

**Context Study
of the
UNITED STATES
QUARTERMASTER GENERAL
STANDARDIZED PLANS
1866 - 1942**

**Prepared for
U.S. ARMY ENVIRONMENTAL CENTER
ENVIRONMENTAL COMPLIANCE DIVISION
Aberdeen Proving Ground
Maryland**

**by
U.S. ARMY CORPS OF ENGINEERS
SEATTLE DISTRICT
Technical Center of Expertise
for
Preservation of Structures and Buildings**

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STANDARDIZED PLANS STUDY: QUARTERMASTER CORPS 1866-1942

A. CONCEPT:

1) INTRODUCTION

The *Study of the United States Quartermaster General Standardized Plans 1866-1942* was developed to assist the Department of Defense in fulfilling its responsibilities as mandated under *Cultural Resources Management* (Army Regulations AR 200-4); the National Historic Preservation Act of 1966, as amended; the Secretary of the Interior's *Standards for Preservation Planning*; and the guidelines of the National Register of Historic Places (particularly National Register Bulletins 16A and 16B, *How to Complete the National Register Registration Forms*).

The Quartermaster Corps constructed thousands of buildings, often using standardized plans, throughout the continental United States, Alaska, Hawaii and Panama. These buildings can be divided into types, for example: transportation-related buildings include aircraft hangars, stables and stable complexes, gas stations, motor pools and railroad buildings and structures. Multiple copies of the same buildings were built from nearly-identical plans at numerous installations, some differing only in external decorative features. The purpose of this study is to provide written historic context statements for the use of installation managers called on to inventory and evaluate cultural resources.

This study is a subset of a larger work encompassing the building types, architectural history and general historic framework of the Army, Navy, Marine Corps, and Air Force.¹ Researchers interested in other branches of the Armed Forces will find a vast amount of useful material there. The *Study of the United States Quartermaster General Standardized Plans, 1866-1942* has an exclusive focus on Army buildings and structures and is organized in six parts. The first two sections are designed to be helpful to persons unfamiliar with standardized plans. **Concept**, the first section, includes a definition of the limits of this study in terms of time, geography, standardized plans themselves and, finally, the scope of the resource. The second section, **Methodology and Goals**, provides an introduction to evaluating buildings and structures to determine if they are historic. A user's manual to the resources in this study is included here, as is a brief summation of the research completed for this project.

The third section, **The Quartermaster Corps: An Historic Framework**, includes a discussion and analysis of the following:

Accomplishments of the Quartermaster Corps
Architectural styles and landscape architecture used by the Quartermaster Corps

¹ R. Christopher Goodwin and Associates, *National Historic Context for Department of Defense Installations, 1790—1940: Volumes I—IV* (U.S. Army Corps of Engineers, Baltimore District, August 1995.)

Layouts and construction of Army and Army Air Corps post
Major construction programs
Conclusions

The fourth section, **Building Types**, contains information about individual building types, photographs and standardized plans of representative examples. In this section, material dealing with the Army was taken from the larger work, *National Historic Context for Department of Defense Installations, 1790-1940: Volume II*. Within each building type, the following information is discussed:

Description of the type's size, number of stories, identifying features, Etc.
Evolution of the type in support of the Army mission
Association with historic themes of state and national significance
Issues regarding material integrity and character-defining features

Sorted Tables, the fifth section, was derived from a database containing the standardized plans referenced in this study comprise the third section. These tables provide listings of buildings by:

Type
Plan number
Building name
Installation
Date of plan approval.

Finally, the sixth section includes references in a **Bibliography**.

It is suggested that this study be used in conjunction with *National Historic Context for Department of Defense Installations, 1790-1940: Volumes I - IV* (R. Christopher Goodwin and Associates, Inc. for U.S. Army Corps of Engineers, Baltimore District, August 1995).

2) APPLICABILITY

Army Regulation 200-4 prescribes Army policies, procedures and responsibilities for meeting cultural resources compliance and management requirements. These policies are designed "to ensure that Army installations make informed decisions regarding the cultural resources under their control in compliance with public laws, in support of the military mission, and consistent with sound principles of cultural resources management."²

This regulation applies to the Active Army, the Army National Guard (ARNG), the US Army Reserve and to all installations and activities under control of the Department of the Army by ownership, lease, license, public land withdrawal, or any similar instrument. Specifically it applies to:

² Department of the Army *Army Regulation 200-4* (Washington: Director of Environmental Programs, Headquarters, Department of the Army, 31 July 1996), 1-1.

- a. Army installations and activities;
- b. Army National Guard federal installations, activities, and sites supported with federally appropriated funds or subject to federal approval;
- c. Installations and activities, or portions thereof, that are in full-time or intermittent use by the US Army Reserve or Reserve Officers Training Corps;
- d. Real property of other Federal, State, or Reserve Office Training Corps under license, permit, lease, or other land and/or facility use agreement;
- e. Military functions of the US Army Corps of Engineers (USACE);
- f. Tenants, such as other federal agencies, contractor activities, lessees, and all others performing activities in direct support of the Army located on real property under Department of the Army jurisdiction,
- g. Contracts at government-owned, contractor-operated facilities which will reference this regulation and/or will designate by specific citation applicable provisions of this regulation.

3) TIME PERIOD: 1866-1942:

This study spans from 1866 to 1942, which is the period when the Quartermaster Corps was directly responsible for Army construction³. Buildings remaining from the early portions of this period are associated with broad patterns in the early development of the nation and with specific historic themes. For example, during the westward expansion following the Civil War, the Army surveyed many of the nation's railroad routes. After the rail lines were built, Army forts were established along railroad corridors at major transportation centers. These forts consisted of either temporary or permanent buildings, some of which remain today as early representatives of this historic period. Another example of an association with an historic themes includes many of the buildings built in the second and third decade of the twentieth century. These structures include radio buildings, classroom buildings, repair shops, ordnance storage, assembly halls, chapels, clubs, post exchanges and mess halls. As a whole, they are representative examples of a concentrated national effort to mobilize a large army for international warfare.

Three periods of standardized building plans correspond to Quartermaster Corps construction activity: 1860s to 1890, 1890 to 1917, and 1917 to 1942. In the first period (1866-1890) the Quartermaster Corps, the Corps of Engineers and others built Army housing and other buildings. Standardized building plans started to appear in this period, when Army designers gave their attention to standardization.

The second period (1890 to 1917) is characterized by a long series of building types developed by the Quartermaster Corps in Washington, DC. These included officer and NCO housing, barracks, headquarters, gymnasiums, storehouses, post exchanges and other building types. Building materials were varied also and included wood, brick, stone, concrete, clay tile, and so on. For family housing alone, there were "82 different plans with anywhere from 1 to 15

³ In 1942, the Quartermaster Corps shared responsibility for the Army's construction with the Corps of Engineers.

variations.”⁴ This was an enormously productive period. The War Department built thirty-two camps, called cantonments, to train 1,280,000 men. Sixteen of these cantonments were built for the National Guard, whose men were already trained and could live in tents and a minimum number of wood buildings. Sixteen more were built on a huge scale for the Regular Army.

The third period (1917 to 1942) began after the lean post-World War I years, when Congress tightened the purse strings and the Army was severely reduced in size. By the early 1920s, second period buildings had deteriorated dangerously due to lack of funds for maintenance. Soldiers were often sheltered in tents or in buildings that were cold in winter; officers worried about the dangers of fire. An ambitious nation-wide housing program was started in 1926 when Congress enacted Public Law No. 45, authorizing the Secretary of War to sell off forty-three posts and use the profits for a Military Post Construction Fund to build new structures at the remaining posts. This move came at a time when the Army recognized the need for a centralized organization and decided to consolidate its forces. The Defense Act of 1920 established nine corps areas in the continental United States, “with each Corps to contain one active Army division, plus one Reserve and two National Guard divisions.”⁵

Initial funding was only sufficient to improve enlisted barracks and hospitals, so the Army concentrated on posts with the greatest need. Increased appropriations in the following years allowed Army planners to address landscape issues for entire Army posts. During this time, post layouts included design elements from the new field of town and city planning. Attention was also given to comfortable housing that provided a healthy environment for officers and troops. In 1931 costs for the Army’s housing construction program were over \$49 million.⁶ By 1933 the total figure had risen to \$145 million. These funds were used at sixty-four installations and paid for 1,091 sets of quarters that were completed in January 1940.

By the start of World War II, the Quartermaster Corps was charged with construction of mobilization camps; Army Air Corps bases; ordnance works assembly plants for tanks, aircraft and munitions; and hospitals, to name only a few kinds of projects. These projects extended from Alaska to Panama and through the Pacific Islands. They served the Regular Army and National Guard as well as the needs of armies in countries that became our allies. The third period ends with the transfer of construction activities to the Army Corps of Engineers on December 1, 1941 and the transition period into 1942, when both organizations had responsibility for the Army’s construction.

TABLE 1--REPRESENTATIVE EXAMPLES OF BUILDINGS FROM THREE PERIODS

| Period | Building | Date | Installation |
|-----------|------------------------------|------|-----------------------------|
| 1866-1890 | Double Set N.C.S.O. Quarters | 1885 | F. E. Warren Air Force Base |
| 1890-1917 | Officer’s Club | 1916 | Fort Chaffee |
| 1917-1941 | Gymnasium | 1940 | Fort D. A. Russell |

⁴ Bethanie C. Grashof *A Study of United States Army Family Housing Standardized Plans, 1866-1940* (Atlanta, Georgia: Georgia Institute of Technology, 1986), 9.

⁵ Goodwin, R. Christopher and Associates, *National Historic Context for Department of Defense Installations, 1790-1940: Volume I*, (U.S. Army Corps of Engineers, Baltimore District, August 1995), 76.

⁶ This includes \$16 million under contract and \$3 million under advertisement.

4) GEOGRAPHIC LIMITS

This study covers the continental United States and has limited applications to sites in Alaska and Hawaii where Quartermaster designs were erected during World War II. The Quartermaster organization also erected buildings in the Caribbean, South and Central America, Europe and Asia but buildings in these areas are not covered in this study.

5) STANDARDIZED PLANS

a. Introduction

A standardized architectural plan is defined, for this study, as having been used to construct a building or structure at more than one Army post, either as part of a construction program or because plans were exchanged between posts. This study of standardized plans does not include an examination of specifications used on standardized plans. Specifications contain precise and detailed lists of written information which can specify the materials, process, order, or level of workmanship to be achieved. While specifications are interesting for what they can tell us about the materials described, level of technology, or even the design intent of the people who wrote them, specifications properly belong with the drawn portion of plans. Like drawings, specifications are building-focused.

The Army's standardized plans include a vast group of building types. While "standardized" indicates a similarity and uniformity of materials, massing, size and ornamentation, there are slight variations to be found within groups of Army standardized plans. There are a number of reasons for this variety, ranging from programmatic to aesthetic influences.

b. First Period. 1866 to 1890

From 1866 to 1890, the Army's mission was focused on operations at posts on the western frontier, coastal defense posts and some special purpose facilities. After the Civil War, as the frontier was opened to European-American settlement and Native Americans were confined to reservations, many western posts either became permanent garrisons or disappeared. Coastal defense installations in masonry fortifications with smooth-bore artillery were rendered obsolete by rifled guns aboard ships that could demolish masonry walls. A few batteries of heavy artillery, isolated for protection, were built in casemates at strategic locations. Coastal defense troops lived in damp conditions within the casemates. Special purpose facilities included arsenals, armories, Quartermaster depots and special Army schools like the Army Artillery School at Fort Monroe (revived in 1868 after being discontinued in 1860), the Signal School at Ft. Whipple, Virginia (1869), and the Cavalry and Light Artillery School (established at Ft. Riley in 1892). During this time, living conditions were uniformly bad as noted in 1875 in the Surgeon General's *Report on the Hygiene of the United States Army, with Descriptions of Military Posts*. The report noted that "crowded living conditions, contaminated water supplies and faulty

construction of quarters contributed to diseases among soldiers.”⁷

In 1882, General William T. Sherman, Commanding General of the Army, offered a plan to Congress that would consolidate the Army’s small garrisons into larger ones by keeping selected posts and building permanent buildings there, keeping a few posts for 10 to 15 years, and abandoning others. Enthusiastically supported by the War Department and Sherman’s generals, little funding was available either for permanent buildings or to move troops. Nine years later, twenty-eight (about one-fourth of the total number of western posts) had been abandoned and ten or twelve more were ready as soon as shelter could be found for the troops. Garrison strengths in 1894 still “ranged from 60 to 750 soldiers.”⁸

The Quartermaster Department had been developing and using a few standardized plans since the 1860s. It was not, however, until the 1880s that the War Department began construction of permanent facilities with water and utilities. By 1893, the Secretary of War noted that in “all posts which give the promise of permanency it has been the aim of the Department to construct buildings of brick, stone, or other enduring material and of solid workmanship...”⁹ During the 1890s, the Quartermaster developed hundreds of standardized plans for many building types, including “officer and NCO quarters, barracks, stables, telegraph offices, administration buildings, and riding halls.”¹⁰

c. Second and Third Periods (1890 to 1917 & 1917 to 1942)

Standardized plans have been used to construct buildings the Army considered both permanent and temporary. During World War II, the Army used more than 30,000 temporary buildings to shelter, train, and feed its troops. The majority of these buildings were put up with an intended design life of five to twenty years. In 1985, an Army inventory indicated that 24,000 of these “temporary” buildings were “still standing and that a large but undetermined number were still in use.”¹¹ Many of these buildings are temporary in name only because of long periods of lean funding when the Army had neither the money to build replacements nor to remove them. During the period leading up to and including World War II, Army standardized plans were developed for a very wide range of buildings and structures; these include headquarters buildings, barracks, electrical vaults, prisoner of war camps, railroad trestles and munitions storage. Even within a single building type, the Army’s standardized plans can exhibit some variety due to regional influences. This application of regional architectural styles also allowed for the use of local materials and resulted in a lower per-unit cost. During this period, the Army

⁷ Goodwin, R. Christopher and Associates, *National Historic Context for Department of Defense Installations, 1790-1940: Volume I*, (U.S. Army Corps of Engineers, Baltimore District, August 1995), 25.

⁸ Goodwin, R. Christopher and Associates, *National Historic Context for Department of Defense Installations, 1790-1940: Volume I*, (U.S. Army Corps of Engineers, Baltimore District, August 1995), 26.

⁹ War Department, *Annual Report* (1893), 9.

¹⁰ Goodwin, R. Christopher and Associates, *National Historic Context for Department of Defense Installations, 1790-1940: Volume I*, (U.S. Army Corps of Engineers, Baltimore District, August 1995), 47.

¹¹ Arlene R. Kriv, Editor, *World War II and the U.S. Army Mobilization Program: A History of 700 and 800 Series Cantonment Construction*, (Washington: Historic American Building Survey/Historic American Engineering Record (HABS/HAER) National Park Service for Department of Defense, 1993), 3.

built entire posts at which all buildings on post “should have a military character, but it should be the character of its *local* and its natural traditions.”¹² Buildings also conformed to what planners perceived as a region’s prevalent architectural style. Examination of an Early Federal style barracks and a Spanish Mission style barracks constructed from the same series of plans, reveals that except for exterior ornamentation and roof styles, the interior layout is very similar.

Climate also had an influence on the appearance of buildings built from standardized plans. Army barracks constructed from 1918 Quartermaster Corps standardized plans in the nation’s southern states varied from those built for the colder, northern climate. (See Figure 1.) Practically identical, the interior walls and ceilings of those buildings in the northern states were finished with a single layer of wall board (either 3/16” fiber or 3/8” gypsum). Soldiers living in barracks in southern areas had to be content with interior wall surfaces showing open studs. In more extreme conditions, standardized buildings at Ladd Field, near Fairbanks, Alaska, received Arctic entries (cold weather vestibules) and some were built several feet above ground to avoid melting “permanently” frozen ground.¹³ (See Figure 2.)



Figure 2. Arctic entry added to Nurses Quarters at Ladd Field (now Fort Wainwright) near Fairbanks, Alaska.

¹² Grashof, Bethanie C., *A Study of United States Army Family Housing Standardized Plans*, Volume I, (Atlanta: Georgia Institute of Technology, College of Architecture, 1986), 49.

¹³ They also received extra insulation, improved attic ventilation and strengthened roof trusses. Utilities at Ladd were placed in an underground “utilidor” for ease of access during minus twenty and even minus forty degree winters.

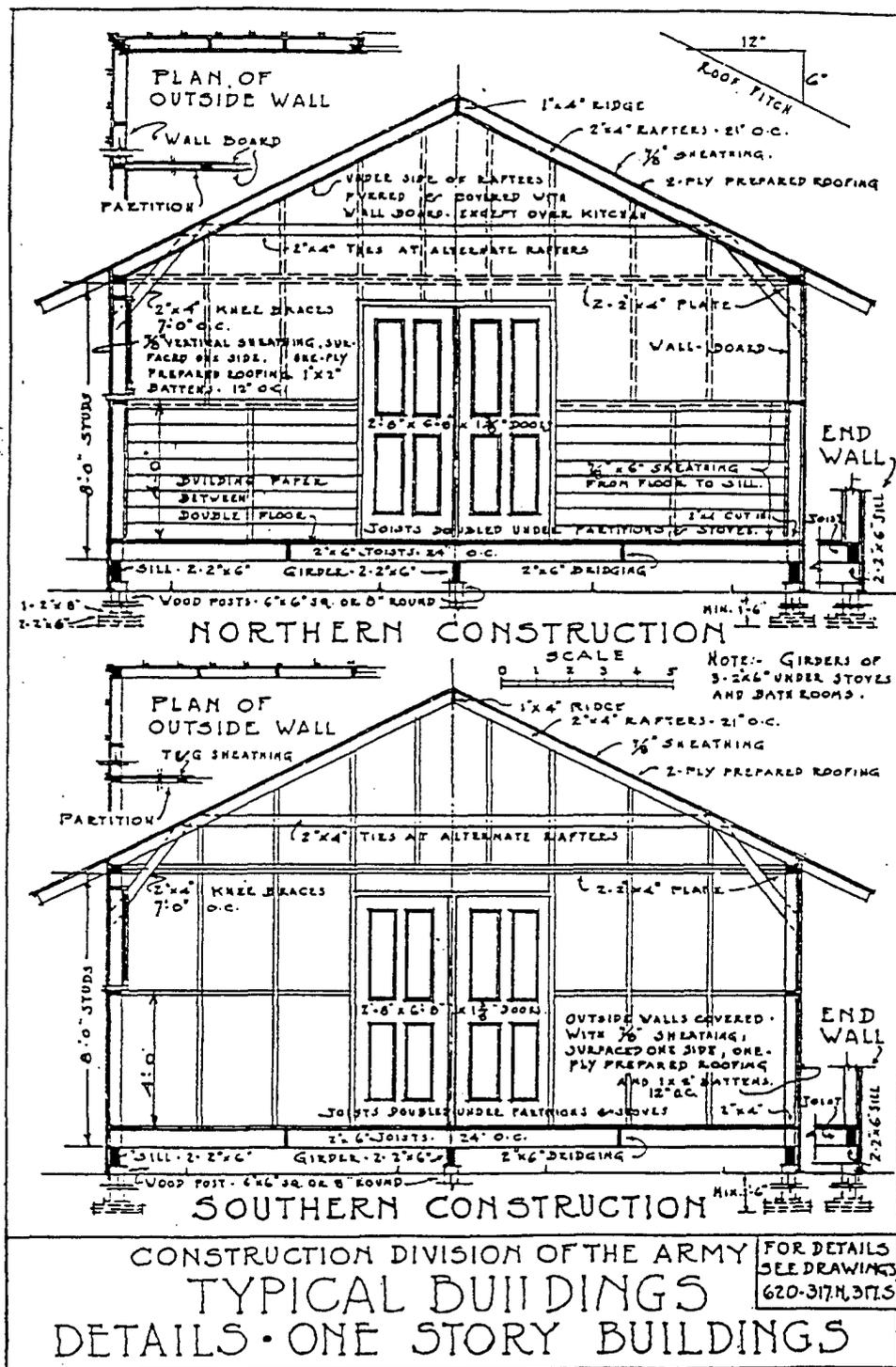


Figure 1. Typical building details for standardized buildings to be built in either northern or southern areas. (Construction Division, *Manual of the Construction Division of the Army, Section C, Engineering Division* [Washington: Consolidated Supply Co. Printers, 1919, plate 46])

Standardized plans were also influenced by a quest to obtain the most efficient building at a reasonable cost. For example, during World War II, experiments were conducted in construction

of standardized barracks built of masonry, steel and hollow tile.¹⁴ Eventually, wood was chosen as the most cost-effective and easily obtained material. Yet another series of barracks, generally built of wood, were occasionally built of concrete masonry blocks, as at Bolling AFB (See Figure 3.).

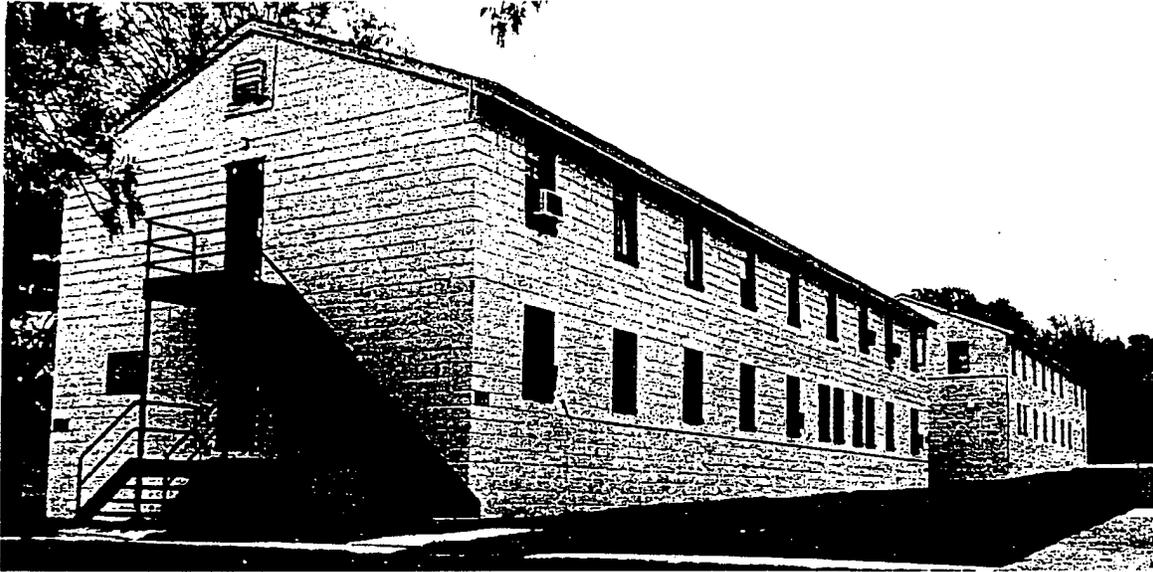


Figure 3. Building 424, barracks built from 800 series standardized plans at Bolling Field, now Bolling Air Force Base, District of Columbia. Note that the walls are laid up in concrete masonry blocks instead of being wood-framed. (US Army Corps of Engineers, Seattle District, 1997)

Another influence on standardized plans was the Army's changing role. Early Quartermaster Corps standardized plans included shops with work spaces for a blacksmith, saddler, and carpenter. (See Figure 4.) By World War II, as the Army prepared to fight a technological war, standardized plans had been developed with much cleaner work spaces for avionics repair. Also, armored tanks and large trucks required new standardized plans to build significantly larger shops and garages than were needed when the Army relied upon mules and horses. In 1942, standardized plans were even developed for runways. Runways at Army Air Corps fields had initially designed for light aircraft but many runway surfaces failed under the loads of repeated landings and take-offs of hundreds of small training aircraft, much less those of new medium and heavy bombers. Developed by the Corps of Engineers, a method to compact soils and build a slight amount of "flex" into the paving had its genesis in the highways designed by the California Highway Department. The new flexible runway surfaces were sufficiently strong to support thousands of landings and resulted in "three new chapters in the *Engineering Manual* and a comprehensive handbook for Aviation Engineer Battalions."¹⁵

¹⁴ Lenore Fine and Jesse A. Remington *The Corps of Engineers: Construction in the United States* (Washington: The Technical Services, Office of the Chief of Military History, United States Army, 1972) 344

¹⁵ Fine & Remington, 632.

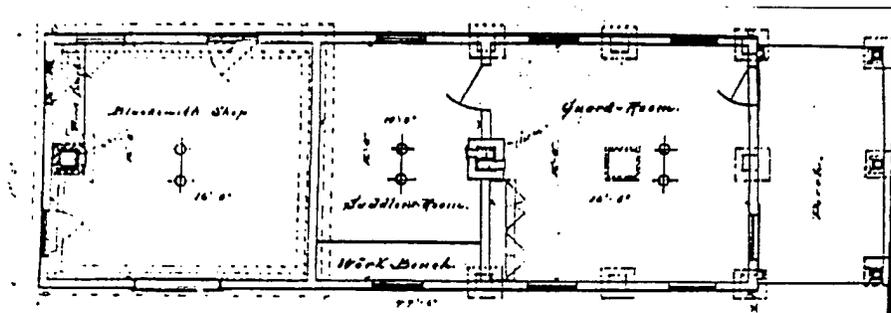


Figure 4. Standardized Army plan for a blacksmith shop, saddler room, guard house, no date. (National Archives)

d. Shared Characteristics

Aesthetic, practical and mission-oriented considerations aside, the Army usually repeated the same design over and over at individual posts until there were enough repair shops, chapels, garages, barracks, Etc. to shelter and train troops. While standardized plans exhibit slight variations and evidence a distinct evolution of role, materials and style, standardized plans also share a great deal of common ground. Standardized plans, particularly those from the second and third periods, were often the product of a careful analysis of cost, efficiency and ease of construction. Utilitarian in character, their architecture is generally restrained and plain. Even

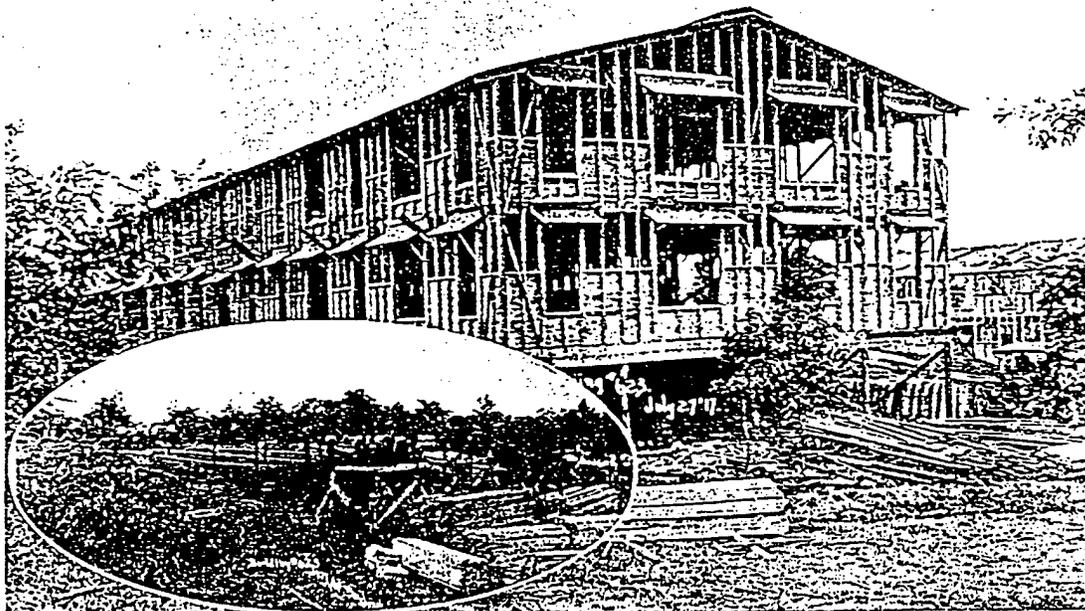


Figure 5. A typical barracks at Camp Devens at Ayer, Massachusetts. The insert (July 20th 1917) shows pre-cut lumber. Seven days later, in the larger view, the building is framed and nearly enclosed. (Peter F. O'Shea, "The Human Side of Cantonment Building", *American Builder*, October 1917, Volume 24, No. 1, 41)

the Army's Spanish Mission style buildings have a reserved character and are devoid of gaudy ornamentation. An example of efficiency of cost was achieved through the purchase of materials in bulk, as in the construction of Camp Devens in Ayer, Massachusetts in 1917 where

26,000,000 board feet of southern pine was purchased.¹⁶ See **Figure 5**.

Buildings erected from standardized plans may also have in common the prefabrication of building elements like siding, trusses, windows, doors, and so on. Assembly-line precision in erection is another characteristic of standardized plans. Returning to Camp Devens in Massachusetts, the rapid construction of 1,600 buildings was accomplished by extremely efficient planning and organized teams. Layout teams marked the location of buildings and roads, these were followed by brushing teams to remove undergrowth. Behind them came road crews building temporary roads for the trucks to deliver materials to the job sites so the work crews could start construction. Meanwhile, other crews were laying out mains and sewer lines, digging ditches, installing pipe and covering it over--practically as soon as the pipe was laid. Tools were used in quantity, with a blacksmith shop attached to a central tool house and equipped with "forges, grindstones, drills and iron cutters" to sharpen and fix broken tools. Kitchens served 18,000 meals a day in three open air restaurants and at seven booths in remote sites.

e. The 600, 700 and 800 Series Standardized Plans

War II temporary buildings were constructed from a numbered series of plans, referred to as the 700 series. Some feeling for scale is perceived with the understanding that the 700 series comprises drawings and specifications for over 300 distinct building types, with variations within each type. Individual plans for buildings within this series are numbered with a 700- prefix, as seen in **Table 2**, a partial list of 700 series building plans. This numbering system also extended to many drawings needed for each building that showed construction details. For example, the detail drawings required for construction of a standardized Motor Repair Shop are listed under the heading for that building, also in **Table 2**.

TABLE 2. PARTIAL LIST OF 700-SERIES BUILDINGS, SHOWING VARIETY OF BUILDING TYPES AND DETAIL DRAWINGS

| Plan Number | Building Type |
|-------------|--|
| 700-301 | Quarters, Major General, Brigadier, Regimental Commander |
| 700-310 | Recreation Building |
| 700-314 | Shop -- Motor Repair |
| 700-314.1 | <i>Wheel Aligning Bay</i> |
| 700-230 | <i>Typical Details of Doors & Windows</i> |
| 700-231 | <i>Exterior & Interior Miscellaneous Details</i> |
| 700-232.1 | <i>Exterior & Interior Miscellaneous Details</i> |
| 700-233 | <i>Exterior & Interior Miscellaneous Details</i> |
| 700-234 | <i>Details of Smoke Pipes</i> |
| 700-239 | <i>Heating Details</i> |
| 700-243 | <i>Electrical Details</i> |
| 700-1162 | <i>Miscellaneous Details</i> |
| 700-372 | Sheds – Motor Vehicles |
| 700-462 | Ward – Standard |

¹⁶ Peter F. O'Shea, "The Human Side of Cantonment Building", *American Builder*, October 1917, Volume 24, No. 1, 148.

| | |
|------------|-----------------------------|
| 700-1116 | Mess Hall for 118 & 250 Men |
| 700-1116.1 | Mess Hall for 170 Men |
| 700-1117 | Mess Hall for 250 Men |
| 700-1165 | Barracks for 65 Men |
| 700-1165M | Barracks for 63 & 74 Men |
| 700-1168 | Barracks for 45 & 63 Men |

The 700 series gave way to the 800 series, which has similarities to the 700 series. The 800 series is characterized by slight structural improvements, the removal of superfluous features, and the enlargement of several building types, such as troop barracks.

Prior to the 700 series, there was also a 600 series which was developed and used by the Quartermaster Corps in World War I. The 700 series has a chronological but not an evolutionary relationship to the 600 series as buildings from the two series are dissimilar. The 600 series offered “standard drawings and specifications ...for camp plans, hospital and miscellaneous buildings, plumbing, sewers, sewage disposal plants, heating, water supply, electric lighting, refrigeration, roads, railroads, terminals, etc.”¹⁷ Quartermaster buildings dating from World War I and built using the 600 series are somewhat difficult to find. For example, only 14 of 450 buildings in the historic district at Fort Lewis, Washington survive that were built using the 600 series.

As the Army’s mission changed, some buildings were adapted for reuse but some new construction was required to fit the new mission. This evolution extended to practically all building types covered in this study. Stables were renovated to become storage buildings, and ordnance repair shops were converted for use as offices and radio repair facilities. New buildings were required for special uses and to shelter new units created in response to the increasingly technical nature of warfare. Vehicle repair shops were built to accommodate large trucks and tanks of progressively large size and new buildings were designed to calibrate bomb sights, perform plastic surgery, and train men for chemical warfare. The design of residential buildings underwent tremendous change, moving from wood buildings with no plumbing to masonry barracks with all utilities.

f. “Semi-Military Buildings

A unique group of World War I buildings, termed “semi-military”, was also constructed from standardized plans at Army posts. Several types of community and service buildings are identified below but are not analyzed in this study as they were designed and paid for by private funds--although often built by troop labor. (See **Table 3**.)

Community and service buildings played an important part in providing recreation and a variety of comforts within the World War I cantonments. The design and construction of these buildings was the responsibility of the War Department’s Commission on Training Camp Activities. Located within the War Department but staffed with civilians, this organization was responsible

¹⁷ Quartermaster Corps, Engineering Division, *Manual of the Construction Division of the Army, Section C* (Washington: Consolidated Supply Co. for U.S. Army, 1919) 2.

for administering the joint effort of social service groups in behalf of troops and officers by supplying "our young men everywhere with the normalities of life."¹⁸ A special grant of \$320,000 to accomplish this goal was donated by the Carnegie Corporation, supplemented with other funds from organizations such as the Knights of Columbus, the Jewish Welfare Board, the

TABLE 3. SEMI-MILITARY BUILDINGS LOCATED IN ARMY WWI CANTONMENTS

| Building Type | Designer | Description |
|-----------------|--|--|
| Liberty Theater | Commission on Training Camp Activities | Two types. Each of 16 National Army camps received one theater. Wood framed with capacity for 3,000, stage, orchestra pit, dressing rooms. Nine smaller versions built at National Guard camps with capacity for 1,000. |
| Auditorium | Knights of Columbus | Wood framed, 60' by 100', built in National Army cantonments |
| Club building | Knights of Columbus | Wood framed, 40' by 100', chaplain's room and altar at one end, two types, built in National Guard camps |
| Libraries | Edward L. Tilton, New York | Wood frame, two sizes, 40' by 120' built in National Army cantonments and 40' by 93' built in National Guard camps. All with reading rooms for 200 people and two bedrooms at one end for staff. Fireplaces in some, enclosed porches in others. 36 built at National Army cantonments and National Guard camps. |
| YMCA Building | YMCA | Two designs, "E" variant (including an "E-2" style, see Figure 6.) used at National Army cantonments and "F" variety for the National Guard. Plan generally included an auditorium joined to a social wing by a passageway containing offices and hall. Wood framed, one-story buildings with broad bands of windows and double dormers. |
| Hostess House | YWCA | Designed by women architects to take care of women visitors to posts, up to three Hostess Houses were built at some larger cantonments. Built from a standardized design, they varied in size and style according to local conditions. Generally "bungalow-like" they were located near post entrances for easy access by visitors. |

American Library Association, and the Young Men's Christian Association (YMCA). Later, the Young Women's Christian Association (YWCA) joined the effort by introducing the Hostess House to camps where nearly one-quarter of the YWCA's \$5,000,000 war chest was directed toward construction of these buildings. Figure 6 illustrates a "semi-military" YMCA community service building.

¹⁸ Moulton, Robert H., "Semi-Military Buildings in Army Cantonments", *The Architectural Record* (July, 1918), 27.

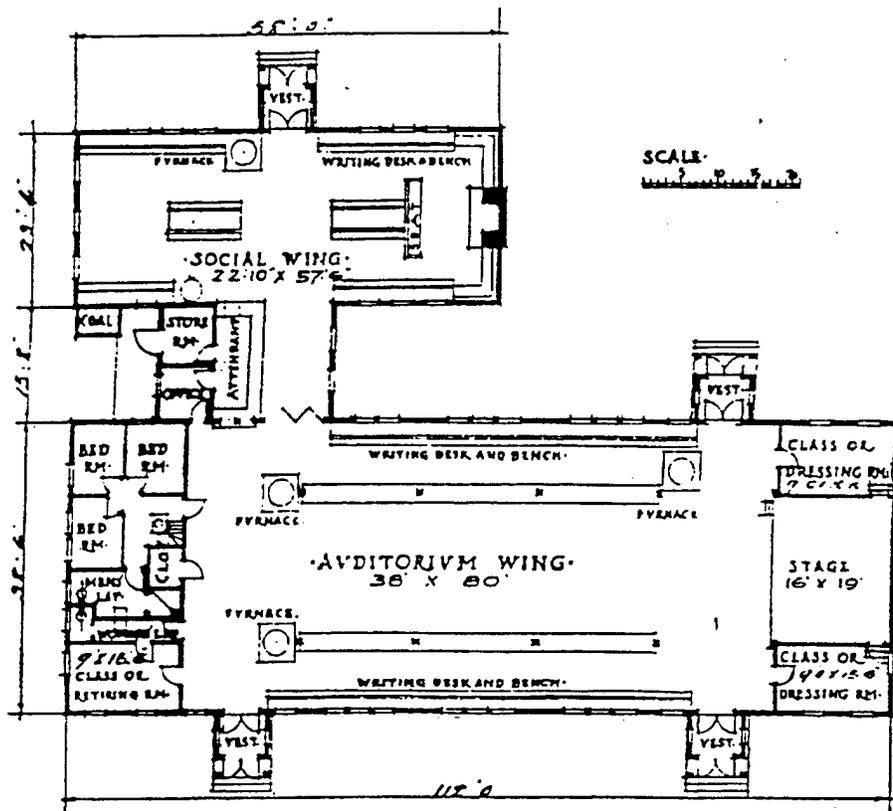


Figure 6. Plan of YWCA Building (Type E-2), a 1918 “semi-military” design. (Robert H. Moulton “Semi-Military Buildings in the National Army Cantonments”, *The Architectural Record*, July, 1918, 24.

g. Conclusion

Buildings constructed from standardized plans have a strong element of *potential* historic significance. Taken individually, few of these buildings have a direct association with events; famous persons; an architectural type, period or method of construction. It is also unlikely that they would represent the work of a master, nor is a study of individual buildings likely to yield valuable historic information. Taken as a group, however, these buildings are significant for their design, construction and technological innovation. Techniques such as the standardization of plans, prefabrication of units, and assembly line approach to construction “were largely pioneered in the construction of these mobilization structures.”¹⁹

6) DRAWINGS REPRESENTED IN THIS STUDY

The earliest standardized designs referred to in this study are two drawings from F.E. Warren Air

¹⁹ Arlene R. Kriv, Editor, *World War II and the U.S. Army Mobilization Program: A History of 700 and 800 Series Cantonment Construction*, (Washington: Historic American Building Survey/Historic American Engineering Record (HABS/HAER) National Park Service for Department of Defense, 1993), 3.

Force Base, formerly known as Fort D.A. Russel,²⁰ covering the period between 1885 - 1888. Only one drawing is included, as very few useable standardized Quartermaster drawings were found that pertain to the first period in either the National Archives in Washington, DC or at individual installations. In the second period (1890 to 1917), 216 drawings are referred to from Forts McPherson, Riley, Russel, Chaffee, and the *Manual for the Quartermaster Corps, 1916, Volume 2*. Included in this study are 39 drawings from the second period. Within the third period, (1917 - 1940), 240 drawings are referred to and 115 are represented in this study. Sources used were *Manual of the Construction Division of the Army, Section C, Engineering Division, 1918*, and drawing secured from Forts Russel, Riley, Lewis, McPherson, and F.E. Warren Air Force Base, Office of the Quartermaster General, the Chief of the Air Corps and Marshall Field. The name Fort Russel will be used in this study to refer to this installation, except when dealing with material pertaining to the Army Air Corps or the United States Air Force.

Drawings either included or referenced in this study from Forts Chaffee, Lewis, McPherson, Riley, and D.A. Russel, were taken from Quartermaster Corps building inventory sheets, real property record cards, and surveys of historic properties at these bases. Copies of War Department books containing Quartermaster Corps building inventory sheets, Form 117, were furnished by installations (See **Figure 7**). These documents were made shortly after construction in the 1930s and contain QMC standard plan numbers. Often they contain original photographs. Many real estate offices at individual posts also maintain a more modern system of real property record cards, DA Form 2877, for each building, see **Figure 8**.

Many standardized Quartermaster Corps drawings in this study are from Fort Riley, Kansas. Drawings from this post are well represented in this study for two reasons. First, the resources of this installation were accessible via the Internet and could be easily retrieved for research purposes. Second, and most significantly, Fort Riley contains excellent examples of Quartermaster Corps structures. In 1900, Fort Riley was the largest of 120 permanent posts constructed by the Quartermaster and could accommodate 1,300 troops. By 1940, Fort Riley possessed some 20,000 acres and was comparable in size to Fort Jackson, South Carolina and Fort Ord, California. Although Fort Riley is smaller than posts like Fort Bragg, Fort Benning, Fort Lewis and Fort Knox, it represents the well-developed Quartermaster utility and transportation systems and standardized building types.

²⁰ Researchers can find the appearance of several names throughout the history of a single post a daunting task to unravel. Fort D.A. Russell is a typical example of an Army fort that evolved, though several name changes, into an Air Force base. Established near Cheyenne, Wyoming in 1876 to protect Union Pacific Railroad workers from hostile Indians, Fort D.A. Russell became a large cavalry post and acquired artillery units in the early 1900s. In 1919, 125 aircraft were stationed at the fort's airfield. In 1930, President Hoover changed the post's name to Fort Francis E. Warren, honoring Wyoming's territorial governor. Quartermaster troops trained there during World War II and, in 1949, the post's name was changed to Francis E. Warren Air Force Base. The base was first used as a training facility and became part of the Strategic Air Command in 1958. It took on a mission of intercontinental ballistic missile operations at that time. The base operated Atlas D and E missiles, Minuteman I and IIIs, and Peacekeeper missiles. The Twentieth Air Force, headquarters for the nation's ICBM operations, is located at F.E. Warren AFB. (Source: <http://www.warren.af.mil/history>, October 9, 1997.)

The standardized drawings included in this study represent the research findings to date. Drawings for all the thousands of buildings the Quartermaster organization constructed could not be located. This study is not, therefore, a finished product. Some gaps were found after the initiation of the study. For example, the drawings from the first period found in the National Archives were beyond the scope and budget of this project to reproduce and few drawings from this period were found at individual posts. Regarding landscape architecture details, while references were found to this category of drawings, very few sheets were located. Finally, the drawings included in the tables in Section Three do not approach or represent the entire body of work produced by Quartermaster designers. In short, this work does not purport to present a 100% complete "reissue" of standardized Quartermaster plans. It does, however, provide an overview and a starting point from which to research these buildings.

NY
117 (QMC No. 172A)

Post Plan No. _____

O.Q.M.G.: Plan No. 6217-65-74-78 Building No. 69

Place **FORT MCPHERSON, GEORGIA;**
 Designation of building **DENTAL CLINIC & CONF. WARD** Capacity **18 Beds**
 Total cost, \$ **123,443.56** Date completed **March 31, 1939**
 Material: Walls **Brick & Struc. Clay Tile** Foundation **Concrete**
 Roof **Slate Shingles** Floors **Concrete**
 Total floor area above basement, square feet **8192**
 Size: Main building **34' x 130'** Wings _____ Basement **34' x 130'**
 a. **Hospital Central Heating Plant** Height of first floor above ground **5'-0"**
 (low basmt)
 b. **Steam Radiation** How lighted **Electrically**
 (Type of basmt) Water connections **Yes**
 c. **24" Dia. Patterson-Kelly with Steam Coil heater** Sewer connections **Yes**
 (Type of basmt) by cen. htg. Plants connections **Yes**
 COOKING RANGES INSTALLED REFRIGERATORS INSTALLED METERS INSTALLED
 (Give quantity and size) (Give quantity and size) (Give quantity and size per hr.)
 Coal **None** Gas **None** Model **FR-47** Gas 1 **1-30 amp-220V**
 Gas **None** Electric 2 **1-model-CW-2547** Electric 3 **1-30 amp-220V**
 Oil **None** Ice **None** Oil **None**
 Steam **None** Water **None**



ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

| DATE | DESCRIPTION | COST | DATE | CC |
|----------|---|----------|------|----|
| 5-12-37 | Installed 100 Steam Radiator | \$262.50 | | |
| 5-24-37 | Installed 100 Radiators, double heating | 1494.99 | | |
| 8-10-37 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 431.68 | | |
| 7-20-39 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 128.45 | | |
| 10-21-40 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 48.35 | | |
| 12-14-40 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 428.26 | | |
| 6-17-41 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 156.50 | | |
| 6-17-41 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 1127.10 | | |
| 6-17-41 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 174.70 | | |
| 6-17-41 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 11.70 | | |
| 6-17-41 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 11.52 | | |
| 6-17-41 | Installed 100 Radiators, double heating, installed 100 Washers and 100 Dryers | 551.90 | | |

Instructions.—"a" State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 "b" State whether steam, vapor, hot water, or hot air.
 "c" State whether gas, coal, oil, or central heating plant.

See reverse side of form.

Figure 7-Example of War Department QMC Form 117 (inventory sheet) Fort McPherson, Georgia. The Dental Clinic was completed on March 31, 1939 using the O.Q.M.G. standardized plan number 6217-65-74-78.

| | | | | | | | | | |
|----------------------------|--|----------------------------------|---------------------------|---------------------------------|-------------|---|--|---|--|
| 1. FACILITY TYPE 1307 | | 2. DESIGNATION GEN STOREHOUSE | | 3. CATEGORY CODE 44270-44220 | | 4. DESIGNED CAPACITY | | 5. TOTAL AREA 1092 SF | |
| 6. UNIT OF MEASURE | | | 7. DRAWING NO. 19-2-79 | | | 8. MAP NO. | | 9. <input type="checkbox"/> LEASED <input checked="" type="checkbox"/> OWNED LEASE NO. | |
| 10. AIR CONDITIONING | | | 15. FIRE PROTECTION | | | 16. TYPE OF CONSTRUCTION <input checked="" type="checkbox"/> PERM <input type="checkbox"/> SEMI PERM <input type="checkbox"/> TEMP | | | |
| a. TYPE | | | a. NUMBER | | | 19. BUILDING DIMENSIONS | | | |
| b. CAPACITY | | | b. TYPE | | | a. MAIN BLDG 42' x 26' | | | |
| c. F.W. TO A.R. COND. | | | 17. MATERIALS | | | b. OFFSETS | | | |
| 11. HEATING | | | h. FOUNDATION Concrete | | | c. WINGS | | | |
| a. SOURCE Furnace | | | d. FLOOR Concrete | | | d. BASEMENT | | | |
| b. FUEL Oil | | | e. WALLS 8" Tile | | | e. ATTIC | | | |
| 12. HOT WATER FACILITIES | | | j. ROOF Asb Roofing Paper | | | 20. TYPE OF CARD | | | |
| a. CAPACITY | | | c. SURFACE | | | <input checked="" type="checkbox"/> BLDG <input type="checkbox"/> MISC STR | | | |
| a. TEMPERATURE RISE | | | f. BASE | | | <input type="checkbox"/> UTIL. DIST. SPS <input type="checkbox"/> RAILROAD | | | |
| 13. NO. USABLE FLOORS 1 | | | 14. OTHER MEASUREMENTS | | | <input type="checkbox"/> LAND <input type="checkbox"/> SURFACED AREAS | | | |
| 15. UTILITY CONNECTIONS | | | | | 21. REMARKS | | | | |
| NUMBER | | SIZE | | CAPACITY | | | | | |
| a. WATER | | | | | | | | | |
| b. SEWER | | | | | | | | | |
| c. ELECTRICITY | | | | | | | | | |
| d. GAS | | | | | | | | | |
| e. STEAM | | | | | | | | | |
| f. CONDENSATE | | | | | | | | | |

DA FORM 2877 1 NOV 54 REPLACES DA FORMS 5-46 5-47 5-49 5-50 5-51 AND 5-52 WHICH ARE OBSOLETE REAL PROPERTY RECORD (AR 735-27)

| COST DATA | | | | |
|------------------------------|----------------|--|----------------|---------------------|
| VOUCHER NO. | DATE COMPLETED | DESCRIPTION OF CHANGE | COST OF CHANGE | TOTAL COST |
| - - | Apr 1934 | Original Bldg | | \$ 2,035 |
| V-1326-64 | 12/11/63 | Renovate for use as Tool Rm. Incl Install. Cannon Heater. Cat. chg fr 422 to 44270 | \$ 444 | \$ 2,479 |
| V-4190-67 | 1/19/67 | Bldg. No. 91 changed to 1307 | N/A | \$ 2,479 |
| V-3675-70 | 12/10/69 | Install Furnace & 275 Gal Tank | \$ 589 | \$ 3,068 |
| - - | 6/10/70 | Transcribed from WD AGO Form 5-47 | N/A | \$ 3,068 |
| SP009 | 6/25/95 | chgecatd per AR415-28 from 44270 to 44220 | | |
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| CATEGORY CODE 44270-44220 | | DESIGNATION General Storehouse | | FACILITY NO 1307 |

Figure 8. Example of Form 2877 for a munitions storehouse built in 1934 from Quartermaster Corps standardized plans with drawing No. 19-2-79. Fort Lewis, Washington.

B. METHODOLOGY AND GOALS:

1) OVERVIEW

This Standardized Plans Context provides background material needed to determine the historic significance of Army buildings constructed from 1866 to 1942. The study provides a framework within which standardized buildings constructed by the Quartermaster Corps in this period can be identified and evaluated for their historic significance. Identification and evaluation of historic properties is mandated under 36CFR60 and AR 200-4.

2) NATIONAL HISTORIC PRESERVATION ACT OF 1966

The National Register was authorized under the National Historic Preservation Act of 1966 as amended (Public Law 89-665) and serves as the nation's official list of historic sites and properties. The National Register criteria for evaluation define the nature and scope of the properties that are considered eligible for listing in the National Register of Historic Places.

The criteria for evaluation and criteria considerations are given in **Table 4** (following pages). These are the ground rules by which federal properties are evaluated for historic significance. Information about related significant properties may be grouped when they share common patterns or themes of history. Historic information organized in this manner is called a historic context. Historic contexts "are those patterns or trends in history by which a specific occurrence, property, or site is understood and its meaning (and ultimately its significance) within prehistory or history is made clear."²¹ The premise behind a context is that historic events are not isolated events but are part of patterns and larger trends that can be discerned for a particular period (see **Table 5**, following pages). The organization of a context is based on "a consistent framework: theme, geographical area, and chronological period."²²

Historic contexts provide installation managers with two valuable tools. They offer information that define and explain the historical reasons individual properties were developed. Contexts also provide managers with a standardized way to describe and explain the historic significance of diverse properties. They provide the foundation for decisions about identification, evaluation, registration and treatment of historic properties.

After a context is identified (including theme, geographical area and period) information about the context is gathered. Next, the information is synthesized in a written narrative to evaluate the events, patterns, persons, and architectural types that make up the context. Finally, property types are identified and the National Register criteria for evaluation are applied to examples as the important patterns, events, persons, and cultural values discussed in the narrative are identified.

²¹ Interagency Resources Division, National Park Service, "How to Complete the National Register Multiple Property Documentation Form" *National Register Bulletin 16B* (Washington, 1991) 11.

²² *Ibid.*, 1.

TABLE 4--THE NATIONAL REGISTER CRITERIA

CRITERIA: The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. That are associated with the lives of persons significant in our past; or
- C. That embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded, or may be likely to yield, information important in prehistory or history.

CRITERIA CONSIDERATIONS: Ordinarily cemeteries, birthplaces, or graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered eligible for the National Register. However, such properties will qualify if they are integral parts of districts that do meet the criteria or if they fall within the following categories:

- A. A religious property deriving primary significance from architectural or artistic distinction or historical importance; or
- B. A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or
- C. A birthplace or grave of a historical figure of outstanding importance if there is no other appropriate site or building directly associated with his or her productive life; or
- D. A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or
- E. A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or
- F. A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own historical significance; or
- G. A property achieving significance within the past 50 years if it is of exceptional importance.

TABLE 5--EXAMPLES OF SPECIFIC HISTORIC CONTEXTS

| INSTALLATION | CONTEXT |
|--------------------|--|
| McChord AFB, WA | Impact of Air Corps Act and the Army Housing Program, 1926 Effect of Reorganization of Army Air Corps, 1935 Planning and Construction by the Quartermaster Corps, 1938-1941 World War II Era Use and Expansion, 1941-1946 |
| Fort Huachuca, AZ | The Indian Wars and National Expansion, 1860-1890 Facilities Expansion, 1912-1917 Pershing's Expedition to Mexico, 1916 Quartermaster Construction, 1931 |
| Fort McPherson, GA | Quartermaster Corps Design and Construction, 1885-1900 Role During the Spanish American War Evolution of Quartermaster Corps Depot System |

3) STANDARDIZED PLANS AND HISTORIC SIGNIFICANCE

a. Introduction

The question most likely to be asked by an installation manager concerned with identifying or evaluating an Army building or structure constructed from standardized plans is likely to be, is it historic? A building or structure constructed from a Quartermaster Corps standardized plan is not automatically historic. However, the answer to the question is that any building or structure constructed from standardized plans has the *potential* of being historic. There are two questions to be answered before a building or a structure's historic significance can definitely be established.

b. Physical Integrity

A building constructed from a standardized plan is certainly representative of the formal, organized and large body of design work created by Quartermaster designers and architects. An individual building may also be associated with historic contexts of local, state or national significance (see examples in **Table 5**). The answers to questions about historic importance is often found in the building itself. The first question to be answered is whether or not the building has integrity. Defined as the ability of a property to convey its significance, there are seven aspects of integrity that may apply to a building or structure. A building will "always possess several, and usually most, of the aspects."²³ See **Table 6**.

TABLE 6 – HISTORIC INTEGRITY

| Aspect | Definition |
|----------|--|
| Location | The site where the building or structure was constructed. Except in rare cases the relationship between a building and its historic associations is destroyed if a building is moved. A regimental commander's house, built from standardized plans, and moved from its location with other regimental buildings into a group of similar houses for use as a guest house area would not, therefore, have integrity of location. |
| Design | The combination of elements that create the form, plan, space, structure, and style of a property. The design process, at the time of construction or during alteration, applies to community planning, engineering, architecture, and landscape architecture. Design reflects historic functions and technologies and aesthetics and includes the structural system; massing; arrangement of spaces; pattern of fenestration; textures and colors of surface materials; type, amount, and style of ornamentation; and arrangement and type of plantings in a designed landscape. Removing a gable roof from a 1920 gas station and replacing it with a flat roof would diminish the design integrity of a building. |
| Setting | The physical environment of an historic building or structure. Setting refers to the <i>character</i> of the place in which the property played its historic role. It involves <i>how</i> not just where a building is situated and its relationship to the surrounding features and open space. Setting often reflects the physical conditions under which a building was constructed and the functions it was intended to serve. The way a property is positioned in an environment can reflect the designer's intent and preferences. The long axis of the parade ground at Fort Lewis, for example, is oriented with nearby Mount Rainier at one |

²³ *National Register Bulletin 15 How to Apply the National Register Criteria of Evaluation* (Washington, Department of the Interior, National Park Service, 1991) 45.

| Aspect | Definition |
|-------------|--|
| | end and the Commanding General's house at the other. |
| Materials | The elements that were combined at a particular time or in a particular pattern to construct a building or structure. Materials reflect the choice of those who created the building or structure and indicate availability of particular types of materials and technologies and thereby help define an area's sense of time and place. Rehabilitation is acceptable in historic buildings if the key exterior materials and significant features have been preserved. Reconstructed or replicated buildings do not have integrity of materials. |
| Workmanship | The physical evidence of the crafts of a particular culture or people. Workmanship is the evidence of artisans' labor and skill. Workmanship can apply to a building or a structure as a whole or to its individual components. Vernacular methods of construction, traditional configurations and ornament, and the application of unique technologies are all evidence of workmanship. Other examples include tooling, carving, painting, graining, turning, and joinery. |
| Feeling | A building's expression of the aesthetic or historic sense of a particular time. Feeling results from the presence of features that, taken together, convey historic character. For example, an Army base on one of Alaska's isolated Aleutian Islands that has been deserted since World War II could evoke a sense of Army life in the Aleutian Campaign. |
| Association | The direct link between an important historic event or person and a historic building or structure. Association is present if it is the place where the event or activity occurred and it is sufficiently intact to convey that relationship to an observer. For example, an industrial area containing warehouses built during World War I would retain the quality of association with Quartermaster supply operations if the area and the warehouses have remained intact. Neither feeling nor association alone are sufficient alone to assure that a building or structure has physical integrity. |

c. Historic Significance

Should a building have physical integrity, the second question becomes, does the building or structure have historically *significance*? Historic significance, as outlined in **Table 2**, is determined if a building or structure meets at least one of the four criteria for evaluation and, if applicable, the criteria considerations. Therefore, a building or structure may be considered historic only after it has been evaluated for physical integrity and historic significance and positive answers to both questions are documented. An excellent series of manuals, complete with instructions and examples, are available for installation managers who need to answer these questions. A partial list of manuals published by the Department of the Interior, National Park Service, Interagency Resources Division, Washington, DC includes the following.

Guidelines for Local Surveys: A Basis for Preservation Planning

National Register Bulletin 24

How to Apply the National Register Criteria for Evaluation

National Register Bulletin 15

How to Complete the National Register Registration Form

National Register Bulletin 16A

How to Evaluate and Nominate Designed Historic Landscapes

National Register Bulletin 18

d. World War II Temporary Buildings

The historic significance of World War II temporary buildings built from standardized plans has already been addressed in a comprehensive manner. In 1986, the Department of Defense addressed the problem of World War II temporary wood buildings in a programmatic memorandum of agreement with the Advisory Council on Historic Preservation and the National Conference of State Historic Preservation Officers. As a result of this agreement, amended in 1990, the Department of Defense prepared a history and archival documentation of WWII temporary wood buildings as mitigation prior to removing them. This policy does not apply to World War II temporary buildings that are contributing elements in established historic districts. The report resulting from this agreement is *World War II and the U.S. Army Mobilization Program: a History of 700 and 800 Series Cantonment Construction*, Arlene Kriv, Editor, Department of the Interior, National Park Service, U.S. Government Printing Office, 1993.

4) ORGANIZATION OF INFORMATION IN THIS STUDY

The standardized plans in this study have been divided into eleven major *types*, each containing from one to six sub-types (see **Table 7**). The type designations provide an efficient way to organize the vast number of standardized building designs developed by the Quartermaster Department, and later the Quartermaster Corps. The type designations were developed in *National Historic Context for Department of Defense Installations, 1790-1940*: and, for consistency, are used throughout this study.

TABLE 7--BUILDING TYPES AND DESCRIPTIONS

| Type | Description |
|--|---|
| Administration | |
| 1 a | Fire stations |
| 1 b | Guard houses, sentry boxes |
| 1 c | Headquarters, administration and office buildings |
| 1 d | Post offices |
| Communications | |
| 2 a | Radio buildings |
| 2 b | Telegraph and telephone buildings |
| education | |
| 3 a | Classroom buildings |
| 3 b | Drill and riding halls |
| Health Care | |
| 4 a | Dispensaries, infirmaries |
| 4 b | hospitals |
| Industrial | |
| 5 a | Maintenance and repair shops |
| 5 b | Manufacturing |
| 5 c1 | Bakeries |
| 5 c2 | Laundries |
| 5 d1 | General storage |
| 5 d2 | Storage for ordnance |
| Infrastructure | |
| 6 a | Power plants/electrical systems |
| 6 b | Water and sewage systems and waste incinerators |
| Recreational, Social, Cultural & Religious | |
| 7 a | Assembly halls |
| 7 b | Athletic facilities |

| Type | Description |
|------------------------|--|
| 7 c | Chapels |
| 7 d | Clubs (officer and non-commissioned officers) |
| 7 e | Elementary schools |
| 7 f | Post exchanges |
| 7 g | Theaters |
| Research & Development | |
| 8 a | Laboratories for research and testing facilities |
| Residential | |
| 9 a1 | Bachelor officer quarters and nurses quarters |
| 9 a2 | Barracks, dormitories and civilian housing |
| 9 b1 | Detached lavatories, bathhouses |
| 9 b2 | Mess halls |
| 9 c1 | Non-commissioned officers housing |
| 9 c2 | Officers housing |
| 9 d1 | Garages |
| Transportation | |
| 10 a1 | Airplane hangars |
| 10 b1 | Stables and stable complexes |
| 10 c1 | Gas stations |
| 10 c2 | Motor pools |
| 10 d1 | Railroad related buildings |
| MISCELLANEOUS | |
| 11 a | Landscape Architecture / City Planning |
| 11 b | Typical Buildings and Post Layouts |

A database was developed for this study from information in the sources previously described. It contains data about specific standardized plans developed by the Quartermaster organization from 1866 to 1942. Five sorted tables containing data about individual standard plans, types, Etc., were derived from the database. These are included to help users navigate to useful information about individual standardized plans. Each table contains information under six headings (see Table 8). Because of space limitations, the following abbreviated headings were used in each table:

TABLE 8--LIST OF TABLE HEADINGS

| HEADING | ABBREVIATION |
|--------------|--|
| TYPE | Alphanumeric designation for building type. <i>Types are sorted in ascending numeric order.</i> |
| STD PLAN | Standardized plan drawing number. <i>Not all Quartermaster Corps standardized plan numbers are listed. Sorted in ascending numeric order and thereafter alphabetically.</i> |
| DATE | Date of plan approval. <i>Sorted in ascending numeric order.</i> |
| BUILDING | Building name. <i>Sorted alphabetically by first letter of name.</i> |
| INSTALLATION | Installation where Standardized plan was located. <i>Sorted alphabetically by first letter of name. This is not a complete list of installations where particular plans were built.</i> |
| DRWNG | Copy of standardized drawing included in this study. <i>Inclusion is indicated by "X" in column.</i> |

Each of the five tables contain identical data but the information therein is presented in different

formats. This enables users to easily search for and find specific facts about individual building types in this study. Information in the first table was sorted by Type, the second table was sorted by Standard Plan Number, and so on. In addition to providing a helpful place for researchers to begin looking for information about individual buildings, the tables also serve as an index of the standardized plans included in this study. In the examples below the data are sorted by *Type* (Table 9) and by *Standard Plan Number* (Table 10).

TABLE 9--SAMPLE TABLE SORTED BY *TYPE*

| TYPE | BUILDING | DATE | INSTALLATION | DRWNG | STD PLAN |
|------|-------------------------|------|----------------|-------|----------|
| 5 C1 | Bakery | 1902 | Fort Riley, KS | X | 49-H |
| 5 D2 | Magazine, Post Ordnance | 1934 | Fort Lewis, WA | X | 19-2-70 |

TABLE 10--SAMPLE TABLE SORTED BY *STANDARD PLAN NUMBER*

| STD PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------|-----------------|------|-----------------|-------|------|
| 152 | B.O.Q. | 1902 | Fort Riley, KS | X | 9 A1 |
| 152-B | B.O.Q. | 1904 | Fort McPherson | X | 9 A1 |
| 152-E | Nurses Quarters | 1906 | F.E. Warren AFB | | 9 A1 |

5) USER'S MANUAL: HOW TO USE THE TABLES AND BUILDING TYPE CONTEXT STATEMENTS

a) A Practical Guide to This Study

Users of this study wishing to research a building on an Army or a former Army Air Corps post may begin by gathering basic information about the building. If the historic name of the building is known (Artillery Gun Shed, Hospital Corps Barracks, Stable, Etc.) or the number of the standardized plan from which it was built (120-F, 209, 610-233, 800-652, and so on), the tables sorted by *NAME* or *PLAN NUMBER* in Section 3 should be checked to see if the building has been listed under these categories. Researchers may also examine the table in Section 3 sorted by *DATE*²⁴. At this point, the user may find two items of useful information. The building's type will be found under the *TYPE* heading. Also, an "X" under the *DRWNG* heading will indicate that a copy of the drawing is included in the study.

If neither the name, plan number nor date is known, or if the building is not listed under any of the types and sub-type categories, users should decide which type and sub-type best describes the building. For example, the database includes many types of infirmaries but it was not possible to include all versions of standardized infirmary plans. Also, not all building types are included. Barracks for World War II prisoners of war, for example, are not specifically included as a type, but since these barracks were built from standardized plans they may be found under the "barracks" type, 9A2.

Upon isolating a type, by using the methods described above, users may turn to that particular building type context section of this study. Context statements for building types are located in

²⁴ This table is included to provide users with an overview of the range and distribution of dates covered in this study. Since the date of construction is later than the date on which the building's design was approved, researchers using this approach will be guided by an imprecise range of dates.

the section of this study. The alphanumeric symbols used as type designators are also used as a numbering system for context statements for individual building types located in the Section 2 of this study. Users will find a considerable amount of information about individual types here, also representative photographs and drawings. Information about each type is organized under the following headings in **Table 11**:

TABLE 11--HEADINGS USED IN TYPE CONTEXT STATEMENTS FOR INDIVIDUAL BUILDINGS

| HEADING | DESCRIPTION |
|-------------|---|
| DESCRIPTION | Information having to do with a type's function, location, massing and materials |
| EVOLUTION | Information on the development of a type's standardized plans and its versions |
| ASSOCIATION | Addresses issues contained within the National Register Criteria of Eligibility, A-D, and the Criteria Considerations |
| INTEGRITY | Addresses how to determine physical integrity for a particular building type. |

b) Integrity, Significance and the National Register of Historic Places

As noted, the key to determining if a building has integrity and significance lies in understanding and applying the *qualities* of integrity and the *criteria* of eligibility. Essentially guidelines, an understanding of a property's integrity and significance provide a framework by which any property can be evaluated. These guidelines exist to assure a uniformly fair evaluation for any building. It is important to note again that because a building was constructed from standardized plans does not mean it will be considered historic unless it has been evaluated within this framework and a positive analysis is obtained.

The responsibility for the identification, initial evaluation, nomination, and treatment of federal historic resources lies with installation commanders and state historic preservation offices. A consultation process between installations and state historic preservation offices is outlined in Army Regulations 200-4 (Chapter 2, Cultural Resources Compliance Requirements) 31 July 1996). The procedures for identification and nomination of federally-owned or controlled Army historic properties for listing in the National Register of Historic Places is given in AR 200-4, Chapter 3, Section 2.

Those properties that were built from standardized plans which are demonstrated to possess sufficient integrity and significance to be considered historic under provisions of the National Historic Preservation Act of 1966, as amended, are eligible for listing in the National Register of Historic Places. Maintained by the National Park Service, the National Register of Historic Places is the official list of recognized historic properties. The National Register documents the appearance and importance of districts, sites, buildings, structures and objects significant in our prehistory and history. It recognizes properties of local, state or national significance in American history, architecture, archeology, engineering and culture that are worthy of preservation.

The final evaluation and listing of properties in the National Register is the responsibility of the Keeper of the National Register. Installation commanders or their appointees who must decide if a federal property qualifies for the National Register of Historic Places should consult these

publications for guidance in actively dealing with issues of integrity and significance.

How to Apply the National Register Criteria for Evaluation

National Register Bulletin 15, National Park Service, Washington, DC

How to Complete the National Register Registration Form

National Register Bulletin 16A, National Park Service, Washington, DC

How to Complete the National Register Multiple Property Documentation Form

National Register Bulletin 16B, National Park Service, Washington, DC

6) RESEARCH AT THE NATIONAL ARCHIVES:

A number of Record Groups (RG) at the National Archives were of use in learning about and finding QMC standard plans. Researchers will find additional information about the contents of various record groups in the bibliography section. The principal Record Groups which contain information about standardized plans are

RG 92 - Office of the Quartermaster General

RG 107 - Office of the Secretary of War

RG 77 - Office of the Chief of Engineers

RG 336 - Office of the Chief of Transportation

The National Archives, normally a comprehensive source of valuable information, for the most part did not lend itself to research *for this project*. The Archives staff was unfailingly helpful and cooperative and the services of this modern facility were easy to use. In an effort to minimize the time and cost of reproducing drawings held at the National Archives, permission was secured to copy drawings using hand-held 35mm photography without flash. The results were disappointing. (See **Figure 9**) Most drawings were sealed into archival sleeves and neither could, nor should they, be removed from these holders. The sleeves have a very high, glossy finish which caused disappointing reflections in almost every photograph. A very few plans were not yet encased in archival envelopes, photographs of these plans were successful.

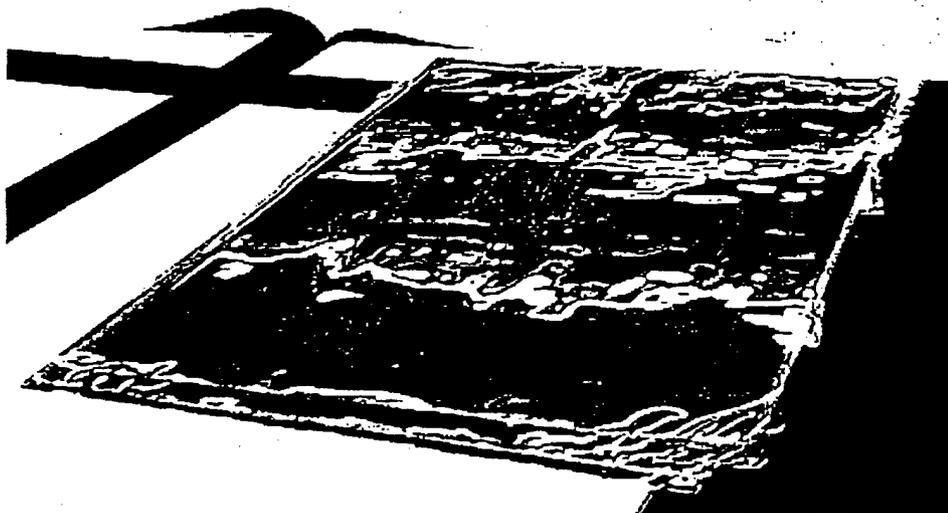


Figure 9. View of QMC standardized plan sealed into protective envelope in the holdings of the National Archives. Note reflections from overhead lights and effect on photograph.

7) ASSISTANCE FROM INDIVIDUAL POSTS:

Research at or letters requesting copies of standard plans and/or historic surveys were sent to the following installations:

| | | |
|------------------------------|-------------------|--------------------|
| Aberdeen Proving Ground | Fort Gillem | Fort Monroe |
| F.E. Warren AFB/Fort Russell | Fort Huachuca | Fort Riley |
| Fort Belvoir | Fort Leavenworth | Fort Sam Houston |
| Fort Benning | Fort Leonard Wood | Fort Sill |
| Fort Bliss | Fort Lewis | Schofield Barracks |
| Fort Bragg | Fort McPherson | Watervliet Arsenal |
| Fort Chaffee | Fort Meyer | |

While some posts could not assist, others had sufficient material on hand (building inventories, surveys, National Register of Historic Places nomination forms, Etc.) that they could send copies.

8) TRANSFERRING FILES VIA THE INTERNET

An efficient compromise was found that could lift the burden from individual posts. In this matter, cooperation from Fort Riley was outstanding. At that post, approximately 2,000 historic Quartermaster Corps drawings had been scanned and stored as individual digital files. These files were imported, via the Internet, to the Seattle District. This was a very lengthy and time-consuming process involving making and maintaining modem connections between a work station in the Seattle District's Architecture Section, Seattle's Engineering Local Area Network (LAN) and the Fort Riley LAN.

Files were stored at Fort Riley in a .CIT graphic software format which is not compatible with the Seattle District's drafting software. Fortunately, the files could be read using I/RAS-B software, thereby adding an extra step to a complicated operation. The transfer and translation process was very time-consuming, but benefited the study in two ways:

- QMC files were cleaned by deleting patches of gray and meaningless dots copied with the original drawings. This also took additional time but the results were often worth the effort, particularly when information was revealed under the "chaff".
- The clean drawings have been plotted onto 8.5"x11" paper, an ideal size for three-ring binders and well suited for use on standard copying machines and scanners.

C. QUARTERMASTER CORPS HISTORIC CONTEXT:

1) OVERVIEW OF THE QUARTERMASTER CORPS HISTORY: 1775 TO 1942

The story of the Quartermaster Corps begins in 1775, when the Continental Congress established the Quartermaster's Department as the Army's supply agency. The Department's mission was to transport troops, construct buildings, store and issue supplies and support armies in the field. It was abolished after the Revolutionary War and its former supply duties undertaken by civilian contractors. Until 1812, the Quartermaster's responsibilities were managed by a "kaleidoscopic succession of quartermasters, contractors, and agents variously named" and supervised by either the departments of Treasury or War.²⁵

During the War of 1812, the Quartermaster's Department was re-established. It took on transportation and construction duties, although sharing the supply role with the Commissary General of Purchases. In 1818, a separate Subsistence Department, responsible for providing the Army with food, came into operation under a Commissary General. By 1826, the Army's supplies followed a circuitous route: the Commissary General of Purchases procured the Army's clothing and equipment, transferred these supplies to the Quartermaster's Department, which distributed them to troops. It was not until 1842 that the Commissary General of Purchases was absorbed by the Quartermaster Department and its main depot²⁶ "became the cornerstone of the great system of Quartermaster Depots."²⁷

Until the appointment in 1818 of Lt. Col. Thomas Jesup, the position of Quartermaster General only existed in time of war. During his 42-year long administration, the Department grew to become a permanent staff agency for the War Department. Largely improvised during these early years, facilities at posts (particularly near the Indian campaigns) were generally built by troops to plans designed by the garrison commander. The Department's organization during this period developed slowly although the Department recognized "the importance of established depots to the movement and distribution of supplies over long distances."²⁸ Between 1820 and 1840, the Quartermaster's Department and the Army Engineers both built military roads. Roads in Louisiana and Arkansas were completed and the highlight of the Department's road building was the great military road of 1836, championed by Jesup. Completed in 1841, this road connected a line of posts along the frontier between the Indian and white settlements from the Upper Mississippi River to the Red River in the south.

The Civil War marked the country's first experience with large-scale mobilization efforts requiring the nation's attention. Responding to this challenge, the Quartermaster General's office established a "commodity-type" organization to supply the Union Army through a depot system. This system was characterized by the purchase and distribution of specific types of

²⁵ Risch, Erna, *The Quartermaster Corps: Organization, Supply and Services, Volume I* (Washington, D.C.: Office of the Chief of Military History, United States Army, 1953), 3.

²⁶ The Schuylkill Arsenal became the Philadelphia Quartermaster Depot. Army clothing was procured and made there for more than a hundred years.

²⁷ Risch, Volume I, 4.

²⁸ Risch, Volume I, 4.

supplies (commodities) that were handled by *separate* Quartermaster branches. During the Spanish-American War, organization broke down under the pressure to supply an army struggling to function at ten times its pre-war size. In an effort to fix the problem, in 1912, the Army consolidated the Subsistence, Pay, and Quartermaster's Departments into the Quartermaster Corps. Not only did this place these functions in a single, centralized agency with a new name, it also gave the Corps responsibility for feeding and paying the Army. Prior to 1912, the Department had also been charged with managing the Army's real estate actions, running its utilities, and other tasks including the operation of national cemeteries.

Essentially unchanged, the commodity-type organization was maintained by the Department until World War I. By then the organization of the Office of the Quartermaster General had evolved to include five divisions: Administrative, Finance and Accounting, Construction and Repair, Transportation, and Supplies. At installations, post and camp quartermasters distributed supplies received from territorial department quartermasters who, in turn, received supplies from seven general depots and several specialized depots²⁹ where supplies were procured.

A major difficulty encountered early in World War I was overloading at storage facilities at east coast ports. Long lines of loaded railroad cars were left for days on railroad sidings leading to ports, creating back-ups and making a near-impossible task out of finding critical supplies to load onto ships. Later, when additional warehouses were built and leased, these delays became a thing of the past. Also helping to dilute the commodity-focused organization was the institution of a zone system that assigned geographic areas to depots. This restructuring allowed Quartermaster depots to supply posts in their region with all supplies instead of a specialized few. After the war, however, the zone system was abandoned.

During World War I, the construction function was transferred from the Quartermaster Corps to a separate Cantonment Division and water-borne transportation was taken over by the Embarkation Service. While the organization was now decentralized, it had also reverted to a commodity-centered one which remained in place during World War I. Faced with a desperate need for centralization to effectively meet the demands of manufacturing for the Allies, for the government, and for the civilian population, the War Department temporarily reorganized all the supply bureaus under the General Staff "along functional lines." At the end of the war, the Quartermaster Corps became part of the Purchase, Storage and Traffic Division

The National Defense Act of 1920 re-created the Quartermaster Corps as a separate service and restored the construction and transportation responsibilities, but not the pay function. The organization was to remain firmly commodity-centered for the next two decades. Organized now into four divisions (sometimes called "services"), these were: Administrative, Supply, Construction, and Transportation. Both the Construction and Transportation divisions were established as self-contained, independent agencies so they could adapt to future national emergencies. Faced with lean inter-war years and reduced military budgets, the Quartermaster Corps slid from a position of war-readiness to one suited to taking care of peacetime business. There was no single agency to supervise operations and, in the depots, the emphasis was on

²⁹ These included the Boston Depot for footwear, and the Jeffersonville Depot for wagons and harness.

accountability of supply officers for property in their control rather than efficient storage and evenhanded distribution.

In 1939, as World War II began in Europe, the Quartermaster Corps remained organized along commodity lines. Although the Corps strength (and its responsibilities) expanded to keep up with the tremendous growth of the Army, the organization remained commodity-based until around the time of Pearl Harbor. Accustomed to supporting a peacetime Army and faced with supplying a war that would be fought with new technology, "supply problems grew more complex and modern methods of warehousing had to be adapted to the Army."³⁰ In 1940, there were twelve Quartermaster depots; only two were located west of the Mississippi River (see Table 12). The depot system was reorganized and divisions made responsible for the procurement, storage or distribution of nearly all types of supplies. In 1941, the Depot Division was created to develop standard practices and coordinate depot activities on a nation-wide basis.

TABLE 12--QMC DEPOTS IN 1940³¹

| | |
|--|----------------------------------|
| Boston Quartermaster Depot | New Orleans Quartermaster Depot |
| Chicago Quartermaster Depot | New York General Depot |
| Columbus General Depot | Philadelphia Quartermaster Depot |
| Eighth Corps Area Depot (Fort Sam Houston) | San Antonio General Depot |
| Jeffersonville Quartermaster Depot | San Francisco General Depot |
| New Cumberland General Depot | Schenectady General Depot |

Until mid-1942, the Depot Division worked closely with the Construction Division in planning and designing a new, larger depot system to deal with dramatic changes the Army was making in response to the national emergency. New buildings were either constructed or leased, although leasing was avoided whenever possible as it generally meant costly remodeling, questionable fire protection and sometimes poor locations for access to rail and ship facilities.

Single-story warehouses were designed to accommodate railroad cars "with loading platforms level with the car floor on one side ...and docks for truck loading and unloading on the other side."³² These buildings were generally designed with unlimited floor load ratings and high ceilings to allow stacking materials in tiers, and the operation of forklifts. Large, flat undeveloped areas or small towns were preferred to urban sites so great numbers of warehouses could be built and widely separated for fire prevention. The Construction Division, faced with an urgent need for many buildings completed quickly and on time, used cost-plus contracts to expedite building depots. Despite shortages of critical materials like steel, and occasional labor disputes, the Construction Division completed much of the expansion program by mid-December 1941, when all construction was turned over to the Corps of Engineers.

At the peak of World War II, the Quartermaster Corps supplied nearly 8,000,000 Army men and women with food, clothing, shelter, equipment and general supplies. It also provided the Navy,

³⁰ Risch, Volume II, 323.

³¹ Risch, Volume II, 331.

³² Risch, Volume II, 333.

Marine Corps, Coast Guard, War Shipping Administration and even the Lend-Lease program³³ with supplies. Procurement of subsistence (food) was done at a national level. Research laboratories were established to apply science and technology to the war effort, and new methods were developed for efficient procurement, storage and distribution of materials.

2) ARCHITECTURAL STYLES

It is hardly surprising that Quartermaster designers used several popular architectural styles in developing standardized plans, just as their civilian counterparts designed buildings in popular styles to please clients, developers and speculators (see **Table 13**). For example, following close on the boisterous Victorian era of the late 1800s, the Colonial Revival style gained popularity as a wave of patriotism, combined with an increasingly mature national awareness and a desire to return to the “good old days” swept the country. If the middle class was attracted to Colonial Revival buildings, new in the 1890s and 1900s, so were the architects who designed them for the Army and the members of congress who appropriated funds for their construction. Quartermaster designers, however, generally exercised a restrained hand in applying styles to their buildings and structures. Many construction projects were driven by a need to economize on costs and to stretch funding as far as possible. Also, the Army was a naturally conservative client and neither wished for nor was likely to pay for flamboyant designs. There were exceptions, but more often than not, these exceptions simply proved the rule³⁴.

Users of this study should refer to published works on American architectural styles for guidance on applying these labels to buildings or structures.³⁵ Architectural styles have evolved as useful ways of describing architecture and characterizing the philosophy and beliefs of a period that gave birth to a particular style. By nature imprecise, architectural styles define broadly the

³³ After Roosevelt's re-election in 1940, the President announced a policy of “all-inclusive national defense” and committed his support to “all those resolute peoples, everywhere, who are resisting aggression and are thereby keeping war away from our Hemisphere.” [Samuel I. Rosenman, *Franklin D. Roosevelt, The Public Papers and Addresses, Volume IX* (New York, The Macmillan Company & Harper & Brothers, 1940) 666-667.] Congress passed the Lend-Lease Act and the President signed it into law on March 11, 1941. Initially designed to provide Great Britain with military aid, the Lend-Lease program was eventually extended to other European nations and to many other countries world-wide. The Act empowered the president, “in the interests of national defense,” to “manufacture ...or otherwise procure ...any defense article for the government of any country whose defense the president deems vital to the defense of the United States.” [Raymond H. Dawson, *The Decision to Aid Russia, 1941* (Chapel Hill, North Carolina: The University of North Carolina Press, 1959), 9.] The Soviet Union was the recipient of the bulk of Lend-Lease aid, including over 8,000 aircraft, 3 million tons of steel, 4 million tons of copper, and ships, trucks, tanks. The USSR also received non-military items such as “cigarette cases, records, women's compacts, fishing tackle, dolls, playground equipment, cosmetics ...and even 13,328 sets of false teeth.” In 1944, “two percent of the nation's food supply was exported to the Soviet Union, four percent to other Lend-Lease recipients, 1 percent in commercial exports and 13 percent to the United States military.” [Alexander B. Dolitsky, “the Alaska-Siberia Lend-Lease Program”, *Alaska at War* (Anchorage: Alaska at War Committee, 1995), 333-338.]

³⁴ The Administration Building (No. 100) known as “The Taj Mahal” at Randolph Air Force Base, Texas is one such example.

³⁵ The following style guides are among many excellent published works. Poppeliers, John C.; Chambers Jr., S. Allen; and Schwartz, Nancy B., *What Style is it?*, (Washington, DC, National Trust for Historic Preservation, 1983). Massey, James C. and Maxwell, Shirley, *House Styles in America* (New York, Penguin Studio, 1996). McAlester, Virginia and Lee, *A Field Guide to American Houses*, (New York, Alfred A. Knopf, 1984).

TABLE 13--SUMMARY OF ARCHITECTURAL STYLES AND PERIODS
USED IN SOME QUARTERMASTER BUILDING TYPES

| TYPE | ARCHITECTURAL STYLE | DATE |
|--|---------------------------|-------------|
| Guard Houses, Gatehouses, Sentry Boxes | Late Victorian | 1880-1890 |
| | Colonial Revival | 1900s |
| | Georgian Revival | 1920 - 1930 |
| | Spanish Colonial Revival | 1920 - 1930 |
| Headquarters, Office and Administration Buildings | Late Victorian | 1880 - 1890 |
| | Colonial Revival | 1894, 1900s |
| | Georgian Revival | 1930s |
| | Spanish Colonial Revival | 1930s |
| | French Colonial Revival | 1930s |
| Hospitals | Victorian Elements | Late 1800s |
| | Colonial Revival | 1900s |
| | Spanish Revival | 1900s |
| Chapels | Gothic Revival | 1850-1903 |
| | Neoclassical | 1900s |
| | Gothic Revival | 1930s |
| | Georgian Colonial Revival | 1930s |
| | Spanish Colonial Revival | 1930s |
| Post Exchange | Georgian Revival | 1920 + |
| | Spanish Colonial Revival | 1920 + |
| Bachelor Officers Quarters & Nurses Quarters | Victorian | 1880-1890 |
| | Colonial Revival | 1894-1940 |
| | Spanish Colonial Revival | 1911 |
| | Georgian Revival | 1930s |
| | Romanesque | 1880-1890 |
| NCO Housing | Queen Anne | 1880-1890 |
| | Bungalow | 1926 |
| | Spanish Colonial Revival | 1930s |
| | Georgian Revival | 1930s |
| Officer Housing | Georgian Revival | 1860 |
| | Italianate | 1880-1890 |
| | Romanesque Revival | 1880-1890 |
| | Queen Anne | 1880-1890 |
| | Colonial Revival | 1890-1910 |
| | Spanish Revival | 1890-1910 |
| | French Provincial | 1930s |
| | English Tudor Revival | 1930s |
| | Bungalows | 1930s |
| | Art Moderne | late 1940s |

attributes of a style, but their interpretation is ultimately left to the researcher. Styles are visually determined and are not related to use or function: officer housing, administration buildings and chapels may all be built in a single style. Even published definitions of architectural styles contain inconsistencies. What one author may simply term "Victorian", another defines, with greater clarity, as Second Empire, Romanesque Revival, Queen Anne, Stick and Shingle Style, and Mail Order Designs (see Table 14). Styles have also regained popularity after periods of disuse. The Georgian (1740-1790) and Spanish Colonial (1565-1797) reappeared in altered form in the Georgian Revival (1859-1920) and Spanish Colonial Revival (1915-1930). Even the dates assigned to styles only define when they were in popular use and should be viewed as

guideposts, indicating when a style appeared and when it generally fell from public favor. Also, the periods when styles were in popular use tend to overlap and do not begin and end in a linear fashion. Finally, builders and architects in some localities often continued to use a particular style when it was no longer widely used elsewhere.

TABLE 14--CHRONOLOGY OF ARCHITECTURAL STYLES

| STYLE | DATES | USED EXTENSIVELY BY THE QUARTERMASTER |
|---------------------------|--------------|--|
| Colonial | 18th Century | |
| Georgian | 1740-1790 | |
| Federal & Roman | 1790-1830 | |
| Greek Revival | 1820-1860 | |
| Gothic Revival | 1830-1875 | X |
| Italianate | 1840-1890 | X |
| Second Empire | 1855-1885 | |
| Romanesque Revival | 1870-1900 | X |
| Queen Anne | 1870-1910 | X |
| Stick & Shingle | 1870-1905 | |
| Beaux Arts | 1880-1940 | |
| Colonial Revival | 1890-1940 | X |
| Bungalows & Arts & Crafts | 1900-1930 | X |
| Prairie Style | 1897-1921 | |
| Builder Style | 1895-1930 | |
| French Revival | 1915-1940 | |
| Spanish Colonial Revival | 1890-1940 | X |
| Art Deco | 1920-1950 | X |
| International Style | 1935-1950 | |

Even within styles, a certain amount of blending is found as designers took inspiration from a preceding style. The Queen Anne style, for example, borrowed elements of Georgian and Federal styles; the "Victorian" styles mentioned above (1860-1900) borrowed heavily from the Medieval period. Even within the Victorian era, styles tend to overlap and are not so distinctly different as the preceding Greek, Gothic and Italianate styles (1820-1880). Not all buildings are easily characterized as being of one particular style, although it is generally possible to pick out elements that identify a building as belonging predominately one style.

3) 1866 TO 1890: FIRST PERIOD OF STANDARDIZATION

From 1860 to 1890, the Army began its evolution into a modern military force as it abandoned its small temporary frontier posts and consolidated troops into larger regional installations. The need for new, larger, permanent installations required a higher degree of planning and design for buildings as well as post site plans. Building and post designs benefited from the Quartermaster Department's efforts to begin improving living standards by integrating water, sewage and heating systems into the design process. Post layouts expanded with the Army's new housing provisions for hospital stewards and non-commissioned officers. When the Army began to contract work to civilian architects at posts near urban areas, mid-nineteenth century American architecture and planning began to influence both Army building and post designs. Buildings incorporated simplified versions of nationally popular architectural styles such as Italianate,

Romanesque Revival, and Queen Anne. Installation planning was influenced by national trends in suburban design as some posts began to incorporate curving residential streets and large open spaces into their site plans.

In the 1860s, and parallel to the Army's rapid expansion, a movement began within the Army to standardize plans and designs, making construction more cost-effective and efficient. The first Army standardized plans were developed in 1861 "when the U.S. War Department published *Regulations Concerning Barracks and Quarters for the Army of the United States*."³⁶

Unfortunately, these regulations were never adopted. However, attention was given to developing standardized barracks plans and a design by Henry Roscrans developed in 1847 was used as a standard plan. In 1863, Army regulations

gave 225 square feet per man for posts located north of 38 degrees North latitude and 256 square feet per man for posts located south of that line. The height of the rooms was to be 10 feet, giving a man north of 38 degrees north latitude 375 cubic feet of space and a man south of 38 degrees North latitude 426 cubic feet. If, however, the number of officers and soldiers made it necessary, a commanding officer could reduce these amounts--and he usually did.³⁷

Grashof, writing in *A Study of United States Army Family Housing, Standard Plans, 1866-1940*, notes that standardized plans for family housing for officers and non-commissioned officers were developed around 1866 as part of a large series "which included plans for a school house, mess hall, bakery, jail, chapel and barracks."³⁸ The financial situation in the Quartermaster Corps was generally so poor that Quartermaster Generals "continually complained of having too little money to provide the necessary quarters for the Army."³⁹ It was these conditions that led Quartermaster General Montgomery C. Meigs to write in 1872: "...[I] have now, I believe, succeeded in developing a set of plans for every military post...Standardized plans for temporary barracks and quarters at military posts in the west have been prepared and distributed."⁴⁰ Meigs' plans were widely distributed and, as Grashof notes, built not only in the west but at Governors Island and Madison Barracks in New York and at Fort Adams, Rhode Island. It is not known who did the actual design work but, as Grashof indicates, they were probably developed by technical staff within the Quartermaster General's Office. At the western posts, which were considered temporary by the Army, the War Department preferred "to keep the troops in cantonments, occupying quarters they themselves constructed from local materials."⁴¹

During this period, standardized plans were not used universally by the Army as "much of the standardization at this time took place within regional military departments. The Departments of the Dakota and the Platte seem to have been especially active and many of their designs were

³⁶ Grashof, 9. Quoting U.S. War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States* (Washington: George W. Bowman, 1861).

³⁷ Risch, 733.

³⁸ Grashof, 9.

³⁹ Grashof, 9.

⁴⁰ U.S. War Department, *Annual Report of the Secretary of War*, 1872.

⁴¹ Risch, 487.

variations on Meigs 1872 plans."⁴² (Figure 10.) There is evidence that builder's handbooks, also known as pattern books, were used as source books by the Quartermaster design staff.

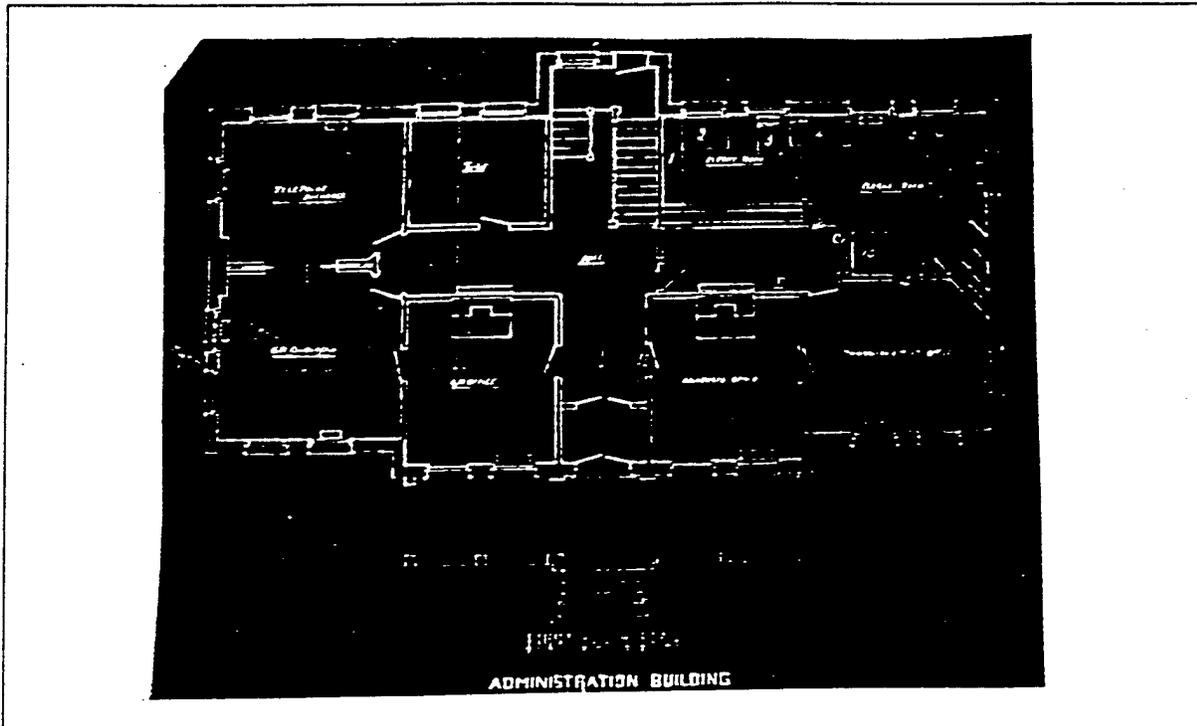


Figure 10--Plans by the Department of the Dakota for an Administration Building, based on Quartermaster General Meigs plans.

Throughout the 1880s, the Army was criticized for its poor living conditions. The Surgeon General's Office viewed the inadequate quarters, heating, ventilation and sanitary systems with strong criticism. Facing increased construction costs and armed with insufficient funds, the Quartermaster Department undertook "an ambitious program of standardization."⁴³ This effort came at a time when the Army was considering abandoning the temporary western posts and concentrating troops in large, permanent ones.

a) Army Post Development. Layout and Styles:

From the beginnings of post development and layout, Army posts throughout the country reflected many different landscape designs as well as architectural styles. In many cases, the preferences of an individual post commander greatly influenced the layout and design style of a particular post.

The layout of early frontier posts (1790-1875) was primarily dictated by the need for protection as the Army moved to secure the interior of the nation and its borders. Most of these posts were small temporary frontier garrisons, and while they varied in design and style according to available materials and the post commanders' influence, they conformed to a general

⁴² Grashof, 19.

⁴³ Grashof, 28.

arrangement. Early posts of the old Northwest (now Ohio, Indiana, and Wisconsin) usually had an encircling wooden defensive wall, corner blockhouses, and quarters, storage and shop buildings within (Figure 11).



Figure 11—Fort Laramie, 1842. National Archives.

After the frontier moved west of the Mississippi, the spatial arrangement of frontier posts evolved. Gradually the palisade disappeared as a protective fortification. The parade ground became more pronounced as the center of the post with barracks, officers' housing, and administrative buildings surrounding the parade ground. Various service areas were located apart from the central parade ground: an infirmary or hospital; guardhouse; agricultural fields; and, shops. Stables for cavalry troops were located close to the barracks, while corrals and storage facilities were located apart from main parade ground area."⁴⁴ Fort Riley, Kansas is a good example of a typical frontier post plan (Figure 12.)

⁴⁴ Goodwin and Associates, 154.

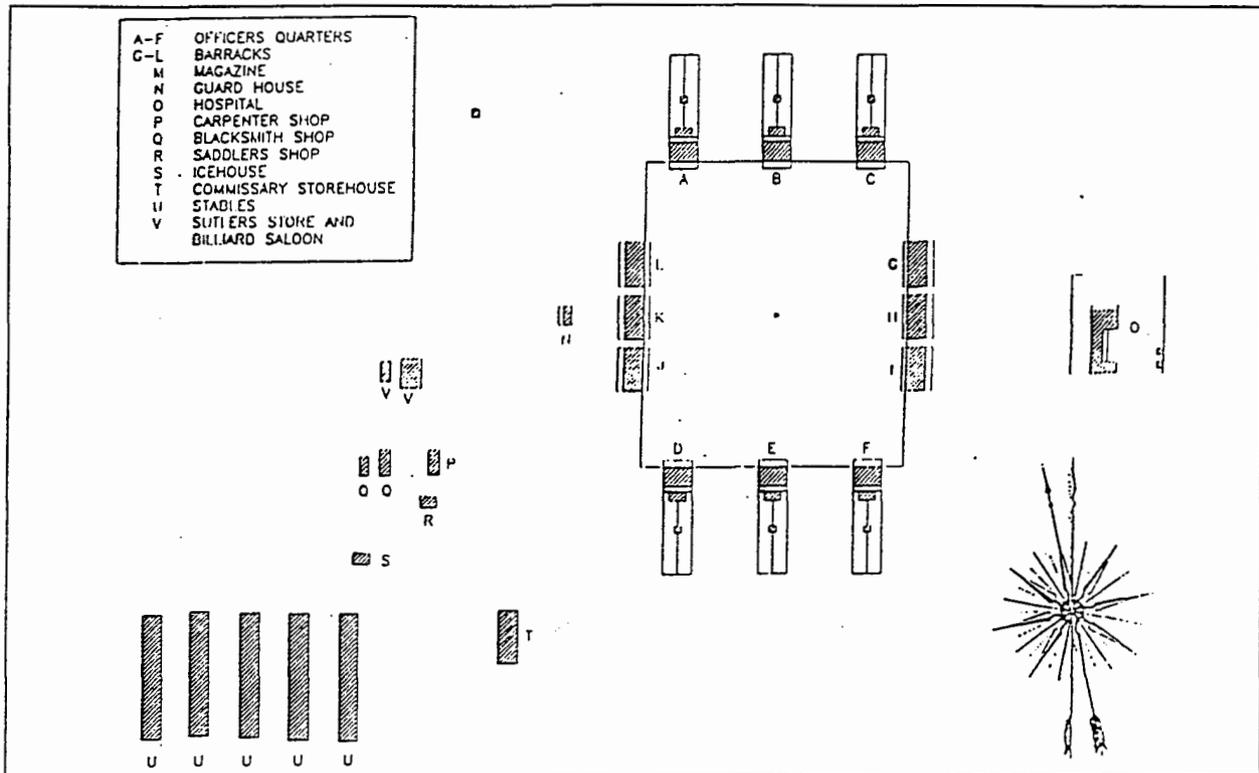


Figure 12--Layout of Fort Riley, Kansas, showing the typical arrangement of buildings at western frontier posts.

