

U.S. NAVAL BASE, PEARL HARBOR, MARINE RAILWAY NO. 1  
ACCESSORIES HOUSE & APPRENTICE WELDING SCHOOL,  
ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard, Facility Nos. 92,  
391 & 392)  
Intersection of Avenue B & Sixth Street  
Pearl Harbor  
Honolulu County  
Hawaii

HABS HI-451

HI-451

HABS

HI-451

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, MARINE RAILWAY ACCESSORIES HOUSE AND APPRENTICE AND WELDING SCHOOL ADDITIONS (U.S. Naval Base, Pearl Harbor, Naval Shipyard) (Facility Nos. 92, 391, and 392)

HABS  
HI-451  
HABS No. HI-451  
(page 1)

**Location:** Intersection of Avenue B and Sixth Street  
Facility 92 fronts Sixth Street and Facilities 391 and 392 are to the south side of Facility 92  
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.

**Significance:** Building 92, 391, and 392 are located within the Pearl Harbor National Historic Landmark. Building 92 is significant for its association with the now-abandoned Marine Railway No. 1, which ran between Piers B-6 and B-7/B-8. All three facilities are significant as some of the smaller shop structures built in the Shipyard during the expansion of the Pearl Harbor Naval Yard facilities in the interwar years.

**Description:** Buildings 92, 391, and 392 are adjacent to one another and are of similar construction and function. All three buildings function as the welding school (even though Building 92 was originally built as a Marine Railway No. 1 Accessories House, its function was changed to the Welding School by 1941) and, as such, the utilitarian shop buildings are adequate to fulfill this function.

**Building 92** is a simple utilitarian metal structure with minimal detailing. The structure was constructed as a rectangular plan, single-story warehouse. It has a steel truss gable roof structure with slightly overhanging eaves, covered with corrugated metal panels. The trusses are supported by steel columns and framing that sit on concrete footings. The building has an overall dimension of 116'-3" (seven bays) x 39'-6" (three bays).

The building has a slab-on-grade foundation with a continuous footing along the perimeter and footings at each interior column (spaced 16'-6" on center). Half of the building sits on loose coral fill and the other half on hard coral rock. The top of the foundation slab is about 6" higher than the ground surface, just a step up when entering the building. The siding above this curb consists of corrugated metal panels. The roof is supported by simple steel trusses that are rivet-

**U.S. NAVAL BASE, PEARL HARBOR, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 2)**

connected to the columns at every bay. Roof purlins are attached to the topside of the trusses, where metal corrugated roofing panels are bolted. Three metal roof ventilators are aligned at intervals along the roof ridge on the east half of the building. Originally, 7 roof ventilators were located at equidistant spans along the roof ridge. Today, however, due to an alteration in 1959, an elevated roof ridge ventilator spans 60 feet to the west half of the building.

The interior layout is simple. When the building was originally built, apparently there were no walls or partitions within the space. The function of storing small accessories probably only required the installation of several rows of shelving on which the accessories would be kept. When the function of the building changed to a welding school, rooms were built and spaces were subdivided to accommodate classroom spaces, shops spaces, and library spaces. The layout today is much like it was in 1941. The main entry is on the west side, where one enters a hallway, and on each side are office spaces. The floor on the west side is laid with painted wood blocks (3"-thick) and a canec ceiling is hung over this section as well. The back two-thirds of the building is dedicated to welding and this section is lined with small cubicles called welding booths where the students can work on individual projects. A wall made with steel studs and metal panels divides the front and back portion of the interior. A portion of this wall was replaced with wood studs and wood panels and a wood door. Fluorescent lights are suspended from the roof trusses.

Door openings are located on all four sides of the structure. Originally, the east, west, and south sides had double sliding metal doors, which were hung from an overhead track attached to the exterior side of the wall. The doors on the east side are still intact. However, the doors on the west side were replaced with flush wood double swinging doors, which is the main entry to the building. A flat projecting overhang with corrugated metal and a wood frame are located above the front entry doors. The north side has a smaller single wood swing door.

Fenestration is symmetrical and strictly utilitarian, with multi-light steel windows and wire safety glass on all four walls. There are two window sizes. The east and west side windows are slightly smaller with a pivot section in the central portion of the window. The north and south sides are larger and are paired between columns. They also have a central pivot. Most of the windows have been painted over and many windows have been altered to hold A/C units. Also, three fans have been installed on the south wall elevation. A wood louvered awning is located over the corner window on the west side.

