Location: Third Street & the Intersection of Avenue I
Pearl Harbor Naval Base
City and County of Honolulu, Hawaii

This building falls within the UTM coordinates of the Pearl Harbor, Naval Shipyard as defined in the location section of the overview report HABS No. HI-483. This building's UTM coordinates are: 04.607000.2361360.

Significance: Facility No. 388 is located within the Pearl Harbor National Historic Landmark. It was constructed in 1943 in association with the expansion of the Navy Shipyard during World War II. It is more notably grouped with former adjacent mess hall, Facility 388A, nearby latrine Facility 387 and Dry Dock No.4 (Facility S782), which were all built between the years 1941-1944. It originally functioned as a galley for the personnel working at the dry dock and the western part of the shipyard.

Description: Facility 388 is a simple structure with streamlined Moderne detailing. It is a one-story, reinforced concrete-framed building with a symmetrical gable roof. The floor slab is 4"-thick and reinforced with 6" x 6" wire mesh. It extends 6'-0" beyond the building shell to create a continuous walkway around the perimeter. Concrete footings distribute the load and measure 2'-6" x 2'-8" x 1'-3" at the corners, 2'-6" x 3'-3" x 1'-3" at the sidewalls and 2'-0" x 2'-2" x 1'-3" at the end walls. The original dimensions of the building were 134'-0" in length and 32'-0" in width. The length is divided into eleven 12'-0" bays, and the width into a central 6'-4" bay flanked by an 8'-6" bay to each side. The building is approximately 15' tall at the roof ridge and the entire floor area is 4,288 square feet.

Prestressed reinforced concrete t-section roof beams span the width of the building and support the 4"-thick concrete roof slab. It is slightly pitched with 4'-6" overhanging eaves and a stepped edge detail. Lower concrete canopies, located just above the exterior doorframes, extend 3'-6" from the vertical wall plane to shade the entry doors. There is a ladder on the west side of the building made of 3/4" diameter rod rungs spaced 12" on-center and set into a concrete pilaster. It leads to a 2'-6" square opening cut in the overhanging eave above providing access to the roof. There is an open lean-to addition at the southern half of the west side of the building. It is of steel post and

U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)
HABS No. HI-474 (Page 2)

beam construction with a traditional corrugated metal shed roof. A smaller enclosed lean-to is at the northwest corner. It is a wood-frame structure built on a concrete slab with plywood walls and a corrugated metal roof. There is expanded metal mesh at the gable ends and a private entry door. It is uncertain when these modifications were made.

Concrete pilasters accentuate structural bays at the exterior. They are 2'-0" wide at the sides of the building and spaced at equal 10'-0" intervals. At the end walls of Facility 388 the pilasters are 2'-2" in width and are spaced 8'-6" apart from the corner of the building to the adjacent pilaster. Each pilaster is scored near the base and top with a v-joint detail creating the image of continuous horizontal bands about the perimeter. These bands are obstructed by the vertical juxtaposition of window walls between each pilaster. The windows span the width of each structural bay and are supported by a 4'-2" high by 8"-thick concrete wall. The fenestration pattern consists of a triplet of wood-framed double-hung wood sash windows with a hopper transom window above each. There are four sets of 2'-6" wide units at the ends and sixteen sets of 3'-0" wide units at the sides of the building. Each double-hung window is 5'-2" high with a 3'-2" high transom above. In keeping with this same fenestration pattern, triple hopper windows are installed above the entry doors at the east and west sides of the building. There is one hopper above the door at the north end and two hopper units above the door at the south end of Facility 388. Wood-framed metal mesh screens of equal proportions to the window units are on the exterior. As a result of refrigerator and dry storage locations on the interior of the building, there are two bays on the west side of the facility that have full height 8"-thick concrete walls and one bay on the east with concrete walls and a single row of triple hopper windows near the eaves. Original 1944 drawings indicate that only double-hung windows were to be installed with just wood-framed screened openings above. It is uncertain if the inclusion of hopper windows was a change during construction or if they were added at a later date.