To date, the only evidence of efforts to standardize Army post plans during the Frontier Post era are found in unofficial 1860 regulations. These regulations suggested the following arrangement of a four company garrison (Figure 13):

Plan of a Garrison. Officers' quarters, chaplain's quarters, and officers' mess on one line, facing a parade ground open at both ends and varying in breadth at different posts, according to the ground and other circumstances, from 250 to 400 feet; all other buildings on the other side from the officers' line, and in positions to be presently described. On that side an avenue 220 feet wide extending outward perpendicularly from the parade ground, will separate the troops from the supplying departments another avenue 200 feet wide, parallel to the first, and 300 feet from it, will separate the supplying departments from the sutler's establishment and the hospital ground...⁴⁵

⁴⁵ Ibid., 154

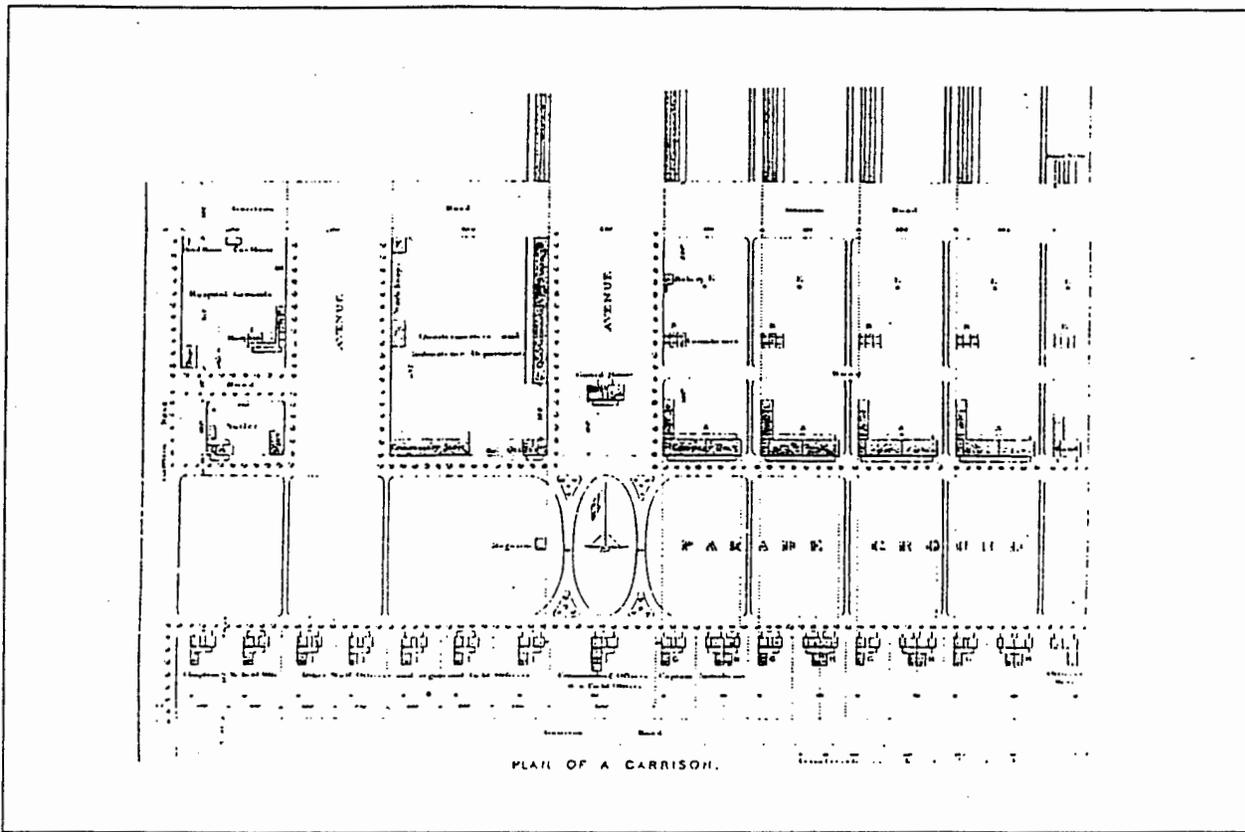


Figure 13--Proposed plan for a typical garrison, 1860. (From U.S. War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860* [Washington, DC: George Bowman, Printer, 1861.]

Landscape character-defining features depicted on the 1860 proposed standardized plan include overall organization (site plan-buildings, roads, parade ground), land use areas (quarters, administration, supply areas, medical, etc.), building clusters, and vegetation (trees line several roads and the perimeter of the parade ground).

Although the 1860 regulations were not officially adopted, according to sketch maps in an 1876 Army publication, *Outline Descriptions of the Posts in the Military Division of the Missouri*, the overall arrangement and layout of existing posts appeared to follow the 1860 guidelines.⁴⁶

From the 1880s and into the 1890s, Quartermaster designers used the Victorian style for administration buildings. Simplified versions of Romanesque and Queen Anne styles were applied to barracks during this time period.

4) SECOND PERIOD OF STANDARDIZATION: 1890 - 1917

By the 1890s, as the nation mobilized for the Spanish American War and continued to fight in the Philippines, the Army's size grew from around 25,000 troops to an average of 65,000, a

⁴⁶ Goodwin, pp. 154.

number that held steady for the next decade. During this period of rapid growth, the Army's needs for permanent buildings increased proportionally. Review boards examined 65 existing posts to determine how many the Army needed to keep. Fifty-two posts were to be kept permanently, the remaining 13 to be occupied temporarily and 7 new posts were recommended. In 1903, the Quartermaster Corps increased the number of architects and draftsmen of its Construction Division "and hired an experienced architect to direct the revision of drawings and improve the general appearance of the buildings."⁴⁷

Annual Reports of the Quartermaster General for this period indicate a growing concern with rising construction costs and a preoccupation with lowering new construction costs. From 1902 to 1905, construction costs rose 36%, and in the next year jumped an additional 12%. Large timbers, lumber, and wood flooring were replaced by concrete and iron construction. New systems of heat, water, and sewerage and electric or gas lighting "added to construction costs but provided for modern, comfortable accommodations."⁴⁸

To manage these changes and reduce new construction costs, existing plans were rearranged and wasted space eliminated to create smaller buildings "without sacrificing convenience".⁴⁹ Exterior detailing was modified and plans changed so materials of standard dimensions could be used. After 1910, a 33% savings was sustained by using concrete instead of brick. This period is characterized by the appearance of some standardized plans, but no regional variations were incorporated. There was the option to use either brick or wood frame and there were occasional stone or concrete variations. The same building was offered and built wherever there were Army posts.

During this period and the early part of the next, civilian architects often used styles popular at the time, simplifying these styles for the Army's taste and budget: Italianate, Romanesque Revival and Queen Anne. Site layouts at posts were also effected by civilian architects like George E. Pond and William Goding at Fort Riley, Gustav Freibus at Fort McPherson, Holabird and Roche at Fort Sheridan, E.T. Carr at Fort Leavenworth, F.J. Grodavent at Fort Logan, and Alfred Giles at Fort Sam Houston.⁵⁰

a) Army Post Development, Layout and Styles:

During the second period (1890 - 1917), the Army still lacked a clearly articulated policy for post planning. Design elements from landscape architecture appeared in post layouts during this time, but while Army Regulations of 1904 specified that posts should be aesthetically pleasing, "they did not provide further guidance as to what constituted an attractive post."⁵¹

Between 1890 and 1915, national city planning and design themes were increasingly reflected in

⁴⁷ Catherine C. Lavoie, *Wright Patterson Air Force Base, Brick Officers' Quarters* (Washington: Historic American Engineering Record, HAER NO. OH-103, 1994), 8-21.

⁴⁸ Risch, 582.

⁴⁹ Grashof, 34.

⁵⁰ Goodwin and Associates, 176.

⁵¹ *Ibid.*, 181-182.

Army design efforts as military planners worked to improve living conditions for personnel. Design precedents from the Beaux Arts movement such as the formal site plans and classically-inspired architecture were introduced by civilian architects; some of whom, for the first time, were employed by the Quartermaster Department rather than being hired under contract. At the War College at Washington Barracks (now Ft. McNair in Washington, D.C., and the U.S. Military Academy at West Point, New York, private architectural firms prepared comprehensive site plans which exemplified the Beaux-Arts planning principles such as formal symmetrical building layouts arranged around axes (Figure 14).

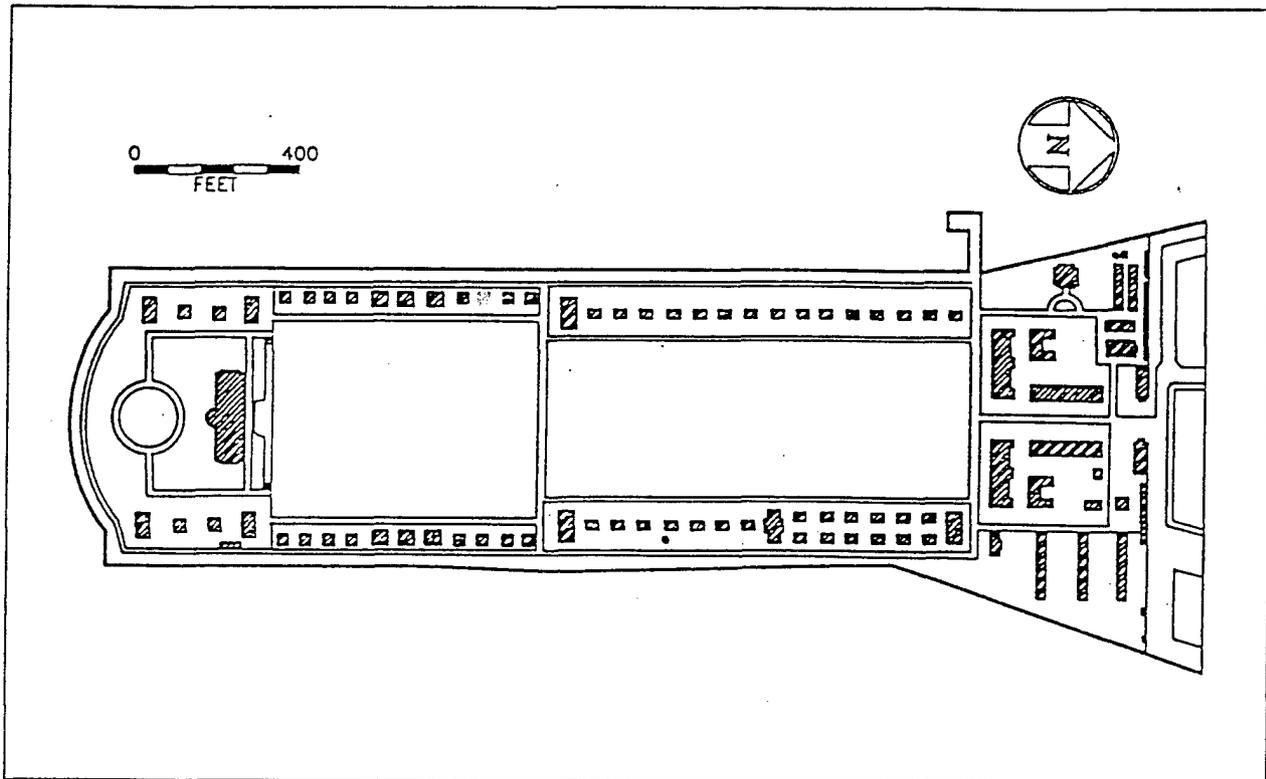


Figure 14--Charles McKim, of McKim, Mead and White, designed the Army War College and Engineers Post.

In 1894, Quartermaster Department designers began using the Colonial Revival and Classical Revival architectural styles for administration buildings and, in the Southwest, a Spanish Colonial Revival style was introduced. The Colonial Revival style was also used in the construction of barracks between 1900 and 1917. The Spanish Colonial Revival was applied in 1911 to barracks which were built at the Presidio in San Francisco, California; Fort Sill in Oklahoma; and Fort Missoula in Montana.

5) THIRD PERIOD OF STANDARDIZATION: 1917 TO 1942

a) World War I:

The numbers of standardized Quartermaster plans proliferated as the nation mobilized for World War I. The Quartermaster Corps, in April 1917, was unprepared for war and for the demands it

brought. Mobilization was of greater urgency for the Quartermaster Corps than for other bureaus and divisions since “it immediately had to transport, clothe, feed, and shelter an expanding Army.”⁵² The Quartermaster Corps had, after the Mexican-American War, designed plans for temporary cantonment buildings at regimental, brigade, or division training levels. These plans were made available to department commanders in the field.

The Quartermaster Corps next developed a comprehensive set of interchangeable standard plans for a camp. These drawings are named for the 600 number prefix that the series of drawings carries. Thus, the “600 Series” formed the springboard for later Army designs. Congress also began to supply funds to pay for the Army’s design and construction program. While buildings during this period were severely utilitarian and made of wood, the “planning philosophy and logistics necessary in initiating a massive building program” were developed and refined.⁵³ Warfare had taken on a technical aspect, causing the Quartermaster General’s office to design buildings for vehicles and tanks as well as for men and animals. Private industry was also recruited to help with the war effort: large construction firms served as architect-engineers and manufacturers’ associations orchestrated delivery of supplies to construction sites. It was also a time when architects from the private sector added their design skills to the Army’s standardized building plans and layout plans for posts across the country.

When the United States entered World War I in April 1917, the objectives of Army planners became very specific. There was a need for quick, efficient, and, most often, temporary training camps for an expanding Army that would grow to 62 divisions. Centralized planning helped the Army mobilize for war and construction of cantonments became a critical element. The Army’s expansion pivoted on an ability to shelter soldiers while they were trained and organized.

With the unfortunate experiences of the Spanish-American War still in mind, senior officers wanted to ensure that the new cantonments contained adequate sanitary facilities and shelters.⁵⁴ The War Department planned to construct 32 training camps by September 1, each capable of sheltering 40,000 soldiers (see **Table 15**).

⁵² Risch, 605.

⁵³ Lavoie, 8-21.

⁵⁴ During the Spanish-American War, the Army used twenty-nine temporary cantonments across the country to shelter large numbers of recruits during training and while awaiting transportation to Cuba. Insufficient attention to water service and sewerage systems and crowded living conditions caused outbreaks of typhoid fever in 90 percent of the volunteer regiments. Of the 14,000 soldiers who contracted typhoid, over 900 died. Source: Goodwin and Associates, 51

TABLE 15--NATIONAL ARMY CANTONMENTS & NATIONAL GUARD CAMPS, 1917⁵⁵

| NAME OF CAMP | LOCATION | CAPACITY | COST |
|----------------------------------|--------------------------------|----------|--------------|
| National Army Cantonments | | | |
| Custer | Battle Creek, Michigan | 34,045 | 8,700,000 |
| Devens | Ayer, Massachusetts | 35,288 | 9,727,000 |
| Dix | Wrightstown, New Jersey | 41,309 | 9,623,067 |
| Dodge | Des Moines, Iowa | 40,526 | 6,815,519 |
| Funston | Fort Riley, Kansas | 41,564 | 8,799,535 |
| Gordon | Atlanta, Georgia | 39,796 | 7,483,002 |
| Grant | Rockford, Illinois | 41,309 | 8,517,233 |
| Jackson | Columbia, South Carolina | 42,498 | 8,731,187 |
| Lee | Petersburg, Virginia | 45,512 | 11,300,000 |
| Lewis | American Lake, Washington | 44,685 | 7,007,235 |
| Meade | Anapolis Junction, Maryland | 41,309 | 10,500,000 |
| Pike | Little Rock, Arkansas | 42,347 | 9,015,565 |
| Sherman | Chillicothe, Ohio | 38,393 | 9,620,075 |
| Travis | Fort Sam Houston, Texas | 41,353 | 6,717,176 |
| Upton | Yaphank, Long Island, New York | 40,913 | 11,128,341 |
| Zachary Taylor | Louisville, Kentucky | 43,939 | 7,041,392 |
| Total | | 654,786 | 140,726,472 |
| National Guard Camps | | | |
| Beauregard | Alexandria, Louisiana | 27,152 | 2,648,982 |
| Bowie | Fort Worth, Texas | 27,152 | 2,305,402 |
| Cody | Demming, New Mexico | 27,152 | 2,610,443 |
| Doniphan | Fort Sill, Oklahoma | 27,152 | 2,331,802 |
| Fremont | Palo Alto, California | 27,152 | 1,988,729 |
| Greene | Charlotte, North Carolina | 27,152 | 3,246,793 |
| Hancock | Augusta, Georgia | 27,152 | 2,048,571 |
| Kearney | Linda Vista, California | 27,152 | 2,977,088 |
| Logan | Houston, Texas | 27,152 | 1,963,058 |
| McClellan | Anniston, Alabama | 27,152 | 3,258,278 |
| MacArthur | Waco, Texas | 27,152 | 1,974,375 |
| Sevier | Greenville, South Carolina | 27,152 | 1,871,440 |
| Sheridan | Montgomery, Alabama | 27,152 | 1,915,056 |
| Shelby | Hattiesburg, Mississippi | 30,762 | 3,289,825 |
| Wadsworth | Spartansburg, South Carolina | 27,152 | 2,187,327 |
| Wheeler | Macon, Georgia | 27,152 | 2,135,337 |
| Total | | 438,042 | \$38,752,506 |

Two types of camps were to be built. National Guard units would be housed mostly in tents, with a minimum number of wood support buildings. These camps were to be built in the warmer, southern states. The National Army, which required a longer training period, was to receive temporary wooden shelters in 16 cantonments across the country. In addition to utilities, both types of camps required roads, storehouses, barracks, and administration buildings. Responsibility for these camps was removed from the Quartermaster General and placed in a special "Cantonment Division" later called the "Construction Division" that reported directly to the Secretary of War.⁵⁶ World War I temporary construction is an early example of large-scale

⁵⁵ Fine and Remington, 16.

⁵⁶ Goodwin and Associates, 51.

modular construction which formed the basis for the standardized 700 and 800 series construction plans developed for World War II mobilization.⁵⁷

The Cantonment Division consisted of four general divisions headed by Colonel Issac W. Littell. Among prominent architects to volunteer their services after war had been declared, William A. Starrett, President of Starrett & Van Vleck, Architects of New York City, was asked to head the Committee on Emergency Construction. Littell's board, also known as the Starrett Committee, included many prominent leaders from the design and construction professions. Landscape architect Frederick Law Olmsted, Jr., President of the National Conference on City Planning, was asked to be a member, along with Leonard Metcalf, a leading designer of water and sewerage systems, and two outstanding consulting engineers, George W. Fuller and Asa E. Phillips. In addition, architect and planner George B. Ford and other members of the National Council on City Planning, the American Institute of Architects, and the American Society of Landscape Architects acted as advisors to the Army and applied the principles of city planning to military needs.

Responding to the Army's concern of avoiding the outbreak of sickness that occurred in the Spanish-American War, Olmsted's primary concern was to "properly plan the water supply and sewage arrangements, and certain other features of the general layout for the cantonments of the health of the troops and the general efficiency of the work."⁵⁸ He recommended that site selection and plans for each individual site be done by a city planner, a water and sewer engineer, and an Army officer charged with construction. These design professionals were to "select sites and prepare plans for the individual sites to be entrusted to three experts for each site,"⁵⁹ Olmsted expressed surprise that the Army had no housing or site plans except standardized plans for officer's housing from the 1890s.

Ford and his fellow designers created new national, standardized plans to be adapted to the individual cantonment sites for representative examples of the typical plans (See **Figures 15 through 17**.) Examples of these standardized plans are shown in **Table 16**, indicating the range and level of detail that were provided in these plans. Source: *Manual of the Construction Division of the Army, Section C, Engineering Division, 1918*, Consolidated Supply Co., Printers, 1919). Although civilian planning principles were incorporated into the design process, work went on under wartime emergency conditions and required an emphasis on efficiency and utility rather than aesthetic effect. As proposed, each cantonment was to house an entire division of 35,000 to 45,000 men. Buildings were grouped and organized in a grid-like pattern which separated regiments by military rank and hierarchy. While there were no provisions for housing areas or public parks, this early phase of military base planning was seen as "one of the fruits of the city

⁵⁷ Goodwin, 199.

⁵⁸ National Park Service, Pacific Northwest Region, Cultural Resources Division, *Landscape Development Plan Fort Lewis, Washington: Volume I, Volume I, "Landscape History"* (Jane Merritt, project historian, 1990,2-3: after US Congress, House, Hearings Before the Select Committee on Expenditures in the War Department, Camps, Volume I, 66th Congress, 1st Session, 1919, 1068.

⁵⁹ Ibid., 2-3

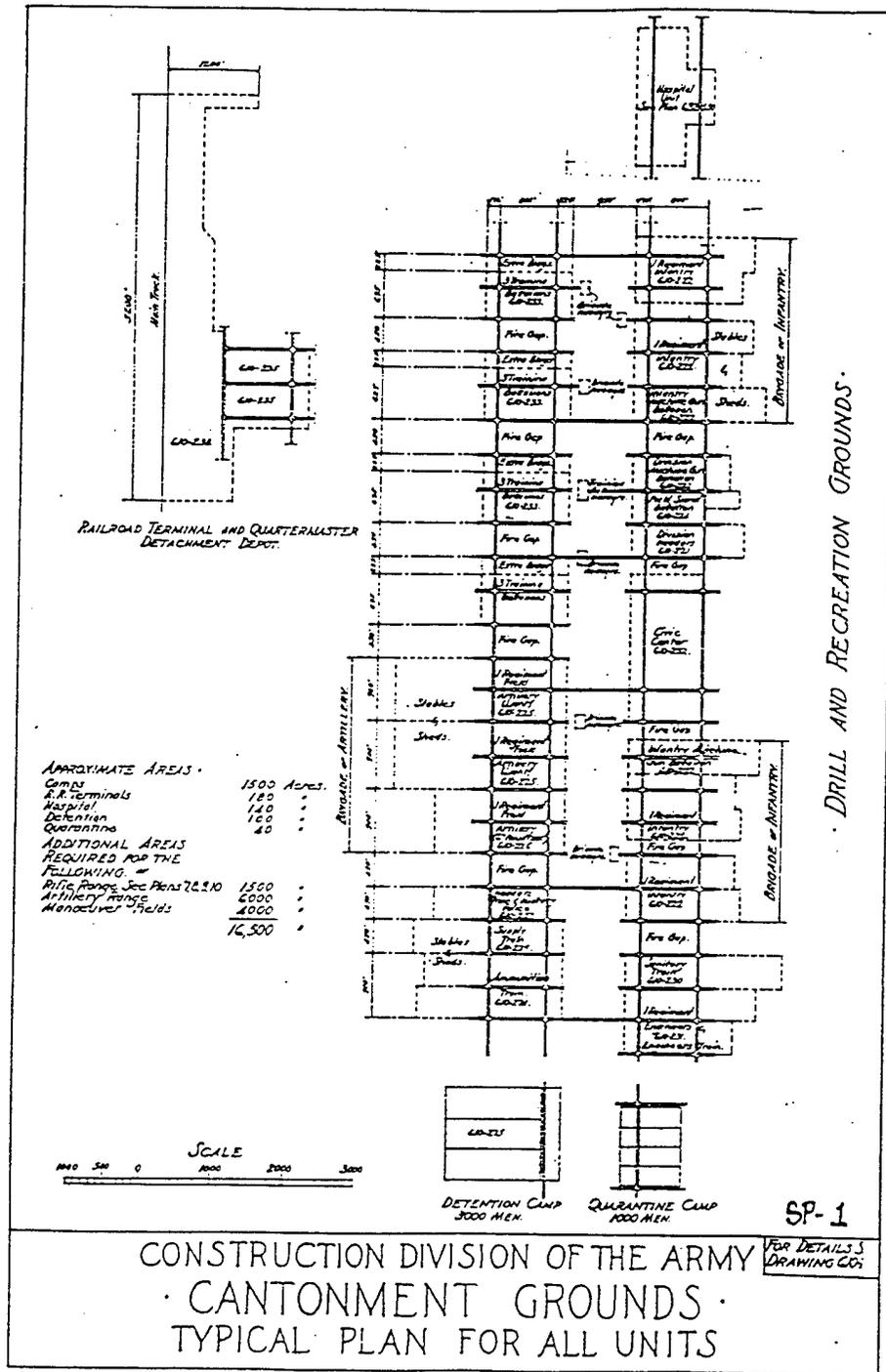


Figure 15. Cantonment Grounds, Typical Plans for All Units. Source: *Manual of the Construction Division of the Army*, Section C, Engineering Division, 1918.

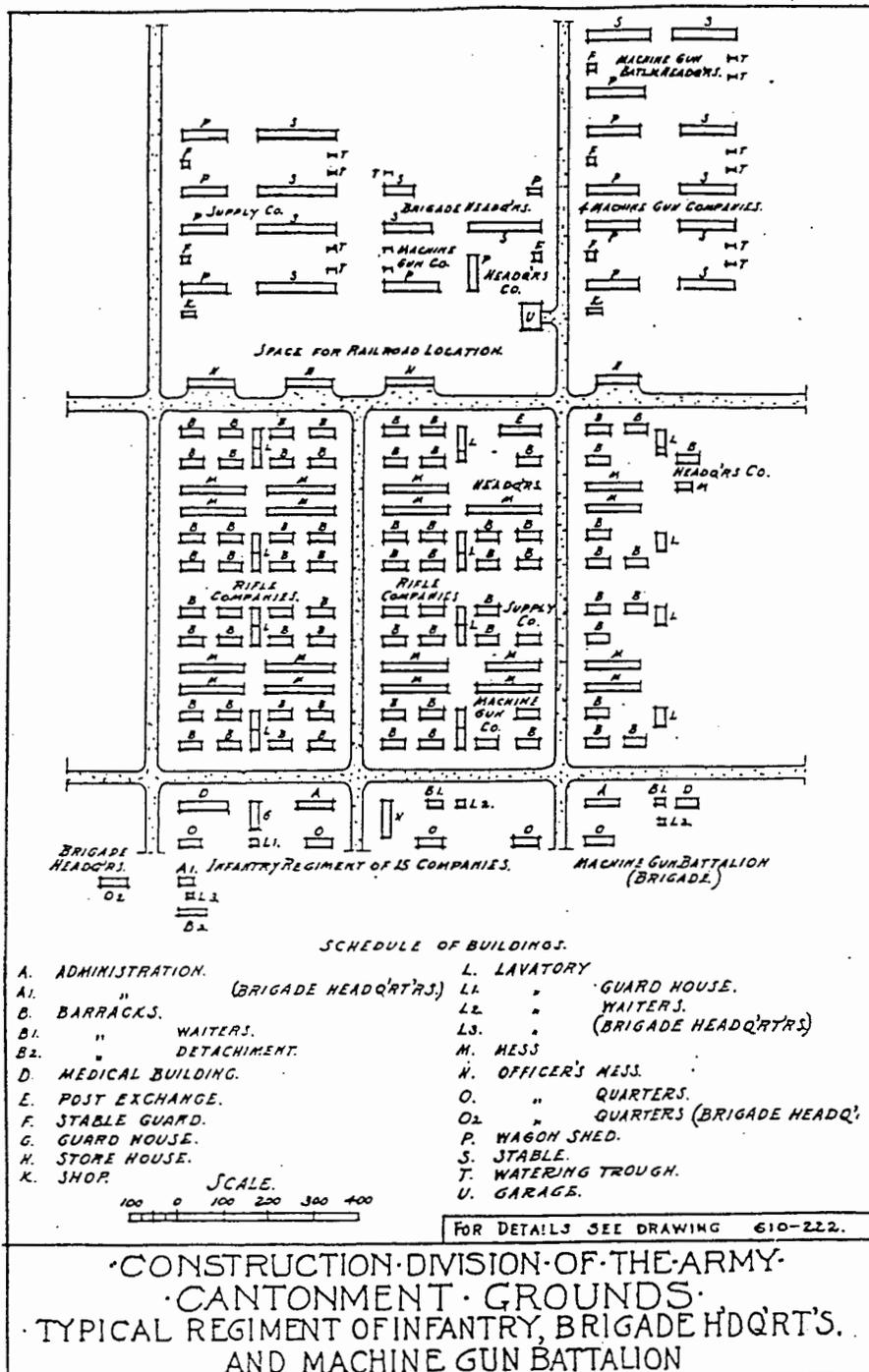


Figure 16. Cantonment Grounds, Typical Regiment of Infantry, Brigade Headquarters, and Machine Gun Battalion. Source: *Manual of the Construction Division of the Army*, Section C, Engineering Division, 1918.

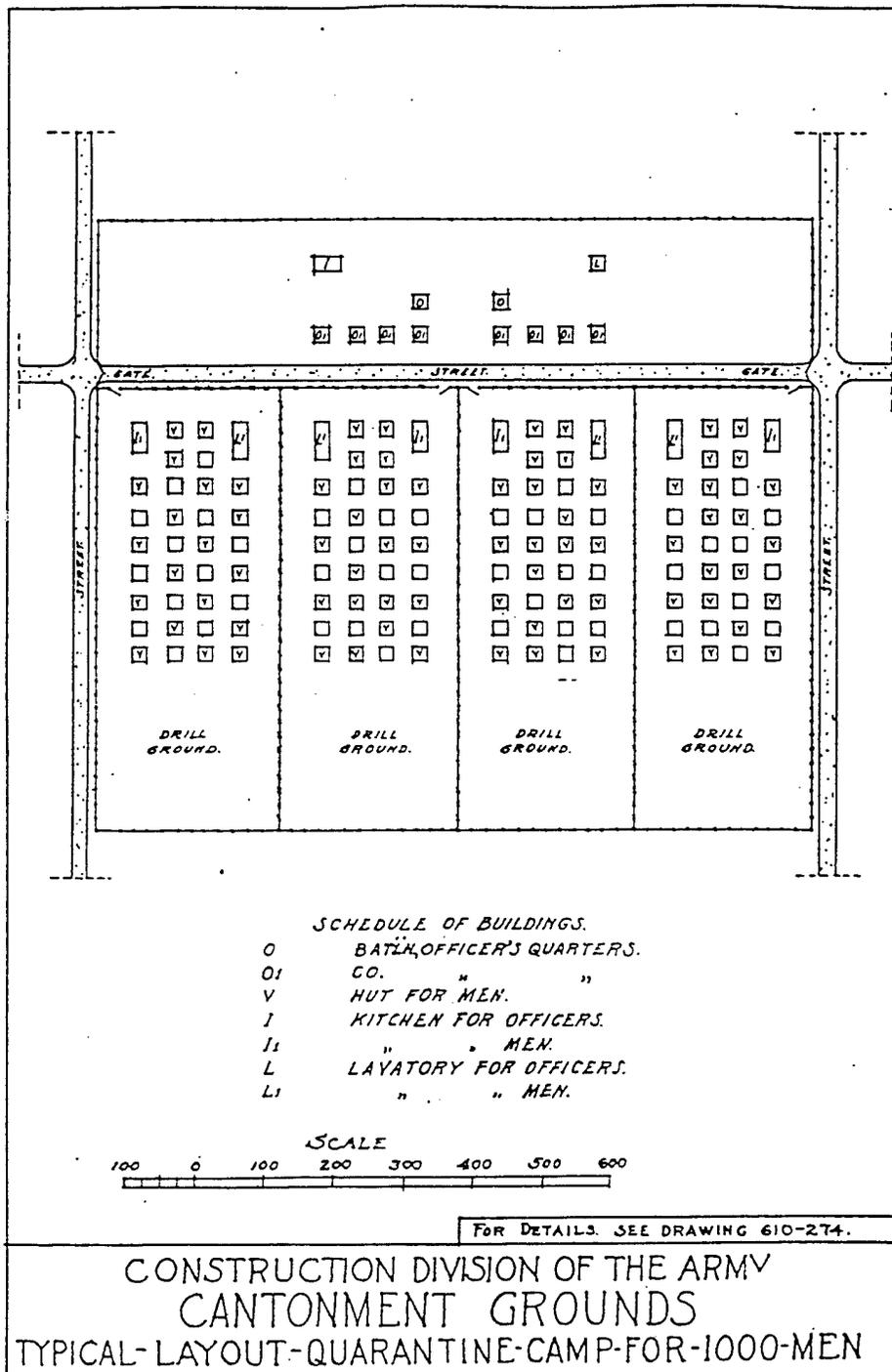


Figure 17. Typical Layout, Quarantine Camp for 1,000 Men. Source: *Manual of the Construction Division of the Army*, Section C, Engineering Division, 1918.

planning movement.”⁶⁰ By July 1917, construction at all 16 Army cantonments was in full swing. The total cost would come to \$140,726,472.

TABLE 16--CANTONMENT GROUNDS: PARTIAL LIST OF TYPICAL LAYOUT PLANS, 1918

| STANDARDIZED DRAWING DESCRIPTION | STD DRAWING NO. |
|---|-----------------|
| Typical Plan for Complete Cantonment | 610-240 |
| Typical Division Headquarters | 610-221 |
| Typical Reg'mt of Inf., Brig. HQ and Machine Gun Bat. | 610-222 |
| Machine Gun Battalion (Division) 2 Cos. Motorized | 610-223 |
| Field Signal Battalion | 610-224 |
| Typical Regiment of Light Artillery | 610-225 |
| Typical Regiment of Heavy Artillery | 610-226 |
| Typical Layout, Camp Center | 610-232 |
| Typical Layout, Depot Brigade | 610-233 |
| Typical Layout, Railroad Terminal | 610-238 |
| Typical Layout Quarantine Camp for 1,000 Men | 610-274 |
| Roads: Typical Cross Sections | LA-2 * |
| Special Plan for Two Balloon Co's and one Aero Squadron | 610-281 |
| Typical Buildings: Details-One Story Buildings | SB-1 * |
| Typical Buildings: Details-Two Story Buildings | SB-2 * |
| Typical Buildings: 66-Men Barrack | SB-4 * |
| Typical Buildings: Mess Building | SB-15 * |

* These drawing numbers were assigned to these plans for the purposes of this study as the drawings did not carry numbers.

Typical building schedules for cantonments included barracks, mess halls, administration buildings, stables, warehouses, laundries, railroad yards, utility buildings, construction buildings, library, hospitals, post-office, remount station and rifle ranges. With the exception of barracks, structures were temporary one-story, frame buildings. Economical two-story barracks were built instead of single-story ones to conserve ground space and consolidate roads, sewers, and water and electrical lines. Originally, the 600 series building plans developed by the Advisory Architect of the Construction Division of the Quartermaster Corps, were modular buildings of wooden-plank construction with board-and-batten siding. A 1917 revised plan showed barracks of stud construction with horizontal siding. In general, buildings related to infrastructure, including heating plants and electric substations, were constructed of more permanent materials such as brick.

b) Post World War I:

At the end of World War I, the federal government drastically reduced military funding and few new construction projects were initiated. With no funding for maintenance, the cantonment buildings that were lightly-built as temporary structures quickly fell into disrepair. The housing shortage after World War I and lack funds to build new housing and replace deteriorated structures forced the Army to live in substandard quarters. One-third of the enlisted men, 40,000 troops, lived in “unsuitable conditions”⁶¹ Both the press and the Secretary of War’s own Annual

⁶⁰ Ibid., 43.

⁶¹ *Report of the Secretary of War, 1924* (Washington: 1924), 16ff, as quoted in Fine & Remington, 46.

Report of 1924 commented on the unsavory living conditions at Army posts.

In 1926, Congress enacted Public Law 45, authorizing the Secretary to sell all or part of forty-three military reservations and deposit the profits in a "Military Post Construction Fund". These funds were to be used to build permanent barracks, housing for non-commissioned officers, and hospitals. Over seven million dollars were raised and expended by 1927 at posts which the Army felt it should keep but which had severe deficiencies. This unique chance to build permanent housing resulted in a partnership between the Quartermaster Corps and design professionals from private industry who were tasked with developing plans for buildings and posts that would be "a deviation from the set type of military post."⁶²

In the fall of 1927 the Quartermaster surveyed junior officer's wives for suggestions on what type of housing was preferred. They favored single family houses and were not in favor of a central mess. While this seemed more expensive, their response prompted the Army to provide single family housing for both NCOs and officers during this period of permanent construction.⁶³

One outcome of this design and planning period was that the Quartermaster Corps issued new standardized building plans. The new designs were created to respond to regional, environmental and historic conditions. A consistently uniform architectural style was used at each post. Along the east coast, in the midwest and Pacific northwest, the Georgian Colonial Revival style was applied. In the south, western plains, southwest and California, the Spanish Colonial Revival style was used. English Tudor Revival was also used where appropriate, and French Provincial was used in Louisiana and the gulf states.

c) Army Air Corps:

A new, major type of World War I facility was airfields. In January 1917, the Army Signal Corps contracted with noted industrial architect Albert Kahn (1869-1942) to provide plans and specifications for Army airfields. Kahn submitted a set of plans for temporary airfields that the Army built nationwide during World War I. The typical World War I airfield plan consisted of twelve wooden-frame hangars, with accompanying barracks, administration, and support buildings. In general, the hangars were aligned on the flightline. However, the hangars at Brooks AFB, Texas, originally were arranged in a shallow arc. Some of the early airfields included Bolling Army Air Field, Washington, D.C.; Chanute Army Air Field, Illinois; Kelly Army Air Field, Texas; March Army Air Field, California; Maxwell Army Air Field, Alabama; and Selfridge Army Air Field, Michigan.⁶⁴

New units of the Army Air Corps also became priority sites for new construction. The Air Corps Act of 1926 allowed for a five-year expansion program "to recruit additional men and purchase new aircraft."⁶⁵ Langley Field, Virginia, and Rockwell Field, California (under construction)

⁶² 1st Lt. Howard B. Nurse, "The Planning of Army Posts" in *The Quartermaster Review* (September-October, 1928), 15.

⁶³ Lt. Col. John S. Chambers, "Quarters for the Army", *The Quartermaster Review*, March-April, 1928, 25.

⁶⁴ Goodwin & Associates, 200.

⁶⁵ *Ibid.*, 51.

were the Air Corps only permanent bases in 1925. New bases were designed to fly, maintain and test aircraft. Funds for the construction of Army Air Corps bases were included in Congressional appropriations for Army posts and their construction was administered by the Quartermaster Corps. (See Table 17)

TABLE 17--DATES OF MAJOR CONSTRUCTION AT SELECTED AIR CORPS BASES⁶⁶

| 1933-1938 | 1939 | 1940 | 1941 | 1942 |
|--------------|----------|--------------|----------|-------------|
| Edwards 1933 | McDill | Davis | Castle | Altus |
| Eglin 1933 | Westover | Elmendorf | Columbia | Beale |
| Hickam 1935 | | Goodfellow | George | Bergstrom |
| Lowry 1937 | | Gunter | Nellis | Blytheville |
| McDill 1937 | | Hill | Griffith | Cannon |
| McGuire 1937 | | Myrtle Beach | Hanscom | Carswell |
| McChord 1938 | | Patrick | Keesler | Charleston |
| | | Ladd | Kirtland | Dover |
| | | | Lackland | Dyass |
| | | | Luke | England |
| | | | Moody | Fairchild |
| | | | Reese | Grissom |
| | | | Robb | Holloman |
| | | | Shepherd | Homestead |
| | | | Tinker | Laughlin |
| | | | Tyndall | Malmstrom |
| | | | Vance | Norton |
| | | | Williams | Peterson |
| | | | | Travis |
| | | | | Whiteman |
| Bases | 7 | 2 | 8 | 18 |
| | | | | 20 |

Permanent Air Corps fields built during the early 1930s were usually planned with bilateral symmetry. The Quartermaster Corps developed a plan in 1926 for March Field, California, that was a one-mile square with the runways laid out on the square's diagonal axis. The same design was used at Barksdale AFB, Louisiana. At Randolph AFB, Texas, Air Corps officer Harold Clark laid out a complex design that separated operational areas into formal geometric patterns. Square in plan, the flightlines defined two sides. A central axis contained "the administration building, commander's quarters, officers club, and cadet school."⁶⁷

In the later part of the 1930s, aircraft had evolved to higher performance levels. They were capable of faster speeds and carrying greater loads. Airfield design changed to accommodate these changes. Greater length was added to runways and intersecting runways were introduced to take advantage of prevailing winds. Also, runway surfaces were improved to bear the weight

⁶⁶ Mueller, Robert *Active Air Force Bases Within the United States of America, 1989*, as quoted in memo from Burgess, HQ AMC/CEVP to Foxall, TCX EN-DB-AC Seattle District, May 20, 1994.

⁶⁷ Thomas A. Manning, "Origins of Randolph AFB" (MSS, Air Training Command. History Office, Randolph AFB, Texas, 1987), as quoted in Goodwin, R. Christopher and Associates, *National Historic Context for Department of Defense Installations, 1790-1940; Volume 1* (Baltimore, MD: United States Army Corps of Engineers, 1995), 50.

George B. Ford "New Army Posts for Old," *The Quartermaster Review* (September-October, 1928): 14-16.

of the newer, improved aircraft. The sited of barracks and administration buildings were shifted to bring work and living spaces closer to the aircraft. Chanute AFB, with its "A" shaped pattern of runways is reminiscent of this design.

Until the end of 1940, site selection for new Army Air Corps bases was done by boards of officers. Most members were appointed by General Henry H. Arnold, chief of the Air Corps, and included airmen, General Staff and Engineer officers, often with no representative from the Quartermaster Corps. Finding few perfect sites, the boards made little progress. Quartermaster planners, meanwhile, examined existing posts and proposed \$34 million worth of new construction in the continental United States, Panama, and Hawaii. Included were "barracks, quarters, shops and warehouses, storage for gasoline and oil, runways, aprons, hardstands, hangars, laboratories, hospitals and schools."⁶⁸

Working with the Air Corps was difficult, in part because of the technical requirements of specialized buildings. The Air Corps staff also presented challenges. General Arnold would not approve Quartermaster layouts containing standardized designs for barracks. Instead, he proposed placing new, prefabricated buildings among permanent buildings and tapping into existing utilities. This raised a concern among Quartermaster designers about creating fire hazards. In July 1939, both sides compromised. The Air Corps agreed to accept mobilization-type buildings and the Quartermaster offered to let the prefab industry compete for housing contracts. The problem of site selections was resolved in July 1940, when three boards were appointed by the General Staff with representatives from the Quartermaster Corps, the Air Corps and the General Staff. The boards hit upon the idea of developing civil airports and received enthusiastic receptions at hundreds of cities. This strategy also eliminated the costly option of building entirely new airfields.

Work continued, but a few months later several projects were in trouble. Air Corps changes to some requirements caused delays. The Quartermaster's centralized control also contributed to delays, and the prefab companies were being underbid. In November 1940, the Air Corps construction program was transferred to the Corps of Engineers. Eighty-one projects, valued at \$200,000,000 "lifted a sizable burden from the shoulders of The Quartermaster General."⁶⁹

d) The Construction Program:

In 1920, the Construction Service of the Quartermaster Corps was created, separating it from the other duties of the Quartermaster Corps where it had been the organized as the Construction Division. The centralized organization of the Construction Service required Construction Quartermasters to report to the Quartermaster General instead of to post commanders. But this arrangement ended when the Secretary of War decreed "No permanent construction will be undertaken where permanent construction can be postponed and only such repairs and temporary construction necessary will be considered."⁷⁰

⁶⁸ Fine and Remington, 95.

⁶⁹ Ibid., 267.

⁷⁰ Ibid., 44.

Between 1926 and 1930, Congress appropriated approximately \$126 million for the Construction Service.⁷¹ Using funds from the National Industrial Recovery Act, the Quartermaster Corps continued work between 1929 and 1932 at a much-reduced pace during the Depression. (See **Table 18.**) Standardized plans were prepared for over 1,600 buildings at sixty-five posts. During this time, construction projects for twenty-two Army Air Corps bases were started.

**TABLE 18--INSTALLATIONS RECEIVING MAJOR CONSTRUCTION PROJECTS
UNDER THE NATIONAL INDUSTRIAL RECOVERY ACT**

| | |
|---------------------------|------------------------------|
| Maxwell Field, AL | Ft. Belvoir, VA |
| Ft. Lewis, WA | Langley Field, VA |
| Randolf Field, TX | Ft. Humphreys, VA |
| Albrook Field, Canal Zone | March Field, CA |
| Wheeler Field, HI | Aberdeen Proving Ground, MD |
| Hamilton Field, CA | Bolling Field, Washington DC |
| Barksdale Field, LA | Ft. Clayton, Canal Zone |
| Ft. Monmouth, NJ | Ft. Sam Houston, TX |
| Ft. George G. Meade, MD | Ft. McClellan, AL |
| Edgewood Arsenal, MD | Ft Bliss, TX |
| Ft. Bragg, NC | Walter Reed Hospital, MD |

From 1934 to 1936, funding declined to \$14 million (\$10 million was for buildings at West Point and Hickam Field in Hawaii). Matters did not improve as the Army started to grow in preparation for World War II. In 1936, the Army's enlisted strength was 153,000 men, "housed in stables, attics, and gymnasiums."⁷² Continuing international tensions contributed to authorizations for a larger Army, 165,000 men in 1937 and 170,000 men in 1938, but one faced with practically no construction funding since 1933.

Finally, in 1937, Congress authorized almost \$26 million to be spent at forty-six posts, followed by \$12 million in June of 1938. Ten days later, President Roosevelt gave the Construction Division \$65 million. When war broke out in Europe on September 1, 1939, the President issued an Executive Order to expand the Army from 210,000 men to 227,000 and the National Guard from 220,000 to 235,000 men. The War Department drew up plans for a defense construction program estimated "to cost between \$850 million and \$1 billion" but these plans languished unfunded by Congress.⁷³ The 700 Series, 800 Series, Modified Theater-of-Operations (T.O.) Series, and the T.O. 700 Series all evolved from the 600 Series designs created in World War I. The T.O. series were "minimalist" structures and did not survive into the postwar period.

Hard pressed now and under fire for being too centralized to work efficiently, the question of removing construction from the Quartermaster Corps came up repeatedly. In the face of this opposition, the Quartermaster Corps developed standardized plans for:

barracks for 25, 45 and 63 men, mess halls with seating capacities of up to 1,000, hospitals ranging in size from 25 to 2,000 beds, dispensaries, guard houses, cold storage plants, fire

⁷¹ Ibid., 50.

⁷² Ibid., 54.

⁷³ Ibid., 103.

stations, control towers, telephone exchanges freight terminals, and numerous other structures. Specifications were available for everything from flagpoles to 5,000-gallon gasoline storage and distribution systems.⁷⁴

These plans were badly needed. Before being sent overseas, G.I.s needed housing and training. A gigantic construction program began in the fall of 1940. By November of 1944, the Army had housing for 6 million troops in the continental U.S. A small number lived in tents but most lived, trained and worked in more than 30,000 "temporary" wood-frame buildings. Only 270,000 of the 6 million troops "were lodged in buildings labeled 'permanent.'"⁷⁵

Planners designing post layouts also considered and investigated climate, topography, geology, soil conditions, labor, transportation, real estate and utilities at each potential site. Survey teams probed sites for information on "terrain, subsurface rock, natural drainage, flood levels, vegetation, real estate values, availability of adjacent tracts, location of railways and highways, the size of the local labor force, the amount of housing in the area... [w]ater supply, sewerage, electrical power and fuel." Lists of potential sites were drawn up, boards of officers investigated each site, and their recommendations were forwarded to the War Department.⁷⁶ General Brehon B. Somervell, chief of the Construction Division, anticipated that "we won't have to build these camps on places ...where we have to blast out entire sewer and water lines for a population of 30,000 people."⁷⁷

In May 1941, over 150 sites had been investigated for the new camps. Reports were reviewed by the Operations and Training Division, the Supply Division, the Surgeon General and, finally, the Quartermaster General. Twenty-three sites were selected for planning purposes. Architect-engineers were put to work by the Quartermaster Corps in camp planning and included firms like J. B. McCreary; Charles T. Main; Black & Veatch; and Leeds, Hill, Barnard and Jewett. Working under fixed-fee contracts, much of the planning for the camps was done in 90 days.

The ideal camp included tightly designed regimental areas; "short roads and utilities lines; a centrally located storage depot; and an unusually good concept for landscaping and site development."⁷⁸ The camps were in fact small cities. Camp Edwards, California, had 1,400 buildings. Unseen but essential plans were developed for water, gas and electricity lines; sewage lines and disposal plants; and streets, roads and railroads. The Quartermaster Corps overcame problems with scarcity of building materials, located sixty million dollars worth of construction equipment, found skilled labor to build the camps, settled strikes over wages and hours, and

⁷⁴ Ibid., 168-69.

⁷⁵ Kriv, Arlene R. (Editor), *World War II and the U.S. Army Mobilization Program: A History of 700 and 800 series Cantonment Construction* (Washington, D.C.: Historic American Building Survey/Historic American Engineering Record, National Park Service for Legacy Resources Management Program, U.S. Department of Defense, 1993), 3.

⁷⁶ These boards consisted of officers appointed by the corps area commander and included a Constructing Quartermaster from the Quartermaster Corps, a Medical officer, and Engineer officer and an officer representing the local army commander.

⁷⁷ As quoted in Fine & Remington, 345.

⁷⁸ Fine & Remington, 211.

developed assembly line techniques for clearing land and prefabricating parts to erect buildings in record time. Constructing Quartermasters, located at individual job sites, developed streamlined auditing techniques that took into account the contractor's needs for reimbursement of funds to keep going.

But by November 1940, time was running out. The Quartermaster Corps was stretched to its organizational limits. Unrealistic planning for mobilization and indecision on whether the Army's construction mission properly belonged to the Quartermaster or to the Engineers "produced grave concern within the War Department."⁷⁹ Construction continued, but there were delays in "project after project" and the Quartermaster Corps came in for criticism in the press and official dissatisfaction with progress.

The Quartermaster Corps was busy in 1941. The 700 series plans were reviewed and improved by requiring heavier framing, better roofing and adding door and window screens. Deleted from the plans (resulting in savings) were skirting, "acqua medias" above windows, and termite shields. Even as work on the 700 series was being completed, a new series was coming out.

The new 800 series, completed in the spring of 1941, were quite different from the 700 series they replaced. The new barracks were larger, resulting in a reduced number of buildings in smaller cantonments, and required the construction of fewer miles of roads and shorter utility lines. Most Army companies fit badly into four of the 700 series barracks, but neatly into three of the new 800 series. This new series received both praise and criticism. The barracks were custom-sized; they were better built and more livable and although they cost more, fewer were needed so installations could be built for about the same cost as 700 series buildings. Critics felt the improved buildings were "semi-permanent" rather than temporary, that too much high grade material and extra long lengths of lumber were called for, and that the positive changes could have been incorporated into the 700 series. When the Quartermaster Corps compromised by allowing shorter lengths of material for use outside of earthquake and hurricane zones, the General Staff approved the 800 series.

A Quartermaster Corps program to test building materials recommended that hospitals be two-story and made of fire-resistant materials; that portable prefabricated huts replace tents, and that "sturdier" materials like masonry, cinder block, and tile be used in addition to wood. Approval to deviate from standardized plans came in April 1941, and although construction remained predominately wood, designs using other materials began to appear.

The Quartermaster Corps also began stockpiling lumber in anticipation of increased construction. Over 265 million board feet were purchased in February for delivery in May, thereby assuring enough materials were on hand to avoid shortages.

In September of 1941, identical bills were introduced in both houses of Congress proposing that all Army construction work be assigned to the Corps of Engineers. On December 1, the President signed the House measure into law, just days before the attack on Pearl Harbor.

⁷⁹ Ibid., 240.

e) Army Post Development, Layout, and Architectural Styles:

This report focuses on Quartermaster Corps standardized buildings. However, Quartermaster Corps standardized *landscape features* should also be identified, documented and evaluated during historic resource assessments.⁸⁰

By the third period of standardization, the Quartermaster Corps had launched a more comprehensive plan for Army post development. Post layout until this era had followed grid-like patterns and the buildings “were arranged in monotonous rows close together, with little privacy ...utterly unattractive.”⁸¹ By World War I, however, the Army began providing standards and guidelines for installation site plans. These guidelines were based on national design trends in city and community planning. City planners with national reputations served as advisors on how to lay out the posts.

Ideally, the standardized site plan was a U-shaped arrangement of buildings and structural units that covered up to six square miles. The base of the U was to be accessible to transportation routes and communication lines. The legs of the U were composed of barracks, officer’s quarters, and other buildings. The space between the legs was left open to serve as a parade ground, and varied in size from one thousand to twelve hundred feet wide.

Placement and organization of the road system was intentionally used to establish the separation of rank and the separation of functions within the cantonment. The main street through the post was a broad avenue about 100 feet wide and more than 2 and 1/2 miles in length, separating the officers quarters from the soldiers barracks. An Army Major, working with troops at Camp Lee, Virginia, described the typical encampment: “Branch streets, running at right angles to [the main street] separate the battalions of the division, wider avenues the regiments, these latter serving as ‘firebreaks.’ These battalion and regimental streets are about 200 yards long, and form in

⁸⁰ A historic landscape is defined as “a geographic area, including both cultural and natural resources, associated with a historic event, activity, or person, or exhibiting other cultural or aesthetic values.”⁸⁰ There are four types of historic landscapes; *designed, vernacular, sites, and ethnographic landscapes*.

Historic landscapes and/or landscape features associated with the Quartermaster Corps planning and design efforts are considered *historic designed landscapes*. A historic designed landscape is defined as “a landscape that was consciously designed or laid out by a landscape architect, planner, architect, master gardener, or horticulturist according to design principles, or an amateur gardener working in a recognized style or tradition. The landscape may be associated with a significant person(s), trend, or event in landscape architecture; or illustrate an important development in the theory and practice of landscape architecture.”

For more information on documenting and evaluating historic landscapes see: *National Register Bulletin 18: How to Evaluate and Nominate Designed Historic Landscapes*; and *National Register Bulletin 30: Guidelines for Evaluating and Documenting Rural Historic Landscapes*, National Park Service, Interagency Resources Division, 1987; *Guidelines for the Treatment of Historic Landscapes*, National Park Service, Preservation Assistance Division, 1992; and *Preservation Brief 36: Protecting Cultural Landscapes: Planning, Treatment and Management of Historic Landscapes*, Charles Birnbaum, National Park Service, Preservation Assistance Division, 1994.

A number of “character-defining features” are used to document and assess the character of a historic landscape. These include overall organization, response to natural features, land uses and activities, circulation features and systems, vegetation, structures, and small-scale features.

⁸¹ George B. Ford, “New Army Posts for Old” *The Quartermaster Review* (November-December, 1929) 19.

themselves compact social areas.”⁸² Character-defining landscape features depicted on World War I standardized plans include overall organization and land use (standardized site plans), circulation features (roads, railroads), and building clusters.

In his 1927 *Annual Report to the War Department*, Major General B.F. Cheatham (Quartermaster General 1926-1930) presented a wide directive for improvement of the Army’s permanent military bases. Cheatham’s goal was to combine military tradition with the design concepts of city planning and landscape architecture. His primary concern was to maintain the unity of regimental commands through a quadrangle barracks formation, arranging the officers quarters, barracks and other military facilities according to regimental units. This arrangement concentrated the barracks so they could be easily controlled while giving enlisted men as much privacy as possible.

To implement these goals, Cheatham and the Construction Division launched a comprehensive plan for Army post development during the late 1920s and 1930s.⁸³ To oversee the program, the Construction Division put together an influential group of architects, engineers, planners, designers, and landscape architects. Included was architect and planner, George B. Ford, a member of the W.W.I. civilian design committee, hired in 1929 to review installation plans. Ford’s used efficient, simple plans and combined them with planning concepts used in the City Beautiful and Garden City movements. The goal of the professional team “was to develop efficient, cohesive, and pleasant environments within reasonable expenditures.”⁸⁴

Writing in *The Quartermaster Review*, Ford addressed the matter of designing for military posts. While the Army’s efficiency was praiseworthy, he felt it was “a well-known tradition of the Army in the past that whereas Army buildings and layout must be practical, nevertheless they should look military. There seemed to be a feeling that any building or layout that was not foursquare and austere was effeminate and unworthy of the Army.”⁸⁵ Pleasant environments could be created using vistas and irregular lines. Examples of these environments can be noted in the layouts of Fort Lewis in Washington and Camp Devens in Massachusetts.

In Ford’s 1930 article, “A Better Looking City”, he recommended architectural continuity within residential neighborhoods, at the same time warning against the monotony of subdivisions. Ford advocated the use of curvilinear streets, open spaces for playgrounds, large avenues and streets, and abundant planting.⁸⁶ These city planning influences can still be seen in many of the permanent bases built during this period where officers residential areas contained large yards, curvilinear streets, and large neighborhood open spaces.⁸⁷ (See **Figure 18.**)

⁸² Ibid., 5.

⁸³ Swanberg, 78; Fine and Remington, 48.

⁸⁴ Goodwin, 207.

⁸⁵ Ford, 14-16.

⁸⁶ Ford, 71.

⁸⁷ Other examples include but are not limited to the neighborhood of Broadmoore at Fort Lewis, Washington; Aberdeen Proving Ground, Maryland; Maxwell Air Force Base, Alabama; the brick officer’s quarters at Wright Patterson Air Force Base, Ohio; Fort Monroe, Virginia; Bolling Air Force Base, Maryland; and Fort Benning, Georgia.

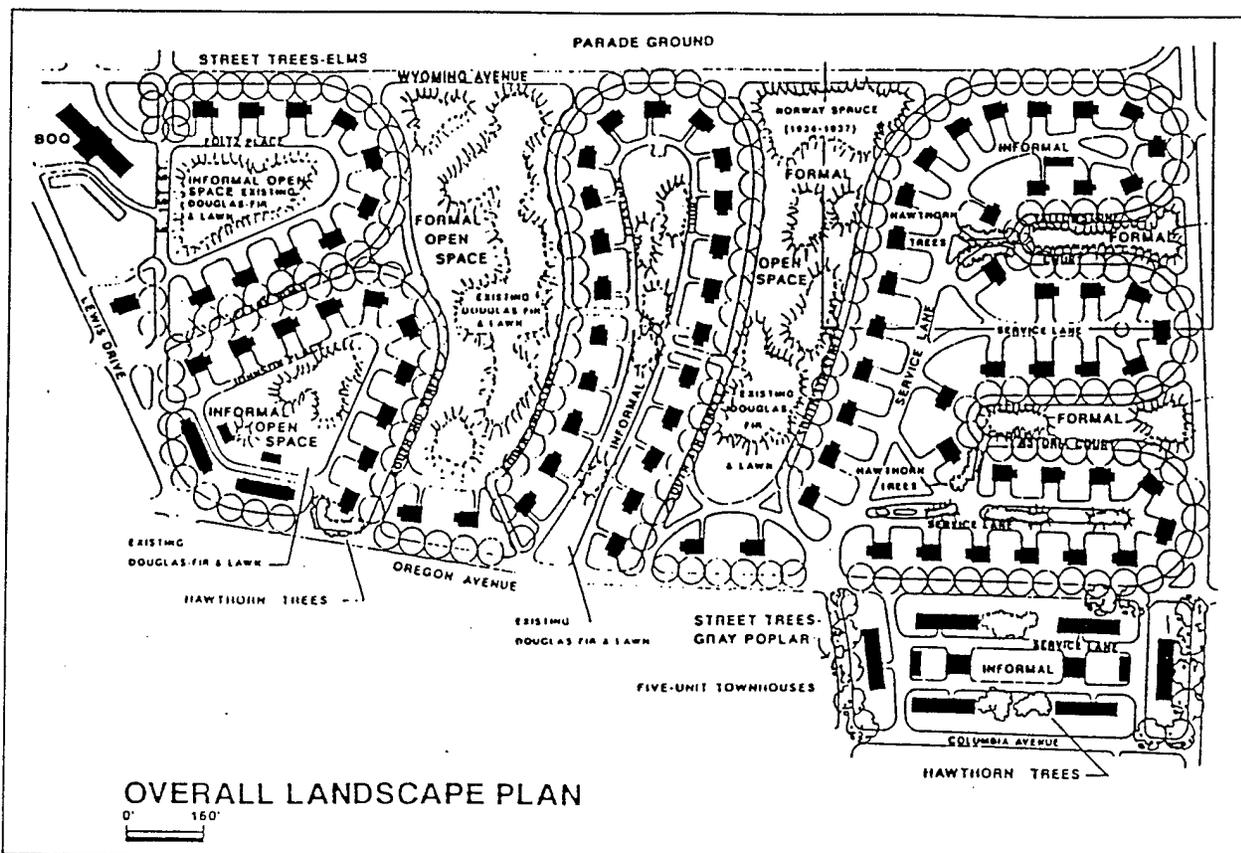


Figure 18--Broadmoor neighborhood of Fort Lewis, Washington showing layout of curvilinear streets and large open areas.

First Lieutenant Howard B. Nurse, of the Quartermaster Corps, compared the planning of Army posts to the new field of city planning. The goal of planners and developers was to achieve healthy conditions, scientific training of troops, and provide “the means of social intercourse.” To achieve these ends, Nurse recommended a comprehensive plan for installation growth.⁸⁸ Like Ford, Nurse advocated using topography in the design and layout of streets, avoiding straight lines, especially in residential areas. Although he conceded that many older posts had a charming appearance that increased with time, he believed that installation planning depended upon the systematic application of city planning principles.

The consistent application of master planning concepts such as functional, hierarchical arrangements of buildings and circulation systems (roads and sidewalks), incorporation of community areas and open space, standardized building setbacks, and the design of curvilinear roads and orientation of buildings to compliment existing topography, allowed the ordered development of posts. While parade grounds were no longer always the central feature of the

⁸⁸ He further suggested planners should consider five principles: (1) unity, or the coordination of the various plans; (2) consonance in design of recurring patterns; (3) natural beauty, even while accepting natural differences in designs; (4) balance, usually along an axis; and (5) radiation, whereby parts of a community radiate from the center and return. He found parallels for these principles in examples of natural design, and even compared the military community to a living organism.

site, as they were for earlier posts, they still served as important organizing features in the overall site plan. Some posts contained multiple parade grounds, using individual parade grounds as central features for different functional areas which were linked by boulevards and vistas.

Approved by Congress in 1926, Public Law No. 45 opened the way for new construction on Army posts. As a result of this activity, standardized plans using two Colonial Revival styles began showing up in Quartermaster designs in the 1930s. These were Georgian Colonial Revival, used on the northern Atlantic seaboard and across to the Northwest, and Spanish Colonial Revival, used in the warm Southeast and Southwest regions. Neighborhoods of NCO family housing were developed during the years between World War I and II using suburban cottage and bungalow style buildings.

f) Landscape Plantings:

Landscaping at permanent bases was addressed as part of the comprehensive design process. The Quartermaster Report of 1927 suggested planting trees and shrubs to “harmonize with the general scheme for each post.” The Department of Agriculture furnished information to the War Department on plant materials while some post commanders established nurseries for growing plants, shrubbery and trees. Ford, in his role as advisor, thought that the layout and landscape of the new posts “with all its carefully disposed trees, lawns and shrubbery, will form a beautiful pattern most attractive in color as well as in form. The post itself will have all the charm that the best modern subdivisions have and ...should function with great efficiency”⁸⁹

By 1931, the Construction Division of the Quartermaster Corps had established a national design criteria for landscaping military posts which could be applied to individual sites. The Landscape Unit acted as a clearinghouse of information for bases that wished to improve their grounds: “Aids for the development and maintenance of the beautification of the Post have been created. Nurseries have been encouraged in the Posts, where the better plant material suitable for that locality may be grown. Lists of such plants and specifications for the care and planting of these are available, on request.”⁹⁰

Besides making plant material available, the Landscape Unit also advocated general planting design principles such as: the use of trees and shrubs to screen objectionable views; frame interesting views and accentuate points of interest; separate functional areas; moderate harsh environmental conditions through soil erosion control and planting trees for shade; and generally “create a pleasing and livable atmosphere outdoors”⁹¹

In 1933-34, the Landscape Unit prepared standardized landscape plans for bases titled “Typical Landscape Planting”. These standardized planting plans were developed for several standardized building plans including:

⁸⁹ Ford, 20.

⁹⁰ E. Mack Hallauer, “Landscaping the Army Post.” *The Quartermaster Review* (July-August 1939), 30.

⁹¹ *Ibid.*, pp. 30.

Figure 19--Company Officers' Quarters and Double N.C.O. Quarters;
Figure 20--Headquarters Administration Building, Bachelor Officers' Quarters and Barracks;
Figure 21--Theater, Chapel and Hospital; and

These standardized plans established general design principles for a popular 1920s and 1930s planting style, foundation planting. The plans were prepared so that plant material could be adapted to different regions of the country.

The necessity for landscaping military posts was justified on the basis of instilling civic pride and increasing morale among the enlisted men.⁹² However, the quantity of materials available for the actual plantings, due to Army cost regulations, tended to be small. And, in many cases, landscaping was not installed until years after initial construction, as Commanding Generals found time and money for grounds improvement projects.

g) Site Planning

In 1941, new site plans and post layouts were developed as the 700 series gave way to the new 800 series plans. Leon H. Zach, a Harvard-trained landscape architect and associate of the Olmsted Brothers, took charge of site planning. He sought efficiency and usefulness for the mobilization camps, but economy of construction drove him to "consolidate functions and compact areas to the utmost."⁹³ He reduced the amount of roads in divisional cantonments by 44 percent and graded areas by another 25 percent. At airfields he effected a 51.6 percent reduction in roads, "and similar economies in water and sewer lines."⁹⁴ (See **Figure 22**.)

⁹² Ibid., pp. 31.

⁹³ Leon Zach, "Site Planning of Cantonment and Community Housing," *Civil Engineering*, XV, No. 8 (August 1945), 363-65.

⁹⁴ Fine and Remington, 353.

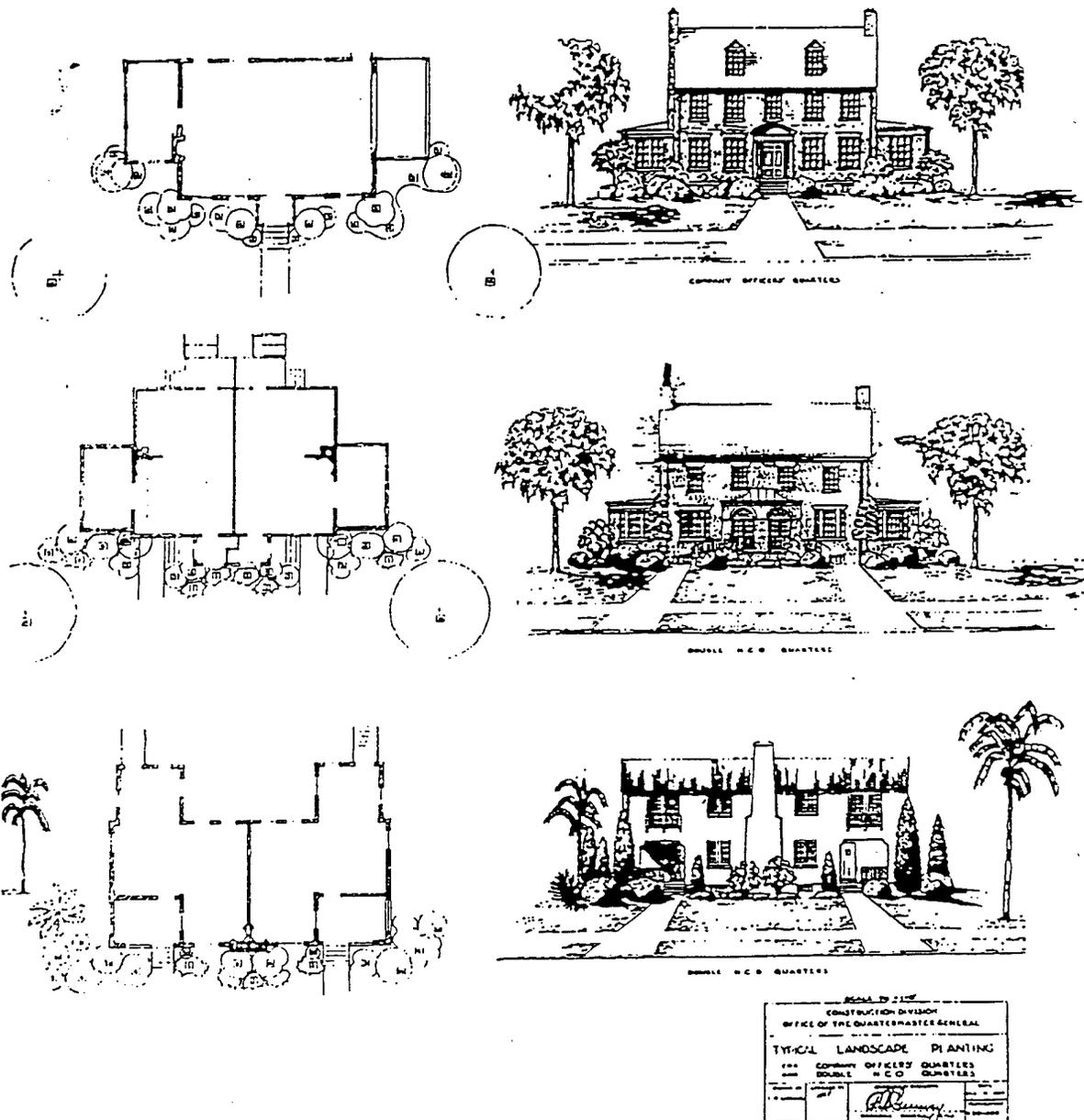


Figure 19. Typical Landscape Planting Plans for: Company Officers' Quarters and Double N.C.O. Quarters.
 Source: Office of History, Headquarters, U.S. Army Corps of Engineers, Alexandria, VA.

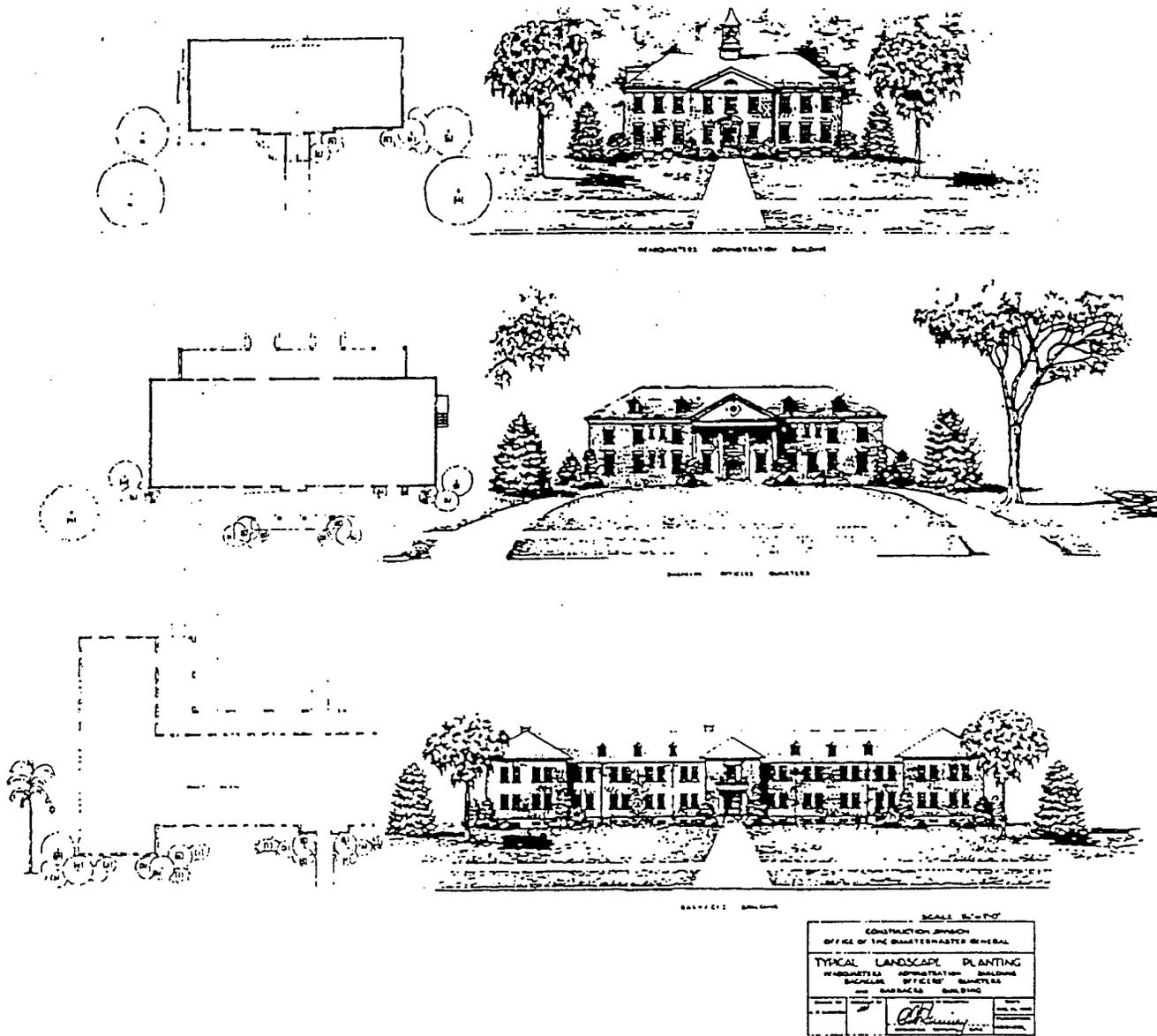


Figure 20. Typical Landscape Planting Plans for Headquarters Administration Building, Bachelor Officers' Quarters and Barracks Buildings. Source: Office of History, Headquarters, U.S. Army Corps of Engineers, Alexandria, VA.

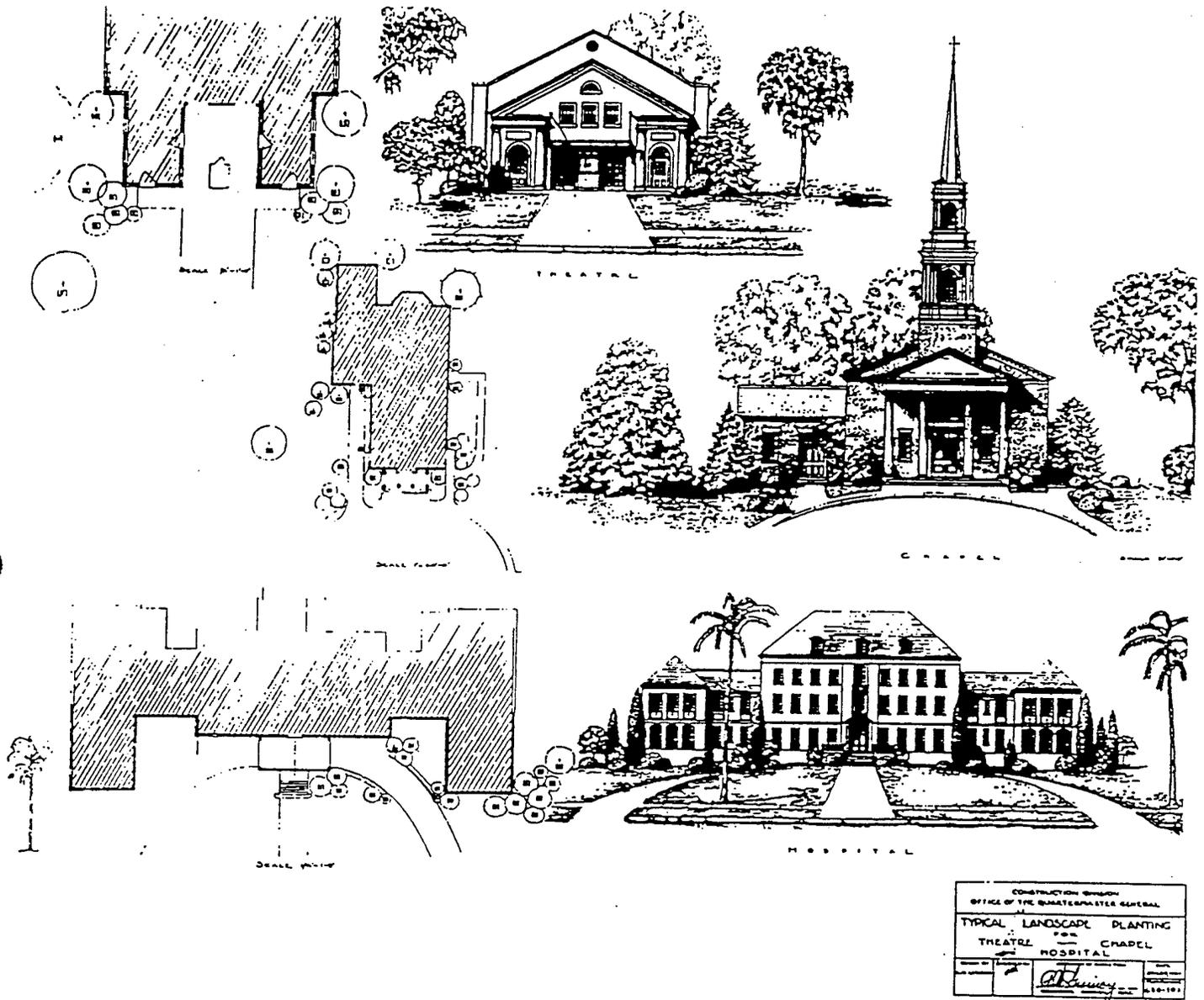


Figure 21. Typical Landscape Planting Plans for Theater, Chapel and Hospital Area. Source: Office of History, Headquarters, U.S. Army Corps of Engineers, Alexandria, VA.

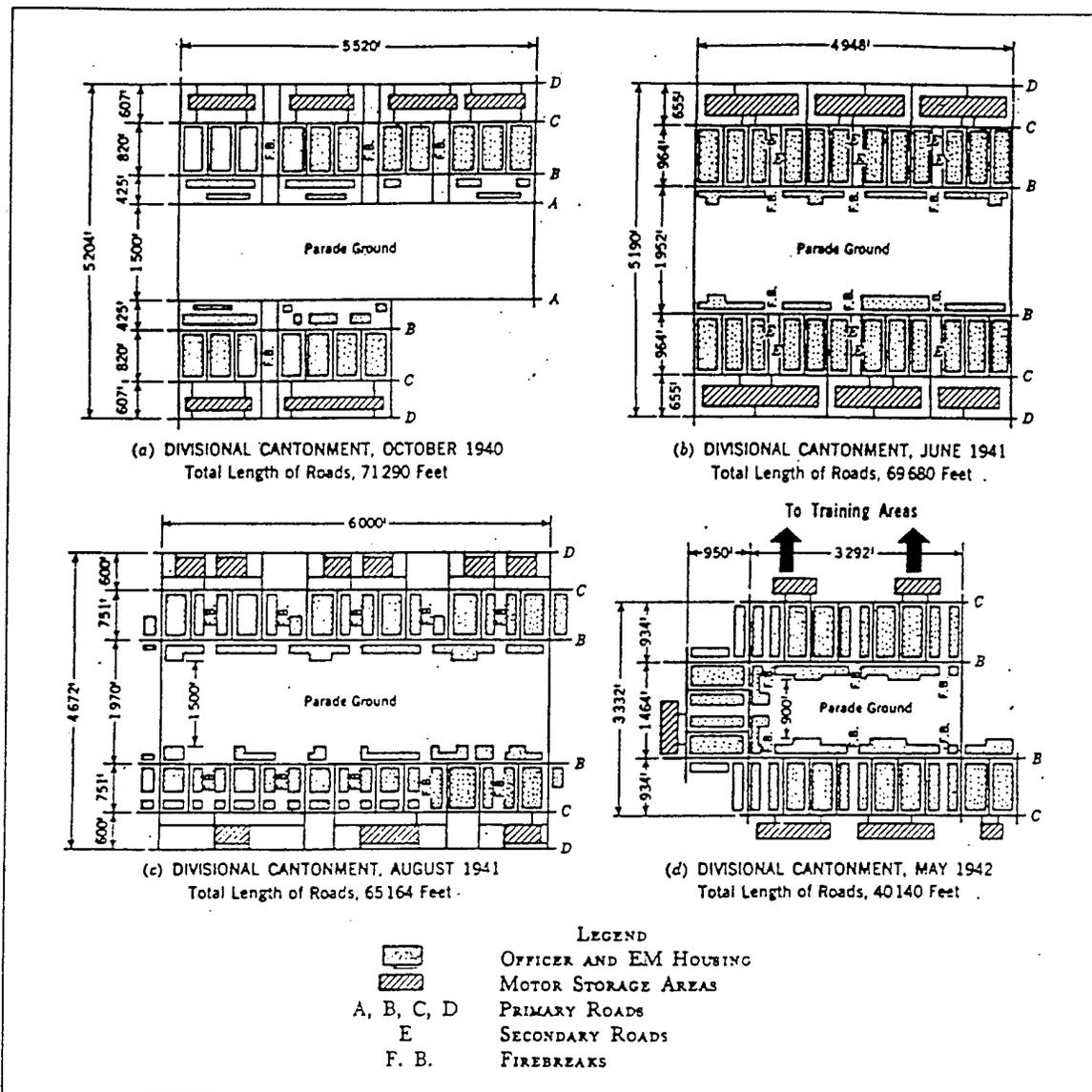


Figure 22--Evolution of site planning showing four increasingly efficient layouts for a divisional cantonment between October 1940 and May 1942. Source: Leon Zach, "Site Planning of Cantonment and Community Housing," *Civil Engineering*, August 1945, 364-65.

h) The Transition

1941, the last year that the Quartermaster Corps would include construction among its varied duties, was marked both by competition and cooperation with the Corps of Engineers. Both groups shared responsibility for the Army's construction and both were aware that the country would soon be at war. The transfer of responsibility for the Air Corps construction program to the Army Engineers in November of 1940 carried a critical "cutoff" date of July 1, 1942, when Air Corps construction would revert to the Quartermaster Corps. Within the year this program would be viewed by Congress as a practical test of the Engineer Department. In the meantime, building new bases for the Air Corps offered a considerable challenge.

The Construction Division continued to carry the burden of designing Air Corps structures from January to April of 1941, when the Engineers took up the task. In the early part of the year, the Engineer's inherited working arrangement with the Air Corps was termed "chaos". The exact number of projects and how much they cost was unclear and site selection was hampered by an Air Corps policy to accept all donated land. Moreover, the Air Corps was permitted by regulations to establish functional requirements, estimate costs, and recommend post layouts. In practice, the Air Corps often gave the Quartermaster Corps completed designs. Technically difficult because of their specialized nature,⁹⁵ the Air Corps needed structures "for testing and repairing engines, radios, armament, and equipment for storing bombsights, chemicals and explosives."⁹⁶ Buildings of these types were built at the four original Air Corps posts: San Antonio, Texas; Middletown, Pennsylvania; Patterson Field, Ohio; and Sacramento, California.

The plans received from the Air Corps were often flawed and included low safety factors. On occasion, the materials specified for temporary buildings were suited to permanent structures. Some estimates were based on how much had been appropriated rather than how much was actually needed for construction. By May 1941, the Engineers had evaluated the 700 series Quartermaster Corps plans and made several hundred changes to strengthen sagging floors, leaking roofs and fix other problems. The Engineer's ability to run a large, efficient field organization were paying off. By the end of the year congressional support of the Engineers increased as committees revealed Quartermaster shortcomings in the construction arena but no criticism of the Engineers.

Meanwhile, the War Department was trying to decide whether the Corps of Engineers or the Quartermaster Corps would be responsible for the Army's construction. Contractors stepped up the pressure with complaints to the War Department about having to deal with "two Army construction agencies, two sets of regulations, and two systems of bookkeeping."⁹⁷ Several organizational plans were considered, including establishing a separate corps headed by a major general and staffed with civilians. The debate over who was to be the Army's builder included discussion over whether maintenance and repair tasks were to be classed as a "house-keeping" (a Quartermaster Corps activity) or associated with civil engineering. Deliberations over the qualifications of the Corps of Engineers included a concern that the Engineers had wide experience with civil projects rather than day-to-day Army jobs.⁹⁸ The debate even drew in engineering societies who favored the Quartermaster Corps tradition of contracting for professional services and feared that the Engineer's policy of in-house design would result in less work for their members.

⁹⁵ The Engineers found that design standards for runway and taxiway pavements were based on methods of calculating loads for highways. This was acceptable when prewar commercial aircraft had loads of 12,500 pounds per wheel. However, bombers with 37,000-pound wheel loads were already in use and heavier aircraft were coming. Eventually the Engineers and the Air Corps agreed that runways would be built capable of withstanding wheel loads up to 60,000 pounds until 1944 when newer, heavier bombers were expected.

⁹⁶ Fine and Remington, 452.

⁹⁷ *Ibid.*, 462.

⁹⁸ The issue of maintenance and repair was resolved in November 1941, when the chiefs of each division agreed that the Engineers would assume all duties that, in a city, would be done by a city manager. The Quartermaster General elected to be in charge of "branch depots and to run bakeries, laundries, shoe repair shops, and the like."

Lt. General Edmund B. Gregory, Quartermaster General, testifying at the House committee hearings in September and October of 1941, refused to be drawn over which branch should be responsible for construction. Only one branch, he said, should be responsible for construction but it was up to Congress to decide which. On October 16, at the conclusion of the hearings, the Senate voted to move construction to the Corps of Engineers. The House voted for the transfer bill on November 21, and President Roosevelt signed the measure into law on December 1, 1941.⁹⁹

There were several plans for consolidation of the two agencies before the transition passed into law. The proposed Construction Division office of the Corps of Engineers in Washington was reminiscent of the Quartermaster's Construction Division, with five branches: Engineering, Operations, Contracts and Claims, Real Estate, and Repairs and Utilities. In the field, because the Engineer divisions did not match the Army's main corps areas, several proposals were offered including an unpopular centralized organizational scheme that allowed District Engineers a direct line of authority from the Chief Engineer. This proposal brought unanimous criticism from the division engineers who justified it with concerns over duplicating the Quartermaster's centralized organization and the problems associated with it.

The matter was resolved when the Chief Engineer decided district engineers were to report to division engineers on everything but repairs and utilities. The Construction Division transferred accounts, real property and files, "and prepared implementing orders." Regular Quartermaster officers with construction experience were offered the choice of transferring to the Corps of Engineers or staying with the Quartermaster Corps and being assigned to other duties. The transfer of responsibilities to the Corps of Engineers became effective on December 16, 1941.

D. CONCLUSION

From the early days, the Quartermaster Corps was charged with broad, primary responsibilities in fields of Army supply. The history of the Quartermaster Corps follows a recurrent pattern of wartime expansion followed by peacetime cutbacks. Unable to prepare for wartime emergencies in years of financial constriction, the Quartermaster Corps was hard-pressed to respond during war. During the nineteenth century the nation was at war for a mere 9 out of 100 years. It is no surprise that Quartermaster officers, like their civilian brothers, looked upon military preparedness with a skeptical attitude.

Protected by a broad expanse of water and sheltered by the British navy that patrolled it, they felt no menace to their way of life. ...they enjoyed the advantages of low defense costs and could afford the luxury of a small Army, only large enough to provide police action against the Indians who obstructed the westward movement.¹⁰⁰

Things improved in the early twentieth century but the Quartermaster Corps still operated with

⁹⁹ 55 Stat. 787 and 87th Congressional Record, 9005, 9400.

¹⁰⁰ Risch, 739.

barely enough funding to get by in peacetime and a pervasive public indifference to the Army after World War I. The Quartermaster Corps was, however, among the first called upon to prepare for war and was required "to transport, shelter, clothe, equip and subsist immediately a rapidly mushrooming force."¹⁰¹ Congress always made funds available, eventually, to pursue the war effort but industry needed time to retool and begin production of war materials. Shortages of raw materials had to be overcome and plans had to be developed to redirect the products of the nation's labor force. At the end of a war, the Army always demobilized and the size of the Regular Army was reduced. Constriction became the order of the day, leaving the Quartermaster Corps unprepared when the next war broke out.

The Quartermaster Corps was plagued by problems of under-funding, over-centralization and the lack of adequate numbers of architects and engineers. When Major General Nathaniel Green, serving in the Revolutionary War, became Quartermaster General he was heard to complain, "no one ever heard of a quartermaster."¹⁰² This combat soldier's observation applied equally well to conditions surrounding the Quartermaster Corps before World War I. In spite of these problems, the Quartermaster Corps consistently rose to the challenge and, in World War II, undertook a vast construction effort that, when it was taken over by the Corps of Engineers, was well started. This construction program included "camps and cantonments to house 5.3 million troops; plants to mass-produce explosives, ammunition, tanks, and planes; hospitals providing nearly half a million beds; a huge network of ports and depots; and bomber bases which entailed a whole new technology..."¹⁰³ The information in **Table 19** indicates that in December 1941, the Quartermaster Corps was working on 220 projects and had completed 375 projects. This, however, does not indicate the pace at which the Corps had been working. Five months earlier, the Quartermaster Corps had completed only 100 projects and had 324 in progress. One of these projects, designed between July and October, was being built in December by 4,000 men working three shifts a day and would take eight years to complete. This project was the Pentagon.

TABLE 19--SUMMARY OF QUARMASTER PROJECTS
COMPLETED AND UNDER WAY ON DECEMBER 5, 1941¹⁰⁴

| Projects | Completed | Under Way | Value of Work in Place |
|--------------------------------------|-----------|-----------|------------------------|
| Camps and Cantonments..... | 61 | 10 | \$623,532,764 |
| Reception Centers..... | 47 | --- | 8,640,794 |
| Replacement Training Centers..... | 25 | 4 | 110,665,861 |
| Harbor Defenses..... | 37 | 8 | 26,549,331 |
| Miscellaneous Troop Facilities..... | 113 | 87 | 148,009,863 |
| General Hospitals..... | 19 | 6 | 24,716,258 |
| Ordnance Plants..... | 20 | 40 | 663,865,631 |
| Ordnance Ammo Storage Depots..... | 2 | 7 | 72,859,862 |
| Misc. Ordnance Facilities..... | 6 | 20 | 38,327,548, |
| Chemical Warfare Service Plants..... | 7 | 4 | 26,815,370 |
| Storage Depots (excluding Ammo)..... | 9 | 23 | 76,512,266 |
| Miscellaneous Projects | 29 | 11 | 7,772,505 |

¹⁰¹ Ibid., 739.

¹⁰² Risch, 740.

¹⁰³ Fine & Remington, Preface ix.

¹⁰⁴ Ibid., 417. Those projects that were more than 95% complete were included.

| Projects | Completed | Under Way | Value of Work in Place |
|------------------------|-----------|-----------|------------------------|
| TOTAL COMPLETED | 375 | 220 | \$ 1,828,268,053 |

The wisdom of the Quartermaster Corps decision to develop and use standardized plans was eloquently confirmed in General Eugene Reybold's musings on the Allied victory in World War II. "Construction power had been a decisive factor in victory. ...camps and cantonments had been key to mobilization; munitions plants to rearmament; and airfields, to air superiority."¹⁰⁵ Little of this nation-wide accomplishment could have been attained without the Quartermaster Corps or standardized plans.

The achievements of the Quartermaster Corps are still seen and felt at Army installations. The Quartermaster Corps designs are easily recognized in the large, permanent barracks and single family houses associated with the housing program of 1926. Less easily recognized but equally strong contributors to the nation's architectural history are support buildings like World War II warehouses, hospitals, garages and work shops--all built from standardized plans. Less obvious design features that form an integral part of our legacy from the Quartermaster Corps include: circulation patterns, street profiles, designed land use areas and carefully conceived plans for landscape planting. All of these exploits are visible at large installations where all of these designs can be found, or at small posts where only a few buildings and structures were built from standardized plans. The effect is intensified when an understanding of the architectural heritage of several bases is achieved: the same buildings with intentional regional differences are observed, patterns of base layouts emerge and the magnitude of the work undertaken by the Quartermaster Corps unfolds.

¹⁰⁵ Ibid., 701.

E. BUILDING TYPES

Context Statements for Individual Building Types

Introduction

This part of the study contains selected context statements for individual building types, and drawings and photographs from various sources which demonstrate examples of the Quartermaster General Standard Plans.

Each section is prefaced by a written introduction that describes the building type, its historical evolution, and discusses the issues of association and integrity as they relate to that specific building type.

The division of building types and the introductions to each section were taken directly from *National Historic Context for Department of Defense Installations, 1790-1940* by R. Christopher Goodwin & Associates, Inc., 1995, which was developed for the U.S. Army Corps of Engineers, Baltimore District. The original text has been edited to conform to the requirements of this study, with references which do not apply to Army buildings and footnotes having been removed.

The drawings in this part of the study were obtained from three main sources. The database (**Part F**) identifies the specific source of each document. Some drawings are copies of drawings found in the files of individual installations; some came from the National Archives in Washington, DC; and others were found in two early editions of the Quartermaster Corps Manuals: the *Manual of the Construction Division of the Army, Section C, Engineering Division, 1918* and the *Manual for the Quartermasters Corps, U.S. Army, 1916-17*.

The photographic figures in this part were provided by the Technical Center of Expertise for Preservation of Structures and Buildings, Seattle District, U.S Army Corps of Engineers.

Installation personnel can use the drawings and photographs in this part of the study in conjunction with the database listing in Part F to locate, identify, and compare buildings on their installation and determine whether they may be part of the Quartermaster Standard Plans system.

The drawings and photographs included in this report represent a random sampling of the individual building types and are not meant to be comprehensive. They provide a guide to installation personnel for identifying the characteristics of the different types of historic structures on their installations. Individual buildings on specific installations may vary substantially from those types shown here, and each structure will need to be evaluated on its own individual merit.

| JOB 620 TYPICAL BUILDINGS FOR CAMPS & CANTONMENTS DESCRIPTION & REFERENCE DRAWINGS | | | | | | | | | | | | |
|---|--|---------------------------------------|--------|----------|---|-------------------|-------|-------|------|-------|--------------|------------|
| SHEET | NAME OF BUILDING | SIZE OR AREA | BENT | HIGHT | NOTES UNLESS OTHERWISE NOTED ALL DIMS ARE OF WOOD CONSTR | CONSTR DETAILS | ELECT | PLUMB | META | PAINT | IRON PIPE | WOOD |
| 332 | SHED - WAGON OR GUN | 20x24 | 9'-0" | 1-STORY | OPEN TWO SIDES. | | | | | | | |
| 372 | SHOP | 20x36 | 6'-0" | 1 " | | 317 | 367 | | | | 323 330 | 325 |
| 381 | CLOTHING SHOE REPAIR - PRINTING | 30x102 | | 1 " | STORE ROOMS & TOILETS. | 314 | 367 | | | | 323 330 | 325 |
| 437 | CLOTHING SHOE & HAT REPAIR | 60x100 | 10'-0" | 2-STORY | " " " " | 306 | 334 | 367 | | 430 | 323 330 | 325 |
| 467 | CLOTHING REPAIR | 28x12 | 10'-0" | 1-STORY | STORE ROOMS. | 334 | 367 | | | 460 | | 325 |
| | CLOTHING AND HAT REPAIR | 28x12 | 10'-0" | 1 " | " " | | | | | | | |
| 436 | COT REPAIR | 40x36 | 10'-0" | 1 " | WORK AND SUPPLY ROOMS. | 334 | 367 | | | | 323 330 | 325 |
| 478-479 | MOTOR REPAIR | 75x96 | 24'-0" | 1 " | SHOP ROOMS INCLUDED. | 464 | 367 | 352 | 351 | 403 | | 325 |
| 387-388 | " " " | 60x150 | 27'-4" | 1 " | SHOP ROOMS INCLUDED | 389 | 334 | 367 | | 498 | | 325 |
| 390 | QUARTERMASTER & BUILDINGS EACH | 36x106 | 11'-9" | 1 " | YARD BETWEEN BLDGS 40x106 | 324 | 367 | | | | 323 330 | 325 |
| 439 | TENT TREATING | 36x40 | 10'-0" | 1 " | WORK AND SUPPLY ROOMS. | 334 | 367 | | | | 323 330 | 325 |
| 440 | " " REPAIR | 40x60 | 10'-0" | 1 " | " " " " | 334 | 367 | | | | 323 330 | 325 |
| 395 | SHOP | 20x48 | 7'-0" | 1 " | " " " " | 317 | 367 | | | | 323 330 | 325 |
| 451 | SHOWER SHELTER & WASH HOUSE - (BATTALION) | 20x80 | 6'-0" | 1 " | MEN'S WASH, SHOWER & DRESSING ROOMS. OFFICERS SHOWERS. | 350 | 367 | | 351 | | 323 330 | 325 |
| NORTHERN AND SOUTHERN CONSTRUCTION ... 320-2-102 | | | | | | ZONES MAP | | | | | | |
| 395 | STABLE GUARD | 20x21 | 7'-0" | 1-STORY | | 317 | 367 | | | | 323 330 | 325 |
| 376 | STABLE - OPEN | 24x24 | 10'-0" | 1 " | 4 ANIMALS TO EACH BENT. | | | | | | | |
| 421 | " " CLOSED | 29x24 | 10'-0" | 1 " | FORAGE AND SADDLE ROOMS. | | 367 | | | | | 325 |
| 412-413 | STORE HOUSE - SALVAGE | 60x60 | 12'-0" | 1 " | PLATFORM ONE SIDE. | 413 | 334 | 367 | | | | 325 |
| 319 | " " DIVISIONAL | 60x60 | 9'-9" | 1 " | UNITS DIVIDED BY BRICK FIRE WALLS 10' PLATFORM EACH SIDE | | 367 | | | | | |
| 487-488 | " " " | 60x60 | 9'-9" | 1 " | ONION & POTATO STORAGE - INSULATED 10' PLATFORM EACH SIDE | | 367 | | | | 323 330 | 325 |
| 318 | " " REGIMENTAL | 20x24 | 7'-0" | 1 " | " " " " | | 367 | | | | 323 330 | 325 |
| 418 | TEL. OFFICE & QUARTERS | 20x110 | 10'-0" | 1 " | TELEGRAPH OFFICE 10' DEEP RM3 DETACHED LAV. 14' x 34' | 317 | 334 | 367 | 350 | 351 | 417 | 325 |
| 328 | TELEPHONE TELEGRAPH BLDG | 20x70 | 7'-0" | 1 " | 1 - ROOM EACH FOR OPERATOR OPER ATING TERMINAL & TELEG. OFFICE | 334 | 367 | | 464 | | 323 330 | 325 325 |
| 499-500 | LIBERTY THEATRE | 60x120 | 6'-0" | 1 " | AUDITORIUM SEATING 1550. STAGE 30' x 60' ADDED SEE SCHEDULE 315, 316 | 400 | | | | | 503 | 323 327 |
| 385-386 | WAREHOUSE FOR CLOTHING | 60x100 | 10'-0" | 2-STORY | 2 OFFICES - TOILETS & ELEVATOR | 334 | 367 | | | | | 325 |
| 432 | WASTE & TRANSFER STA. | 20x150 | 10'-0" | 1-STORY | WALKING FROM 20' x 30' OPEN PLATFORM 20' x 100' | | 367 | 352 | 351 | | | |
| 473 | WATER COOLING & CONDENSER | 8x25 | | 10' HIGH | ALSO TO BE BUILT IN CONNECTION WITH REFRIGERATOR PLAN. | (SEE | 471) | | | | | |
| 325 | VENTILATORS GALVANIZED STEEL. | (FOR CAPACITIES, SCHEDULES & DETAILS) | | | | | | | | | | 325 |

SCHEDULE FOR REMOUNT STATIONS.

| DESCRIPTION | JOB 404 | DESCRIPTION | JOB 404 |
|---|---------|---|---------|
| PLAN FOR RIGGING AND CARGO CORRAL. <small>CARGADOR'S SHOP AND PACK HOUSE.</small> | 23 | TYPICAL RECEIVING CORRAL. | 36 |
| CARGADOR'S SHOP. | 24 | TYPICAL BLACKSMITH SCHOOL SHOP. | 37 |
| RIGGING AND CARGO CORRAL. | 25 | HAY RACK AND FEED TROUGH COMBINED | 39 |
| PACK HORSE FOR INSTRUCTION IN PACKING. | 26 | ANIMAL SHELTER. | 42 |
| HAY RACK AND FEED TROUGH. | 27 | OPERATION ROOM OR FORAGE ROOM. | 43 |
| TYPICAL FENCE AND GATE. | 28 | SHED FOR HAY CHOPPING AND OAT CRUSHING. | 44 |
| COVERED CHUTE AND PEN. | 29 | TYPICAL OUTSIDE ELECTRIC WIRING PLMS | 45 |
| TYPICAL UNLOADING PLATFORM. <small>PENS, GATES, CHUTES & RAMP</small> | 30 & 31 | SHELTER SHED WITH HAY RACK & FEED TROUGH | 46 |
| MANURE LOADING PLATFORM. | 32 | PLAN CHANGING LARGE CORRAL <small>INTO (4) FOUR SMALLER CORRALS</small> | 47 |
| DIPPING TANK. | 33 | STATION FOR 7500 ANIMALS. | 48 |
| BLACKSMITH AND WHEELWRIGHT SHOP. | 34 | | |
| SHED FOR ISOLATION CORRAL. | 35 | | |

Source: Manual of the Construction Division of the Army, Section C, Engineer Division, Washington, DC, 1919. Plate 44.