**Buildings 391 and 392** are simple utilitarian metal structures with minimal detailing. The structures were constructed as semi-permanent, single-story shop structures. They consist of reinforced

**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 3)**

concrete footings and slab-on-grade, steel frame, metal siding, and gable roofs. Both have mesh screen vents under eaves and on gable faces. The roof structures and fenestration of Buildings 391 and 392 are slightly different. Building 391 uses 2 x 6 wood purlins and wood rafters, upon which the corrugated metal is attached. (This may be an alteration). Its fenestration is that of multi-light steel windows with wire safety glass and central pivoting sections. Building 392 uses purlins that are made from steel Ts with small angles on top. Also, the structural framework of Building 392 is distinctive in that both the roof members and columns are made with circular steel pipes. Also, the floor in the shop is composed of steel plates welded together. Building 392 does not have windows; instead, almost half of the top portion of the walls is faced with expanded metal mesh.

**Historical Context:**

Building 92 was originally constructed as a Marine Railway Accessories storehouse for the Navy Yard, Pearl Harbor. The drawings were prepared by the Bureau of Yards and Docks. These original drawings are dated February 12, 1925 and construction was completed in 1926. Facility 92A was built in 1943 as a lean-to annex. It was constructed primarily of wood and was added to the north side of the building. This has since been removed (c. 1995).

Facility 92 is located near the tracks for the Marine Railway, which is adjacent to Pier No.1. By 1941, its use had been converted to a Welding School, and two additional structures were built adjacent to it to serve the needs of the school. At the time, the Marine Railway was still in use, so that it would appear that the need for an accessory storage use would still be there. Whether or not a new building was found, or another building's use was consolidated is not certain.

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

**Sources:**

The original drawings for this building are on digitally scanned images or microfilm at Pacific Division, Naval Facilities Engineering Command (NAVFAC EFD Pacific) Plan Files.

Historic photos can be found at the National Archives II Number RG71CA Box 165 Folder "One-Story Storehouse, Bldg 68."

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

**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 4)**

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.

Nakahara, Kenneth.

1980 "Historical Resources Inventory Form, Welding School, Pearl Harbor Naval Shipyard, Facilities Planning and Programming. Honolulu, Hawaii. Located at the State Historic Preservation Division Pearl Harbor Inventory Forms Files.

Pearl Harbor Naval Shipyard

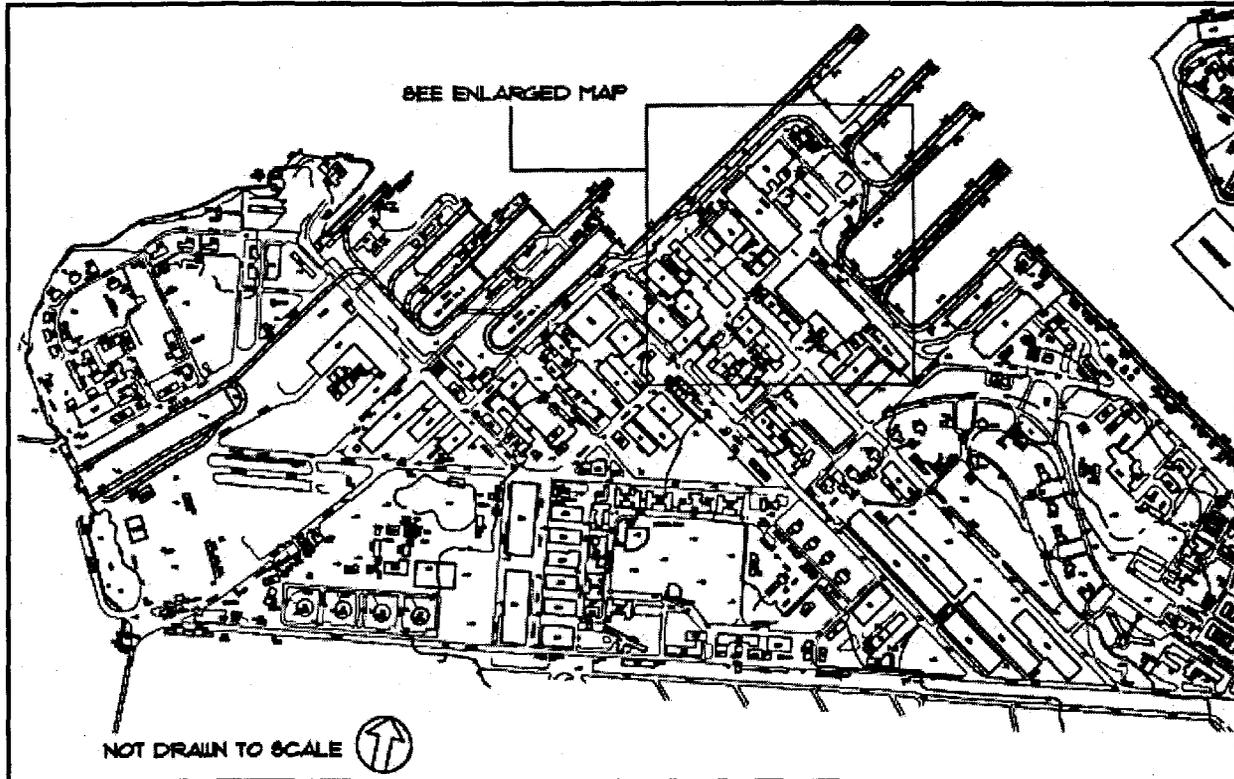
1992 Historic Preservation Documentation Program, photocopied document dated 15DEC92 including Appendix B Historic Inventory.