Drawings dating back to 1943 show that there were 3'-0" x 7'-0" wood-framed double doors with a fixed metal screen above a wood panel at the east, west, and south entrances and a single 3'-6" x 7'-0" door of the same configuration at the north entrance. Historic photos show that sometime prior to 1980 these doors were removed and replaced with flush wood doors. The northern-most entry doors on the east wall were removed; two wood-framed jalousie windows were installed in their place and the remainder of the void was filled in with concrete. Double doors were installed in 1944 for access between Facility 388 and a mess hall and passageway (Fac. 388A) addition built in the latter half of 1944 at the west side of the original building. In 1975 Facility 388A was demolished but the double doors were kept. These doors do not have a canopy above because they were not part of the original structure.

U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)
HABS No. HI-474 (Page 3)

The open floor plan of the south half of Facility 388 originally was broken down into areas for the bakery, butcher, salad preparation, vegetable preparation, and general cooking stations to comply with the necessary functions of the galley. It was complete with eight griddles, two fry kettles, a roast oven, a bake oven, seven steam kettles, three vegetable steamers, two coffee urns, three mixers, a meat slicer, a meat bone and fish cutter, meat chopper, meat block, food cutter, vegetable peeler, bread slicer, three food trucks, and two pie rack trucks. There were also four cooks' tables greater than 10'-0" in length, sinks of 20 gauge sheet metal, and two large hoods; one over the griddles, fry kettles, and ovens, and the other over the steam kettles, vegetable steamers, and coffee urns. The north half of the space was bisected by a central corridor leading to the north entry door. A dry storage room (with a private entrance), gear room, and an office with a bathroom were to the east of the corridor. To the west were walk-in refrigerators, a heater and compressor room (with private entrance), and a bathroom. Interior walls typically started from 4"-high x 5"-wide concrete curbs (12"-high at the butcher area and dry storage room) with courses of 4" concrete tiles (commonly known today as concrete block) and ½" cement plaster finish. All interior wall surfaces were to be painted with one coat of water repellent, cement-water paint. Interior doors were all wood-framed two-panel doors, of similar style to those on the exterior. The major exception was at the refrigerator units. Here the floor slab was depressed 7-½" and 5" of canec and 3" of concrete were layered on top of the 4" concrete slab. The exterior walls of the refrigerator were of typical construction: 4" concrete curb, 4" concrete tiles and plaster finish. The interior was lined with 7"-thick canec at the walls and ceiling and finished with 1/8"-thick emulsified asphalt mixed with fine sand. To the inside of this was a 6" concrete curb with a grid of horizontal and vertical 2" x 4" wood studs spaced 16" on-center. The canec was used as a source for heat insulation in the refrigeration system. It was a readily available and fairly cheap material that was commonly used during World War II. It temporarily replaced cork, the standard source for insulation before and after the war.

Sometime after 1967 when the galley became inactive, the function of the building changed to a warehouse and later to its current use as a welding equipment repair shop. The galley equipment, refrigerator, and heater and compressor room were no longer needed and therefore removed from the interior. The gear room and adjacent bathroom were also taken out and the dry storage and office became one space. The areas where the floor slab was originally depressed have now been filled with concrete to make a flush floor surface. Vinyl composition tile has been installed in some parts of the building, flush wood doors have replaced the original two-panel doors, and bathroom and light fixtures have been modernized. With the exception of these changes the interior has remained intact.

U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)
HABS No. HI-474 (Page 4)

Historical Context:

The construction of Dry Dock No. 4 in 1942 was part of the overall expansion of the Shipyard and Pearl Harbor. With this expansion came an increase in both Navy and civilian personnel. To accommodate this increase, plans for a galley (Facility 388) and latrine (Facility 387) in the west end of the Naval Shipyard were developed and the two buildings were erected shortly thereafter.

Navy records have listed the year of construction for Facility 388 as 1944. However, a map of Pearl Harbor dated, January 1, 1944 shows Facility 388 as a completed structure. This information along with the original drawings for this building, dated May 1, 1943, conclude that the structure was actually completed in the latter half of 1943. Drawings were produced by the Fourteenth Naval District, Pearl Harbor, T.H. and were drawn by various persons: Hunter, Malm, Booth, Ceplatts, R. Gonsalves, Arthur Liu, Cook, and R.L.F.