MISCELLANEOUS-BUILDINGS-DESCRIPTION & REFERENCE-DRWGS

NOTE: REFERENCE DRAWINGS HAVE SAME JOB NUMBER UNLESS OTHERWISE NOTED.

| JOB | DRWG | NAME OF BUILDING | SIZE | BENTS | HEIGHT | NOTES | UNLESS OTHERWISE NOTED ALL BLDGS ARE OF WOOD CONST. | CONSTR. DETAILS | ELEC. | PUMPS | HOT WATER | STEAM HEAT. | VENTS |
|------|---------------------|-------------------------------------|-----------------------------|---------|--------|--|---|-----------------|------------|----------|-----------|-------------|-------------|
| 606 | 19-20 21-22 | AUDITORIUM. | 200x300 | 23'-0" | | FRAME & STUCCO. PLASTERED INSIDE, STEEL TRUSSES AND WOOD ROOF. | | 20 21 | 22 | 29 | | 41 | 620-325 |
| 6339 | 131 | CAFETERIA. | 54x189 | 14'-6" | 1STORY | TWO DINING ROOMS 54'-0" KITCHEN AND STORE ROOMS. | | 133 | 134 | 131 | 131 | | |
| 6370 | 106 | " | 132x173 | 12'-0" | 2 STRS | CAP. OFFICERS 118, MEN 47, WOMEN 72, KITCHEN AND BED ROOMS FOR 20 BEDS. | | 106 | 108 | 106 | 105 | 109 | 620-325 |
| 6209 | 113 | " | 105x192 | 16'-0" | 1STORY | 4 DINING RMS SEATS 244 EACH, KITCHEN & STORE RMS, CAP. 2000 | | 112 | 113 | 112 | 112 | 112 | 620-325 |
| 6383 | 110 | " | 110x171 | " | " | 2 DINING RMS SEATS 194 EACH, KITCHEN 7' - 0" - 6" ETC. | | 111 | 112 | 112 | 110 | 112 | 620-325 |
| 6403 | 111 | " | 156x200 | " | 2 STRS | MENS DINING RM SEATS 1000, KITCHEN W/DWEN 3'0" & ETC. | | 111 | 113 | 101 | 101 | 114 | 620-325 |
| 632 | 551 | DELOUSING PLANT. | 48x84 | 12'-0" | 1STORY | 24 MEN PER 1/2 HOUR. | | 551 | 551 | 591 | 591 | 591 | 620-325 |
| " | 550 | " | 54x120 | " | " | 48 MEN PER 1/2 HOUR. | | 550 | 550 | 590 | 590 | 590 | 620-325 |
| " | 552 | " | 60x204 | " | " | 150 MEN PER 1/2 HOUR. | | 552 | 552 | 589 | 589 | 589 | 620-325 |
| 6307 | 110 | DORMITORY FOR MEN | 28x113 | 15'-0" | 2 STRS | 47 SINGLE BED ROOMS, SOCIAL HALL, W.C.'S & ETC. | | 6316 101 | 110 | 110 | 110 | | 6316 101 |
| " | 121 | DORMITORY & DINING ROOM | 29x136 | " | " | 58 SINGLE BED ROOMS, KITCHEN & DINING ROOM 28x59 & ETC. | | 6316 101 | 121 | 121 | 121 | | 6316 101 |
| 6339 | 111 | " | 29x136 | " | " | 60 SINGLE BED ROOMS, SERVING RM W/DWEN 3'0" & ETC. | | 6316 101 | 111 | 111 | 111 | | 6316 101 |
| 6242 | 5 | GARAGE | 140x44 | 16'-0" | 1STORY | MECHANICAL REPAIR UNIT NO 305 | | 5 | 5 | 5 | | | 620-325 |
| 6311 | 105 | " | 81x164 | 18'-0" | " | SCULPTURE PROVING BRUNDS, MASS | | 106 | 158 | 105 | | | 620-325 |
| 552 | 17 | ORDNANCE | 150xVAR | 20'-0" | " | TILE WALLS, WOOD TRUSSES, HEATER ROOM. | | 17 | 17 | 17 | 17 | | 620-325 |
| " | 214 | GUARDHOUSE, TYPE N#1 | 110x56 | 7'-0" | " | | | 214 | 214 | 214 | | | 620-325 |
| 6143 | 2 | GAS INSTRUCTION | 16x30 | " | " | | | 2 | | | | | |
| 6309 | 121 | HOUSING, 4 FAMILY HOUSE | 39x57 | " | 2 STRS | KITCHEN, LIVING ROOM & 2 BED ROOMS. EACH | | 101 103 | 104 | 105 | 105 | | 6316 101 |
| " | 180 | " | 24x26 | " | " | KITCHEN, DINING RM, LIVING RM. AND THREE BED ROOMS. | | 102 103 | 104 | 105 | 105 | | 6316 101 |
| " | 160 | BOARDING | 27x38 | " | " | KITCHEN, LIVING ROOM AND EIGHT BED ROOMS. | | 102 103 | 104 | 105 | 105 | | 6316 101 |
| " | 150 | FAMILY | 24x30 | " | 1STORY | KITCHEN, LIVING RM. & TWO BED RMS | | 102 103 | 104 | 105 | 105 | | 6316 101 |
| " | 190 | " | 24x32 | " | " | KITCHEN, LIVING ROOM AND TWO BED ROOMS. | | 102 103 | 104 | 105 | 105 | | 6316 101 |
| " | 200 | " | 25x36 | " | 2 STRS | KITCHEN, DINING, LIVING AND THREE BED ROOMS. EACH. | | 102 103 | 104 | 105 | 105 | | 6316 101 |
| 633 | 140 | LAUNDRY | 36x108 | 18'-0" | 1STORY | 1000 TO 2000 MEN | | 101 | 102 | 140 | 142 | 141 | 141 |
| " | 130 | " | 72x216 | " | " | 5000 TO 10000 MEN. | | 101 | 102 | 130 | 132 | 131 | 131 |
| " | 110 | " | 144x252 | " | " | 10000 TO 20000 MEN. | | 101 | 102 | 110 | 112 | 111 | 111 |
| " | 120 | " | 210x170 | " | " | 40000 MEN. | | 101 | 102 | 120 | 122 | 121 | 121 |
| 608 | 104 | LECTURE HALL. | 51x77 | 15'-0" | " | SEATING CAP. 500. | | 104 | 610 367 | | | | 620-325 |
| 652 | 7 | MAGAZINE-TYPE N#1 | 51x219 | 20'-0" | 1STORY | TILE WALLS & WOOD TRUSSES. | | 7 | | | | | 620-325 |
| " | 9 | " | 51x219 | " | " | " | | 9 | | | | | 620-325 |
| " | 179 | " | 49x208 | 16'-0" | " | TILE OR BRICK WALLS. | | 179 | | | | | 620-325 |
| " | 180 | " | 26x42 | " | " | TILE WALLS, CEILED INSIDE. PLATFORM AT ONE END. | | 180 | | | | | |
| " | 31 | " | 26x42 | " | " | CORR. ASBESTOS OR GALV. IRON SIDING. CEILED INSIDE. PLATFORM AT ONE END. | | 31 | | | | | |
| " | 169 | " | 26x42 | " | " | TILE WALLS, CEILED INSIDE. PLATFORM AT ONE END. | | 169 | | | | | |
| 6196 | 104 | " | 16x22 | " | " | CORR. ASBESTOS SIDING. CEILED INSIDE. | | 104 | 104 | | | | |
| 652 | 146 | " | 32x96 | 16'-0" | " | CORR. ASBESTOS SIDING. CEILED INSIDE. PLATFORM AT ONE SIDE. | | 146 | | | | | |
| " | 173 | PRIMER & FUSE HOUSE TYPE N#1 | 32x96 | " | " | TILE WALLS, CEILED INSIDE. PLATFORM AT ONE SIDE. | | 173 | | | | | |
| " | 174 | " | 32x96 | " | " | TILE WALLS, CEILED INSIDE. PLATFORM AT ONE END. | | 174 | | | | | |
| " | 152 | PYROTECHNIC PLANT. TYPE N#2 | 20x35 | " | " | SALTPETER STORAGE. PLATFORM AT ONE END. | | 152 | | | | | 620-325 |
| " | 157 | " | 30x161 | 13'-0" | " | BRICK END WALLS, RECEIVING AND DISCHARGING ROOMS & BENCH WORK. | | 157 | | | | | 620-325 |
| " | 158 | " | 30x104 | " | " | BRICK END WALLS, RECEIVING AND DISCHARGING ROOMS & BENCH WORK. | | 158 | | | | | 620-325 |
| " | 165 | SHED, DOCK TYPE N#2 | 60x221 | 20'-0" | " | TILE WALLS, STEEL TRUSSES. PLATFORMS AT END AND SIDE. | | 165 | 165 | | | | 620-325 |
| " | 19 | SHOP, ORDNANCE REPAIR. | 30x80 | " | " | OPTICAL, VEHICLE REPAIR, SADDLER CARPENTER, ARMORER & MACH GUN RM. | | 19 | 19 | | | | 620-325 |
| " | 158 | STORAGE BATTERY STATION TYPE N#1 | 39x156 | 20'-0" | " | TILE WALLS, WOOD TRUSSES. METAL WINDOWS. PLATFORMS. | | 158 | 158 | | | | 620-325 |
| " | 43 | STORAGE BUILDING VEHICLES. TYPE N#1 | 113x513 | 16'-0" | " | TILE WALLS, BRICK FIRE WALLS, METAL WINDOWS. PLATFORM. | | 43 | | | | | 620-325 |
| " | 188 | STORAGE BUILDING VEHICLES. TYPE N#3 | 161xVAR | " | " | TILE WALLS, BRICK FIRE WALLS, METAL WINDOWS. PLATFORMS. | | 188 | 188 | | | | 620-325 |
| " | 41 | STOREHOUSE GENERAL. TYPE N#1 | 161x501 | 20'-0" | " | TILE WALLS, BRICK FIRE WALLS, METAL WINDOWS. PLAT. BOTH SIDES. | | 41 | | | | | 620-325 |
| " | 74 | " | 161xVAR | 20'-0" | " | TILE WALLS, BRICK FIRE WALLS, METAL WINDOWS. PLAT. BOTH SIDES. | | 71 | 71 | | | | 620-325 |
| 6271 | 7 | STORAGE DEPOT, ADM. BLDG. | 140x160 | " | 2 STRS | BRICK WALLS, SHED ATTACHED. PLATFORMS. SEE PLAT PLAN 6271-5 | | 7 | 5 | 10 | | | |
| " | 12 | " | OPEN SHED. | 155x126 | " | 1STORY | CINDER PLATFORM. | | 12 | 5 | 12 | | |
| " | 17 | " | WAREHOUSES. N#2-3-4-5-6-7-8 | 161xVAR | " | " | BRICK WALLS, CHARGING STATION, PLATFORM, TOILETS & ETC. | | 17 | 5 | 12 | | |
| 608 | 24 | THEATRE, CLASS-A. | 120x187 | " | " | SEATING CAP. OVER 3000. | | 23 23 | 24 27 | 30 | | | 6316 101 |
| " | 34-32-33 34-2106 | " | LIBERTY CLASS-D. | 75x167 | 15'-6" | " | SEATING CAP. 2100 WITH BALCONY. | 31 32 | 33 106 | 31 32 | 31 | | 31 |
| 652 | 81 | TRANSFORMER STA TYPE N#1 | 20x36 | " | 1STORY | BRICK WALLS, CONCRETE ROOF AND METAL WINDOWS. | | 81 | 81 | | | | 620-325 |
| 6399 | 120 | WELFARE BLDG. | 84x96 | 10'-0" | " | AUDITORIUM, SEATING CAP. 200. BILLIARD & READING ROOMS. | | 120 | 103 | 103 | | | 6316 101 |

Source: Manual of the Construction Division of the Army, Section C, Engineer Division, Washington, DC, 1919. Plate 67.

TYPICAL HOSPITAL BUILDINGS
DESCRIPTION AND REFERENCE DRAWINGS
PAVILION TYPE

NOTE - BUILDINGS OF THIS TYPE ARE OF WOOD

| S.G.O. SYMBOL | BUILDING | SIZE | STORY | DESCRIPTION | CONST. DETAILS | ELECTRIC 632 | PLUMBING 632 | MECHANICAL 632 | STEAM | VACUUM | GR. QUANTITY |
|--------------------|---------------------------------------|----------------------------|-------|--|-------------------|--------------|--------------|----------------|-------|----------------|--------------|
| B | ADMINISTRATION | 33'-6" x 116' | 1 | OFFICES, ETC. | Z-1 | 254 | 254 | | | V | 254.6 |
| C | OFFICERS WARD | 84'-6" x 150'-6" | 1 | ROOMS, TOILET, MESS & KITCHEN | " | 227 | 227 | 537 | | | 226 " |
| D-D ¹ | " QUARTERS | 24' x 150' 24' x 35'-6" | 2 | CAP. 22 ROOMS 2 TOILETS | " | 157 | 157 | 537 | 257 " | | |
| E | NURSES QUARTERS | 84'-6" x 157' | 1 | CAP. 24 ROOMS, 2 TOILETS MESS AND KITCHEN | " | 282 | 282 | 537 | | | 281 " |
| F | LABORATORY | 24' x 104'-6" | 1 | EYE, EAR, THROAT, DENTAL & X-RAY | " | 266 | 266 | | | | 265 " |
| C | OPERATING PAVILION | 24' x 93' | 1 | PUS DRESSING ROOM AND CLEAN OPERATING ROOM, ETC. | " | 291 | 291 | | | | 290 " |
| H | POST EXCHANGE | 24' x 84' | 1 | STORE ROOM, BARBER SHOP BILLIARDS & LAVATORY | " | 203 | 203 | | | | 203 " |
| H | GARAGE & SHOP | 24' x 36' 24' x 150' | 1 | 6 AMBULANCES, CARPENTER, ETC. | " | | | | | 214 " | |
| I | MESS & KITCHEN | 24' x 150' | 1 | CAP. 280 MEN OR 10 PER SEATING | " | | 272 | | | 271 " | |
| I ²⁸ | GENERAL MESS & KITN | 108' x 120' | 1 | CAPACITY 300 SEATINGS | " | 1-28 | 663 | | | | 714 " |
| J | RECEIVING WARD | 84'-6" x 150'-6" | 1 | RECEIVING & DISCHARGING ROOM OBSERVATION, STORAGE, ETC. | " | 221 | 221 | 584 | 220 " | | |
| K | SINGLE WARDS | 24' x 150'-6" | 1 | CAP. 32 BEDS TOILETS OFFICE DIET KITCHEN | " | 190 | 190 | | | | 189 " |
| L | WARD & LABORATORY | 24' x 157' | 1 | CAP. 36 BEDS, TOILET, OFFICE, ETC. | " | 298 | 298 | | | | 297 " |
| M | ISOLATION WARDS | 24' x 150'-6" | 1 | CAPACITY 32 BEDS, OFFICE, ETC. | " | | 192 | 584 | | | 450 " |
| N & N ² | HOSPITAL CORPS BARRACKS & LAVATORY | 24' x 156' 24' x 30' | 2 | CAPACITY 42 BEDS, 4 ROOMS, ETC. | " | 225 | 151 | 537 | | | 224 " |
| O | STORE HOUSE | 24' x 150' | 1 | 2 OFFICES SHELVING ETC. | " | 211 | | | | 210 - 436 " | |
| P | CHAPEL | 24' x 58'-6" | 1 | CAPACITY 200 SEATINGS | " | | 201 | | | | 310 " |
| P | GUARD HOUSE | 24' x 36' | 1 | OFFICE GUARD RM PRISONERS RM | " | 322 | 322 | | | | 322 " |
| P | MORTUARY | 24' x 35'-6" | 1 | VIEWING RM, MORTUARY & POST MORTEM | " | | 218 | | | | 381 " |
| Q | LAUNDRY | 24' x 150'-6" | 1 | FOR EQUIPMENT SEE DRWG. Q ⁵ | " | | 310 | | | | |
| R | PSYCHIATRIC WARD | 24' x 162' | 1 | CAP. 10 BEDS, TOILET, EXAM. ROOMS, ROOMS, ETC. | " | 194 | 194 | | | | 193 " |
| | FIRE STATION | 31' x 87'-10" | 1 | APPARATUS | 620-365 SERIES | | | | | | |
| | BOILER HOUSE | 43' x 45'-6" | 1 | BOILER RM, PUMPS, FUEL | 412-2- | | | | | | |
| | RED CROSS | 100' x 100' | 1 | OFFICES, ASSEMBLY RM, SOLARIUM, ETC. | | | | | | | |

HEADHOUSE TYPE
 NOTE - BUILDINGS OF THIS TYPE ARE WOOD FRAME & STUCCO. FOR TILE BUILDINGS, SEE DENVER 6272-41.

| | | | | | | | | | | | |
|------|--|--------------------------|---|--|-------------------|------|-----|-----|--|--|-----------|
| B-9 | 2STORY ADMINISTRATION | 96' x 156' | 2 | OFFICES | Z13-28 | B-9 | 654 | | | | 701.6 |
| C-10 | " OFFICERS WARD | 48' x 222' | 2 | CAPACITY 69 BEDS, H-HOUSE AND QUIET ROOMS | " | C-10 | 653 | | | | 702 " |
| D-10 | " " QUARTERS | 50' x 56' | 2 | CAPACITY 49 OFFICERS 2 STAFF OFFICERS WITH LIVING RM, LAV, ETC. | " | D-10 | 662 | | | | 703 " |
| D-11 | " " QTRS, MESS & KITN | 30' x 156' | 2 | CAPACITY 100. | " | D-11 | 661 | | | | 704 " |
| E-10 | " NURSES QUARTERS | 30' x 156' | 2 | CAPACITY 51 BEDS | " | E-20 | 660 | 582 | | | 705 " |
| E-21 | " " QTRS & INFIR, 2 nd FL | 30' x 156' | 2 | CAPACITY 40 BEDS | " | E-21 | 656 | 582 | | | 706 " |
| E-22 | " " MESS & KITN | 30' x 156' | 2 | CAPACITY 250 | " | E-22 | 659 | | | | 707 " |
| F-21 | " LAB & MORTUARY | 32' x 108' | 2 | FOR EQUIPMENT, SEE DRAWINGS. | " | F-21 | 658 | | | | 708 " |
| G-7 | " SURGICAL WING (2 PLS) | 48' x 222' | 2 | 1 st FL PUS DRESSING, CLEAN OPRTG RM 2 nd EYE, EAR, NOSE X RAY & DENTAL DEPT. | " | G-7 | 655 | | | | 709-710 " |
| H-12 | 1 STORY GARAGE | 48' x 48' | 1 | CAP. 8 MACHINES, WASHING ROOM. | " | H-12 | | | | | 711 " |
| H-13 | " SHOP BUILDING | 32' x 108' | 1 | SHOP TAILOR, COBBLER, CARPENTER, BLACKSMITH, MATRESS REPAIR ETC. | " | H-13 | | | | | 712 " |
| H-14 | 2 " HOSPITAL EXCHANGE | 24' x 84' | 2 | STORE BARBER SHOP ETC. | " | H-14 | | | | | 713 " |
| I-28 | 1 " GENERAL MESS & KITN | 60' x 108' 36' x 180' | 1 | CAP. CAFE 530 MEN, GENL. MESS 330 MEN | " | I-28 | 663 | | | | 714 " |
| K-34 | 2 " WARDS (2 PLANS) | 48' x 222' | 2 | CAP. WARD 100 BEDS, H-HOUSE 10 BEDS LABORATORY & NURSES RETIRING RM. | " | K-34 | 664 | 584 | | | 715-716 " |
| M-3 | " ISOLATION WARD (2 PL) | 48' x 222' | 2 | CAP. 32 BEDS, H-HOUSE 10 BEDS LABORATORY & NURSES ROOM | " | M-3 | 666 | | | | 717-718 " |
| M-4 | " " " " | 48' x 222' | 2 | CAP. WING 52 BEDS, H-HOUSE 7 BEDS | " | M-4 | 665 | | | | 719-720 " |
| N-9 | " HOS CORPS BARRACKS | 36' x 168' | 2 | CAPACITY 100 BEDS | " | N-9 | 667 | 584 | | | 721 " |
| N-10 | HOS CORPS DETACHMENT BARRACKS, MESS & KITCHEN | 36' x 168' | 2 | CAP. 100 BEDS, CAFETERIA-625 SEATS | " | N-10 | | | | | 723 " |
| O-10 | 1 STORY STORE HOUSE | 52' x 120' | 1 | OFFICE STORE RM, SHELVING | " | O-10 | | | | | 724 " |
| P-6 | " CHAPEL | 34' x 54' | 1 | CAPACITY 350 | " | P-6 | | | | | 725 " |
| P-7 | " GUARD HOUSE | 24' x 60' | 1 | OFFICE, GUARD RM, PRISONERS RM. | " | P-7 | | | | | 726 " |
| Q | " LAUNDRY | 24' x 150'-6" | 1 | FOR EQUIPMENT SEE DRWG. Q ⁵ | Z13-28 | Q | 310 | | | | |
| R-4 | 2 " PSYCHIATRIC WARD | 48' x 222' | 2 | CAP. WARD 36 BEDS, H-HOUSE 20 BEDS LABORATORY & NURSES ROOM | " | R-4 | 657 | | | | 727-728 " |
| | " POWER HOUSE | 43' x 45'-6" | 1 | BOILER RM, PUMPS, FUEL | 412-2- | | | | | | |
| | " FIRE STATION | 31' x 87'-10" | 1 | APPARATUS | 620-341 SERIES | | | | | | |
| | RED CROSS | 100' x 100' | 1 | OFFICES, ASSEMBLY RM, SOLARIUM | | | | | | | |

Source: Manual of the Construction Division of the Army, Section C, Engineer Division, Washington, DC, 1919. 85.

DESCRIPTION OF REFRIGERATING AND ICE MAKING PLANTS
 REFRIGERATION SECTION ... CONSTRUCTION DIVISION ... WAR. DEPT.

| TYPE PLANT | BUILDING OVERALL AND CAPACITY | BEEL D NO. OF BOTTLE | PROVISIONS NO. 1 P | PROVISIONS NO. 2 P | ICE STORAGE | | | | COMPRESSOR CONDENSERS | | | | ICE MAKING | | | | MOTOR HP | MOTOR SPEED |
|------------|-------------------------------|----------------------|--------------------|--------------------|-------------|-----------------|-------|------|-----------------------|-------|------|-----------------|------------|------|--------|--------------|----------|-------------|
| | | | | | FLYING | PIPE | ROOM | TANK | PIPE | ROOM | TANK | PIPE | CONDENSER | PIPE | ROOM | TANK | | |
| A | 30000 | 110 | 1 1/2 | 1 1/2 | 625 | 34'-0" x 14'-0" | 1 1/2 | 775 | 31'-0" x 14'-0" | 1 1/2 | 2000 | 31'-0" x 14'-0" | 1 1/2 | 1000 | 30 FT. | 1-30 R.P. | 675-1016 | |
| B | 40000 | 160 | 1 1/2 | 1 1/2 | 750 | 34'-0" x 14'-0" | 1 1/2 | 950 | 31'-0" x 14'-0" | 1 1/2 | 2820 | 31'-0" x 14'-0" | 1 1/2 | 1400 | 30 FT. | 1-40 R.P. | 675-1019 | |
| C | 40000 | 160 | 1 1/2 | 1 1/2 | 750 | 34'-0" x 14'-0" | 1 1/2 | 950 | 31'-0" x 14'-0" | 1 1/2 | 2820 | 31'-0" x 14'-0" | 1 1/2 | 1400 | 30 FT. | 1-30 R.P. | 675-1014 | |
| D | 30000 | 110 | 1 1/2 | 1 1/2 | 625 | 34'-0" x 14'-0" | 1 1/2 | 775 | 31'-0" x 14'-0" | 1 1/2 | 2000 | 31'-0" x 14'-0" | 1 1/2 | 1000 | 30 FT. | 1-40 R.P. | 675-1004 | |
| E | 30000 | 110 | 1 | 1 | 750 | 34'-0" x 14'-0" | 1 | 775 | 31'-0" x 14'-0" | 1 | 2000 | 31'-0" x 14'-0" | 1 | 1000 | 30 FT. | 1-40 R.P. | 675-1212 | |
| F | 10000 | 40 | 1 | 1 | 450 | 34'-0" x 14'-0" | 1 | 450 | 31'-0" x 14'-0" | 1 | 600 | 31'-0" x 14'-0" | 1 | 300 | 30 FT. | 1-10 R.P. | 620-471 | |
| G | 20000 | 70 | 1 | 1 | 375 | 34'-0" x 14'-0" | 1 | 375 | 31'-0" x 14'-0" | 1 | 1200 | 31'-0" x 14'-0" | 1 | 600 | 30 FT. | 1-7 1/2 R.P. | 675-1211 | |
| J | 30000 | 110 | 2 | 2 | 850 | 34'-0" x 14'-0" | 2 | 850 | 31'-0" x 14'-0" | 2 | 3650 | 31'-0" x 14'-0" | 2 | 1800 | 30 FT. | 1-30 R.P. | 675-1100 | |
| K | 20000 | 70 | 2 | 2 | 650 | 34'-0" x 14'-0" | 2 | 650 | 31'-0" x 14'-0" | 2 | 3650 | 31'-0" x 14'-0" | 2 | 1800 | 30 FT. | 1-30 R.P. | 675-1199 | |
| L | 40000 | 160 | 2 | 2 | 1035 | 34'-0" x 14'-0" | 2 | 1035 | 31'-0" x 14'-0" | 2 | 4120 | 31'-0" x 14'-0" | 2 | 2000 | 30 FT. | 1-30 R.P. | 675-1198 | |
| M | 40000 | 160 | 2 | 2 | 1035 | 34'-0" x 14'-0" | 2 | 1035 | 31'-0" x 14'-0" | 2 | 4120 | 31'-0" x 14'-0" | 2 | 2000 | 30 FT. | 1-100 R.P. | 675-1197 | |
| N | 20000 | 70 | 2 | 2 | 650 | 34'-0" x 14'-0" | 2 | 650 | 31'-0" x 14'-0" | 2 | 3650 | 31'-0" x 14'-0" | 2 | 1800 | 30 FT. | 1-30 R.P. | 675-1199 | |
| O | 70000 | 260 | 3 | 3 | 1350 | 34'-0" x 14'-0" | 3 | 1350 | 31'-0" x 14'-0" | 3 | 4820 | 31'-0" x 14'-0" | 3 | 2400 | 30 FT. | 1-30 R.P. | 675-1192 | |
| P | 10000 | 40 | 1 | 1 | 450 | 34'-0" x 14'-0" | 1 | 450 | 31'-0" x 14'-0" | 1 | 600 | 31'-0" x 14'-0" | 1 | 300 | 30 FT. | 1-40 R.P. | 675-1217 | |

Source: Manual of the Construction Division of the Army, Section C, Engineer Division, Washington, DC, 1919. 150.

Category: ADMINISTRATION

Type 1 a: Fire Stations

Description:

The fire station housed fire fighting equipment to protect military installations from the threat of fire. Building size varied depending on the size of the installation and type of fire fighting technology. Examples of fire stations include one- and two-story buildings. A characteristic architectural feature of all fire stations is the large door openings that accommodated the fire fighting apparatus, first wagons and later trucks. Fire stations constructed before 1917 contained hose towers that projected above the roof and were used to dry the cotton fire hoses. During the 1930s, hose drying areas were incorporated into the interior of the building, which eliminated the exterior towers. When electric dryers were installed, the need for the hose tower was eliminated entirely.

Evolution:

Fire stations evolved as a separate property type during the late nineteenth century and reflected the development fire fighting technology. At temporary cantonments, soldiers used buckets of water or sand to fight fires. By 1876, the Quartermaster Department provided fire extinguishers as part of general provisions.¹ The consolidation of troops into larger, more substantial installations during the 1880s and 1890s required the Quartermaster Department to plan for fire emergencies. With more buildings to protect, the Quartermaster Department acquired fire fighting equipment and designed buildings to house it. The earliest Quartermaster-standardized plans for a separate firehouse date from 1894.² These fire stations were small buildings with a hose tower and two major door openings. Larger installations often had two or more of these small firehouses to provide adequate protection in an era of fire fighting equipment drawn by horse or human power. A one-story firehouse contained only the fire fighting apparatus, while two-story buildings also contained personnel quarters for personnel on the upper floor.³ The two-story firehouse was constructed from the late nineteenth century through the 1930s.

In 1916, the Quartermaster Department issued a standardized plan that combined the functions of fire station and guardhouse.⁴ This combination became the prevalent design during the late 1920s and the 1930s. During the 1930s, the Army introduced motorized fire fighting equipment and consolidated fire stations at central locations on installations. Often the fire station commanded a prominent location at the junction of major streets. During the widespread

¹ David A. Clary, *These Relics of Barbarism: A History of Furniture in Barracks and Guardhouses of the United States Army, 1800-1880*, MSS, U.S. Department of the Interior, National Park Service, Harpers Ferry Center, West Virginia, 1983, 165-166.

² National Archives and Records Administration, Cartographic Branch, Record Group 77, Standard Plans of Army Post Buildings, 1891 - 1918, P.I. NM-19, Entry 411, Plan 98.

³ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plan 232.

⁴ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plan 421.

rebuilding of Army posts and airfields during the 1930s, the fire station became a major element of the overall installation plan and reflected the installation's architectural character.

Association:

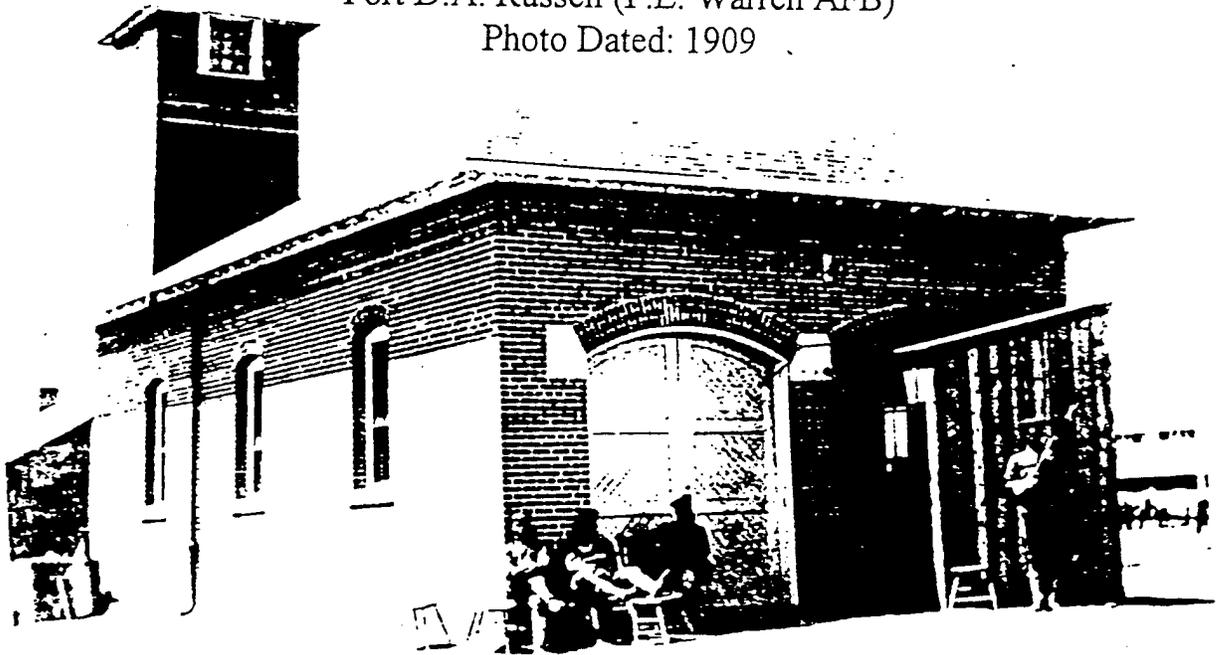
Fire stations are associated with the development and modernization of permanent military installations, starting in the late nineteenth century. Fire stations located on installations established before the Civil War probably were added during the late nineteenth century. During the twentieth century, fire stations became a standard feature of military installations. Often fire station design reflects the military's adaptation of contemporary architectural styles to installation construction.

Fire stations are support facilities for an installation, and are not related directly to the installation mission. Fire stations generally are not associated with significant historical events and usually do not possess individual historical significance, but can be a contributing building to an historic district. If the building has a prominent location in the overall plan of the installation, it can be a major architectural element that contributes to the architectural character of the installation.

Integrity:

To possess the integrity necessary to convey its significance, a fire station should retain most of its original design, materials, workmanship, and setting from its period of construction. Character-defining features of fire stations include hose towers in pre-1917 buildings, wide door openings, original doors, and the overall pattern of openings. In addition, fire stations built as part of installation master plans, as was common during the 1930s, possess design features common to the architectural character of the installation that are important elements to the building's integrity. Typical alterations to this building type include infilling original doorways and replacement of original doors. In cases of subsequent additions or renovations, the building may have integrity if it has retained the majority of its character-defining features, particularly its setting in an overall plan, basic form, materials, and pattern of openings.

Fire House
Fort D.A. Russell (F.E. Warren AFB)
Photo Dated: 1909



Category: ADMINISTRATION

Type 1 b: Guardhouses/Gatehouses/Sentry Boxes

Description

Guardhouses served as installation prisons and the office of the guard. Separate guardhouses were common components of Army posts. They were generally one story, rectangular buildings, often with a basement, and a large hipped roof. Gates, gatehouses, and sentry boxes are structures placed at major access points, often along roadways, to monitor the entrances to an installation; they usually are one-story buildings. Military prisons are discussed in a separate chapter in this volume.

Evolution:

The guardhouse evolved as a separate building type, notably at frontier posts, after the Army stopped the construction of walled or fortified installations during the mid-nineteenth century. Access at permanent masonry fortifications was controlled through sally ports or gates. Without surrounding fortifications, the free-standing guardhouse evolved to serve as the central point to guard the post and hold prisoners. Guardhouses contained the office of the Officer of the Guard, the guard room for men assigned to guard duty, and the prison. The guardhouse often was located near the main entrance to the post. At frontier forts, where the isolated post could be approached from many directions, the guardhouse was located apart from the main parade ground, often behind the barracks.

Proposed plans for a guardhouse published in 1860 unofficial Army regulations depict a one-story building with a horizontal emphasis similar to other one-story buildings suggested by these proposed regulations. Proposed plans designed by Quartermaster General Montgomery C. Meigs in 1872 illustrate a guardhouse with two separate portions joined together by a sally port. No examples of Meigs' standardized guardhouse design were located during the course of this study.⁵

The typical guardhouse constructed during the late nineteenth century was a one-story, square or rectangular building with a hipped roof and a full-facade veranda. Guardhouses without basements sometimes were constructed as imposing two-story buildings. During the 1880s, the basic guardhouse design incorporated a porch under the principal roof, dormer windows, and spindle woodwork that echoed the decorative features popular in late Victorian designs.

At the beginning of the twentieth century, the guardhouse retained the same basic shape as those of earlier times, but Colonial Revival details replaced the earlier Victorian-era details. In general, the size of the building increased as the sizes of individual installations increased.⁶

⁵ War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*. Washington, DC, George W. Bowman, 1861, 4; War Department, *Report of the Quartermaster General*, Washington, DC, Government Printing Office, 1872, 280.

⁶ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plan 421.

By the 1930s, the guardhouse served primarily as a detainment center and was located near the center of the installation. The Army during this period often combined guardhouses and fire stations in one building. The earliest Quartermaster-standardized plan combining the two functions in one building is dated 1916.⁷

When guardhouses were combined with fire stations, separate gatehouses and sentry boxes were constructed to monitor the entrances to an installation. The earliest Quartermaster standardized plan for a gate lodge appeared in 1911.⁸ During the late 1920s and 1930s, gatehouses proliferated as automobile traffic increased. Gatehouses generally were small, unassuming buildings constructed in the installation's prevalent building style, generally Georgian Colonial Revival or Spanish Colonial Revival.

Association:

Guardhouses, gatehouses, and sentry boxes are associated directly with the development of military installations after the Civil War and are minor installation building types. Their importance to the overall installation plan depends on their location and architectural prominence. If situated in a central location or along a defining boundary, these buildings can contribute to an historic district. Isolated sentry posts or guardhouses may not possess important associations with historic events or trends, but they may be a contributing element in a discontinuous historic district. If they retain a high degree of integrity, they may embody the distinctive characteristics of the building type.

Integrity:

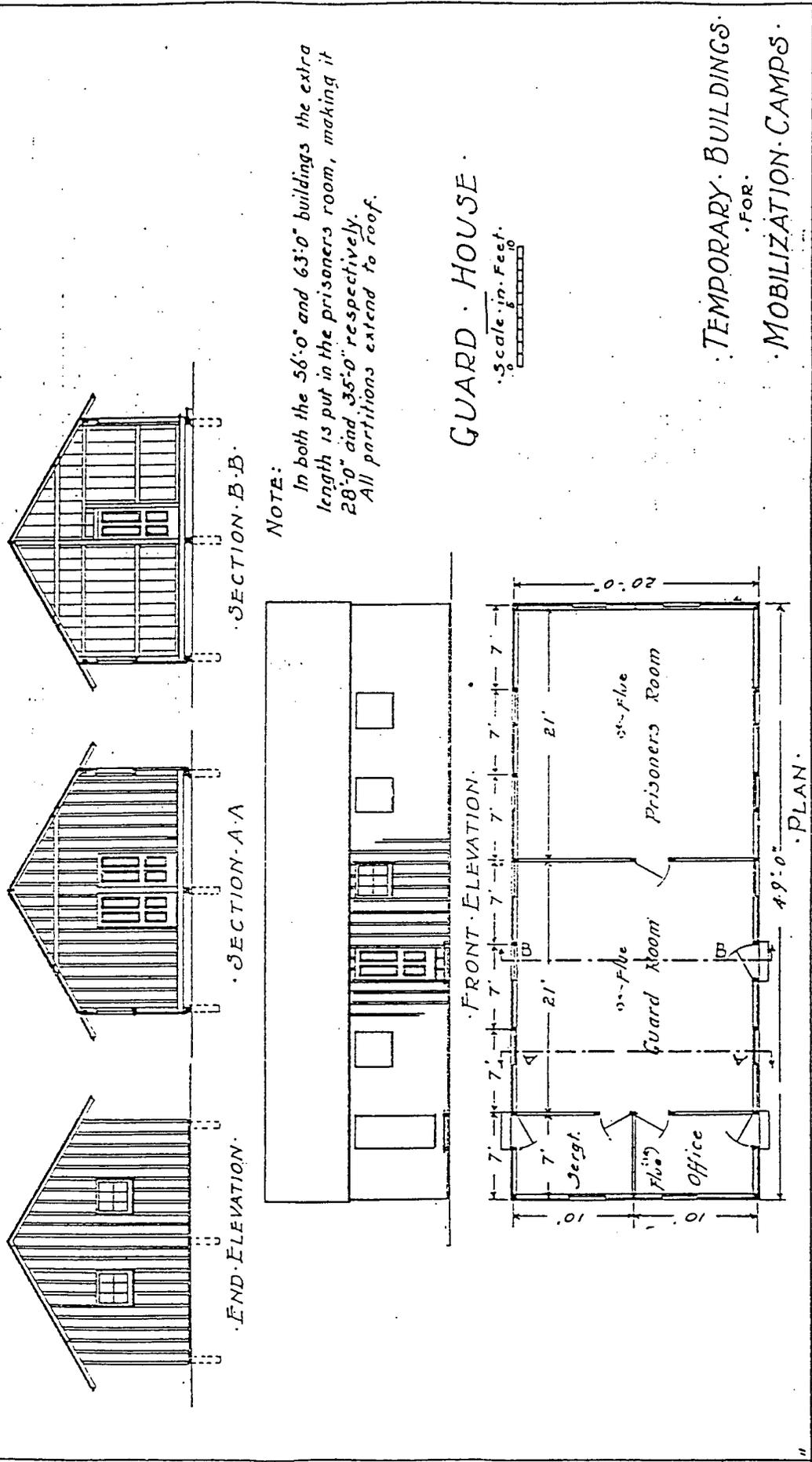
To possess the integrity necessary to contribute to an historic district or to convey its individual significance, guardhouses and gatehouses should retain most of their original design, materials, workmanship, and setting from the period of their construction. Where buildings have undergone subsequent additions, renovations, or removal of architectural elements, the buildings still can possess integrity if they retain the majority of their historic features, such as materials, basic form, roof shape, and porch.

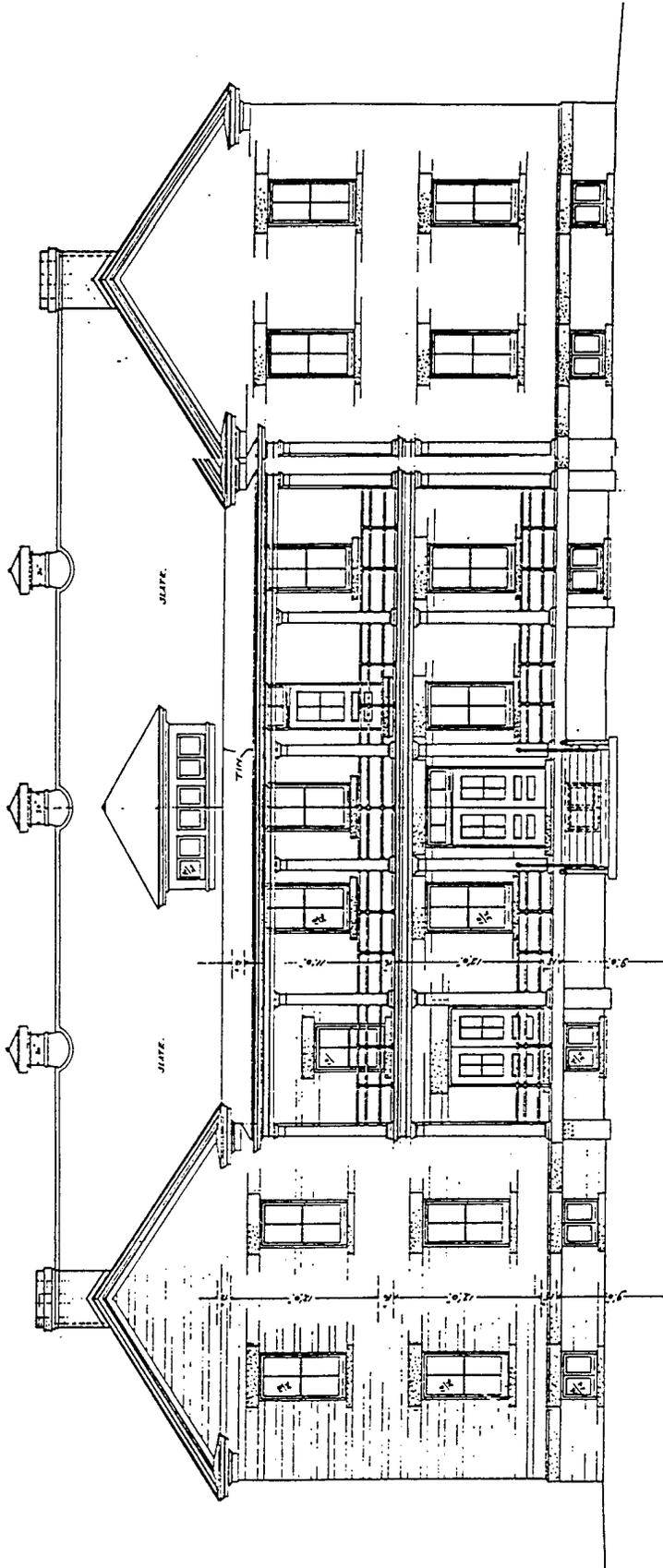
⁷ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plan 296.

⁸ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918.



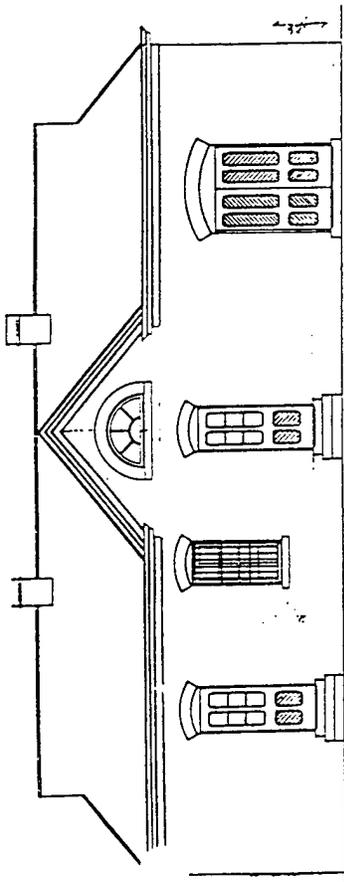
1911 Guard House at (Fort D.A. Russell) F.E. Warren AFB, Wyoming



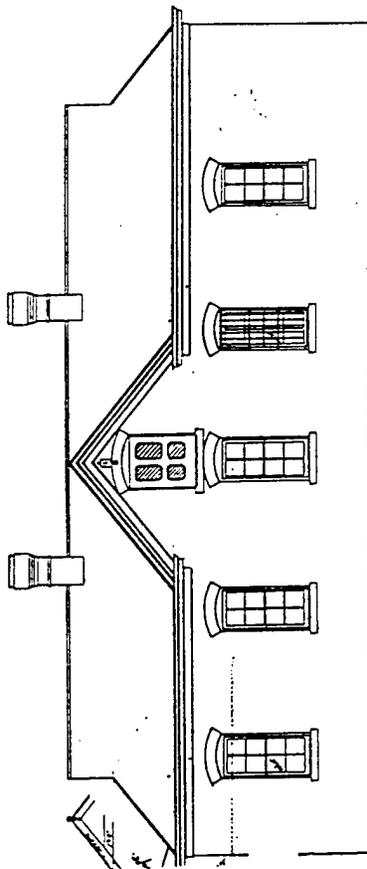


FRONT ELEVATION.
SCALE 1/4" = 1'.

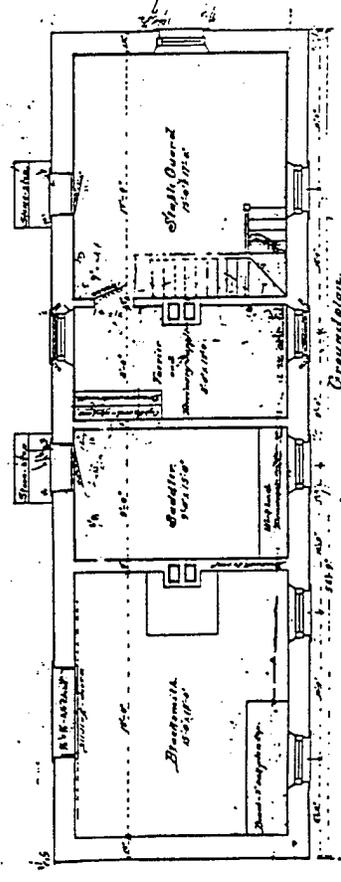
U. File A13-9
 ARTILLERY GUARD HOUSE.
 FORT RILEY, KANS. CO. TO MAY 1908.
 JOSEPH L. AYER.
 NO 408.06.c11



Elevation South side.



Elevation North side.

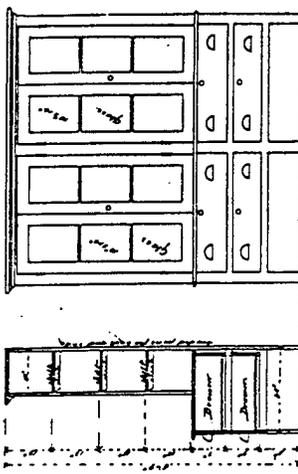


Ground plan.

Plan, Elevations & Section
of
County Stable Guard Building
at
Fort Riley, Kansas.
Scale 1/8" = 1'

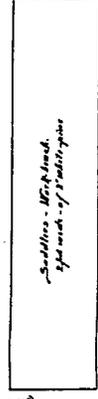
Contracting & Architectural Office
Fort Riley, Kansas, September 2, 1914
George Rubben
Engineer & Architect
In Charge of Construction

Cabinet & Drawers for Dining Supply.
Scale 1/8" = 1'



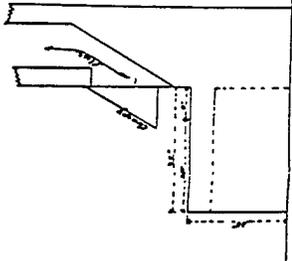
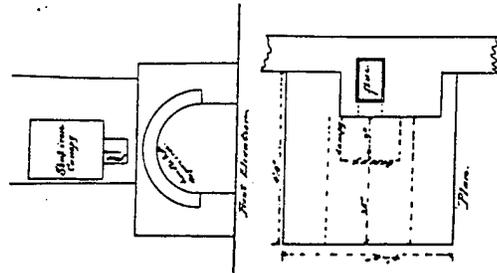
Cabinet

Elevation



Elevation

Detail for Sigs.
Scale 1/8" = 1'



Side Elevation.

Sheet - 73
File A14-1

1914 1915 1916 1917 1918 1919 1920

Category: ADMINISTRATION

Type 1 c: Headquarters Buildings, Administration Buildings, and Office Buildings

Description:

The headquarters building was the main office building of the installation and represented its administrative center. The administration building generally was placed in a prominent location that reflected its position as the center of command. At nineteenth- and early twentieth-century Army posts, the headquarters building was built facing the parade ground. The headquarters building usually was among the most elaborate buildings at permanent military installations and often exhibited high-style architectural design typical of its period of construction.

Evolution:

Early and mid nineteenth-century administration buildings on Army posts contained multiple uses. The unofficial Army regulations published in 1860 recommended that administration buildings contained one office for the commanding officer, an office for other staff, a courtroom, and a library. The 1860 regulations depict a small, one-story administration building constructed of locally available materials with little architectural adornment.⁹

When the Army consolidated troops at larger installations during the 1880s and 1890s, the administration building increased in size to accommodate more administrative functions. The headquarters building reflected the Army's permanent presence in a locality. The building generally was located in a prominent position overlooking the parade ground. The architectural character of the building matched contemporary architectural design and embodied the general architectural character of the installation.

The Quartermaster Department developed standardized plans for administration buildings for these new permanent installations. During the 1880s and early 1890s, the Quartermaster Department designed administration buildings using the popular Victorian styles. In 1894, the Quartermaster Department introduced Colonial Revival and Classical Revival designs for administration buildings. The popularity of Colonial Revival and Classical Revival continued until 1940. Some exceptions to the Georgian Colonial Revival also were built. In 1910, the Quartermaster Department issued a Spanish Colonial Revival design for administration buildings for use in the Southwest.¹⁰

During the twentieth century, administration buildings continued as multiple-use structures and grew in size to accommodate the oversight of larger installations. The required staff offices increased to include separate offices for a post adjutant, a sergeant major, and several clerks. Additional rooms were added to contain specific functions, including a records room and a court-

⁹ War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States*, 1860, 4.

¹⁰ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plans 76, 94, 99, 122, 169, 392.

martial room. The second story included a variety of other uses, including library, school room, reading room, or assembly hall. Quartermaster standardized plans dated 1905 show the introduction of post office. In 1909, telegraph and telephone rooms were included in the administration building. Basements were used for storage rooms and other support rooms.¹¹

The consolidation of troops on larger installations led to multiple headquarters buildings at posts. During the early and mid-nineteenth century, each post usually served a single mission. When the Army assigned troops with different missions to one installation, they often constructed the equivalent of two separate posts side by side with separate facilities that included separate administration buildings. At Ft. Riley, for instance, the cavalry post and artillery post each had a headquarters building.

During the late nineteenth century, some Army installations housed two command structures: post-level and regional- or district level. At Ft. Leavenworth, one building was built to serve as post headquarters, while a former ordnance building was adapted for the offices of the Department of the Missouri. After the reorganization of the Army at the beginning of the twentieth century, administration buildings were designed purposely to contain offices for overlapping levels of jurisdiction, such as the district administration and the post administration. The increasing volume of administrative duties required the enlargement of administration buildings.

By the 1930s, the expansion of multiple levels of administrative duties again resulted in the construction of separate buildings to house the organizational hierarchy. At Barksdale AFB, for example, separate office buildings were constructed for the post and group headquarters.

Administration buildings constructed as part of the wave of new construction authorized by Public Law No. 45, enacted in 1926, followed Quartermaster standardized plans for Georgian Colonial Revival, Spanish Colonial Revival, and French Colonial Revival architectural designs. The buildings no longer faced a central parade ground, but commanded a prominent position within a general master plan that divided the post into functional areas connected by a planned street pattern. Room for individuality still remained; the headquarters building at Randolph AFB was designed specifically for the Texas training field and came to symbolize 1930s Army aviation.

The growth of administrative functions in the years before the Second World War resulted in the construction of additional building types, as headquarters buildings no longer could accommodate the many offices required to administer a post. The Quartermaster Department designed separate buildings for specific functions including recreation, post office, and communications. Construction of new building types to contain these other functions began during the first decade of the twentieth century and continued through the 1930s, leaving the headquarters building to house only offices. This specialization contributed to the growth in size and complexity of installations.

¹¹ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plans 99-C, 99-D, 254.

Association:

The headquarters building of an installation may be individually eligible for the National Register or may be a major contributing building to an historic district. The headquarters building is a major building type that may possess significance because of historical associations with significant events or individuals or because of architectural merit. As the administrative center, the headquarters building is associated closely with the historical significance of the installation and its role in U.S. history. Examples of this property type also may represent the work of significant architects, embody the distinctive characteristics of a type or period of construction, or have artistic merit. Headquarters buildings often displayed high-style architectural design reflecting their periods of construction; they were among the most elaborately ornamented buildings constructed at permanent installations and were placed at a prominent location in an overall installation plan, particularly at installations that were built according to a master plan over a short span of time.

Integrity:

To possess the integrity necessary to convey its significance, a headquarters building should retain most of its original design, materials, workmanship, and setting from its period of significance. The period of significance may extend over the many years that the headquarters building served as the administrative and symbolic center of the installation. Modifications to the building may have acquired significance if they are related to the building's period of significance. As a result of the increased size and complexity of administrative functions, few pre-1940 headquarters buildings continue to serve as the current installation or activity headquarters. Where subsequent additions or renovations have modified or removed architectural elements, the building still can possess sufficient integrity if it retains the majority of the features that compose its design, including massing, spatial relationships, proportion, pattern of openings, materials, and ornamentation.

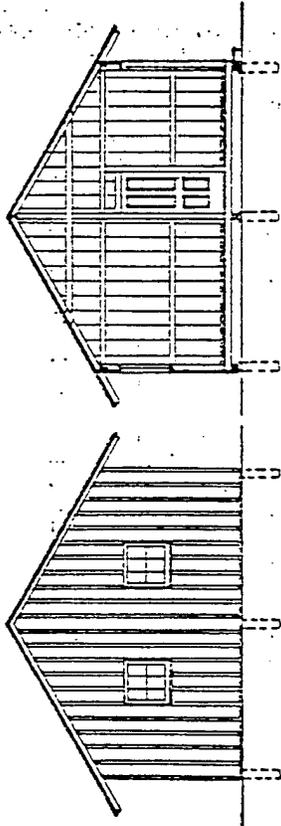


1900 Post Headquarters at (Fort D.A. Russell) F.E. Warren AFB, Wyoming



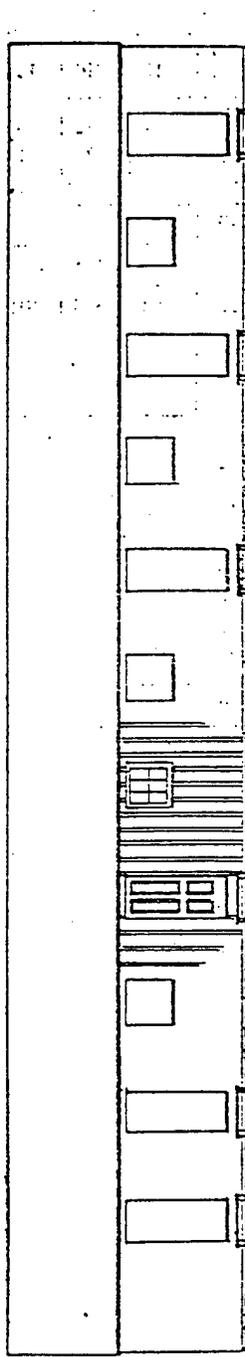
1905-06 Administration Headquarters at Fort Worden, WA

NOTE: All partitions extend to roof.



SECTION.

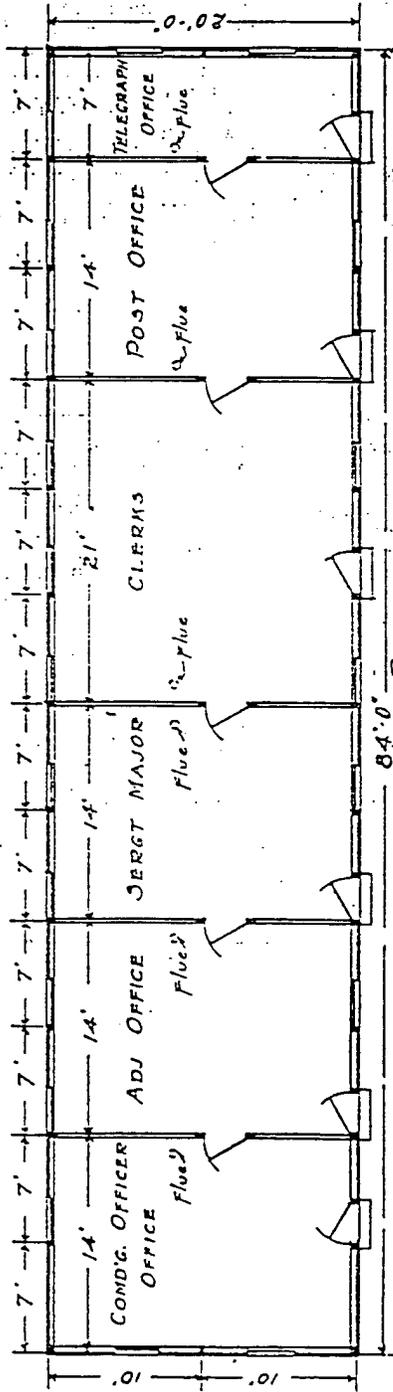
END ELEVATION.



FRONT ELEVATION.

ADMINISTRATION BUILDING.

Scale - in. Feet.
0 5 10



84'0" PLAN.

TEMPORARY BUILDINGS.
FOR
MOBILIZATION CAMPS.

APPENDIX No. 10-10.

16-10

Proposed Administration Building

remodeled from present hospital

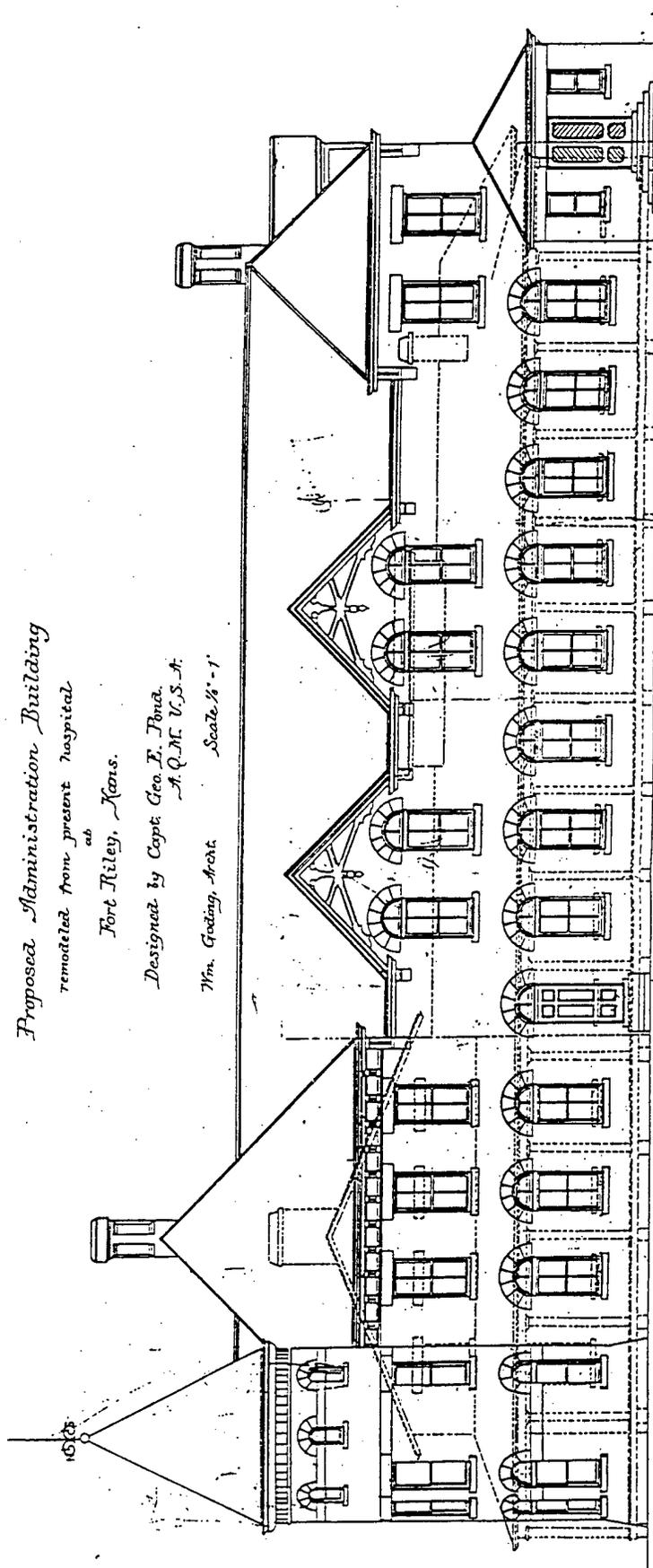
Fort Riley, Kans.

Designed by Capt Geo. F. Bond.

A. Q. M. U.S. A.

Wm. Goings, Archt.

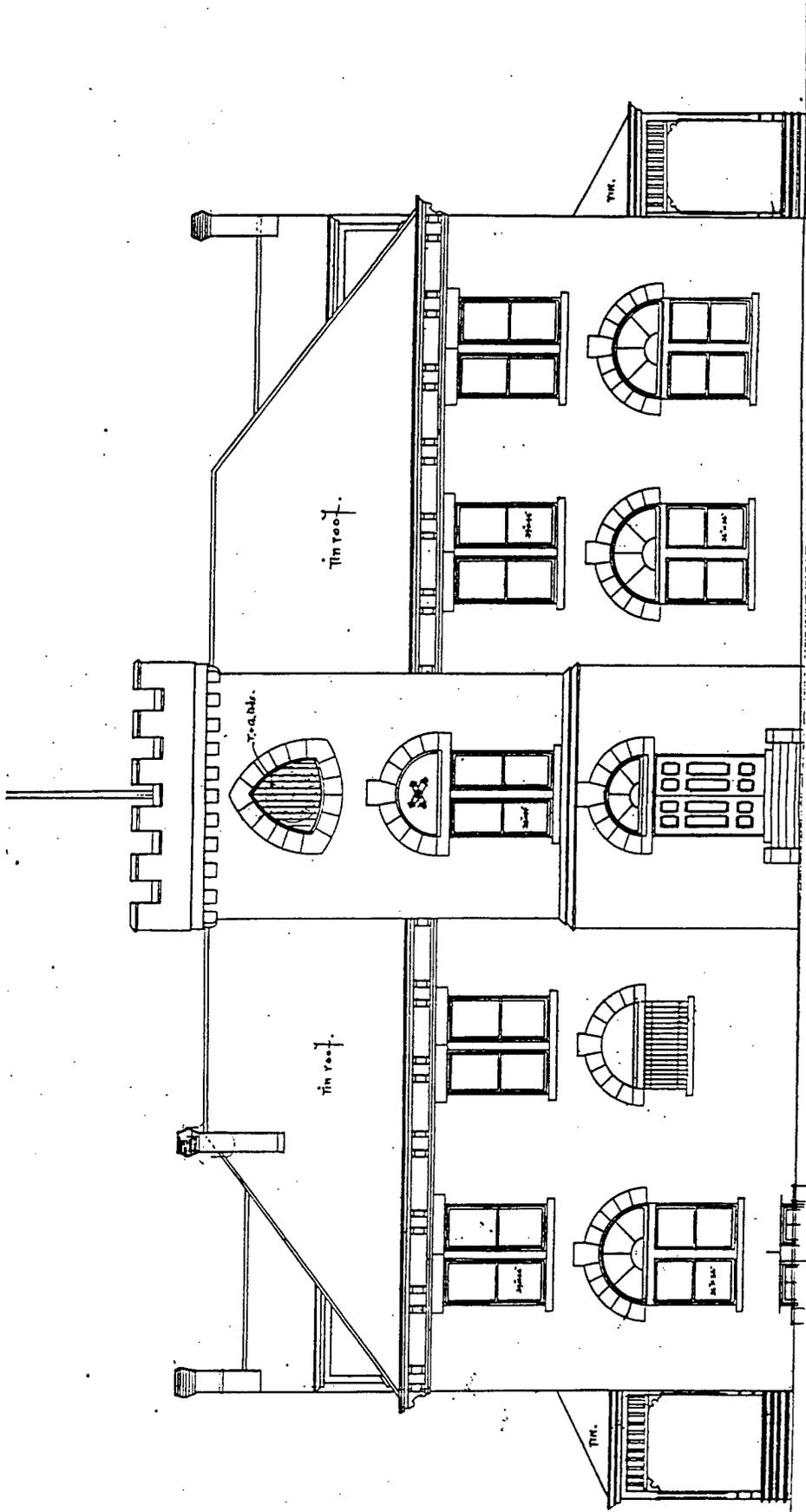
Scale 1/2" = 1'



West Elevation
Scale 1/2" = 1'

Sheet - 1/6
File A 13-2

h0 205_09.cit 18285_88.CIT



Front Elevation.

Scale 1/4" = 1'

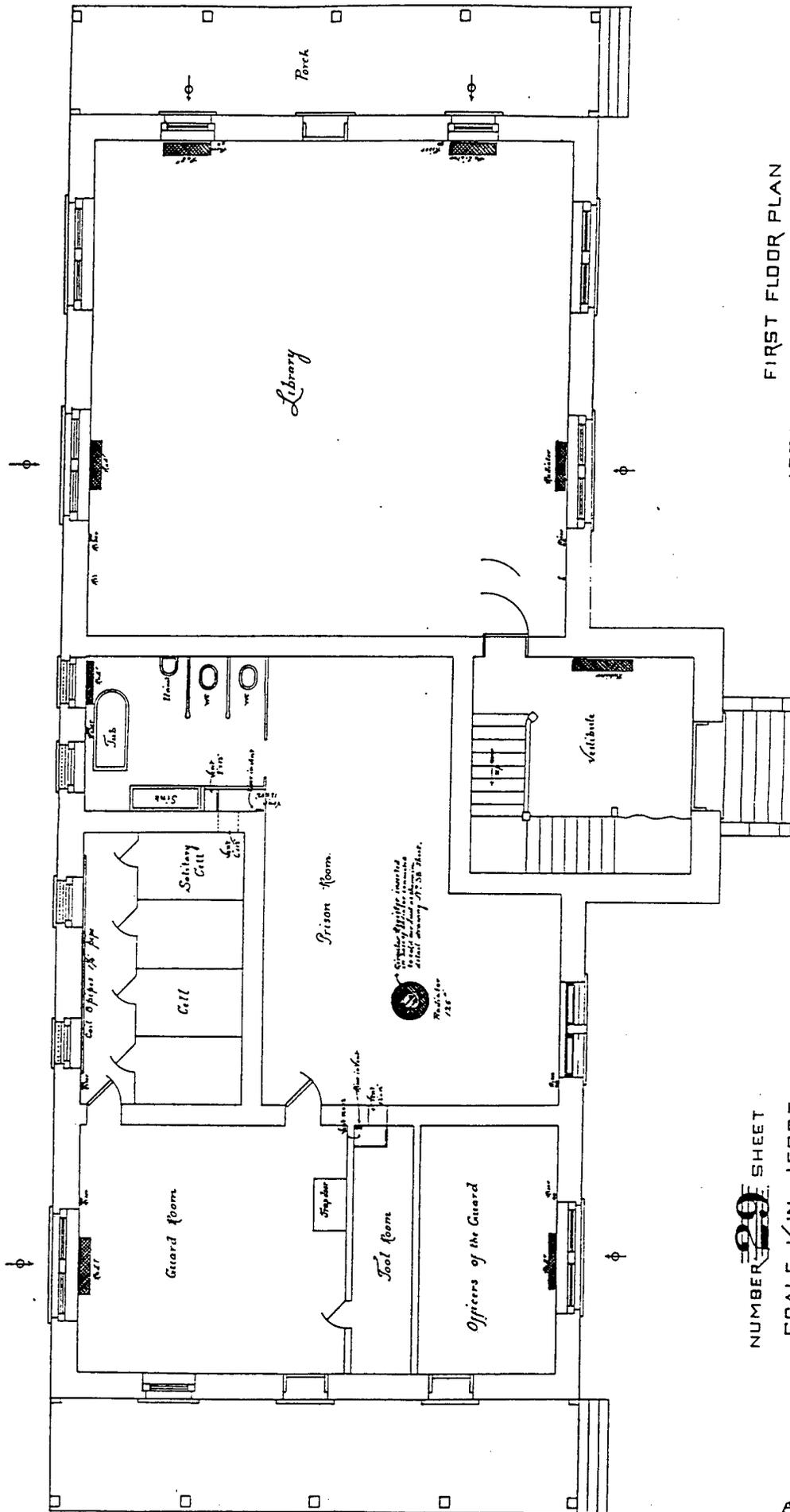
ADMINISTRATION BUILDING
 Artillery Post, Fort Riley, Kansas
 Designed by
 CAPT. GEO. E. POND, A.Q.M., U.S.A.
 1887

U File A13-3.

HO403_02.CIT

403

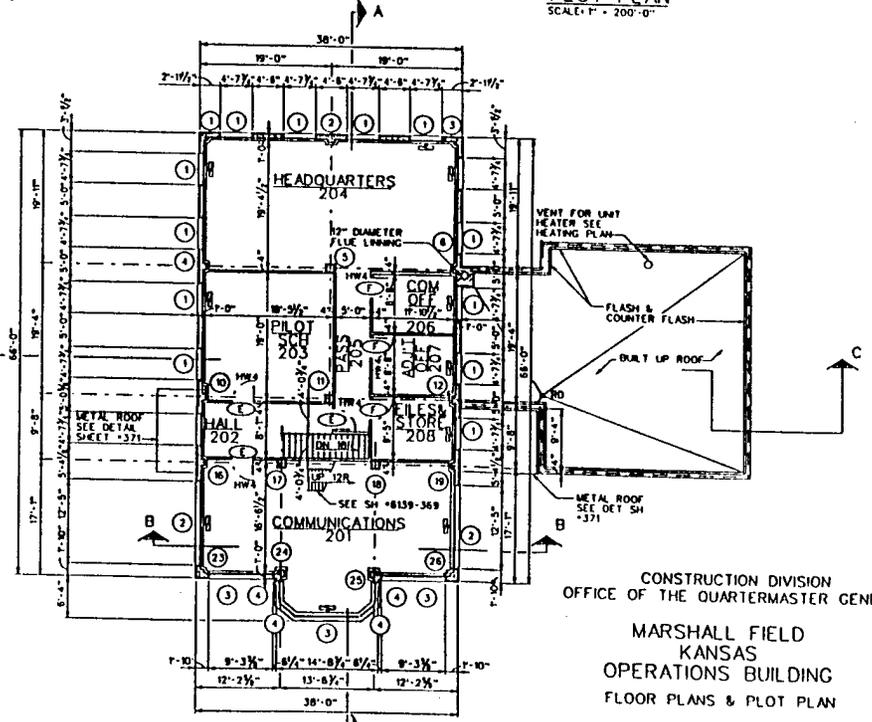
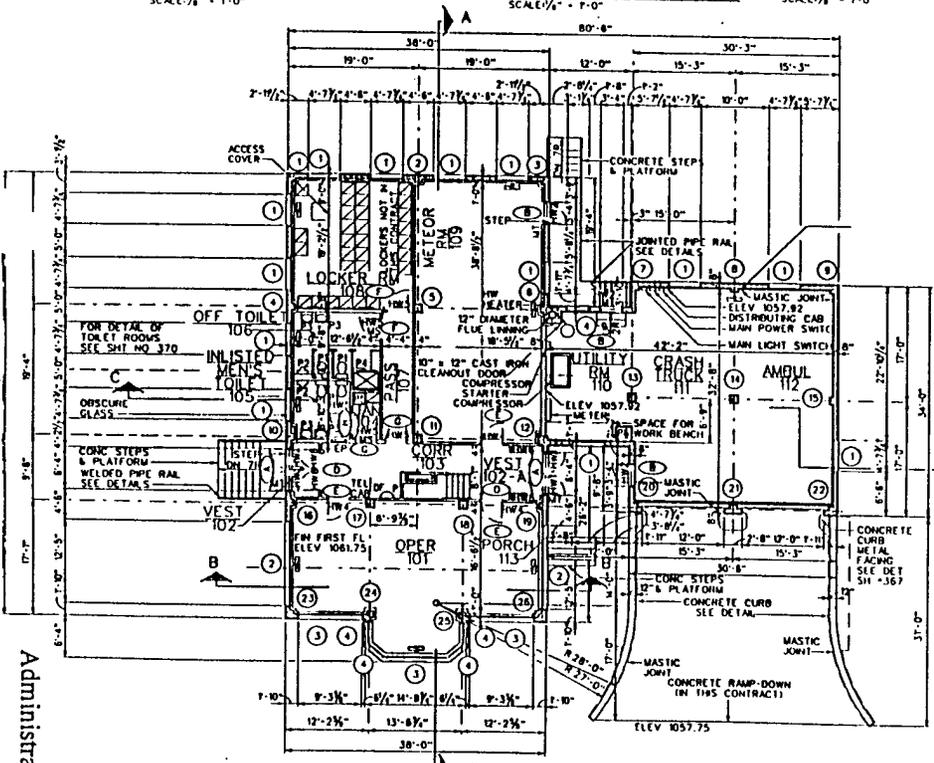
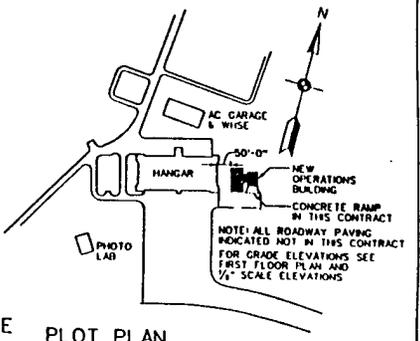
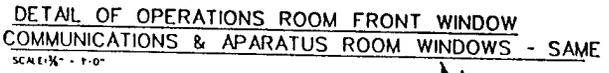
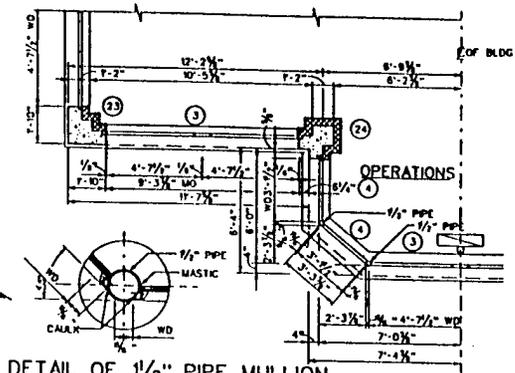
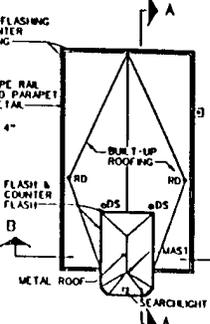
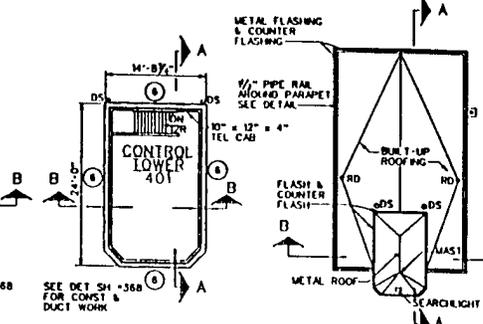
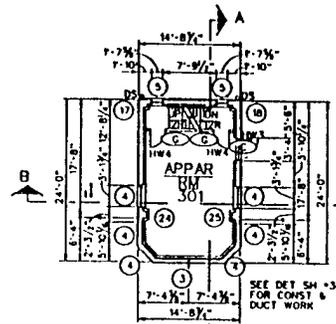
h0 403_02.cit



FIRST FLOOR PLAN
 ARTILLERY ADMINISTRATION BUILDING
 FORT RILEY KANSAS
 CLASS 'G'

NUMBER **29** SHEET
 SCALE 1/4" = 1 FOOT
 HEIGHT OF CEILING 14'3"
 Arrows -> denote air vents as shown
 on Detail Sheet No. 39

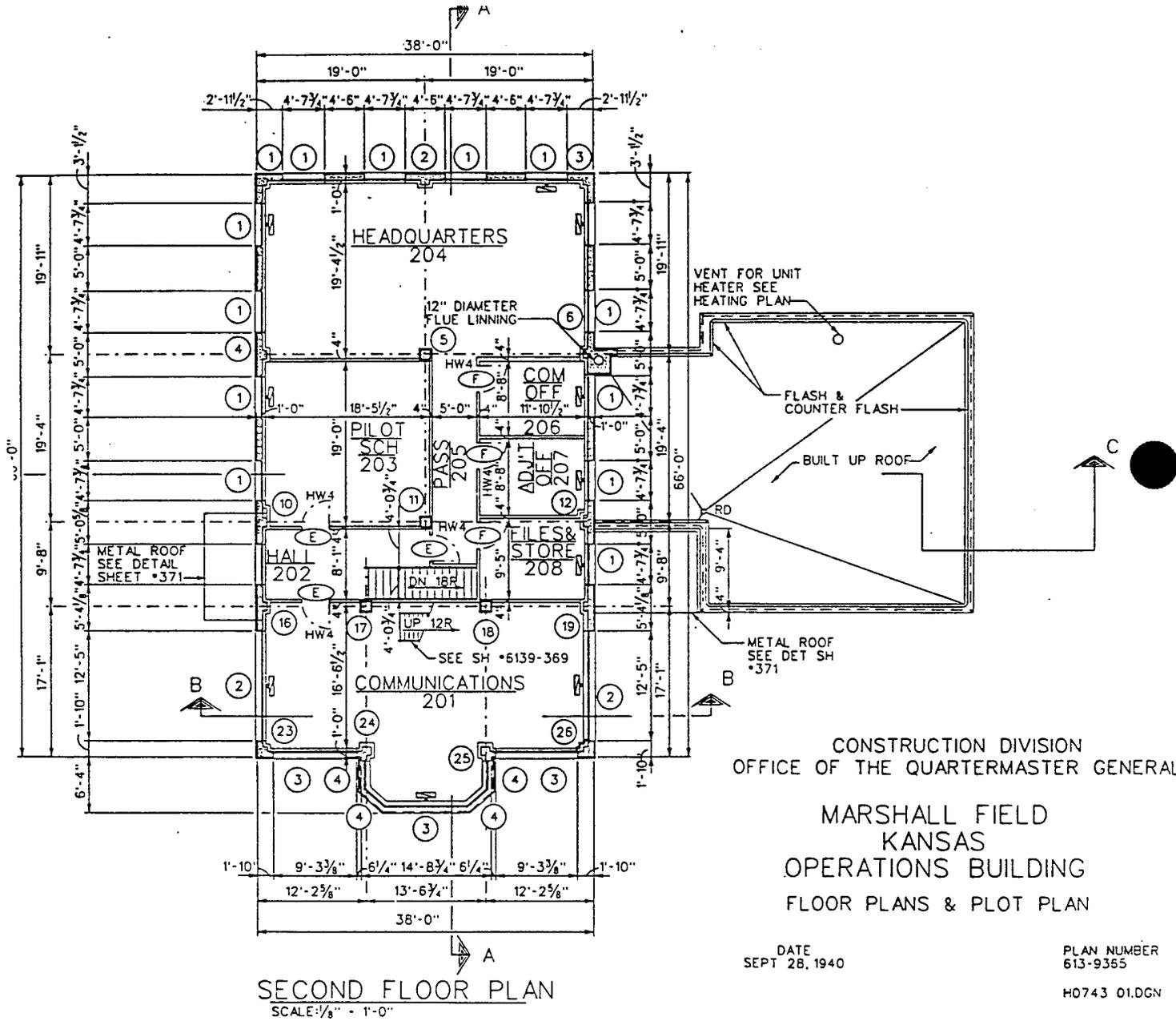
Sheet-29
 U File A19-3
 HO 403.29.c1



Administration - 91

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
MARSHALL FIELD
KANSAS
OPERATIONS BUILDING
FLOOR PLANS & PLOT PLAN

DATE
SEPT 20, 1940
PLAN NUMBER
615-9365
H0743 01DCH



Category: ADMINISTRATION

Type 1 d: Post Offices

Description:

Military post offices received and distributed installation mail. Until the early 1900s, most installation post offices were housed within the headquarters or administration building. Post offices constructed before 1940 generally were one-story buildings with minimal stylistic references.

Evolution:

Separate buildings to house communications functions did not appear at Army installations until the twentieth century. Until that time, the central administration building could handle the volume of mail received on an installation. Mail was delivered to the main headquarters building and distributed by hand to the troops. During the twentieth century, the post administration grew more complex as the installation expanded, and the function of handling mail was shifted out of the administration building into a specialized post office building type. In 1905, the Quartermaster Department included a separate room for use as a post office in standardized plans for administration buildings. In 1906, the Quartermaster Department issued a standardized plan for a post/telegraph office. In 1907, a separate Quartermaster standardized plan was issued for a post office.¹² Despite the post office standardized plan, the construction of separate post office buildings was not widespread, even during the 1930s construction era. In some cases, the post office was combined with another use, for example the combined post office-Masonic Hall at Ft. Leavenworth, Kansas.

Association:

Post office buildings are associated with the growth of administration needs on military installations after the turn of the century. A post office was one of a number of support facilities constructed to house the expanding administrative functions of an installation. Post offices located on nineteenth-century installations were added to the installation. The post office architecture reflected the military's adaptation of contemporary architectural styles to installation construction.

As a support facility for an installation, a post office generally does not possess individual significance. It can be a contributing element in an historic district when it is part of a concentration of historically significant buildings and retains integrity. In other cases, the building may be isolated from a potential historic district, and then should be evaluated for its individual significance.

¹² NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1919, Plans 99-C, 177, 177A.

Integrity:

To possess sufficient integrity to be considered a contributing building in an historic district, post office buildings should retain most of their original design, materials, workmanship, and setting from the period of significance of the historic district. In the case of subsequent additions or renovations, the building still may possess integrity if it retains the majority of its character-defining features, including overall form, materials, proportion of openings, relationship to its setting, and architectural details.

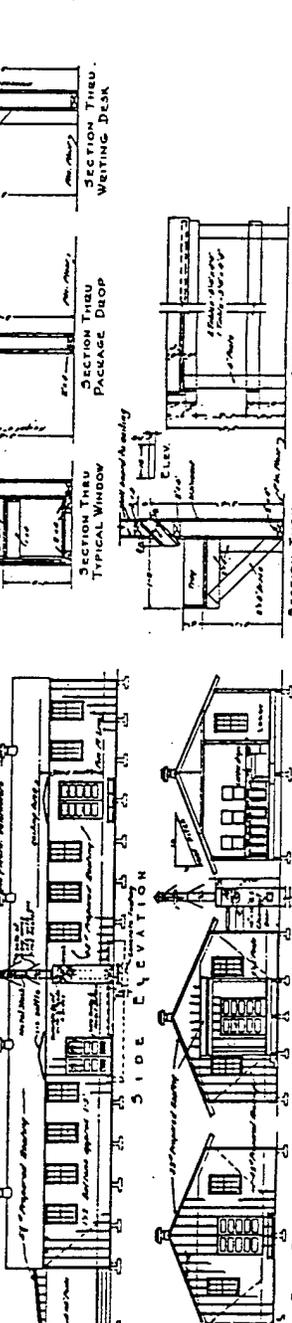
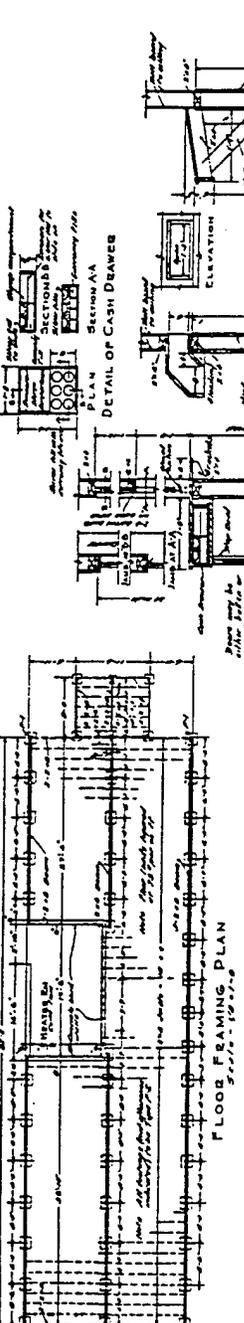
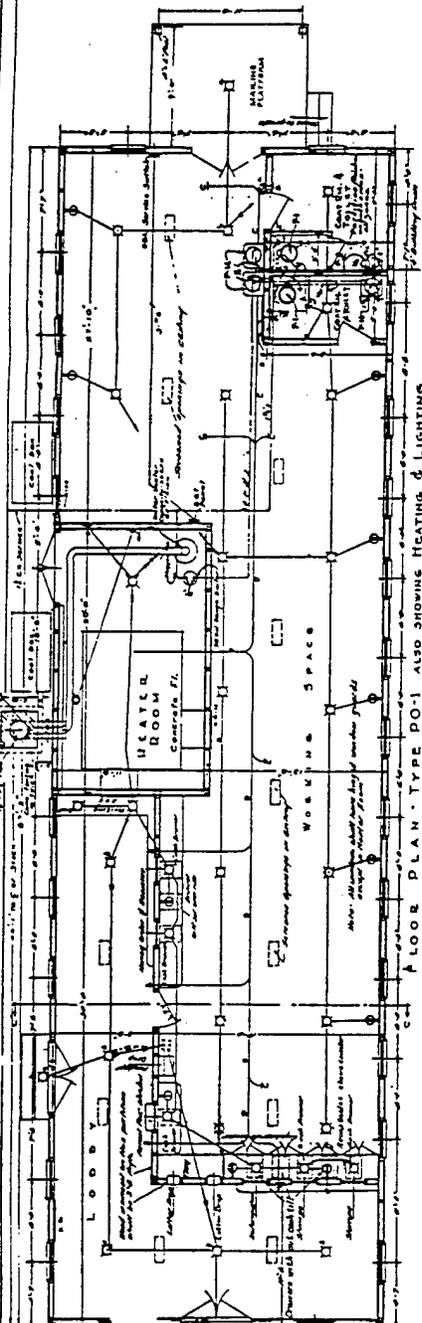


1890 s Post Office at Fort Monroe, VA

| HEATING | | SCHEDULE | | DUCT SIZES | |
|---------|-------|----------|------|------------|---------|
| SYSTEM | TYPE | PO-1 | PO-1 | TYPE | SIZE |
| 1 | WATER | 1 | 1 | A | 3" x 3" |
| 2 | WATER | 2 | 2 | B | 2" x 2" |
| 3 | WATER | 3 | 3 | C | 1" x 1" |
| 4 | WATER | 4 | 4 | D | 1" x 1" |
| 5 | WATER | 5 | 5 | E | 1" x 1" |
| 6 | WATER | 6 | 6 | F | 1" x 1" |
| 7 | WATER | 7 | 7 | G | 1" x 1" |
| 8 | WATER | 8 | 8 | H | 1" x 1" |
| 9 | WATER | 9 | 9 | I | 1" x 1" |
| 10 | WATER | 10 | 10 | J | 1" x 1" |

| SECTION | TYPE | PO-1 |
|---------|-------|------|
| 1 | WATER | 1 |
| 2 | WATER | 2 |
| 3 | WATER | 3 |
| 4 | WATER | 4 |
| 5 | WATER | 5 |
| 6 | WATER | 6 |
| 7 | WATER | 7 |
| 8 | WATER | 8 |
| 9 | WATER | 9 |
| 10 | WATER | 10 |

NOTES:
 1. Heating system is of the hot water type.
 2. Radiators are of the cast iron type.
 3. Pumps are of the centrifugal type.
 4. Pipes are of the galvanized iron type.
 5. Valves are of the globe type.
 6. Air vents are of the automatic type.
 7. Expansion tank is of the steel type.
 8. All piping is to be installed in accordance with the code of the City of New York.
 9. All piping is to be installed in accordance with the code of the State of New York.
 10. All piping is to be installed in accordance with the code of the Federal Government.



NOTES:
 1. The building is to be constructed in accordance with the code of the City of New York.
 2. The building is to be constructed in accordance with the code of the State of New York.
 3. The building is to be constructed in accordance with the code of the Federal Government.
 4. All materials are to be of the best quality.
 5. All work is to be done in accordance with the specifications.
 6. The contractor is to be responsible for the completion of the building.
 7. The contractor is to be responsible for the maintenance of the building.
 8. The contractor is to be responsible for the repair of the building.
 9. The contractor is to be responsible for the replacement of the building.
 10. The contractor is to be responsible for the demolition of the building.

700-218
 700-221
 700-222
 700-223
 700-224
 700-225

| SECTION | TYPE | PO-1 |
|---------|-------|------|
| 1 | WATER | 1 |
| 2 | WATER | 2 |
| 3 | WATER | 3 |
| 4 | WATER | 4 |
| 5 | WATER | 5 |
| 6 | WATER | 6 |
| 7 | WATER | 7 |
| 8 | WATER | 8 |
| 9 | WATER | 9 |
| 10 | WATER | 10 |

| REVISION | DATE | BY | REASON |
|----------|------|----|--------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

OFFICE OF THE QUARTERMASTER GENERAL
 MOBILIZATION BUILDINGS
 POST OFFICE
 TYPE - PO-1

SCALE:
 1/4" = 1'-0"
 1/8" = 1'-0"
 1/16" = 1'-0"

700-298

Category: COMMUNICATIONS

Type 2 a: Radio Buildings

Description:

Military communications buildings fall into two categories: those that served basic communications needs on and between installations, such as telephone and telegraph offices, radio buildings, and radio control towers; and those that housed the communications facilities of specialized activities or branches, such as Navy radio stations or Army Signal Corps posts or detachments. Radio buildings constructed to support installation communications needs were generally small, one-story buildings with minimal stylistic references. Installations with specific communications missions had a communications complex of radio tower, transmitting station, housing, and support buildings. In all cases, radio buildings were located at a distance from a main cantonment or urban area so that radio operators received minimal disturbances in sending and receiving messages.

Evolution:

Radio buildings followed the development of radio technology during the early twentieth century. In 1906, the Signal Corps began to experiment with wireless telegraph. During World War I, the Army experimented with radio, and continued to develop the military application of radio after the war. In 1916, the Quartermaster Department issued a plan for a one-story radio station that included a power room, passage, and operator room.¹ During the 1930s, the Quartermaster Corps developed a standardized plan for radio buildings. The one-story, T-shaped building became a typical feature at Army and Army Air Corps installations.

Radio buildings and control towers housed facilities vital to the operation of Army Air Corps installations, where communications were needed between aircraft and ground support. In some cases, these functions were contained in separate buildings. In other cases, control towers were incorporated into hangars or administration buildings.

Association:

Radio buildings are associated directly with the communications theme and illustrate the military's adoption of radio technology. Radio buildings fall into two categories: installation communication services and specialized communications facilities. Installation communication services buildings generally do not possess individual historic significance, but may be contributing buildings to an historic district. If a supporting facility is isolated from the concentration of historic buildings and structures, it may not have *sufficient* visual continuity with the historic district to be a contributing element to the district. However, when visual continuity is not a factor in historic significance, an historic district may contain noncontiguous

¹ David L. Wood, *A History of Tactical Communication Techniques*, Orlando, Martin Marietta Corporation, 1965, 192-200; NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plan 411.

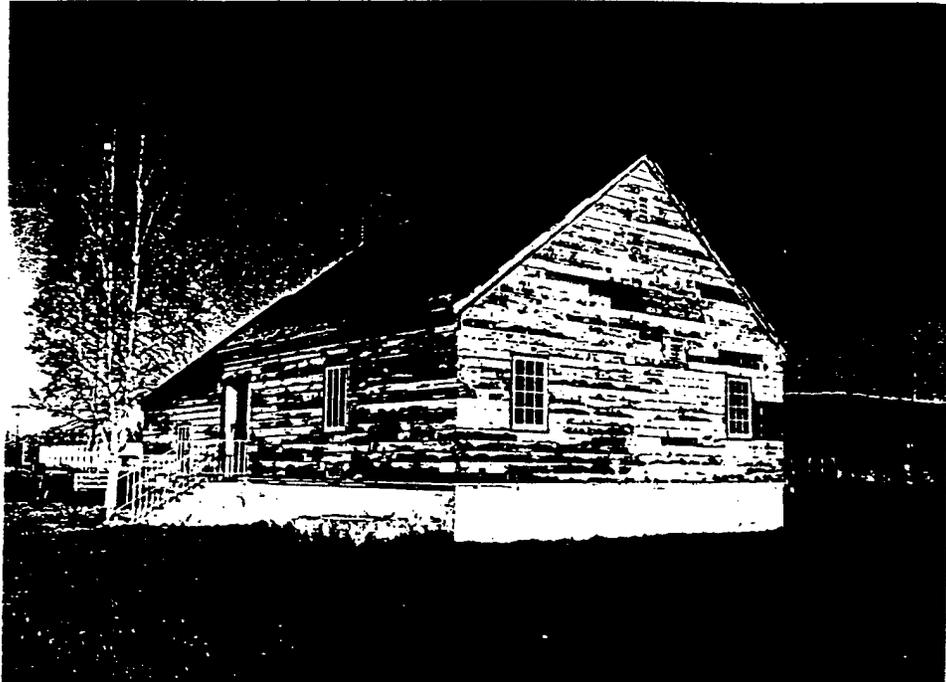
areas. Specialized communications facilities may be eligible for the National Register as individual structures or as historic districts for their historical association with military communications technology, historical events or trends associated with the communications theme, or because they represent an important type, period, or method of construction.

Integrity:

To possess the integrity necessary to convey their significance, radio buildings should retain most of their original design, materials, workmanship, and setting from their period of significance. Structures associated with communications facilities, such as radio transmitter towers, should retain their basic structural design, original configuration, and materials. In cases of subsequent additions or renovations, the building may possess integrity if it retains the majority of its character-defining features, particularly its setting in an overall plan, basic form, materials, and pattern of openings.



Radio Transmitter Building
(Building 830, McChord Air Field, Washington)
Constructed in 1939



Radio Transmitter Building
Ladd Field, Alaska
Constructed in 1939



Radio Transmitter Building
Ladd Field, Alaska
Constructed in 1939

Category: COMMUNICATIONS

Type 2 b: Telegraph and Telephone Buildings

Description:

Military communications buildings fall into two categories: those that served the basic communications needs on installations and between installations and those that housed the communications facilities of specialized activities or branches. In general, telegraph and telephone buildings fall into the first category of support buildings that facilitate communications on the installation level. Telephone and telegraph buildings generally were located near the main cantonment or administrative area. They usually were constructed as part of major building campaigns and reflected the architectural style of the other installation buildings.

Evolution:

Separate buildings to house installation communication facilities did not appear at Army installations in large numbers until the twentieth century. Until that time, the minimal space occupied by communications facilities, such as telegraph, signal, or telephone offices, could be contained in the administration building. During the 1870s and 1880s, the Army connected posts in the western territories with telegraph lines. Forts in regions such as Arizona or the Dakotas were so isolated that contact with commercial telegraphs was not feasible; however, the post commanders recognized the need for fast, reliable communications, and the Army began to construct its own telegraph lines, usually with cavalry or infantry soldiers performing the labor under the supervision of Signal Corps officers or non-commissioned officers. Since only a single line reached an Army post, a room in a pre-existing building was sufficient for the telegraph office. It was, therefore, unnecessary for the Quartermaster Department to issue a separate standardized building plan for telegraph offices.