**Project Information:**

Photo documentation and recordation of this facility by the Navy has been done in anticipation of future alterations or 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. Lorraine M. Palumbo, Ph.D. 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.

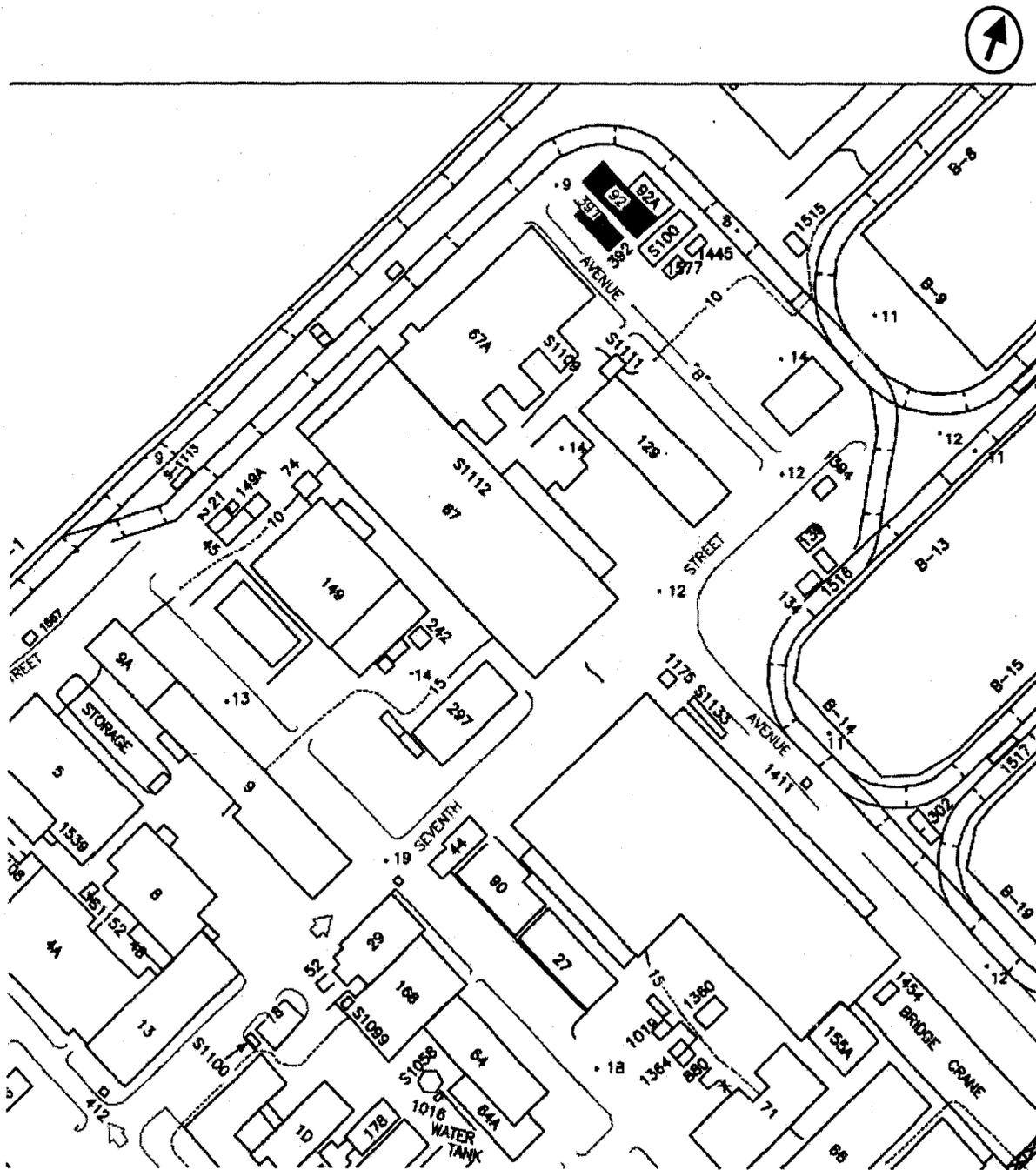
U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 5)