In August of 1944 plans for an adjoining mess hall (Fac. 388A) off the west side of the original building were approved. This Quonset style structure was built later that year and linked to Facility 388 by a wood-framed covered passageway. In the years following the war, as the military began to downsize, the galley and mess hall were no longer needed and they became inactive. Modifications were made to the interior of Facility 388 including the removal of all galley equipment, the refrigerator, and heater and compressor units. The two buildings later were used as warehouse and storage facilities and in 1975 Facility 388A was demolished. Since 1980, two lean-tos have been added on the west side of the building and are still there today. In more recent years the function of Facility 388 has changed from a warehouse to a welding equipment repair shop.

For an overview of the Naval Shipyard see HABS No. HI-483.

Sources:

The original drawings for this building are digitally scanned or are on microfilm at Pacific Division, Naval Facilities Engineering Command (NAVFAC EFD Pacific) Plan Files. Some 1944 drawings of the passageway and mess hall addition (Fac. 388A) are also listed in the NAVFAC EFD Pacific microfilm index, under drawing numbers I-NO4-835 – I-NO4-838.

A copy of the 1947 property record card for Facility 388 was obtained from the Naval Shipyard Facilities files. The Shipyard files also had a photograph of the building taken in 1980.

A few historic photos of this building were found at the National Archives II, Still Photo Collection (RG 71 CA). The Shipyard files also have on record photographs of the building taken in 1963 and 1980.

Bureau of Yards and Docks

1946 "Building the Navy's Bases in World War II, Vol. I and II,"
U.S. Government Printing Office.

U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)
HABS No. HI-474 (Page 5)

Commander, Navy Region Hawaii
2000 Pearl Harbor Naval Complex, Cultural Resources
Management Plan, Pearl Harbor, HI.

Commander, Navy Region Hawaii
2002 Integrated Cultural Resources Management Plan, Pearl
Harbor Naval Complex, Pearl Harbor, HI.

HABS/HAER Documents

var. dates For those resources on the Navy database at the time the
CRMP (Contract No. NB62742-93-D-0502) was prepared,
the HABS/HAER numbers assigned have been included in
the electronic database as an additional field, as noted in
Appendices: Pearl Harbor Naval Complex Cultural
Resources Management Plan, 1998, p. A-6.

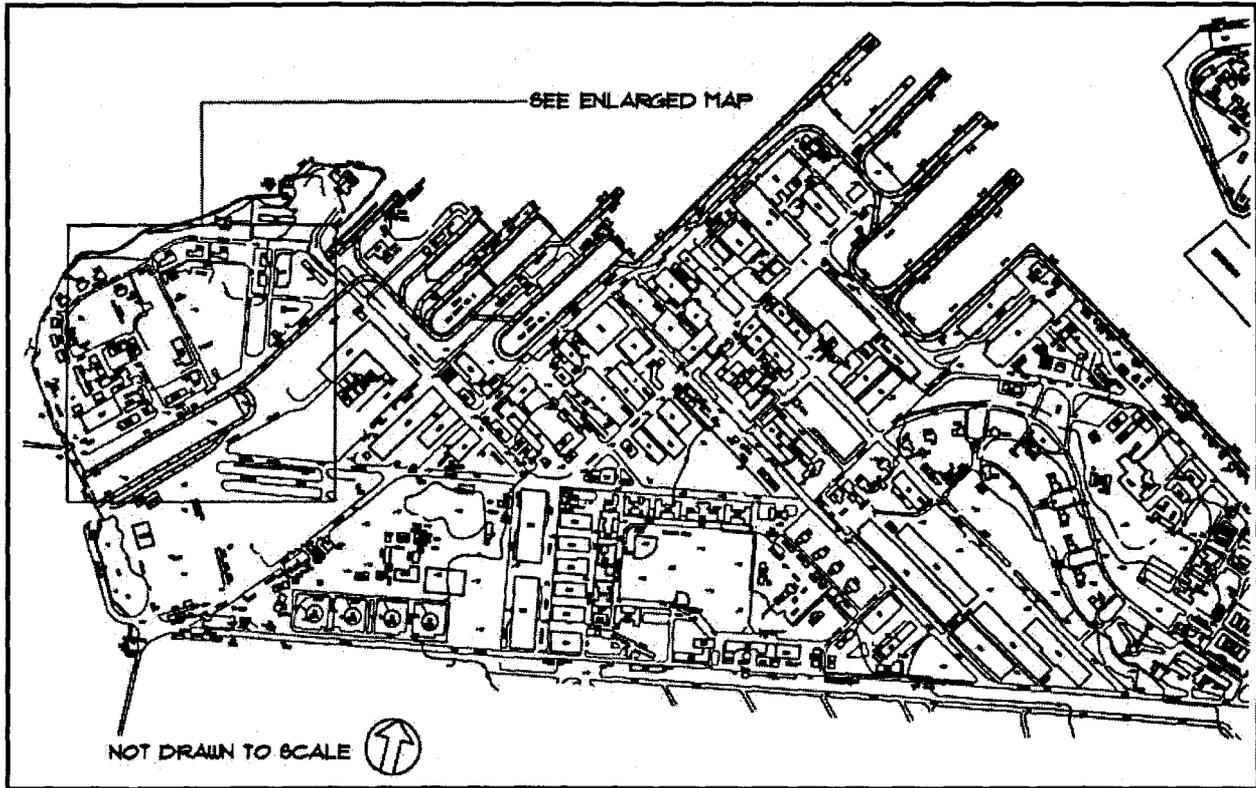
Pearl Harbor Naval Shipyard
1992 Historic Preservation Documentation Program,
photocopied document dated 15DEC92 including
Appendix B Historic Inventory.