The military adopted the newly invented telephone at the end of the nineteenth century. By 1892, 59 of 99 garrisons had some type of telephone equipment.² As in the case of telegraph offices, a room in an existing building was sufficient to house the telephone office.

During the twentieth century, the Army's use of communications technology expanded, and the Quartermaster Department began to plan for the proliferation of communications services. In 1905, the Quartermaster Department designated separate rooms for these functions in their standardized plans for administration buildings. In 1906, the Quartermaster Department issued a standardized plan for a combined post office-telegraph office.³ As the telephone gained popularity during the twentieth century, the Quartermaster Department designed a separate building to house the main switchboard. During the 1930s, Army and Army Air Corps

² Maurice Matloff, *American Military History*, Washington, DC, Government Printing Office, 1969, 295.

³ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plans 99-D, 177, 177A. Identification of a standardized plan for 1930 telephone exchange buildings was based on field survey at military installations undertaken during 1992.

installations received separate exchange buildings, constructed according to Quartermaster standardized plans.

Association:

Telephone and telegraph buildings are associated directly with the communications theme and illustrate the military's adoption of different communications technologies. Telegraph and telephone buildings illustrate the development of installation communications services. These types of communications buildings generally do not possess individual historic significance, but can be contributing buildings to an historic district if the supporting facility is located near the concentration of historic buildings and structures and retains integrity.

Integrity:

To possess the integrity necessary to convey their significance, telegraph and telephone buildings should retain most of their original design, materials, workmanship, and setting from their period of significance. The architecture of most telegraph and telephone buildings is consistent with the general architectural character of the other installation buildings constructed at the same time. In cases of subsequent additions or renovations, the building may possess integrity if it retains the majority of its character-defining features, particularly its setting in an overall plan, basic form, materials, and pattern of openings.



1907 Post Telegraph Office at (Fort D.A. Russell) F.E. Warren AFB,
Wyoming

Category: EDUCATION

Type 3 a: Classroom Buildings

Description:

Classroom buildings on military installations fall into two general categories: buildings constructed as schools and existing buildings that either served several purposes, including classrooms, or that were adapted as classrooms. In the first case, the buildings built as educational buildings often are imposing architectural monuments in prominent locations on the installation. Apart from major military schools, classrooms often were combined with other uses, such as barracks or administration buildings. The military did not develop standardized plans for classroom buildings, resulting in great variety among the educational facilities as they proliferated after the turn of the century. Buildings built as classrooms generally were long, two-story buildings, with the primary entrance on the long side of the building. They share a similar typology with academic buildings on college campuses and other educational institutions.

Evolution:

Before the Civil War, classroom instruction was not considered an important part of military service. Beyond the U.S. Military Academy at West Point, New York, the Army provided little formal training. Most military training was gained on the job. For the ordinary soldier, the nature of military service required outdoor training or instruction. Recruits first learned to drill on outdoor parade grounds. For general military training, no specialized education buildings were needed. For example, the Artillery School of Practice, established for artillerists at Ft. Monroe, Virginia in 1824, did not require a separate building during its early years; the first mention of a dedicated school building is on the 1889 map of the installation.¹

The oldest military education institution is the U.S. Military Academy, which was established in 1802 to train officers primarily in engineering. Design and construction of buildings at West Point was under the jurisdiction of the Corps of Engineers with funding supplied directly by the U.S. Congress. Its original buildings were typical Federal and Greek Revival public buildings; none of the original classrooms survive. After 1830, most new construction at West Point was Gothic Revival. The Army's selection of Gothic Revival design for the U.S. Military Academy was part of a popular preference during the mid-nineteenth century for Gothic Revival architecture at college campuses.

After the Civil War, military education evolved into a more formal system. The Army instituted the foundations of a military school system in the spirit of a growing sense of military professionalism. Service schools included: the School of Application for artillerists at Ft. Monroe, Virginia (1824; closed in 1860, re-established in 1868); the School of Application for

¹ Maps of Ft. Monroe from 1830, 1843, and 1869 do not indicate a school building. National Archives and Records Administration, Cartographic Branch, Record Group 77, Fortifications File, Ft. Monroe, Virginia.

Infantry and Cavalry at Ft. Leavenworth, Kansas (1881); the Engineer School of Application at Ft. Totten, New York (1885); and, the Cavalry and Light Artillery School at Ft. Riley, Kansas (1892).

These schools required few separate buildings. Older buildings often served combined headquarters, administration, and training functions. At Ft. Leavenworth, the post headquarters served as classroom space for the School of Application. An 1889 map of Ft. Monroe indicates a building outside of the fortifications labeled "school." This building, smaller than the average officers' quarters duplex, may have housed the Artillery School; it no longer stands.² During this period, the Army also began to provide libraries and classrooms as regular components in Quartermaster-designed administration buildings and barracks as the Army instituted post schools for the instruction of junior officers. Classroom buildings were not differentiated clearly from administration buildings during these formative years of the professional military education system.

During the first decade of the twentieth century, the Army expanded its education and training systems. The Army established large, senior officer schools and expanded its officer education system to instruct junior officers in the requirements of their respective branches or departments. The Army's increased emphasis on professional education was reflected in the design and construction of educational buildings. Classroom buildings, both those adapted from earlier uses and those designed as classrooms, became architectural focal points in prominent locations on installations. An example of adaptation of previously existing building stock is located at Ft. Leavenworth. In 1890, the General Services Schools, the successor to the School of Application, was moved to remodeled ordnance warehouses. In 1904, the buildings were remodeled once more to include the prominent clock tower that is the current symbol of the school.³

Another sign of the increased emphasis on professional education was the selection of prominent civilian architects to design military campuses. After a 1902 national competition, the Army selected the firm of Cram, Goodhue and Ferguson to develop a master plan and design eleven new buildings at the U.S. Military Academy at West Point. Charles McKim, of the preeminent architectural firm of McKim, Mead and White, designed the monumental Army War College (1902-1908), the capstone of the Army's senior education system, at Ft. McNair, in Washington, D.C.

As the Army established more specialized service schools during the beginning of the twentieth century, the Quartermaster Department began constructing separate classroom buildings and libraries, though it did not develop standardized plans for these building types as it did for headquarters buildings, barracks and other installation structures. For example, a complex of

² NARA, Cartographic Branch, RG 92, Blueprint File, Ft. Monroe, Virginia, *A Plan of Fort Monroe, Virginia* 1889.

³ Arthur J. Stanley, "Fort Leavenworth: Dowager Queen of Frontier Posts", *The Kansas Historical Quarterly*, Vol. XIII, No. 1, Spring 1976.

officers' classroom building, enlisted classroom building, and library was constructed at Ft. Monroe in 1909 for the Coastal Artillery School.⁴

In response to the tremendous training needs of World War I, the Army constructed temporary classrooms to train new recruits at mobilization camps. During the 1930s, the Army continued to expand its specialized education system. These new classrooms were designed both by civilian architects and by the Construction Division of the Quartermaster Corps. The firm of McKim, Mead and White designed the Infantry School at Ft. Benning in 1935. The Infantry School is located in a central location in the Ft. Benning master plan and exhibits Colonial Revival architectural influences. Philadelphia architect Harry Sternfeld designed Russel Hall, completed in 1936, for the post headquarters and Signal Corps School at Ft. Monmouth. Russel Hall exhibits the streamlined, stripped classicism popular for public buildings during the 1930s.

The Quartermaster Corps designed classroom buildings as part of their overall installation planning and construction duties. The classroom buildings of this era were larger than their predecessors to accommodate the larger populations and increased amount of training necessary for a modern army. By the 1930s, Quartermaster architects provided designs for educational buildings using both Georgian Colonial Revival and Spanish Colonial Revival Architectural styles. These plans were consistent with the architecture of the new permanent installations constructed by the Quartermaster Corps during that time period. Even with the increase of classroom construction, the Army did not develop standardized plans for educational buildings.

Army Air Corps

With the advent of military aviation, the military developed an entirely new education program to train pilots and ground crews. Early training programs relied on hands-on flight and mechanical training. During World War I, temporary airfields were established across the country to train pilots and ground crews. The only permanent training facilities were a flight school at Rockwell Field, North Island, San Diego, California, and an aerial photography school at Langley Field, Virginia.

Permanent training facilities for the Army Air Corps were constructed after the passage of the Air Corps Act of 1926. Among other provisions, the law authorized additional men and aircraft, and directed the Chief of the Air Corps to develop a five-year plan for implementing the legislation. Although the law did not mention new installations, the expansion of Army aviation implied new facilities. In 1931, the Air Corps Training School and Aviation Medicine School was moved from temporary facilities at Brooks Field to newly-constructed Randolph Field, in San Antonio, Texas. The entire training complex at Randolph Field was designed using the Spanish Colonial Revival architectural style. The educational buildings were part of a complete instructional facility, unified in both purpose and architectural style.

⁴ John Paul Graham, Mary Beth Gatza, and E. Kipling Wright, *The Architectural Heritage of Fort Monroe: Inventory and Documentation of Historic Structures Undertaken by the Historic American Buildings Survey*, vol. 1, Washington, D.C., Historic American Buildings Survey, National Park Service, Department of the Interior, 1987, 29. *Building Location List* (MSS, Directorate of Engineering and Housing, Ft. Monroe, Virginia, N.D..)

The Army Air Corps established specialized training facilities at other air fields, including the 1931 Air Corps Tactical School at Maxwell Field, Alabama. Balloon and dirigible training was located at Scott Field, Illinois. In general, classroom buildings constructed for the Army Air Corps training centers continued the Army's tradition of multi-purpose buildings. Classrooms often shared the same building as barracks or administration offices. Because most Army Air Corps installations were constructed during the late 1920s and 1930s, these installations were built according to master plans that integrated the classroom buildings into cohesive architectural designs.

Association:

Classroom buildings may be associated with several important historic contexts: the development of military education and training and the rise of military professionalism; the history and development of individual installations; architectural design; and, installation planning. Buildings associated with the military's educational system may have been built to serve multiple uses, or have been adapted from existing buildings. Thus, when evaluating an installation's role in education and the remaining properties that represent that role, buildings other than those built specifically as classrooms must be examined.

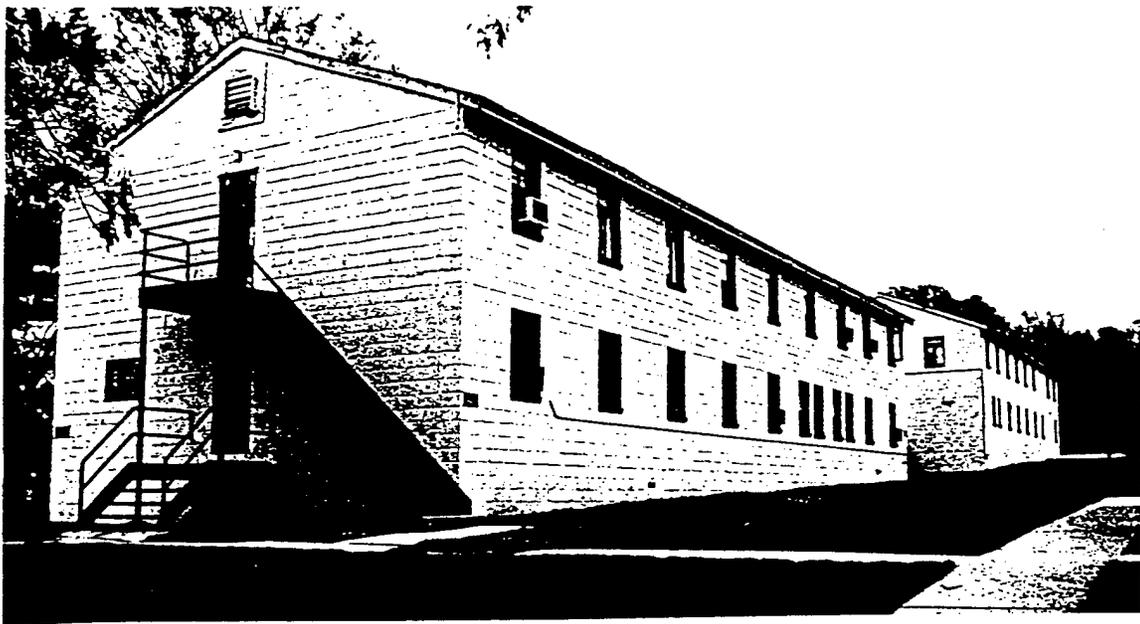
The contexts of architectural design and installation planning are relevant to buildings and installations built specifically as educational facilities. Military properties related to education often were designed by prominent architects or received high levels of design from military architects and engineers. An individual school building may be the work of a master or may embody the distinctive characteristics of its period of construction. Installations designed as schools and constructed as part of a single effort under a master plan can be significant examples of community planning and should be evaluated as entire complexes. Additional research in nonmilitary sources may be necessary to develop fully the appropriate historic context for assessing a property associated with an important architect or important developments in community planning.

Integrity:

To possess the integrity necessary to convey their significance, educational and classroom buildings should retain most of their original design, materials, workmanship, and setting from their periods of construction. Character-defining features of the majority of extant military classroom buildings include the ornamentation and materials defining the particular architectural style of the building, regular pattern of exterior windows and doors, and multi-story height. Educational buildings on military installations often are prominent buildings in key locations in the installation plan.

On installations built as unified "campuses" with an educational mission, classroom buildings share design features in common with the other installation buildings. These features also should remain intact for the building to convey its period of significance. In addition, the relationship among buildings in a campus installation plan should remain relatively intact.

Typical alterations to this building type include replacing or covering original windows and doors. In cases of subsequent additions or modifications, the building may retain integrity if it retains the majority of its character-defining features, particularly its setting in an overall plan, basic form, materials, and pattern of openings.



Education Center, Bolling AFB, D.C. Source: Bolling AFB

Category: EDUCATION

Type 3 b: Drill and Riding Halls

Description:

Drill and riding halls were constructed to provide indoor facilities for training activities. These buildings are large rectangular structures enclosing a great expanse of open interior space. Drill halls are not a typical property type found on all installations; they usually are limited to Army cavalry posts, or in at least one instance, Navy training stations. Cavalry riding halls were located near stable complexes, while drill halls were located near barracks.

Evolution:

The cavalry riding hall was introduced on Army posts when the Army consolidated cavalry units on larger installations and expanded facilities for the maintenance, care, and training of horses. The Quartermaster Department issued plans for riding halls during the 1880s. The earliest drill halls were rectangular buildings with large double doors at each gable end. The buildings were lit by windows along the sides and in the gable ends. Often the long gable roof was punctuated by dormers. During the first decade of the twentieth century, the Quartermaster Department revised its drill hall plan to include cross gables, a clerestory, and shaped gable.⁵ At posts with two riding halls, each served a different function. For example, a 1916 map of Ft. Riley indicates that the smaller 1889 riding hall was used as the post riding hall, while the 1908 riding hall was designated as the school riding hall.⁶ Other cavalry posts that did not have riding halls often were located in areas with weather suitable for year-round outdoor training, such as Ft. Bliss, Texas and Ft. Huachuca, Arizona.

The Army continued to construct cavalry drill halls through the 1930s; however, the purpose of the building was changing. The riding halls constructed during the inter-war years reflect local interest in recreational horse-related activities, such as polo, rather than cavalry drill.

No extant examples of infantry drill halls were identified during this study. The infantry generally trained on outdoor parade grounds. An enclosed infantry drill hall was constructed at Plattsburgh Barracks, New York, in 1895, but burned in 1917. After 1900, the Quartermaster Department issued one standardized plan for a combined drill hall and gymnasium; however, the infantry drill hall was not a prevalent building type on Army installations.⁷

Association:

⁵ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, P.I. NM-1 9, Entry 41 1, Plans 97, 97-A.

⁶ NARA, Cartographic Branch, RG 92, Post and Reservation File, Ft. Riley, Kansas, "Post Map of Ft. Riley, Kansas", Revised to September 1916.

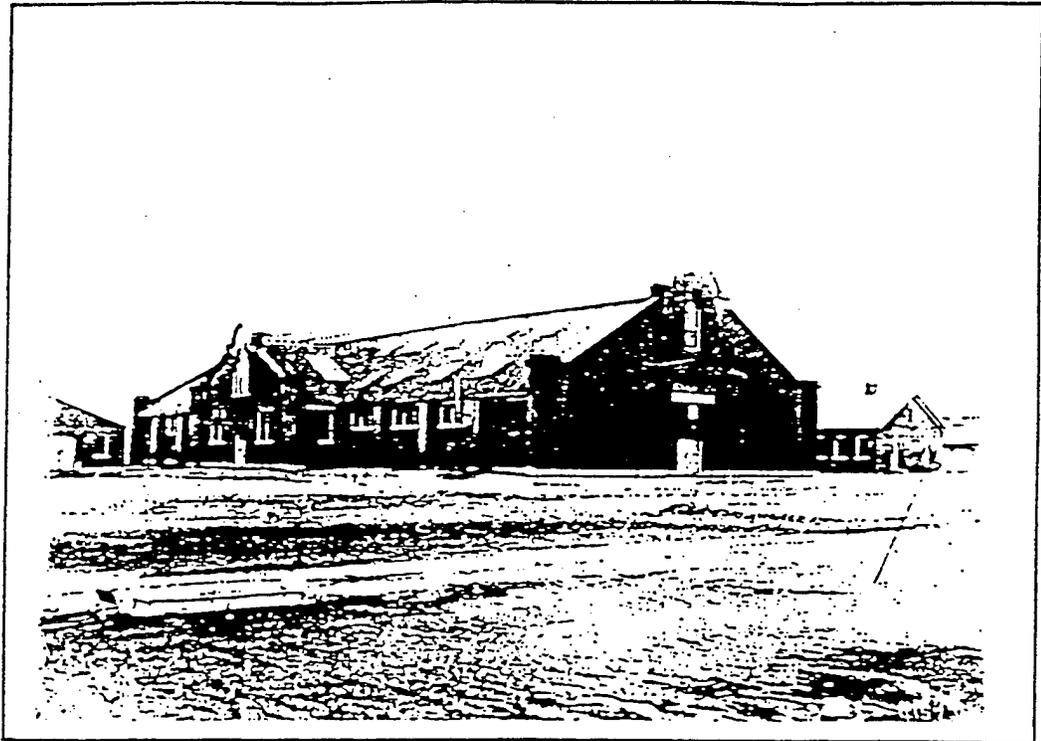
⁷ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, Plans 96, 225.

Drill and riding halls are related to the development of military training and to an installation's mission. Nineteenth- and early twentieth-century riding halls are associated with cavalry training, while mid twentieth-century riding halls are associated with recreational uses. Drill halls are associated with the training of soldiers and sailors, often new recruits.

Drill and riding halls may possess the significance necessary to meet the criteria for listing as a building in the National Register of Historic Places for their association with military education and training and as representatives of a distinctive type. They also should be evaluated as possible contributing elements in a potential historic district related to the installation's educational mission, historical development, or design as a significant and distinguishable entity.

Integrity:

To possess the integrity necessary to convey their significance, drill halls should retain most of their original design, materials, workmanship, and setting from their period of construction. Character-defining features of drill halls include their exterior form, ornamentation evoking a particular architectural style, and pattern of exterior windows and doors. If the building is evaluated as a single building, it also should retain its interior integrity, which is defined by clear, open space. If a drill or riding hall is evaluated as part of an historic district, it should retain the design features that define the architectural character of the installation. Typical alterations to this building type include the replacement of original windows and doors. In cases of subsequent additions or renovations, the building still may possess integrity if it retains the majority of its character-defining features, particularly its setting, exterior form, materials, and pattern of openings.



Riding Ring, F.E. Warren AFB. Source: FE.Warren AFB

Category: HEALTH CARE

Type 4 a: Dispensary/Infirmary

Description:

The dispensary or infirmary was a small medical facility constructed near the central area of an installation to provide primary short-term care for military personnel. Dispensaries and infirmaries supplemented the post hospital. The dispensaries and infirmaries were generally small, rectangular, one- or two-story buildings constructed of permanent materials.

Evolution:

At Army installations, small post hospitals originally provided both long-term and short-term medical care. Hospital plans included a room designated as the dispensary. Hospitals often were located a short distance away from the parade ground to prevent the spread of contagious diseases and to isolate the unpleasant odors accompanying nineteenth-century medicine at isolated posts. As the Army began to consolidate its troops in larger installations during the 1880s and 1890s, hospital complexes increased in size and were located even farther away from the main cantonments. The dispensary apparently evolved as a separate building type located closer the barracks to provide immediate and primary medical care to the larger garrisons of troops at the consolidated installations. The level of care available at dispensaries was similar to the basic care provided in the earlier frontier hospitals.

The earliest dispensary identified in this study was located in Ft. Riley, Kansas (Building 28), constructed in 1889. The Quartermaster Department issued its first standardized plans for dispensaries in 1908 and again in 1910 and 1911.¹ The Office of the Quartermaster constructed dispensary buildings only at larger installations. Examples of inter-war era dispensaries were identified at Ft. Leavenworth, Kansas (1927) and at Ft. Benning, Georgia (1931).

Association:

Dispensaries and infirmaries are associated with the growth of medical services as military installations grew larger and the military provided more services to its personnel and their dependents. Dispensaries and infirmaries are minor building types constructed to provide primary medical care and to supplement larger military hospitals. These buildings are not likely to possess individual significance, but may be contributing buildings to an historic district if they retain sufficient integrity from the period of significance of the historic district.

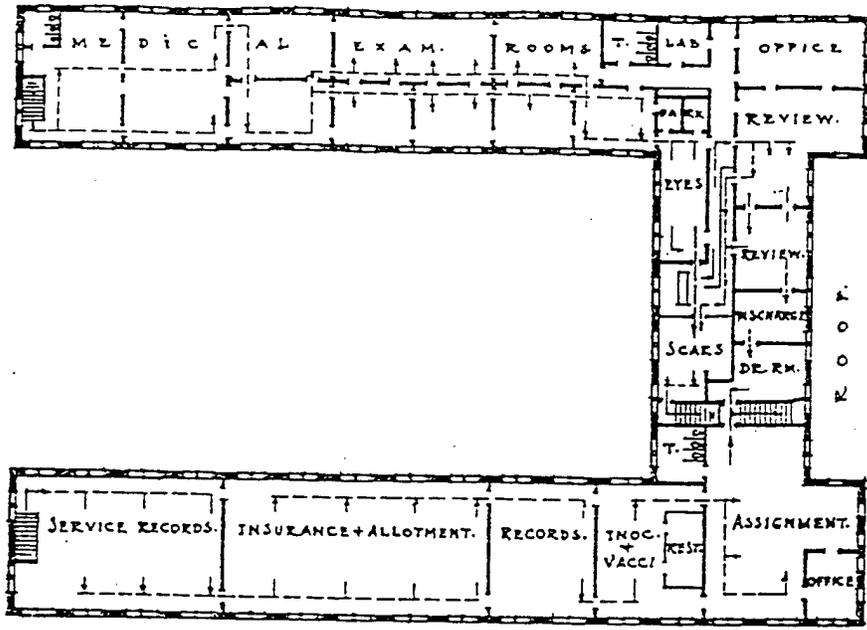
Integrity:

¹ National Archives and Records Administration, Cartographic Branch, Record Group 77, Standard Plans of Army Post Buildings, 1891-1918, (P.I. NM - 19 Entry 41 1), Plans 247, 279.

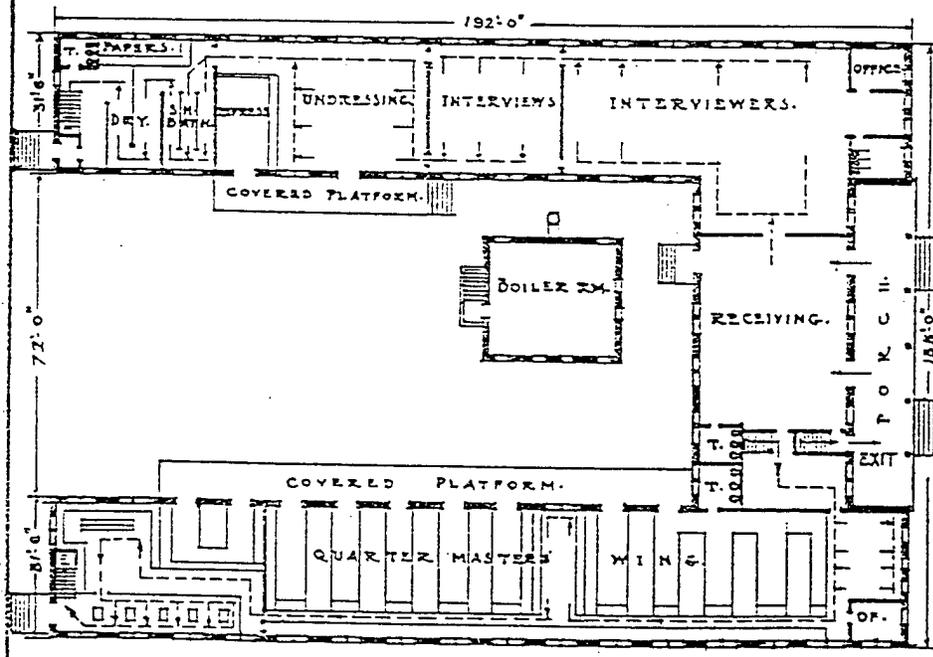
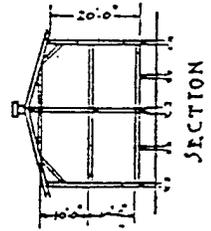
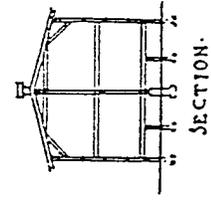
No character-defining features specific to infirmaries and dispensaries were identified during this study. Therefore, the standards for assessing the integrity of examples of this building type are the same standards as for evaluating the integrity of any building. To possess architectural integrity, dispensaries and infirmaries should retain most of their original materials, design, and setting. Few pre-1940 dispensaries and infirmaries remain in use as medical facilities; most have been adapted for other uses. In cases of additions or renovations, the building still may possess integrity if it retains the majority of the features that constituted its basic design, including materials, building form, roof shape, porches, pattern of windows and doors, and ornament.



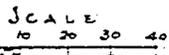
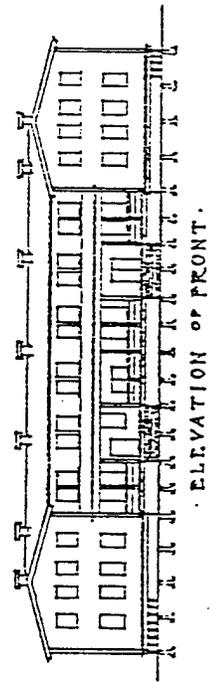
1933 Base Dispensary at Bolling AFB, Washington DC



SECOND FLOOR PLAN.



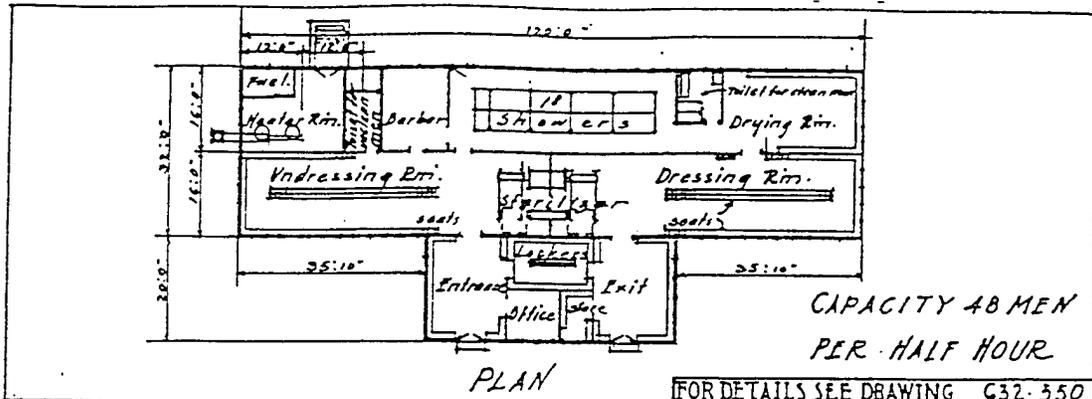
FIRST FLOOR PLAN.



SB-19

FOR DETAILS SEE DRAWINGS - No. 620-488-489.

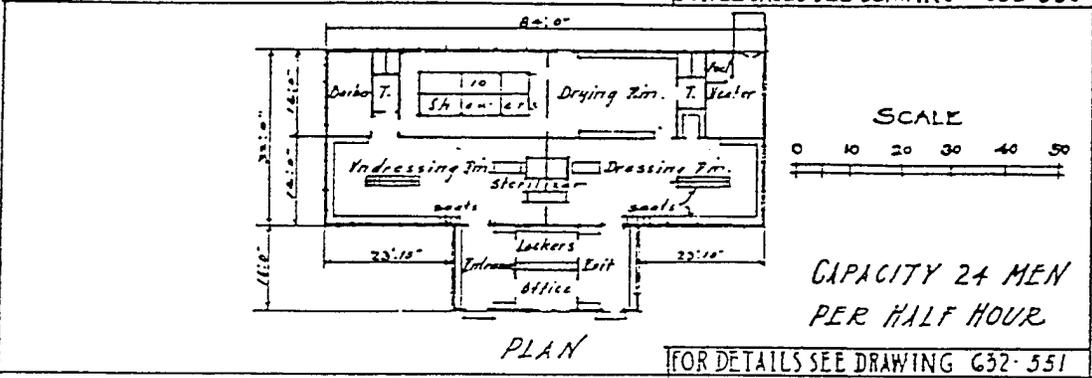
CONSTRUCTION DIVISION OF THE ARMY.
 TYPICAL BUILDINGS.
 .RECRUIT EXAMINATION BUILDING.



CAPACITY 48 MEN
PER HALF HOUR

PLAN

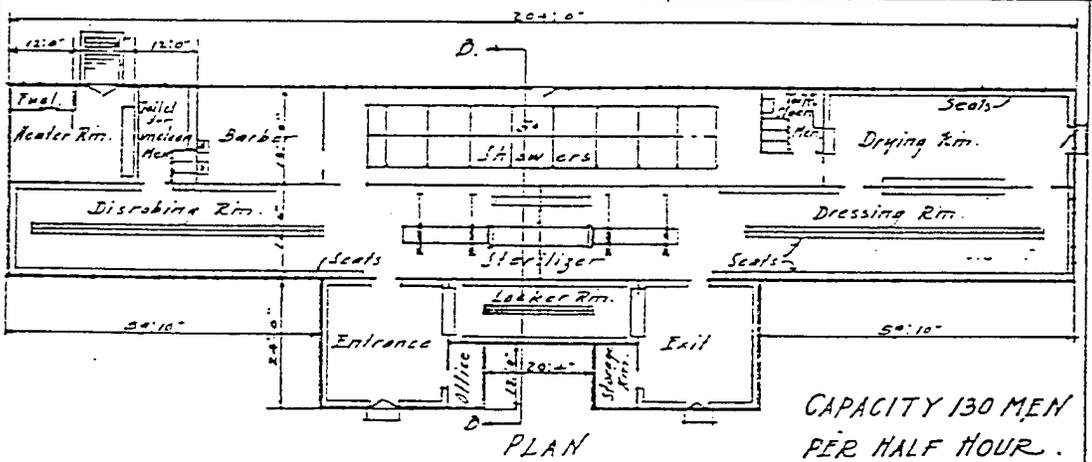
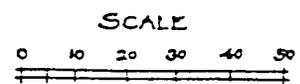
FOR DETAILS SEE DRAWING G32-350



CAPACITY 24 MEN
PER HALF HOUR

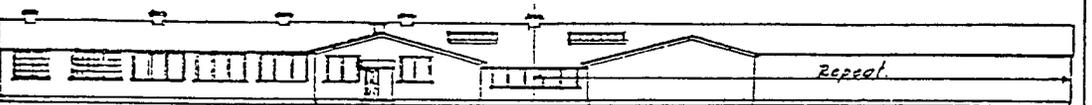
PLAN

FOR DETAILS SEE DRAWING G32-351

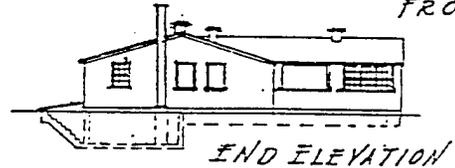


CAPACITY 130 MEN
PER HALF HOUR.

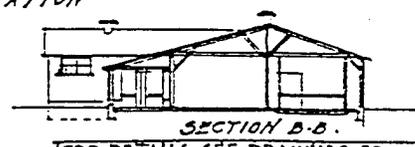
PLAN



FRONT ELEVATION



END ELEVATION

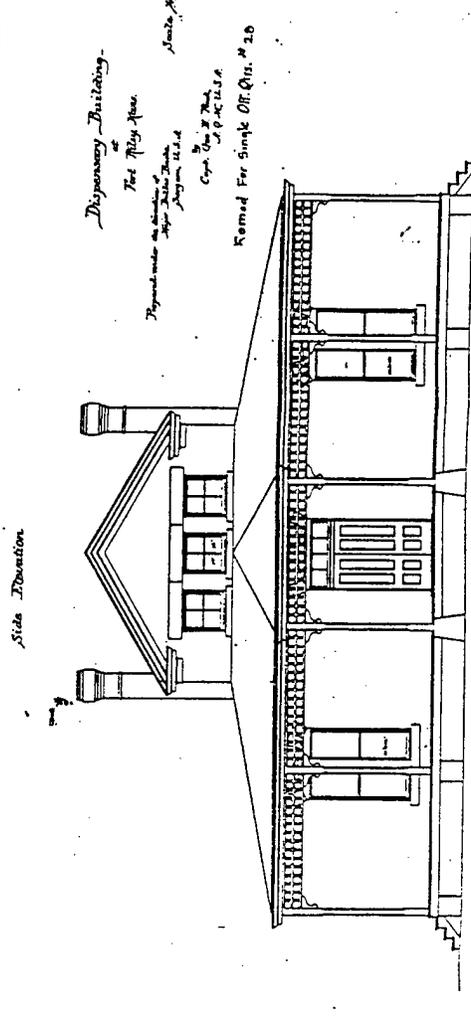
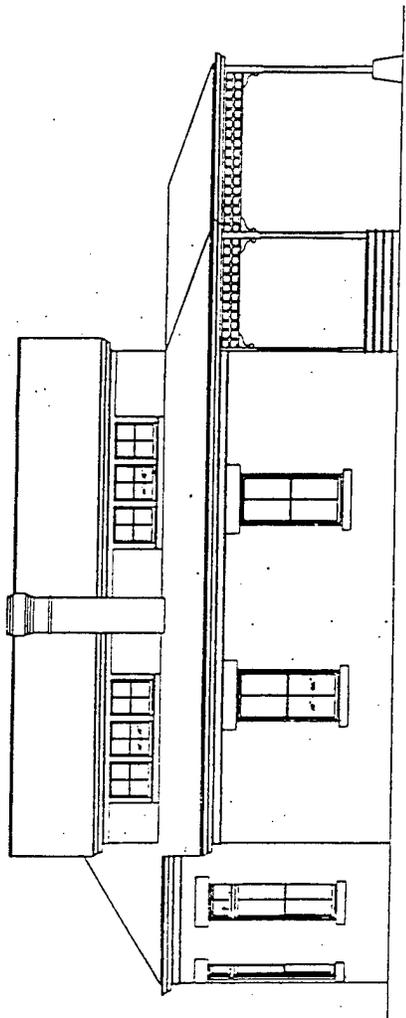
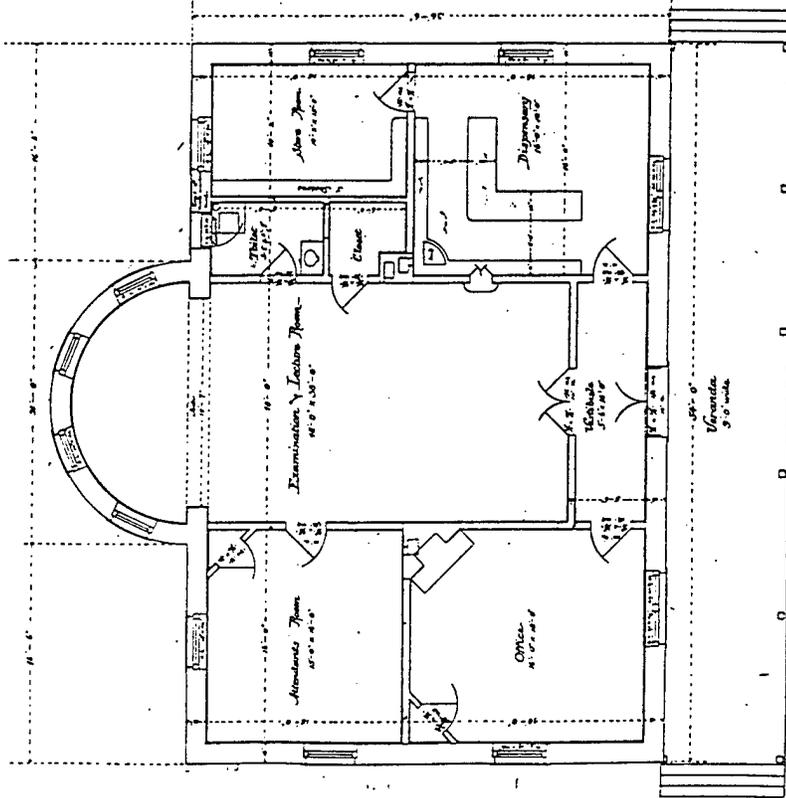


SECTION B-B.

FOR DETAILS SEE DRAWING G32-350.

CONSTRUCTION DIVISION OF THE ARMY
TYPES OF DELOUSING PLANTS
VARYING CAPACITIES

SB-21



Dispensary Building
 Fort Riley, Kans.
 Prepared under the National Health Program, U.S.A.
 by
 Capt. Geo. F. Thoms, U.S.A.
 Remodel For Single DR. Q. 111, # 20

U.S. GOVERNMENT PRINTING OFFICE
 1934 O-284, 0 File 1934-11
 8-4-11
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Category: HEALTH CARE

Type 4 b: Hospitals

Description:

Military hospitals are buildings or building complexes constructed for the medical care of military personnel, civilian employees, and dependents. The size of the hospital facility is related directly to the size of the installation or to the geographical area it served. Installation hospitals generally were set apart from the other buildings within the installation plan. Hospitals that served larger regions were located on separate installations devoted exclusively to a medical mission. The architecture of hospitals reflected contemporary medical philosophies of medical care and often included high-style architectural ornamentation typical of the period of construction. Nineteenth-century military hospitals generally had a central block with ward wings and verandas around the building. Early twentieth-century military hospitals followed the same design, but with Colonial Revival or Classical stylistic references. By the 1930s, hospital plans no longer included open verandas. By 1940, the multi-story tower design was adopted as the preferred design for Army general hospitals.

Evolution:

Army hospitals fall into two categories: post hospitals and general hospitals. Post hospitals served the personnel at specific installations, while general hospitals served a larger population of troops, regardless of unit. Post hospitals were constructed at most Army forts throughout the nineteenth and twentieth centuries. As the Army grew in size and as medical science improved, the Army constructed general hospitals to better care for the increased number of soldiers, particularly during and immediately after wartime.

Post hospitals evolved from the early system of Army medical care. In 1818, the Army established the office of Surgeon General to oversee the medical treatment of soldiers. Though doctors were assigned to regiments or posts, the condition of medical facilities remained poor. Before the Civil War, post hospitals often were housed in a single room of an existing post buildings or in the damp, stone casements of coastal fortifications. Separate hospital buildings, when built, resembled the quarters or barracks buildings.

By the eve of the Civil War, the Army Quartermaster Department began developing standardized building plans for many building types, including hospitals. Army construction regulations published in 1861, though never officially adopted, influenced Army construction. The unofficial regulations depicted a recommended hospital plan that resembled an registered men's barrack with a rear ward wing. This hospital plan could be expanded by the construction of additional ward wings. The Army hospital contained most functions, including dispensary, kitchen, mess room, and hospital steward quarters, within a single building. Support buildings for the hospital complex often included smaller buildings such as a sink (latrine) and a dead

house (morgue). The unofficial regulations included a typical post plan, with the hospital located apart from the cantonment.²

During the Civil War, the medical treatment and care of Army personnel improved. After the war, the Army continued to try to improve the general medical care received by troops. In 1867, the Surgeon General issued a circular describing the ideal post hospital: a central two-story block, containing administration offices, flanked by two, one-story ward wings that accommodated 24 beds, with a rear kitchen wing and surrounding veranda. Garrison size determined the size of the post hospital. Most troops were scattered in small installations ranging in size between two and ten companies of men. For smaller Army installations, the plan could be modified to include only one ward wing. The plan also could be expanded to accommodate 48 beds by extending the ward wings.³

In 1870, the Surgeon General published a report on barracks and hospitals in which he praised the 1867 plan as the embodiment of the true principle of hospital construction and a great step forward. Yet, he rated the actual state of Army barracks and hospitals as deplorable. In many cases, older hospitals were still in use. Where new hospitals had been constructed, the Quartermaster Department had ignored the 1867 hospital plan. To control hospital construction, the Secretary of War issued regulations in 1870 that directed the Quartermaster Department to construct post hospitals using specified appropriations, not general construction funds.⁴

Regulations for Army post hospital design were issued regularly throughout the late nineteenth and early twentieth centuries (1871, 1877, 1888, and 1906). In general, these plans remained remarkably similar to the 1867 plans. For example, in 1871, the Surgeon General issued plans for permanent and temporary hospitals. The standard post hospital design consisted of a two-story central block flanked by two one-story wings and accommodated 24 beds. The regulations also included two plans for a two-story, 12-bed hospital and a plan for a provisional hospital for temporary posts. A character-defining feature of these hospitals is the wide surrounding veranda. The Army hospitals of this era also incorporated Victorian design elements, such as bay windows and wood spindlework. Examples of these hospital plans can be found at many Army posts active during the late nineteenth century.⁵

In one instance, the Army built a large hospital to care for veterans. In 1875, the Barnes Hospital at the Soldiers' Home near Washington, D.C. contained 50 beds and had a three-story central block flanked by two-story ward wings. The building was an elaborate, French Second Empire style building with a tall mansard roof, bracketed cornices, and hooded, arched windows.

² War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*, Washington, D.C.: George W. Bowman, 1861, 3-4.

³ U.S. Surgeon General's Office, *Plan for a Post Hospital of 24 Beds* (Circular No. 4), Washington, D.C.: Government Printing Office, 1867, passim.

⁴ War Department, Surgeon General's Office, *A Report on Barracks and Hospitals with Descriptions of Military Posts* (Circular No. 4), Washington, D.C.: Government Printing Office, 1870, 21; Erna Risch, *Quartermaster Support for the Army. A History of the Corps 1775-1939*. Washington, D.C.: Government Printing Office, 1962, 486.

⁵ U.S. Surgeon General's Office, *Approved Plans and Specifications for Post Hospitals* (Circular No. 2), Washington, D.C.: Government Printing Office, 1871, passim.

Though the Barnes Hospital was much larger than the post hospitals of the time, it followed the basic plan of post hospitals.

During the 1880s and 1890s, the Army began to consolidate troops into larger, permanent posts. The size of post hospitals increased to serve the larger garrisons. During the same era, concerns about poor living conditions for Army personnel led to improvements in Medical Corps housing. Before 1888, medical personnel lived in rooms located in the hospital. In 1888, the Army authorized separate housing for the hospital steward, and the Quartermaster Department subsequently issued standardized plans. After this time, the Army provided separate housing and barracks for medical personnel. Many nineteenth- and early twentieth-century post hospitals have detached hospital stewards quarters next to the hospital.

Post hospitals during the early twentieth century retained the basic arrangement of the late nineteenth-century hospital plan, the two-story central administration block, flanked by two ward wings with porches along the wings, but were enlarged. The increase in size was accommodated through raising the height of the ward wings from one to two stories and constructing additional rear wings. The architectural character of the hospitals reflected Colonial Revival or Classical Revival design. One significant change in hospital interior layout was that doctors could concentrate more patients in a single ward as they learned more about the causes of the spread of diseases and the importance of disinfectants. As the size of post hospitals increased, the number of medical personnel increased, and more buildings were needed to maintain the hospital complex. Post hospitals often grew into multi-building complexes, with a main hospital accompanied by an isolation hospital, kitchen, morgue, laundry, power plants, and hospital stewards quarters.

By 1917, the Army had 131 post hospitals and five base hospitals. Base hospitals were expanded versions of post hospitals that provided more surgical and medical services and often comprised building complexes. Base hospitals, such as those at Ft. Sam Houston and Ft. Bliss, contained 200 beds each; with the addition of pavilion wards, these hospitals could be increased to a capacity of 700 and 900 beds respectively.⁶

During the nationwide Army construction program initiated in 1926, the Army built many new, permanent posts and airfields. Hospitals were constructed at all new installations. The standard design still retained the characteristic central block with flanking wings, though the height was increased to three stories. The long, open verandas characteristic of nineteenth- and early twentieth-century hospitals disappeared from the basic plan and sometimes were replaced with smaller sun porches. Medical Corps and Nurses Corps barracks often were constructed next to the hospital.

The second type of Army hospital was the general hospital. General hospitals were established to treat general and specialized medical problems and all injuries. The staff at post hospitals sent personnel suffering from obscure or serious illnesses to general hospitals. The system of general

⁶ Merritte W. Ireland, *The Medical Department of the United States Army in the World War*, Vol. V, Washington, D.C.: Government Printing Office, 1923, 25.

hospitals evolved slowly from a series of temporary wartime hospitals to a system of permanent general hospitals.

During the Second Seminole War, the Medical Department established general hospitals near the most important supply depots. General hospitals also followed the armies during the Mexican War. These general hospitals occasionally were housed in a building, but more were placed in tents.⁷

The overwhelming medical needs of the Civil War resulted in the construction of buildings that were designed specifically as Army general hospitals to care for all soldiers regardless of unit. The Army utilized a "pavilion" type of hospital, which consisted of wards that were physically separated from one another and connected by corridors or covered walkways. Because doctors mistakenly believed that diseases were transmitted through "vapors," they believed the pavilion design would prevent the spread of disease. Though their understanding of epidemiology was wrong, the physical separation of patients in these hospitals produced a low death rate for the time. By the close of the war, the Army had 204 general hospitals, with a total of 136,894 beds. The first pavilion-type hospital was built at Parkersburg, West Virginia, followed by hospitals at Louisville, Memphis, Chattanooga, and Jeffersonville, Indiana.⁸

In 1887, the military created the first peacetime general hospital at Hot Springs, Arkansas. However, most soldiers still were treated at post hospitals until the Spanish-American War and the Philippine Insurrection. The Army established general hospitals to treat the troops returning from those conflicts. During the Spanish-American War, the Army had built a temporary general hospital at Washington Barracks. In 1908, the Army relocated the temporary facility to the northern part of the District of Columbia to form a permanent peacetime general hospital, which later was renamed the Walter Reed Army Medical Center. Sick and wounded soldiers returning from the Philippines were treated at Letterman General Hospital at the Presidio of San Francisco. At Ft. Bayard, New Mexico, the Surgeon General established a specialized general hospital to care for the increased number of tuberculosis cases. General hospitals continued to follow the pavilion plan of a main hospital surrounded by a series of detached individual wards. By 1917, the Army had four general hospitals.

The demands of World War I again caused the Army to expand its general hospital system. Post hospitals were expanded to serve as regional general hospitals. For example, Ft. Benjamin Harrison, Indiana, was designated General Hospital No. 25 in 1918. The wartime general hospital at Ft. Benjamin Harrison was housed in existing buildings and in temporary, wood-frame mobilization buildings, and was returned to post hospital status in 1919. The Army also established new general hospitals. By 1918, the number of tuberculosis patients overwhelmed the hospital at Ft. Bayard, which was transferred to a site near Denver, Colorado, and named General Hospital No. 21. It later became Fitzsimons General Hospital. The early plan of Fitzsimons clearly illustrates the dispersed wards typical of the pavilion-plan general hospitals.

⁷ Mary C. Gillett, *Army Medical Department 1818-1865*, Washington, D.C.: Government Printing Office, 1981, 63-65, 101-102.

⁸ George W. Adams, *Doctors in Blue: The Medical History of the Union Army in the Civil War*, New York: Henry Schuman, 1952, 149-173; Percy Ashburn, *A History of the Medical Department of the United States Army*, Boston: Houghton Mifflin Company, 1929, 88.

By 1929, the general hospital system had expanded to eight Army general hospitals with the addition of Fort Sam Houston, Texas; Beaumont, El Paso, Texas; Sternberg Hospital, Manila, Philippines; and, Tripler Hospital, Honolulu, Hawaii.

During the 1930s, the design of hospitals changed dramatically. Consolidated buildings with massive multi-storied towers replaced the dispersed pavilion plan. This significant change reflected the better understanding of epidemiology. The pavilion plan had developed in answer to concerns that stale air or "vapors" caused disease; now that doctors understood the bacterial causes of disease transmission and the importance of antiseptics, the dispersed pavilion plan was obsolete. The consolidated, tower hospital plan minimized the distances between wards, resulting in savings of staff time and infrastructure, i.e. lighting and heating ducts. The new hospital plan type was developed in the United States; the first example was the Columbia Presbyterian Medical Center, New York, started in 1928.⁹ The military quickly adopted this civilian precedent. In 1936, the Surgeon General ordered military planners to develop plans for a new hospital building, with all wards concentrated in a single building, at Fitzsimons. In 1938, congress approved funds for construction of the new 610-bed hospital, which at the time was the largest single hospital structure ever built by the Army; the building was finished in 1941. The building displays the stripped, Art Moderne style popular for large public buildings of the 1930s. The construction of a new general hospital at Ft. Sam Houston, Texas, also was started during the late 1930s and also followed the consolidated, multi-story plan with Art Moderne exterior design.

Association:

Hospitals are associated intimately with the historical context of military medicine. They represent the medical treatment philosophies of the nineteenth and twentieth centuries, the military's concern for adequate health care for its personnel, and, in some cases, medical research. Hospitals also may be associated with important architects or be good examples of a type of construction or possess high artistic values.

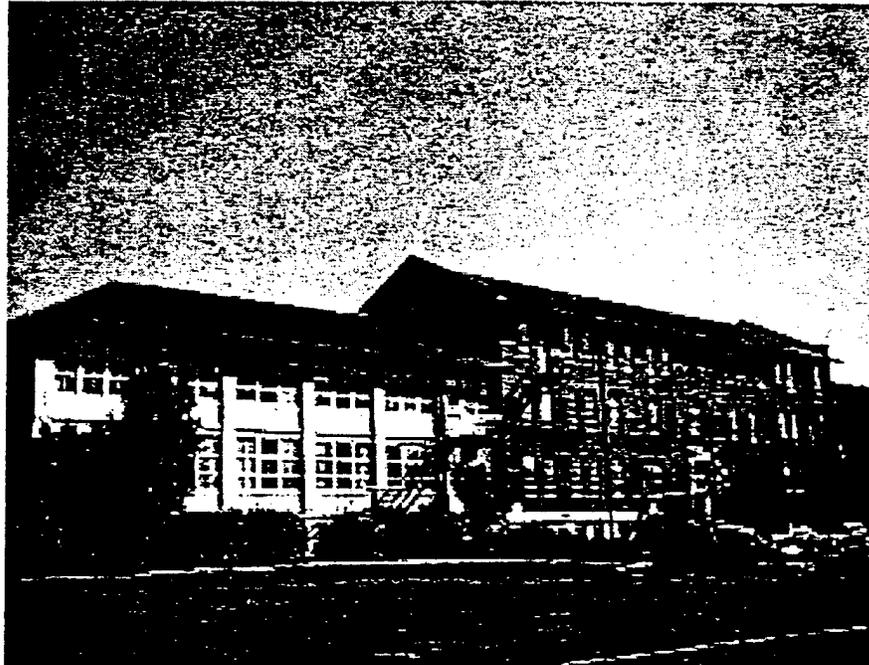
Hospital buildings are major building types. A hospital may possess individual significance because of historical associations or architectural merit, and may be a major contributing building to an historic district. Army post hospitals often were a major element of the installation plan.

Integrity:

To possess integrity, hospitals should retain most of their design, setting, materials, from their period of significance. However, hospital buildings often are among the most modified of military building types. Hospitals were subject to modifications, additions, and renovations to keep them up to date with medical technology and the growing number of patients. The additions themselves may have attained significance if they illustrate the evolution of medical care and hospital design, or represent a type or method of construction.

⁹ Nikolaus Pevsner, *A History of Building Types*, Princeton: Princeton University Press, 1976, 158.

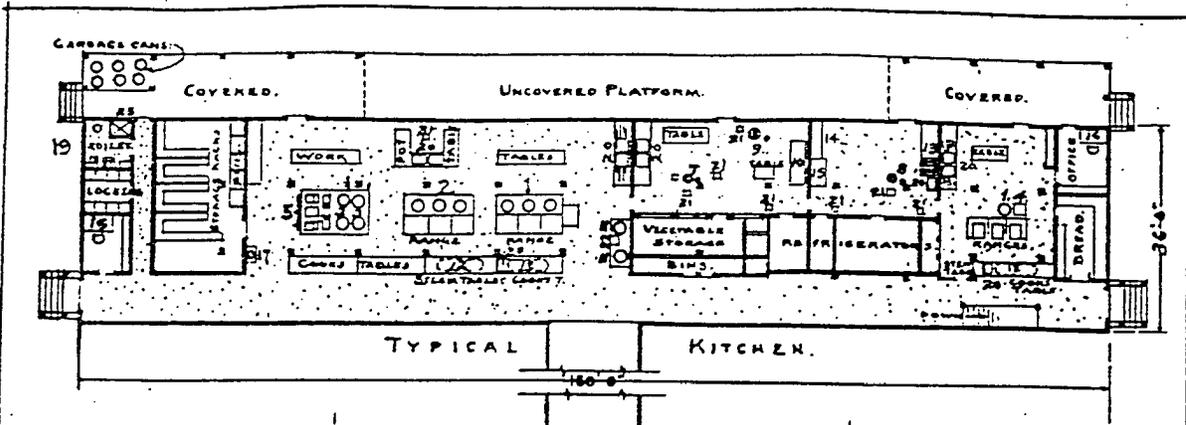
Many military hospitals constructed before 1940 no longer function as hospitals. Army post hospitals often have been adapted for use as headquarters buildings, e.g. Forts Myer, Riley, Leavenworth, and Benjamin Harrison. In some cases, character-defining features, including entries, window openings, and porches have been modified. Even in cases of modern additions and renovations, the building still may possess integrity if it retains the majority of its character-defining features. To determine what the character-defining features are, the type of hospital plan represented and the building's original appearance must be identified. Important elements to evaluate when assessing integrity are building plan and exterior shape, materials, roof shape, verandas, pattern of openings, architectural features such as columns, brackets, trim that represent the period of construction, and setting.



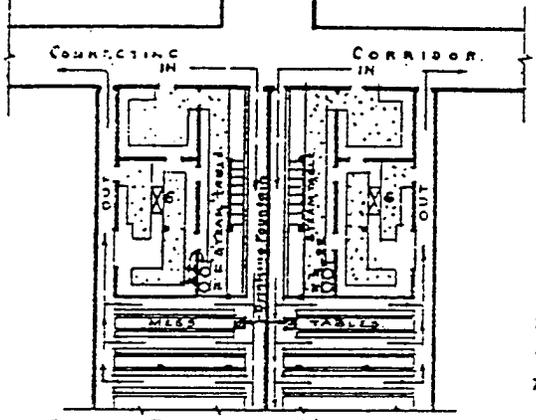
1929 Post Hospital at Fort Lewis, WA



1903-04 Post Hospital at Vancouver Barracks, WA

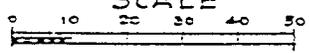


- NOTES.
- 1 STOCK KETTLES.
 - 2 ROASTING KETTLES.
 - 3 MEAT ROASTERS.
 - 4 VEGETABLE BOILER.
 - 5 VEGETABLE COOKER.
 - 6 DISH WASHING MACHINE.
 - 7 VEGETABLE PEELER.
 - 8 MEAT CHOPPER.
 - 9 ICE CREAM FREEZER.
 - 10 ICE CREAM BOX.
 - 11 URN.
 - 12 SAUCEPAN RACK.

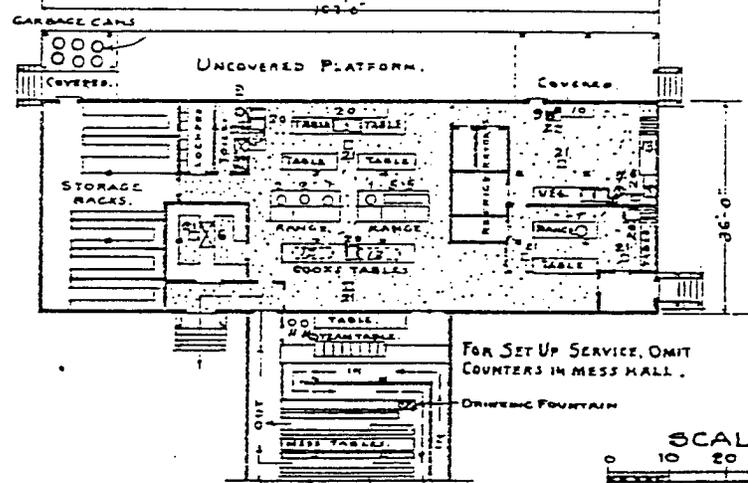


- NOTES.
- 13 BUTCHER BENCH & BLOCK.
 - 14 FISH TABLE.
 - 15 FISH BOX.
 - 16 DESK.
 - 17 LAVATORY.
 - 18 URINAL.
 - 19 TOILET.
 - 20 SINKS.
 - 21 FLOOR DRAIN.
 - 22 SUNK FLOOR DRAIN.
 - 23 SHOWER.

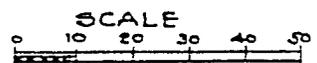
SERVING ROOMS AND MESS ROOMS.
 TYPICAL LAYOUT.
 FOR
 HOSPITAL MESS AND KITCHEN, 3000 TO 5000 CAPACITY.
 SCALE



FOR DETAIL PLAN, SEE DRAWING 6402-938



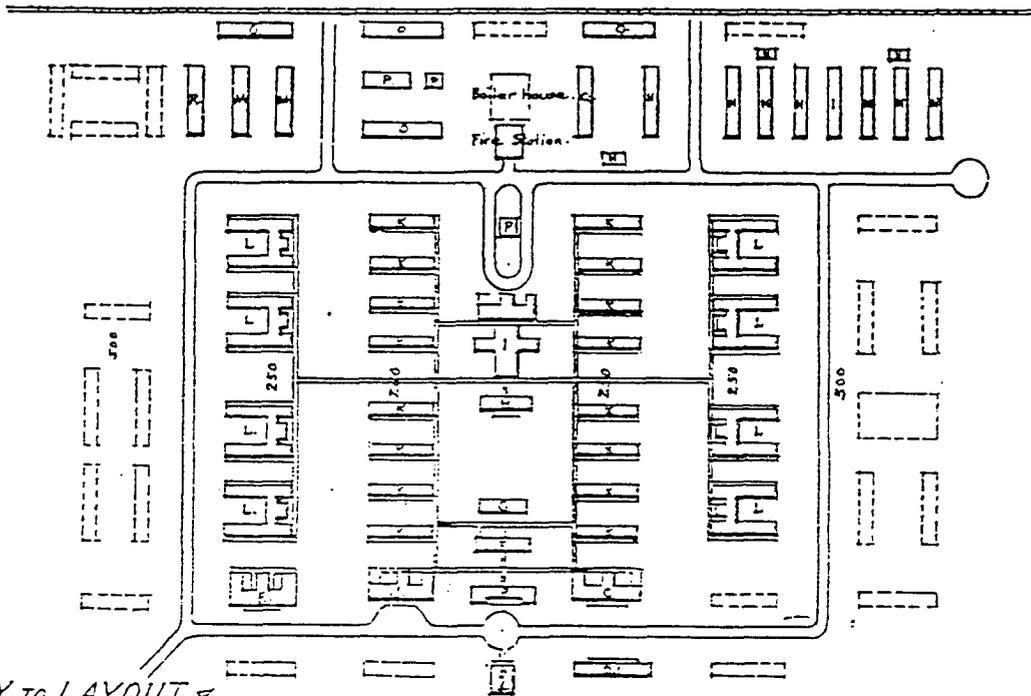
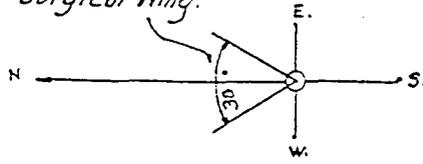
KITCHEN, SERVICE ROOM AND MESS ROOM
 TYPICAL LAYOUT
 FOR
 HOSPITAL MESS AND KITCHEN, 1000 TO 1500 CAPACITY.
 SCALE



FOR DETAIL PLAN, SEE DRAWING 6402-931.

CONSTRUCTION DIVISION OF THE ARMY
 HOSPITAL BUILDINGS
 TYPICAL KITCHEN LAYOUT. SB-14

Maximum Allowable Variation
from North of Transverse Axis of
Surgical Wing.

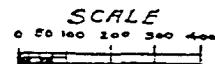


KEY TO LAYOUT

- B Administration
- C Officers Ward
- D-D1 " Quarters.
- E Nurses "
- F Laboratory
- G Operating Pavilion
- H Post Exchange.
- I Garage - Shop.
- J Mess Kitchen
- K Receiving Ward
- L Single Ward
- M Ward & Lavatory
- N Isolation Ward
- O 2-Story Hosp. Corps Barracks.
- P Store House
- P Chapel
- P Mortuary
- P Guard House
- Q Laundry
- R Neuro Psychiatric Ward
- Fire Station
- Baller House
- Red Cross.

CAPACITY 1000 BEDS.

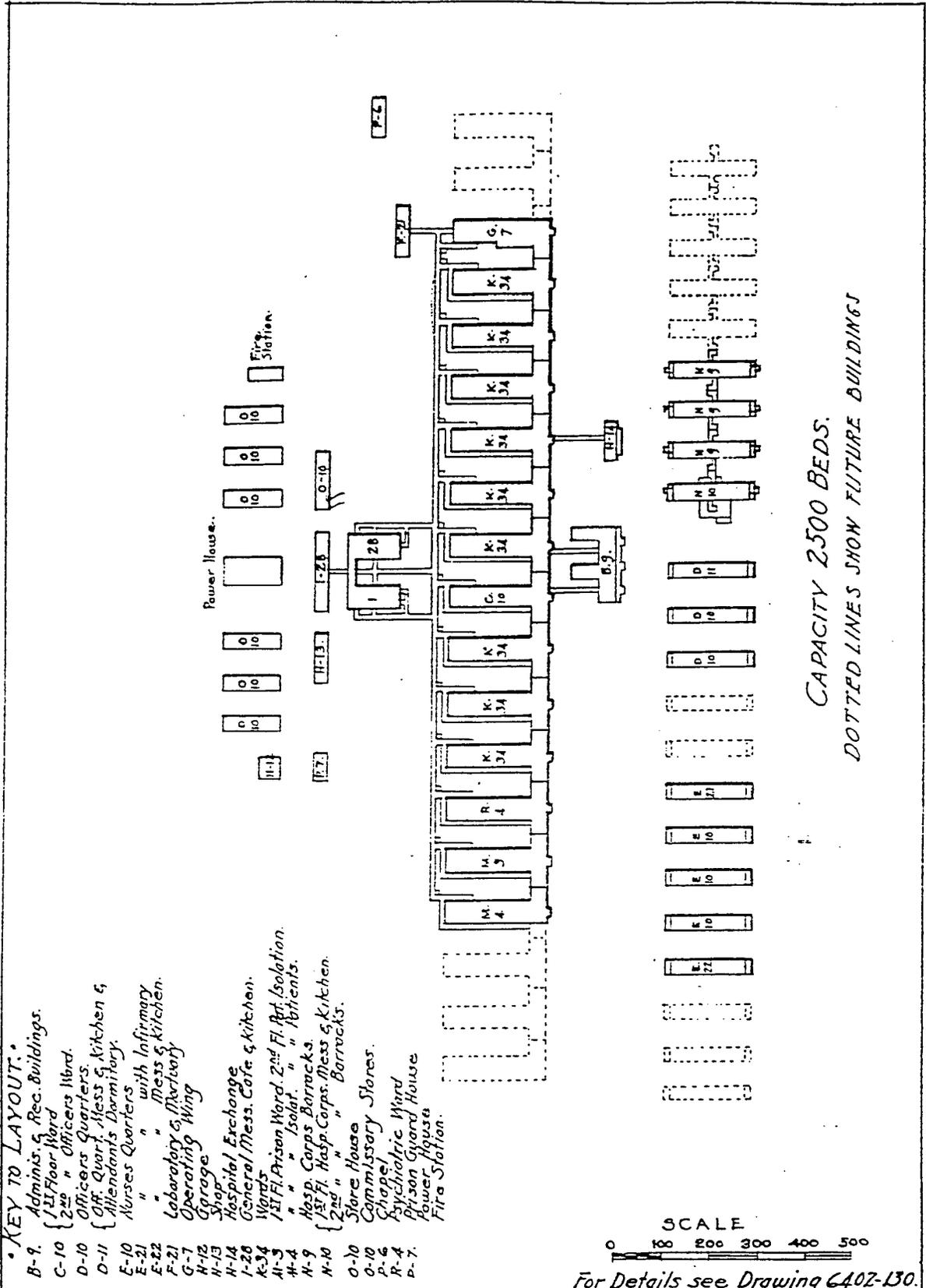
DOTTED LINES SHOW FUTURE BUILDINGS



For Details see Drawing 63Z-78.

CONSTRUCTION DIVISION OF THE ARMY
SCHEMATIC LAYOUT—PAVILION TYPE
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY

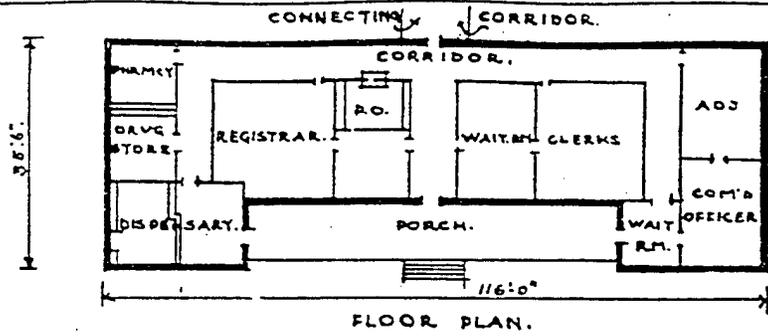
A.
SGO-A



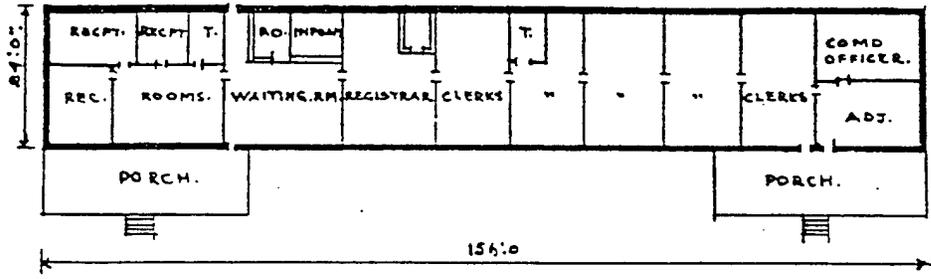
CAPACITY 2500 BEDS.
DOTTED LINES SHOW FUTURE BUILDING

CONSTRUCTION DIVISION OF THE ARMY
SCHEMATIC LAYOUT-HEAD HOUSE TYPE
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY.

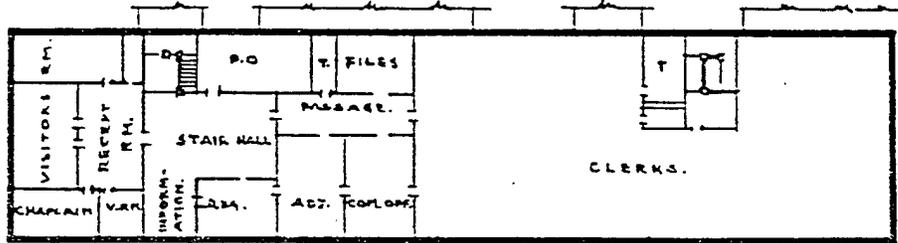
A.
SGO-A1



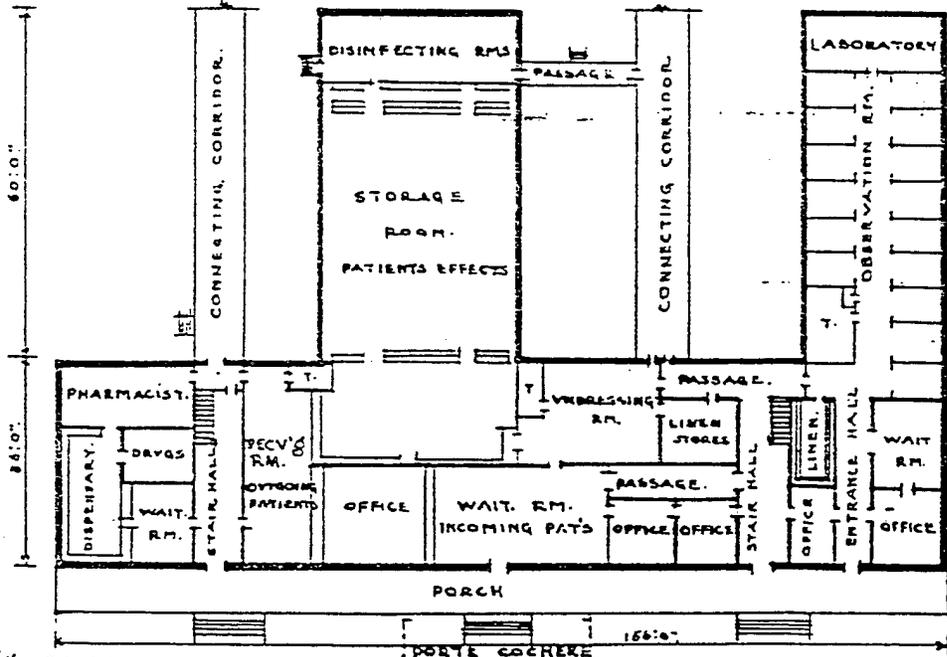
(B)



(B4)



(B9)



(B9)

SCALE 1/8" = 1'-0" 24' FIRST FLOOR PLAN

PORTE COCHERE

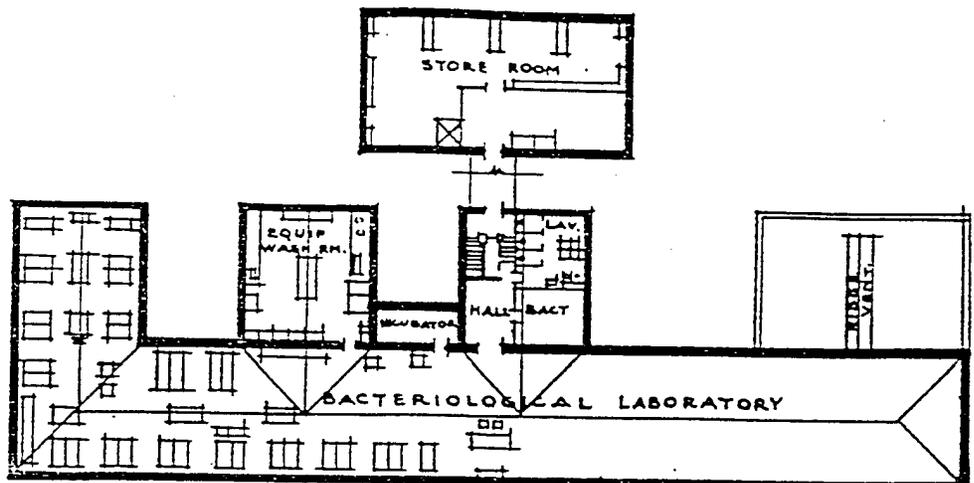
FOR DETAILS SEE DRWG. Z

CONSTRUCTION DIVISION OF THE ARMY.
TYPICAL HOSPITAL BUILDINGS.
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY.

SGO-B

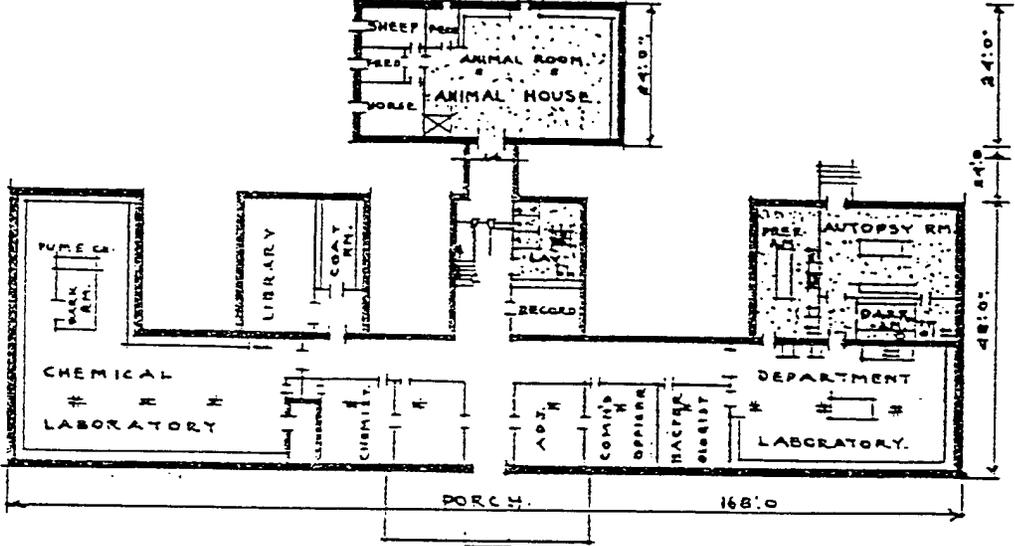
B

ADMINISTRATION



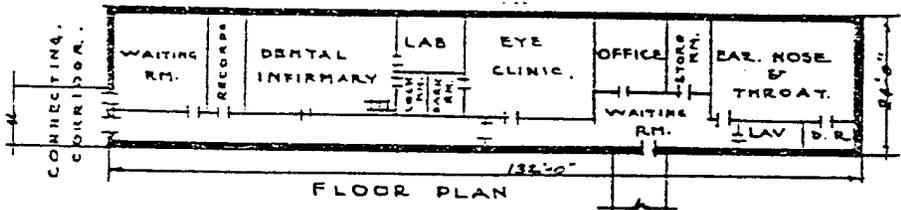
ROOF
SECOND FLOOR PLAN
48'0"

F14



FIRST FLOOR PLAN
DEPARTMENT LABORATORY

F14



FLOOR PLAN
EYE, EAR, NOSE & THROAT CLINIC
DENTAL INFIRMARY

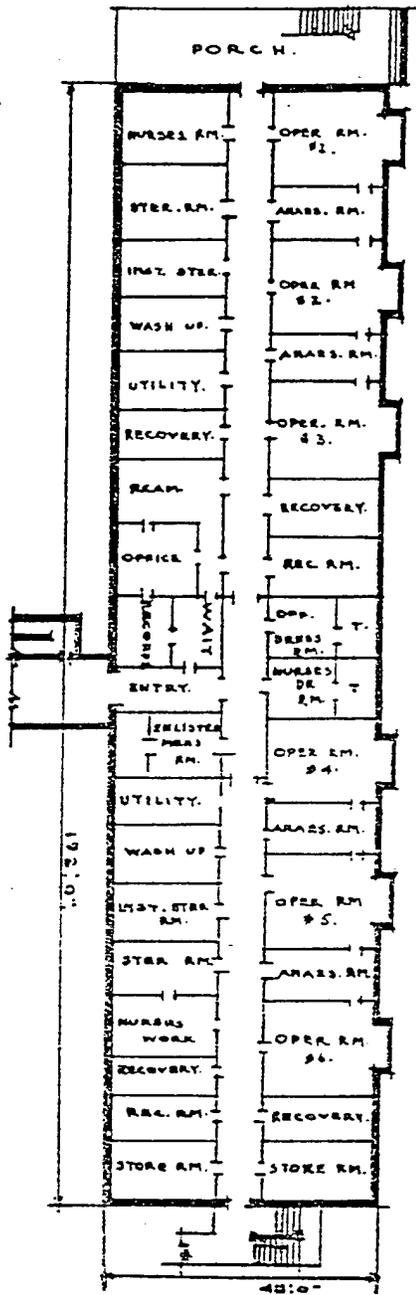
F16

SCALE
0 10 20 30

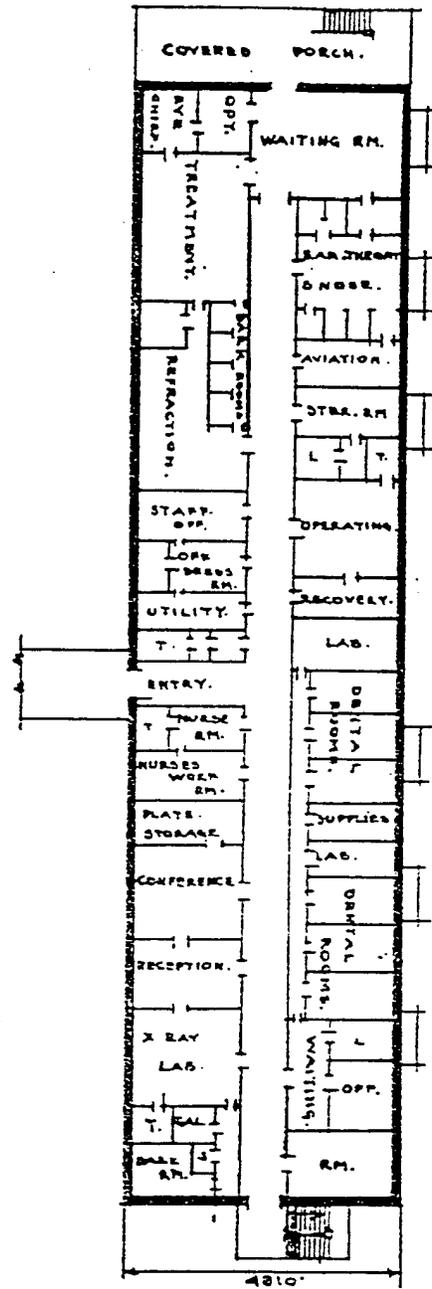
FOR DETAILS SEE DRWG. Z

CONSTRUCTION DIVISION OF THE ARMY.
TYPICAL HOSPITAL BUILDINGS.
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY.

SGO-F
·F·
LABORATORY



FIRST FLOOR PLAN.



SECOND STORY PLAN.

OPERATING PAVILION



SCALE
0 8 16 24 32

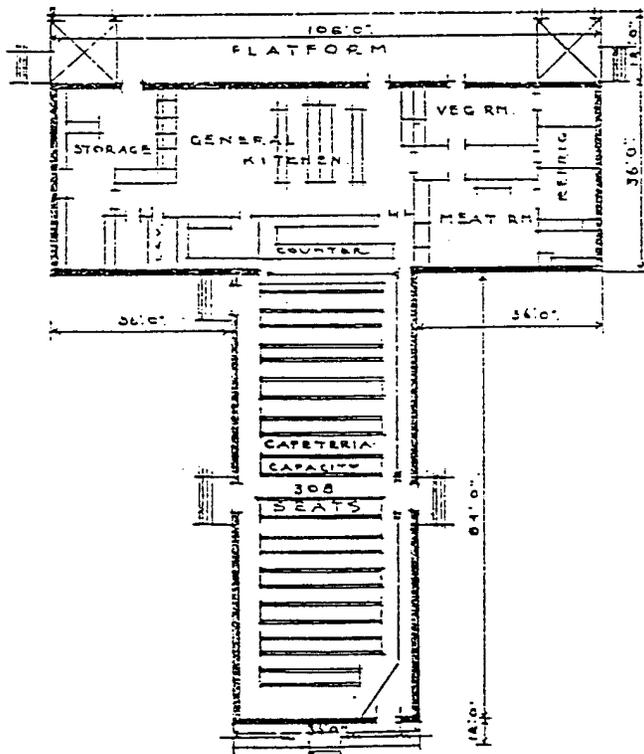
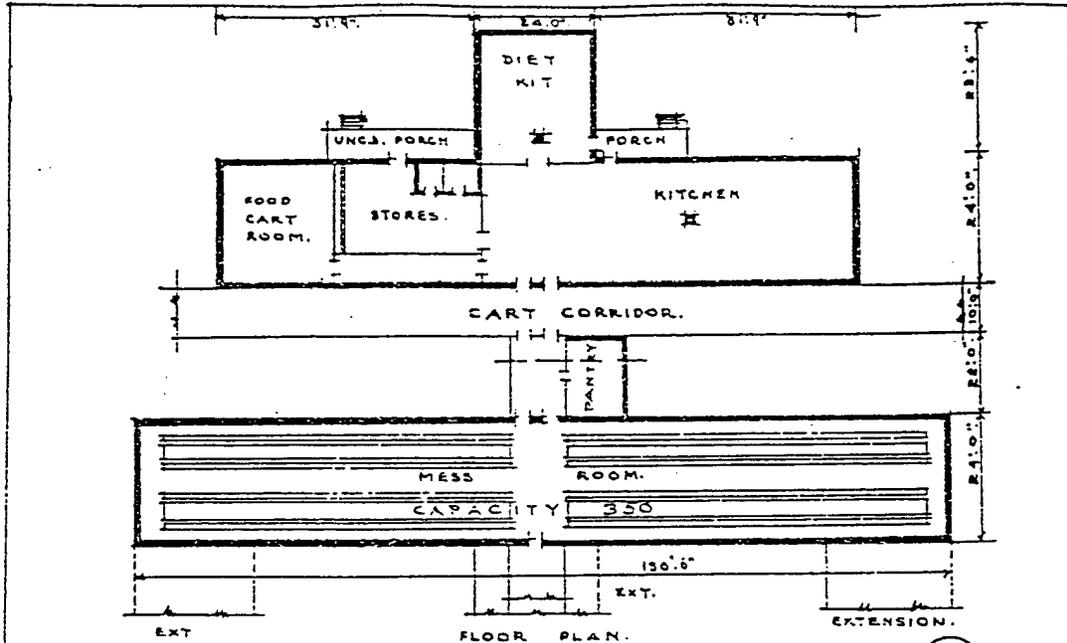
FOR DETAILS SEE DRWG. Z

CONSTRUCTION DIVISION OF THE ARMY.
TYPICAL HOSPITAL BUILDINGS.
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY

SGO-G

G

OPERATING PAY.

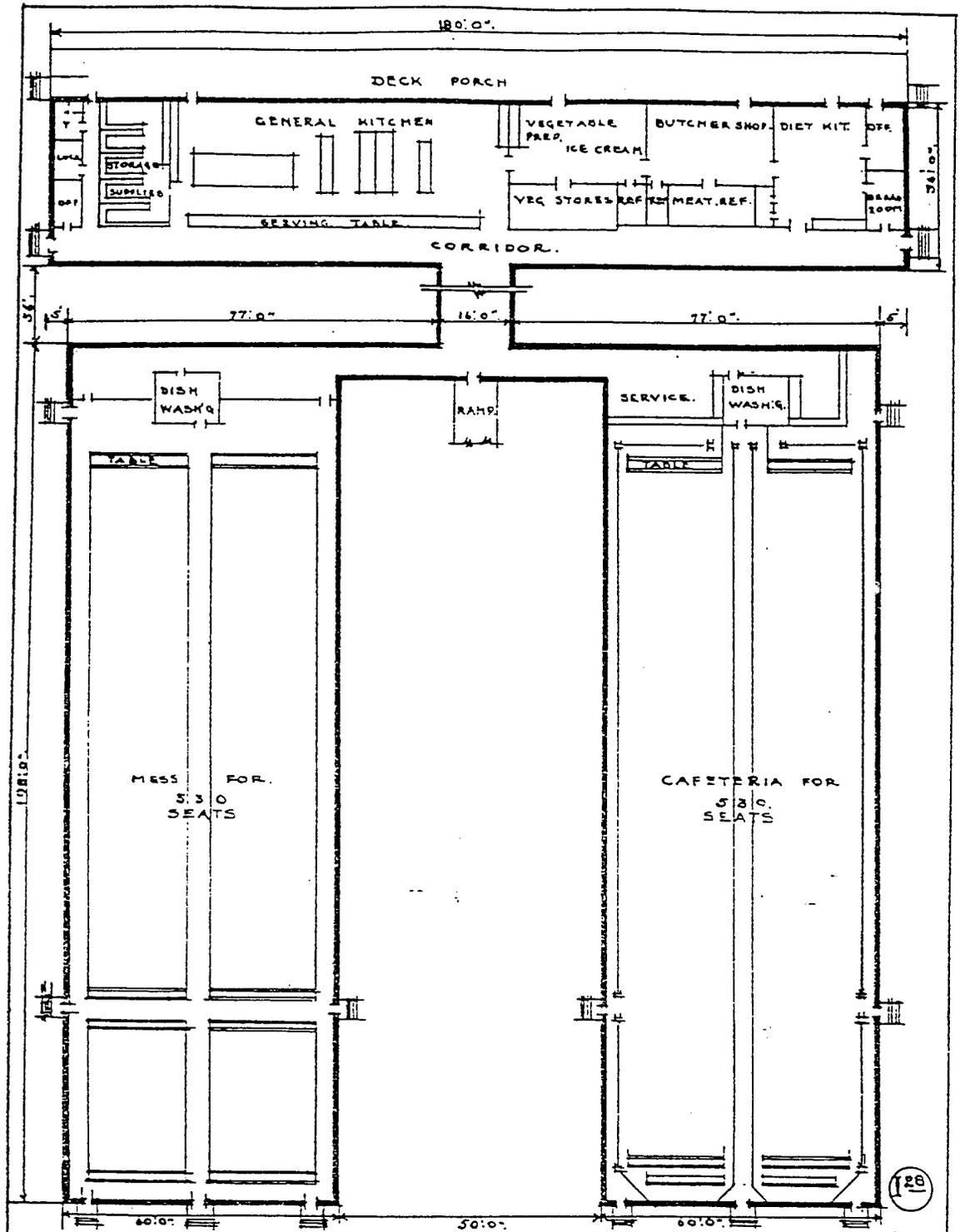


SCALE
0 1 2 3 4 5 6 7 8 9 10

FOR DETAILS SEE DRWG. Z

CONSTRUCTION DIVISION OF THE ARMY.
TYPICAL HOSPITAL BUILDINGS.
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY.

860-I1
•I•
860-I32
KITCHEN+MESS



FLOOR PLAN.
GENERAL MESS & KITCHEN

SCALE
0 8 16 24 32

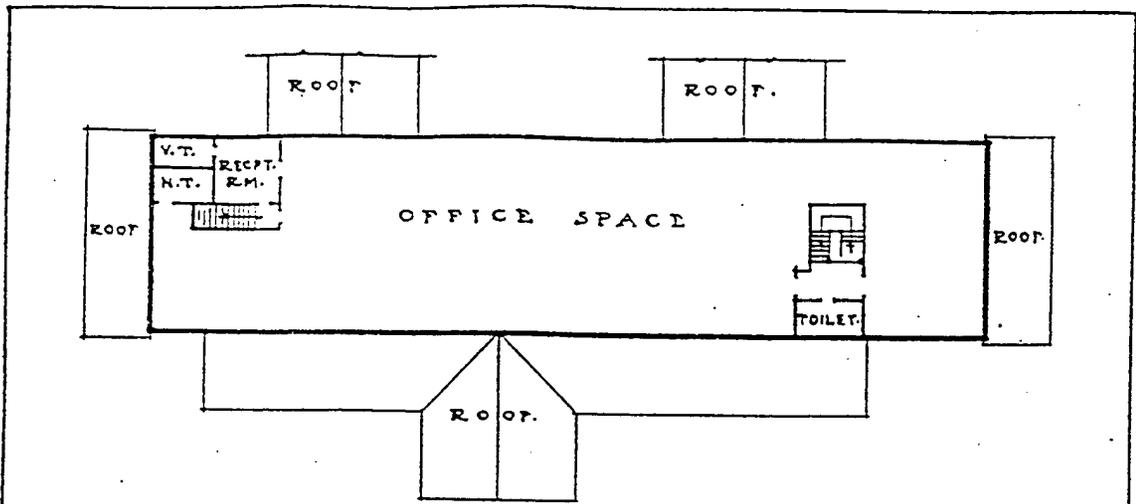
FOR DETAILS SEE DRNG. Z

CONSTRUCTION DIVISION OF THE ARMY
TYPICAL HOSPITAL BUILDINGS.
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY.

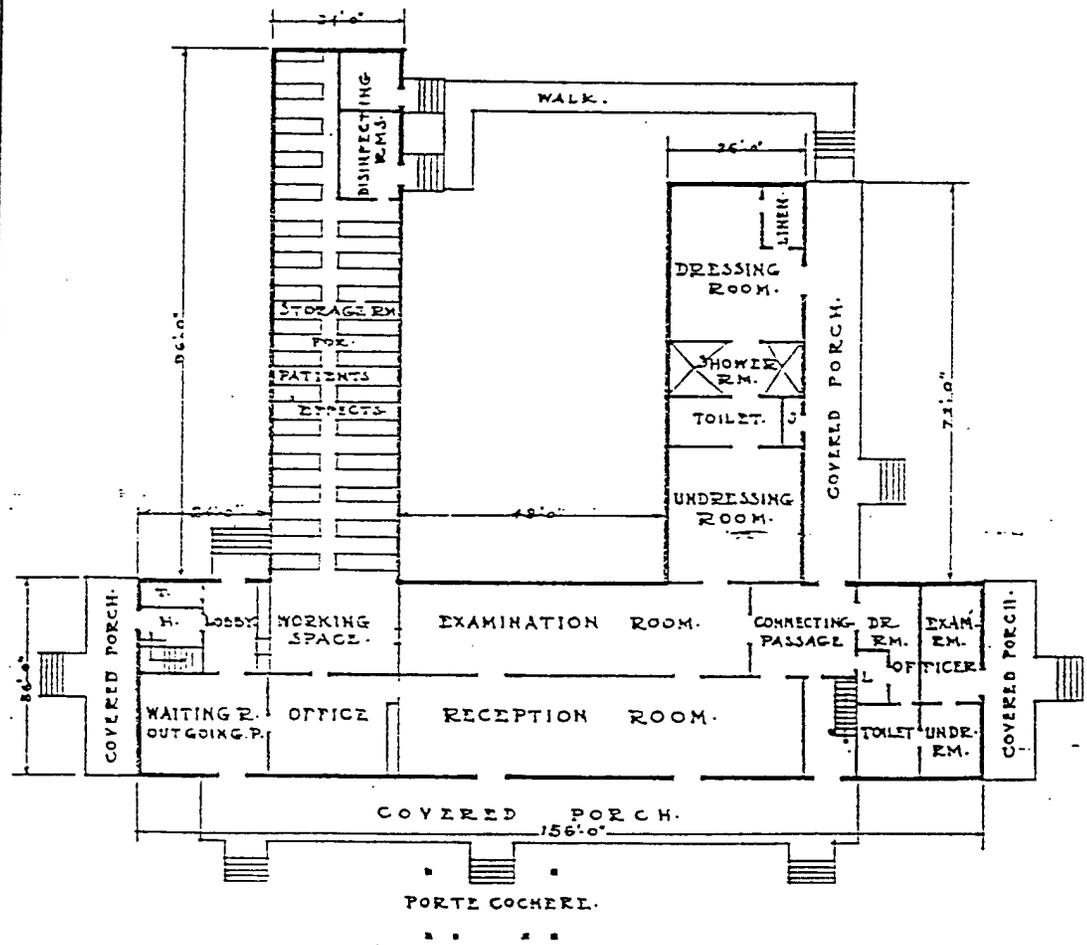
SGO-128

.I.

KITCHEN+MESS.



· SECOND FLOOR PLAN ·



· FIRST FLOOR PLAN ·

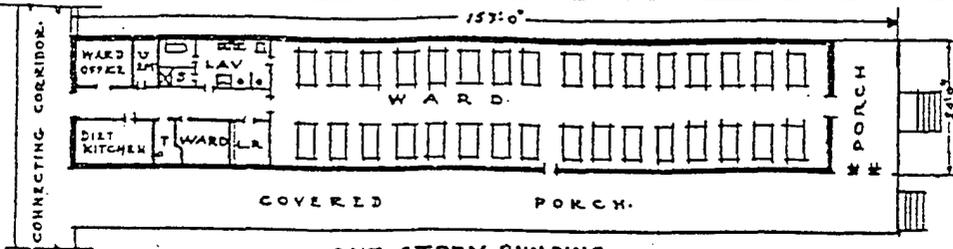
SCALE
0 4 8 12 16 20 24 32

FOR DETAILS SEE DRWG. Z

J15

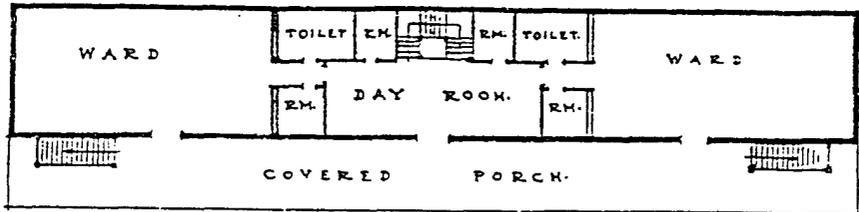
CONSTRUCTION DIVISION OF THE ARMY. TYPICAL HOSPITAL BUILDINGS. CONSTRUCTED FOR THE SURGEON GENERAL OF THE ARMY.

SGO-J
J
RECEIVING BLDG

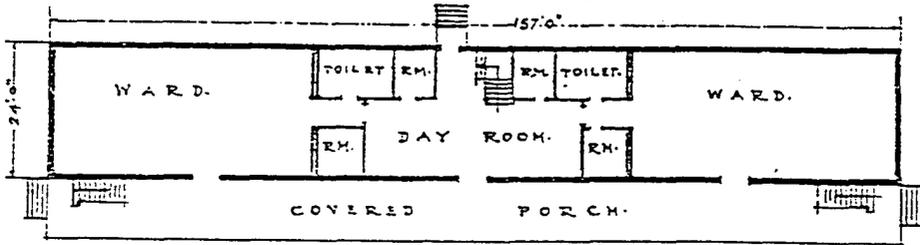


ONE STORY BUILDING
FLOOR PLAN. WARD AND LAVATORY.
REVISED.

(K1)

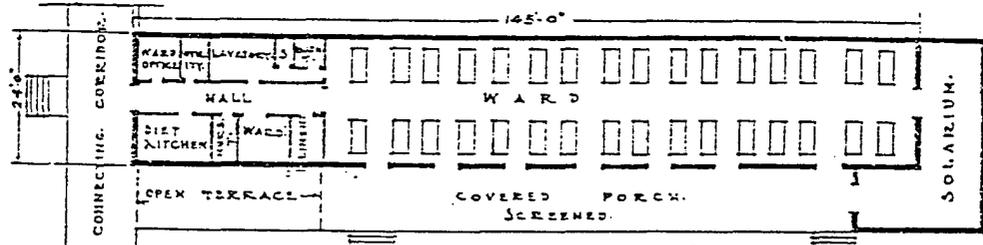


SECOND FLOOR PLAN.



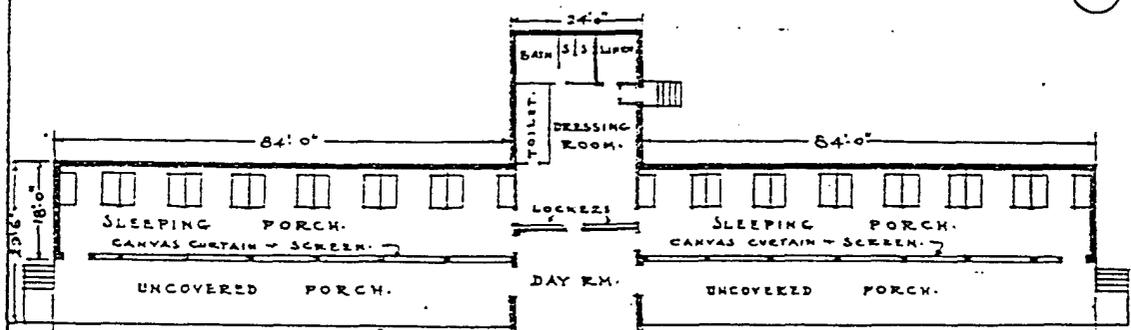
FIRST FLOOR PLAN. WARD BARRACK.

(K5)



ONE STORY BUILDING
FLOOR PLAN. TUBERCULOSIS WARD

(K6)



FLOOR PLAN. TUBERCULOSIS WARD.