Shipyard Map



U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 6)

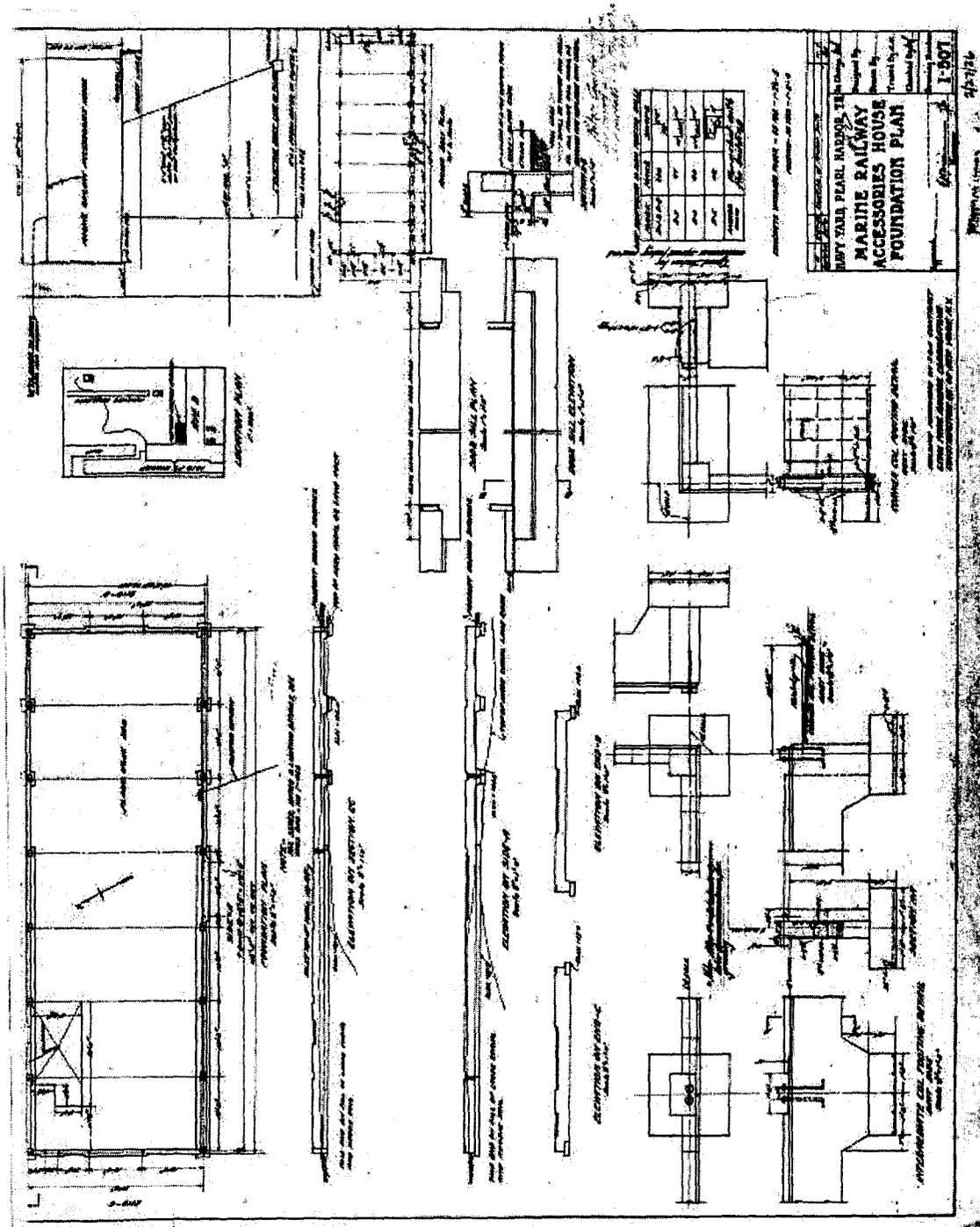
Enlarged Area Map (reduced, not to scale)