Fogel, Frederick
1980 Historic Resources Inventory Form for Bldg #388.
Prepared by Pearl Harbor Naval Shipyard, Facilities
Planning & Programming for State Historic Preservation
Office.

Project Information: Photo documentation and recordation of this facility by the Navy has been done in anticipation of potential demolition of the structure. Photo documentation of historic facilities by the Navy assists in expediting planned undertakings by having the documentation prepared prior to taking actions. Also, photo documentation assists the Navy in gaining more information about its historic facilities to assist in making proactive management decisions. This project is being supervised by Jeffrey Dodge A.I.A., Historic Preservation Specialist at the Pacific Division, Naval Facilities Engineering Command (NAVFAC EFD Pacific). The photographic documentation was undertaken by David Franzen, photographer. Joanmarie N. Orlovski, Architectural Historian, of Mason Architects, Inc. prepared the written documentation. The field work and research was conducted for this report between July 2001 and December 2001.

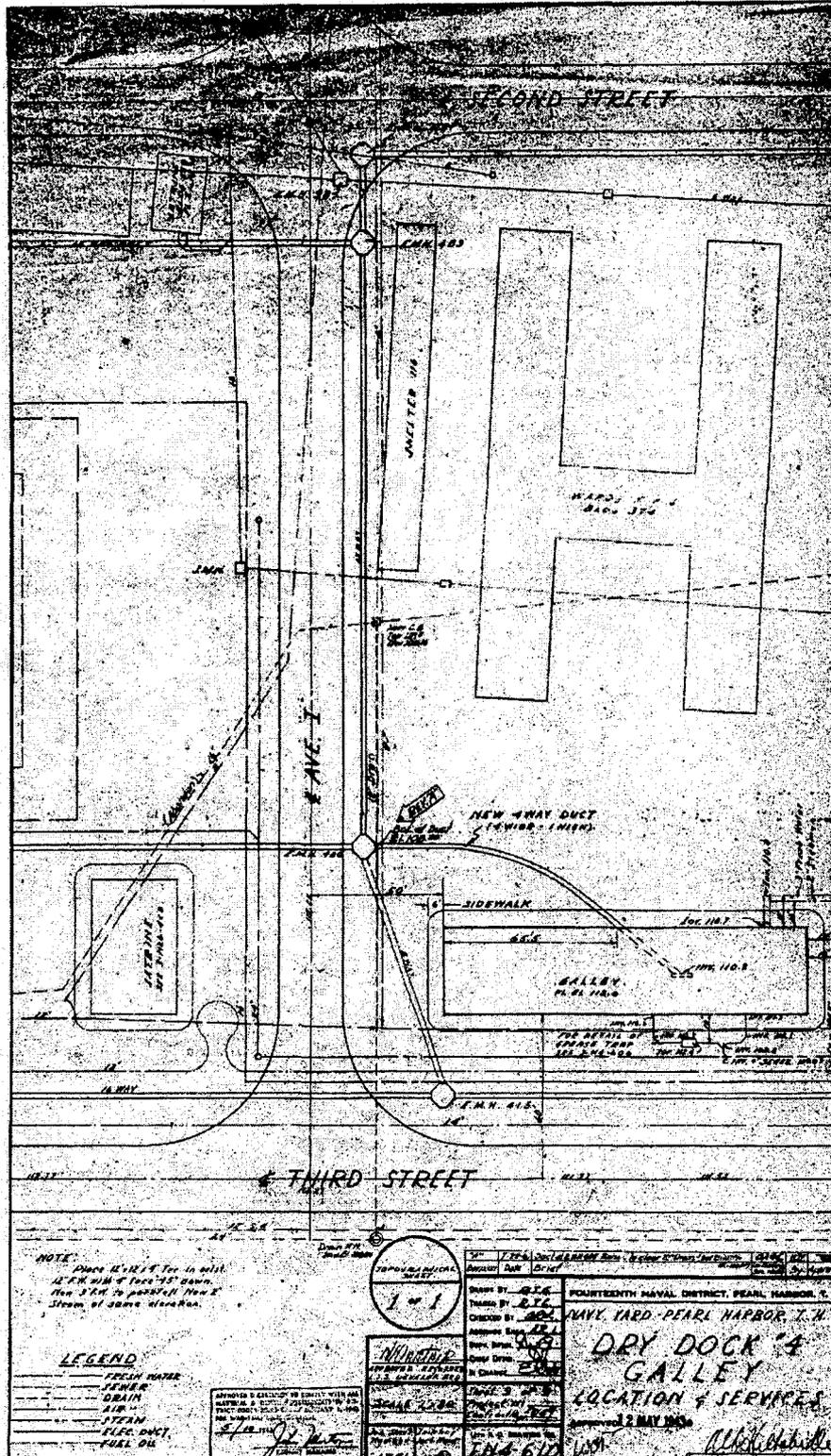
U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)
HABS No. HI-474 (Page 6)