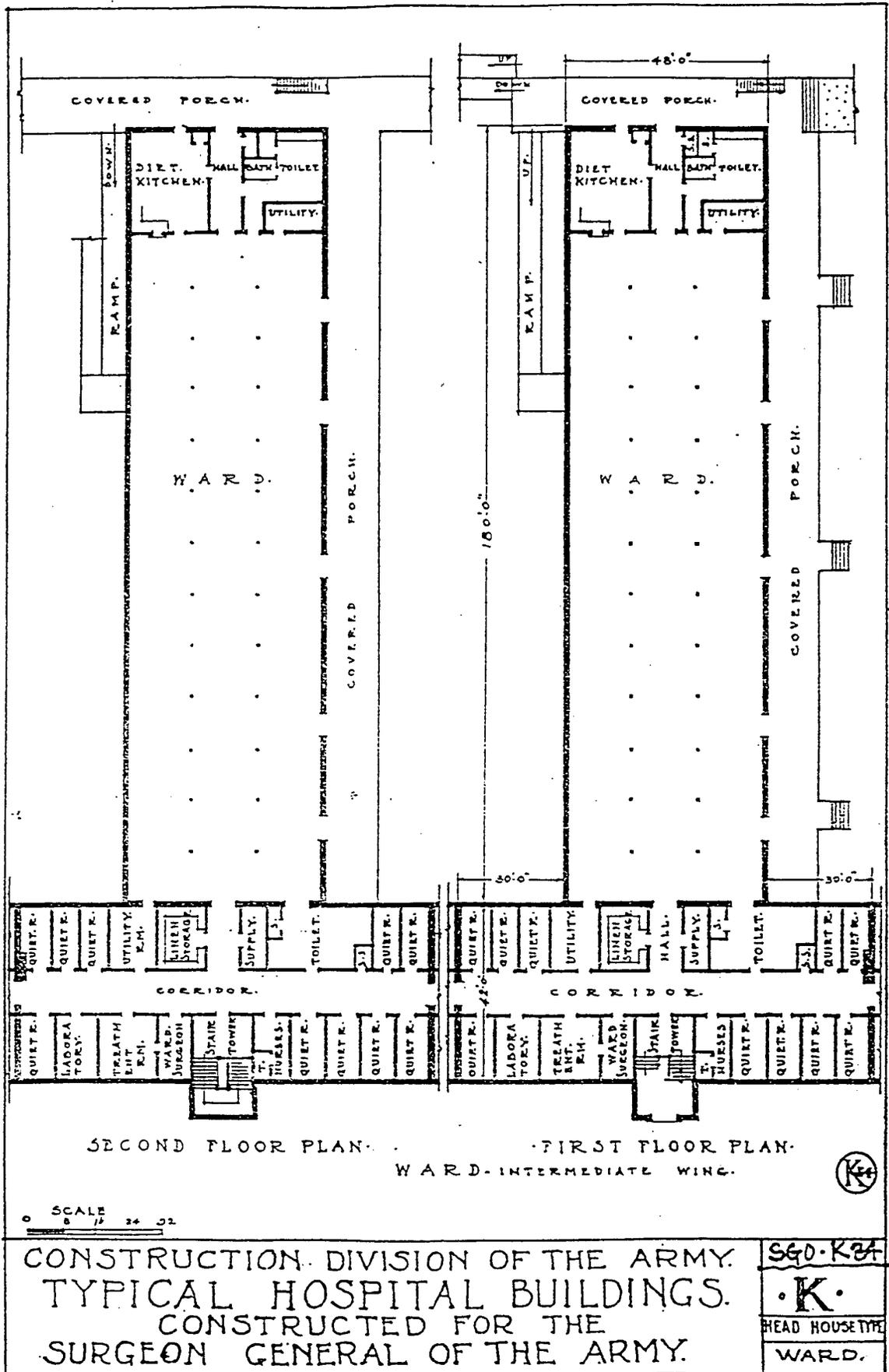
(K4)

SCALE 0 15 30
ONE STORY BUILDG.

FOR DETAILS SEE DRWG. Z

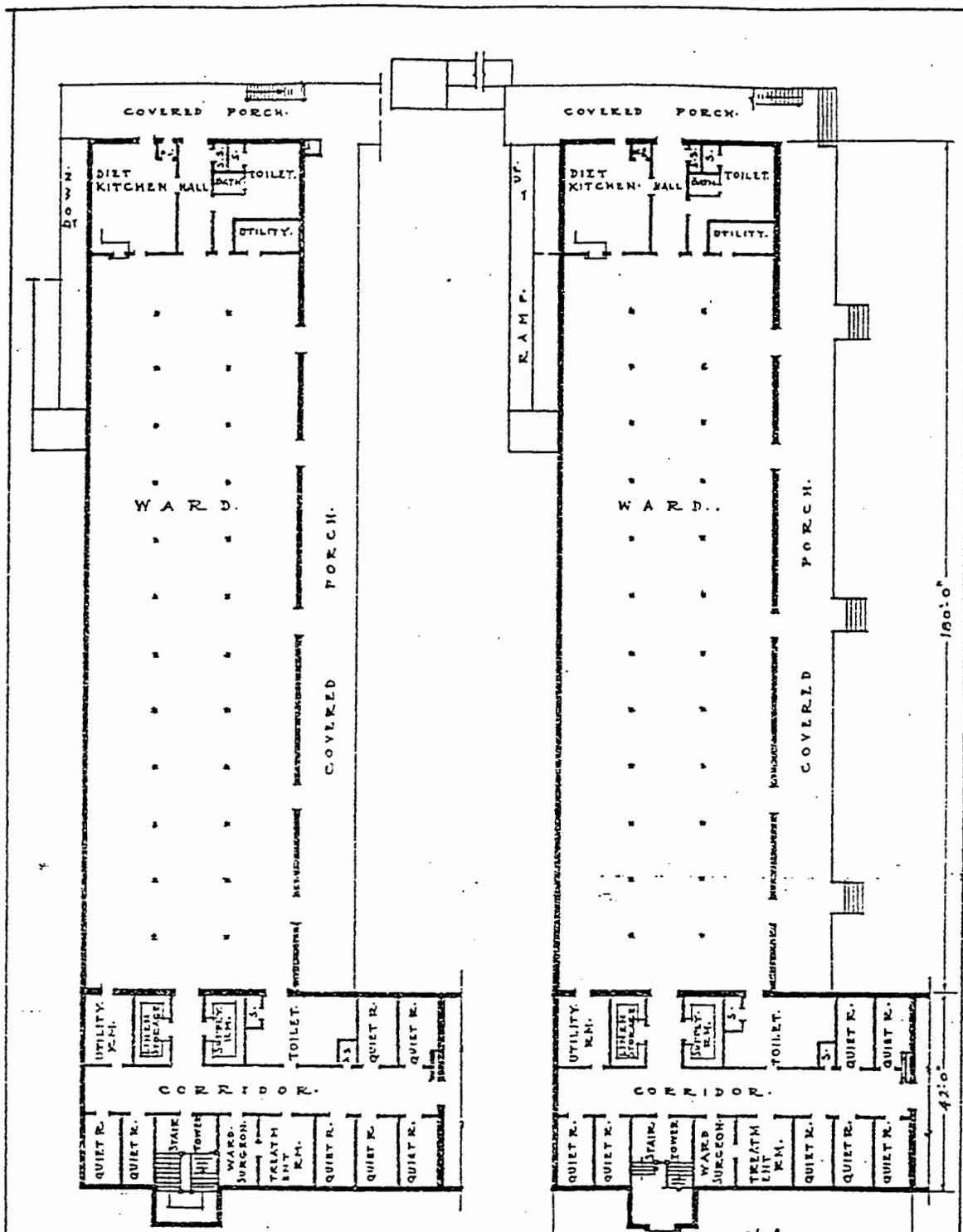
CONSTRUCTION DIVISION OF THE ARMY.
TYPICAL HOSPITAL BUILDINGS.
CONSTRUCTED FOR THE
SURGEON GENERAL OF THE ARMY.

SGO K-1
K
WARD.



CONSTRUCTION DIVISION OF THE ARMY.
 TYPICAL HOSPITAL BUILDINGS.
 CONSTRUCTED FOR THE
 SURGEON GENERAL OF THE ARMY.

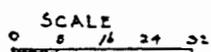
SGO-K24
 K
 HEAD HOUSE TYPE
 WARD



SECOND FLOOR PLAN

FIRST FLOOR PLAN

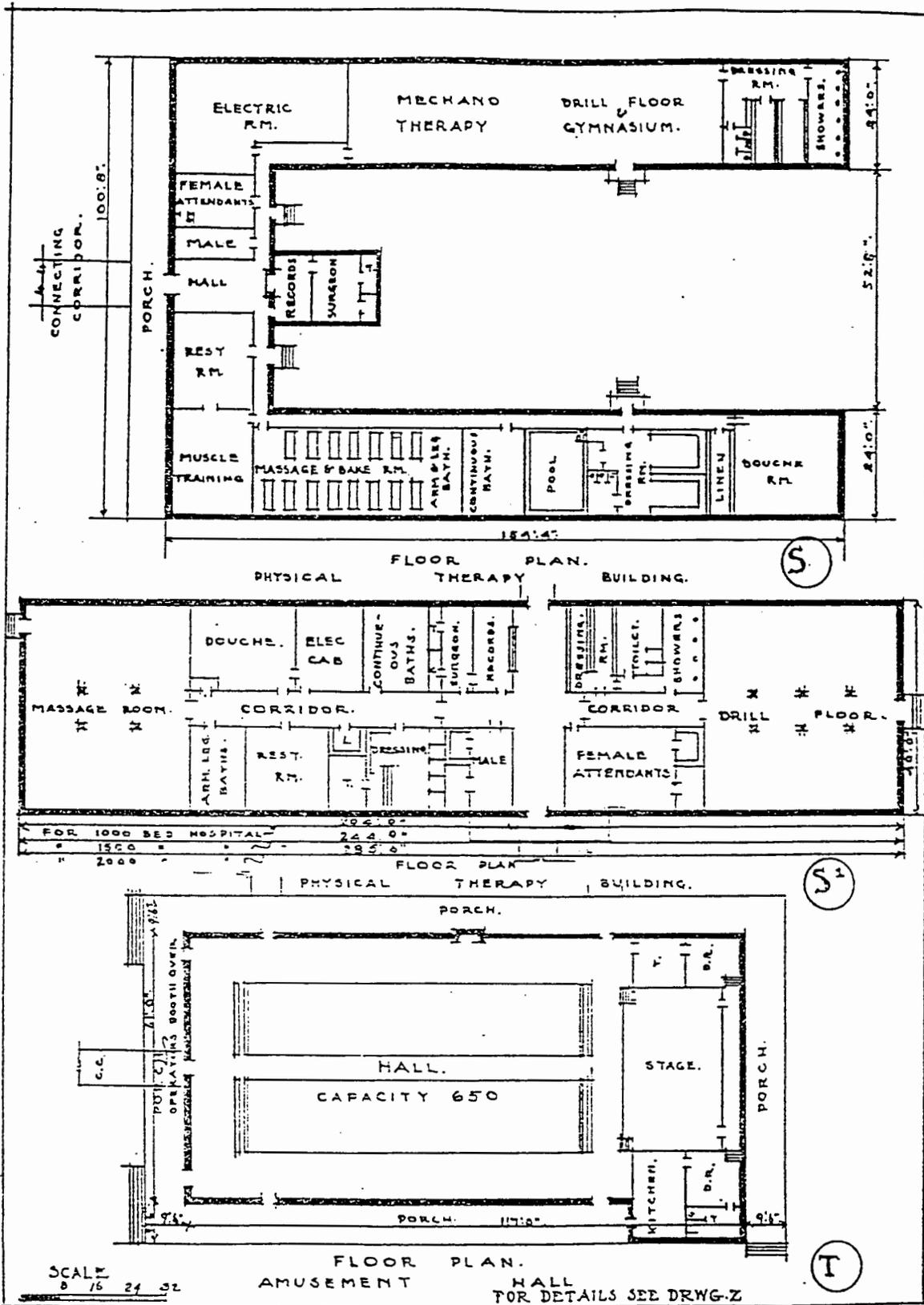
WARD, LEFT END WING.



FOR DETAILS SEE DRWG. Z

CONSTRUCTION DIVISION OF THE ARMY.
 TYPICAL HOSPITAL BUILDINGS.
 CONSTRUCTED FOR THE
 SURGEON GENERAL OF THE ARMY

SGO-K85
 •K•
 HEAD HOUSETYPE
 WARD.



CONSTRUCTION DIVISION OF THE ARMY.
 TYPICAL HOSPITAL BUILDINGS.
 CONSTRUCTED FOR THE
 SURGEON GENERAL OF THE ARMY.

| | |
|---------------|--------------|
| SGO | SGO |
| S. | T. |
| PHYS. THERAPY | AMUSE. BLDG. |

SCHEDULE - BUILDING.

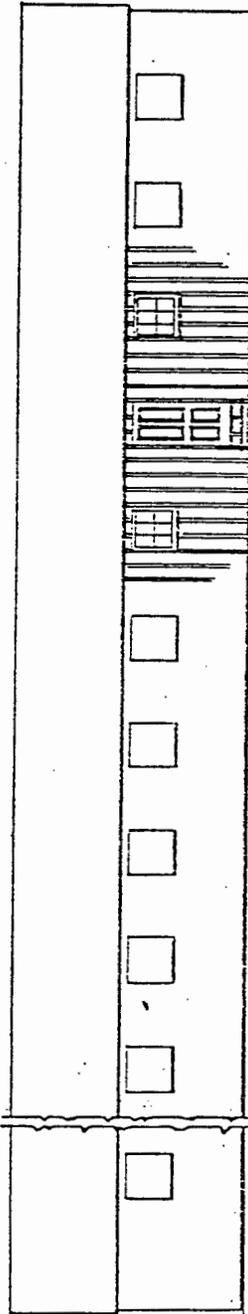
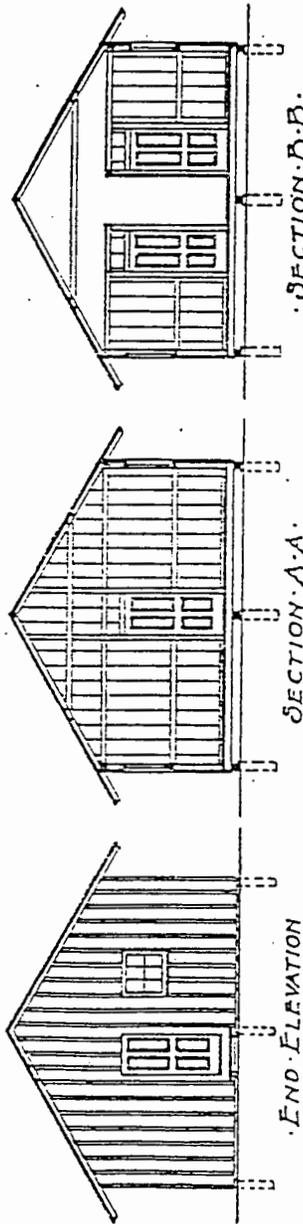
| Length of Building | Number of Bents | Ward | | |
|--------------------|-----------------|----------------|-----------------|---------------|
| | | Length of Ward | Number of Bents | Men to a Bent |
| 98'-0" | 14 | 35' | 5 | 10 15 |
| 112'-0" | 16 | 49' | 7 | 14 21 |
| 126'-0" | 18 | 63' | 9 | 18 27 |

NOTE:—

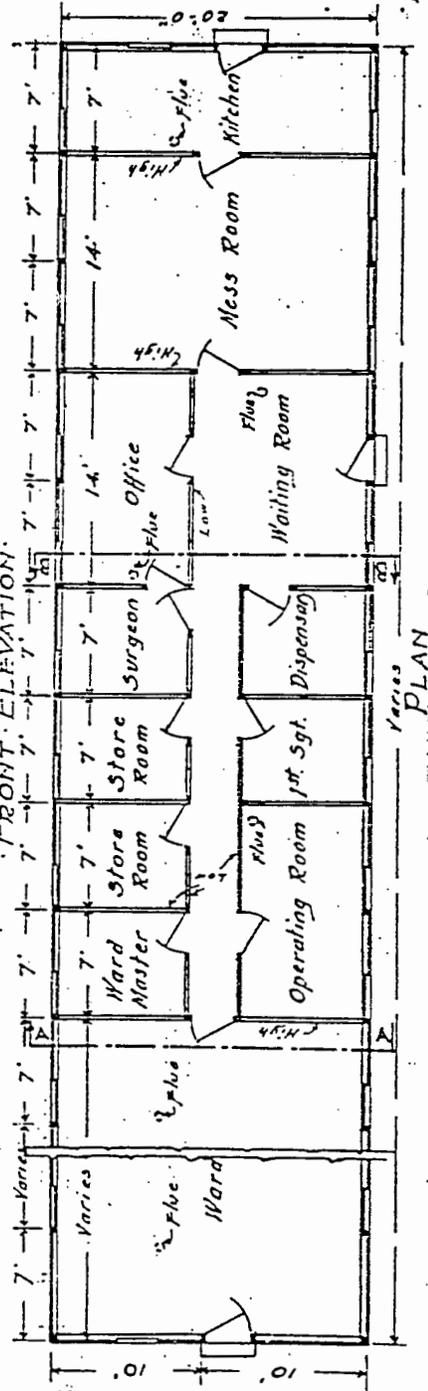
35'-0" Ward to have but 1 flue,
49'-0" and 63'-0" wards to have
2 flues.

HOSPITAL.

Scale - 1/8" = 1'-0"



FRONT ELEVATION.



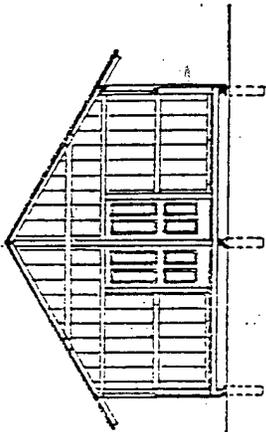
TEMPORARY BUILDINGS FOR MOBILIZATION CAMPS.

SCHEDULE OF BUILDINGS

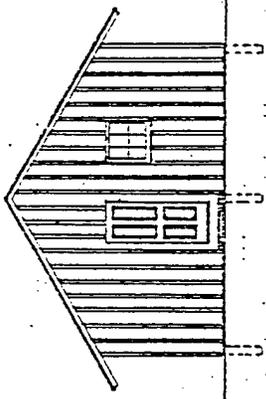
| Length of Bldg. | Number of Nois. Bldg. | Ward Room | | |
|-----------------|-----------------------|-----------|-------------------------|---------------|
| | | Length | Number of Men to a Beat | Men to a Beat |
| 49'-0" | 7 | 42' | 6 | 12 |
| 63'-0" | 9 | 54' | 8 | 16 |
| 77'-0" | 11 | 70' | 10 | 20 |
| 91'-0" | 13 | 84' | 12 | 24 |

NOTE:

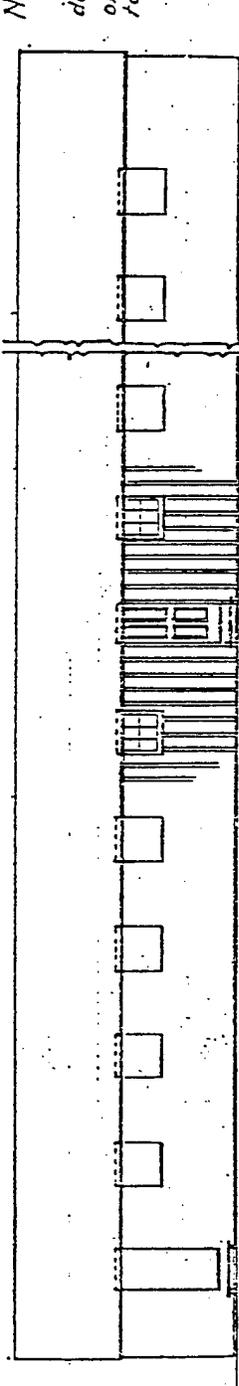
The 49'-0" building has no outside doors on sides of ward room, but only on end. All partitions extend to the roof.



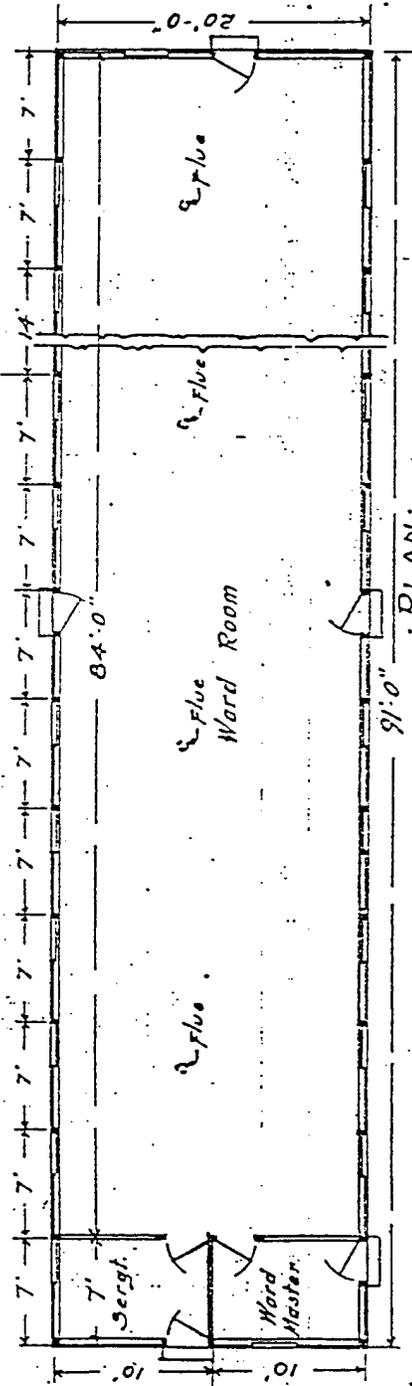
END ELEVATION.



SECTION.

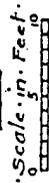


FRONT ELEVATION.



PLAN.

WARD BUILDING.



TEMPORARY BUILDINGS.
FOR
MOBILIZATION CAMPS.

Category: INDUSTRIAL

Type 5 a: Maintenance and Repair Shops

Description:

Maintenance and repair shops were support facilities needed to maintain an installation's buildings, livestock, and equipment. Maintenance and repair shops were built at all installations; the type of shops varied and depended on the installation mission, the technology of the time, and the evolution of logistical support. Maintenance and repair facilities were usually small, one-story, utilitarian buildings that housed a variety of functions and provided work space for maintenance tasks. Maintenance and repair shops generally were located in a secondary service area on Army posts, apart from the main cantonment area. The maintenance and repair shops described in this section are those necessary for the daily operation of installations with non-manufacturing missions; the specialized maintenance and repair shops required for industrial manufacturing are described in the next section of this category.

Evolution:

The earliest general maintenance and repair shops at Army posts were blacksmith, carpenter, wheelwright, and saddler shops. For example, an 1828 plan of Ft. Leavenworth, Kansas, indicates a smith's shop, and an 1867 plan of Ft. Riley, Kansas, depicts carpenter, saddler, and blacksmith shops.¹ Generally, the Quartermaster Department was charged with maintaining supplies, buildings, and animals. During the mid-nineteenth century, the most important shop was the blacksmith shop where horses were shod and a variety of metal implements mended. Second in importance to the blacksmith, was the wheelwright, who mended wagon wheels. Wagon trains transported supplies to the dispersed western fortification.

The Quartermaster Department did not include plans for maintenance and repair shops in regulations proposed in 1860 or 1872. The early and mid-nineteenth century shop buildings generally were constructed of wood frame and were not intended to be permanent buildings. As the Army consolidated its troops into larger garrisons at the end of the nineteenth century, masonry shops buildings were built at selected installations. In 1892, the Quartermaster Department issued a standardized plan for a Quartermaster Shop. The same utilitarian plan for shop buildings continued in use until World War I and was issued with 23 variations. Masonry was the preferred material, though wood frame also was used. The one-story shop buildings had gable or hipped roofs, regular openings, and interior brick chimneys. The late nineteenth- and early twentieth-century shops usually featured segmental-arch window and door frames, while the later shops displayed rectangular openings. In 1915, the Quartermaster Department issued a

¹ Edward DeZurko, "A Report and Remarks on Cantonment Leavenworth", *Kansas Historical Quarterly* XV, No. 4, November 1947, 354; National Archives and Records Administration, Cartographic Branch, Record Group 77, Drawer 29.

standard plan for a shop with galvanized corrugated steel roof and walls with paired, swinging doors in one gable end.²

Maintenance and repair shops varied in size and functions. In general, shop buildings were designed as utilitarian structures that could serve multiple functions. During the late nineteenth and early twentieth centuries, maintenance and repair shops could serve the blacksmith, wheelwright, carpenter; the blacksmith alone; or, the blacksmith, plumber and tinner, painter, and carpenter. The same building type could be used as an artillery workshop for the blacksmith, saddler, and wheelwright, or as an ordnance workshop with a forge and workshop space.

The functions of Quartermaster shops evolved between the late nineteenth century and the end of the 1930s. By the turn-of-the-century, railroads had replaced wagon trains and wheelwrights were no longer needed. During the inter-war period, the Army began to use trucks to transport supplies. The construction of blacksmith shops and quartermaster garages illustrates that both horses and motorized vehicles had roles on Army posts during the 1930s.

During the wave of construction following the enactment of Public Law 45 in 1926, which authorized the Secretary of War to deposit funds from the sale of unneeded installations into a Military Post Construction Fund for new construction, the appearance and size of maintenance and repair shops underwent noticeable changes. Maintenance and repair shops of this era generally were brick utilitarian structures with industrial sash windows; they were bigger than their predecessors to accommodate the repair of larger equipment or motorized vehicles. The Army posts of this era often required several shop buildings to service the increased numbers of structures and amount of equipment. The basic maintenance and repair shop building design could accommodate a variety of uses, including motor vehicle repair shops, aviation repair facilities, and utility buildings. On Army posts, maintenance and repair buildings continued to be located in a separate service area, while on Army Air Corps fields, maintenance and repair shops were integrated into the installation plan along the flight line near the airplane hangars.

Association:

The construction of maintenance and repair shops was related directly to the evolution of logistical support for military missions. The types of maintenance and repair activities depended on installation maintenance needs, transportation technology, and weapons technology.

Maintenance and repair buildings generally are utilitarian structures located in the service areas of an installation. They usually do not possess individual historic or architectural significance; however, they may be contributing buildings in an historic district if they are within the boundaries of a concentration of buildings from the district's period of significance and retain sufficient exterior integrity to convey the period of significance. The significance of the historic district is the key factor in determining how important support facilities, such as repair and maintenance shops, are to the character of the district. For a district eligible for its design, the

² NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, Pi NM-19, Entry 411, Plans 59, 397.

shop buildings may have less relevance, whereas for a district eligible for its ability to represent a development in military technology, such as aviation, then the shop buildings, such as airplane repair shops, are more relevant to the district's significance.

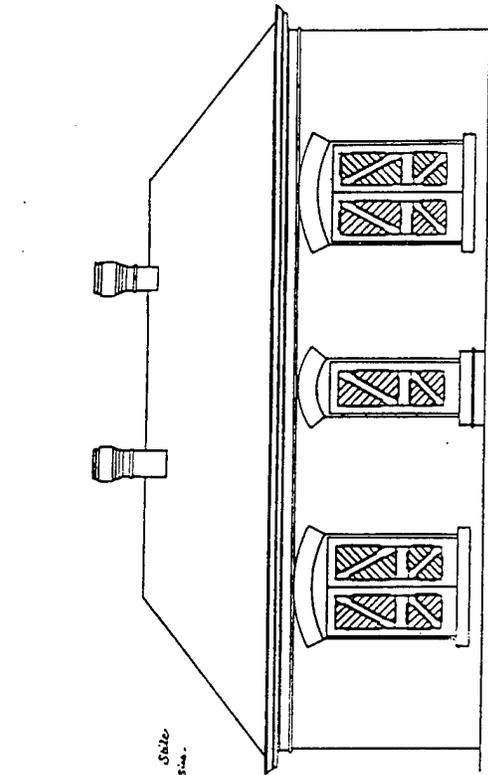
Integrity:

To possess integrity as defined by the National Register, maintenance and repair shops should retain most of the design features and external construction materials from their periods of construction. Character-defining features of surviving nineteenth- and early twentieth-century shops include rectangular shape, gable or hip roof form, masonry exterior materials, chimneys, and regular patterns of openings, often set in segmental-arch frames. Twentieth-century maintenance and repair shops exhibit more variations. Army motor vehicle and aircraft repair shops from this later period generally are rectangular, masonry buildings with gable roofs, corner piers, and industrial sash windows. Twentieth-century shops often retain their original functions, but usually have undergone modifications to accommodate changes in equipment. Exterior elements that may have been modified include original window and door openings. In the event of subsequent additions or renovations, the building may have integrity if it retains the majority of the features that illustrate its design in terms of massing, proportion, pattern of windows and doors, materials, and architectural details.

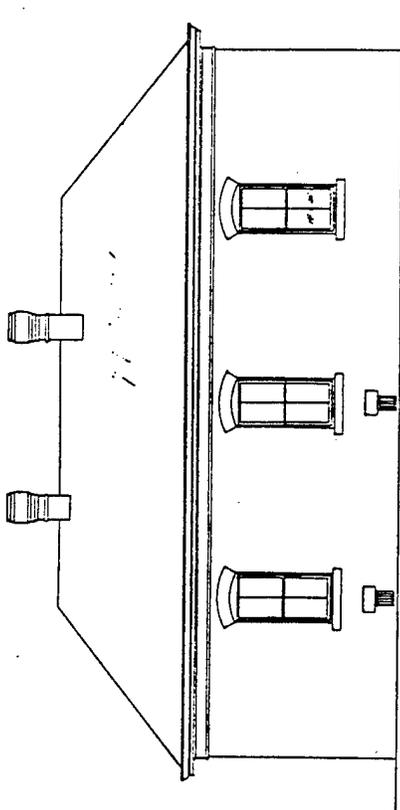


1930's Maintenance & Repair Shop Complex at Fort Gillem, Georgia

Section of Door Sill
 Similar J.C.M. Sill.

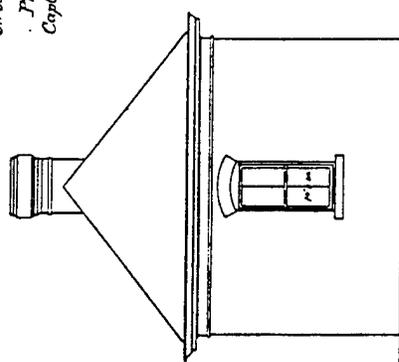


Front Elevation

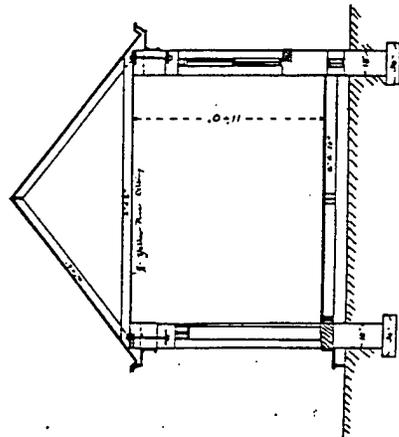


Rear Elevation

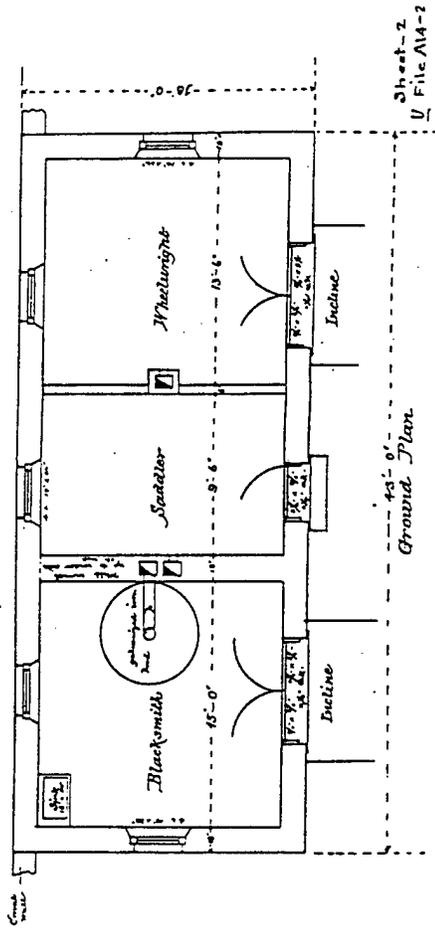
Battery Workshops
 for
 Artillery Post, Fort Riley, Kans.
 Prepared under the direction of
 Capt. Geo. B. Ford, A. Q. M., U.S.A.
 Scale: 1/4" = 1'



End Elevation



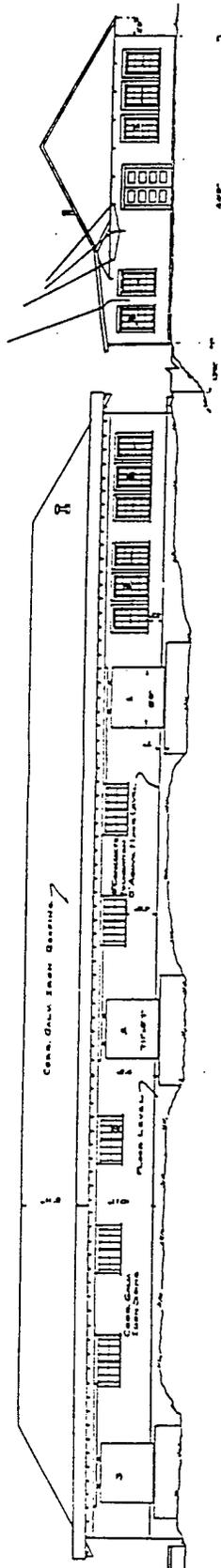
Transverse Section
 across Wheelwright & Saddler Shops.



Ground Plan

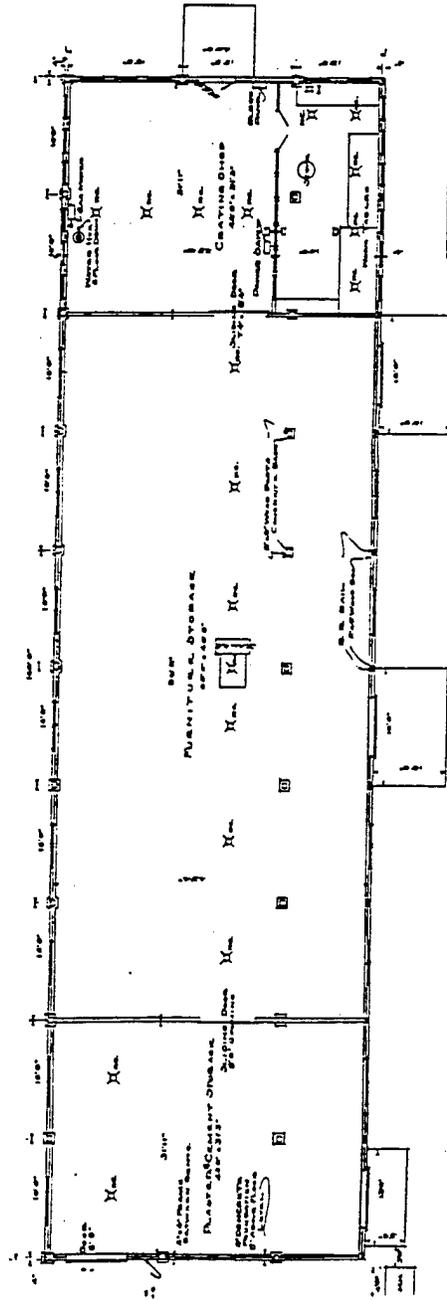
Sheet-2
 U File A14-2

1884.82.117
 1884 1886



EAST ELEVATION
Scale: 1/8" = 1'-0"

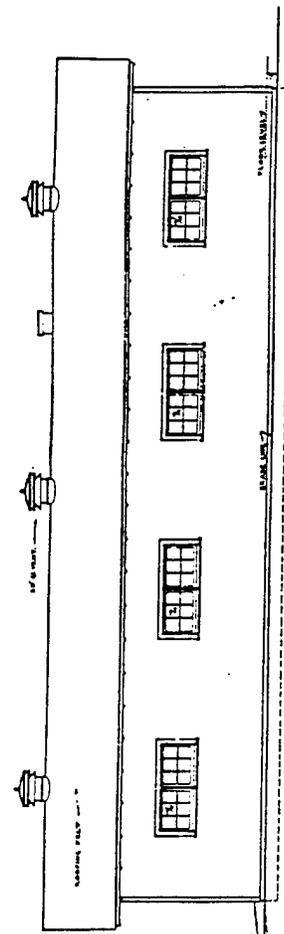
NORTH ELEVATION
Scale: 1/8" = 1'-0"



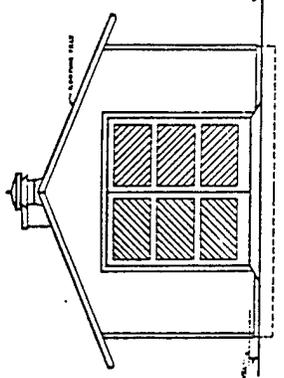
FLOOR PLAN COATING SHOP
Scale: 1/8" = 1'-0"

CREATED TO DATE, FEBRUARY 28, 1938

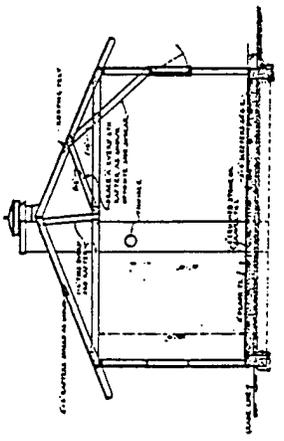
| | | |
|------------------------|------------------------|---------------------------------|
| UTILITIES SECTION | QMC | FST BILLY, KANS. |
| DESIGN | PACKING & COATING SHOP | BUILDING No. 230-311 |
| CHECKED BY | DATE | APPROVED BY |
| W. J. BELNEB | FEB 28 1938 | M. J. BELNEB |
| QMC | QMC | QMC QUARTERMASTER |
| SUBMITTED BY | | APPROVED BY |
| CAPTAIN W. L. HAMILTON | | GUY V. HENRY |
| UTILITIES OFFICER | | DESIGNEE GENERAL USA COMMANDANT |
| | | 1938B141 |



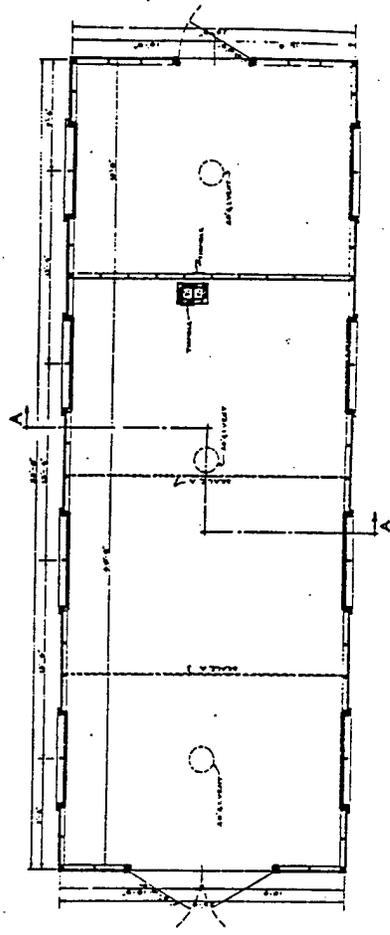
- SIDE-ELEVATION -
SCALE 1/8"



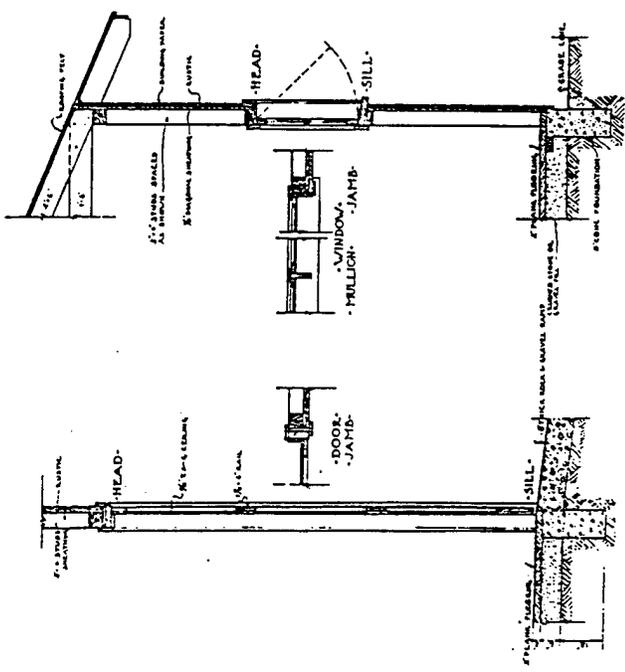
- END-ELEVATION -
SCALE 1/8"



- SECTION-A-A -
SCALE 1/8"

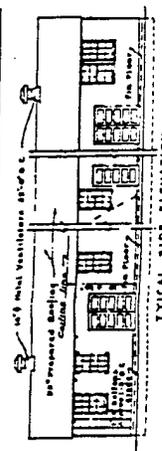
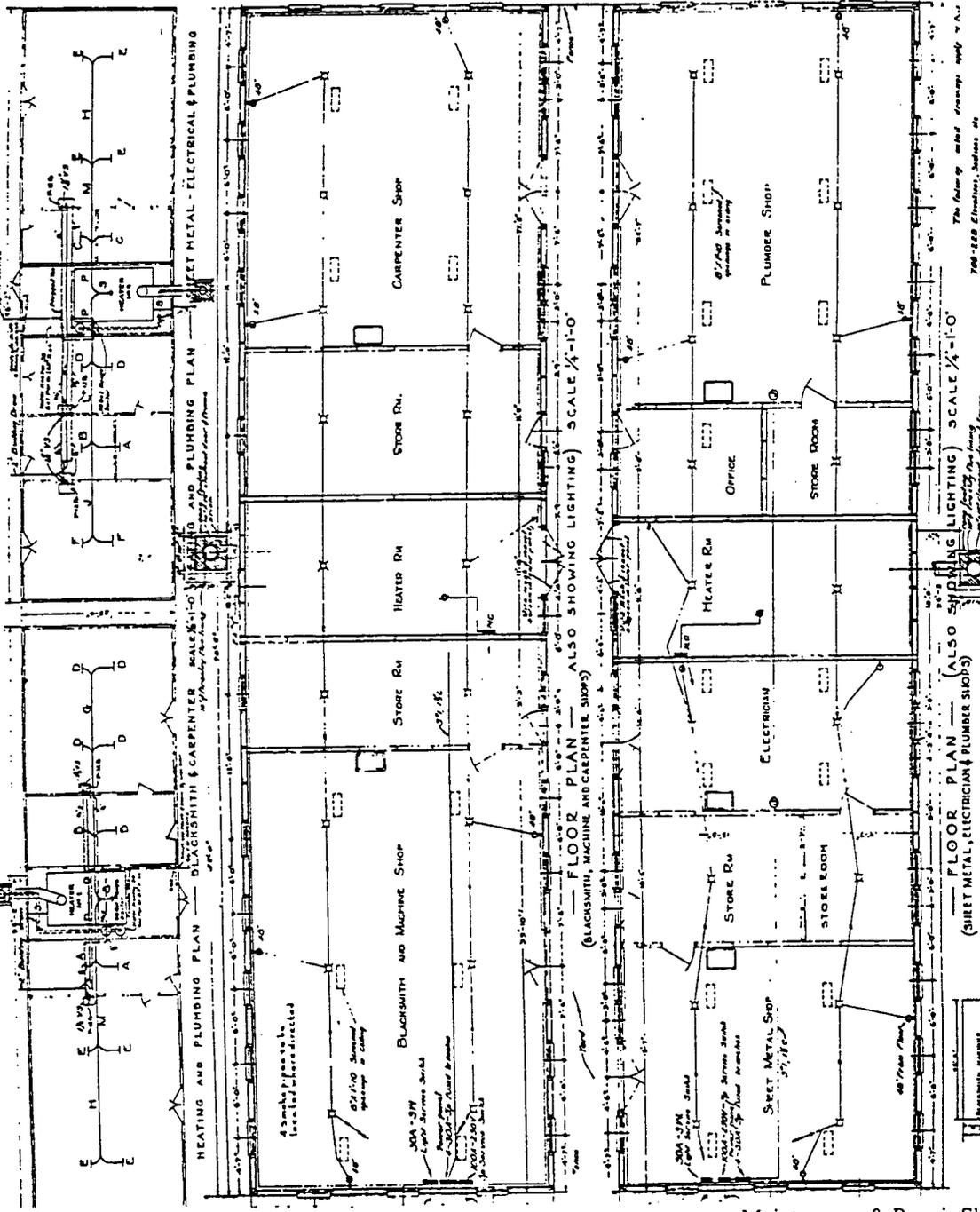


- PLAN -
SCALE 1/8"



- SECTION -
THRO-WINDOW -
SCALE 1/8"

- SECTION -
THRO-DOOR -
SCALE 1/8"



MEASURING SCHEDULE

| Item | Qty | Unit | Size | Remarks |
|------|-------|---------|-------|---------|
| A | 10.00 | Sq. Ft. | 10.00 | ... |
| B | 10.00 | Sq. Ft. | 10.00 | ... |
| C | 10.00 | Sq. Ft. | 10.00 | ... |
| D | 10.00 | Sq. Ft. | 10.00 | ... |
| E | 10.00 | Sq. Ft. | 10.00 | ... |
| F | 10.00 | Sq. Ft. | 10.00 | ... |
| G | 10.00 | Sq. Ft. | 10.00 | ... |
| H | 10.00 | Sq. Ft. | 10.00 | ... |
| I | 10.00 | Sq. Ft. | 10.00 | ... |
| J | 10.00 | Sq. Ft. | 10.00 | ... |
| K | 10.00 | Sq. Ft. | 10.00 | ... |
| L | 10.00 | Sq. Ft. | 10.00 | ... |
| M | 10.00 | Sq. Ft. | 10.00 | ... |
| N | 10.00 | Sq. Ft. | 10.00 | ... |
| O | 10.00 | Sq. Ft. | 10.00 | ... |
| P | 10.00 | Sq. Ft. | 10.00 | ... |
| Q | 10.00 | Sq. Ft. | 10.00 | ... |
| R | 10.00 | Sq. Ft. | 10.00 | ... |
| S | 10.00 | Sq. Ft. | 10.00 | ... |
| T | 10.00 | Sq. Ft. | 10.00 | ... |
| U | 10.00 | Sq. Ft. | 10.00 | ... |
| V | 10.00 | Sq. Ft. | 10.00 | ... |
| W | 10.00 | Sq. Ft. | 10.00 | ... |
| X | 10.00 | Sq. Ft. | 10.00 | ... |
| Y | 10.00 | Sq. Ft. | 10.00 | ... |
| Z | 10.00 | Sq. Ft. | 10.00 | ... |

TYPICAL WALL SECTION
SCALE 3/4" = 1'-0"

TYPICAL END ELEVATION
SCALE 3/4" = 1'-0"

TYPICAL SECTION FOR ALL PARTITIONS
SCALE 3/4" = 1'-0"

Dimensions are shown for all work for exterior walls, see center to center of wall for partitions.
At interior walls, walls are finished on both sides.
All work is to be done in accordance with the specifications.
All work is to be done in accordance with the specifications.
All work is to be done in accordance with the specifications.

OFFICE OF THE QUARTERMASTER GENERAL

MOBILIZATION BUILDINGS

SHOP-UTILITIES, COMBINATION, Q.M.C.

PLANS, ELEVATIONS AND DETAILS

TYPE - SP-10

700 317

REVISIONS

| No. | Date | Description |
|-----|------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

LEGEND

- 4-C Induction-Make Cooled
- Wall Blank
- Call Water
- Call Electric
- Call Gas
- Call Sewer
- Call Storm
- Call Vent
- Call Other

FLOOR PLAN (ALSO SHOWING LIGHTING) SCALE 1/4" = 1'-0"

(SHEET METAL, ELECTRICIAN & PLUMBER SHOPS)

BLACKSMITH, MACHINE AND CARPENTER SHOPS

BLACKSMITH AND MACHINE SHOP

CARPENTER SHOP

PLUMBER SHOP

OFFICE

STORE ROOM

HEATED ROOM

ELECTRICIAN

STORE ROOM

STORE ROOM

BLACKSMITH AND MACHINE SHOP

CARPENTER SHOP

PLUMBER SHOP

OFFICE

STORE ROOM

HEATED ROOM

ELECTRICIAN

STORE ROOM

STORE ROOM

Category: INDUSTRIAL

Type 5 b: Manufacturing Complexes

Description:

Between 1790 and 1940, the military constructed manufacturing complexes to supply needed equipment, weaponry, weaponry supplies, and capital items. For most of the time period included in this study, military-operated manufacturing complexes consisted of two types: weapons production and shipbuilding facilities. Structures associated with shipbuilding generally belong to the Navy and are not part of this study. Both Navy and Army manufacturing complexes, however, are characterized by functional design. Army complexes were arranged to facilitate manufacturing processes, from acquiring and storing raw materials, through the manufacturing processes, to storage and shipping of final products. Nineteenth-century industrial buildings that housed different manufacturing processes, except for some specialized processes such as the manufacture of gunpowder, exhibited little exterior differentiation. Nineteenth-century industrial buildings sometimes exhibited classically-inspired architectural ornamentation typical of the era. By the late nineteenth century, as both production technology and the items produced became more complex, industrial buildings grew larger, were tailored to specific manufacturing processes, and exhibited functional designs. Technological developments required either the continual improvement and alteration of older facilities or the construction of new facilities. In general, few manufacturing industrial complexes were designed as complete entities at one time. Generally, they were the result of the evolution of technological advancements over a period of time through the addition of new, larger buildings that embodied construction techniques and architectural expressions popular at the time of their construction.

Evolution:

Arsenals and armories. Between 1790 and 1940, the Army's manufacturing complexes generally consisted of ordnance production, that is weapons and ammunition. The Ordnance Department controlled two types of installations: armories and arsenals. Armories produced small arms, while arsenals stored, repaired, or manufactured other forms of ordnance. When used for manufacturing, arsenals generally concentrated on secondary ordnance items such as cannon carriages or kits for artillerymen. The earliest two armories were located at Springfield, Massachusetts and Harpers Ferry, West Virginia. These two armories were the principal production facilities for muskets, rifles, and other small arms. By the 1840s, the duties of the arsenal had been expanded to powder proofing, repair of guns, weapons testing, and production of percussion caps. The Ordnance Department constructed several arsenals during the nineteenth century including Washington Arsenal, Washington, D.C. (operational between 1802 and 1861), Frankford Arsenal, Pennsylvania (established 1816), Watervliet Arsenal, New York (1813), Watertown Arsenal, Massachusetts (1816). and Rock Island Arsenal, Illinois (1862).

Nineteenth-century industrial buildings generally were characterized by two-story masonry buildings, most often brick or stone, with large window openings to allow light. Little exterior differentiation was needed for buildings housing different manufacturing processes, except for

some specialized processes such as the manufacture and storage of gunpowder. Nineteenth century industrial buildings were surprisingly generic no matter what was produced inside of them.

Perhaps the most talented arsenal designer in the Ordnance Department was T. J. Rodman who designed Watertown Arsenal and Rock Island Arsenal. Rodman organized the arsenal buildings to facilitate production lines for ordnance manufacturing. At Rock Island Arsenal, Rodman's plan consisted of ten shops symmetrically arranged: five shops for an armory to manufacture small arms, and five shops for an arsenal to support a general ordnance manufacturing complex.³ The shop buildings were constructed over a period of twenty years. The earliest buildings were load-bearing masonry. Rodman's design for the arsenal was unified through the use of monumental, classically-inspired design elements, such as templefronts, pilasters, cornices, and quoins, on the ten shop buildings, as well as the residential and administration buildings.

During the late nineteenth century, weapons production technology increased in complexity. In 1888, Watervliet Arsenal was designated as the Army's gun foundry for seacoast and field artillery. The gun factory used new technology in weapons manufacture to produce steel breechloading artillery; the new technology involved constructing guns in sections, rather than casting a single piece. New facilities were constructed to contain the new processes. Between 1888 and 1892, the Ordnance Department constructed a large two-story, brick seacoast gun factory. It was constructed in sections and organized with a center section flanked by two wings; it contained a shrinkage pit, boiler-house, engine-room, and lathes, bores and other machinery employed in the process of "built-up" gun construction. The building was ornamented with large segmentally-arched windows and a corbelled cornice.⁴

The Army constructed other industrial complexes during the early twentieth century. Picatinny, a storage depot in New Jersey, was converted into an arsenal to produce smokeless powder in 1907. Its original production buildings resembled typical, masonry nineteenth-century industrial buildings. They are symmetrical, rectangular, one- and two-story, gable-roofed, brick buildings with regular fenestration.

World War I was a turning point in the evolution of industrial architecture. After World War I, industrial buildings were constructed of steel frame or reinforced concrete and displayed extreme functionalism. The exterior ornamentation often found on nineteenth and early twentieth century industrial buildings was no longer a design element. The materials and design of post-World War I industrial buildings was determined by the production process inside the building. Concrete frame with concrete or clay tile infill was used for buildings with heavy machinery or that contained explosive materials, while steel frame construction often was used when large, open, high spaces were required.

³ Building Technology Incorporated, *Historic Properties Report: Rock Island Arsenal, Rock Island, Illinois*, MSS, Rock Island Arsenal, Rock Island, Illinois, 1985, 26-27.

⁴ *Ibid.*, 38-46.

After World War I, production technology at industrial complexes became more complicated. Edgewood Arsenal, Maryland, was constructed during World War I as the Army's first chemical weapons manufacturing plant. The deadly nature of the chemicals required specially designed production techniques that could not be adapted to existing building stock. The chemical weapons production facilities at Edgewood were housed in unadorned, one or one-and one-half story, structural clay tile buildings with industrial sash windows. Structural clay tile became a common construction material for industrial facilities due to its durability, availability, and low cost. Picatinny Arsenal was expanded after World War I. Like Edgewood, it featured specialized production buildings constructed of structural clay tile. These buildings were arranged in a logical sequence to facilitate the production lines.

Industrial Storage Facilities. Storage facilities were prominent and essential components of manufacturing complexes. Storage facilities housed raw materials needed for the production process, products in various stages of production, and the finished products before their shipment to final destinations. Industrial storage facilities generally were built specifically for the installation where they were located; standardization of industrial storage facilities was rare. At some installations, such as Rock Island Arsenal, the Ordnance Department designed and constructed storehouses as major buildings in the manufacturing complex; the similarity in design and materials made the nineteenth-century storehouses nearly identical in exterior appearance to the actual production facilities.

Special warehouses and storage facilities were developed at manufacturing facilities such as Picatinny and Edgewood Arsenal. Both installations were involved in highly technical and specific processes: at Picatinny Arsenal, the production of smokeless powder; at Edgewood Arsenal, chemical weapons. The volatility of the raw materials and final products mandated storage facilities that were of fireproof construction that would contain explosions.

Association:

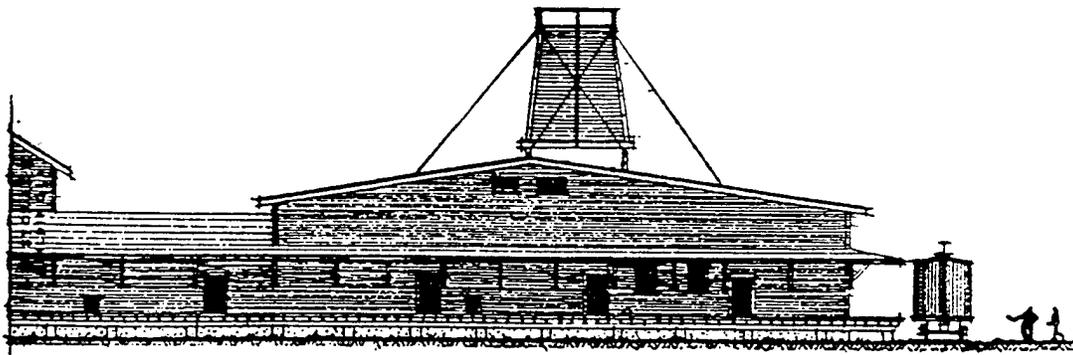
Military manufacturing complexes are associated with the technological and industrial development of the military and of civilian industry. Manufacturing complexes produced needed supplies and equipment to support various military missions. The kind of manufacturing processes and the types of buildings constructed at a specific site are related directly to the purpose of the facility and the time period of its operation. Military manufacturing complexes also are related to the broader historic context of industrial history.

Industrial complexes rarely were planned and constructed during a single time period. Most industrial facilities evolved over time and reflect subsequent technological improvements, both in production and construction technologies. Original buildings often have been modified, while at the same time new buildings have been added. An important factor in assessing the historic significance of properties associated with a military manufacturing complex is the degree to which the facility represents the manufacturing process, which often was housed in several buildings that formed an interrelated complex. In some cases, individual buildings may possess significance because of architectural merit, but industrial buildings often will contribute to an historic district because of their relationship to the entire complex.

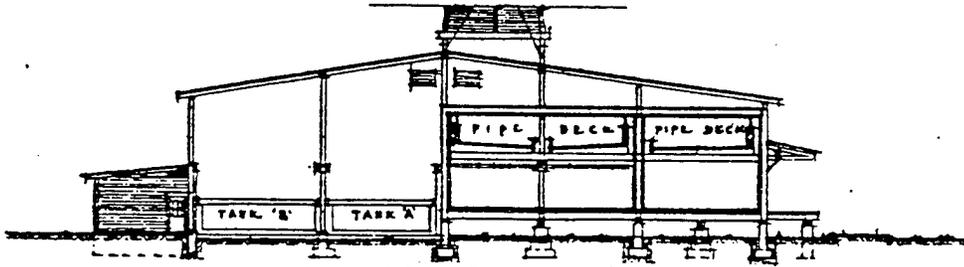
Integrity:

Most industrial buildings have been modified to keep them as vital elements in a production facility. In some cases, new technology is introduced into existing buildings, while in other cases, buildings are modified radically through additions or alterations. The nature of evolving technology required the constant modernization of production facilities. The first step in assessing integrity is to define the significance of the property. If the property is significant for a particular manufacturing process at a certain point in time, then the elements of that process, including buildings and structures and their relationship to one another in the process, should retain sufficient integrity to convey the nature of the industrial process as it appeared during the period of significance. If the property is important as a representative of an industrial process that evolved over time, then subsequent modifications to the property may have acquired their own significance and do not necessarily diminish the property's integrity. In cases where the property possesses architectural significance, then the integrity of the buildings' design, materials, and workmanship assumes primary importance over the industrial process housed in the buildings.

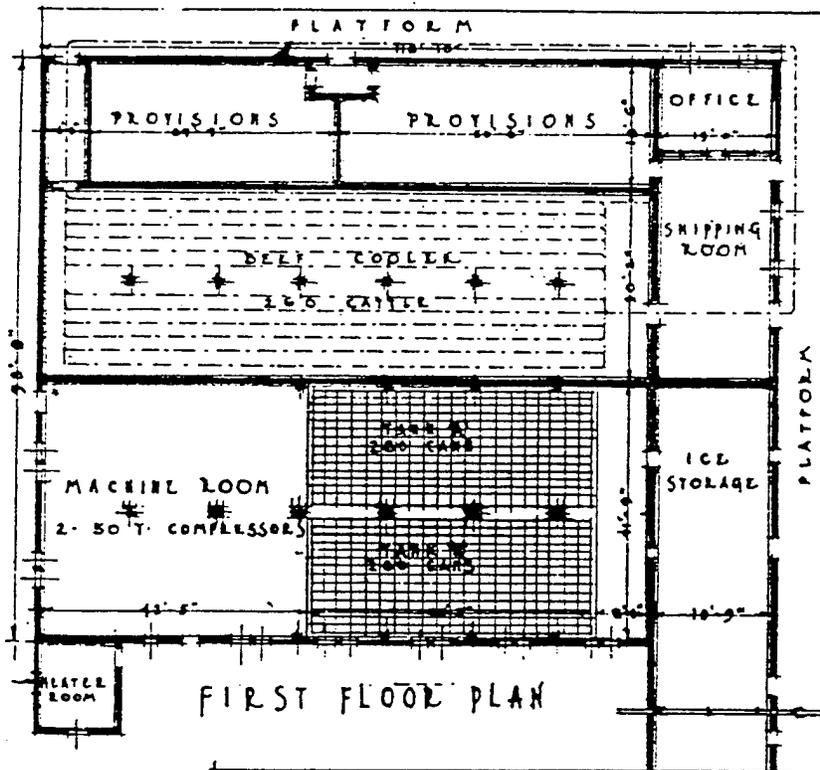
To possess integrity, industrial buildings should retain most of the elements of design, materials, workmanship, and location from their periods of significance. Where subsequent additions, or modifications have occurred, the property still may have integrity if it retains the majority of the features that illustrate its design and industrial process in terms of massing, spatial relationships, pattern of windows and doors, materials, and ornament.



END ELEVATION



CROSS SECTION



FIRST FLOOR PLAN

ICE STORAGE BLDG.
 SHEET # 673-1193
 SHEETS 673-1194-1195

0 5 10 20 30
 Scale in feet.

CONSTRUCTION DIVISION OF THE ARMY
 REFRIGERATING & ICE MAKING PLANT
 TYPE "M" SB-28

Category: INDUSTRIAL

Type 5 c-1: Service Facilities: Bakeries

Description:

The bakery was the central facility for large-scale bread production for installation personnel. It generally was a one-story, masonry building with large chimneys or vents for baking ovens. The size of installation bakeries depended on the size of the installations they served. In some cases, bakeries were combined with mess halls or other uses. Bakeries generally were utilitarian structures with little exterior ornament.

Evolution:

The construction of free-standing bakeries on Army posts during the late nineteenth century was the result of efforts to consolidate food preparation at Army installations. During most of the nineteenth century, mess, or eating facilities, were provided in the barracks. Bread baking was a daily task that required constant attention. The Army determined that a separate post bakery would free mess rooms for other uses and provide larger amounts of bread more cost effectively.

The Quartermaster Department first issued a standardized plan for a bakery in 1872. The plan depicts a one-story, rectangular building with ovens and a store room along one wall, and the remainder of the interior open. By the end of the nineteenth century, bakeries were standard components of Army posts and had increased in size to meet the needs of larger garrisons. Army regulations placed the bakery under the supervision of the post treasurer; the Quartermaster Department was charged with the responsibility of providing the building and equipment for the post bakery.⁵

Between 1891 and 1906, the Quartermaster Department designed the bakery to include more rooms, such as a bedroom for the cooks, proof room, boiler room, fuel room, and lavatory, as well as specialized rooms for mixing, rising, and baking bread. Ventilation was always a concern. In 1892, the Quartermaster Department issued a plan for a bakery with a monitor roof. By 1898, standardized plans depicted metal vents in the roof.⁶

The Army continued to construct separate bakeries throughout the 1930s. They were often located in the Quartermaster Department warehouse use and support area of the installation. By the 1930s, bakeries typically were constructed of masonry on concrete foundations, and were capped by shallow gable roofs with metal vents and parapet gable ends. Often the building reflected the prevailing architectural vocabulary, such as Georgian Colonial Revival, of the installation, though with simplified, scaled-back detailing.

⁵ War Department, General Staff, *Manual for the Quartermaster's Department*, United States Army, 1904, Washington, D.C.- Government Printing Office, 1904, 29.

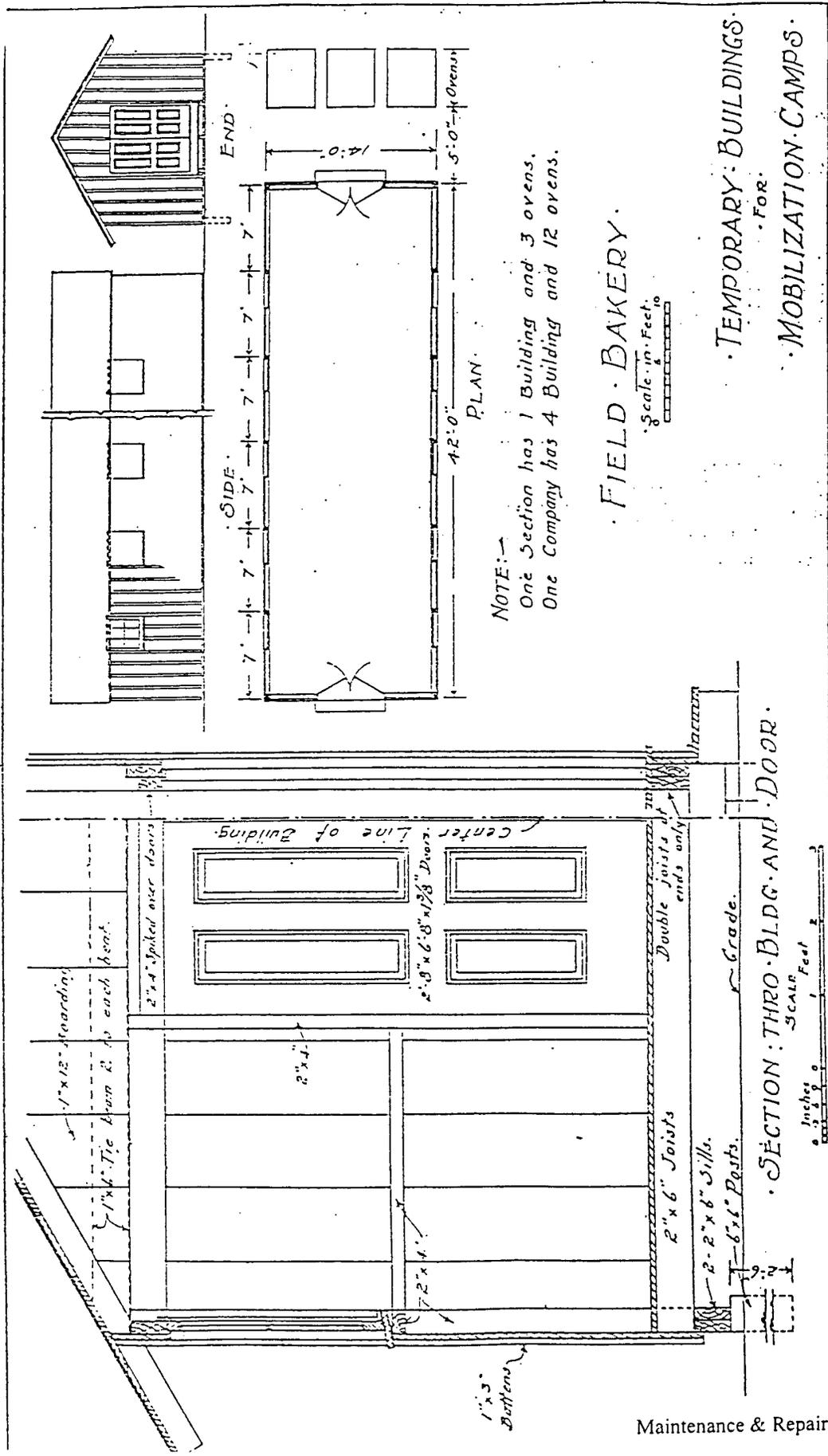
⁶ War Department, *Annual Report*, 1872, plate 1 0; NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, Plans 49A-R, 217, 218.

Association:

Bakeries are associated with the increasing diversity of functions on military installations during the late nineteenth and early twentieth centuries as they grew in size and in the number of services the military provided to installation personnel. Bakeries are secondary, support facilities of utilitarian design located in the storage and support area of installations. They may contribute to an historic district, but rarely possess sufficient significance to merit listing in the National Register as individual buildings.

Integrity:

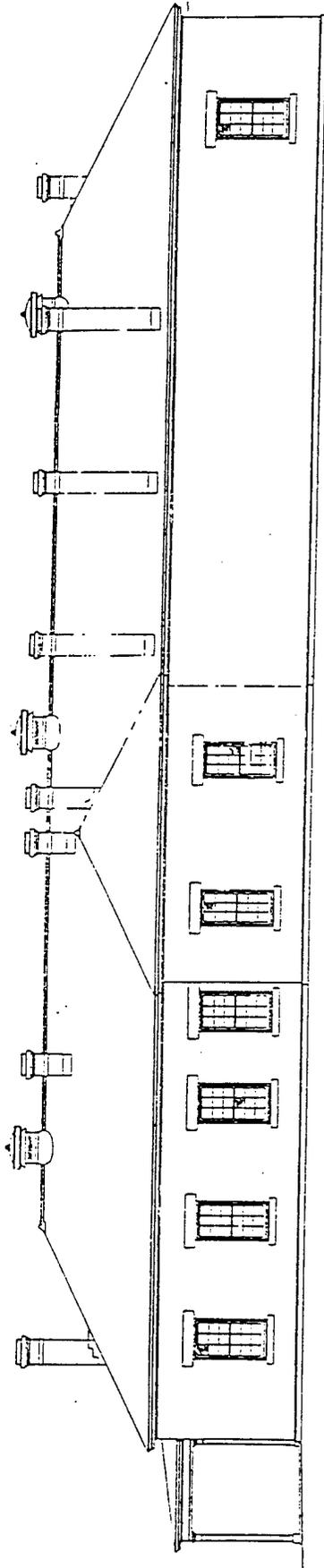
To possess integrity, bakeries should retain most of their design, materials, association, location, and workmanship to reflect the periods of significance of the historic district. In general, bakeries no longer function as such and have been modified heavily for new uses, usually maintenance buildings. Common modifications include alterations of original window and door openings. The building still may possess integrity if it retains the majority of its original features, including the overall shape of the building and roof, exterior materials, chimney, roof vents, and patterns of door and window openings.



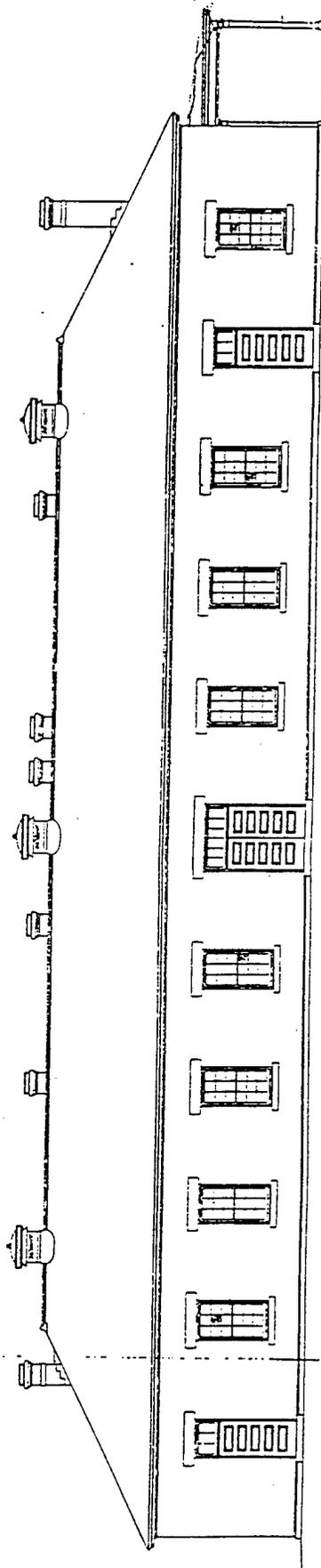
TEMPORARY BUILDINGS
FOR
MOBILIZATION CAMPS

APPENDIX No. 10-16.

16-16



REAR ELEVATION
SCALE 1/4" = 1'-0"



FRONT ELEVATION
SCALE 1/4" = 1'-0"



 SHEET NO. 158
BAKERY
 QMGO 25 MAY 1962

Category: INDUSTRIAL

Type 5 c-2: Service Facilities: Laundries

Description:

Laundries were utilitarian, one-story structures that served as the central laundry facility for an installation. Surviving examples of laundries are of masonry construction. Laundries generally were located in the support area of an installation.

Evolution:

At Army posts during the nineteenth century, laundresses washed the troops' laundry by hand. Laundry was washed in various places at different posts. Laundresses often would wash clothes outdoors at a nearby body of water. At some installations, such as Ft. Sill, Oklahoma, "wash houses" were located behind each barracks and behind the hospital near the laundress' quarters. Some early barracks included a wash room. Most frontier posts included quarters for laundresses at the edges of the post.

During the 1890s, separate quarters for laundresses began to disappear. The Quartermaster Department began to issue plans for officers' quarters that included a laundry and servant's quarters. During the early 1890s, barracks still were designed to include wash rooms, but, by 1894, wash rooms no longer appeared in barracks plans.⁷

The Quartermaster Department issued standardized plans for consolidated laundry facilities between 1908 and 1915. The plans depict a one-story building with a large boiler room. The building included the laundry, a sorting room, and an office. A variation on this plan was a two-story building with a one-story boiler room attached. In 1915, a standard laundry plan depicted a building two stories in height that contained a single tall interior space, with a one-story boiler room attached.⁸

Laundry facilities continued to grow in size to match the increasing size of installations. During the wave of new construction during the late 1920s and the 1930s, newly constructed laundries were large rectangular buildings with a gabled parapet roof. Dry cleaning facilities began to appear during the late 1930s and 1940s.

Association:

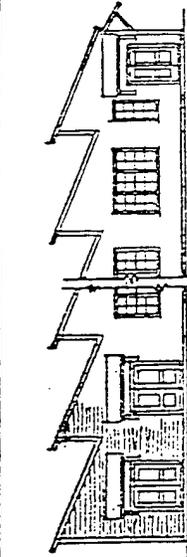
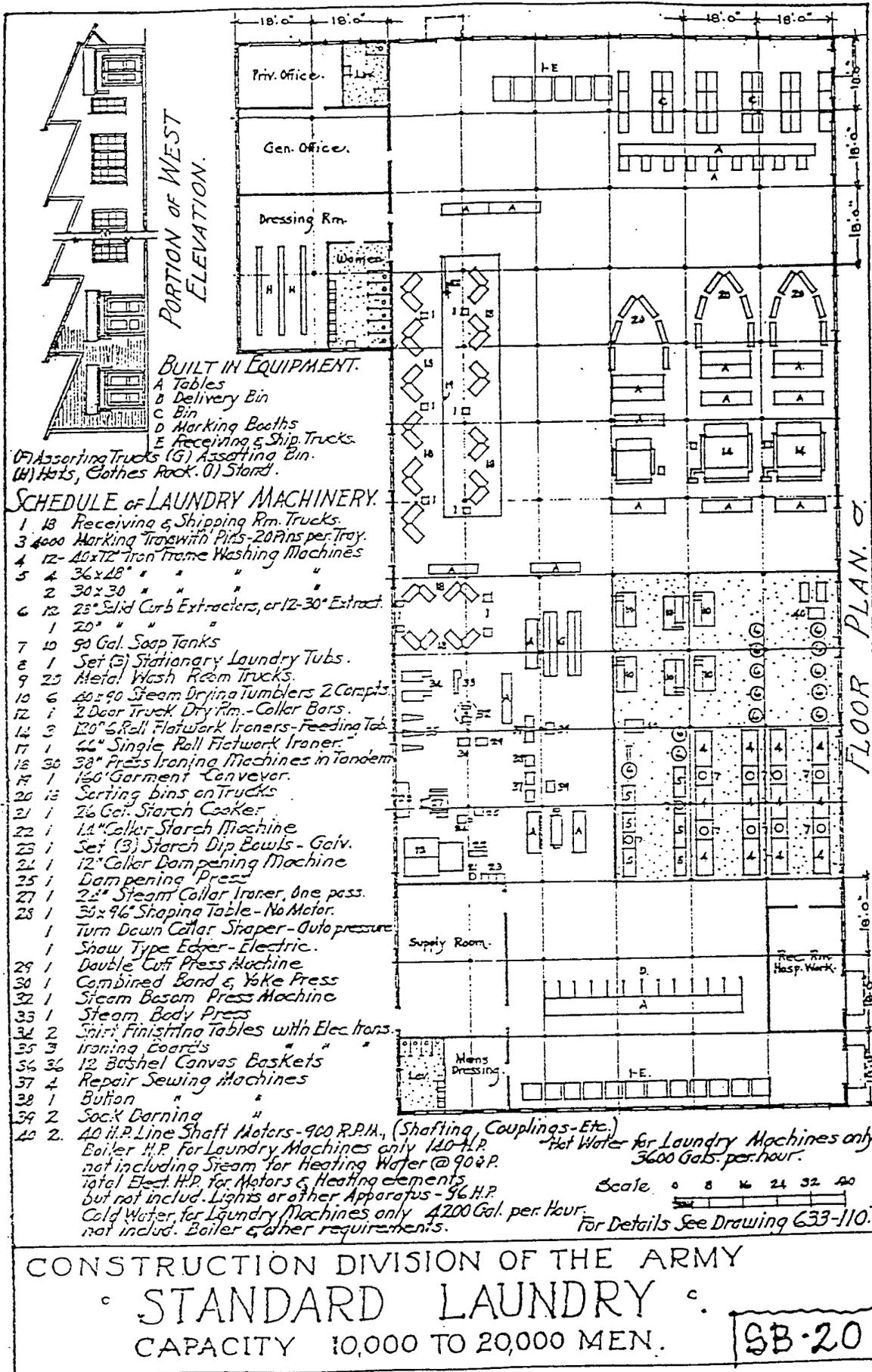
⁷ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Officers' Housing; David A. Clary, *A Life Which is Gregarious in the Extreme: A History of Furniture in Barracks, Hospitals, and Guardhouses of the United States Army, 1880-1945*, MSS, U.S. Department of the Interior, National Park Service, Harpers Ferry Center, Harpers Ferry, West Virginia, 1983, 134; David A. Clary, *These Relics of Barbarism: A History of Furniture in Barracks and Guardhouses of the United States Army, 1800-1880*, MSS, U.S. Department of the Interior, National Park Service, Harpers Ferry Center, Harpers Ferry, West Virginia, 1983, 115, 346.

⁸ NARA, Cartographic Branch, RG 77, Standard Plans of Army Posts, 1891 - 1918, Plan 234, 234A, 234-B, 402.

Laundries are associated with the increased complexity of military installations after the end of the nineteenth century and the growing number of services that were provided for installation personnel. Large centralized laundry facilities were constructed to house institutional-sized laundry equipment and replaced small wash houses and hand washing by non-military personnel. Laundries are one of many service buildings that were secondary support facilities at military installations. Laundries rarely possess historical significance as individual buildings; however, a laundry may be a contributing building in an historic district.

Integrity:

Laundries are utilitarian buildings, usually located in the support areas of an installation. To possess integrity, laundries should retain most of the elements of their design, materials, workmanship, setting, and location. Laundry buildings usually no longer function as laundries and have been modified extensively for new uses, often maintenance buildings or commissaries. Elements that generally have been modified include original window and door openings. Where subsequent additions or renovations have occurred, the building may have integrity if it retains the majority of its massing, shape, pattern of openings, materials, and ornament.



PORTION OF WEST ELEVATION.

BUILT IN EQUIPMENT.

- A Tables
- B Delivery Bin
- C Bin
- D Marking Booths
- E Receiving & Ship. Trucks

(F) Assorting Trucks (G) Assorting Bin.
(H) Hats, Clothes Rack. (I) Stair.

SCHEDULE OF LAUNDRY MACHINERY.

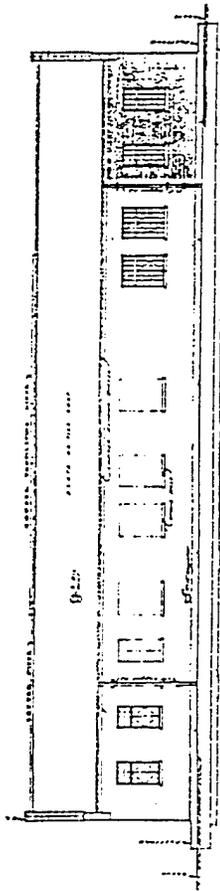
- 1 18 Receiving & Shipping Rm. Trucks.
- 3 4000 Marking Trays with Pins - 20 Pins per Tray.
- 4 12-46x72" Iron Frame Washing Machines
- 5 4 36x48" " " " "
- 2 30x30 " " " "
- 6 12 28" Solid Curb Extractors, or 12-30" Extract.
- 1 20" " " " "
- 7 10 90 Gal. Soap Tanks
- 8 1 Set (3) Stationary Laundry Tub.
- 9 25 Metal Wash Room Trucks.
- 10 6 60x90 Steam Drying Tumblers 2 Compts.
- 12 1 2 Door Truck Dry Rm. - Collar Bars.
- 14 3 120" Roll Flatwork Ironers - Feeding Tab.
- 17 1 66" Single Roll Flatwork Ironer.
- 18 30 38" Press Ironing Machines in Tandem
- 19 1 150' Garment Conveyor.
- 20 12 Sorting bins on Trucks
- 21 1 26 Gal. Starch Cooker
- 22 1 14" Collar Starch Machine
- 23 1 Set (3) Starch Dip Bowls - Galv.
- 24 1 12" Collar Dampening Machine
- 25 1 Dampening Press
- 27 1 24" Steam Collar Ironer, One pass.
- 28 1 36x96" Shaping Table - No Motor.
- 1 Turn Down Collar Stripper - Auto pressure.
- 1 Snow Type Edger - Electric.
- 29 1 Double Cuff Press Machine
- 30 1 Combined Band & Yoke Press
- 32 1 Steam Basom Press Machine
- 33 1 Steam Body Press
- 34 2 Spirit Finishing Tables with Elec. Irons.
- 35 3 Ironing Boards
- 36 36 12 Bushel Canvas Baskets
- 37 4 Repair Sewing Machines
- 38 1 Button
- 39 2 Sock Darning
- 40 2 40 H.P. Line Shaft Motors - 900 R.P.M., (Shafting, Couplings - Etc.)

Boiler H.P. for Laundry Machines only 120 H.P.
not including Steam for Heating Water @ 90 H.P.
Total Elect. H.P. for Motors & Heating elements
but not includ. Lights or other Apparatus - 56 H.P.
Cold Water for Laundry Machines only 4200 Gal. per Hour.
not includ. Boiler & other requirements.

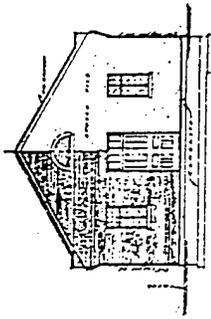
Hot Water for Laundry Machines only
3600 Gals. per hour.

Scale 0 8 16 24 32 40
For Details See Drawing 633-110.

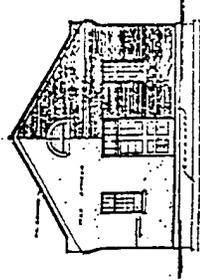
CONSTRUCTION DIVISION OF THE ARMY
STANDARD LAUNDRY
CAPACITY 10,000 TO 20,000 MEN. SB-20



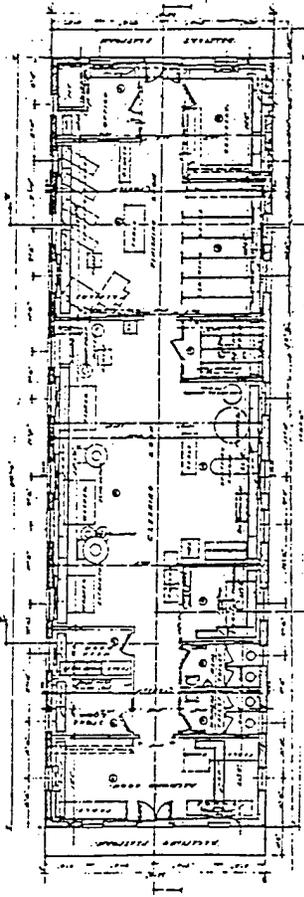
FRONT ELEVATION.



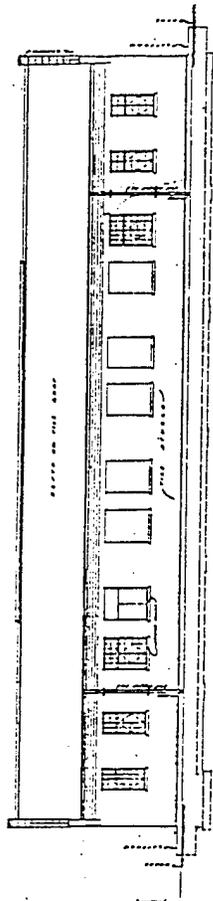
LEFT ELEVATION.



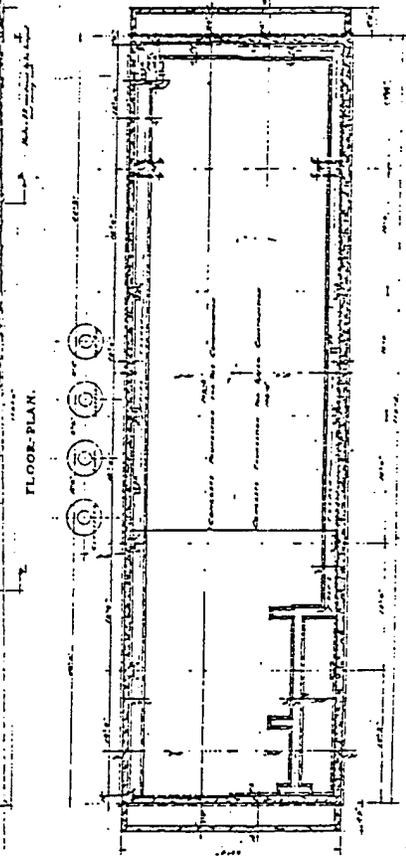
RIGHT ELEVATION.



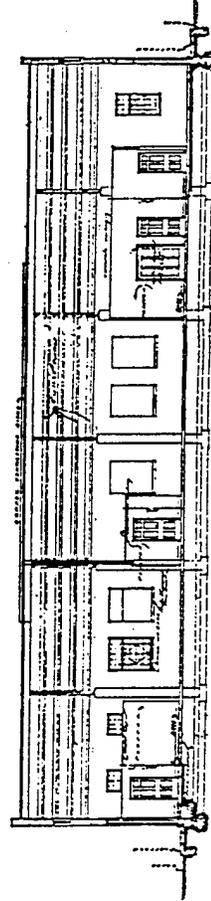
FLOOR PLAN.



REAR ELEVATION.

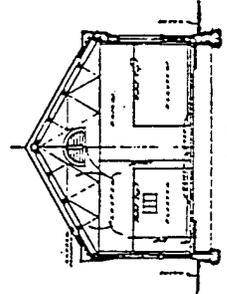


BASMENT PLAN.



SECTION OF LINE 'A-A'.

- LEGEND
- Checkered ---
 - Brick ---
 - Concrete ---
 - Plaster ---
 - Lumber ---
 - Masonry ---
 - Glass ---
 - Metal ---
 - Steel ---
 - Iron ---
 - Wood ---
 - Paint ---
 - Paper ---
 - Carpet ---
 - Tile ---
 - Marble ---
 - Granite ---
 - Slate ---
 - Asphalt ---
 - Concrete ---
 - Lumber ---
 - Masonry ---
 - Glass ---
 - Metal ---
 - Iron ---
 - Wood ---
 - Paint ---
 - Paper ---
 - Carpet ---
 - Tile ---
 - Marble ---
 - Granite ---
 - Slate ---
 - Asphalt ---



SECTION OF LINE 'B-B'.

SCALE: 3/8" = 1'-0"

CONSTRUCTION SERVICE
OFFICE OF THE CITY ENGINEER GENERAL

FOUNTAIN, OKLA

TYPICAL DRY CLEANING PLANT

NO. 11-14, CIT

633-165

Category: INDUSTRIAL

Type 5 d-1: Storage: General Storage

Description:

Storage facilities were constructed to store needed supplies. The military distributed supplies from central depots to individual installations. This resulted in two large groups of storage facilities complexes of storage buildings at supply depots that served regions, and warehouses to store the supplies needed at specific installations. Typical supplies included subsistence, clothing, raw materials, equipment, and other general supplies. Storage facilities were generally utilitarian buildings constructed of a variety of materials, including wood, stone, brick, structural clay tile, or corrugated metal. Storage buildings usually were one- or two-story, long rectangular buildings with pitched roofs, regular openings, and little ornament. In cases where installations were planned and constructed at one time, the military generally constructed storage facilities that reflected the overall architectural character of the installation. Ordnance storage is discussed in the next section; storage associated with manufacturing complexes is discussed in a previous section.

Evolution:

Installation storage. During the nineteenth century, the Subsistence Department and the Quartermaster Department were the two primary users of storage facilities. The Subsistence Department provided basic food rations; the Quartermaster Department issued clothing and equipment to men and provided fodder for animals. The Quartermaster Department proposed standardized plans for a general storehouse in 1860 and for a commissary store house in 1872. Both proposed plans showed one-story buildings with large open interior spaces.⁹ Little differentiation between the two buildings is apparent, suggesting that the same building easily could be used by either department. Storehouses or warehouses were located in an area separate from the main cantonment. The typical warehouse was a one- or two-story rectangular building with a pitched roof and regular openings, often with bars over the windows for security.

In 1866, Congress authorized the Army to sell food from the government stocks to officers, enlisted men, and their dependents. Although the Army initially limited sales to those items already purchased for issue to soldiers, eventually soldiers and their families were allowed to special order other items. Later, the post commissary warehouse began to stock items specifically for retail trade. The Quartermaster Department designed a commissary warehouse plan with a separate retail counter. This sales counter was the birth of the modern day commissary. The commissary warehouses were similar to other warehouses in the post warehouse area.¹⁰

⁹ War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*, Washington, D.C. George W. Bowman, 1861; War Department, *Annual Reports of the Quartermaster-General*, Washington, D.C. Government Printing Office, 1872.

¹⁰ Michael E. Hucles, *From Haversack to Checkout Counter. A Brief History of the Army Commissary System*, Fort Lee, Virginia: U.S. Army Troop Support Agency, 1991, 54.

During the nineteenth century, usually one or two storehouses fulfilled the needs of individual Army posts. As the Army consolidated its troops into larger, more permanent installations during the 1880s and 1890s, support facilities also were expanded. The Army continued to place the utilitarian functions of the Quartermaster and Subsistence Departments in a separate area from the main parade ground and cantonment. The utilitarian functions needed to operate the post formed a complex of storage, transportation support, and repair and maintenance facilities. For example, wagon trains originally transported supplies to Army posts. The Quartermaster Department's complex contained housing for teamsters, fodder for draft animals, and a blacksmith shop. During the last quarter of the nineteenth century, the railroad supplanted the wagon train as the primary means of transportation and the Quartermaster complex was linked directly to railroad lines.

In 1892, the Quartermaster Department issued standardized plans for a combined Quartermaster and Commissary storehouse. When the Quartermaster and Subsistence Departments shared a warehouse, the interior was divided down the middle; each end of the building had its own set of offices and issue counters. Generally, the building had a loading platform along one long side of the building. This basic Quartermaster warehouse design remained the same from 1892 until the end of the 1930s. The only major change was that the building grew from one-and-a-half stories to two stories with attic.¹¹

During the twentieth century, there was a dramatic increase in the number of storage facilities required to store the supplies of a modern army. During World War I, the Army established larger warehouse districts at its training camps. Warehouse districts comprised rows of one-story, temporary wooden storehouses located along railroad sidings. After the war ended, the increasingly mechanized Army continued to require more storage facilities to store unused materiel returned from the war front. For example, eleven flat-roofed storage buildings were constructed at Rock Island Arsenal, Illinois, between 1919 and 1921, for storage of artillery vehicles and equipment. To meet the post-war storage needs, the Army sheathed some World War I temporary frame warehouses structural with clay tile or brick.

During the 1930s, some individual Army installations continued to require large warehouse districts, particularly posts with large numbers of soldiers, such as Forts Knob, Benign, Bliss, and Sill. Warehouse districts comprised rows of utilitarian, one-story buildings separated by projecting brick fire walls.

Storage facilities constructed at Army Air Corps installations sometimes did not follow the same design and site patterns as the Quartermaster Department warehouses on other Army posts. Army Air Corps storage facilities were similar in design to the hangars and the maintenance and repair shops built at the same time at airfields. Airfield storage facilities were located near the flight line with the maintenance and repair shops and airplane hangars, rather than in a separate warehouse district. The typical storage buildings were one-story, rectangular, masonry buildings

¹¹ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, Plans, 43, 63, 78, 86, 106, 278.

with gable roofs and industrial sash windows. They generally shared the same architectural character and motifs as the surrounding buildings of the flight line area.

When special storage facilities were required at a post, the Quartermaster Department often issued separate plans, designed according to the type and size of materiel requiring storage and the department requesting storage facilities. After the Army first issued oil lamps to troops, the Quartermaster Department built oil houses to store oil. During the first decade of the twentieth century, the Quartermaster Department issued separate plans for buildings to store special engineering, signal, and photographic equipment and supplies. These specialized storage facilities are less common building types not found on every installation.

Depots. In addition to the general storage facilities that were a standard component of every Army post no matter its purpose, the Army operated supply depots to serve as regional storage and distribution centers. After the Civil War, the Quartermaster Department adopted a system of depots to facilitate supplying Army installations. The Quartermaster Department controlled general depots, while department or division commanders controlled regional depots. The spread of railroad lines made the delivery of supplies easier and a central location for assembling supplies more advantageous. By 1869, the Quartermaster Department had four general depots, at New York, Philadelphia, Washington, and Jeffersonville, Indiana.¹²

In 1878, the Quartermaster Department established the San Antonio Depot, now part of Ft. Sam Houston, Texas, as a regional storage facility for the Department of Texas. Supplies were distributed from the depot by rail to other forts in the Southwest. Quartermaster General Montgomery C. Meigs designed the San Antonio depot as a quadrangle with stone storehouses facing an interior courtyard. A tall stone water tower marked the center of the quadrangle.

During the twentieth century, regional storage depots proliferated as the Army developed more complex logistical systems to serve larger number of troops and increased amounts of equipment. This trend was particularly important during World Wars I and II when specialized storage depots were established for specific materials. During World War II, Edgewood Arsenal became the Eastern Chemical Depot, the first and only chemical storage facility on the East Coast. Edgewood required an extensive number of warehouses and storage igloos. Other large storage facilities were constructed at ports of embarkation, such as Ft. Mason in San Francisco, where massive architect-designed warehouses were constructed during World War II.

The Army also developed a system of aviation depots to serve as central distribution points for supplies to individual airfields. One example was the Fairfield Aviation Depot, Ohio, now part of Wright-Patterson AFB. The depot began operation in 1917 and provided logistics support to the four Signal Corps Aviation Schools operating in the Midwest. Other aviation depots included the Engine and Repair Depot, now Maxwell AFB, Alabama, and Sacramento Depot, now McClellan AFB, California. The aviation depots were characterized by rows of utilitarian warehouses.

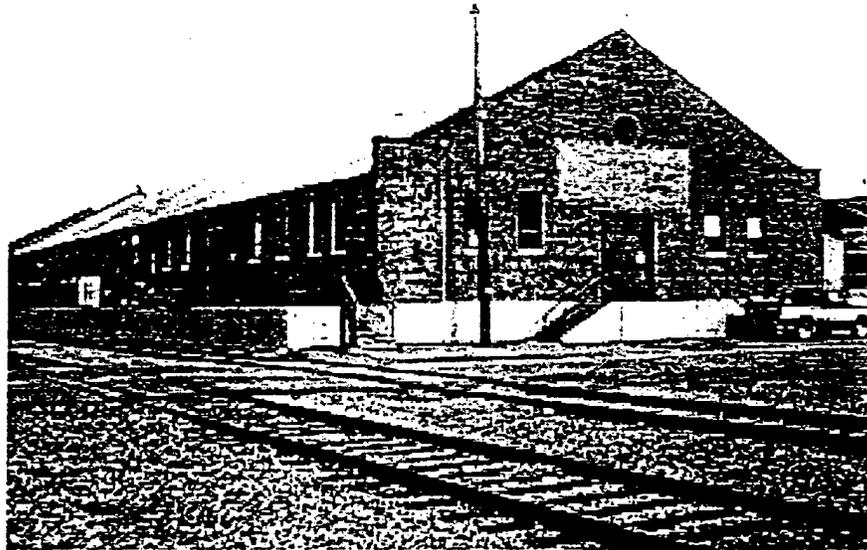
¹² Erna Risch, *Quartermaster Support of the Army 1775-1939*, Washington, D.C. Government Printing Office, 1962. Reprint 1989, 457.

Association:

Storage buildings are support facilities required to sustain the operations of a military installation. The size, extent, and purposes of storage facilities illustrate the evolution of military logistics, supply, and technology. The construction of the buildings, including architectural ornamentation and siting, reflect the period of construction. These buildings can be minor utilitarian buildings or major architectural elements on an installation. Storage facilities, in general, do not possess individual historic significance, but may be contributing elements to an historic district. They can be secondary facilities that supported the installation's primary mission, whether it was a frontier fort or an airfield, or storage facilities can compose the bulk of the installation. Within various types of installations, the storage facilities may be interspersed with other types of buildings or may form a distinct warehouse district.

Integrity:

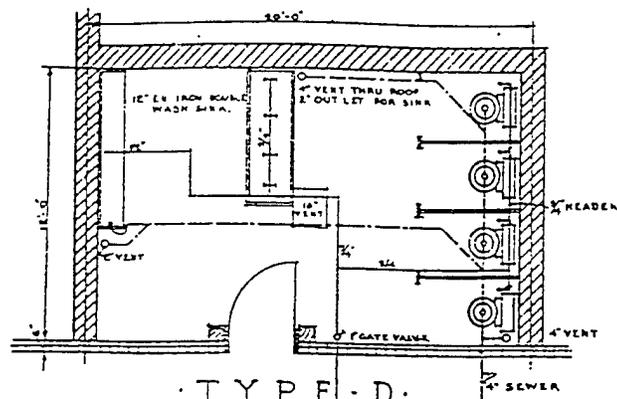
To possess integrity, storage facilities should retain most of the design, location, setting, materials, and workmanship from the period of significance of the historic district. Character-defining features of this building type include the building form, original materials, pattern of openings, and relationship with a complex of other storage facilities. An isolated storage building that once was part of a complex is not as good a representative of the building type as an intact complex. Storage facilities often have been modified or altered for other uses. Where a building has undergone subsequent additions or renovations, the building still may have integrity if it retains the majority of its setting, massing, proportion, pattern of windows and doors, materials, and ornamentation.