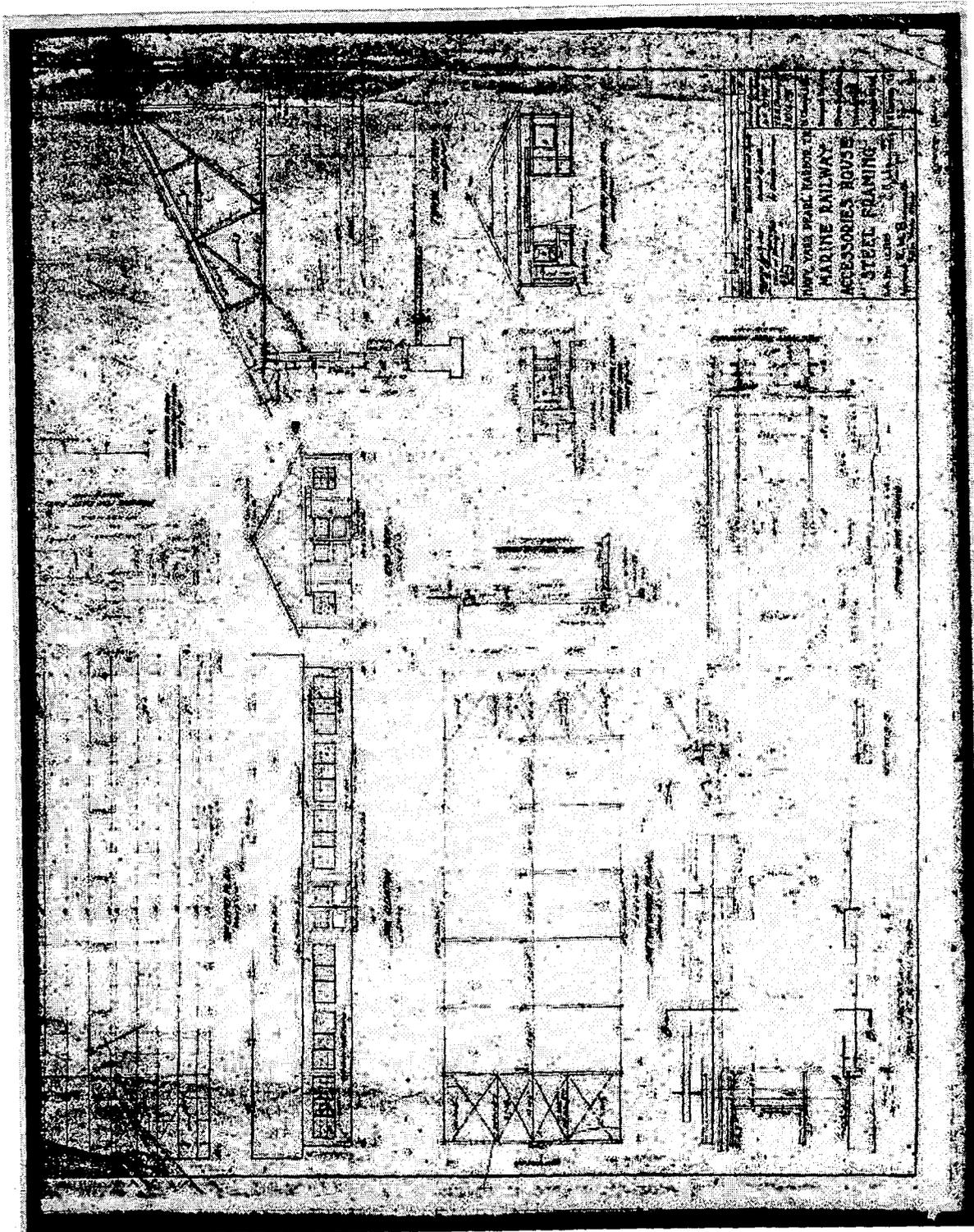
**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
 APPRENTICE AND WELDING SCHOOL ADDITIONS**  
 (U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
 (Facility Nos. 92, 391, and 392)  
 HABS No. HI-451 (Page 8)

**Facility 92, Marine Railway Accessories House, Foundation Plan**  
 (Drawing No. I-507, dated 2/27/1926) (reduced, not to scale)