Shipyard Map



**U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
 (U.S. Naval Base, Pearl Harbor, Naval Shipyard)
 (Facility No. 388)
 HABS No. HI-474 (Page 8)**

Location Map – Dry Dock #4 Galley (Drawing No. I-N04-610, dated 5/12/1943) (reduced, not to scale)



NOTE
 Place 12" x 12" Tee in each
 12" R.W.M. & 100" x 15" Down.
 Run 2" R.W. to parallel New 2"
 Steam of same direction.

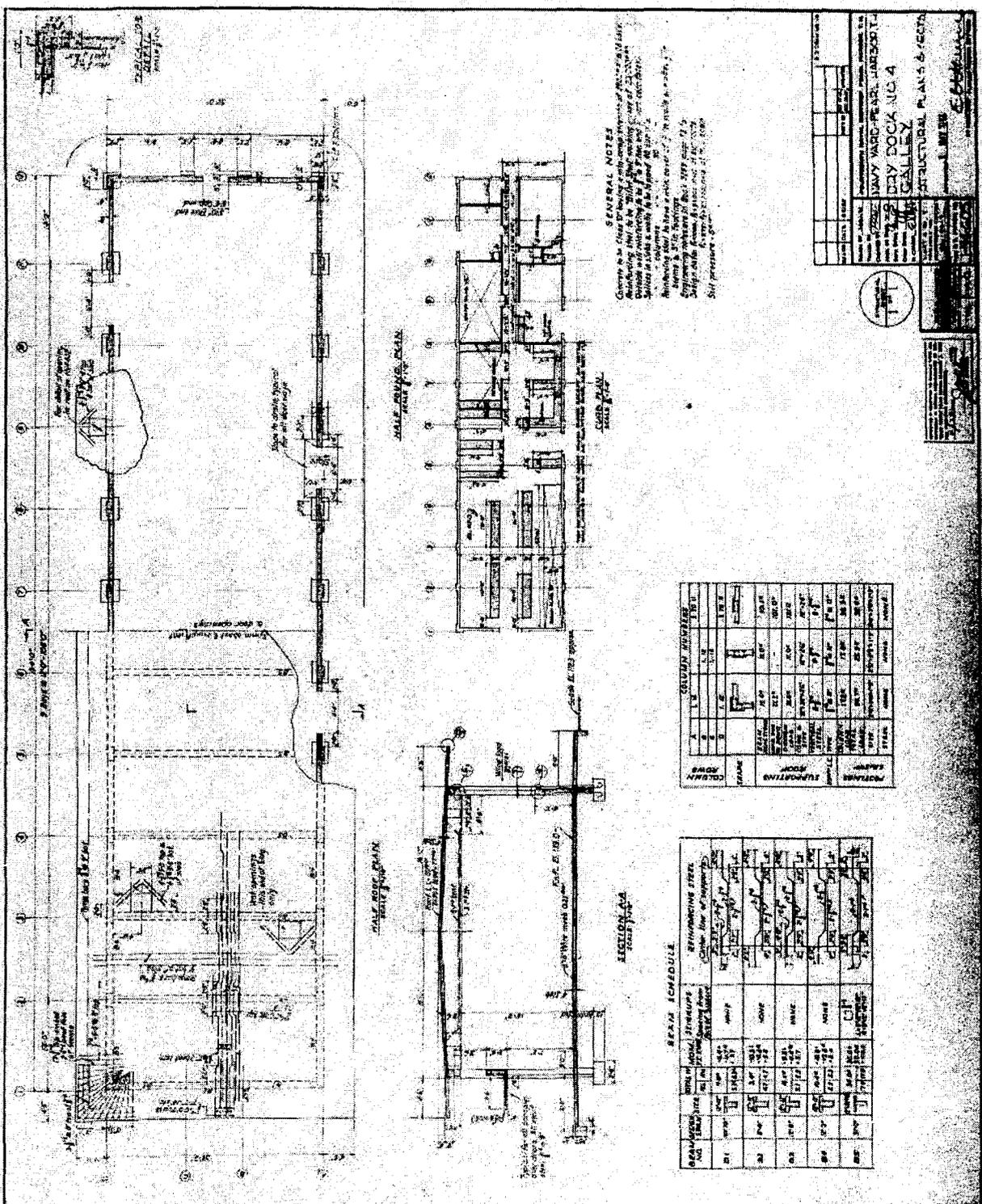
- LEGEND**
- FRESH WATER
 - - - SEWER
 - - - DRAIN
 - - - 2" R.W.
 - - - STEAM
 - - - ELEC. DUCT
 - - - FUEL OIL

1 of 1

DRAWN BY: W. J. C. CHECKED BY: W. J. C. DATE: 5/12/43	POINTSEVENTH NAVAL DISTRICT, PEARL HARBOR, T. H. NAVAL YARD, PEARL HARBOR, T. H. DRY DOCK #4 GALLEY LOCATION & SERVICES APPROVED: 2 MAY 1943 <i>W. J. C.</i>
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U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
 (U.S. Naval Base, Pearl Harbor, Naval Shipyard)
 (Facility No. 388)
 HABS No. HI-474 (Page 9)

Original Structural Plans and Sections (Drawing No. I-N04-605, dated 5/1/1943) (reduced, not to scale)



GENERAL NOTES
 1. General notes on this drawing apply to all drawings of this project.
 2. All dimensions are in feet and inches unless otherwise noted.
 3. All steel is to be A36 unless otherwise noted.
 4. All connections are to be welded unless otherwise noted.
 5. All work is to be in accordance with the specifications of the U.S. Navy.
 6. All work is to be in accordance with the specifications of the U.S. Navy.
 7. All work is to be in accordance with the specifications of the U.S. Navy.
 8. All work is to be in accordance with the specifications of the U.S. Navy.
 9. All work is to be in accordance with the specifications of the U.S. Navy.
 10. All work is to be in accordance with the specifications of the U.S. Navy.