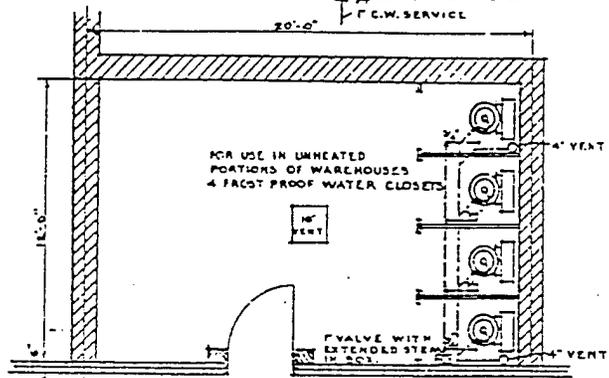
1938 Quartermaster Warehouse at McChord AFB, WA



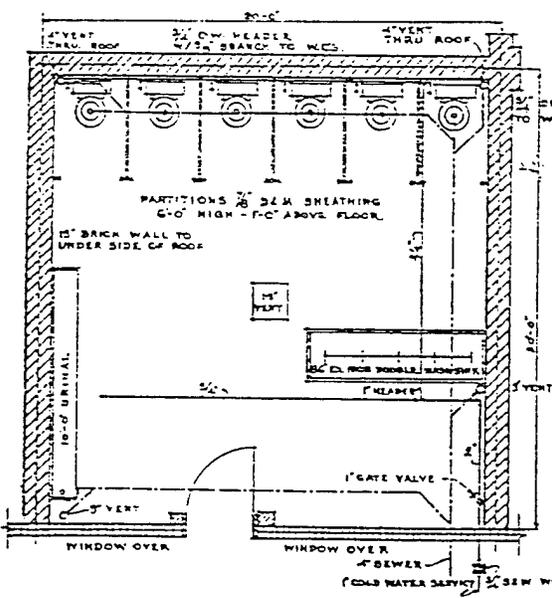
1905-6 Quartermaster Storehouse at Vancouver Barracks, WA



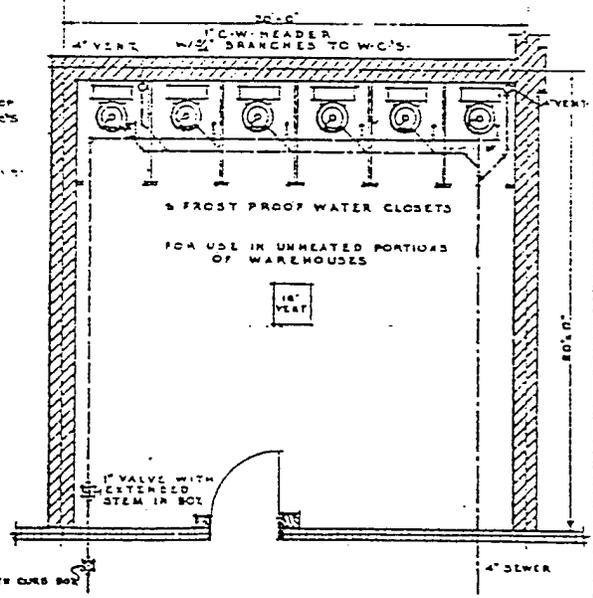
TYPE D



TYPE F



TYPE C

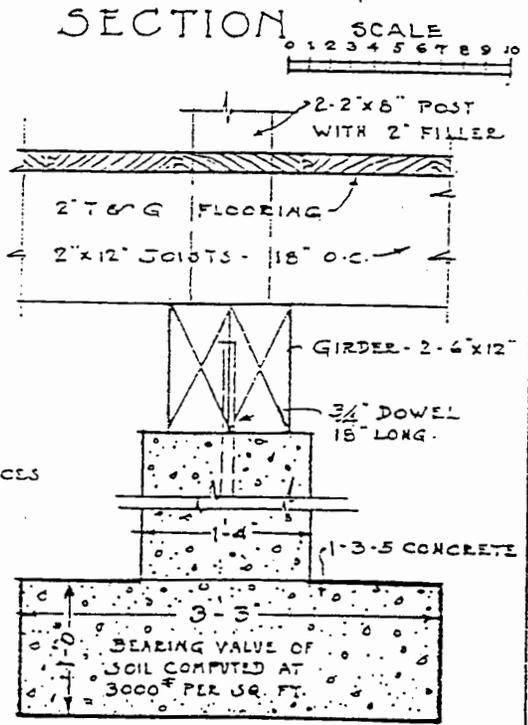
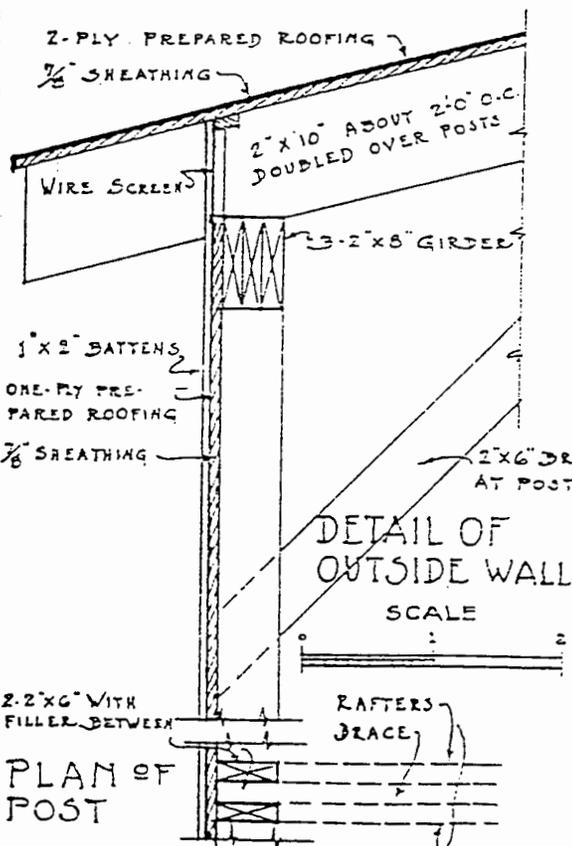
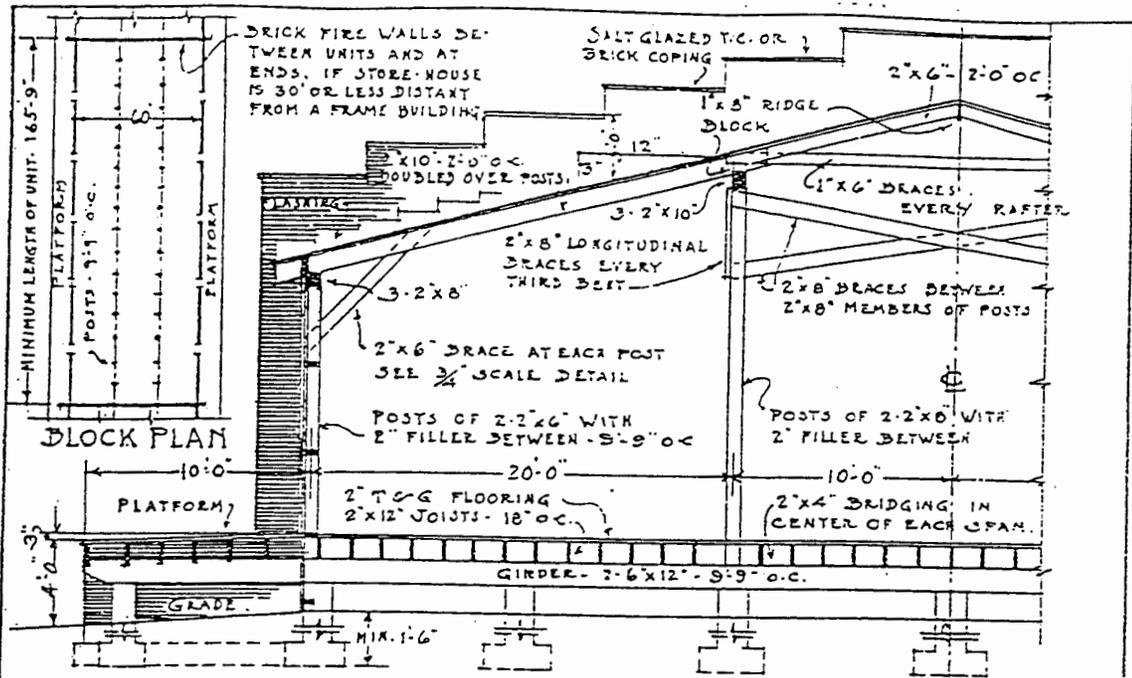


TYPE E

SCALE
 0 1 2 3 4 5 6 7 8 9 10 FT.

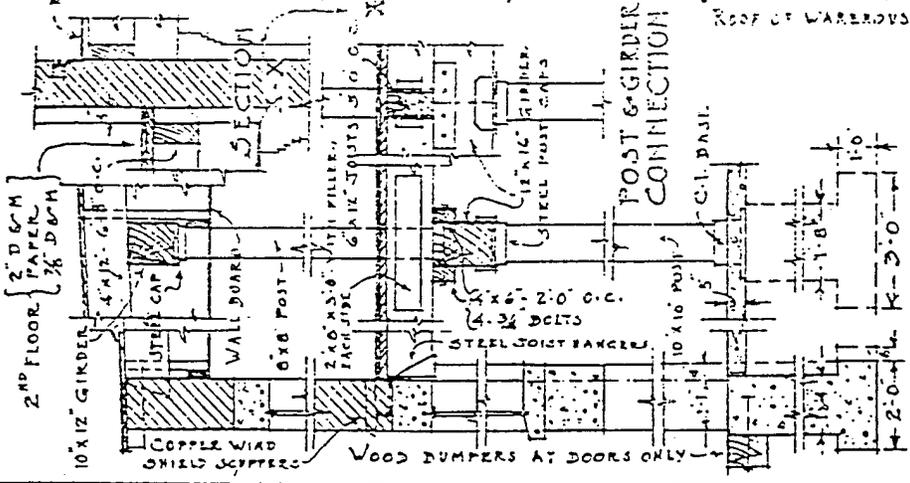
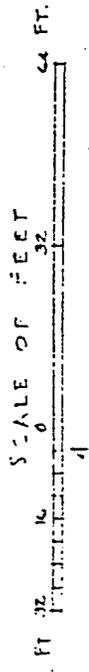
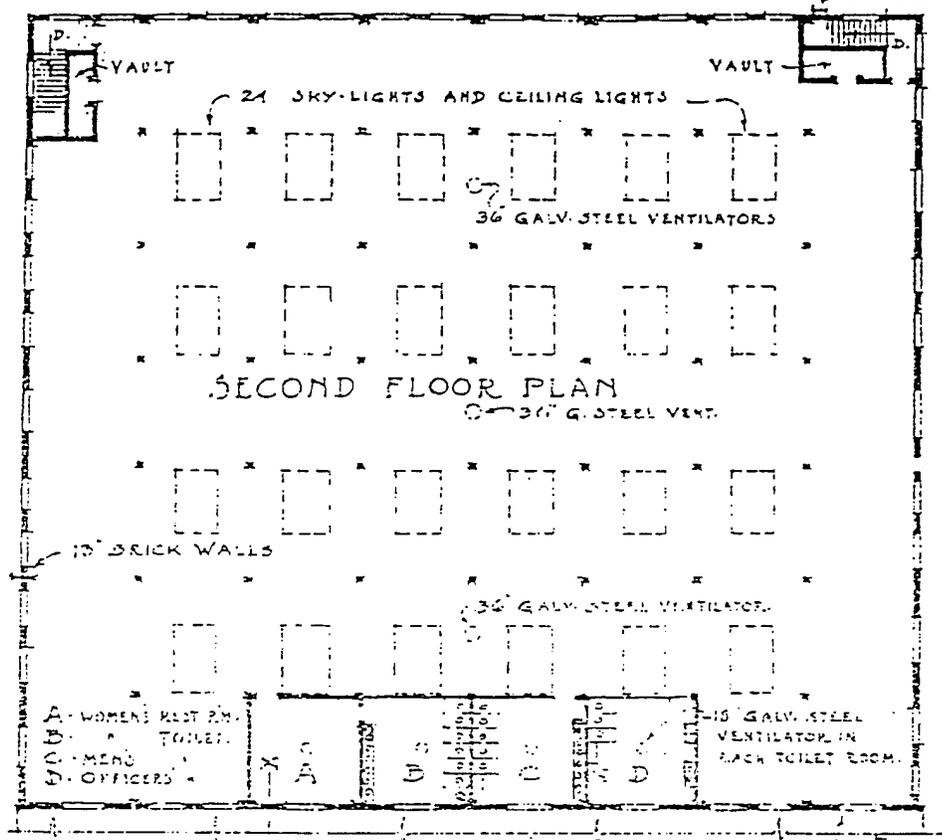
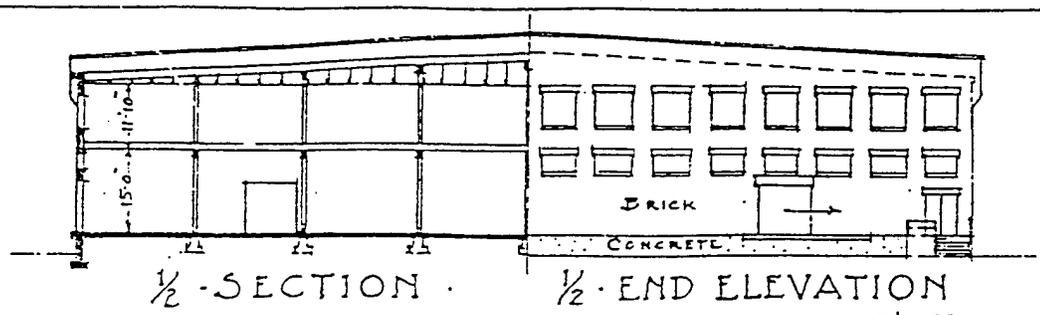
FOR DETAILS SEE DRAWING 672-42

CONSTRUCTION DIVISION OF THE ARMY
 TYPICAL EMERGENCY STORAGE WAREHOUSE
 STANDARD TOILET ROOMS SB-10



FOR DETAILS SEE DRAWING G20-319

CONSTRUCTION DIVISION OF THE ARMY SB-16
 TYPICAL BUILDINGS
 DIVISIONAL STORE HOUSE - NON-INSULATED

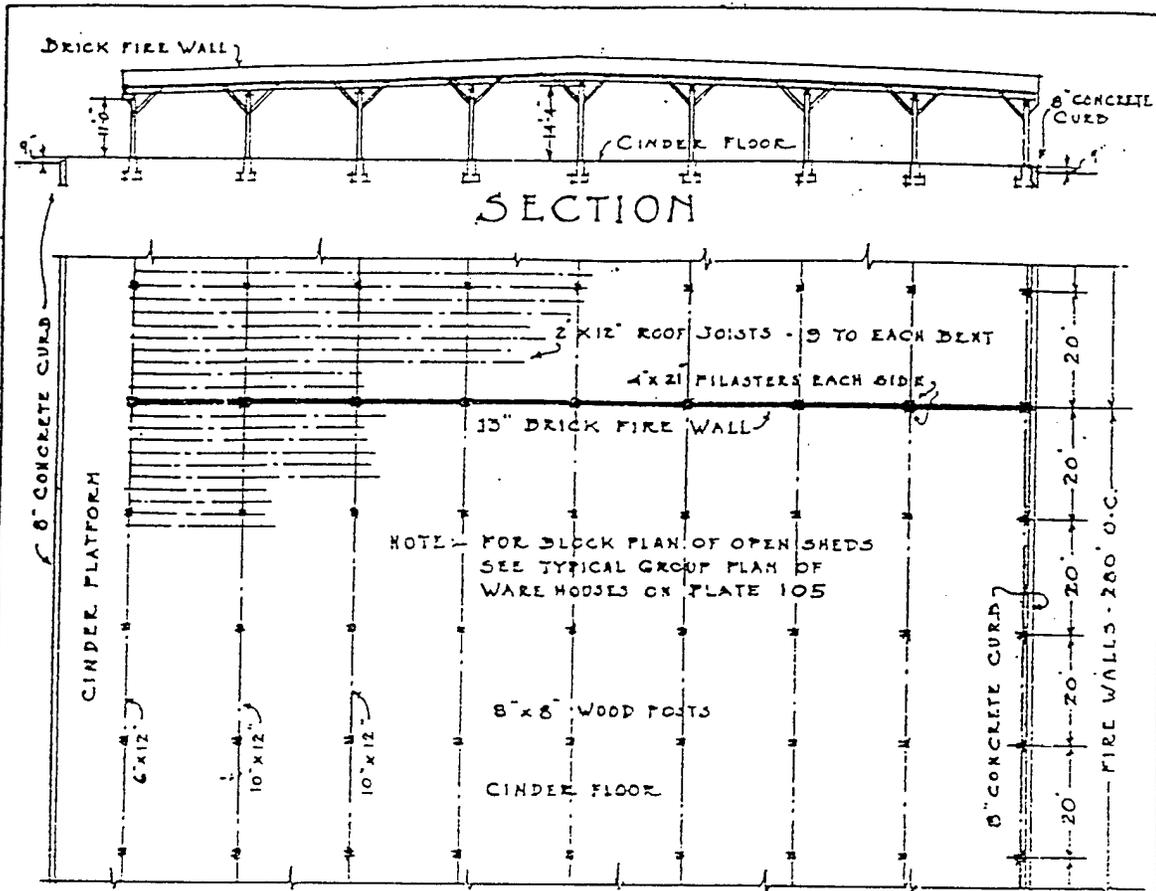


CONSTRUCTION DETAILS
SCALE - FEET

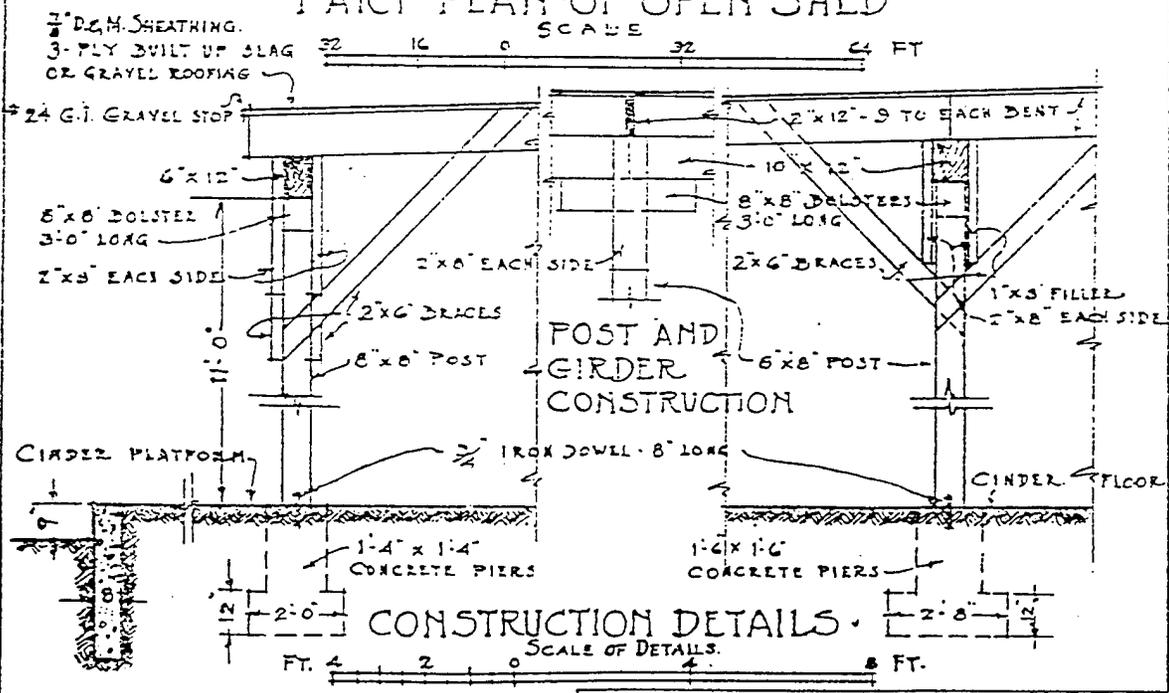
NOTE - FIRST FLOOR PLAN IS SIMILAR TO THAT OF ONE-STORY WAREHOUSES - EXCEPT STAIRWAYS AND BRICK INSTEAD OF TILE WALLS.

FOR DETAILS SEE DRAWING NO. 6271-7.

CONSTRUCTION DIVISION OF THE ARMY. **SB-26**
 TYPICAL EMERGENCY STORAGE WAREHOUSE
 ADMINISTRATION BUILDING.

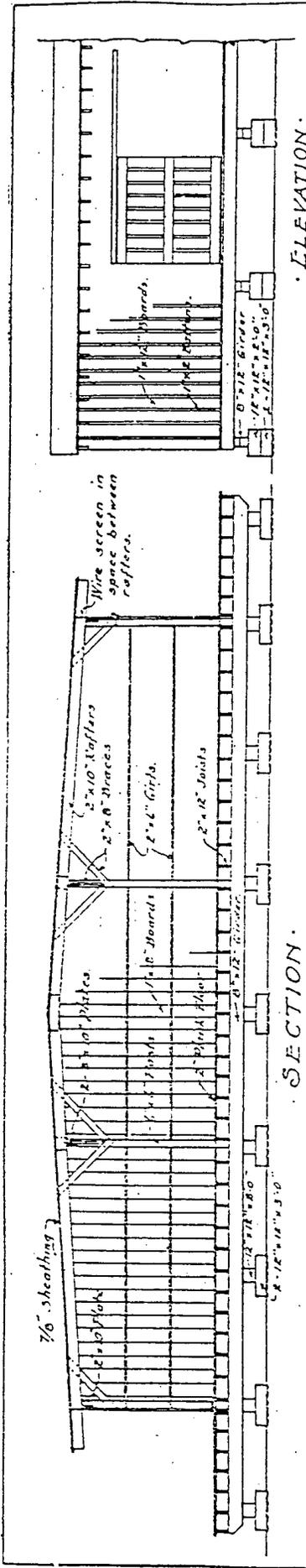


PART PLAN OF OPEN SHED



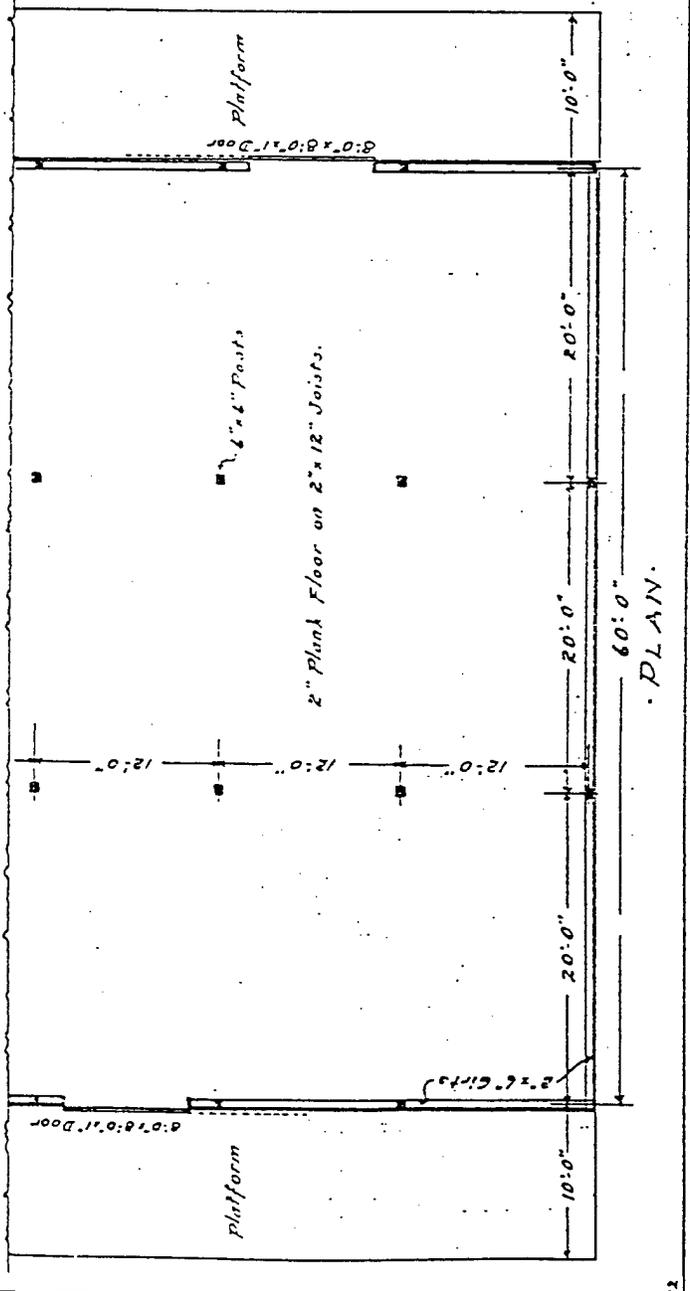
FOR DETAILS SEE DRAWING 6271-12.

CONSTRUCTION DIVISION OF THE ARMY **SB-27**
 TYPICAL EMERGENCY STORAGE WAREHOUSE
 PLAN, SECTION & DETAILS OF OPEN SHED



SECTION

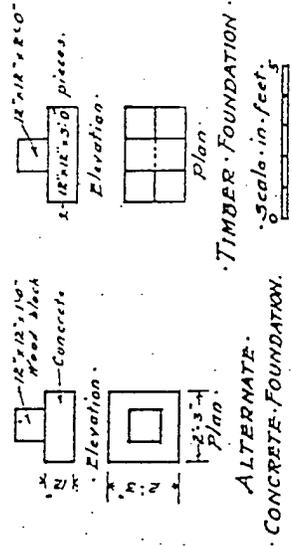
ELEVATION



PLAN

STORE HOUSE

Scale in Feet
0 5 10

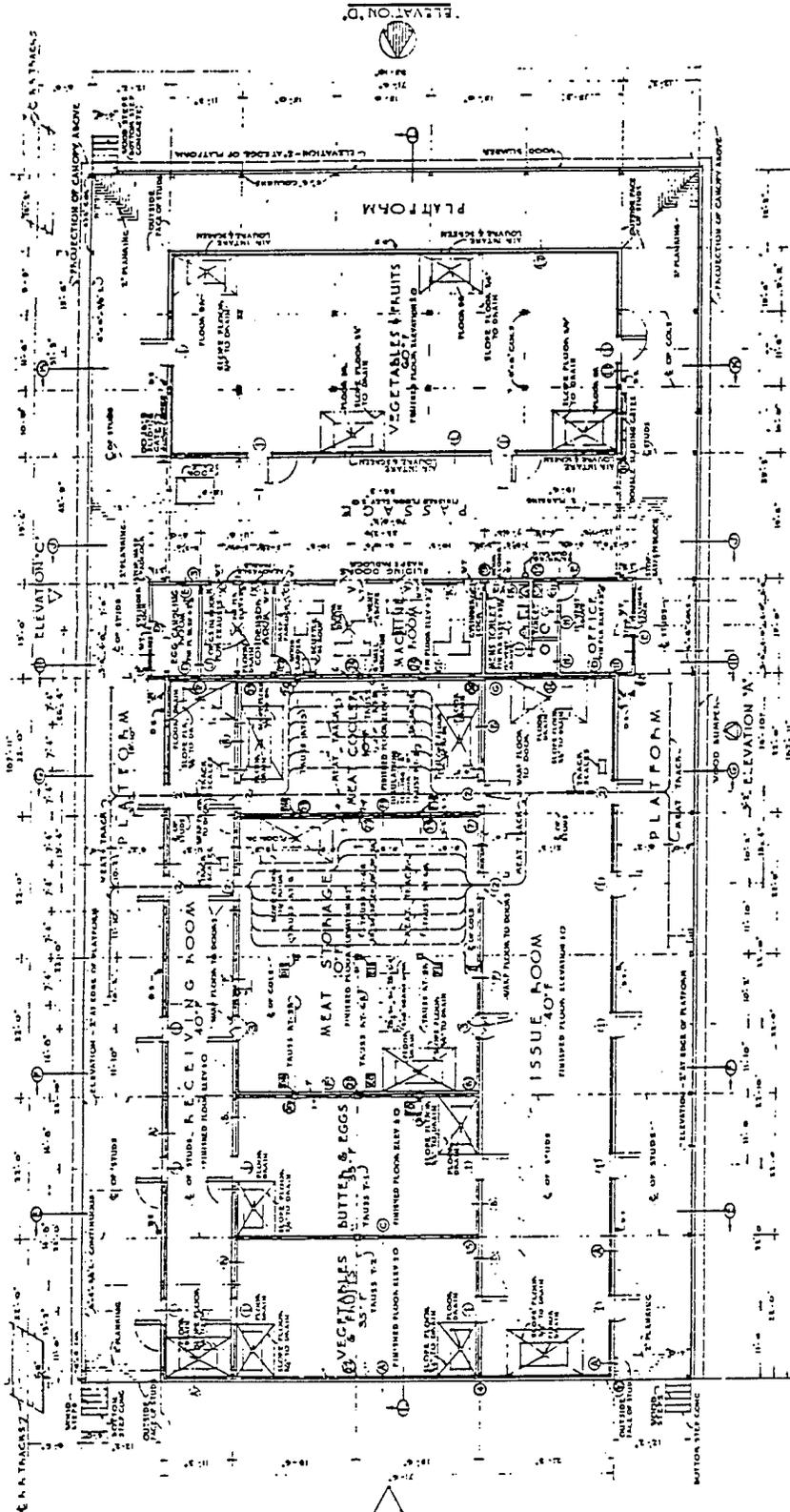


ALTERNATE
CONCRETE FOUNDATION

TIMBER FOUNDATION

Scale in feet

TEMPORARY BUILDINGS
FOR
MOBILIZATION CAMPS



REVISED FLOOR PLAN
SCALE 1/8" = 1'-0"

INDEX

| NO. | DESCRIPTION | REMARKS |
|-----|---------------------|-------------------|
| 1 | MEAT STORAGE | SEE SHEET CS-15-1 |
| 2 | BUTTER & EGGS | SEE SHEET CS-15-1 |
| 3 | VEGETABLES & FRUITS | SEE SHEET CS-15-1 |
| 4 | MACHINE ROOM | SEE SHEET CS-15-1 |
| 5 | ISSUE ROOM | SEE SHEET CS-15-1 |
| 6 | PLATFORM | SEE SHEET CS-15-1 |

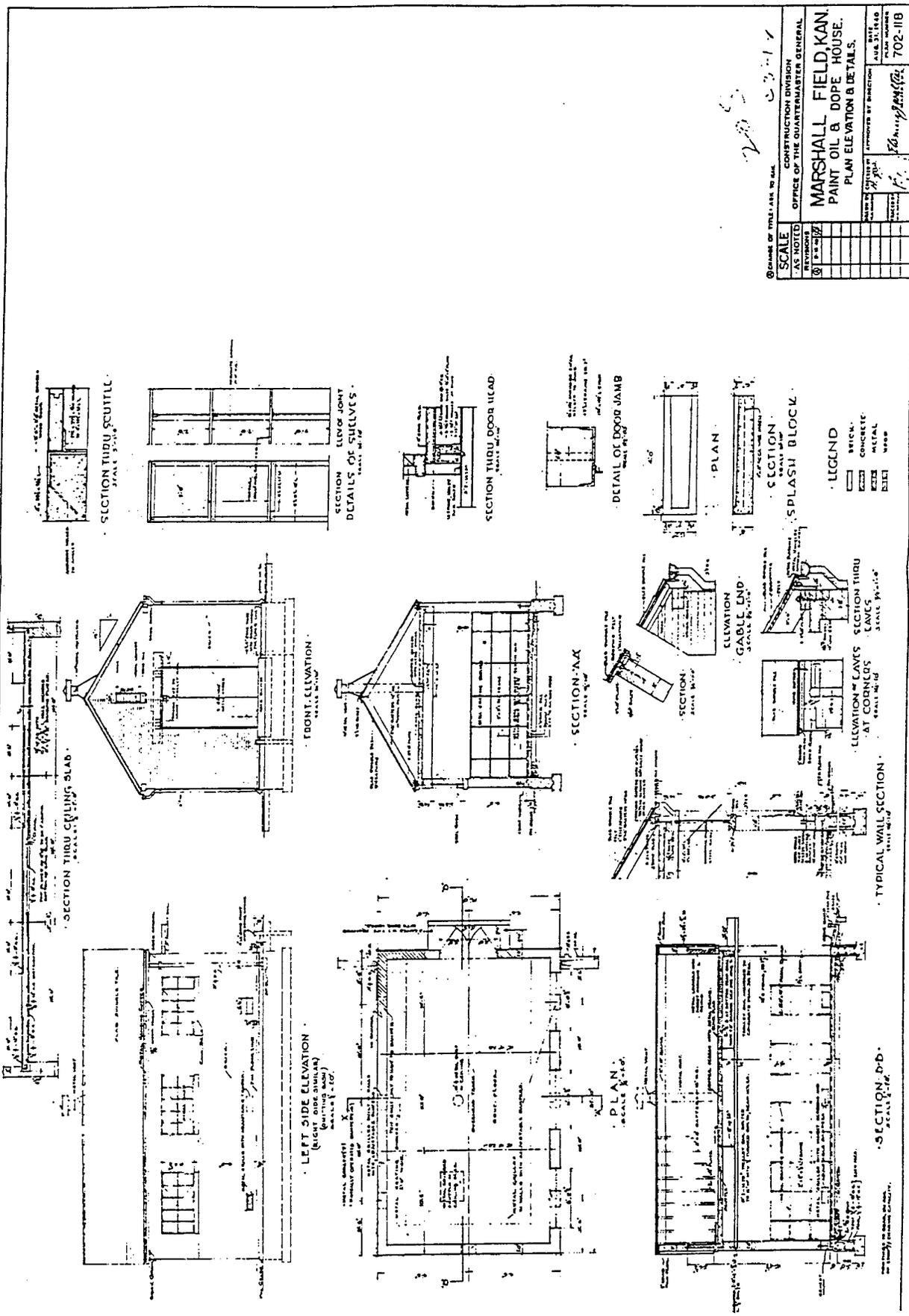
LIST OF DRAWING NUMBERS APPLYING TO THIS BUILDING

| REVISION NO. | TITLE | REMARKS |
|--------------|---------------------|-------------------|
| 1 | MEAT STORAGE | SEE SHEET CS-15-1 |
| 2 | BUTTER & EGGS | SEE SHEET CS-15-1 |
| 3 | VEGETABLES & FRUITS | SEE SHEET CS-15-1 |
| 4 | MACHINE ROOM | SEE SHEET CS-15-1 |
| 5 | ISSUE ROOM | SEE SHEET CS-15-1 |
| 6 | PLATFORM | SEE SHEET CS-15-1 |

NOTE: ALL MEET SERVICES AND SUPPLIERS ENTIRELY UNDER CONTRACT.

| NO. | DESCRIPTION | REMARKS |
|-----|---------------------|-------------------|
| 1 | MEAT STORAGE | SEE SHEET CS-15-1 |
| 2 | BUTTER & EGGS | SEE SHEET CS-15-1 |
| 3 | VEGETABLES & FRUITS | SEE SHEET CS-15-1 |
| 4 | MACHINE ROOM | SEE SHEET CS-15-1 |
| 5 | ISSUE ROOM | SEE SHEET CS-15-1 |
| 6 | PLATFORM | SEE SHEET CS-15-1 |

NO. 664, REAR 111 B' JORD DRAWING 4/27/54
NO. 650, 05, C11



© DRAWING BY FIELD, ABE & ASSOCIATES

| | |
|-----------------------|-------------------------------------|
| SCALE | CONSTRUCTION DIVISION |
| AS NOTED | OFFICE OF THE QUARTERMASTER GENERAL |
| DATE | MARSHALL FIELD, KAN. |
| | PAINT OIL & DOPE HOUSE. |
| | PLAN ELEVATION & DETAILS. |
| APPROVED BY ARCHITECT | APPROVED BY SECTION |
| DATE | DATE |
| | 702-11B |

LEGEND

| | |
|-------|----------|
| BRICK | CONCRETE |
| GLASS | METAL |
| WOOD | |

Category: INDUSTRIAL

Type 5 d-2: Storage: Ordnance

Description:

Ordnance storage facilities are a specialized form of storage facilities that generally are recognizable as a separate building type from general storage. They form a large part of the military's storage facilities. The military constructed ordnance storage buildings to contain weapons, ammunition, and related equipment. In general, the military distributed ordnance from central depots to individual installations. This resulted in two types of ordnance storage facilities: concentrations of storage buildings at the central depots and a few isolated buildings at most installations to store the ordnance needed at that installation. Ordnance storage facilities generally were one-story, utilitarian buildings with thick masonry walls. In some cases, ordnance storage facilities did incorporate architectural motifs if designed as part of an installation master plan.

Evolution:

Installation storage. The Army constructed ordnance storage facilities on Army posts throughout the time period examined during this study, 1790 and 1940. During the nineteenth century, powder magazines generally were isolated, small, windowless, one-story, masonry buildings. The typical garrison post was stocked with only one or two powder magazines. When the Army began to consolidate its troops on larger, permanent posts during the 1880s and 1890s, the Quartermaster Department issued standardized plans for ammunition storehouses that depicted one-story, masonry buildings with dormers, windows, and doors; these ammunition storehouses were similar in design to Quartermaster warehouses. The Quartermaster Department designed the buildings to allow proper ventilation of ammunition.¹³

In July 1926, the Navy's Ammunition Depot at Lake Denmark, New Jersey, suffered a disastrous explosion that destroyed the depot, portions of the Army's Picatinny Powder Depot, and nearby towns. After this, both the Army and Navy adopted a policy of constructing semi-circular concrete and steel "igloo" storage structures set into the ground surface and with surrounding earthen walls. However, funding limitations prevented the military from implementing this policy on a wide scale.¹⁴ On average installations, the typical small individual ordnance storehouse did not vary greatly in appearance from the pre-1926 above-ground ordnance storehouses. During the 1930s, the Army adopted structural clay tile as the favored construction material for ordnance storage buildings; the typical non-igloo storage building of this era was a one-story, above-ground, structural clay tile structure with a vented gable roof.

¹³ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 -1918, Plans, 24, 46, 103, 128, 137, 282, 390.

¹⁴ Harry Thompson and Lida Mayo, *The Ordnance Department, Procurement and Supply*, Washington, D.C. Government Printing Office, 1960, 360-361.

On Army installations not specifically designated as ordnance production or storage facilities, the growth in garrison size and amount of ordnance used can be seen in the evolution of ordnance storage facilities from a single powder magazine at nineteenth-century western posts to entire complexes of magazines located several miles away from the main cantonment area by the end of the 1930s. The installation mission determined the number of ordnance storage facilities required at the installation. For example, artillery installations used more ordnance and thus were supplied with more extensive ordnance storage buildings.

Depots and Arsenals. The Ordnance Department operated ordnance production facilities and regional ordnance storage depots. The storage buildings at nineteenth-century ordnance production and regional depots were two-story, masonry, gable-roofed buildings that were much larger than the single powder magazines at garrison posts. The storage facilities at Watervliet Arsenal, New York, were large, windowless, stone buildings. The Ordnance Department operated an ordnance depot for the Department of the Missouri during the mid-nineteenth century at Ft. Leavenworth, Kansas. The depot was housed in two, two-story, brick warehouses, with regular window openings and simple decorative brickwork, including pilaster strips and corbelled cornice.

After the 1926 Lake Denmark Ammunition Depot explosion, new ordnance storage buildings were constructed at Picatinny Arsenal, New Jersey. Different types of storage facilities were constructed for different types of ordnance. For stable materiel, above-ground, rectangular, structural clay tile or brick buildings with loading docks along the long side were constructed. For more volatile ordnance and raw materials, igloo storage structures were built. The post-1926 ordnance storage buildings were dispersed to prevent the spread of explosions. Dispersed ordnance storage facilities of these two types--either above-ground, brick or structural clay tile magazines or partially below-ground, concrete igloos--were the prevalent pattern of layout and design at large-scale ordnance storage installations.

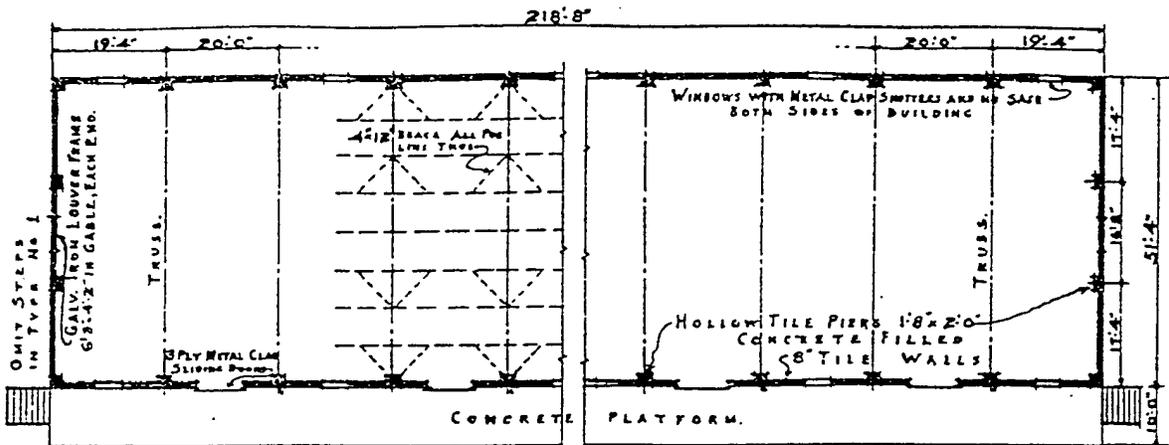
Association:

Ordnance storage buildings are associated with the evolution of weapons technology and illustrate the general evolution of military logistics and supply in relation to weaponry. Ordnance storage buildings, in general, do not possess individual historic or architectural significance. The storage of ordnance alone is not an historically significant context; however, ordnance storage facilities may be associated with other significant historic contexts, such as a significant method or type of construction or a significant ordnance production activity. Ordnance storage buildings may contribute to an historic district if they are part of a cohesive concentration of buildings that possess historical or architectural significance, particularly if the historical significance of the district is related to military ordnance. A complex of ordnance storage buildings on an installation with the primary mission of ordnance production and storage may form a distinctive district, while the few ordnance storage buildings on other types of installations may be contributing support buildings in an historic district, if they are physically related to the district. The dispersed layout of twentieth-century ordnance storage facilities affects their ability to contribute to historic districts.

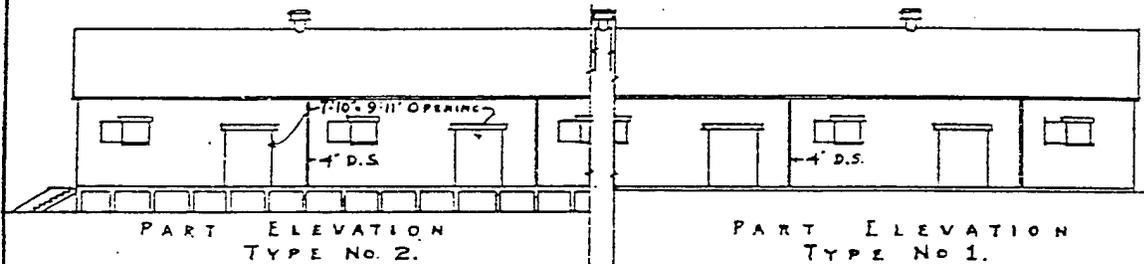
Integrity:

To possess integrity, ordnance storage facilities should retain most of their design, setting, and exterior construction materials from the period of significance of the historic district.

Nineteenth-century ordnance storage facilities usually have undergone the most substantial modifications and may have been adapted for use for other types of storage or, in cases of large ordnance depots, even for offices. Ordnance storage facilities from the 1920s and 1930s often have undergone little modification due to their specialized design.

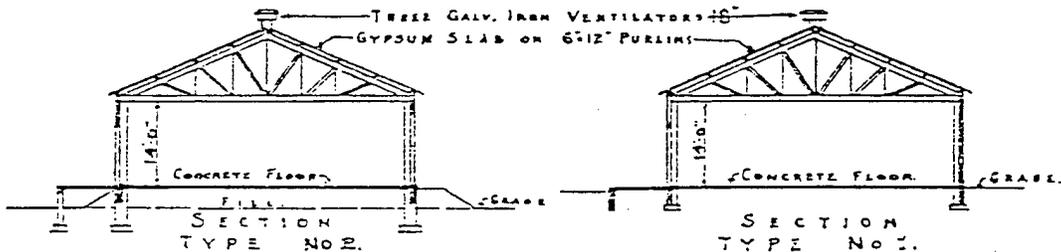


TYPICAL PLAN.
TYPES NO 1 AND NO 2.



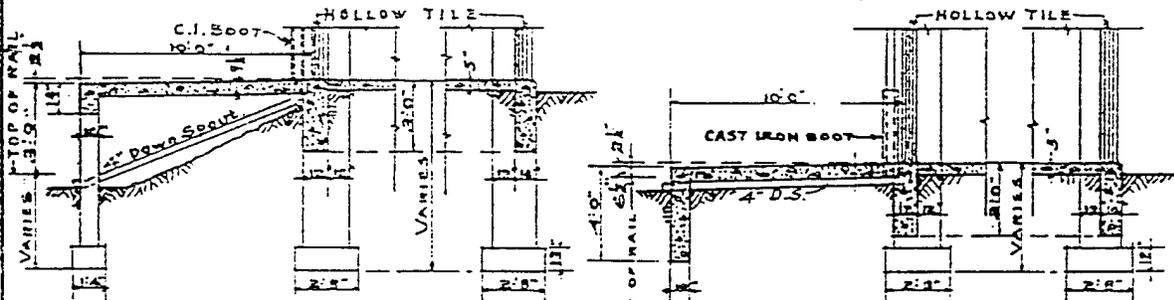
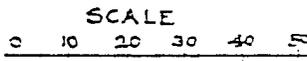
PART ELEVATION
TYPE NO 2.

PART ELEVATION
TYPE NO 1.



SECTION
TYPE NO 2.

SECTION
TYPE NO 1.



FOUNDATION DETAIL
TYPE NO 2.

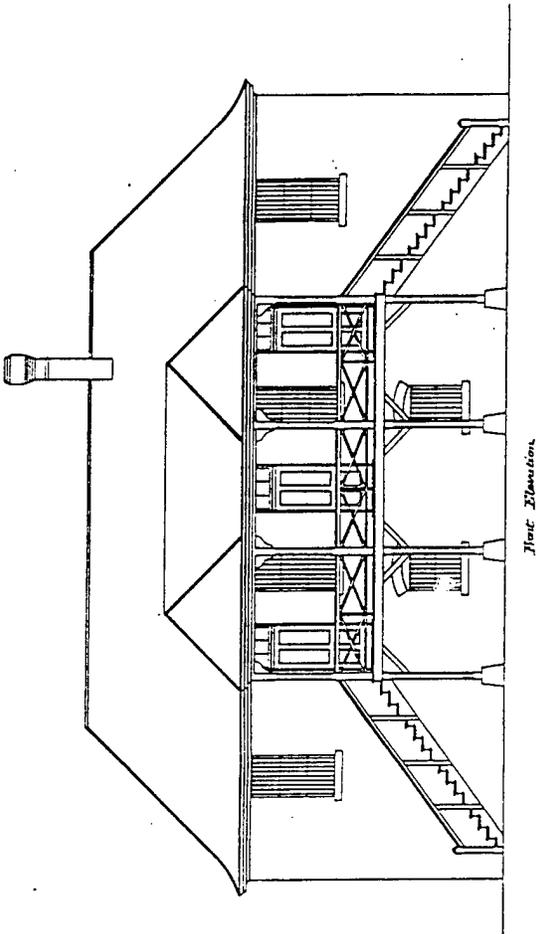
FOUNDATION DETAIL
TYPE NO 1.

CARRY FOOTINGS DOWN TO FIRM SOIL.

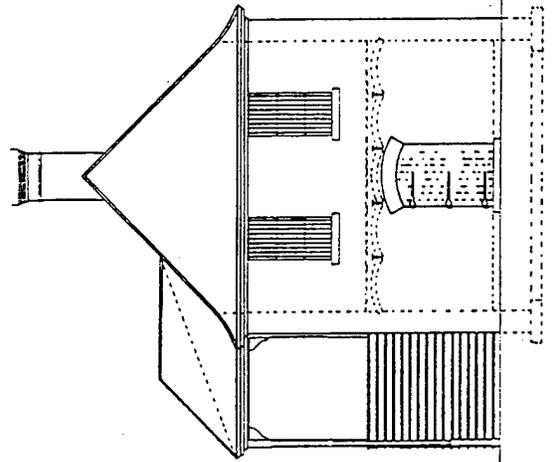
FOR DETAILS SEE DRAWING (652-7 FOR TYPE NO 1.
652-9 FOR TYPE NO 2.

CONSTRUCTION DIVISION OF THE ARMY
STANDARD MAGAZINES
TYPES NO 1 AND NO 2.

SB-23



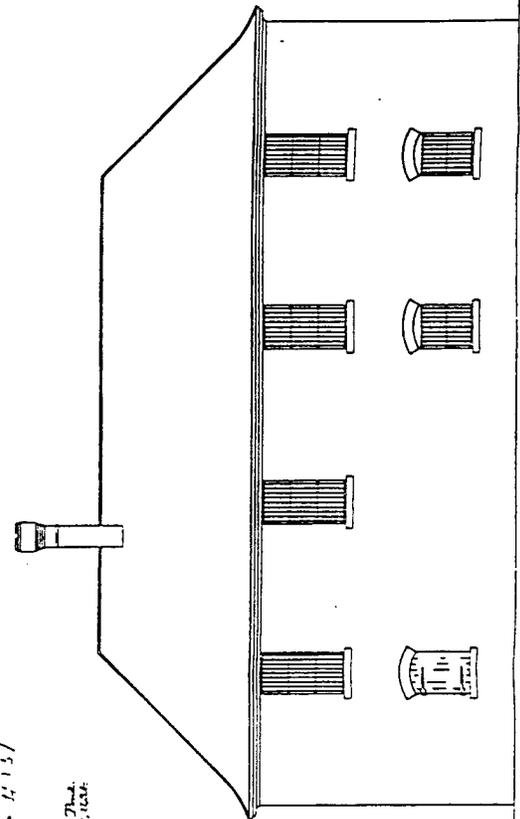
Front Elevation



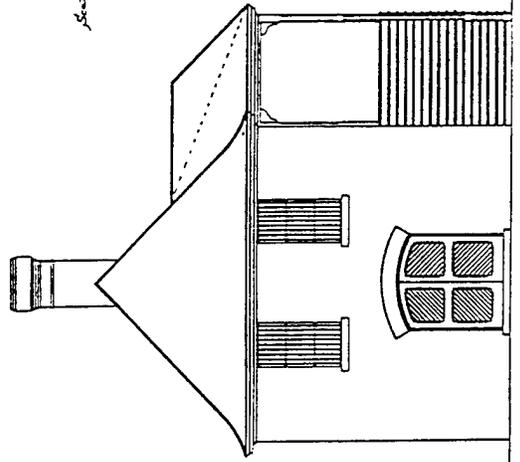
End Elevation

Ordnance Storehouse 41157

Fort Bliss, Ariz.
Capt. Geo. R. Flint
1896, 1897
Scale: 1/8" = 1'



Rear Elevation



End Elevation

Sheet 4
File A14-1

HO 307-0157

Category: INFRASTRUCTURE

Type 6 a: Power Plants/Electrical Systems

Description:

Power plants and their attendant distribution systems on military installations provided power to manufacturing establishments and heating and electricity to residential communities. Central power plants generated power that was distributed through a system of substations. The central power plants generally were large industrial buildings, while the supporting substations were small, utilitarian buildings. Both power plants and substations were constructed of masonry. In some cases, the central power plants were placed in prominent locations and given high-style architectural treatment. The location and prominence of power plants depends on the installation mission and date of construction. Power plants for garrison posts and training stations usually were located away from the main area of the installation and were unadorned, utilitarian structures. Late nineteenth- and early twentieth-century industrial installations, such as shipyards and arsenals, received large, prominent power plants that symbolized the military's growing industrial power. Mid twentieth-century power plants usually display more utilitarian, functional design, and usually were located away from the main area of the installation.

Evolution:

During the late nineteenth century, the Army consolidated its troops in larger installations with permanent construction and improved the living standards on its posts. During the 1880s and 1890s, the Quartermaster Department began to experiment with integrated steam heating systems on installations. The first integrated system was installed at Ft. Riley, Kansas, during the 1880s. Ft. Riley's central steam heating plant used four miles of pipe to send steam throughout the post. This plant also captured and recondensed the steam to avoid a build-up of calcium in the boilers.¹

The Army introduced electric lighting into barracks in 1891. The need for power stations grew as the Army expanded electrical service at U.S. installations. Installations constructed after the 1890s were equipped automatically with a power plant.² Power plants were added onto older installations as systems and facilities were modernized. Power plants usually were one-story, masonry buildings with tall chimney flues. During the wave of new installation construction during the 1930s, the Army constructed larger, two-story, masonry power plants. Smaller complexes within an installation, such as a hospital complex, sometimes were equipped with a separate power plant. Substations were constructed to aid the distribution of power around the installation through a system of electrical substations and transformer huts.

¹ National Archives and Records Administration, Record Group 92, Office of the Quartermaster General, Consolidated Correspondence File, Boxes 909 - 916, Ft. Riley.

² David A. Clary, *A Life Which is Gregarious in the Extreme: A History of Furniture in Barracks, Hospitals, and Guardhouses of the United States Army, 1880-1945*, MSS, U.S. Department of the Interior, National Park Service, Harpers Ferry Center, Harpers Ferry, West Virginia, 1983, 34.

Association:

Power plants either are associated with the primary mission of an installation, such as at shipyards, manufacturing facilities, and some air fields, or are secondary support structures that provided heat and electricity to housing and administration areas. Power plants also are related to the developing technology of the industrial and machine ages. Power plants associated with the primary mission of installations often are prominent buildings in central locations that illustrate their relationship to the industrial process at the installations. This type of power plant should be evaluated for its association with the mission of the installation and for its architectural significance. Power plants that provided power to residential and administrative buildings are not related to the primary mission of the installation; their role as secondary, support structures is reflected in their utilitarian designs and isolated locations. Power plants in this second category usually are not associated with a significant historic context and thus do not possess historical or architectural significance as individual buildings; however, they may contribute to an historic district if they are in an area with a concentration of historic properties.

Integrity:

To possess sufficient integrity to contribute to an historic district, power plants and their attendant support structures should retain most of the exterior design features, materials, and setting from their period of significance. If the building is under consideration as an individual historic property, then the interior also should retain sufficient integrity of materials, spatial arrangement, and equipment to represent the period of significance. Often power plants have been upgraded or expanded. Common modifications include changes to original window and door openings and the construction of additions. Character-defining features of power plants include the pattern of openings, the distinctive tall chimney stacks of many early power plants, construction materials, and the architectural vocabulary specific to the power plant. For example, the monumental neoclassical design elements of turn-of-the-century power plants are important elements of the buildings' character, while Art Deco or modern architecture elements are defining features of 1930s power plants. These facilities still may possess integrity if they retain the majority of their design, setting, materials, association, and workmanship from their period of significance.



1939 Electrical System Station at McChord AFB, WA



1938 Central Heating Plant at McChord AFB, WA

Category: INFRASTRUCTURE

Type 6 b: Water and Sewage Systems

Description:

Water and sewage systems comprise buildings and structures that provided clean water and disposed of waste water on military installations. In some cases, elements of the water system, such as water towers, were incorporated into the installation design as prominent architectural features. In other cases, they were simple utilitarian buildings. Water and sewage system facilities usually were constructed of permanent materials. Other than the water towers, the remainder of the water and sewage system buildings and structures usually were located away from the main area of the installation.

Evolution:

During the first three-quarters of the nineteenth century, water supplies were collected through reservoirs, roof catchments, cisterns, and wells. The growing sophistication of urban life was epitomized by the introduction of indoor plumbing and electricity at the end of the nineteenth century. When the Army consolidated its troops in larger and more permanent installations during the 1880s and 1890s, the Quartermaster Department included plans for water storage and distribution systems at the new and expanded posts. The earliest water tower identified in this study was constructed between 1876-1878 as part of the quartermaster depot at Ft. Sam Houston, Texas. The 90-foot high structure contained a watchman's room, a 6,400-gallon water tank, and a four-faced clock. The water tower was part of a water distribution system in conjunction with rain cisterns and a reservoir.

The inclusion of indoor plumbing and steam heat in Army housing during the 1880s increased the complexity of the water supply and distribution. By 1892, all but 130 company barracks had hot and cold running water. By 1893, most posts included planned sewer systems. This necessitated the development of water supply infrastructure. By 1896, the Quartermaster Department spent more than \$250,000 on water supply, plumbing, sewerage and drainage. These technological advances required more complex engineering answers to the problems of water distribution and waste removal.³

The Quartermaster Department issued standardized plans for metal water tanks raised on wood trestle towers during the 1890s.⁴ These utilitarian water towers were probably the most common type of water towers found on Army installations. Other facilities required for water distribution systems included pumping stations.

³ David A. Clary, *A Life Which is Gregarious in the Extreme: A History of Furniture in Barracks, Hospitals, and Guardhouses of the United States Army, 1880-1945*, 21-22.

⁴ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, P.I. NM-19, Entry 411, Plan 16.

In some cases, water towers were designed as prominent elements in the installation plan. At Ft. Sheridan, Illinois, the 1890 water tower is a Romanesque stone tower that joins two barracks and serves as an important landmark on the installation. Water towers again were used as features of installation design during the nationwide construction program of the 1930s. Barksdale AFB, Louisiana, and Randolph AFB, Texas, are examples of installations with unique water towers that serve as architectural landmarks, as well as water storage facilities. The water tower at Barksdale originally was a plain standpipe, but in 1934, it was encased in cladding to resemble a castle tower.

The Quartermaster Department also engineered sewage and water treatment systems. Generally these facilities were located apart from the rest of the installation. In some instances, the early sewage treatment plants, though originally located far from the main parade ground, have been overtaken by subsequent post development. At the World War I training camps, the water and sewage facilities were among the only buildings of permanent construction, and thus may predate much of the rest of the permanent construction. By the 1930s, sewage and water treatment plants were basic elements of installation planning. The results of the field survey conducted for this project indicated that the water and sewage facilities constructed during this prolific building period were not built according to standardized plans. Building designs were the result of site requirements and installation size. In rare instances, architectural elements were incorporated into the design to produce more than the basic, functional structure.

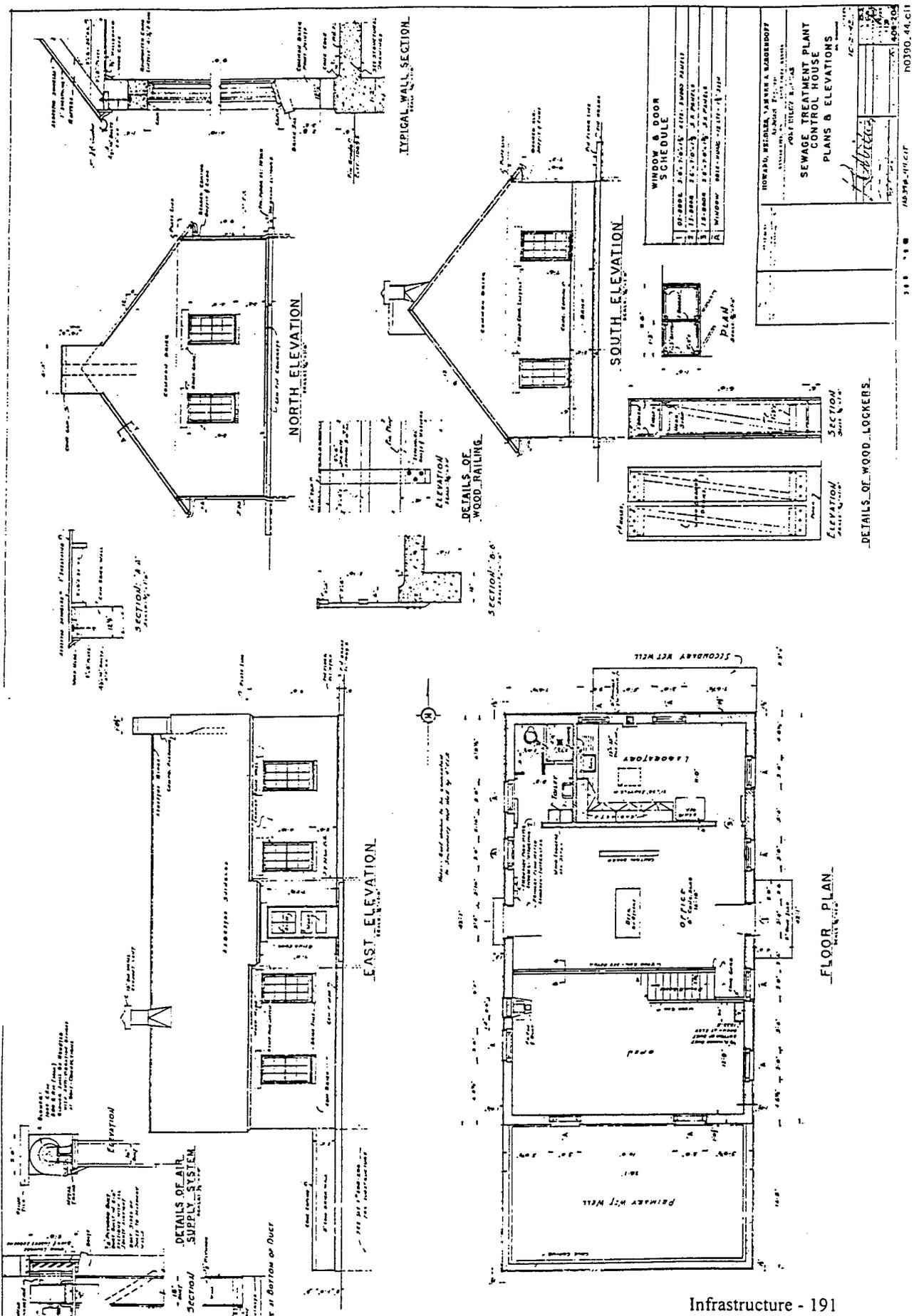
Association:

Water distribution and sewage treatment facilities are associated with the development of an infrastructure on military installations comparable to that of contemporary cities. These facilities usually are support structures that do not possess historical or architectural significance, and often are located apart from the main area of the installation, and thus are physically isolated. However, they may be contributing resources in an historic district if they are located in an area with a concentration of historic properties. In some instances, the buildings may possess architectural significance as representatives of important types or methods of construction. In several cases, installation water towers possess high artistic merit, are integral elements in the installation plan, and have become symbols of the installations; in these cases, they may be individually eligible.

Integrity:

If the water and sewage treatment facilities possess significance, then their integrity, that is, their ability to convey that significance, must be evaluated. If the structure is significant for its architectural merit, then the important features of the structure must be identified. Since these structures were not the result of standardized design, no universal list of character-defining features was derived from examination of the existing examples. To possess architectural integrity, water distribution and sewage treatment facilities should retain most of their design and external construction materials from their periods of construction. Setting also is an important element of integrity, particularly if the structure was part of an installation master plan, as in the

case of some water towers. Other important elements of integrity for these buildings include shape, height, pattern of openings, materials, and ornament.



WINDOW & DOOR SCHEDULE

| | | | |
|---|--------|---------------|------|
| 1 | DOOR | 6' 0" x 8' 0" | WOOD |
| 2 | WINDOW | 4' 0" x 6' 0" | WOOD |
| 3 | WINDOW | 4' 0" x 6' 0" | WOOD |
| 4 | WINDOW | 4' 0" x 6' 0" | WOOD |

HOWARD, BERGER, JENSEN & BERGHOFF
 ARCHITECTS
 1001 W. 10TH ST.
 SEASIDE, CALIF.

SEWAGE TREATMENT PLANT CONTROL HOUSE PLANS & ELEVATIONS

DATE: 10-1-54
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

NO. 390-44, C11

Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 a: Assembly Halls

Description:

Assembly halls were built during the late nineteenth and early twentieth centuries to provide an indoor facility to assemble enlisted personnel for lectures and for live entertainment. They pre-date the construction of movie theaters on military installations. The buildings constructed for this purpose generally were one- or two-story rectangular buildings, often with the front entrance in the gable end. Assembly halls often had stages along the rear wall. They often were built of wood frame construction.

Evolution:

During most of the nineteenth century, Army posts had few buildings specifically devoted to educational or recreational purposes. Quartermaster Department standardized plans for administration buildings often included rooms for use as libraries, chapels, assembly rooms, and school rooms. Following recommendations in 1878 from a board of officers, installation commanders were allowed to use post funds to construct separate buildings for schools, chapels, reading rooms, and libraries. The Quartermaster's Department furnished an increasing number of posts with these types of buildings. The Quartermaster Department issued a standardized plan for a separate assembly building during the 1890s. The plan depicts a one-story building with windows along the sides; the interior contained an open assembly area facing a stage at the end of the building. This basic plan was constructed until the early twentieth century. Assembly halls provided space to assemble troops for lectures and also for entertainment such as amateur theatricals and dances.¹

The assembly hall as a separate building on Army posts was short-lived. It was subsumed into the broader range of recreational buildings constructed during the twentieth century, such as movie theaters and gymnasiums. Movie theaters were constructed at most installations during the 1930s. The Quartermaster Corps often included assembly rooms in their plans for gymnasiums during the 1930s. Red Cross and YMCA buildings also were used to provide much of the same entertainment functions of assembly halls.

Association:

Assembly halls are associated with the growth of social and cultural amenities provided on military installations during the late nineteenth and twentieth centuries. They may not possess historic significance as individual buildings, but can be contributing buildings in an historic

¹ Erna Risch, *Quartermaster Support for the Army - A History of the Corps 1775-1939*, Washington, D.C., Government Printing Office, 1962. Reprinted 1989, 490; National Archives and Records Administration, Cartographic Branch, Record Group 77, Standard Plans of Army Post Buildings 1891-1918, P.I. NM-19, Entry 411, Plan 72.

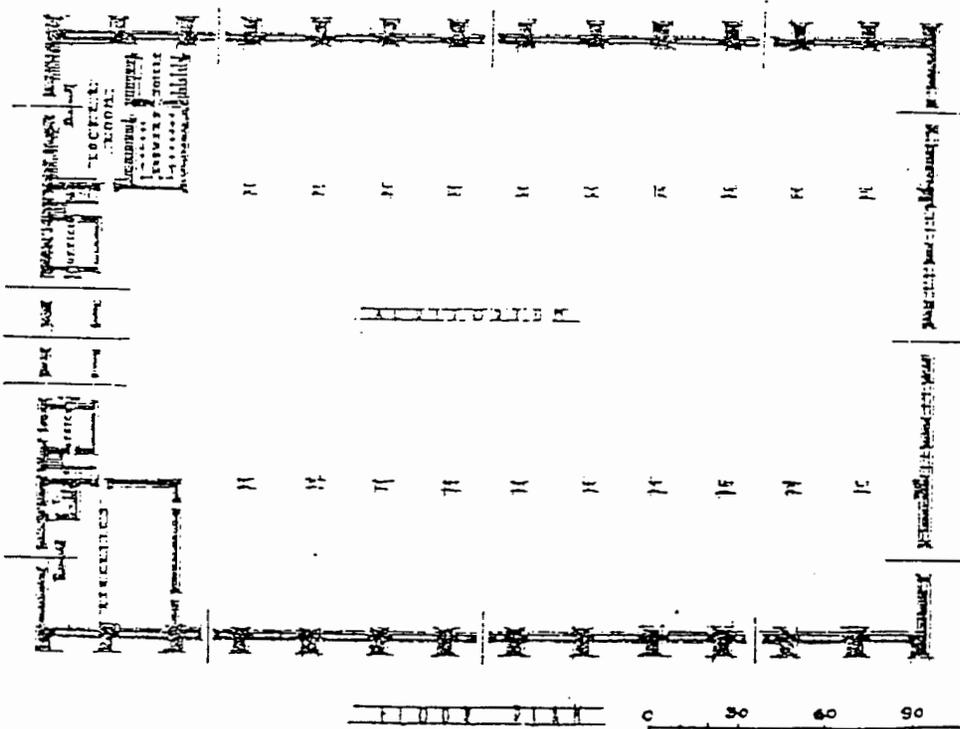
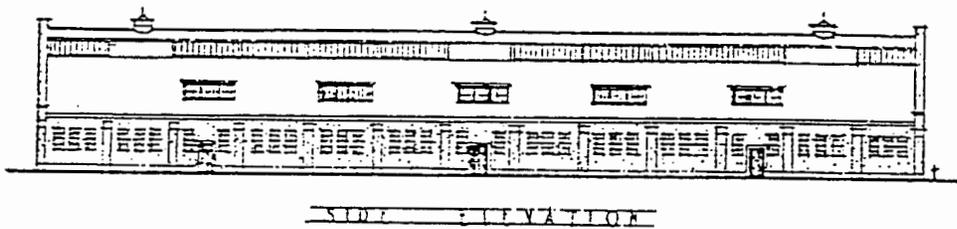
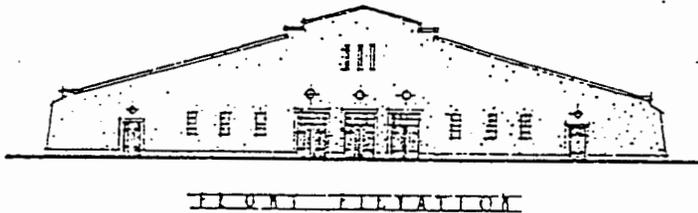
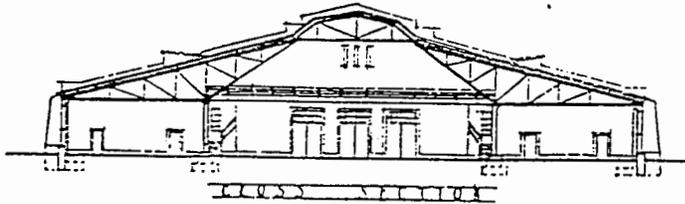
district. As part of an historic district, they may help to convey the character of early twentieth-century military life and the character of the installation's layout and architecture.

Integrity:

To possess integrity, assembly halls should retain the majority of its design, materials, workmanship, location, setting, and, association from its period of significance. In cases where an existing building was adapted to serve as an assembly hall, the alterations may have attained significance and should be evaluated within their appropriate context. Character-defining features of assembly halls can include porticos, ticket vestibules, and marquees. Architectural ornamentation is concentrated on the front facade of most assembly halls and may include a Colonial or Mission Revival portico, depending on the region. If the building is under evaluation for historic significance as an individual building, then the interior integrity also must be assessed. Character-defining elements of the interior include the original configuration of interior space, materials, and workmanship.



1900's Assembly Hall at Presidio of Monterey, CA



FOR DETAILS SEE DRAWINGS 608-19-20-21-22.

CONSTRUCTION DIVISION OF THE ARMY
 AUDITORIUM
 200'-0" x 300'-0"

SB-24

Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 b: Athletic Facilities

Description:

Athletic facilities on military installations included gymnasiums, bowling alleys, and outdoor facilities, such as swimming pools, golf courses, playing fields, and stadia. These facilities usually followed the same design traditions as the same types of civilian facilities of the same era.

Evolution:

During the late nineteenth century, the Army devoted increased attention to the improvement of living conditions on its posts. The health, morale, and well-being of troops were considered important factors in Army performance. The Army began to encourage recreational activities and exercise. For instance, Quartermaster General M. C. Meigs supported the construction of bowling alleys, though no funds were available for this purpose. Meigs also published an article, distributed widely among post libraries, on how troops could make their own billiard table and bowling alley. By the early twentieth century, some bowling alleys had been built at various posts. The Quartermaster Corps issued a standard plan for bowling alleys in 1908.²

By the early twentieth century, the Army had incorporated athletic facilities into its building program. Often athletic facilities were combined with other functions such as the post exchange. The Quartermaster Department began to issue standardized plans for a combined gymnasium, bowling alley, and post exchange in 1903. The Quartermaster Department issued a separate standardized plan for a gymnasium building in 1904. Though the Quartermaster Department issued plans for gymnasiums and exchanges, 1904 Quartermaster regulations stated that post exchanges, gymnasiums, bowling alleys, and other places of amusements could be constructed only with materials at hand, and must incur no cost to the government and must utilize the labor of troops.³ Until World War I, gyms and post exchanges often were combined in a single building.

During the 1920s, the Army received few funds for new construction. Recreational facilities were funded through private means. For instance, the Secretary of War authorized the establishment of a Recreational Center Board at Ft. Benning, Georgia. The board raised funds and oversaw the planning and construction of athletic and recreational facilities. Athletic

² Risch, *Quartermaster Support for the Army*, 489-490; NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings 1891-1918, Plan 216A.

³ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings 1891-1918, Plans 154, 154A, and 159; War Department, General Staff, *Manual for the Quartermaster's Department, United States Army, 1904*, Washington, D.C., Government Printing Office, 1904, 29.

facilities constructed by the Board included the Doughboy stadium, outdoor playing fields, and a swimming pool.⁴

During the wave of new, permanent construction during the 1930s, athletic facilities became typical features of Army installations. The results of the field survey conducted as part of this study indicate that the type, design, and size of athletic facilities did not follow standardized plans and varied from installation to installation. Gymnasiums were common buildings on posts from this period. They usually were masonry, rectangular buildings that were designed in the same regional architectural style as the other buildings of the installation.

Outdoor sporting facilities also were common elements of Army posts. Polo remained a popular sport, in keeping with the equestrian culture of the Army. A few riding halls were constructed for indoor equestrian training. Golfing became a popular sport and the number of golf courses proliferated. Where land permitted, new golf courses were laid out; if land was scarce, the parade ground was adapted to a nine-hole golf course. During the late 1930s and early 1940s, golf clubhouses were constructed. Other outdoor sports included tennis, swimming, and boating. Swimming pools were constructed using both appropriated funds and non-appropriated funds. Those swimming pools constructed by the Quartermaster Department generally included one-story bathhouses.

Association:

Athletic facilities are associated with the growth of social and cultural amenities provided to military personnel during the twentieth century. They also are associated with the general rise of interest in organized sports and fitness during the early twentieth centuries, which is evident from the construction of buildings, structures, and fields specifically for sports in towns, on college campuses, and on military installations. Athletic facilities are recreational facilities that are located typically at military installations with large numbers of resident military personnel. Athletic facilities generally do not possess individual historic significance, but can be contributing features to an historic district. The athletic facilities on military installations often are functional structures without significant historical associations. Selected examples may be architecturally significant for their design or construction or may have developed into symbols of an installation or service branch.

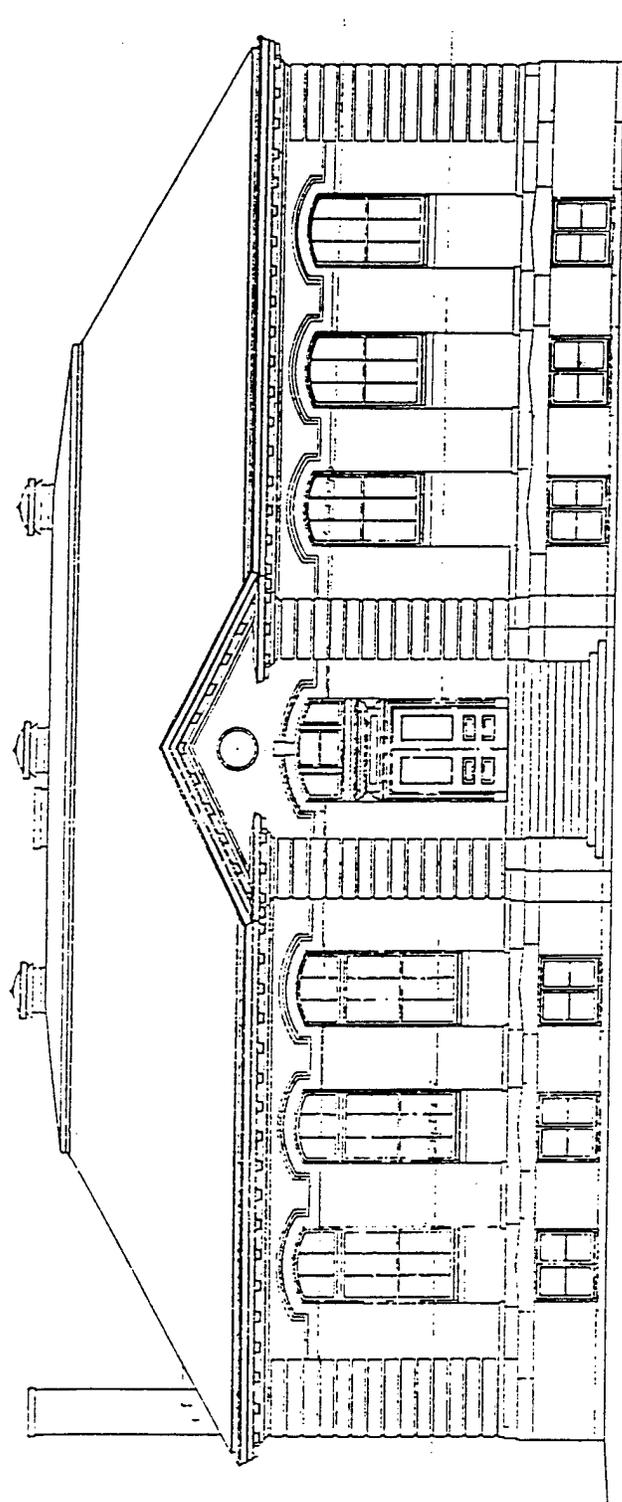
Integrity:

To possess architectural integrity, athletic facilities should retain most of their architectural ornamentation, design features, and exterior materials from the period of significance. Where subsequent additions or renovations have occurred, the building may have integrity if it retains the majority of its character-defining features, such as its location in the installation plan, materials, workmanship, and design, including exterior openings, proportions, and massing.

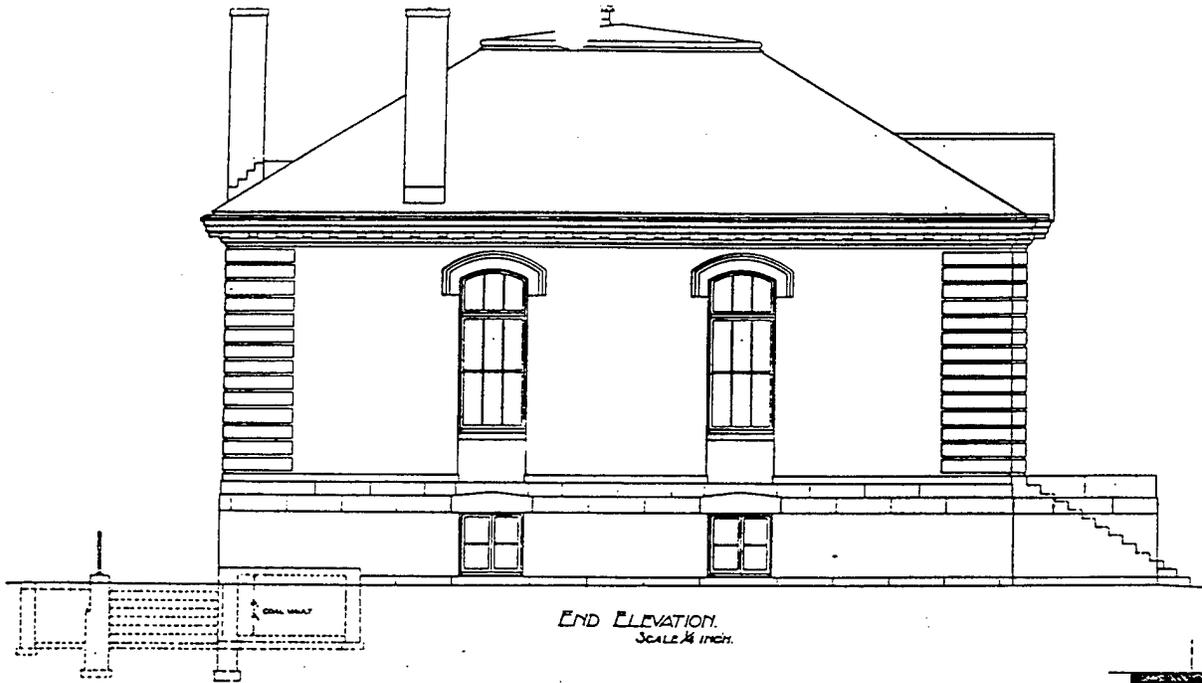
⁴ Robinson Fisher Associates, *Historic Building Survey: Fort Benning, Georgia, MSS, Fort Benning, Georgia, 1987.*



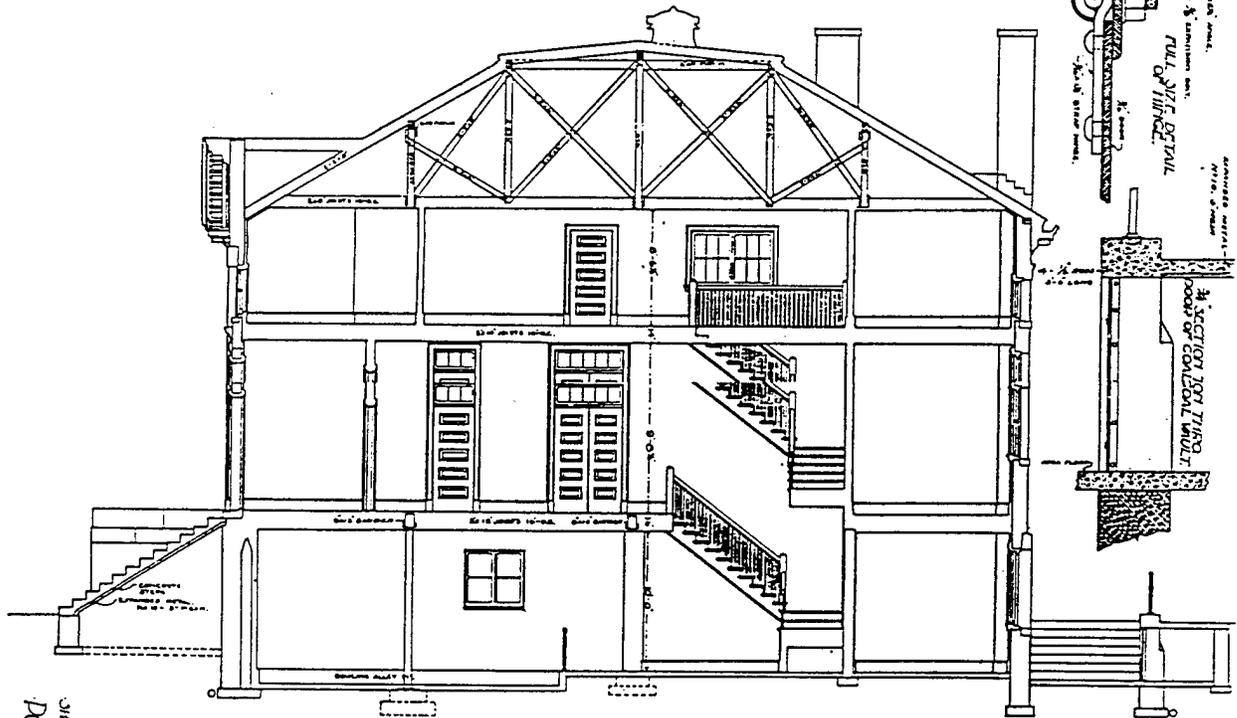
1904-05 Gymnasium at Vancouver Barracks, WA



FRONT ELEVATION
Scale: 1/8" = 1'-0"

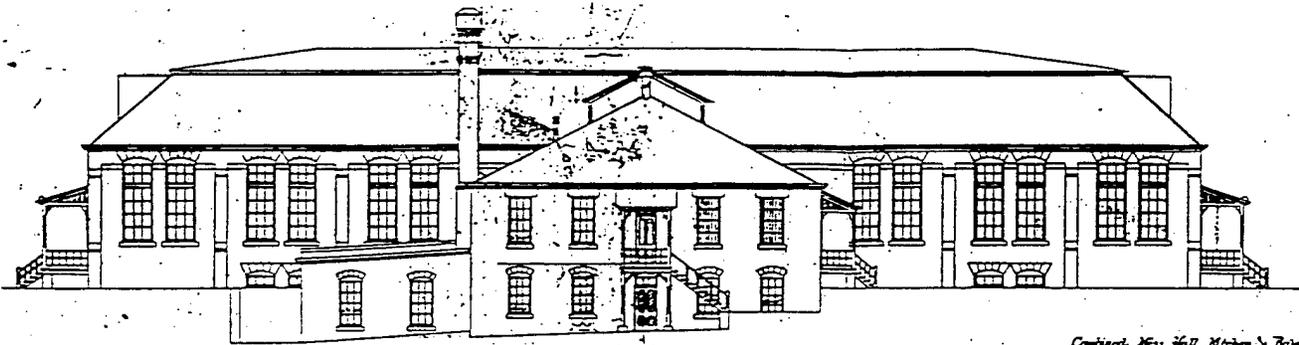


END ELEVATION.
SCALE 1/4 INCH.



TRANSVERSE SECTION.
SCALE 1/4 INCH.

SHEET NO. 6 - 174 - CONSTRUCTION DRAWING
 POST EXCHANGE & GYMNASIUM
 MAY 1906
 NO. 405.03.C11



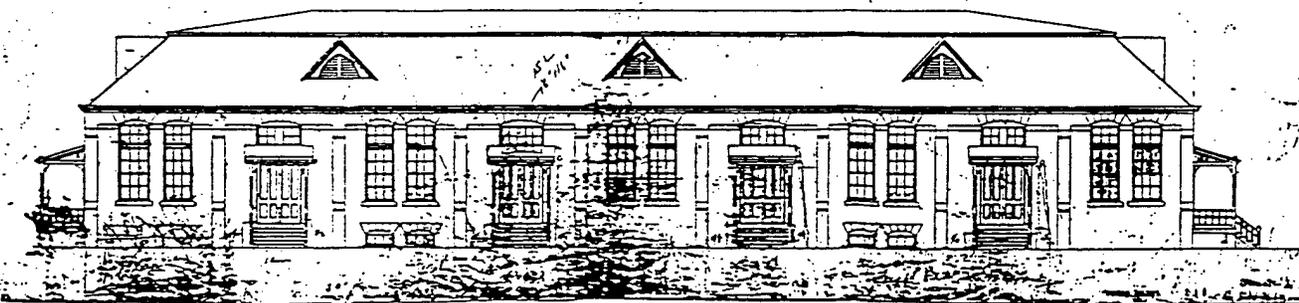
West Elevation

Combined Mess Hall, Kitchen & Bakery
 as proposed for
 Fort Riley, Kansas
 by Capt. Geo. I. Hunt
 of P. O. V. S.
 Scale 1" = 10'

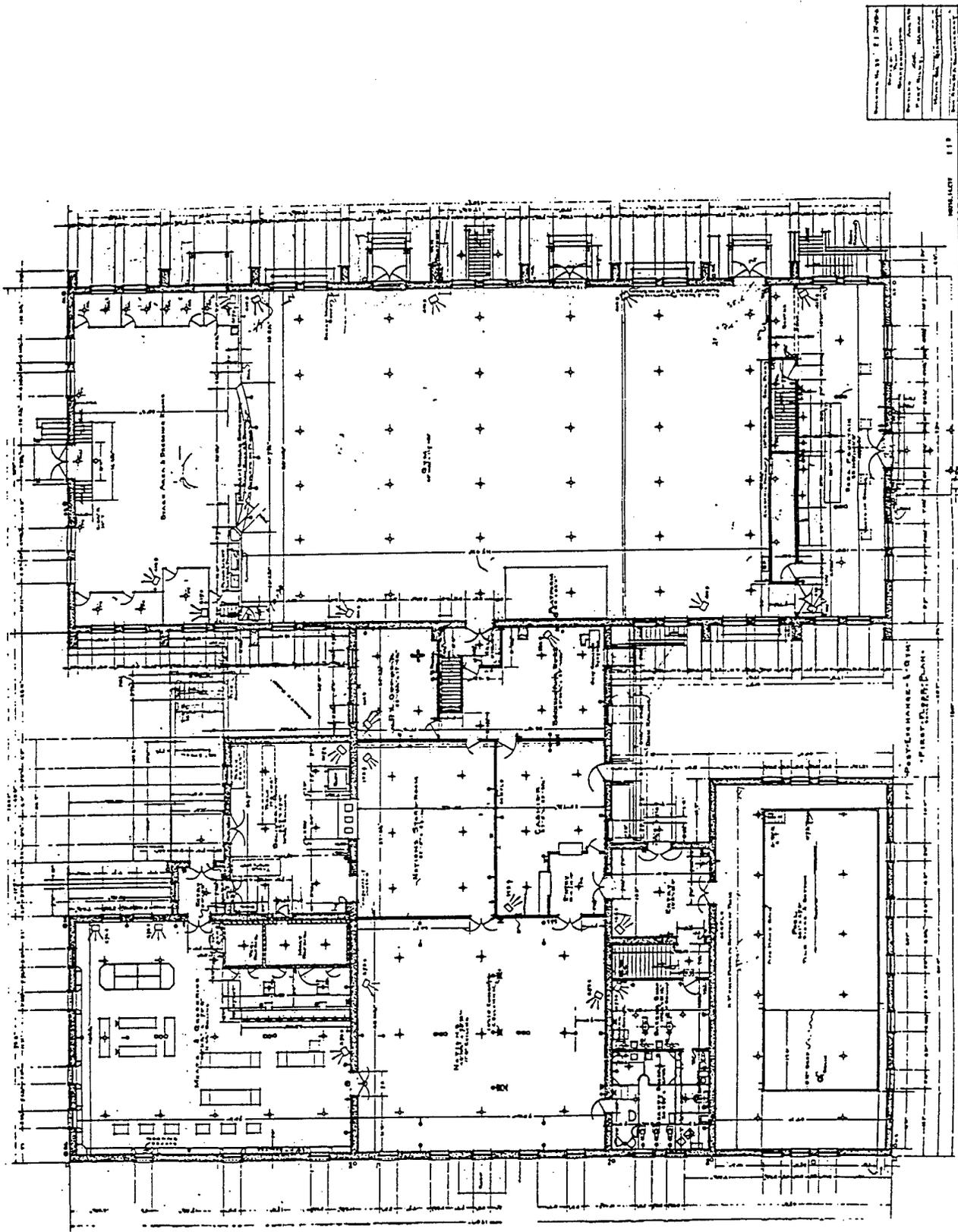


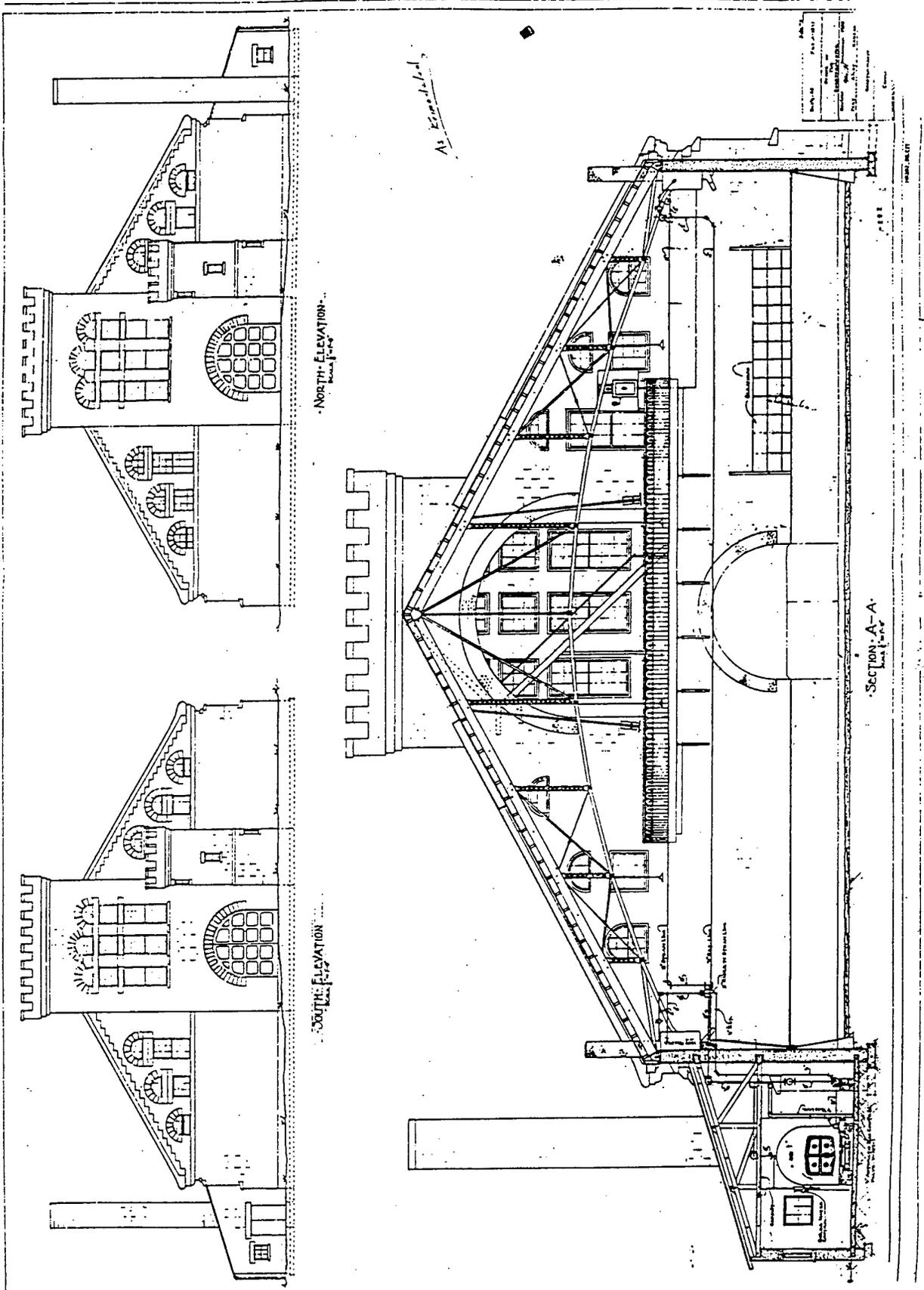
West Elevation

POST EXHIBITION AND SYMPOSIUM
 FORT RILEY, KANSAS



NO 210.05.cit





Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 c: Chapels

Description:

Military chapels usually are non-denominational buildings designed for religious services. Chapels constructed at military installations reflect a variety of architectural expressions. Gothic Revival was the predominant style on Army posts, though neoclassical chapels also were built. With some exceptions, the design of chapels was not standardized until the early 1900s. Until then chapels were individually designed and varied among installations. They are similar in typology to university chapels and community churches of the same eras.

Evolution:

Chapels first appeared as separate buildings on Army installations during the second half of the nineteenth century. Chaplains first worked in an unofficial capacity. In 1838, Congress enacted legislation authorizing seventy Army chaplains. During most of the nineteenth century, the actual number of chaplains fluctuated between fifteen and thirty-six. Chaplains were assigned to posts considered "most destitute of instruction." At many posts, chaplains performed services in barracks or in administration buildings, not in separate chapels.⁵

At posts where chapels were constructed, funding was raised through private subscriptions. At some posts, the post council of administration provided special funds for chapel construction. Though some officers believed that the Quartermaster Department should fund construction, appropriated funds were not used for chapels and private funding remained the primary means of funding chapel construction.⁶

Early military chapels followed the various traditions of American church design. The earliest chapel identified during this study was the Old Cadet Chapel, a stone Greek Revival chapel completed in 1837, at the U.S. Military Academy at West Point. Other early chapels are located at Ft. Riley, Kansas, and Ft. Monroe, Virginia. Ft. Riley's small stone chapel was constructed about 1855. The wood frame, board-and-batten Chapel of the Centurion at Ft. Monroe was completed 1857 and dedicated in 1858. It is similar to published designs for rural churches by Richard Upjohn, an architect noted for his Gothic Revival church architecture.

Chapels became more common on Army posts during the years after the Civil War. Proposed Army construction regulations published in 1861 included estimates for a chapel and depicted a chapel design similar to a company barracks. After the Civil War, Congress authorized the establishment of schools at posts, garrisons, or permanent camps to instruct enlisted men. When

⁵ Herman A. Norton, *Struggling for Recognition: The United States Army Chaplaincy, 1791-1865*, Washington, D.C.: Government Printing Office, 1977, 49; Earl F. Stover, *Up from Handyman: The United States Army Chaplaincy 1865-1920*, Washington, D.C., Government Printing Office, 1977, 32.

⁶ Norton, *Struggling for Recognition*, 51.

no suitable room or buildings were available for educational or religious purposes, the Secretary of War directed the Quartermaster Department to construct them. The Quartermaster Department submitted plans and detailed estimates of cost to the Secretary of War; however, by 1878, few buildings for educational or religious purposes had been constructed. A board of officers convened to implement the policy of providing buildings for educational and religious purposes recommended the use of post funds to construct such buildings and the wider use of Quartermaster appropriations. Consequently, the Quartermaster Department began to construct an increasing number of schools, chapels, reading rooms, and libraries. In some cases, existing buildings were converted to chapels. For example, at Ft. McPherson, Georgia, a building originally constructed as a guardhouse was converted to a chapel in 1893.⁷

Despite the apparent availability of appropriated funds for chapel construction, private funds remained the main source of funding for chapel construction. Construction of Catholic churches on Army posts was funded through private or Church funds. After the construction of the Chapel of the Centurion at Ft. Monroe, the Catholic Church received permission to build a chapel outside of the walls of the fortifications and constructed a simple wood frame church in 1860. After its destruction by fire, the original church was replaced by a more elaborate Gothic Revival stone church in 1903. In 1889, a brick, Gothic Revival church was built at Ft. Leavenworth, Kansas. Chapel construction was often an opportunity for the post and the civilian community to work together to establish strong connections. At Ft. Sam Houston, Texas, a group of community leaders and members of the military garrison formed a committee to raise funds for the construction of a post chapel on land donated by the City of San Antonio. The 1909 chapel was an elaborate, neoclassical building designed by local architect Leo M. J. Dielman.⁸

Chapels offered an opportunity for landmark architecture and sometimes were major examples of high artistic expression. The chapel constructed between 1906 and 1910 at the U.S. Military Academy at West Point is the most striking chapel on an Army installation. This impressive Gothic Revival building was designed by the architectural firm of Cram, Goodhue, and Ferguson as a major element of their new plan for the U.S. Military Academy. The chapel dominates the silhouette of West Point and overlooks the Plain from its prominent location.

The Quartermaster Department issued standardized plans for chapels during the first decade of the twentieth century. Francis B. Wheaton, Advisory Architect in the Office of the Quartermaster, designed plans for a chapel reminiscent of small, English country parish churches.⁹ No examples of this plan were identified during this study, but the 1931 chapel at Walter Reed Medical Center is similar to Wheaton's design.

⁷ War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*, Washington, D.C. George W. Bowman, 1861, 4; Risch, *Quartermaster Support of the Army*, 489-490.

⁸ John Paul Graham, et al., *The Architectural Heritage of Fort Monroe: Inventory and Documentation of Historic Structures Undertaken by the Historic American Buildings Survey*, Washington, D.C., Historic American Building Survey/Historic American Engineering Record, National Park Service, Department of the Interior, 1987), 23; *Fort Leavenworth Historic Building Inventory*, MSS, Directorate of Engineering and Housing, Ft. Leavenworth, Kansas, 1983, 5; *National Register of Historic Places Inventory Nomination Form, Post Chapel, Fort Sam Houston*, MSS, National Park Service, National Register of Historic Places, Washington, D.C., 1974.

⁹ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings 1891-1918, Plan 229.

During the wave of new construction at army posts and air fields during the late 1920s and the 1930s, military chapels often were constructed as part of installation construction programs. Gothic Revival remained an accepted idiom for chapel design; an example was the 1935 chapel at Langley AFB, Virginia. Chapels from the 1930s also often reflected the architectural character of the rest of the installation, usually either Georgian Colonial Revival or Spanish Mission Revival. Chapels built during this era remained individually designed buildings that followed accepted traditions of American church design. Private funds remained a source for chapel construction. For example, the Churchwomen's League for Patriotic Service provided the funds for the construction of the 1933 brick chapel at Plattsburgh Barracks, New York (now Plattsburgh AFB).

During World War II, standardized, temporary, wood frame, chapels were included routinely as part of World War II mobilization cantonments. Since World War II, chapels have been added to most military installations.