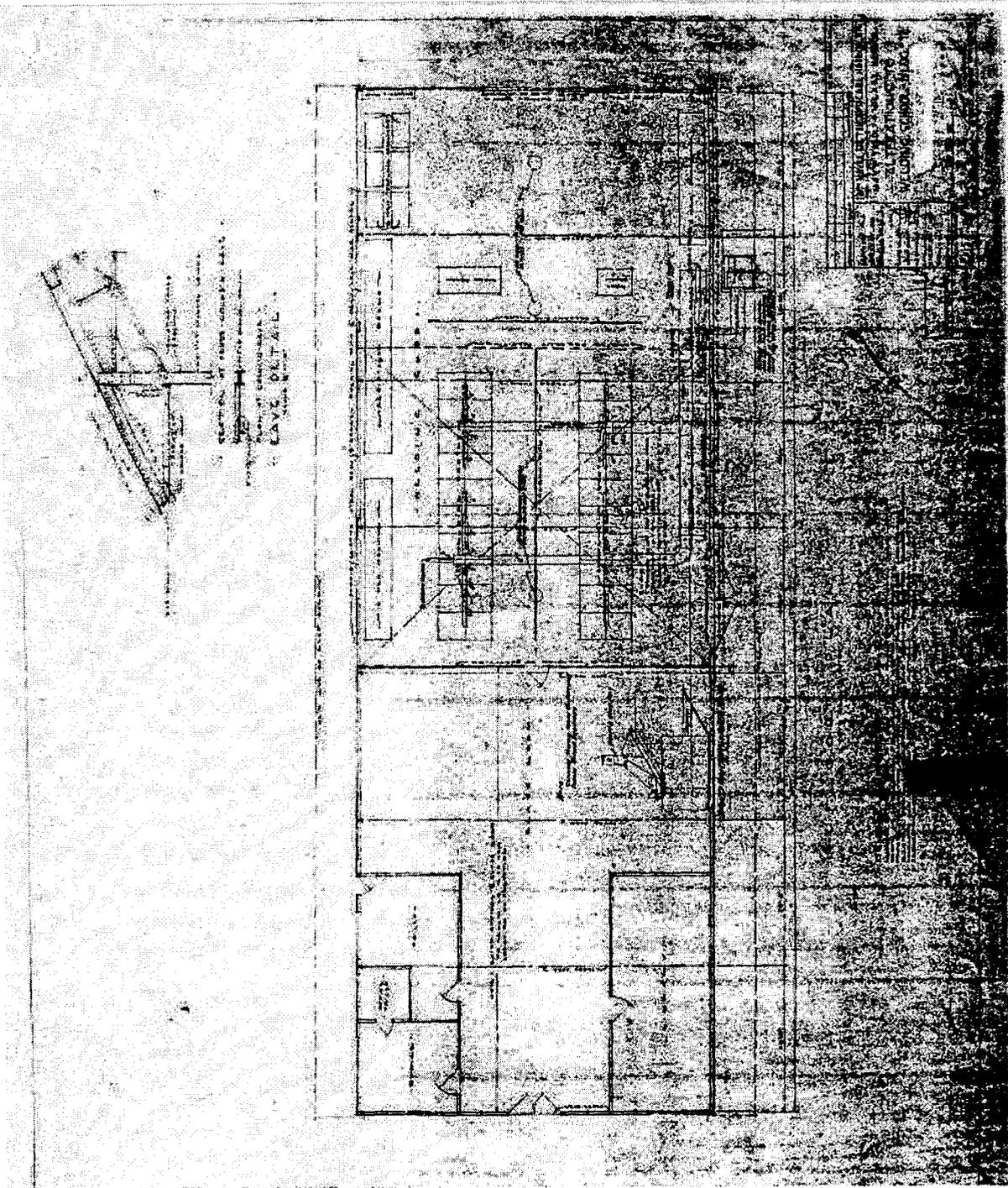
**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 9)**

**Facility 92, Marine Railway Accessories House, Steel Framing  
(Drawing No. 101425, dated March 12, 1925) (reduced, not to scale)**