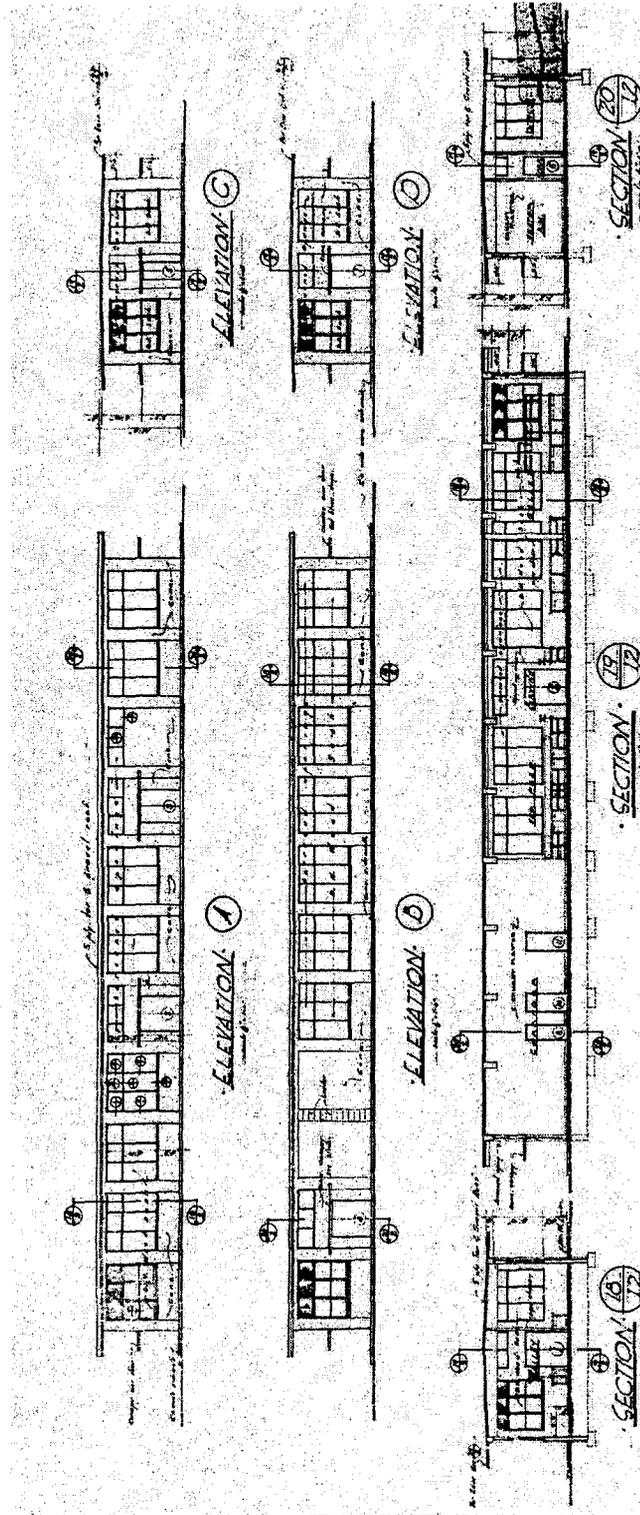
SECTION	MEMBER	SECTION	MEMBER	SECTION	MEMBER
1	12"	1	12"	1	12"
2	12"	2	12"	2	12"
3	12"	3	12"	3	12"
4	12"	4	12"	4	12"
5	12"	5	12"	5	12"
6	12"	6	12"	6	12"
7	12"	7	12"	7	12"
8	12"	8	12"	8	12"
9	12"	9	12"	9	12"
10	12"	10	12"	10	12"

BEAM NO.	SECTION	MEMBER	SECTION	MEMBER	SECTION	MEMBER
1	12"	1	12"	1	12"	1
2	12"	2	12"	2	12"	2
3	12"	3	12"	3	12"	3
4	12"	4	12"	4	12"	4
5	12"	5	12"	5	12"	5
6	12"	6	12"	6	12"	6
7	12"	7	12"	7	12"	7
8	12"	8	12"	8	12"	8
9	12"	9	12"	9	12"	9
10	12"	10	12"	10	12"	10

U.S. NAVAL ARCHITECTURE
 U.S. NAVAL BASE, PEARL HARBOR, HAWAII
 DRY DOCK NO. 4
 GALLEY
 STRUCTURAL PLANS & SECTIONS
 E. M. B. 388

U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)
(Facility No. 388)
HABS No. HI-474 (Page 10)

Original Elevations and Sections (portion of Drawing No. I-N04-603, dated 5/1/1943)
(reduced, not to scale)



U.S. NAVAL BASE, PEARL HARBOR, GALLEY, DRY DOCK NO. 4
 (U.S. Naval Base, Pearl Harbor, Naval Shipyard)
 (Facility No. 388)
 HABS No. HI-474 (Page 11)

Original Floor Plan, Schedules, and Details (Drawing No. I-N04-602, dated 5/1/1943)
 (reduced, not to scale)