Association:

Chapels are associated with the growth of social and cultural amenities provided to military personnel starting in the mid-nineteenth century. Chapels also often represent particular types of architectural design associated with the development of American architecture. Military chapels display a range of architectural expressions: from small, wood frame, Carpenter Gothic chapels, to larger, stone Gothic Revival designs with prominent towers, to neoclassical designs, to period revivals. Since the building of chapels usually fell outside of the normal military channels of funding and design, they often were the work of talented local or, in some cases, national architects, and may represent the work of a master designer. Chapels may display high artistic values in their design and craftsmanship. Chapels should be evaluated for their potential significance as an individual building and as a contributing building in an historic district. Chapels often were located in important locations within the installation plan and may be a key element of an historic district.

Integrity:

To evaluate the integrity of a chapel, the reason for its significance and its period of significance must be identified clearly. If a chapel is significant as an individual building, then it must retain exterior and interior integrity. If it is significant as a contributing element in an historic district, then only the exterior integrity must be evaluated. For a building that is significant for its architecture, the character-defining features of that type or period of architecture must be defined. Important elements of integrity for all chapels of any period or type include exterior form, materials, pattern of openings, types of windows and doors, roof shape, workmanship, and ornament.



1934 Main Chapel at Fort Lewis, WA

Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 d: Clubs - Officer and Non-Commissioned Officer (NCO)

Description:

Clubs for officers and non-commissioned officers provided dining facilities and social and recreational opportunities. Service clubs generally were one-story buildings detailed in contemporary architectural styles from their period of construction. Officers clubs are often located on prominent sites in or near officer housing areas; non-commissioned officers (NCO) clubs generally have less prominent locations.

Evolution:

Officers clubs evolved from the officers mess and from unofficial organizations of officers. The hierarchical nature of military life required separate living and dining facilities for officers and enlisted personnel. Officers typically ate in their family quarters or in mess rooms within the bachelor officer quarters. Officers were responsible for paying for their own subsistence. Few free-standing officers mess buildings were built during the nineteenth century.

At Ft. Totten at Willets Points, New York, an officers club developed from an informal organization that provided both professional and social activities. In 1869, the post commander had organized a scientific club called the "Essayons Club of the Corps of Engineers." In 1870, Ft. Totten was designated as the Engineers Depot for the East. By 1870, the Essayons Club had its own wood frame building. The club was composed of all officers on duty at the engineer depot and became a professional forum for military engineers. In 1885, the club received official recognition and became the "Engineer School of Application." The club building was renovated to its present appearance in 1887.¹⁰

By the first decade of the twentieth century, post plans depict officers clubs at the Presidio of Monterey, California, and at Ft. Sam Houston, Texas. Officers messes were depicted on 1906 maps of Ft. Sheridan, Illinois, and Ft. McNair, Washington, D.C.¹¹ No standard building plans for officers clubs or messes were located in the Quartermaster Department 1891-1918 standardized plan files. Officers messes and clubs may have been housed in pre-existing buildings originally built for other uses. For example, at Ft. Monroe, Virginia, officers utilized the Flagstaff Bastion of the old fortifications as their club. In at least one instance the Army built a structure specifically for an officers club. At Ft. McNair (formerly Washington Barracks), the officers club was designed by the architectural firm of McKim, Mead and White, which the Army had commissioned to design the Army War College; the Georgian Revival officers club

¹⁰ *National Register of Historic Places Inventory Form, Fort Totten Officers' Club*, MSS, National Park Service, National Register of Historic Places, Washington, D.C., 1984.

¹¹ NARA, Cartographic Branch, RG 92, Records of the Office of the Quartermaster General, Post Plans 1904-1905.

was placed in a prominent location, facing the parade ground, at the end of the officers' housing row.

During World War I, service clubs proliferated, particularly at installations with few recreational outlets off the installation. Both NCO and officers clubs were constructed at Edgewood Arsenal, Maryland, during World War I.

During the 1930s, officers clubs were standard components of installations. In general, the Quartermaster Corps constructed officers clubs in prominent locations near the officers housing area. As the standard of living improved for enlisted personnel, NCO clubs became more common. During the same period, the Army constructed large numbers of NCO family housing quarters for the first time. NCO clubs were smaller buildings than officers clubs with simpler architectural treatment and usually were located in less prominent locations of the installation, near NCO family housing. Ft. Monroe opened an NCO club in 1934. The Army Air Corps originally built two small, one-story enlisted men's clubs in 1931, one near each area of NCO family housing, at the new Randolph Field, Texas. The clubs of this era were constructed in the prevailing architectural styles, usually Georgian Colonial, Spanish Mission, or Tudor Revival, of the installation.

Association:

Service clubs are associated with the growth of social and cultural amenities provided to military personnel during the late nineteenth and twentieth centuries. Service clubs generally became part of the overall military installation planning process during the twentieth century and may be additions to installations established before 1900. Service clubs can be both major and minor building types on installations. These buildings often reflect the military's adaptation of contemporary architectural styles to installation construction. Service clubs may possess individual architectural merit. They also can be contributing elements to an historic district. Service clubs may have either a prominent or less-prominent location in the overall plan of the installation and can be a major architectural element representing the overall architectural character of an installation.

Integrity:

To possess architectural integrity, service clubs should retain most of their design, materials, workmanship, and setting from their periods of significance. Service clubs are among the most altered of pre-1940 buildings and thus, very few retain their original form, due to numerous additions. As installation populations grew far beyond pre-1940 levels, mess and club facilities were expanded to accommodate the increased numbers of personnel. In instances of subsequent additions or renovations, the building still may have integrity if it retains the majority of its design in terms of massing, roof, proportion, pattern of openings, materials, and ornamentation.



1930's Officer Club at Aberdeen Proving Ground, MD

Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 e: Elementary Schools

Description:

The elementary school building was constructed as a classroom facility for school-age children living on military installations. They followed the typical design of schools of the same era in the civilian community.

Evolution:

After the Civil War, the U.S. Congress provided for the establishment of schools at posts, garrisons, or permanent camps to instruct the enlisted men in "the common English branches of education, and especially in the history of the United States." As the nineteenth century progressed, there also was a growing concern for the education of school-age children living on post, particularly at isolated installations. Rooms in existing buildings were used as classrooms; the chapel often served as a classroom during the week. Children of families living on the post received instruction during the day; enlisted personnel received instruction in basic subjects after their duties were completed. The chaplain often served as the teacher for both the children and the troops.¹²

Not until the twentieth century did the Army start to provide separate buildings to serve as post school houses. In 1907, the Quartermaster Department issued a standard plan for a two-story post school house which included classroom facilities. Another plan was issued in 1913 for construction at Ft. Leavenworth, Kansas.¹³

During the inter-war period, the education of children of families living on the post and the instruction of troops in basic subjects were separated. The training and education of enlisted troops became an integral part of the military; formal education programs were developed and classroom buildings constructed. After the mid-1920s, more families began to live on post as both the size of garrisons and the number of enlisted men allowed to marry increased. Elementary schools for children living on post, though not a standard component of inter-war construction, were built on some installations that had large populations and were isolated from communities with civilian schools. Elementary schools on Army posts during this period generally were designed in period revival styles, either Georgian Revival or Spanish Mission Revival, depending on the region. They are similar to the designs for elementary schools in civilian communities.

Association:

¹² Risch, *Quartermaster Support for the Army*, 489.

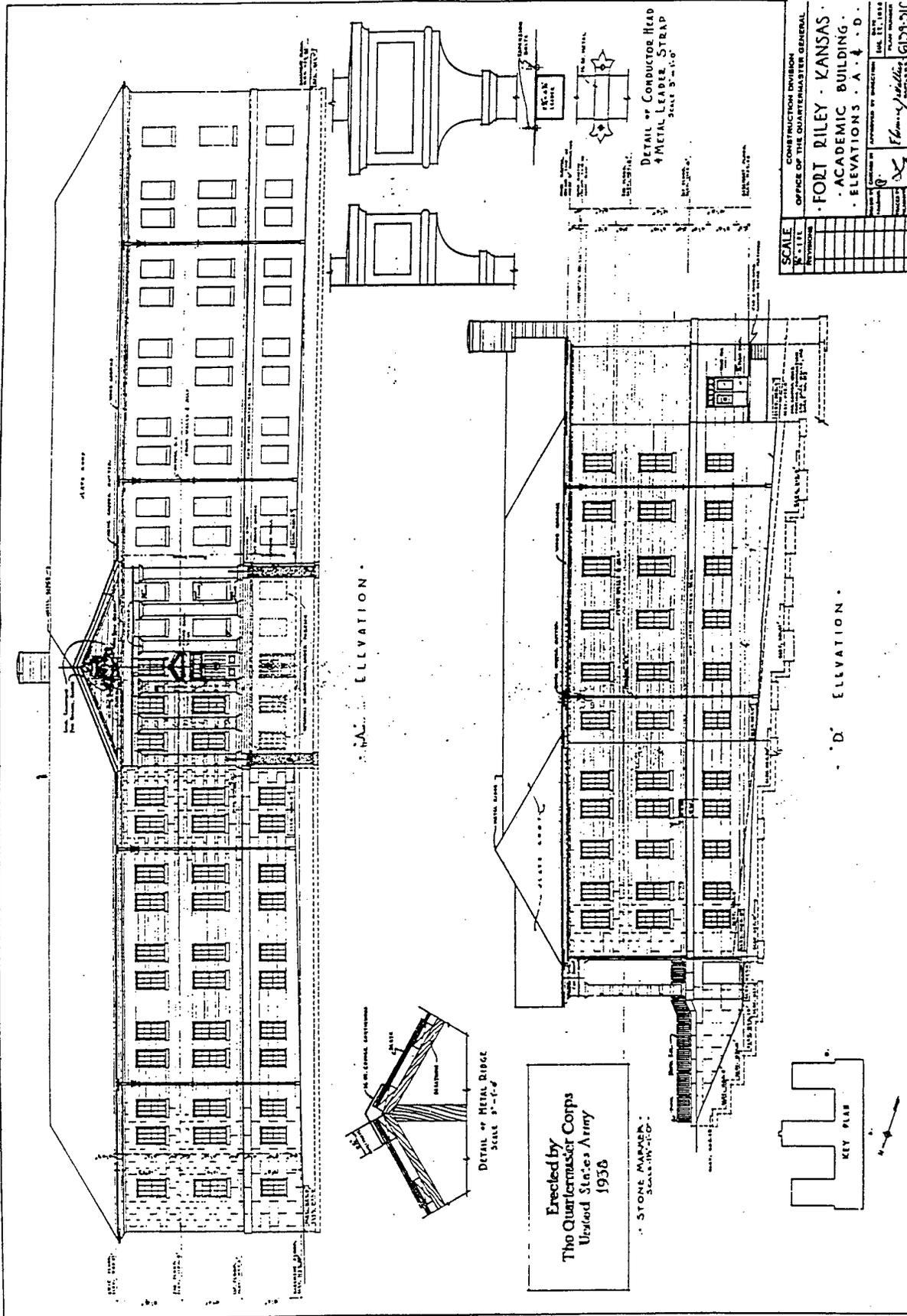
¹³ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings 1891-1918, Plans 187, 322.

Association:

Elementary school buildings are associated with the growth of social and cultural amenities provided to military personnel and the increased emphasis on providing services for the families of Army personnel after the turn of the century. Schools for children living on post grew out of informal arrangements during the nineteenth century; during the 1930s, some installations operated elementary schools similar to those found in civilian communities. Elementary schools are support buildings that may contribute to an historic district, but usually are not individually significant. Elementary schools generally reflect the architectural character of the installation design from the 1930s.

Integrity:

Elementary schools built before 1940 were designed and built for the individual installation. They possess the same character-defining features found in civilian schools of the same period: interior space defined by function -- classrooms, offices, hallways, and auditorium; architectural emphasis on the front facade; small scale; and, period revival designs. The integrity of these buildings should be evaluated in the context of their appearance during the period of significance of the building or of the historic district. To possess architectural integrity, elementary school buildings should retain most of their design, setting, and exterior materials from the period of significance. In cases of subsequent additions or renovations, the building may have integrity if it retains the majority of its design, including the building shape, massing, pattern of openings; materials; workmanship, including architectural details; location; and, setting.



CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

FORT RILEY - KANSAS
ACADEMIC BUILDING
ELEVATIONS - A - D

SCALE
AS SHOWN

APPROVED BY
Flannery
1936

DATE
MAY 11, 1936

PROJECT NUMBER
6151-21C

H0200_13.cit A-21-5

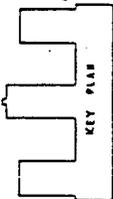
ELEVATION - A

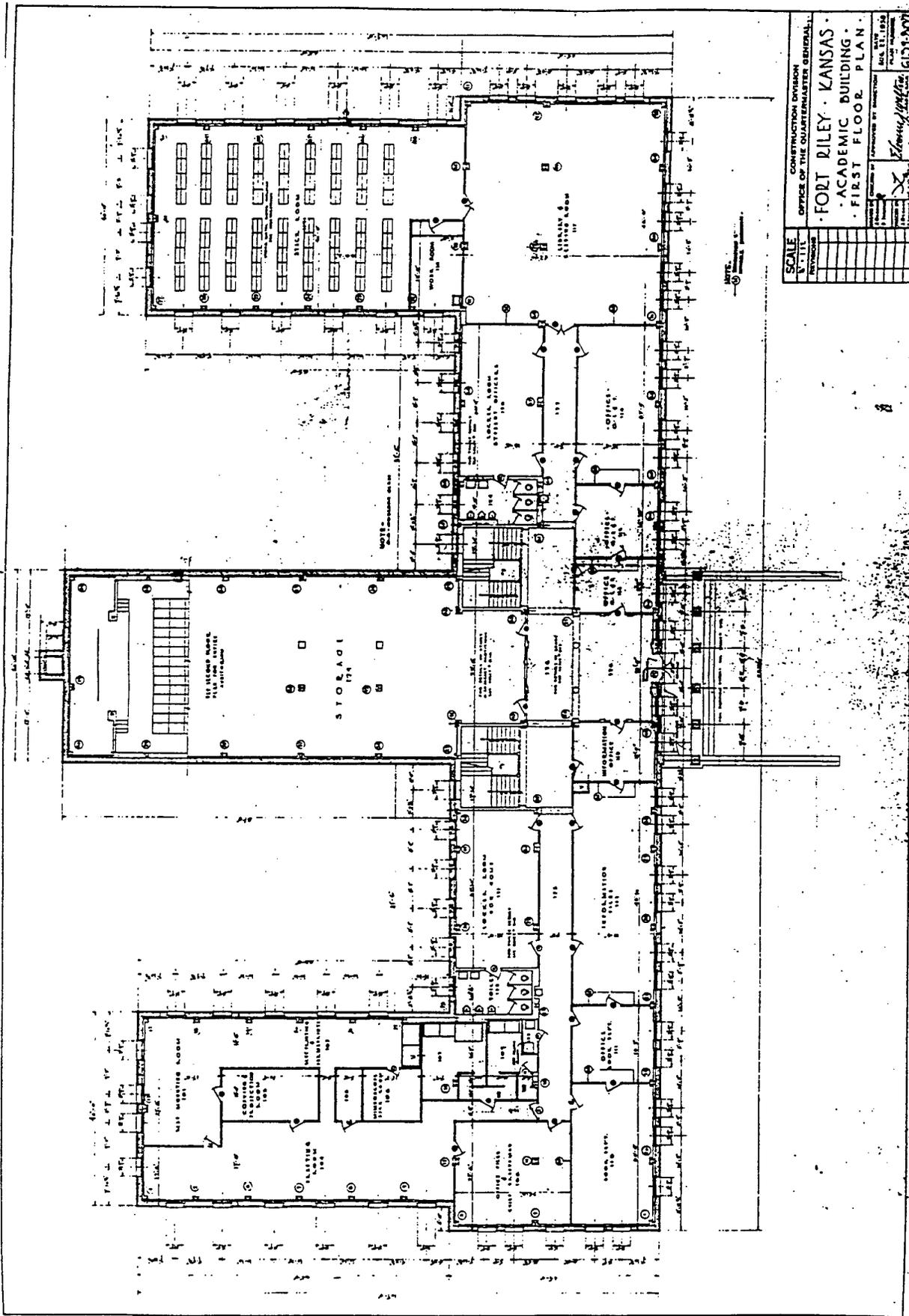
ELEVATION - D

DETAIL OF METAL DIAPHRAGM
SCALE 3/4" = 1'-0"

Erected by
The Quartermaster Corps
United States Army
1936

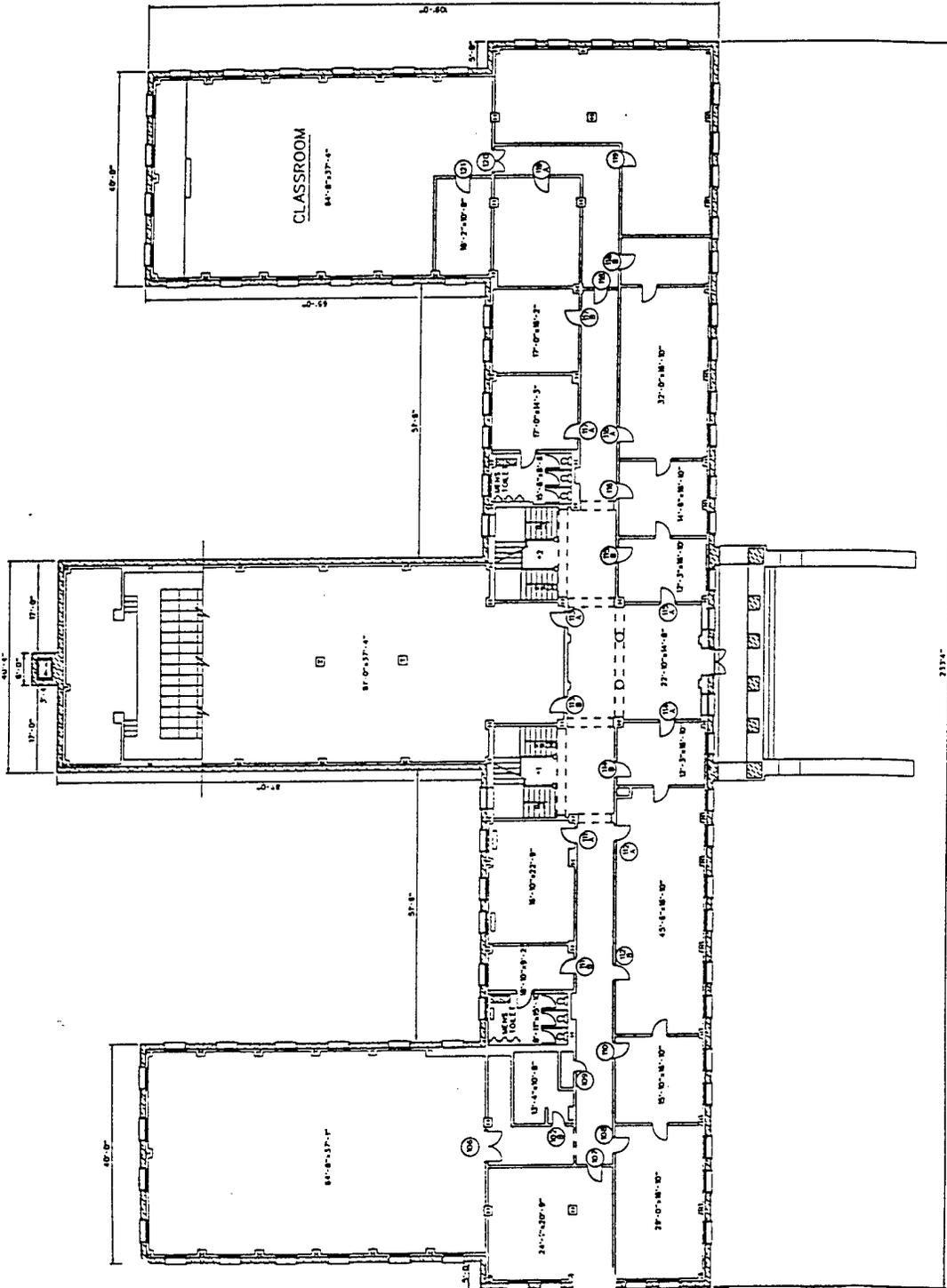
STONE MARKER
SCALE 1/4" = 1'-0"





SCALE
 1" = 10'-0"
 CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL
 FORT RILEY, KANSAS
 ACADEMIC BUILDING
 FIRST FLOOR PLAN
 DRAWN BY: *Henry [unclear]*
 CHECKED BY: *[unclear]*
 DATE: 10/10/41
 PROJECT NO. 6151307
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710 200-10-214
 10/10/41



| | | | |
|-----------------------------|---------------|---------------|-----------------|
| OFFICE OF THE POST ENGINEER | | | |
| DESIGNED BY: | TRACED BY: | SUBMITTED BY: | SANGAS |
| CHECKED BY: | SCALE: | SHEET: | 1 OF 1 |
| DATE: | NO. OF PAGES: | APPROVED BY: | |
| | | APPROVED BY: | |
| PATTON HALL BUILDING - 201 | | | PL. NO. 1000000 |
| | | | DATE: 11/1/88 |
| | | | BY: J. S. |
| | | | NO. 1000-50-40 |

Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 f: Exchange

Description:

The post exchange developed as an officially-sanctioned retail store to sell goods not issued to military personnel by the government. The post exchange is not funded through moneys appropriated for military expenditures. Between the late nineteenth century and 1940, the post exchange was generally a small, one-story building, constructed from a variety of materials. During the 1930s construction era, post exchanges became standard components of Army posts that were integrated into the master plan of installation layout. Their physical appearance often reflected the contemporary design of the installation.

Evolution:

During the nineteenth century, private individuals called sutlers were licensed to sell goods to troops. Sutlers usually were attached to a particular regiment and followed the unit, setting up a tent outside the soldiers' encampment. For permanent Army posts, the sutler built a store where he sold a variety of articles, including canned goods, clothing, and newspapers. In 1866, Congress abolished the office of sutler and mandated the Subsistence Department to furnish troops with items designated as necessary by the Inspectors-General of the Army. The supplies were priced at cost and purchased on credit if needed. Though the office of sutler was abolished, the practice of civilian retail commerce on Army posts was not. Civilian businessmen who performed this function were known as post traders. Post traders were appointed by the Commanding General of the Army.¹⁴

In 1880, officers at Vancouver Barracks, Oregon, conceived the idea of improving the soldiers' morale by opening a "canteen" where soldiers could eat, play games, and relax. As the canteen evolved, it began to stock beer and general merchandise; profits from the sale of these items went into a post morale fund. Gradually, canteens began to displace post traders. Canteens spread slowly throughout the Army during the 1880s and 1890s. By 1903, the Quartermaster Department issued a standardized plan for the post exchange. The first post exchanges incorporated many functions into one building, including a lunch room with kitchen, reading room, school room, assembly hall, and billiard room. In some cases, the post exchange was combined with a gymnasium; combination post exchanges-gymnasiums were built in 1905 at Ft. Monroe, Virginia, and Ft. D.A. Russell, Wyoming.¹⁵

During the 1930s, the Army constructed new installations, particularly air fields, that housed many more troops than the old pre-World War I permanent posts. During the inter-war period,

¹⁴ Michael E. Hucles, *From Haversack to Checkout Counter. A Brief History of the Army Commissary System*, Fort Lee, Virginia, U.S. Army Troop Support Agency, 62, 37, 54.

¹⁵ Edward Coffman, *The Old Army*, New York, Oxford University Press, 1986, 358-361; NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings 1891-1918, Plans 156, 155, and 154.

the Army also provided more recreational and social amenities to military personnel at installations. Separate buildings exclusively for use as post exchanges became typical features of the new installations built during the inter-war period. The Quartermaster Corps developed a standardized plan for post exchanges: a one-story building with two projecting wings connected by a colonnade. The detailing of post exchanges reflected the overall architectural character of the installation, generally Georgian Colonial Revival or Spanish Colonial Revival.

Association:

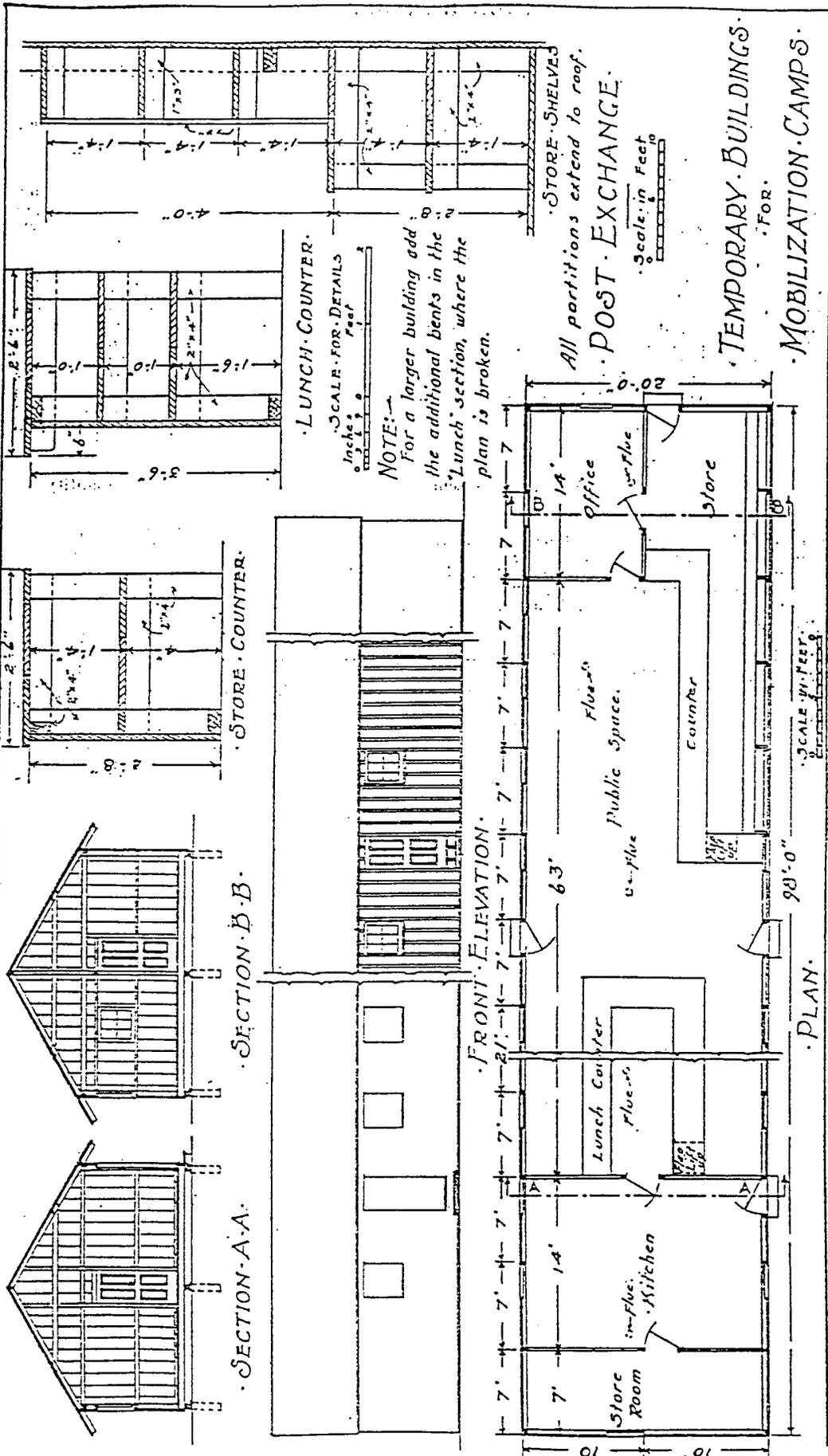
Exchanges are associated with the growth of social and cultural amenities provided to military personnel during the late nineteenth and early to mid-twentieth centuries. Exchanges did not become typical features of Army posts until after 1905. Exchanges usually are minor support buildings that do not possess individual significance, but can contribute to an installation historic district. They can represent the institutional development and the architectural character of the installation.

Integrity:

Pre-1940 exchanges that have continued to serve in that function are among the most heavily altered of installation buildings due to the vastly increased size of the exchange retail facilities. Early exchanges that were adapted for another use are more likely to retain their original design features. To possess architectural integrity, an exchange should retain most of its design features and exterior materials from the district's period of significance. The building may have integrity if it retains the majority of its design, including form, pattern of openings, porches, and arcades, materials, workmanship, and setting.



1905 Post Exchange at (Fort D.A. Russell)



APPENDIX NO. 10-15.

16-15

Category: RECREATION/SOCIAL/CULTURAL/RELIGION

Type 7 g: Theaters

Description:

Movie theaters usually were one-story, rectangular, front-gabled buildings with long, unfenestrated side walls. The focus of the design was the front facade and entrance, which often featured a projecting vestibule or display marquee. Movie theaters on military installations did not display the ornate ornament of the civilian movie palaces of the same era. Most military movie theaters built for that purpose were brick buildings with simplified Georgian Colonial Revival or Spanish Mission Revival details.

Evolution:

The Army began to build movie theaters at its installations as the movie industry evolved and became a popular form of entertainment. At first, older buildings were adapted for use as movie theaters. During the wave of new construction of the late 1920s and the 1930s, movie theaters became typical features of Army installations. Theaters were added to older installations and were standard components of new post plans. The construction of theaters reflected the Army's increasing concern with the well-being and morale of military personnel. Theaters were located within the heart of the cantonment area, near the barracks. The majority of theaters were constructed from similar Quartermaster standardized plans: gable-roofed, rectangular buildings, with the entrance on the gable end, sometimes with a projecting vestibule that housed the lobby and ticket office. The same basic plan was executed in both Georgian Colonial and Spanish Colonial Revival designs. A few individually-designed theaters also were built. The theater at Randolph AFB, Texas, was incorporated into the central administration building, while the theater at Ft. Sam Houston, Texas, is a prominent building with a corner tower that faces the central parade ground.

Association:

Theaters are associated with the growth of social and cultural amenities provided to military personnel during the late 1920s and 1930s and with the appearance of the movie industry. During the 1930s, movie theaters and athletic facilities provided the major sources of recreation and entertainment on installations. Often the theater reflects the military's adaptation of contemporary architectural styles to installation construction. They generally do not possess individual historic significance, but can be contributing buildings in an historic district.

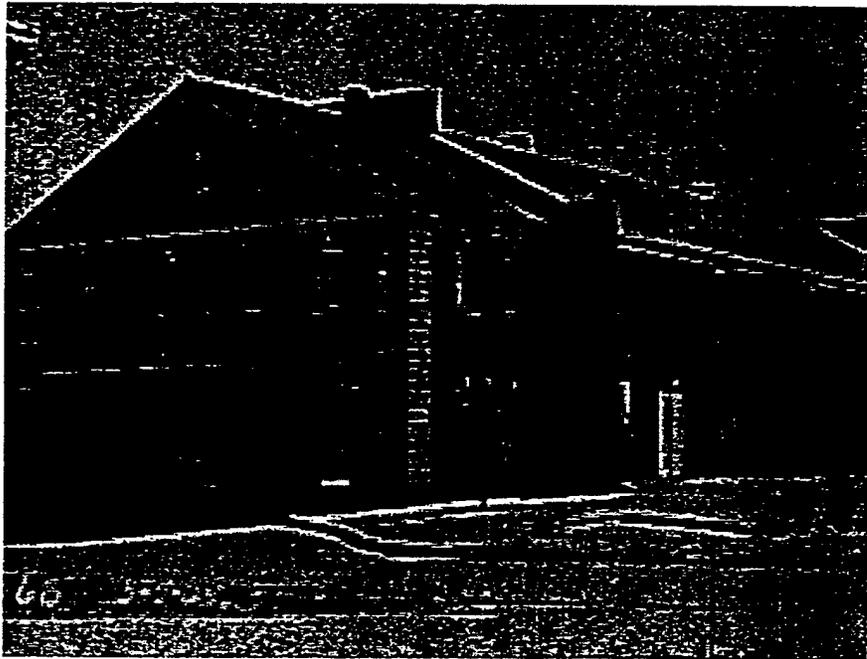
Integrity:

To possess integrity, theaters should retain most of their architectural ornamentation, design features, and exterior materials from their period of construction. Buildings originally built for other purposes and adapted for use as movie theaters may still possess integrity; the modifications may have acquired their own significance. Character-defining features of movie

theaters can include the overall shape of the building, ticket and lobby vestibules, blank side and rear facades, marquees, and ornament on the front facade. Theaters are not generally used currently for their original purpose and have been modified for new uses, including museums, storage facilities, or even incorporated into a hospital complex. The building may have integrity if it retains the majority of its design, materials, workmanship, and location.



1930 s Main Theater at Fort Sam Houston, TX



1934 Post Theater at Fort Lewis, WA

Category: RESEARCH AND DEVELOPMENT

Type 8 a: Laboratories/ Research and Testing Facilities

Description:

Laboratories and research buildings are specialized facilities constructed for specific purposes to research, test, or monitor a particular technology. Laboratories and research facilities usually were one-of-a-kind buildings unless that function was replicated at another installation. Buildings built for research functions were constructed of permanent materials and were of functional design.

Evolution:

The Army developed laboratories to support production facilities at arsenals, to assist experimentation with production processes, and to test production results. An early powder laboratory was constructed at Watervliet Arsenal, New York, in 1840. During the nineteenth century, the Army constructed few facilities specifically for testing or research. After the Army established its first smokeless powder plant at Picatinny Arsenal, New Jersey, in 1908, Picatinny became an important center for ammunition research. Many of the earliest buildings at Picatinny were destroyed in the 1926 explosion at the neighboring Navy Ammunition Depot at Lake Denmark. The installation was rebuilt during the late 1920s and the 1930s with a specific area, set apart from the production facilities, for administration and research buildings built of permanent brick construction.

As the Army expanded its interest in the application of various technologies to warfare, it established laboratories to promote and test direct applications of those various technologies. After the turn of the century, the Signal Corps constructed laboratories to conduct research in the fields of photography and communications. Photographic laboratories were constructed at posts where the Signal Corps experimented with the use of photography, particularly for reconnaissance activities. Fort Benning has such a hangar with a photograph laboratory. During the 1920s and 1930s, the Army constructed many air fields; photographic laboratories were common components of these air fields as the military experimented with aerial photographic reconnaissance. The standard photographic laboratories were one-story, brick buildings without architectural ornament.

The Signal Corps also experimented with communications technology. During World War I, it established a radio laboratory at Camp Monmouth, New Jersey, in temporary buildings. In 1935, the Signal Corps constructed a permanent communications laboratory at Ft. Monmouth. Designed by Rodgers and Poor, architects from New York City, the laboratory is a two-story, L-shaped building consisting of two parts: an administration and laboratory section and a shop section at the rear.

During the late nineteenth and the twentieth centuries, the Army developed proving grounds to test weapons and ammunition. The Army established Sandy Hook Proving Ground in New

Jersey in 1874. The Army established Aberdeen Proving Ground, Maryland, in 1918 when it outgrew the Sandy Hook installation. At Aberdeen, the Army constructed specialized permanent buildings to prepare proofing tests, monitor firing methods, and calculate projectile trajectories and velocity. These utilitarian buildings were constructed to shelter and protect personnel performing proof testing.

In general, between 1800 and 1940, the Army required a limited number of laboratory and specialized test facilities. In the years preceding and during World War II, the number of laboratories and test facilities expanded to meet the increased schedules of production, proofing, testing, and technological advances.

Army Air Corps

The Army Air Corps developed research and testing facilities in response to technological advances in aircraft. Langley AFB, Virginia, originally was established in 1917 as a joint National Advisory Committee for Aeronautics (NACA), Army, and Navy aviation experimentation center. In 1919, the Army Aeronautical Laboratory opened. Other specialized research facilities constructed at Langley AFB included wind tunnels constructed in 1921 and 1923 and an NACA laboratory. The construction at Langley was designed specifically for the facility by architect Albert Kahn.

The Army expanded its aviation experimental facilities after World War I. The Army Air Corps moved its testing and experimental activities to temporary facilities at McCook Field, Ohio, in 1918. In 1927, Wright Field, now Wright-Patterson AFB, Ohio, was established as the Army's primary experimental aircraft research facility. During the 1920s and 1930s, the Army Air Corps constructed a variety of individual laboratory and test facilities at Wright Field. These facilities included a radio laboratory to improve ground to air communication, a materials laboratory to test new aircraft materials, an armament laboratory to test the effects of ammunition discharges on aircraft, a propeller laboratory to test the speed and strength of aircraft propellers, and a wind tunnel to test airplane designs. All of these buildings were utilitarian designs engineered to meet special needs. These buildings often represented the precepts of contemporary industrial architecture: use of concrete and steel, and an emphasis on functional designs.¹

Association:

Research and development buildings, including laboratories and test facilities, are associated with themes of technology, transportation, and communications. These facilities are associated with the development of new technologies, the military application of technology, and scientific research. They may be associated with specific technological breakthroughs or with the general development of military technology over time. Research and development facilities often were buildings designed to meet specific research or testing purposes. In other cases, the buildings associated with research and development may have been simply structural shells or office

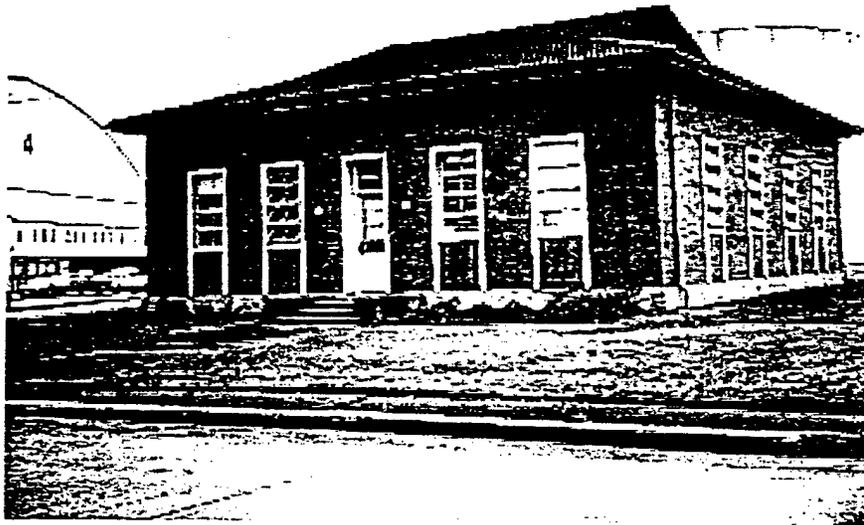
¹ Lois E. Walker and Shelby E. Wickam, *From Huffman Prairie to the Moon*, Washington, DC, Government Printing Office, 1984, 122-126.

buildings that housed research activities, without any relationship between the building design and the activity within the building. Research facilities may have testing ranges and firing ranges that also were associated with important weapons development; these areas should be considered for inclusion within historic districts along with associated buildings and structures.

Research and testing facilities may possess historic significance and meet the criteria for listing on the National Register of Historic Places, either as individual buildings or, as districts. Research and development facilities may represent important elements in a research complex or production facility and contribute to an historic district.

Integrity:

To possess the integrity necessary to convey significance, research and development facilities should retain most of their original design, materials, workmanship, and setting from their periods of significance. Character-defining features of research and development facilities may include their overall shape, their relationship to other buildings in the complex, materials, features specific to the research conducted at the facility, and overall pattern of exterior windows and doors. Buildings that housed research and development activities often were altered to accommodate new research missions or technological advances. Typical alterations include replacement of original testing equipment, alterations to window and door openings, and enlargement of interior -space through building additions. In cases of subsequent additions or renovations, the building may have integrity if it retains the majority of its character-defining features, particularly any features specific to the research or testing activity, its setting, basic form, materials, and pattern of openings.



1939 Photographic Laboratory Building at McChord AFB, WA

Category: RESIDENTIAL

Type 9 a-1: Institutional Housing: Bachelor Officers Quarters (BOQs)/Nurses Quarters

Description:

The military constructed bachelor officers quarters (BOQs) to house unmarried officers or those officers stationed at an installation without their families. Bachelor officers quarters usually were rectangular, two-story structures that contained living quarters and mess facilities for officers. Bachelor officers quarters were standard components of Army permanent cantonments. They usually were located near the parade ground or near the officer family housing. During the last quarter of the nineteenth century, the military designed bachelor officers quarters using Victorian architectural motifs. During the early twentieth century, bachelor officers quarters were constructed to reflect the Georgian Revival and the Spanish Colonial Revival styles. The evolution of quarters design illustrates the military's interest in and adaptation of contemporary civilian architectural trends to the military's construction program.

Evolution:

The Army has the longest history of providing housing for military personnel because of its history of maintaining permanent garrisons. The strict hierarchical nature of rank required separate quarters for officers and enlisted men. During the early nineteenth century, many officers were either unmarried or lived without their families on posts, due to harsh conditions. Freestanding family housing was provided for the commander, but not for most of the other officers. The early officers housing resembled small barracks, but contained private quarters for each officer. Examples of this type of housing survive at Carlisle Barracks, Pennsylvania, and Ft. Monroe, Virginia. The Carlisle Barracks officers housing, built during the 1830s and rebuilt after the Civil War, was a two-story stone building with a two-story verandah that served as exterior corridors with entries into each room. At Ft. Monroe, two sets of quarters known as the "Tuilleries," built in 1823, originally housed eight officers each; these officers were allotted a bedroom and sitting room.

Bachelor officers quarters evolved as a distinct building on Army posts after the Army began to construct more duplex and single-family officers quarters. When the Army consolidated its troops into larger, permanent posts during the 1880s and 1890s, the Army built rows of officers family housing and usually one bachelor officers quarters at each permanent post. In 1891, the Quartermaster Department issued a standardized plan for a BOQ. The typical BOQ contained sleeping rooms, sitting rooms, dining room, reading room, kitchen, and rooms for recreation including billiards and cards. Quartermaster plans illustrate the standard plan ornamented with Victorian decoration.¹ During the first decade of the twentieth century, the Quartermaster adapted the Colonial Revival style to BOQs, as it did with other building types.

¹ National Archives and Records Administration, Cartographic Branch, Record Group 77, Standard Plans of Army Post Buildings, 1891-1918, P.I. NM-1 9, Entry 411, Plan 25.

Bachelor officers quarters constructed during the 1930s reflected the prevailing architectural styles used by the Quartermaster Corps: the Georgian Colonial Revival and the Spanish/Mission Colonial Revival styles. At a few installations, BOQs were designed in special regional architectural styles, such as the French Provincial Colonial styles at Barksdale AFB, Louisiana, Maxwell AFB, Alabama, or Ft. Benning, Georgia.

Association:

Bachelor officers quarters are associated with the evolution of living standards for military personnel and with the mission of the installation personnel who were housed in the quarters. The buildings reflect the history and status of the military at the time of their construction. The design of bachelor officers quarters often reflects the influence of civilian architecture on military construction and the military's self-perception of its image and presence. Bachelor officers quarters usually are part of a cantonment or a housing area and can be contributing elements in an historic district. Bachelor officers quarters usually were built as part of a larger construction program of installation buildings with similar architecture.

Integrity:

To possess integrity, bachelor officers quarters should retain their setting and location, and the majority of their design, materials, workmanship, association, and feeling from their period of significance. Buildings originally built as bachelor officers quarters now often serve as visiting officers quarters or as office buildings. In some case, porches have been removed or enclosed; window and door openings, modified. In cases of subsequent additions or renovations, bachelor officer quarters may possess integrity if they retain the majority of their shape, massing, materials, pattern of openings, and architectural features. Additions subsequent to the date of construction may have acquired their own significance and do not necessarily detract from the integrity of building if they were added during the building or historic districts' period of significance.



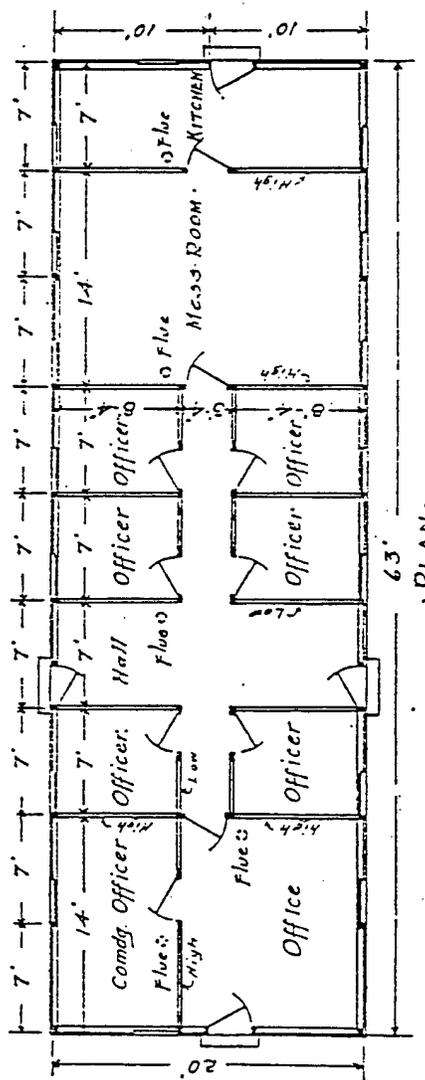
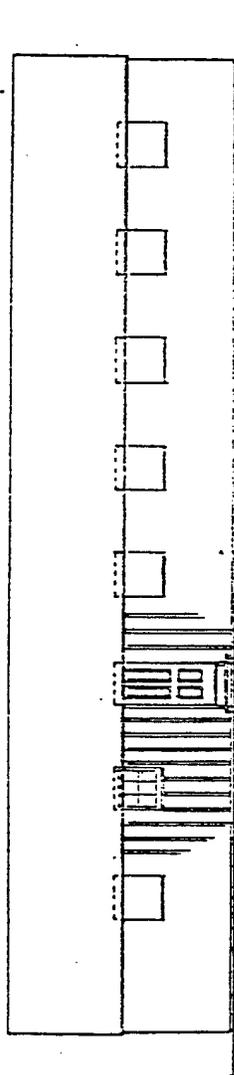
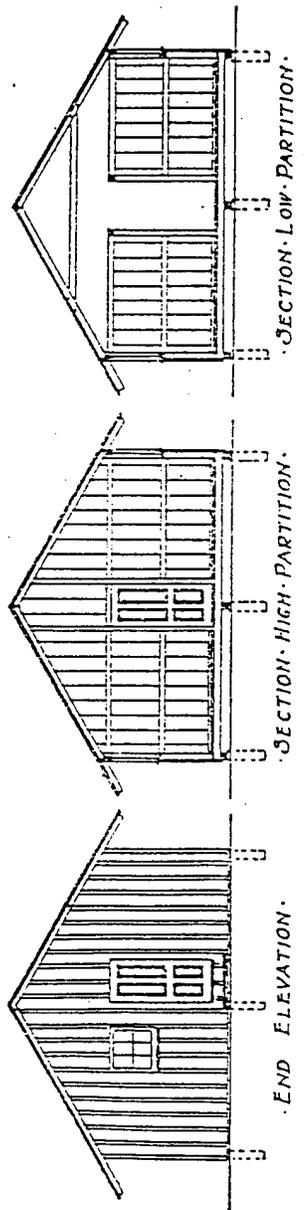
1934 Bachelor Officers Quarters at Fort Lewis, WA

SCHEDULE OF QUARTERS.

| Length of building | No. of Bents | Number of Officers | | | Total |
|--------------------|--------------|----------------------|--------------|--------|-------|
| | | 2 Officers to a bent | Bent Officer | Comdg. | |
| 63' | 9 | 3 | 6 | 1 | 7 |
| 70' | 10 | 4 | 8 | 1 | 9 |
| 77' | 11 | 5 | 10 | 1 | 11 |
| 84' | 12 | 6 | 12 | 1 | 13 |
| 91' | 13 | 7 | 14 | 1 | 15 |
| 98' | 14 | 8 | 16 | 1 | 17 |
| 103' | 15 | 9 | 18 | 1 | 19 |
| 112' | 16 | 10 | 20 | 1 | 21 |

NOTE:—

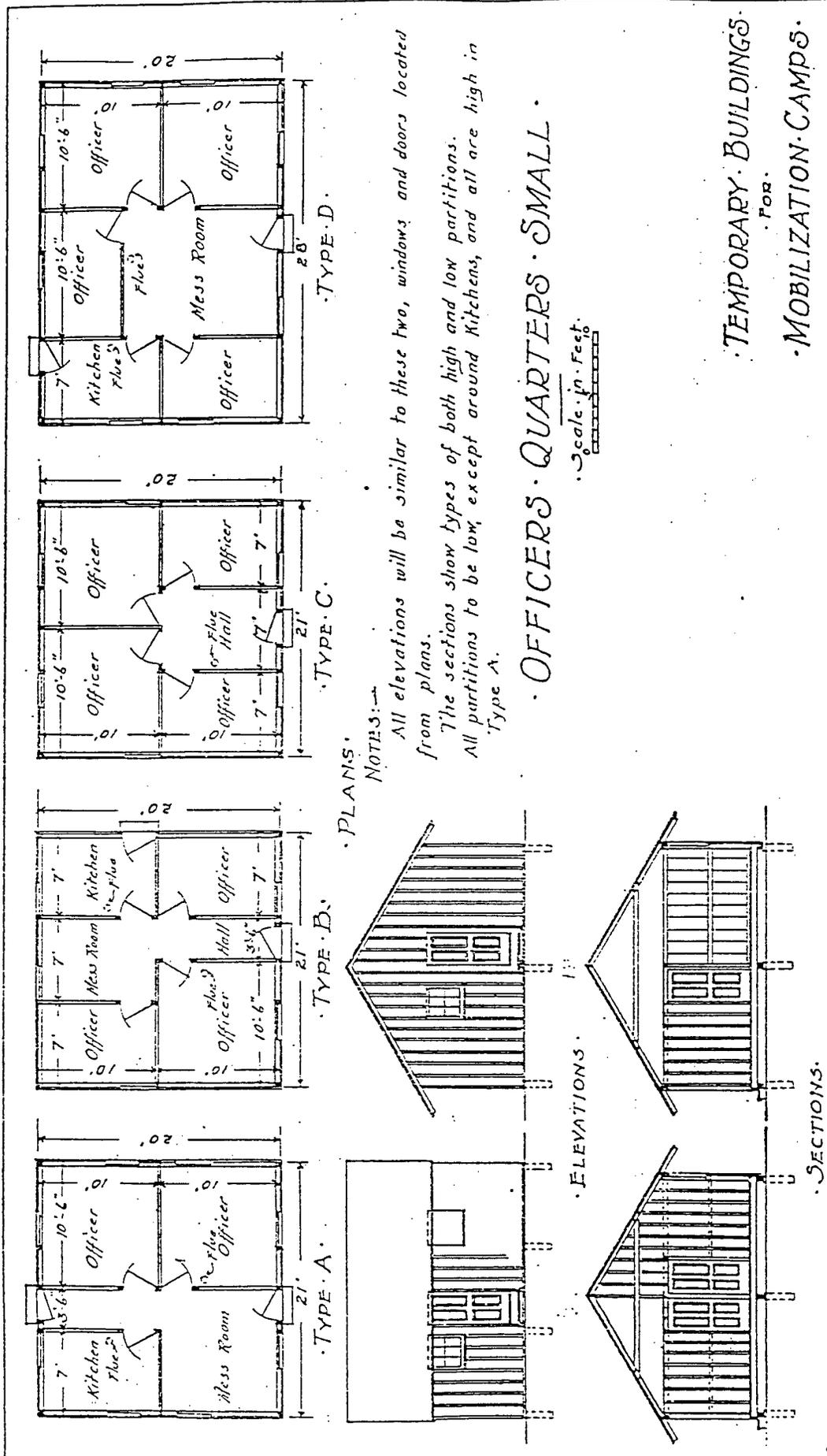
For each 2 additional officers add one 7'-0" bent, keeping the hall bent centrally located. One officer to each room marked "Officer."



OFFICERS' QUARTERS.
LARGE.

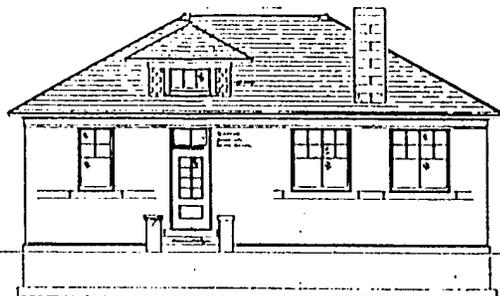
Scale in Feet.
0 5 10

TEMPORARY BUILDINGS.
FOR
MOBILIZATION CAMPS.

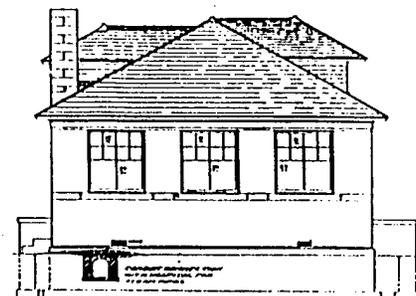




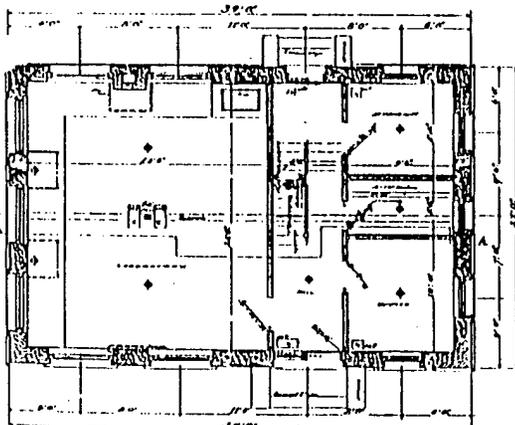
WEST ELEVATION



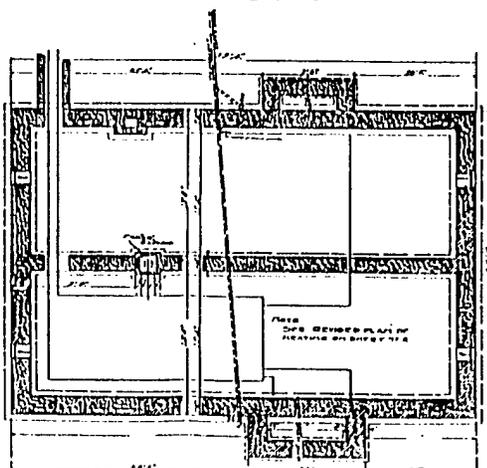
EAST ELEVATION



NORTH ELEVATION

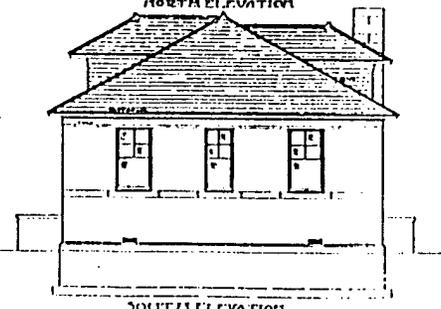


FLOOR PLAN



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



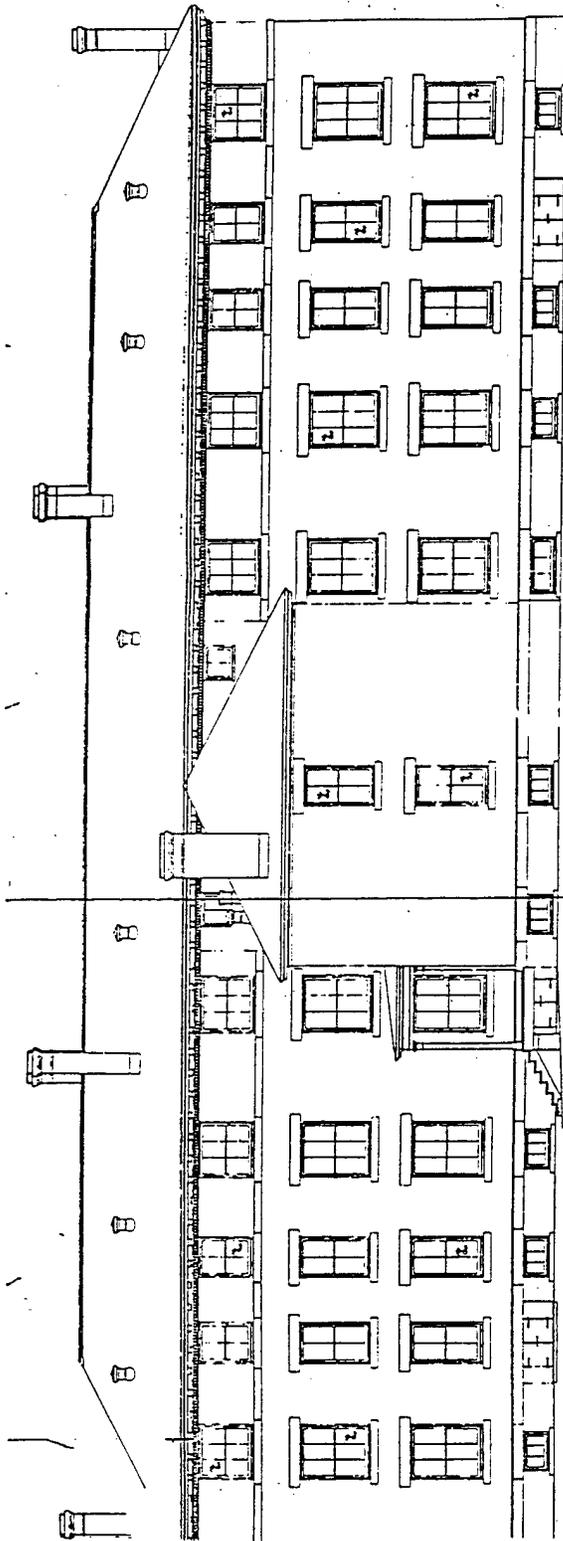
SOUTH ELEVATION

LABORATORY BUILDING
FOR THE
VETERINARY HOSPITAL
FORT DILEY, KAM.

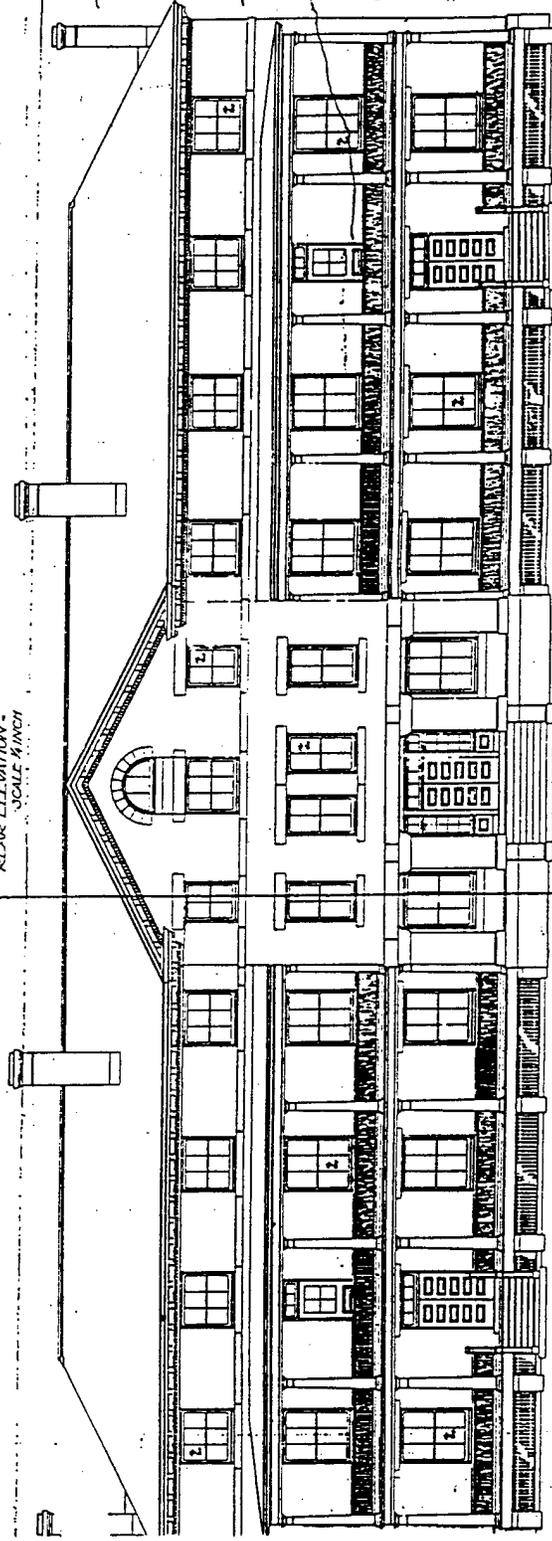
OFFICE OF
COOPERATIVE QUARTERMASTER
FORT DILEY, KAM.
MARCH, 1907
TWO SHEETS
SHEET NO. 1
A. W. N. V. A. R.

1114

NO 778. 01. c11

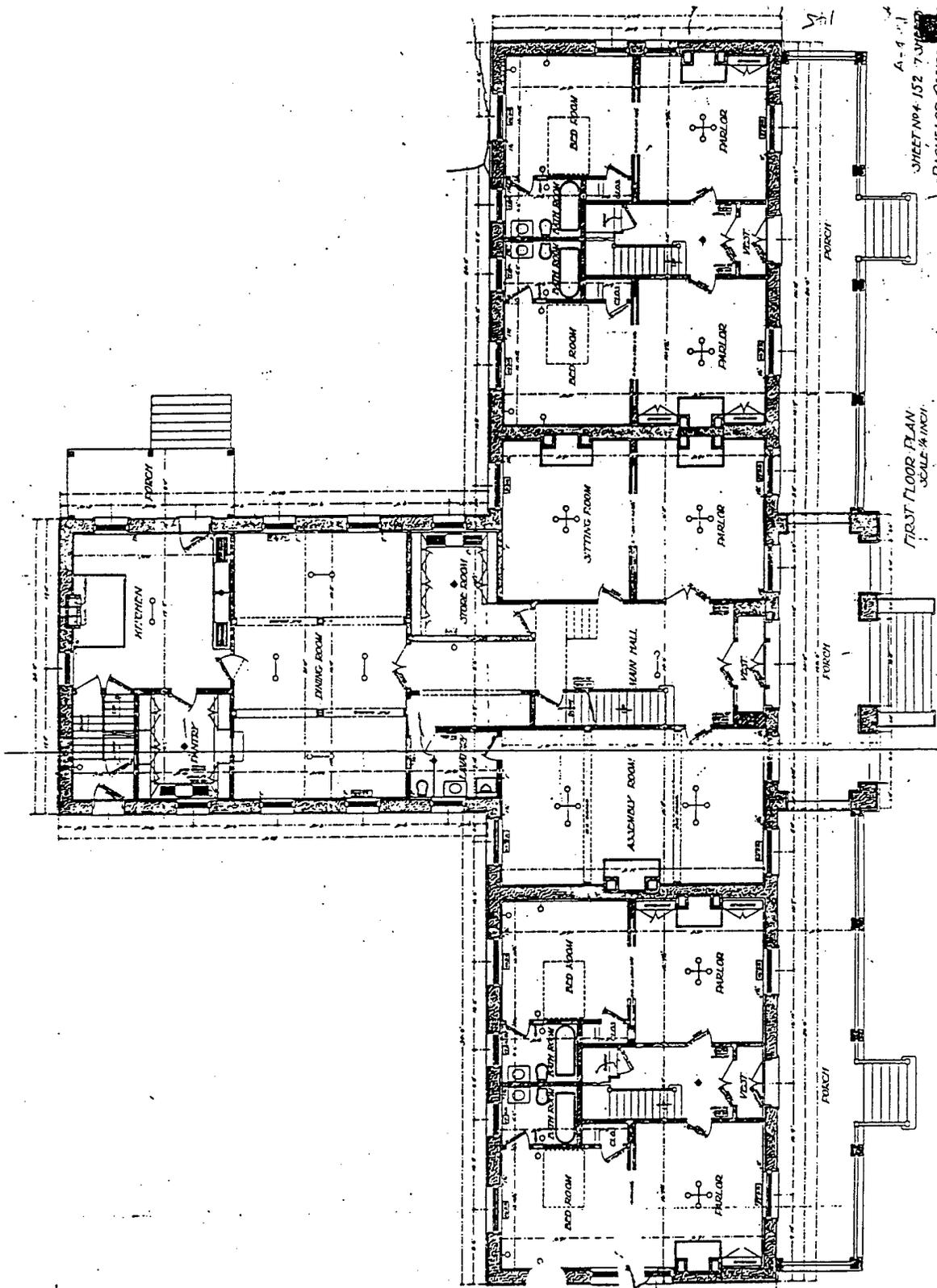


REAR ELEVATION -
SCALE: 1/4" = 1'-0"



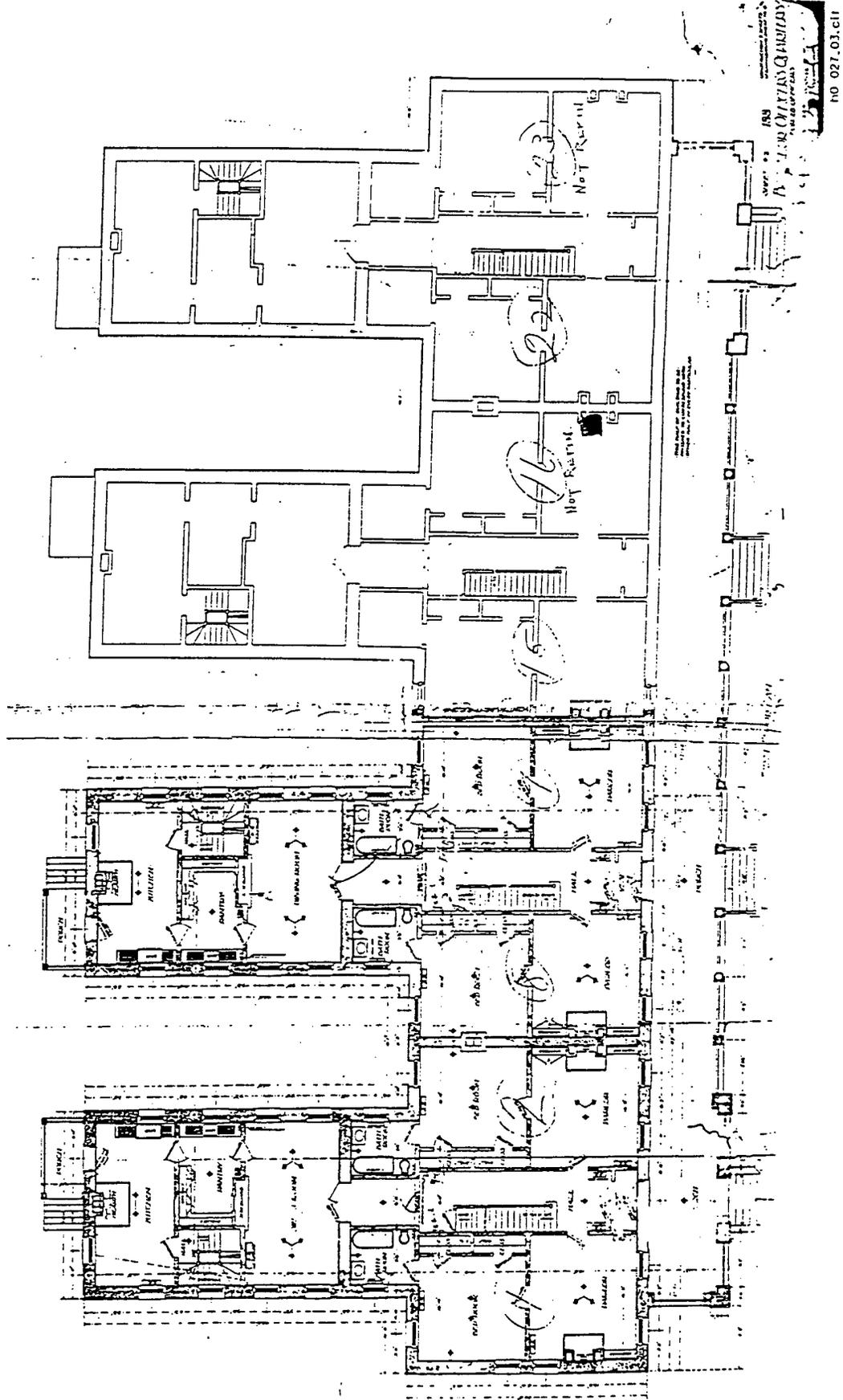
FRONT ELEVATION -
SCALE: 1/4" = 1'-0"

561#
SHEET NO. 152 - SHEETS -
BACHELOR OFFICERS' QUARTERS
COMCO. 25 FEBRUARY 1911



A-9-1
 SHEET NO. 4-152 7-31-1910
 BACHELOR OFFICE
 V.C.O. E. P.S. 1910

FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"



Category: RESIDENTIAL

Type 9 a-2: Institutional Housing: Barracks/Dormitories/Civilian Housing

Description:

The military constructed barracks to house units of enlisted personnel. Barracks are found on all installations where permanent military enlisted personnel resided. Barracks are located in prominent sites, generally in groups facing the parade ground or drill field. Barracks were usually one- to three-story, rectangular buildings, with the primary entrance on the wider elevation. Verandahs were a common feature until the 1930s.

Permanent barracks are a major building type on many installations. Their architecture reflects their period of construction. Barracks exhibited utilitarian designs for most of the nineteenth century; however, during the last quarter of the nineteenth century, the military designed barracks using Victorian architectural motifs. In subsequent years, various period revival styles of architecture were employed in barracks design. The size of the military unit originally intended to reside in the barracks determined the building size. The average size of barracks and dormitories increased over time, from small buildings that housed a dozen men, to buildings that housed hundreds; the number of barracks also increased, reflecting the growing size of the standing military.

Evolution:

The Army constructed few permanent barracks before the Civil War due to the small number of permanent garrisons. Most early-nineteenth century Army posts were either coastal fortifications or temporary frontier garrisons. The troops stationed at the masonry coastal forts of the Third System (1814-1861) were housed in the damp, stone casements of the fortifications, eliminating the need for separate barracks buildings. In a few instances, the Army built permanent garrisons that required barracks. The officers quarters at Cadisle Barracks, Pennsylvania (constructed ca. 1838; burned; rebuilt 1863-1864), typifies the appearance of these early buildings: a narrow, rectangular, two-story, unornamented brick building with a two-story verandah along the front facade. The Army also constructed permanent barracks at Plattsburgh Barracks, New York, in 1838; two, two-story, rectangular, stone buildings with verandahs were built. Buildings of this type were constructed for both enlisted and officer housing.

Most western forts had temporary barracks constructed by troop labor from materials at hand. The Army's mid nineteenth-century policy of establishing and abandoning western posts as needed inhibited the construction of permanent barracks. The typical barracks housed one company of men and contained sleeping quarters, a kitchen, and a mess room; it usually was a one-story, narrow, rectangular building with a porch. A barracks design of this type appeared in the unofficial 1860 Army regulations and is exemplified by examples of barracks identified at

early frontier posts constructed before and after the Civil War.² The basic building type used for barracks easily was adapted for use as a headquarters building or hospital. The 1870 headquarters building at Ft. Sill, Oklahoma, is an example of the basic barracks design adapted for use as the post headquarters.

During the late nineteenth century, the U.S. Army had the reputation for being the best fed, but worst housed Army in the world.³ Efforts to improve living accommodations began after the Civil War, but were limited by budgetary constraints. In 1872, Quartermaster General Montgomery C. Meigs issued standardized plans for a one-company barracks.⁴ The plan depicted a two-story building: the first floor contained day room, library, clothes washroom, kitchen, mess room, and offices; the second floor, sleeping quarters. Meigs' plan offered better accommodations than in the past, as the Army tried to make quarters, reading rooms, and mess rooms more attractive to the soldier than the sutler's shop and the groggery.⁵

During the 1880s and 1890s, the Army consolidated its troops into larger, permanent posts. The Army constructed its new posts with more attention to planning and to contemporary architectural detailing. The barracks, traditionally located along the edge of the central parade ground, became important elements in the installation plan and often were impressive buildings that defined the architectural character of the installation. During this era, the Army built larger, two-company barracks. They typically had a central block flanked by wings with two-tiered porches. Porches served as corridors and provided ventilation. A second form of two-company barracks was created through connecting two T-shaped, one-company barracks to form an H-shaped building. On installations that served more than one branch of the Army, the barracks were designated as cavalry, artillery, or infantry barracks.

During the late nineteenth and early twentieth centuries, the two-company barrack remained the typical barracks design. Only in a few instances did the Army experiment with larger barracks. Often the Constructing Quartermaster developed the plan for larger barracks by incorporating the several one-company barracks plans under one roof, with partitions separating the company quarters. For example, the Army constructed multiple-company barracks at Ft. Crook, Nebraska, and at Ft. Sam Houston, Texas. Ft. Monroe, Virginia, also had a barracks, since demolished, with a central block and long wings that were divided into company units by interior partitions.

The Army adapted architectural fashions to the basic form of the barracks, depending on the popular fashion of the era. During the 1880s and 1890s, the detailing of barracks incorporated simplified versions of features from contemporary architectural styles, such as the Romanesque and Queen Anne. Between 1900 and 1917, the Army applied Colonial Revival architectural

² War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*, Washington, D.C., George W. Bowman, 1861, 2.

³ War Department, Surgeon General's Office, *A Report on Barracks and Hospitals with Descriptions of Military Posts (Circular 4)*, Washington, D.C.: Government Printing Office, 1870, xxxiii.

⁴ War Department, *Annual Report of the Quartermaster-General*, Washington, D.C.: Government Printing Office, 1872, plate 3.

⁵ Erna Risch, *Quartermaster Support of the Army: A History of the Corps 1775-1939*, Washington, D.C., Government Printing Office, 1962. Reprinted 1989, 484-485.

motifs to the basic barracks designs of the previous century. In 1911, the Quartermaster Department issued barracks plans using Spanish Colonial Revival motifs; these were built at the Presidio of San Francisco, California, Ft. Sill, Oklahoma, and Ft. Missoula, Montana.⁶

During the Spanish-American War, the Army established a series of encampments across the country to hold troops waiting for transport to Cuba. The hastily constructed tent camps lacked adequate sanitation facilities and fostered the spread of disease among the troops. The Army, determined not to repeat that disastrous experience, developed standardized plans for mobilization camps. In 1914, the Construction Division of the Quartermaster Corps produced a set of drawings for mobilization camp buildings, usually called the 600 series of drawings. The plans depicted one-story, rectangular, light-weight wood frame, barracks based on 20 ft. by 7 ft. modules. The vast number of troops mobilized during World War I overwhelmed the existing supply of Army housing, and the Construction Division put the 600 series drawings to use in the construction of large training camps.⁷

After World War I, military spending slowed dramatically. Thousands of troops continued to live in World War I temporary barracks, which were deteriorating rapidly. Public Law 45, enacted in 1926, authorized the War Department to sell excess property and to use the funds to improve military posts. The War Department singled out barracks as one of the primary building types to receive construction funds. The law was enacted primarily to improve living and medical conditions for enlisted personnel. The Construction Service of the Quartermaster Corps designed the new installations constructed under this act as cohesive facilities; the buildings were placed in ordered relationships within a master plan and shared a unifying architectural treatment. Barracks buildings were a major element within the installation plans and were located in distinct enlisted housing areas.

Barracks constructed during the 1930s reflected the prevailing architectural styles used by the Quartermaster Corps: the Georgian Colonial Revival and the Spanish or Mission Colonial Revival styles. At a few installations, barracks were designed in special regional architectural styles, such as the French Provincial Colonial at Barksdale AFB, Louisiana. The standard barracks design remained a two- or three-story, rectangular building, but was larger than ever before. Between 1928 and 1930, the Army constructed its first regimental barracks, designed by the architectural firm of McKim, Mead, and White, at Governors Island, New York. Other equally large, and larger barracks were built later at Ft. Benning, Georgia, and McChord AFB, near Tacoma, Washington.

Barracks design during the 1930s was not as standardized as officer housing; the basic form was modified to suit the needs of particular installations. One universal design change, however, was the elimination of porches along front facades. This left the main front facade as a flat surface; architectural ornamentation such as stone surrounds around doorways, corner quoins, and cornice moldings relieved the blank facades. Porches were incorporated into the rear of the buildings.

⁶ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plans 257, 298.

⁷ John S. Garner, *World War II Temporary Military Buildings*, Champaign, Illinois: U.S. Army Construction Engineering Research Laboratory, 1993, 22-25.

The Army also constructed barracks for specialized troops. The most widespread specialized barracks was the band barracks. The band barracks housed a fewer number of men and included music practice rooms and special storage rooms for musical instruments. The band barracks at the infantry Post at Ft. Sam Houston, Texas, included a tower at its gable end; musicians played from the roof of the tower. Between 1880 and 1890, the Army constructed band barracks at many Army installations for regimental and post bands. The Army did not build band barracks during the 1930s construction era.

In addition to band barracks, the Army sometimes constructed barracks for specific Army detachments. The Quartermaster Department might have a separate barracks for its own personnel, near the Quartermaster warehouse area; barracks for medical corps soldiers sometimes were located near the hospital. These specialized barracks were constructed only at large posts, and typically were smaller than standard troop barracks.

The Army, upon occasion, constructed barrack-type housing for civilian employees. The Army provided civilian housing only at isolated posts where no local accommodations were available for needed civilian employees.

Association:

Barracks are a major building type on many military installations. They provided housing for enlisted personnel and are associated with the evolution of living standards for military personnel. The construction of barracks directly reflects the chronological history and status of the military during their period of construction. Barracks are integral components of Army posts and airfields and illustrate the growth in the size of permanent garrisons. Barracks design often reflects the influence of civilian architecture and the military's self-perception.

Barracks buildings are often major elements in an installation plan that establish the character of an area and define the edge of a significant open space, such as a parade ground or drill field. Barracks may possess individual architectural significance because of their design or their ability to represent a type of construction. In many cases, barracks will be major contributing elements to an installation historic district.

Integrity:

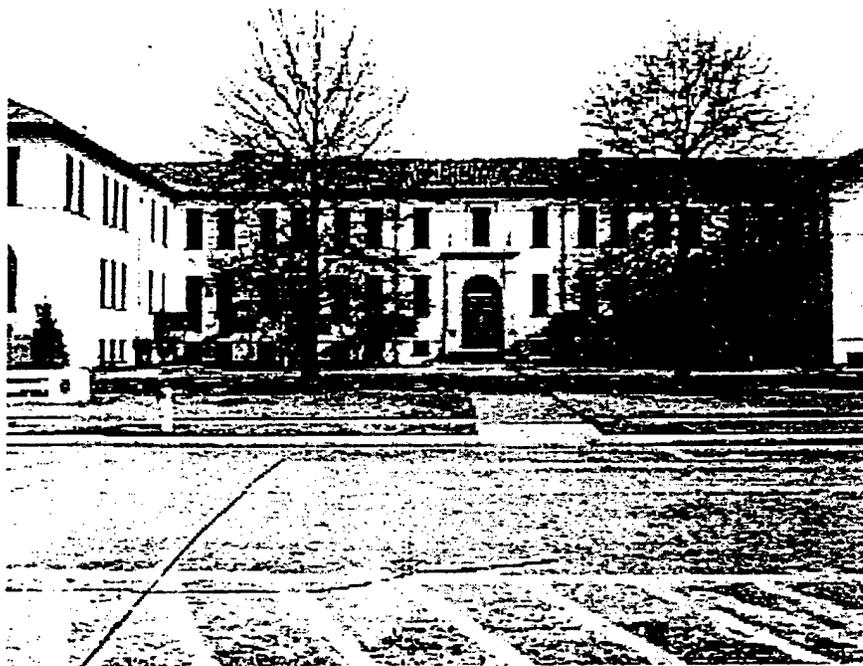
To possess integrity, barracks should retain most of their overall exterior form, architectural ornamentation, and construction materials from their periods of significance. Many pre-1940 barracks have been converted to office use. Porches may have been removed or enclosed; window, door, and roof materials often have been modified. Where subsequent additions or renovations have occurred, barracks still may have integrity if they retain the majority of their character-defining features, including setting, overall shape, pattern of openings, materials, and architectural details. In many cases, even with major modification, a barracks complex will contribute to the character of an historic district.



1938-40 Barracks at Fort Sill, OK



1912 Infantry Barracks at (Fort D.A. Russell) F.E. Warren AFB, Wyoming



1930's Infantry Barracks at Maxell AFB, AL

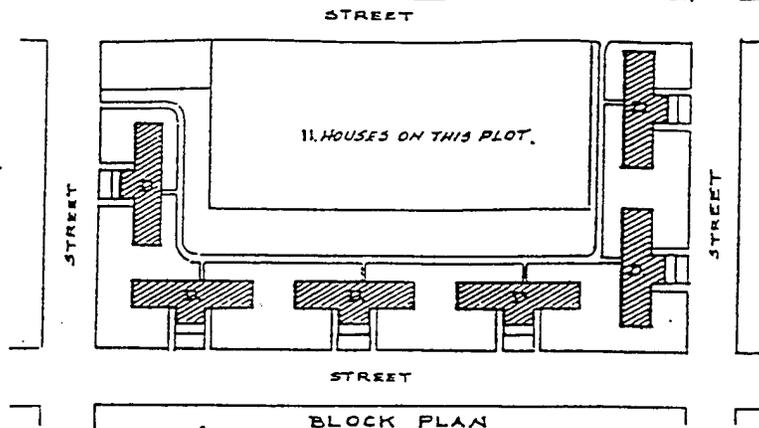


1909 Infantry Barracks at (Fort D.A. Russell) F.E. Warren AFB, Wyoming

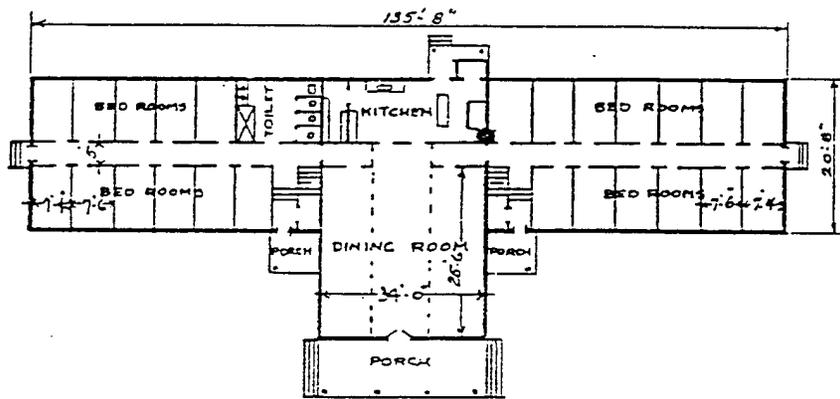


1931 Detachment Barracks at (Fort D.A. Russell) F.E. Warren AFB,
Wyoming

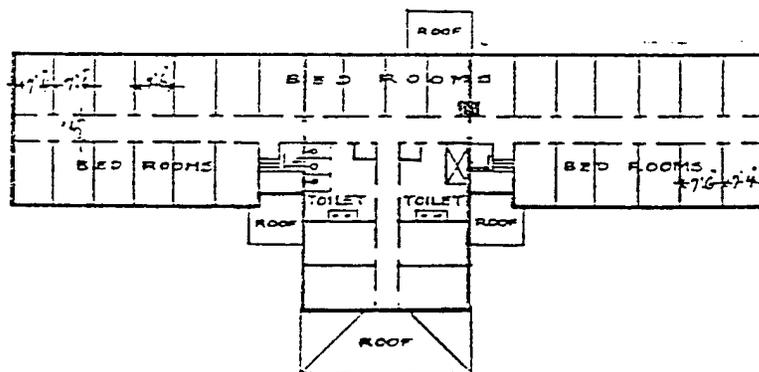
D-DORMITORY



BLOCK PLAN



FIRST FLOOR PLAN
DORMITORY



SECOND FLOOR PLAN
DORMITORY

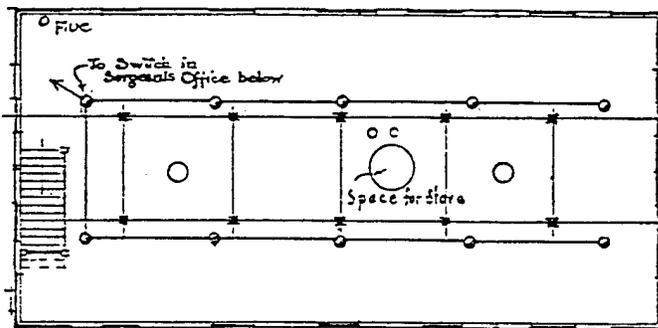
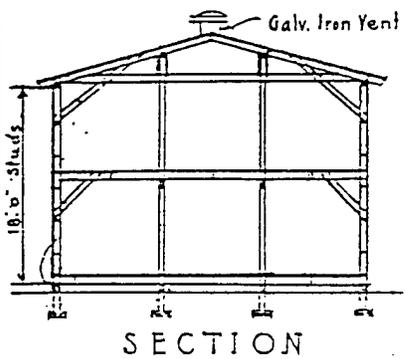
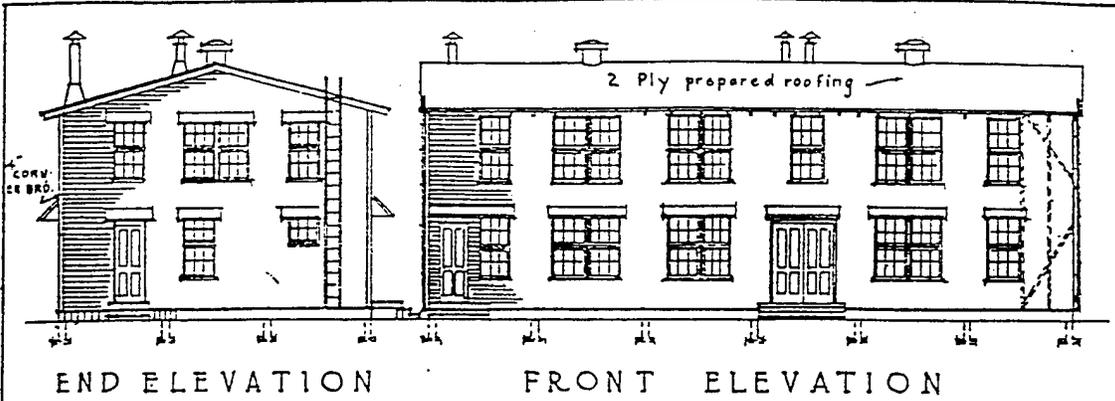
SCALE
 0' 8' 16' 24' 32' 40'

FOR DETAILS SEE DRWGS 6307-102-121.

CONSTRUCTION DIVISION OF THE ARMY.
INDUSTRIAL HOUSING.

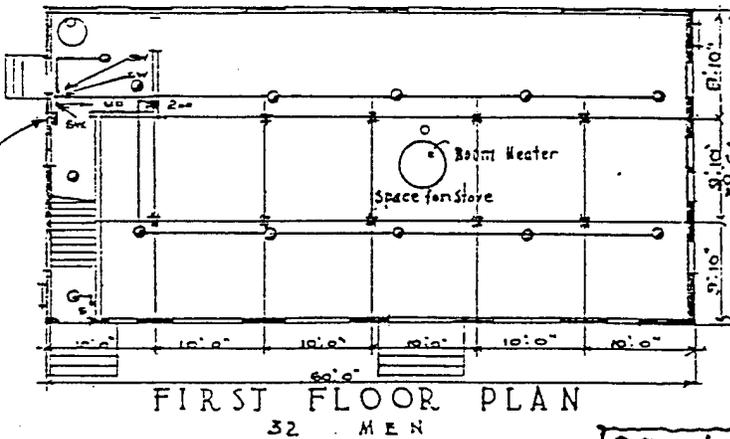
DORMITORIES WITH MESS.

SB-22



ELECTRICAL NOTE
 12x10x4 Cutout Cabinet
 30 Amp. 2 P Plug Fused Switch
 1 2 1/2 wire D.E. Plug Cutout
 # 12 wire to service

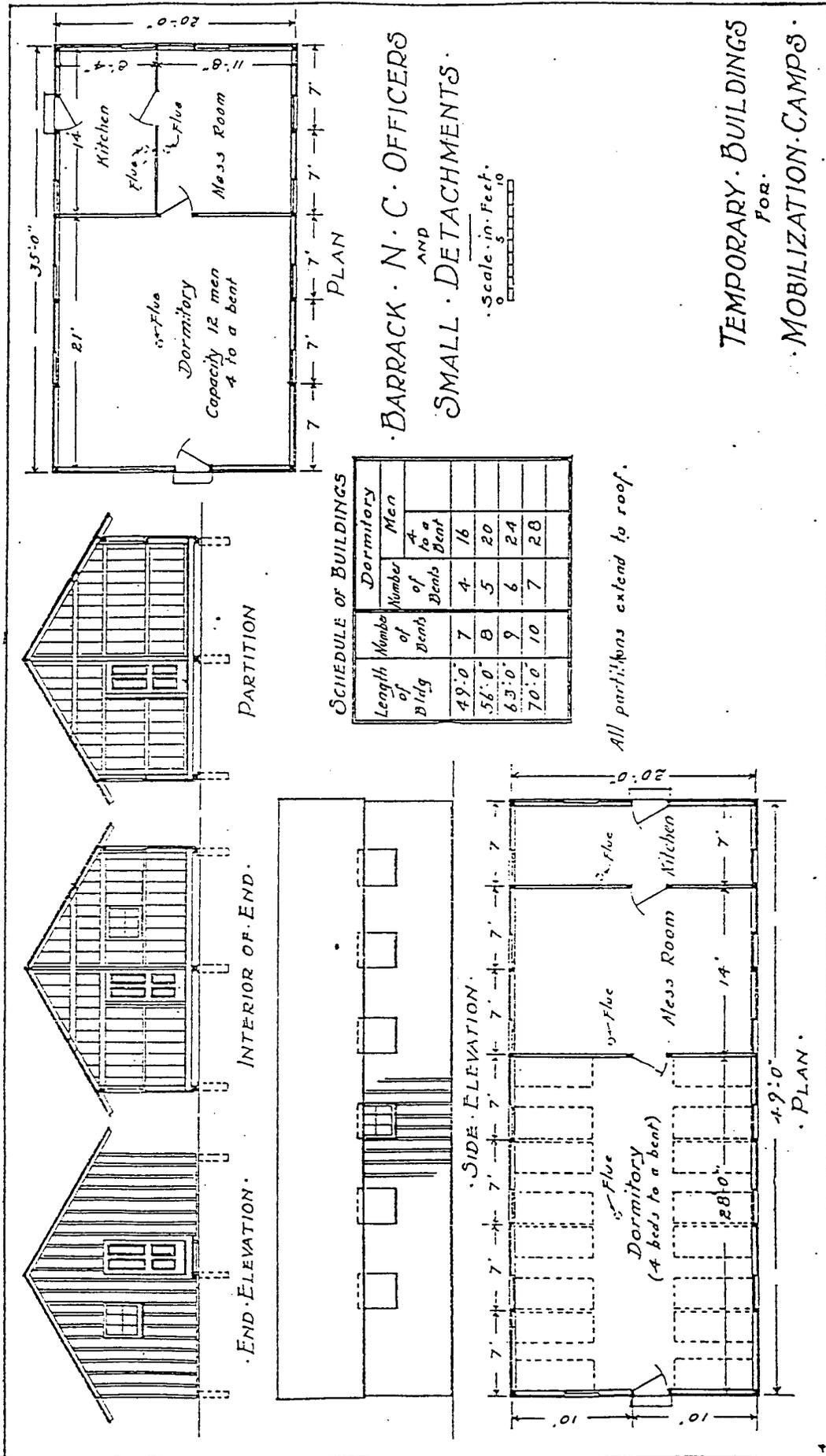
SEE SHEET 620.307 for
 Specification for Electrical work



SB-4

FOR DETAILS SEE DRAWING 620-313

CONSTRUCTION DIVISION OF THE ARMY
 TYPICAL BUILDINGS 66 MEN BARRACK



SCHEDULE OF BUILDINGS

| Length of Bldg | Number of Benches | Dormitory | |
|----------------|-------------------|-------------------|----------------|
| | | Number of Benches | Men to a Bench |
| 49'-0" | 7 | 4 | 16 |
| 56'-0" | 8 | 5 | 20 |
| 63'-0" | 9 | 6 | 24 |
| 70'-0" | 10 | 7 | 28 |

All partitions extend to roof.

BARRACK · N · C · OFFICERS
AND
SMALL · DETACHMENTS ·

Scale · in · Feet ·
0 5 10

TEMPORARY · BUILDINGS
FOR ·
MOBILIZATION · CAMPS ·

SCHEDULE - BARRACKS.

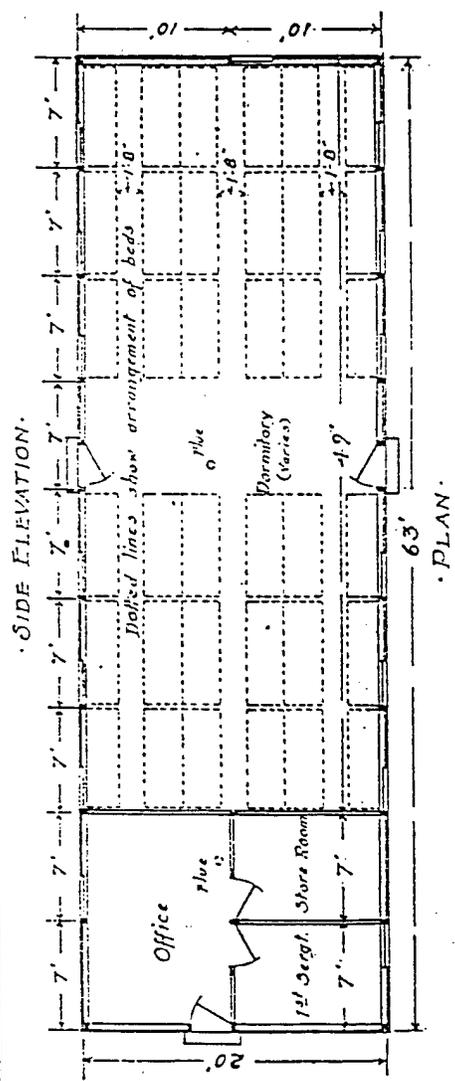
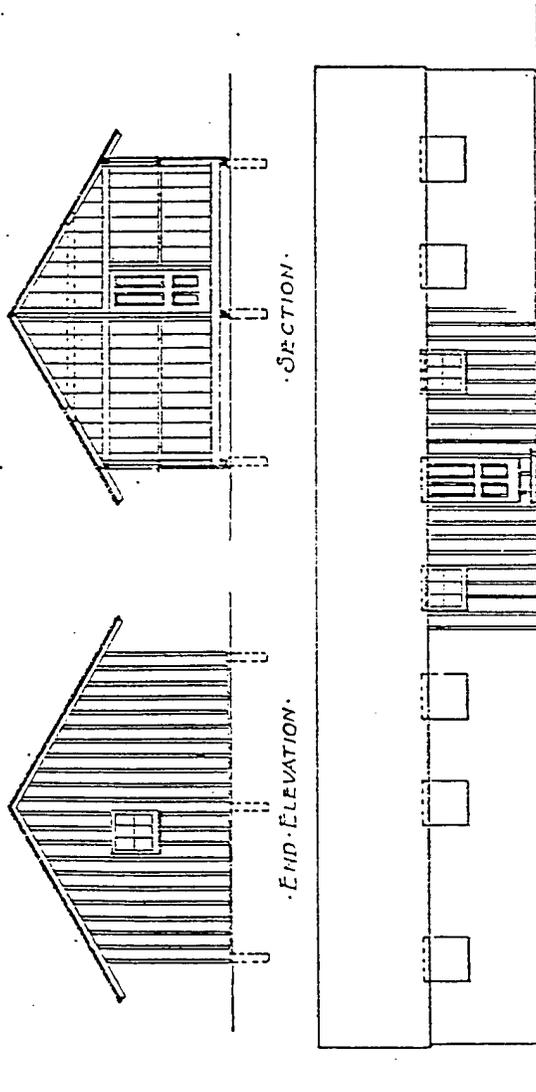
| Each Barrack has 2 Bents for office, &c. | Dormitory Bents. | | | | | | | | | | Totals | Number of Men. | |
|--|------------------|-----------------|------|--------|------|--------|------|--------|------|--------|--------|----------------|----|
| | Length | Number of Bents | Door | Window | Door | Window | Door | Window | Door | Window | | | |
| 65 | 9 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 6 | 17 | 37 |
| 70 | 10 | 3 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 7 | 18 | 43 |
| 77 | 11 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 10 | 19 | 49 |
| 91 | 13 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 9 | 21 | 55 |
| 98 | 14 | 3 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 10 | 22 | 61 |
| 105 | 15 | 3 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 11 | 23 | 67 |
| 112 | 16 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 12 | 24 | 73 |
| 126 | 18 | 3 | 1 | 3 | 1 | 4 | 1 | 3 | 1 | 3 | 13 | 26 | 79 |
| 133 | 19 | 3 | 1 | 4 | 1 | 4 | 1 | 3 | 1 | 3 | 14 | 31 | 85 |
| 140 | 20 | 3 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 15 | 31 | 91 |
| 147 | 21 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 1 | 4 | 16 | 31 | 97 |

NOTE:—

Each door bent to have a flue.
All partitions extend to roof.

BARRACK - ENLISTED - MEN.

Scale: 1/8" = 1' - 0"



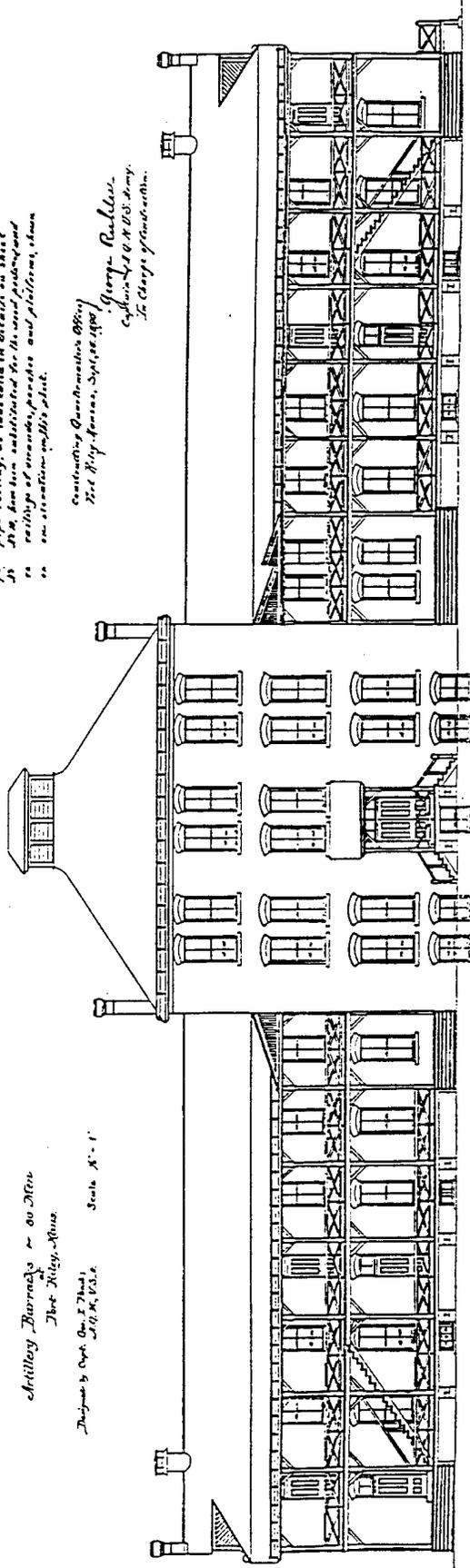
TEMPORARY BUILDINGS.
FOR
MOBILIZATION CAMPS.