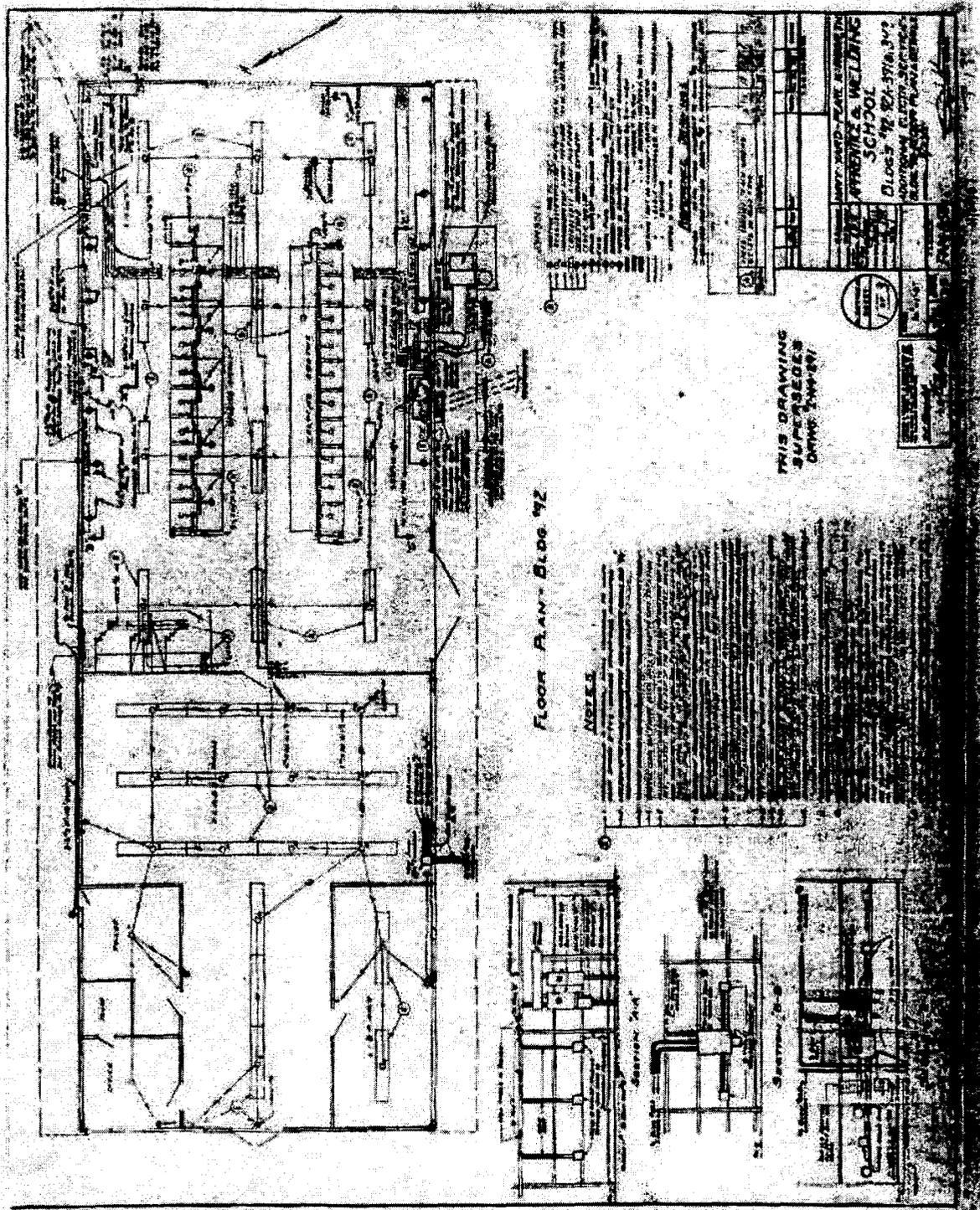
**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 10)**

**Facility 92, Alterations to Welding School, Floor Plan  
(Drawing No. I-N4-290, dated 12/27/1941) (reduced, not to scale)**



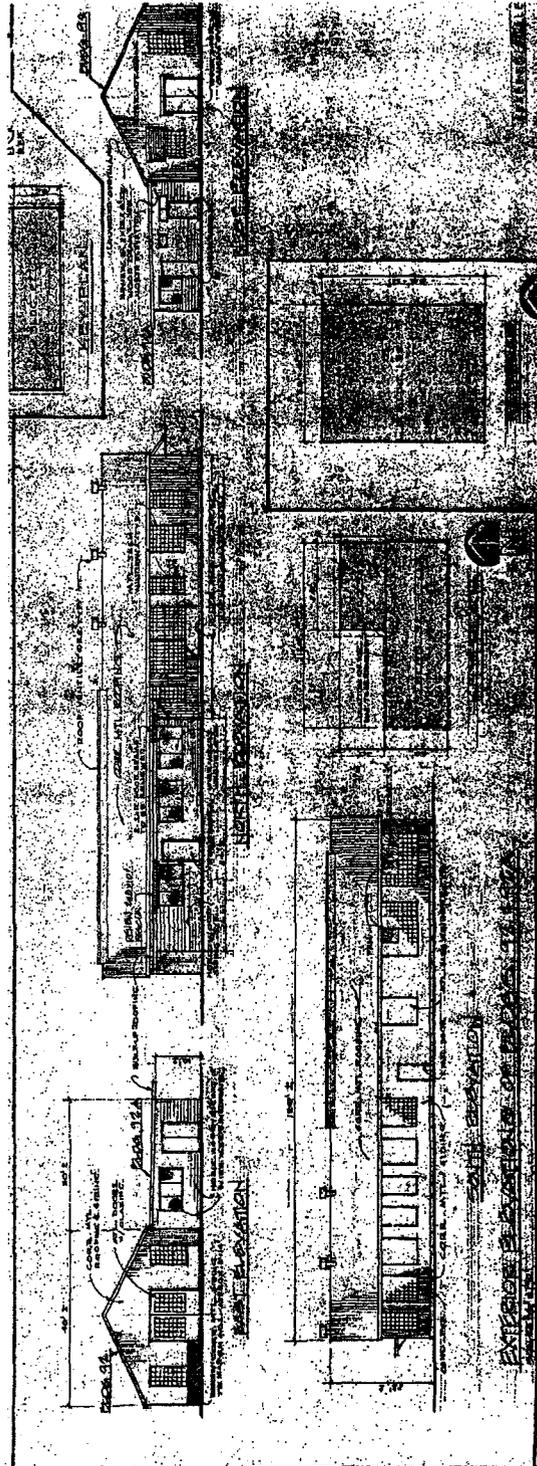
U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 11)

Facility 92, Alterations to Welding School, Electrical Services  
(Drawing No. I-N4-850, dated 11/11/1923) (reduced, not to scale)



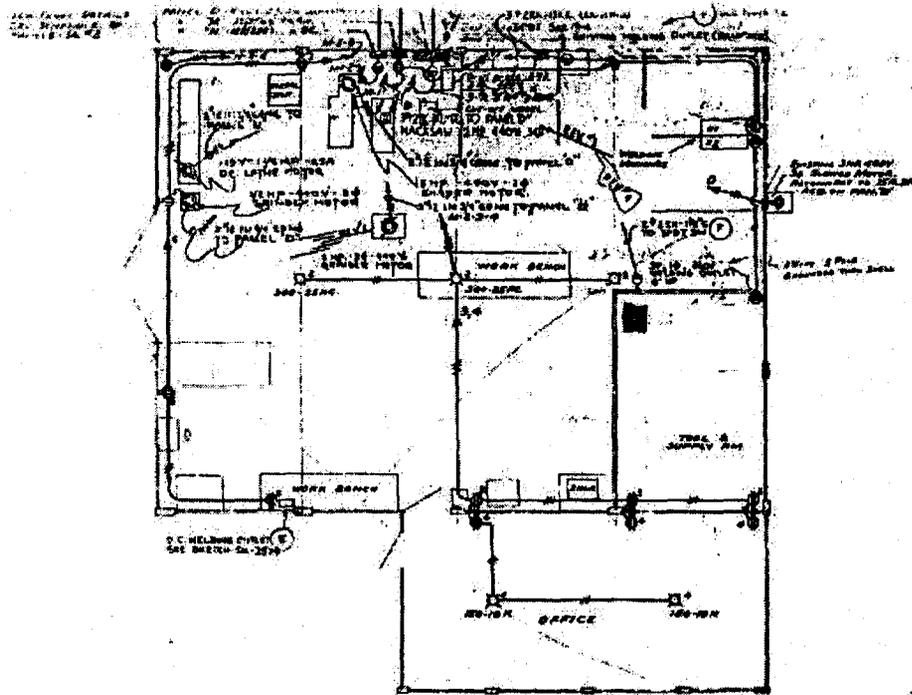
U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 12)

Facility 92 and 92A, Alterations to Welding School, Building Elevations  
(Drawing No. I-N4-851, dated 3/15/1944) (reduced, not to scale)

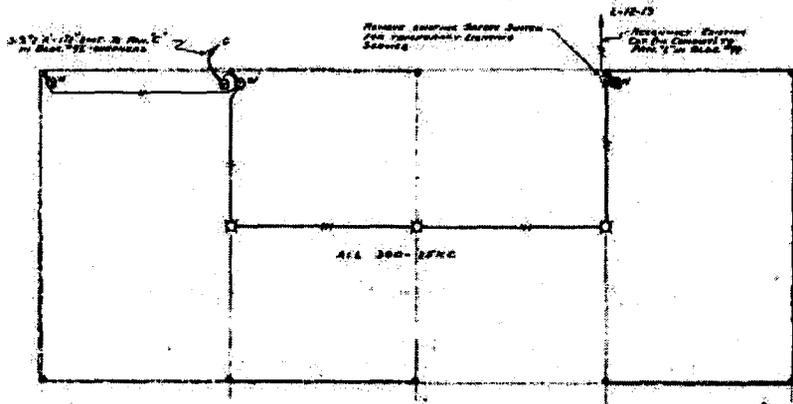


**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
 APPRENTICE AND WELDING SCHOOL ADDITIONS  
 (U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
 (Facility Nos. 92, 391, and 392)  
 HABS No. HI-451 (Page 13)**

**Facilities 391 and 392, Alterations to Buildings, Floor Plans  
 (Drawing No. 7022476, dated 1/28/1978) (reduced, not to scale)**



**FLOOR PLAN  
 WELDING LABORATORY BLDG. #391  
 LIGHTING SUPERSEDED BY 1-1724-143**



**FLOOR PLAN  
 WELDING SCHOOL BLDG. #392**

**U.S. NAVAL BASE, MARINE RAILWAY ACCESSORIES HOUSE AND  
APPRENTICE AND WELDING SCHOOL ADDITIONS  
(U.S. Naval Base, Pearl Harbor, Naval Shipyard)  
(Facility Nos. 92, 391, and 392)  
HABS No. HI-451 (Page 14)**

**Facility 391, Alterations to Buildings, Elevations and Sections  
(portion of Drawing No. 7022476, dated 1/28/1978) (reduced, not to scale)**