APPENDIX NO. 16-5.

Note: 1. Iron columns and stringers not wrought-iron.
 2. All castings as indicated on detail on sheet
 3. All iron substituted for the wood platform and
 4. Details of windows, porches and platforms, shown
 in section on another sheet.

Contracting Quartermaster Office
 Fort Riley, Kansas, Sept. 22, 1890.
 George R. Keeler,
 Captain, U. S. Army.
 In charge of construction.

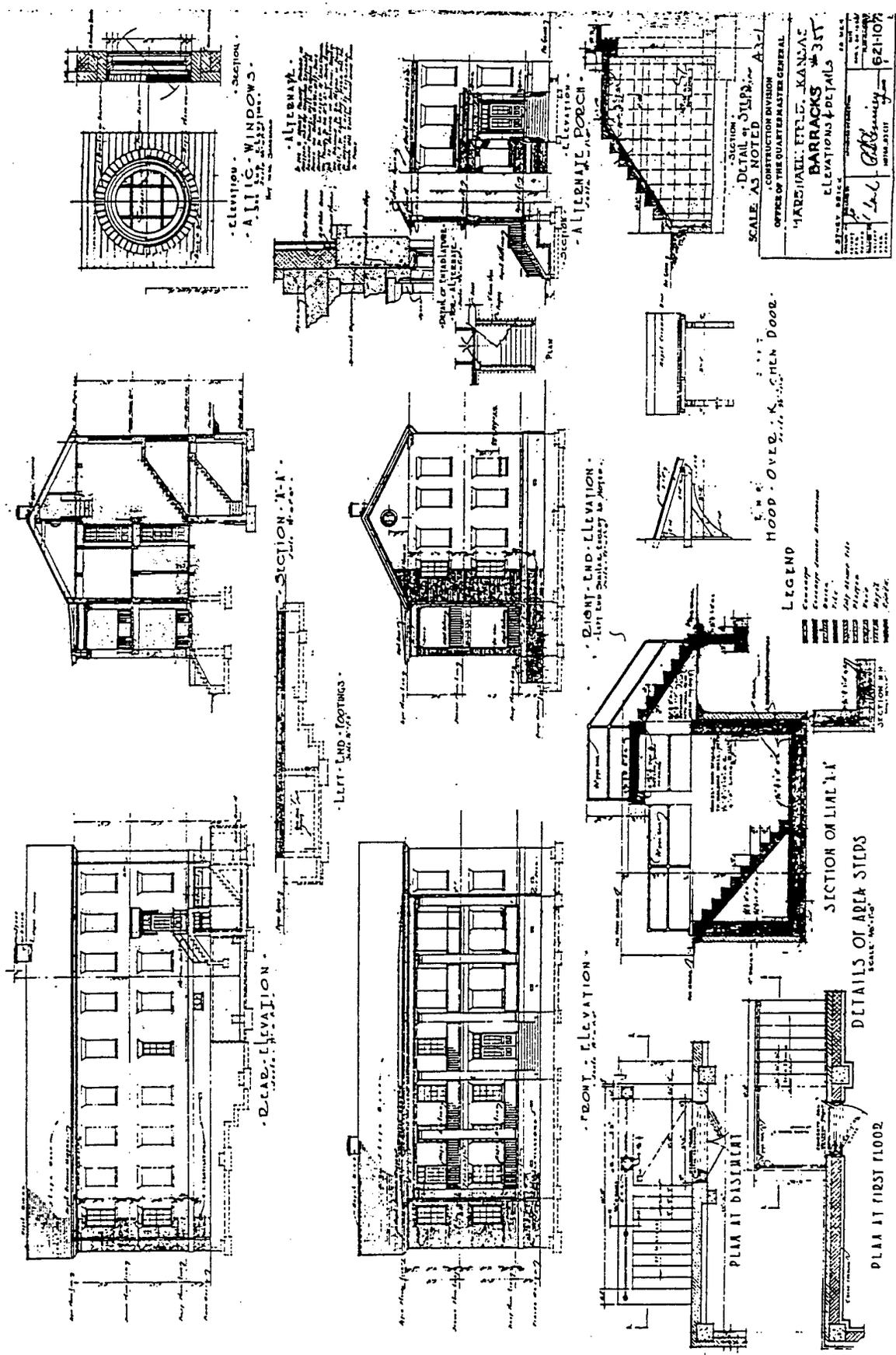
Artillery Barracks - du Men
 Fort Riley, Mo.
 Designed by Capt. Geo. F. Thoms,
 U. S. A.
 Scale 1/4" = 1'.



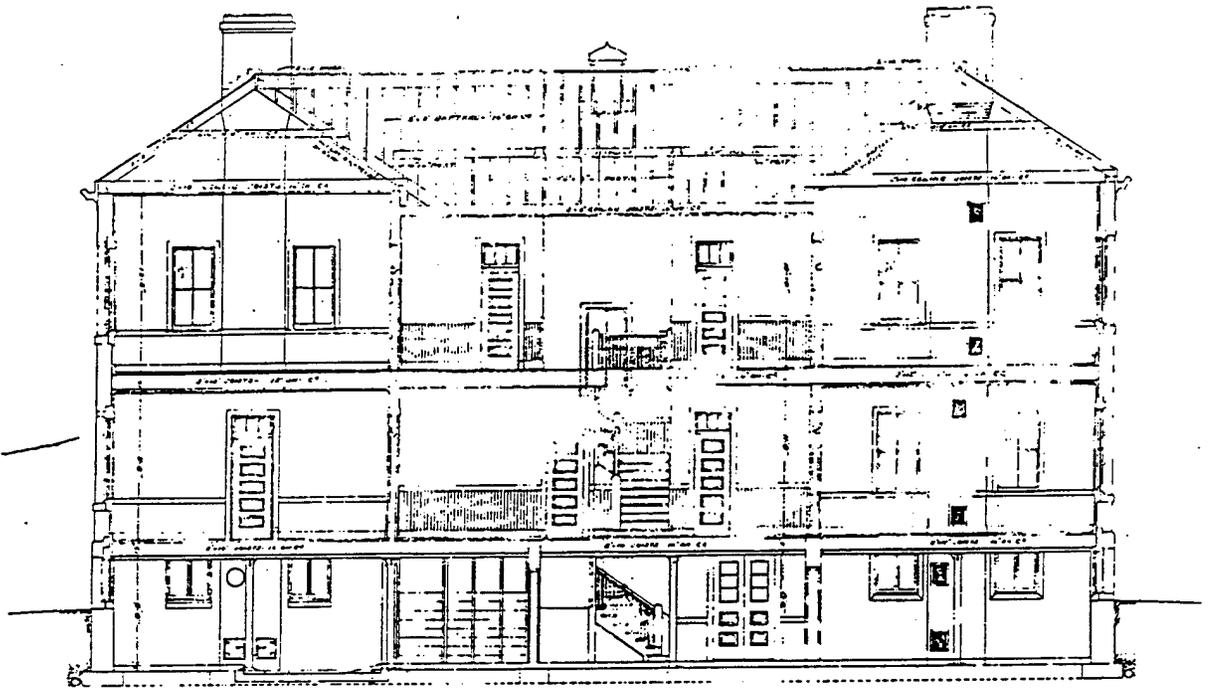
Front Elevation.
 Scale 1/4" = 1'.

U File A13-10
 #5

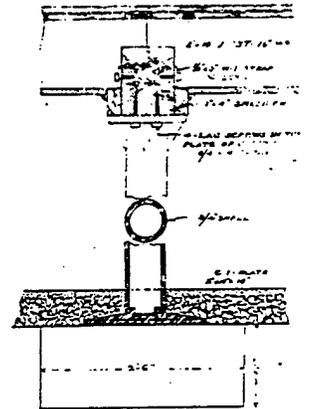
103 10000, 81217



A 3-1
NOTED.OI.CIT



SECTION ON LINE - P. B.
SCALE 1/4" = 1'-0"



DETAIL OF C. I. COLUMN
SCALE 1 1/2" = 1'-0"



SIDE ELEVATION
SCALE 1/4" = 1'-0"

NO 207 83.011
JUN 1 1907

SHEET NO. 3 61-F
DANIEL BARBACK



SECTION
SCALE 1/4 INCH

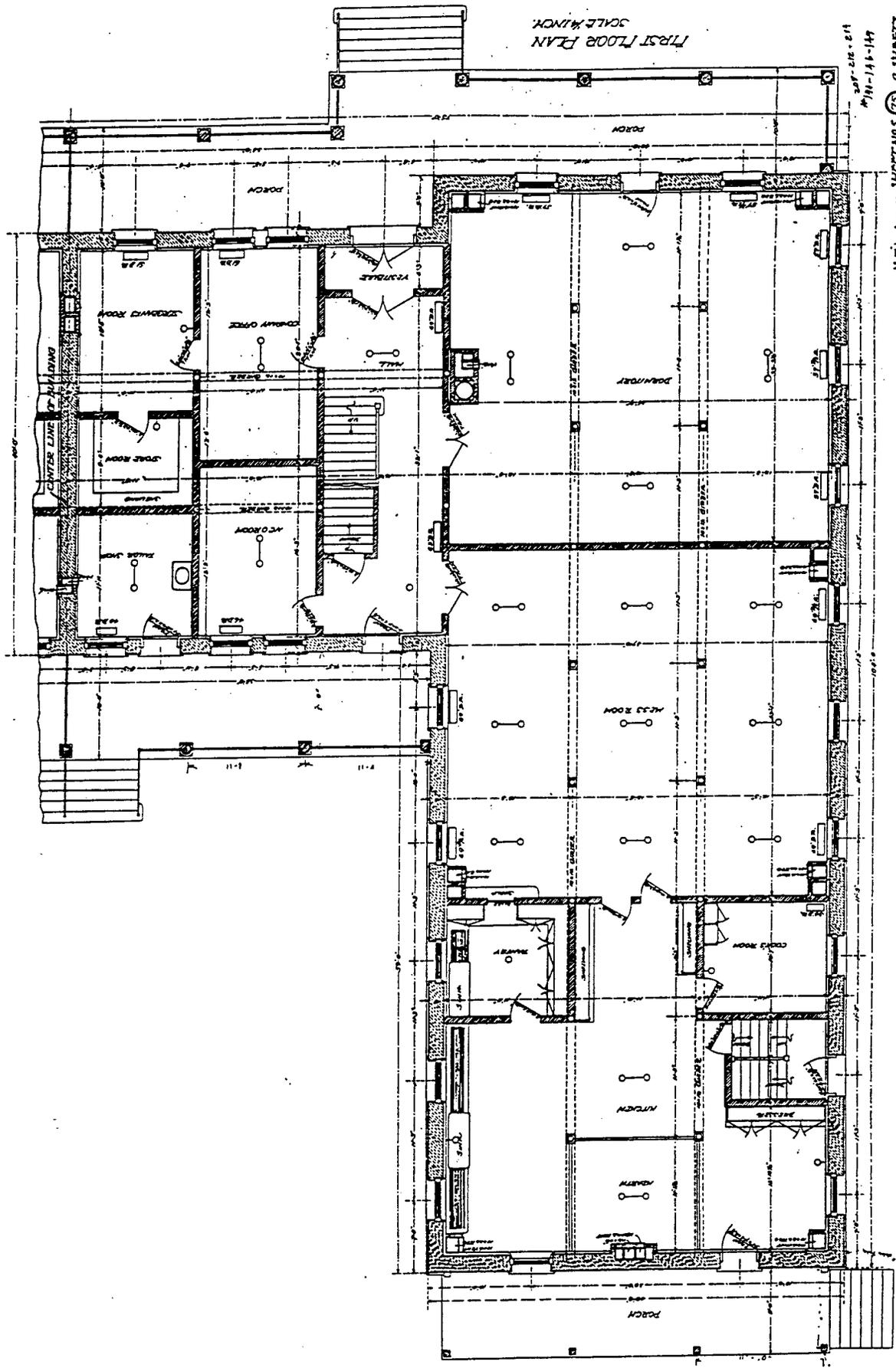


no 208-01:ct

FRONT ELEVATION
SCALE 1/4 INCH

SHEET NO. 17 OF 9 SHEETS
CAVALRY BARRACK

D.M.G.O. 84 JAN 1902



FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

U File A13-7 SHEET NOS 9 SHEETS
 CAVALRY BARRACK
 1902
 Q.M.C.O.
 JAN 1902
 NO 208-10.111

Proposed Double Cavalry Barracks

See Plan, page 200

Scale 1/8" = 1'-0"

Architect

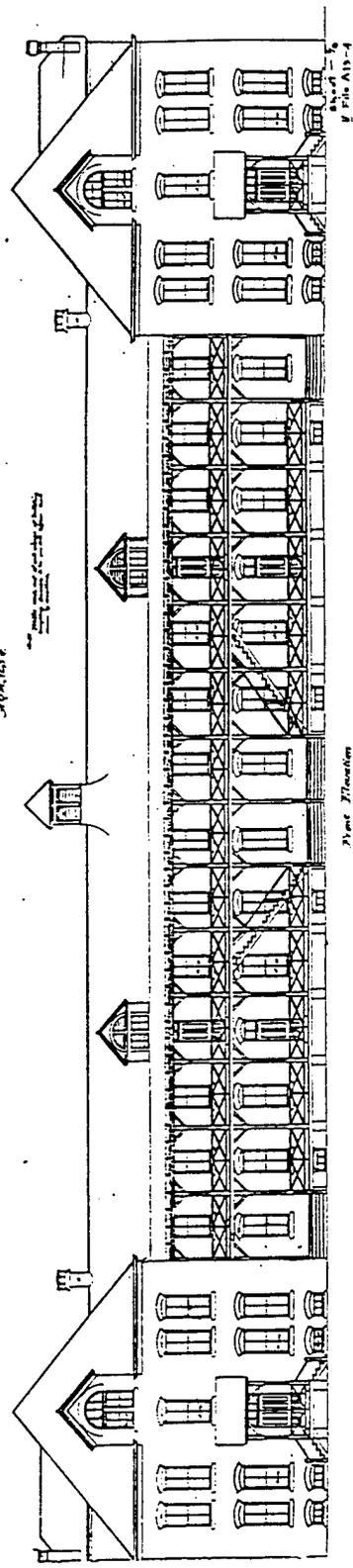
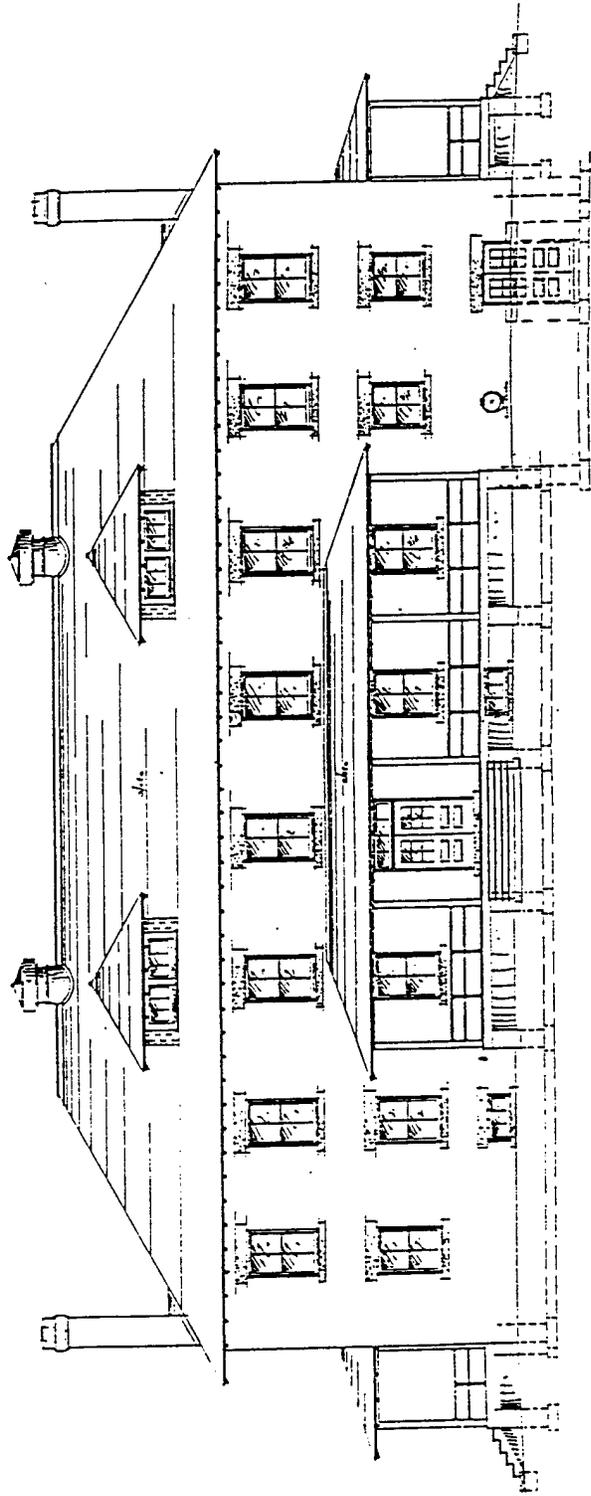


Plate 27

NO 211.27.cit

Sheet Number (5)



FRONT ELEVATION
SCALE 1/4" = 1'-0"

QUARTERS FOR PACKERS
FOR THE U. S. ARMY
AT WILEY MANA,
OFFICE OF ARCHITECTURE & ENGINEERING
SHEET 5-5
F. T. A. 1-10

1918
11020.08.G11

Category: RESIDENTIAL

Type 9 b-1: Institutional Housing Support Buildings: Detached Lavatories/Bathhouses

Description:

Detached lavatories, sinks (latrines or outhouses), and bathhouses are support structures to barracks and family housing. These one-story, utilitarian structures generally were located near housing facilities. During the nineteenth and early twentieth centuries, detached lavatories, outhouses, and bathhouses were common property types. Few remain due to the incorporation of indoor plumbing in military housing.

Evolution:

Army Regulations issued in 1821 set minimum standards of personal cleanliness for the troops; they were required to have clean uniforms and to wash their faces and hands daily.⁸ Despite these regulations, the Army provided no appropriations to fund the construction of latrines or bathhouses. The Secretary of War routinely rejected all plans and estimates for such facilities; troops, rather than the government, were expected to pay for their personal cleanliness.⁹ The earliest sinks built of permanent materials identified during this study were stone facilities constructed at Ft. Sill, Oklahoma, during the 1870s. Buildings labeled as wash houses on nineteenth-century post plans were for clothes washing, not bathing. Officer quarters usually had an individual latrine, while the soldiers living in the barracks shared a larger facility.

In the West, communal detached latrines and bathhouses became prevalent for barracks at such places as Fts. Huachuca, Bliss, and Riley, during the late nineteenth and early twentieth centuries. These buildings contained indoor plumbing for toilets and bathing facilities. They were located behind the barracks, and often served the residents of two barracks. On some western posts, permanent detached lavatories were not constructed until World War I.

After 1891, new officer housing and barracks were constructed with indoor bathrooms and toilets. Officer quarters had a room with a bathtub, wash basin, and water closet and occasionally a servant's bathroom and water closet in the basement. However, not all regions of the country received indoor plumbing at the same time. At older posts, such as at the Department Headquarters post at Ft. Sam Houston, Texas, the officers and their families continued to use detached outhouses behind the quarters. Individual water closets behind officer quarters were still common in 1904 according to post plans from that year.¹⁰ The most popular addition to older residences was a bathroom with indoor toilet.

⁸ David A. Clary, *These Relics of Barbarism: A History of Furniture in Barracks and Guardhouses of the United States Army 1800 - 1880*, MSS, Department of the Interior, National Park Service, Harper's Ferry Center, West Virginia, 58.

⁹ Risch, *Quartermaster Support of the Army*, 488-489.

¹⁰ NARA, Cartographic Branch, RG 92, Post Plans, 1904 - 1905.

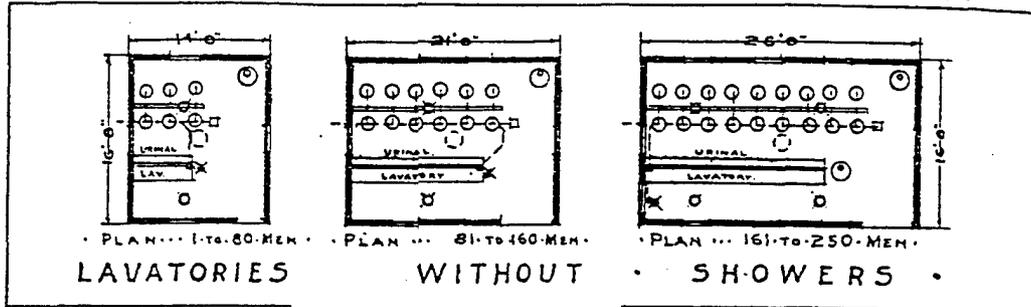
Surviving lavatories are generally one-story utilitarian buildings located behind officer housing and barracks complexes. They were constructed of permanent materials such as brick or stone, and match the barracks or housing complex. By the 1930s, indoor bathrooms and toilets were included automatically in the designs of barracks and housing.

Association:

Detached lavatories are a minor property type associated with housing complexes that pre-date the widespread construction of indoor plumbing. They are associated with the improvement of living standards for military personnel as the military began to construct larger, more permanent facilities. The construction of detached lavatories and bathhouses also is related to improvements in plumbing and the growing awareness of the connection between hygiene and health. These buildings do not possess individual significance, but may be contributing elements in an installation historic district if they are related physically to a barracks or housing area.

Integrity:

To possess integrity, detached lavatories and bathhouses should retain most of their exterior features from the period of significance of the historic district. Most detached lavatories and bathhouses no longer serve their original functions. They often have been converted into storage facilities. Exterior elements that may have been modified include window and door openings. Where subsequent additions or renovations have occurred, detached lavatories and bathhouses still may have integrity if they retain their location and the majority of their setting, association, materials, and design.



SYMBOLS AS SHOWN BELOW

FOR DETAILS SEE DRAWING 620-324

NOTES AND SYMBOLS.

- ELECTRIC LIGHT.
- WATER CLOSET.
- FLOOR DRAIN & VENT PIPE.
- HOT WATER TANK.
- ✕ DRINKING FOUNTAIN.
- SHOWER HEAD.
- ⊕ WATER HEATER.
- ⊙ STOVE. ⊙ VENTILATOR.

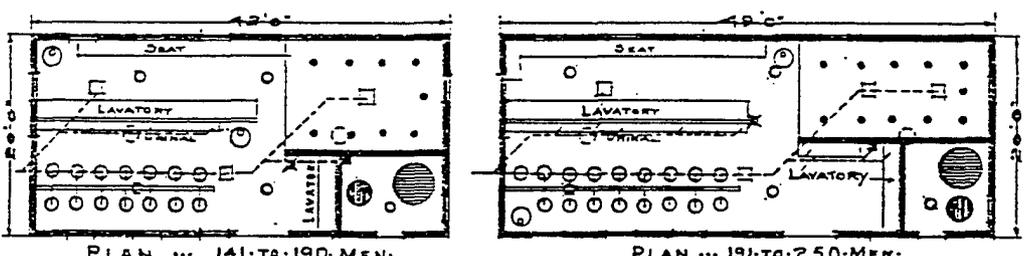
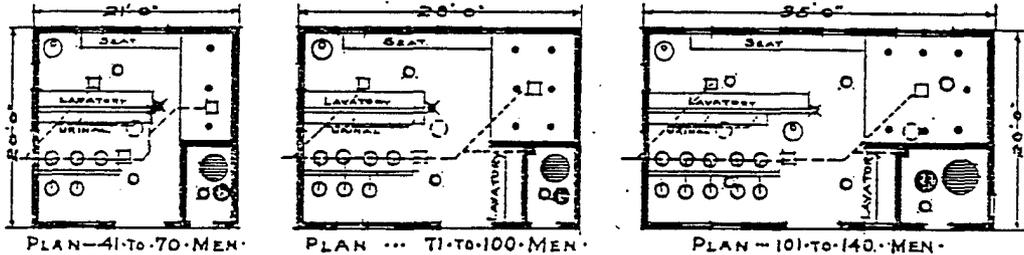
REFERENCES FOR LAVATORIES WITH SHOWERS.

| | |
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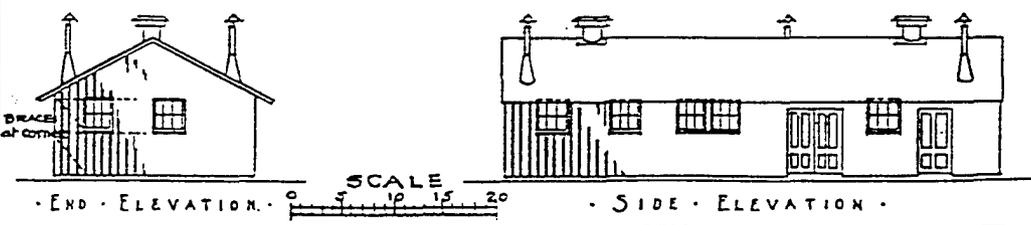
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| | |
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PLAN -- 1-TO-20-MEN · PLAN -- 21-TO-40-MEN

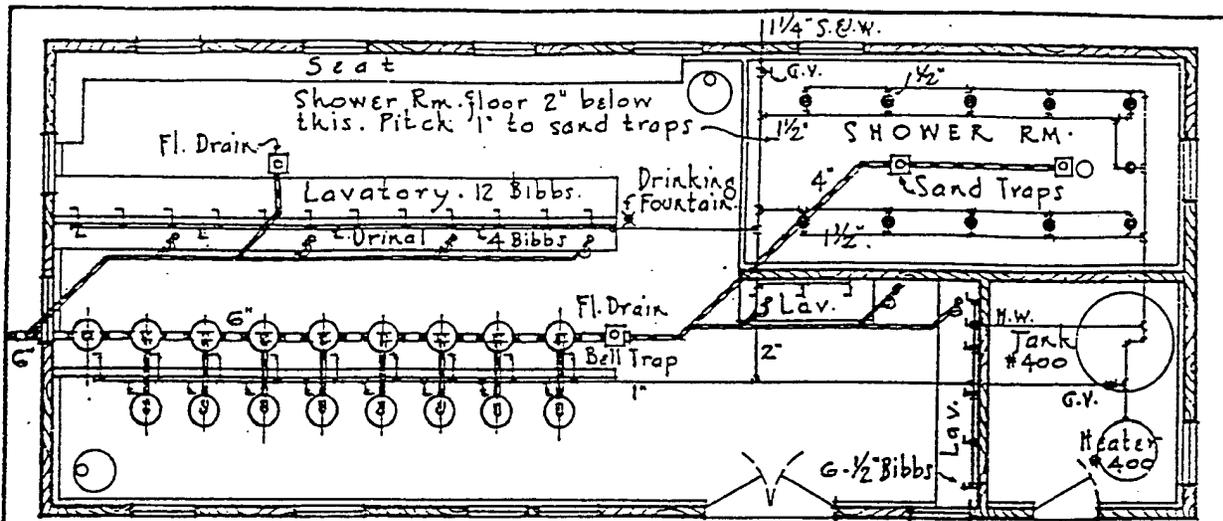


LAVATORIES WITH SHOWERS
SEE DETAIL DRAWINGS INCLUDED IN THIS MANUAL.

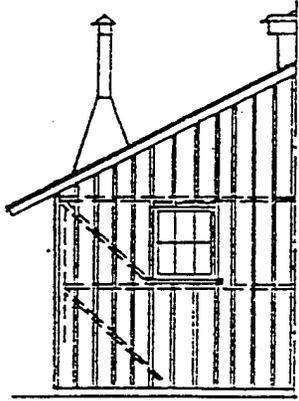


CONSTRUCTION DIVISION OF THE ARMY
TYPICAL BUILDINGS
LAVATORIES

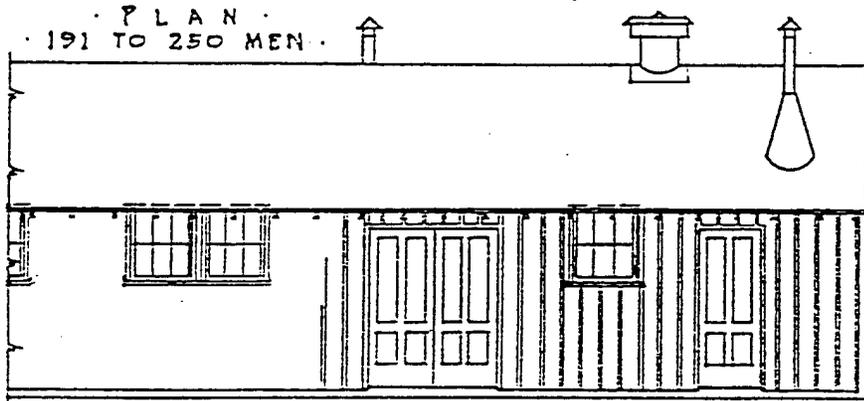
SB-6



PLAN
191 TO 250 MEN.

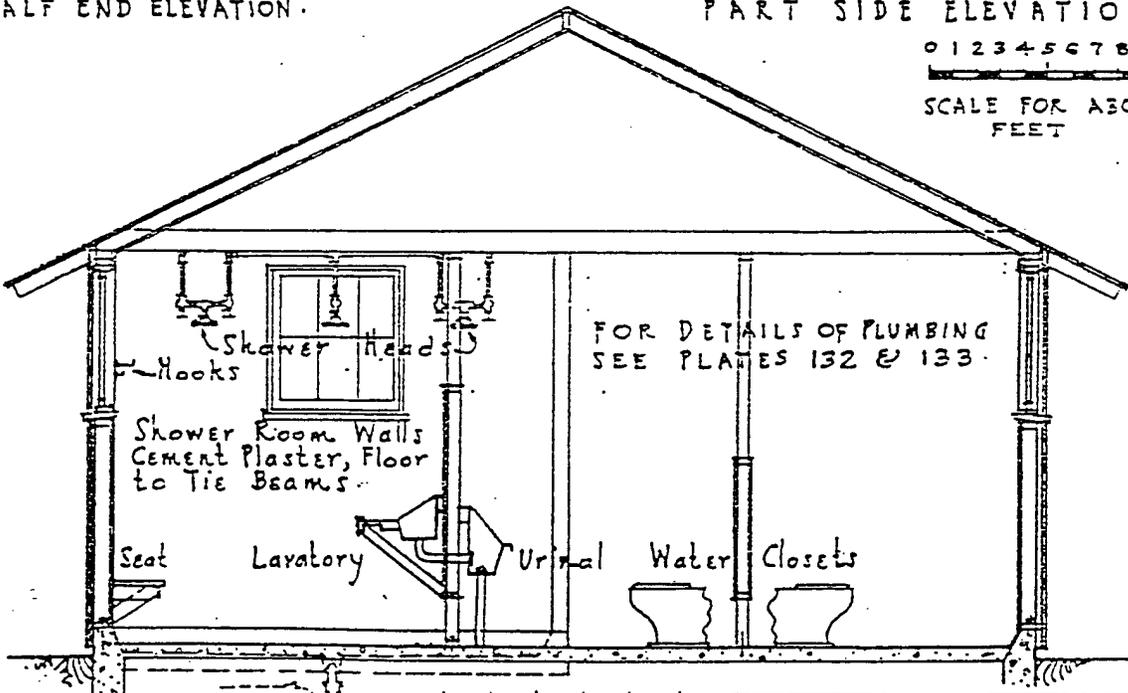


HALF END ELEVATION.



PART SIDE ELEVATION

0 1 2 3 4 5 6 7 8 9 10
SCALE FOR ABOVE FEET

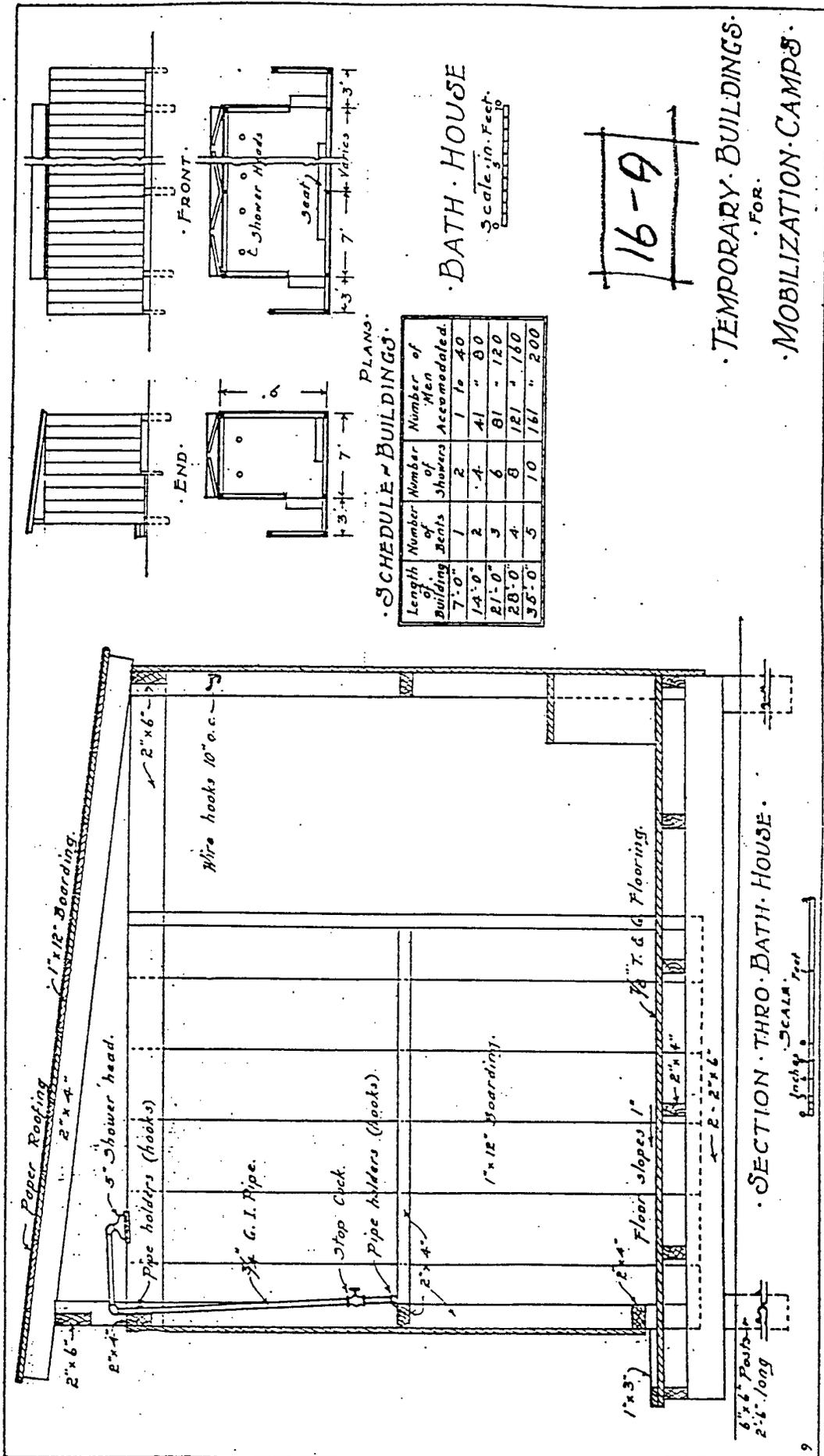


TRANSVERSE SECT'N.
0 1 2 3 4 5
SCALE FOR SECTION

For Details see drawings:—
620-329,330,345,350,351,367.

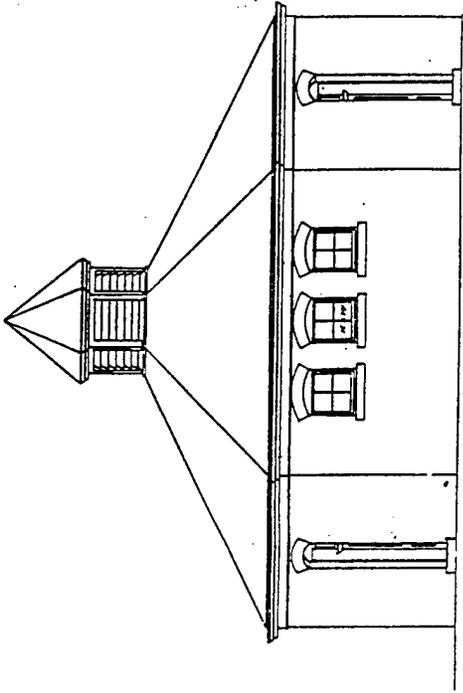
CONSTRUCTION DIVISION OF THE ARMY
TYPICAL BUILDINGS
LAVATORY DETAILS

CD-7



16-A

TEMPORARY BUILDINGS.
FOR.
MOBILIZATION CAMPS.



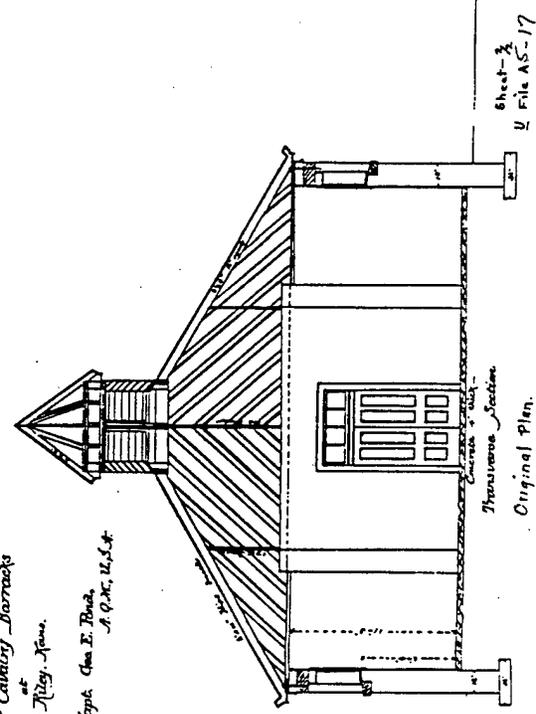
Elevation

Outhouses & Laundry Baracks

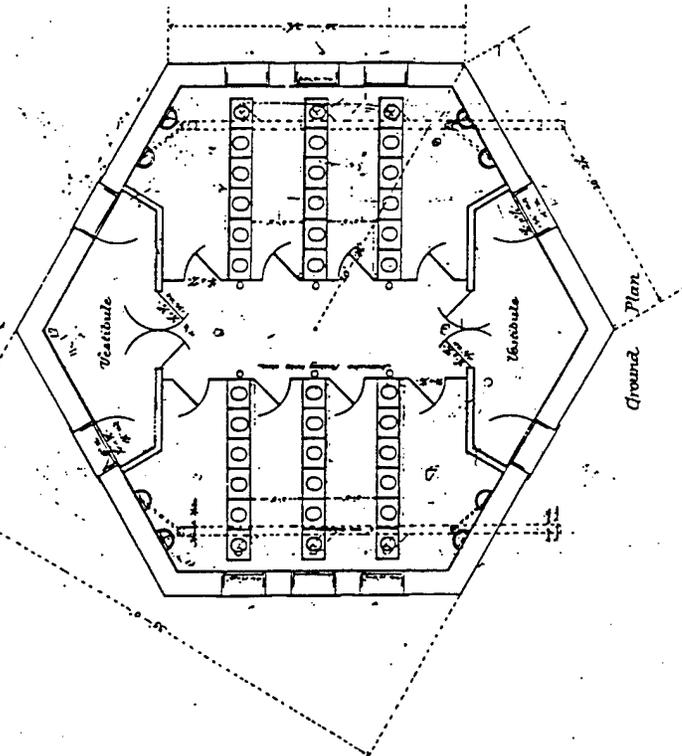
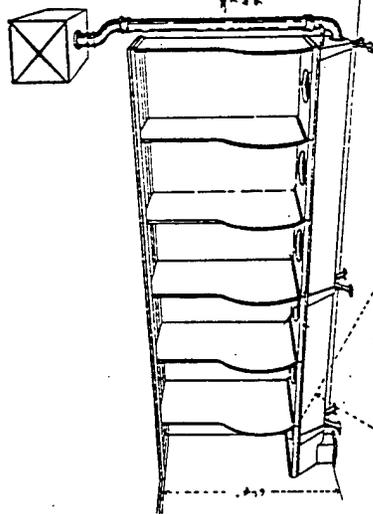
Fort Riley, Kans.

Capt. Geo. E. Ross, A. S. C. U. S. A.

Scale 1/4" = 1'



*Sheet 2
U File AS-17*



441

W. H. WALKER

Category: RESIDENTIAL

Type 9 b-2: Institutional Housing Support Buildings: Mess Halls

Description:

Mess halls housed kitchens and dining facilities for military personnel. Mess hall buildings included a dining room, kitchen, cook's room, dish pantry, and storerooms. Mess halls were built near barracks complexes. Mess halls shared the same construction materials and architectural character as the adjacent barracks. The buildings were usually one story, though they often had high ceilings that gave them the exterior appearance of a two-story building.

Evolution:

The Army provided enlisted personnel with food rations through the mess system. Officers paid the officers mess for their own food. Officers dined in the officers mess in the bachelor officers quarters, or in the case of married senior officers, in their family quarters. The mess halls and kitchens for enlisted men were contained in the barracks. In a one-story barracks, the kitchen and mess room were located in a rear wing; in a two-story barracks, on the first floor. Food distribution generally was organized by company, with each company living and eating together.

As the Army consolidated its troops into larger, permanent posts during the 1880s and 1890s, the Quartermaster Department experimented with the idea of a single mess for all enlisted personnel in one building. The Army constructed its first consolidated mess at the recruiting depot at David's Island, New York, in 1888. Common mess halls were adopted at a number of larger posts by 1893. Advantages of the consolidated mess over the company mess included better cooking and greater economy of meal preparation.¹¹

In 1893, the Quartermaster General reported that mess halls existed at Ft. Bliss, Ft. Brady, Davids Island, Jefferson Barracks, Ft. McPherson, Plattsburgh Barracks, Ft. Riley, Ft. Sam Houston, Ft. Sheridan, and Ft. Thomas. In addition, consolidated messes were established at Ft. Myer, Key West Barracks, Ft. Schuyler, Ft. Warren, and Willets Point. In response to critics of the consolidated mess, the Quartermaster General recommended no further construction of the consolidated mess until time and further trial have removed the objections brought against it. The Quartermaster General maintained that the introduction of "scientific" cooking would improve the health and well-being of the troops.¹²

Examples of the consolidated mess were identified at Forts Bliss, McPherson, and Riley. At Ft. Bliss, Texas, the mess hall building is located between two two-company barracks. The T-shaped building is composed of a two-story principal block and a one-story rear kitchen wing. A Quartermaster Department plan for a mess hall at Ft. Crook (now Offutt AFB), Nebraska, indicates that the second floor offices held a school room and a library. At Ft. Riley, Kansas, the

¹¹ Risch, *Quartermaster Support of the Army*, 507.

¹² War Department, *Annual Reports of the Quartermaster-General*, Washington, D.C.: Government Printing Office, 1893, 10-11.

mess hall was located between two groups of barracks. By 1904, post plans indicate that the building was converted to a post exchange and gymnasium, and that rear wings were, added to two of the barracks, probably for the addition of mess rooms and kitchens to the barracks.¹³

The Army generally abandoned consolidated messes after 1896 and returned to the practice of including kitchens and mess rooms for each company within barracks.¹⁴ Consolidated messes did not regain popularity during the 1930s era of Army construction. Permanent barracks constructed during the 1930s contained their own kitchens and mess rooms. One exception was at Randolph AFB, Texas, an Army Air Corps training field, at which a separate mess building was built for the cadets behind the cadet barracks. The Randolph mess hall was designed in the same Spanish Colonial architecture as the other buildings of the airfield. During mobilization for the First and Second World Wars, the Army constructed separate mess halls at its mobilization cantonments; these mess halls were built according to standardized plans using temporary, wood-frame construction.

Association:

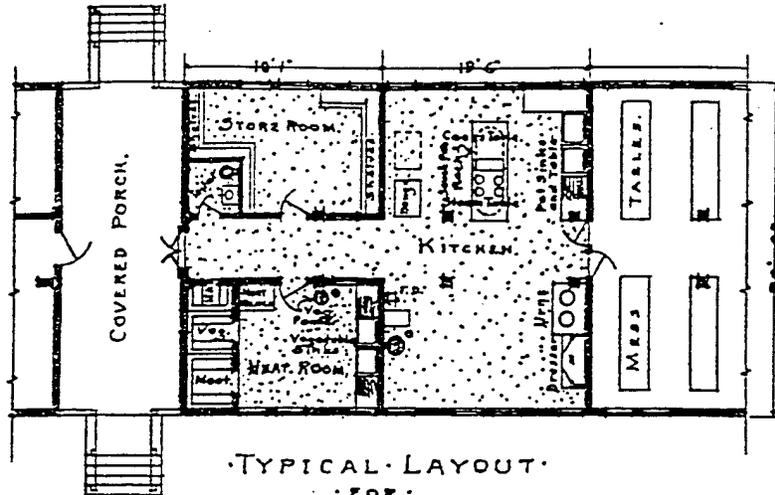
Mess halls often are major support buildings at installations. Mess halls are associated with the evolution of living standards for military personnel and with the development of installation support facilities. The construction of mess halls is related to the historical development of the services. At Army installations, detached mess halls usually are related to a distinct period of construction during the late nineteenth century. Mess hall buildings often reflect the influence of civilian architecture on military designs and usually are similar to barracks architecture. Mess halls generally do not possess individual significance, but may be major contributing elements to an installation historic district.

Integrity:

To possess integrity, mess halls should retain their physical relationship to adjacent barracks and most of their architectural ornamentation, design features, and external construction materials from the period of significance of an historic district. Few mess halls retain their original use. Most have been modified to serve administrative or recreational uses. Major changes include the removal of porches and the modification of window and door openings and materials. Where subsequent additions or renovations have occurred, mess halls still may have integrity if they retain their location and the majority of their setting, materials, design, and association. In most cases, even with major modification, mess halls may be contributing elements in an historic district as supporting buildings related to a barracks complex.

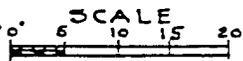
¹³ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, Plan 56-, NARA, Cartographic Branch, RG 92, Post Plans, Ft. Riley, Kansas.

¹⁴ David A. Clary, *A Life Which is Gregarious in the Extreme: A History of Furniture in Barracks, Hospitals, and Guardhouses of the United States Army, 1880-1945*, MSS, U.S. Department of the Interior, National Park Service, Harpers Ferry Center, West Virginia, 1983, 29.

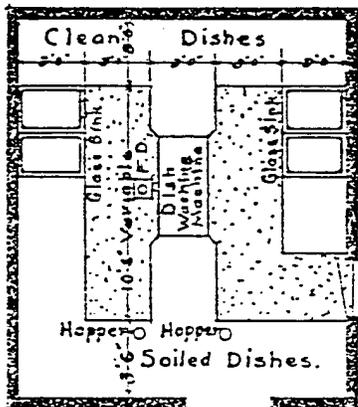


TYPICAL LAYOUT FOR

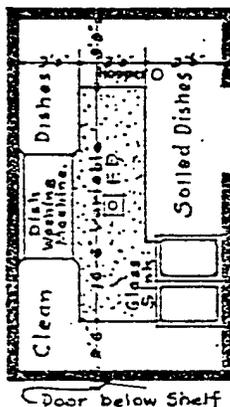
NURSES OR OFFICERS KITCHEN AND MESS



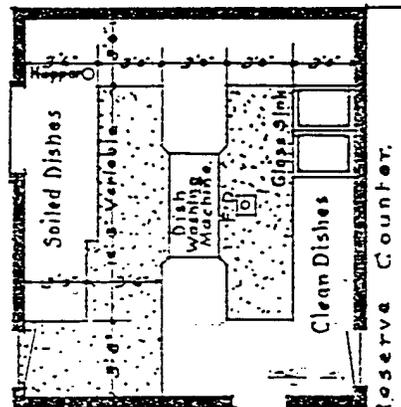
FOR DETAIL PLAN, SEE SURGEON GENERAL'S OFFICE, SHEET 3-D11.



DOUBLE SERVICE ROOM

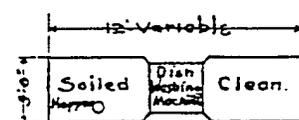
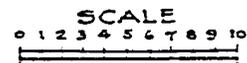
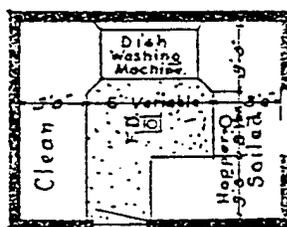
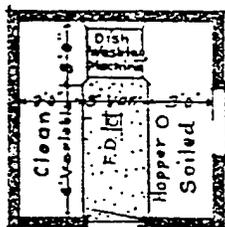


Door below Shelf



Reserve

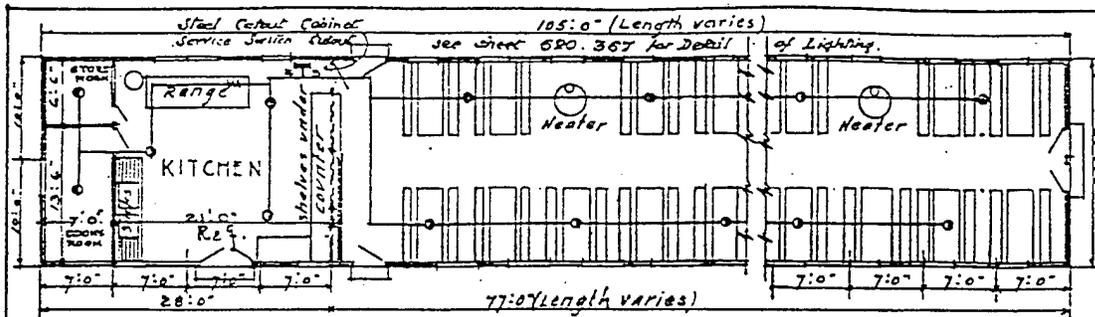
Reserve Counter



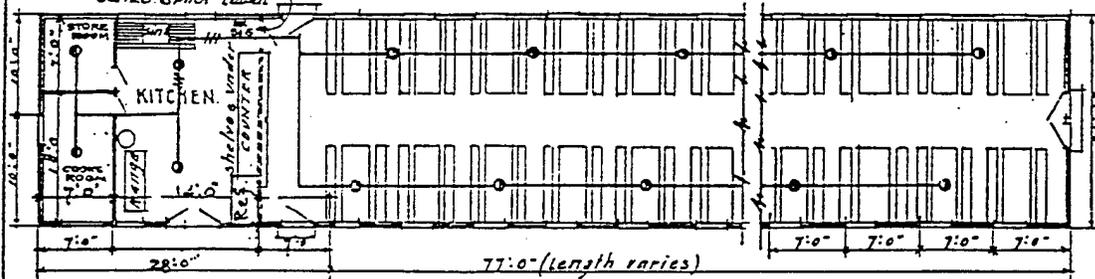
TYPICAL DISH WASHING PANTRIES FOR HOSPITAL AND MESS KITCHENS

CONSTRUCTION DIVISION OF THE ARMY
 HOSPITAL BUILDINGS
 TYPICAL KITCHEN LAYOUT

SB-13

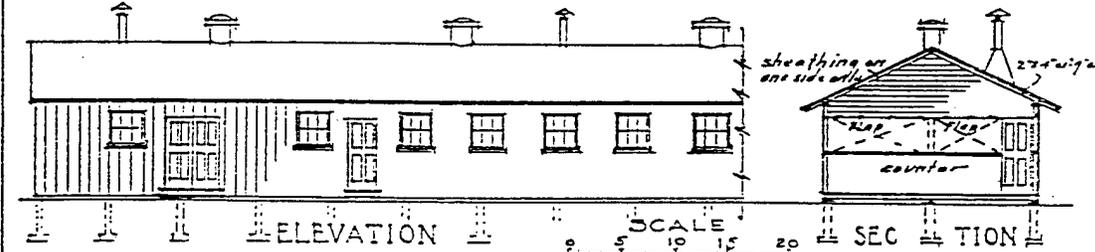


PLAN (MESS SEATING MORE THAN 75 MEN)



PLAN OF KITCHEN (MESS SEATING LESS THAN 75 MEN)

NOTE
DETENTION AND QUARANTINE CAMPS TO HAVE T AND G SCREENS BETWEEN BENCHES IN MESS ROOM.



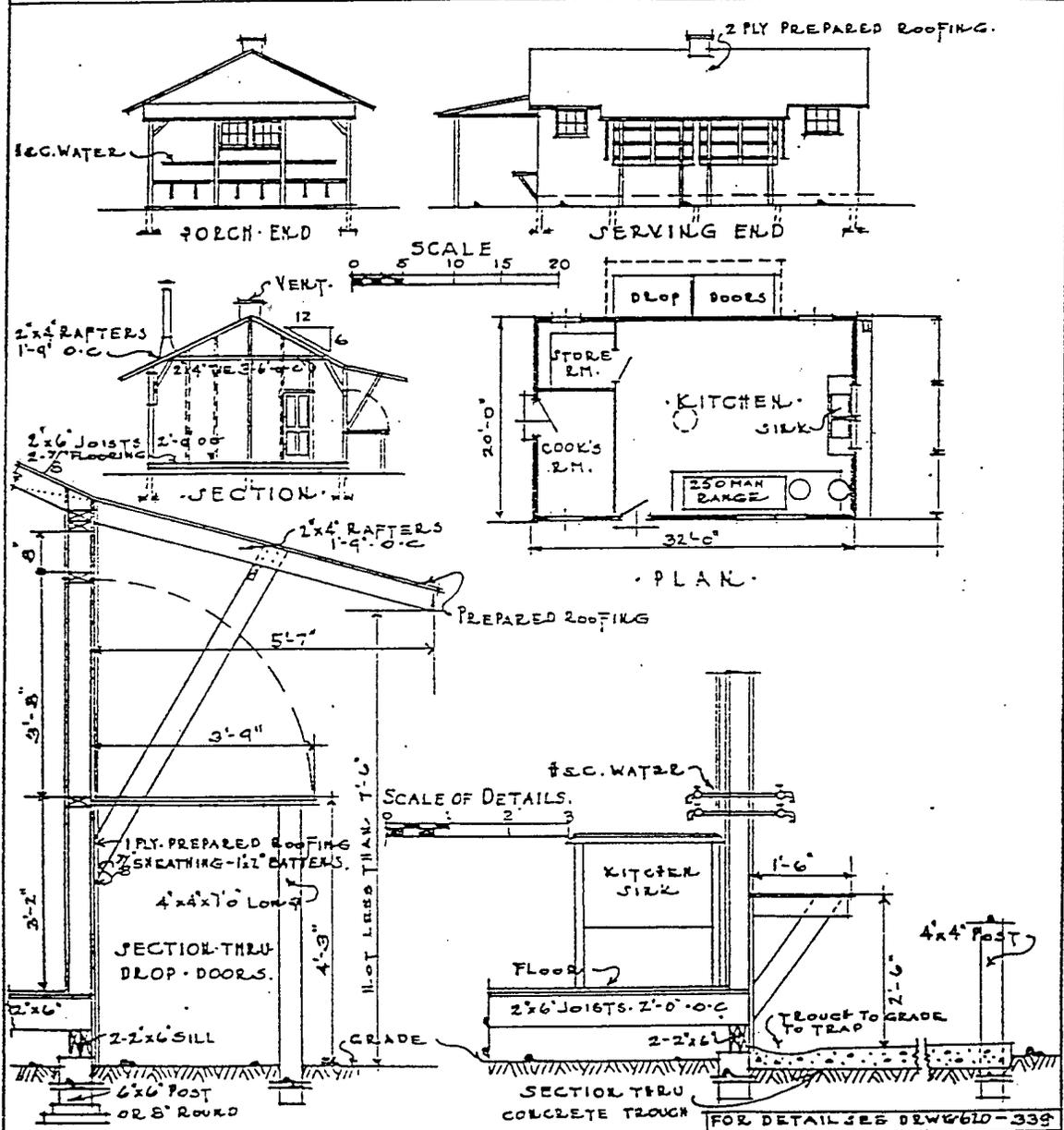
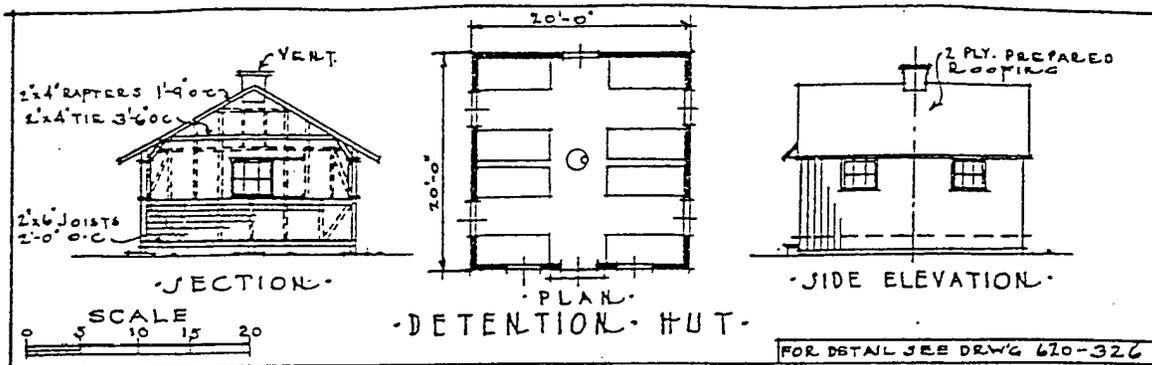
| STEAM HEAT | | SCHEDULE | | | | | | | | | | | | |
|---------------------------|-----------------------|--------------------|----------------|----------------------|----------------|----------|------------------|---------|--------|---|----------------------------|---|---|---|
| INDEPENDENT HEATING PLANT | CENTRAL HEATING PLANT | LENGTH OF BUILDING | LENGTH OF MESS | NUMBER OF MEN SEATED | RANGES | BROTHERS | HEATERS | | | | NUMBER OF HEATERS REQUIRED | | | |
| | | | | | CAPACITY (MAN) | CAPACITY | SIZES OF HEATERS | X | F | Z | F | Z | F | |
| | | 49 | 28 | 40 | 1-40 | 1-40CAL | 20R 9' | 16R 8' | 14R 7' | | | | | 1 |
| | | 56 | 35 | 56 | 1-65 | | 22R 9' | 18R 8' | 16R 8' | | | | | 1 |
| | | 63 | 42 | 72 | | | 22R 9' | 18R 8' | 16R 8' | | | | | 1 |
| | | 77 | 49 | 88 | 1-90 | 1-66 " | 22R 9' | 18R 8' | 16R 6" | | | | | 1 |
| | | 84 | 56 | 104 | | | 24R 10' | 22R 9' | 18R 8' | | | | | 1 |
| | | 91 | 63 | 120 | 1-125 | 1-82 " | 24R 10' | 22R 9' | 18R 8' | | | | | 1 |
| | | 98 | 70 | 136 | | | 26R 10' | 24R 10' | 20R 8' | | | | | 1 |
| | | 105 | 77 | 144 | 2-65 | | 22R 9' | 20R 9' | 16R 8' | | | | | 2 |
| | | 112 | 84 | 160 | | 1-100 " | 22R 9' | 20R 9' | 16R 8' | | | | | 2 |
| | | 119 | 91 | 176 | | | 22R 9' | 20R 9' | 16R 8' | | | | | 2 |
| | | 126 | 98 | 192 | 2-90 | | 22R 9' | 20R 9' | 16R 8' | | | | | 2 |
| | | 133 | 105 | 208 | | 2-66 " | 22R 10' | 22R 9' | 18R 8' | | | | | 2 |
| | | 140 | 112 | 224 | | | 22R 10' | 22R 9' | 18R 8' | | | | | 2 |
| | | 147 | 119 | 240 | | | 22R 10' | 22R 9' | 18R 8' | | | | | 2 |
| | | 154 | 126 | 256 | 2-125 | | 22R 10' | 22R 10' | 20R 9' | | | | | 2 |
| | | 161 | 133 | 272 | | | 22R 9' | 20R 9' | 16R 8' | | | | | 3 |
| | | 168 | 140 | 288 | | 2-82 " | 32R 9' | 20R 9' | 16R 8' | | | | | 3 |
| | | 175 | 147 | 296 | 3-90 | | 32R 9' | 20R 9' | 16R 8' | | | | | 3 |

HEATERS IN COL. "X" ARE FOR OUTSIDE TEMPERATURES OF 20° F
 "Y" ARE FOR ZERO TEMPERATURES; AND "Z" FOR 20° ABOVE ZERO.
 "F" GIVES DIAMETER OF SMOKE PIPE.

FOR DETAILS SEE DRAWING G-20-316

CONSTRUCTION DIVISION OF THE ARMY
 TYPICAL BUILDINGS
 MESS BUILDING

SB-15



CONSTRUCTION DIVISION OF THE ARMY SB-18

TYPICAL BUILDINGS

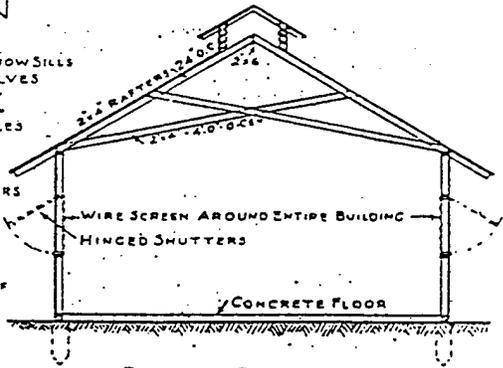
DETENTION HUT & KITCHEN FOR DETENTION & QUARANTINE CAMPS

15-6

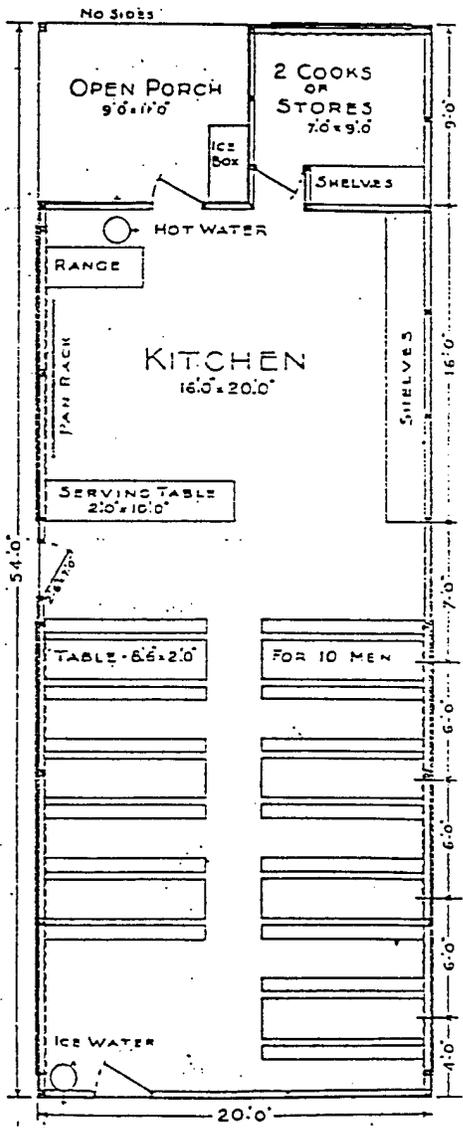
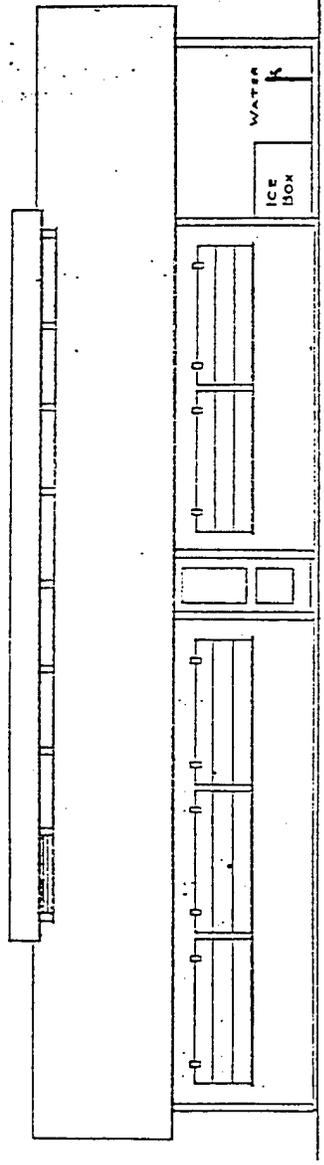
PLAN FOR KITCHEN AND DINING ROOM 72 MEN

BILL OF MATERIAL

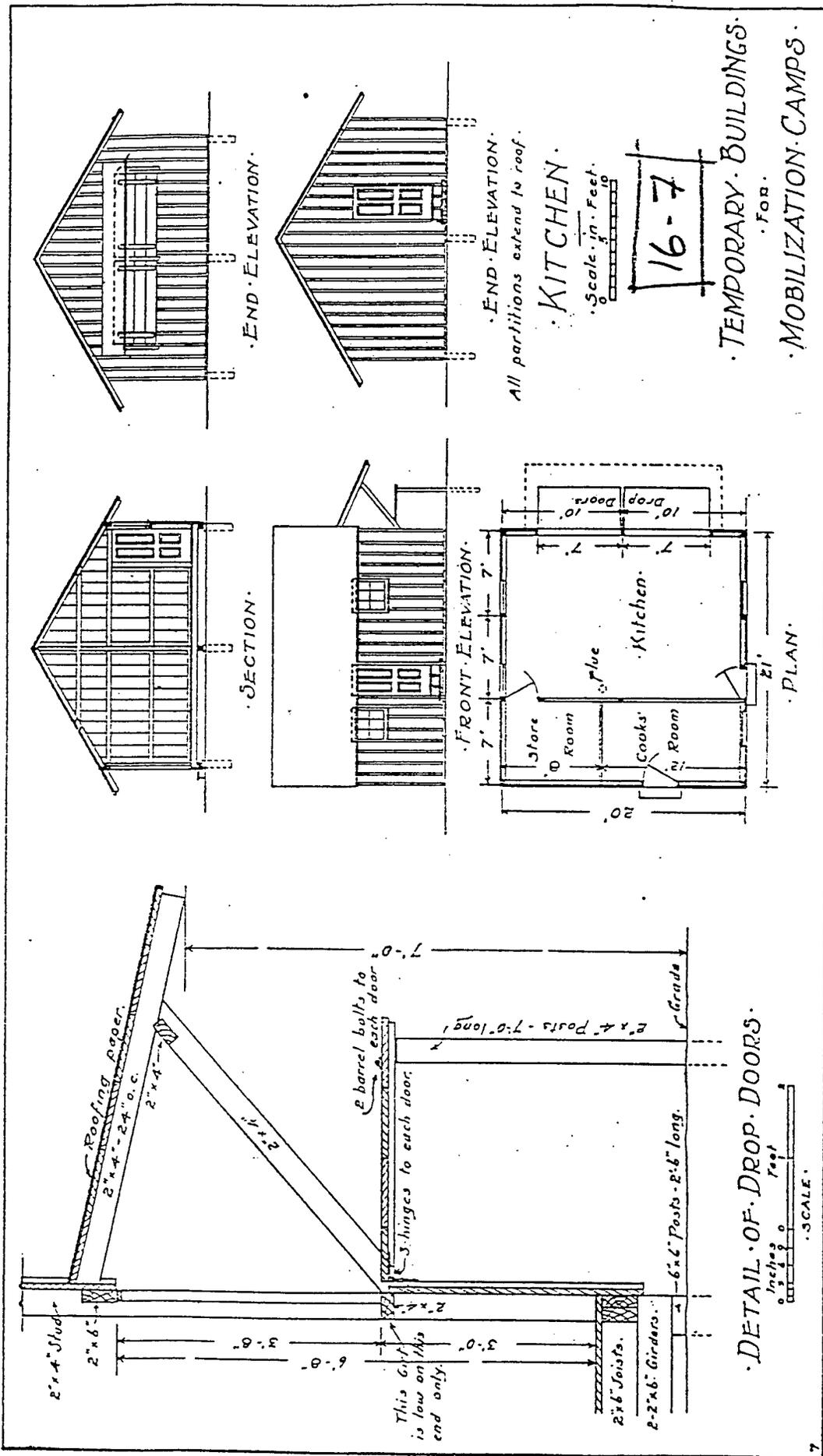
- | | |
|---|----------------------------|
| 25 BBL'S. CEMENT | 5 Pcs 2x6x16" WINDOW SILLS |
| 8 CY. SAND | 8 - 1x12x16" SHELVES |
| 8 CY. STONE | 4 - 1x12x12" |
| 24 POST PIERS | 2 - 1x12x10" |
| 12 Pcs. 4x4x14" SILLS | 8 - 1x12x18" TABLES |
| 5 - 4x4x16" STUDS & GIRTS | 7 - 2x8x18" |
| 30 - 2x4x16" | 21 - 2x4x16" |
| 12 - 2x4x16" PLATES | 18 PR. HINGES |
| 65 - 2x4x14" ROOF | 18 HOOKS OR FASTNERS |
| 40 - 2x4x16" | 10 LBS. 6d NAILS |
| 5 - 2x6x12" | 75 - Bd. |
| 10 LBS. ROOFING NAILS | 60 - 16d. |
| 1 LB. TACKS | |
| 20 Pcs. 2x4x16" LOUVERS AND CORNER BOARDS | |
| 4000 FT. B.M. 8" SHIPLAP-16 FT. WALL & ROOF | |
| 4 DOORS-2'6"x7'0" COMPLETE | |
| 18 Sqs. RUBBEROID ROOFING | |
| 23 Yds. 36" SCREENING | |
| 10 GALS. COLD WATER PAINT | |
| LABOR-CARPENTER-26 HOURS | |
| CONCRETE LABOR-50 HOURS | |
| PAINTER-24 HOURS | |



CROSS SECTION



PLAN



KITCHEN

Scale in Feet

16-7

TEMPORARY BUILDINGS
FOR
MOBILIZATION CAMPS

DETAIL OF DROP DOORS

1" = 6"
SCALE

Category: RESIDENTIAL

Type 9 c-1: Family Housing: Non-Commissioned Officers (NCO) Housing

Description:

The military constructed family housing to serve married officers and non-commissioned officers. By the mid-twentieth century, the Army had developed a family housing program for non-commissioned officers, while the Navy discouraged enlisted personnel and even petty officers from marrying. Army family housing is stratified according to rank. Non-commissioned officers family housing was located in separate areas on Army posts apart from the officers housing area and the parade ground. The housing generally was designed as simpler versions of the predominant architecture of an installation.

Evolution:

The Army provided few quarters for family housing before the Civil War. Permanent barracks and officer housing was constructed at installations, such as coastal fortifications, armament factories, education facilities, and some western posts, intended for use over several years. Non-commissioned officers typically were assigned single rooms within the enlisted men's barracks. Detached houses for non-commissioned officers and their families were not constructed until the second half of the nineteenth century. While the Army tolerated NCO marriages before 1940, it actively discouraged and even prohibited enlisted men from marrying until World War II.

NCO family housing was first provided for specific senior NCOs. The earliest examples included houses for the commissary sergeant, the ordnance sergeant, or the quartermaster sergeant. Early NCO quarters were constructed cheaply of available materials, such as the one-story, frame housing at Ft. Sill, Oklahoma. Other examples were constructed as simpler versions of the installation officer housing. In 1888, Congress approved budget allowances for the construction of hospital stewards quarters. Before this time, hospital stewards had lived in a room in the hospital building.¹⁵ After 1888, hospital stewards quarters were a typical component of hospital complexes on Army posts.

The Army made no systematic effort to provide standardized housing for noncommissioned officers before the 1880s. Plans for NCO housing were not included in the proposed 1860 regulations or in the 1872 proposed Quartermaster plans. The families of enlisted men found housing through a variety of expedients. The soldiers' wives who were employed as laundresses lived in a row of shacks. Other families divided unused barracks buildings into housing areas. As officer housing was improved, enlisted men and their families moved into abandoned officer quarters.¹⁶

¹⁵ Bethanie C. Grashof, *A Study of United States Army Family Housing Standardized Plans 1866 1940*, Vol. 1, Atlanta: Georgia Institute of Technology, 1986, 19-20.

¹⁶ Frank N. Schubert, *Ft. Robinson, Nebraska, the History of a Military Community*, Ph.D. diss., University of Toledo, 1976, 66-73.

The Army began to include permanent housing for senior NCOs at the larger consolidated installations constructed starting in the 1880s through the turn-of-the-century. The Quartermaster Department also began to develop standardized plans for NCO housing at this time. The Quartermaster Department built both detached single-family and duplex NCO housing. Duplexes were the most common housing type for NCOs between 1890 and World War I. Most installations during this era had no more than approximately half a dozen houses for NCOs and their families. NCO housing was located next to the area where the resident NCO worked. For example, the hospital steward's house was built next to the hospital. NCO housing was also constructed in distinct NCO housing areas, usually a few hundred feet behind the barracks. NCO housing in barracks areas typically consisted of a row of three to five houses. Unlike the barracks and officers quarters, NCO housing was not located around the parade ground.

During the 1920s, the Army suffered from a severe nationwide housing shortage. After a Congressional investigation into the living conditions at dilapidated World War I mobilization camps, Congress enacted Public Law 45 in 1926, which allowed the Army to dispose of unneeded property and to use the funds to improve the posts it retained. The initial funds were directed specifically for the construction of hospitals, barracks, and NCO housing. During this period of inter-war construction, the Army built more NCO family housing than ever before in its history.

The installation construction funded by this new program incorporated the ideas of city planning through the organization of the component parts of the installation into distinct hierarchical areas within an overall plan. A planner with the Planning Branch of the Quartermaster Corps compared the NCO housing area to the "office worker area" of a city.¹⁷ NCO family housing areas now constituted entire neighborhoods within increasingly large and complex installation plans. The Construction Service of the Quartermaster Corps developed standardized plans for NCO family housing that were comparable to small civilian suburban cottages and bungalows of the same era. The plans followed regional architectural styles, particularly the Spanish Colonial and Georgian Colonial Revival. The Army generally constructed the Georgian Colonial Revival from the Mid-Atlantic north to New England and west to the Northwest; the Spanish Colonial style housing was constructed in the hotter climates of the Southeast and Southwest. Two-story duplex NCO quarters remained popular, and one-story single-family cottages were introduced.

Association:

Non-commissioned officers quarters are associated with the maintenance of a standing Army and with the evolution of living standards for military personnel. The construction of non-commissioned officer housing directly reflects the history and status of the military during their period of construction. Non-commissioned officer housing provides an insight into the hierarchy of the military and contributes to cantonment historic districts. The design of non-commissioned officer housing reflects the influence of civilian architecture on military designs. NCO quarters

¹⁷ E. Mack Hallauer, "Landscaping the Army Post", *The Quartermaster Review*, July-August 1939, 28-31.

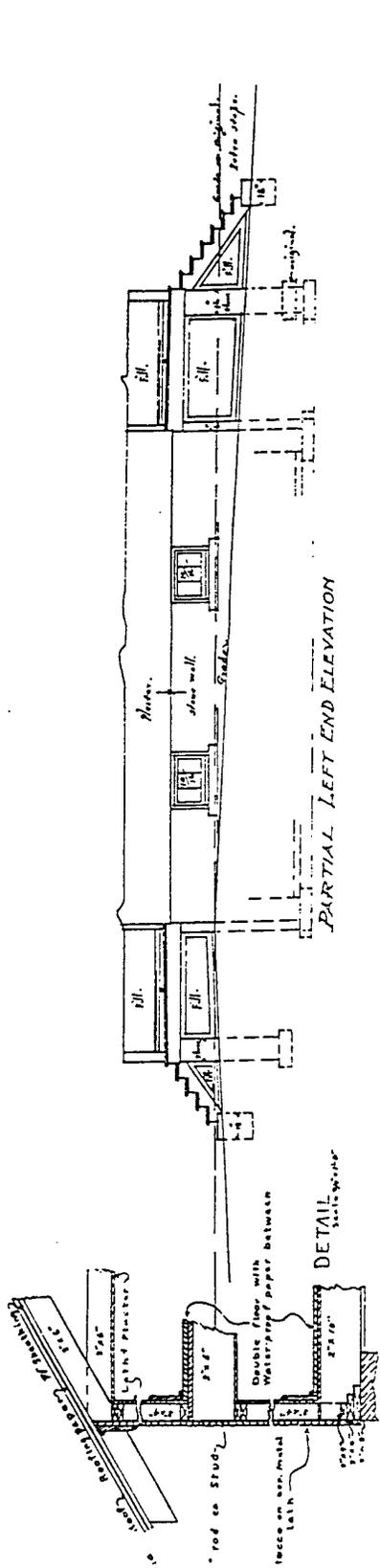
often are contributing elements in an installation historic district, or may constitute a distinct historic district. NCO quarters also may possess individual significance if it embodies the distinctive characteristics of a type or period of construction.

Integrity:

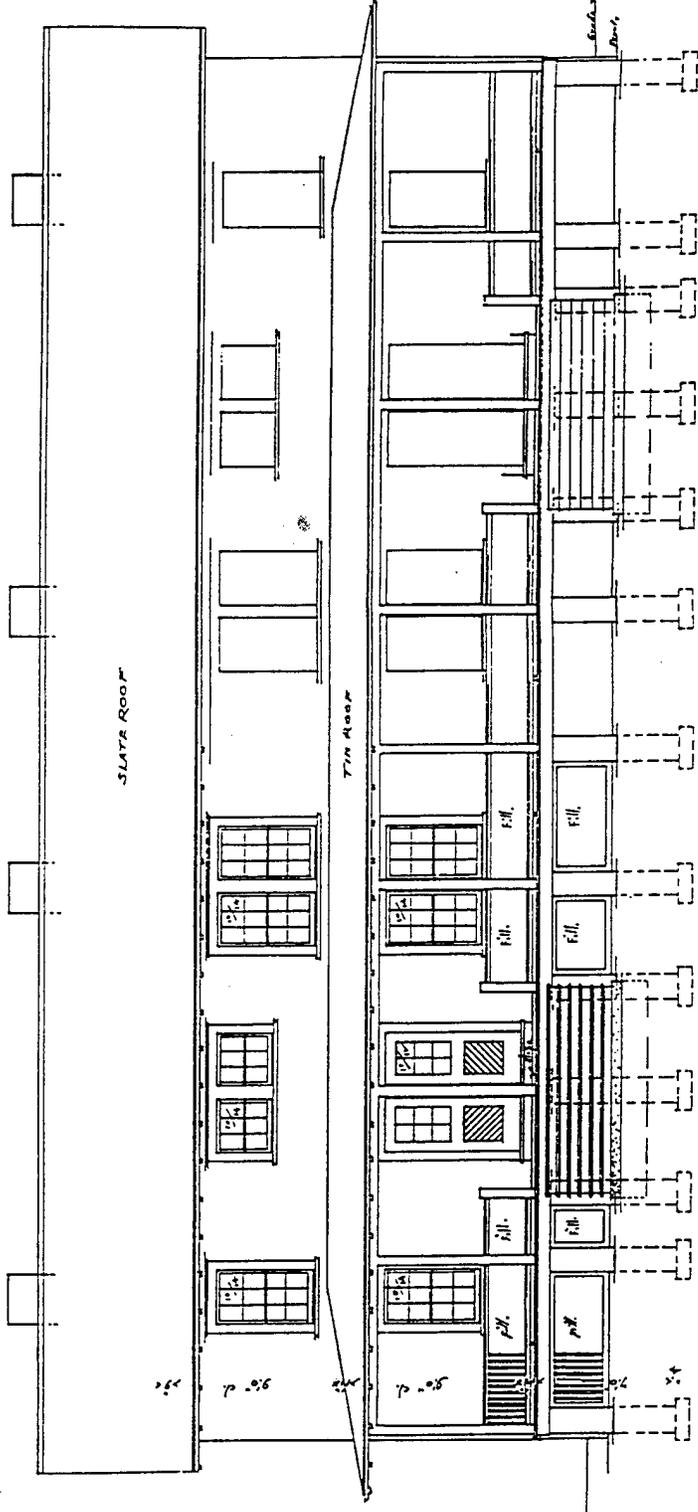
To possess integrity, non-commissioned officer housing should retain its location and most of its design, setting, materials, workmanship, and association from the period of significance of the property. Most NCO quarters have been used as dwellings throughout their history. The buildings often have undergone modifications to meet modern living standards. Typically modified exterior features include porches, windows, and roof materials. In cases of subsequent additions or alterations, NCO housing still may have integrity if it retains its setting, overall design, the majority of its materials, and the majority of its architectural features.



1930's NCO Quarters at Aberdeen Proving Ground, MD



PARTIAL LEFT END ELEVATION

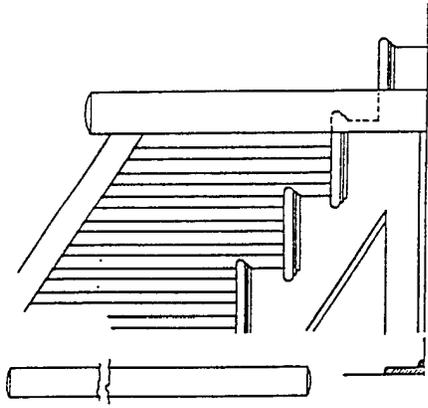


FRONT ELEVATION
SCALE 1/4" = 1'-0"

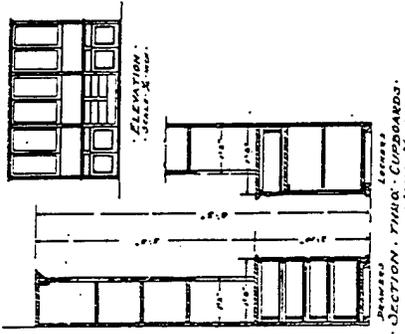
SHOWING CHANGES IN GRADA, FOUNDATIONS, ETC.

FOUR SET. CIVILIANS QRS.
FORT RILEY, KANS.
OFFICE CON. Q. M. DEPT. 1909.
RECONSTRUCTED.
BLDG. # 189

Sheet-1
V File A 2-16
1059-01CT



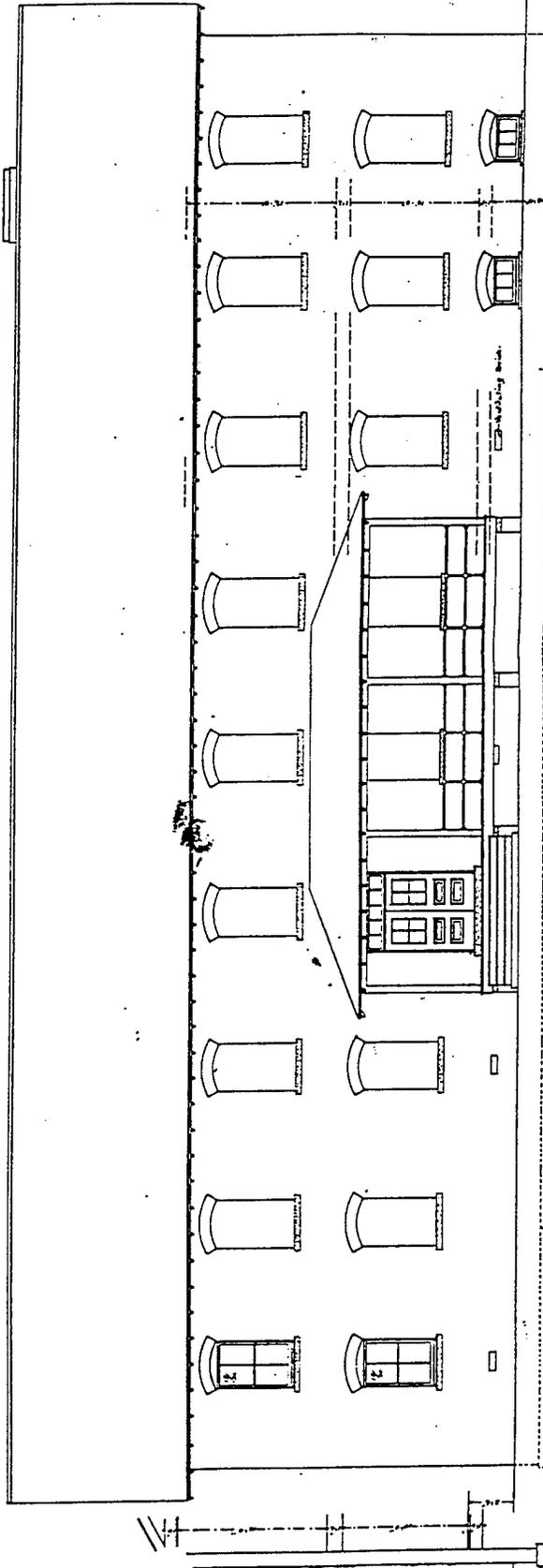
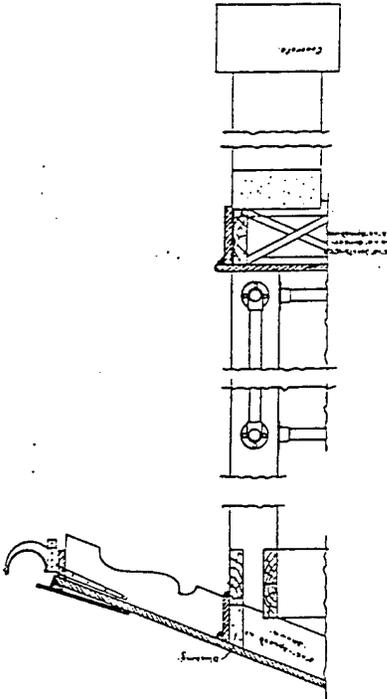
DETAIL - B - STAIRS
Scale: 1/8" = 1'-0"



SECTION - WINDOW - CURTAINS
Scale: 1/2" = 1'-0"

ELEVATION - STAIRS

DETAIL - A - PORCH
Scale: 1/8" = 1'-0"



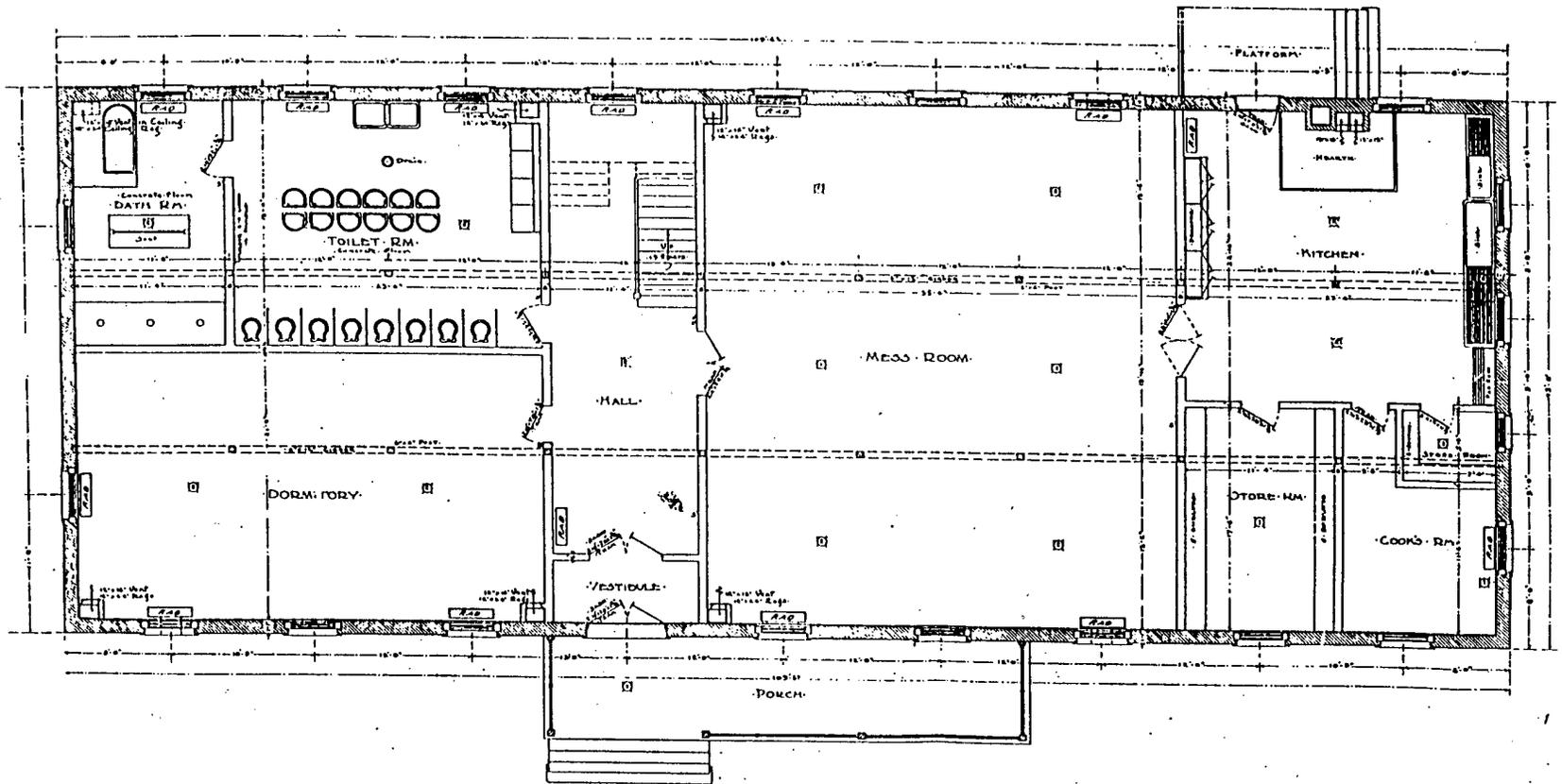
FRONT ELEVATION
Scale: 1/4" = 1'-0"

SHEET No 4
256

CONSULTING ENGINEER
STRAUB AND COMPANY

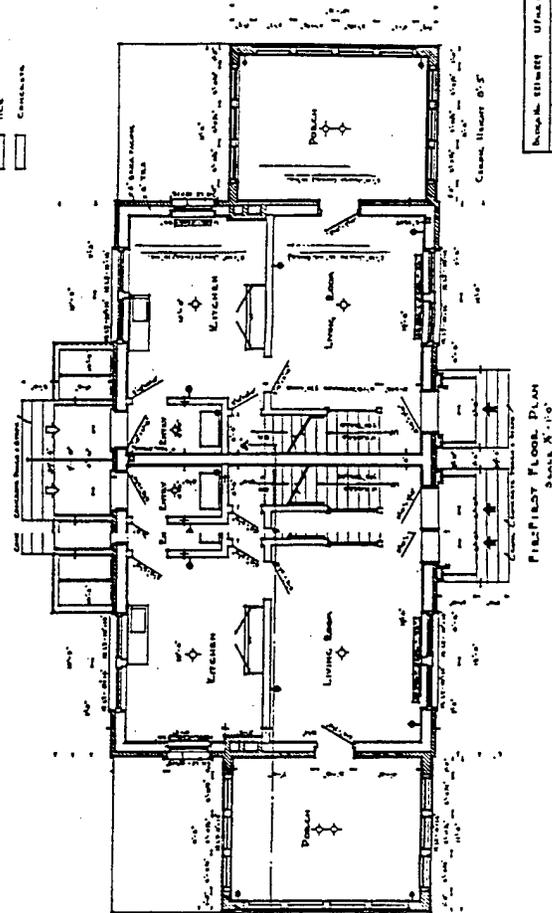
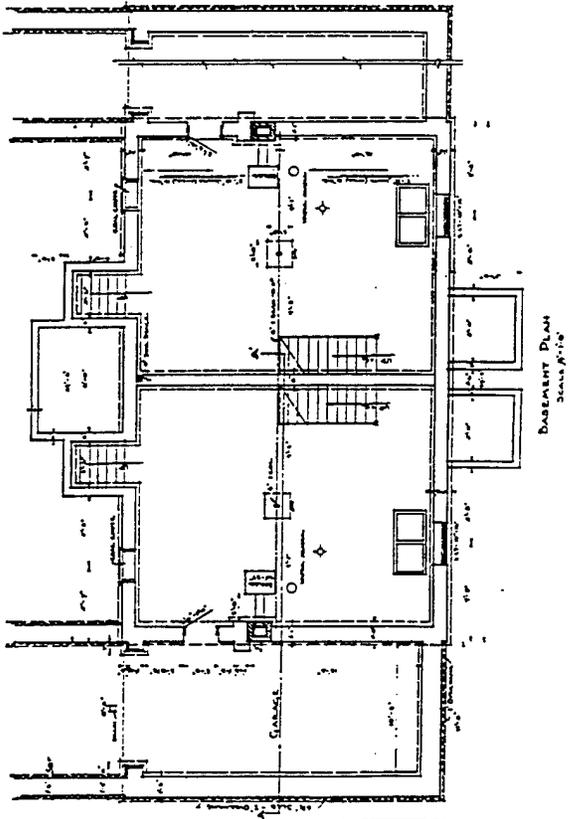
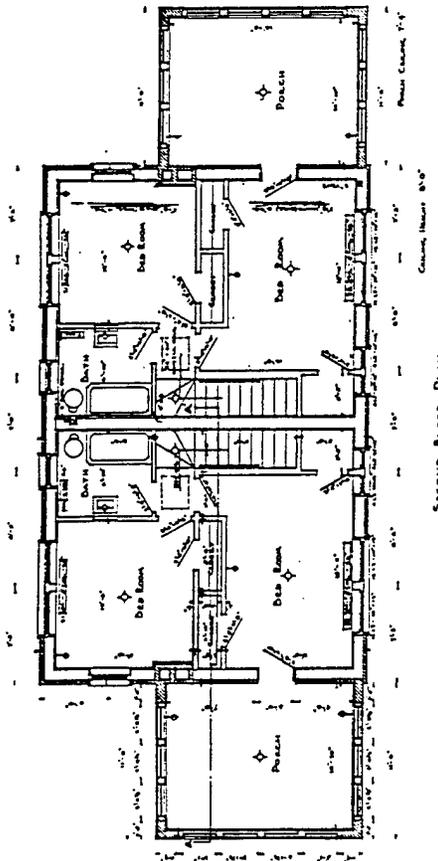
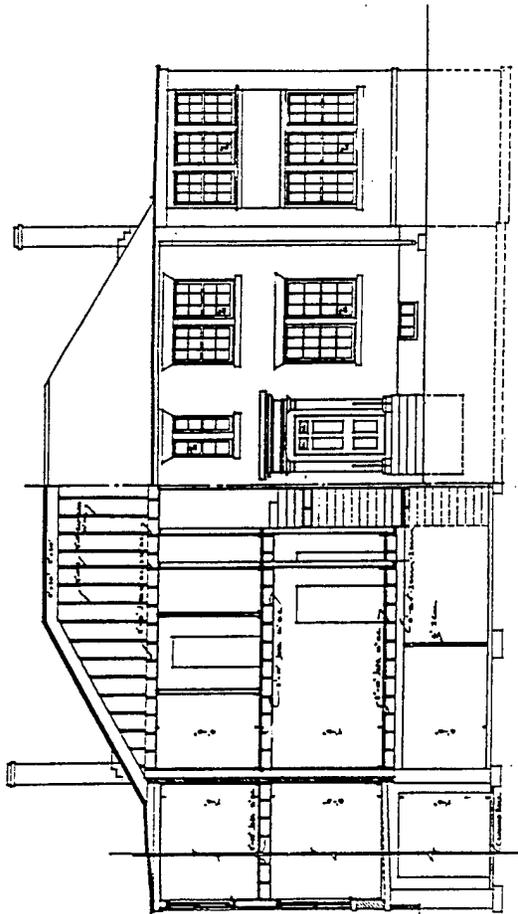
QUARTERS FOR
CIVILIAN EMPLOYEES

HO 330-04, CIV. Q.M.G.O. JULY, 1909.



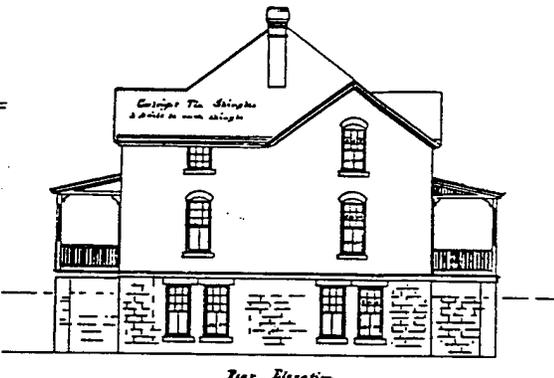
PLAN OF FIRST FLOOR
SCALE: 1/4" = 1'-0"

SHEET No 2. 256.
CONSTRUCTION SHEET
YEAR RELATIVE SHEET No.
QUARTERS FOR
CIVILIAN EMPLOYEES
Q.M.G.O. JULY 1909.
h0 330.02.cit

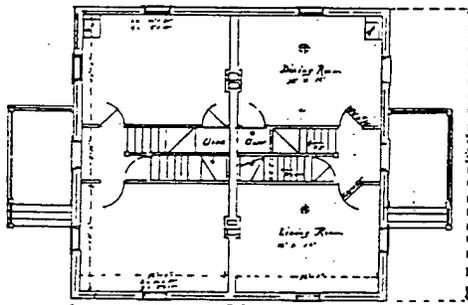


| | |
|-------------|----------------------|
| Prepared by | Office of the A.S.T. |
| Checked by | Office of the A.S.T. |
| Approved by | Office of the A.S.T. |
| Date | June 1954 |
| Project No. | 415-01-C11 |
| Sheet No. | 1 of 1 |

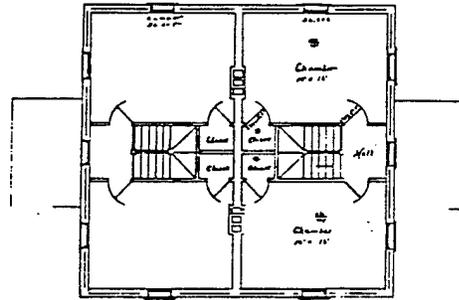
NO 415-01-C11



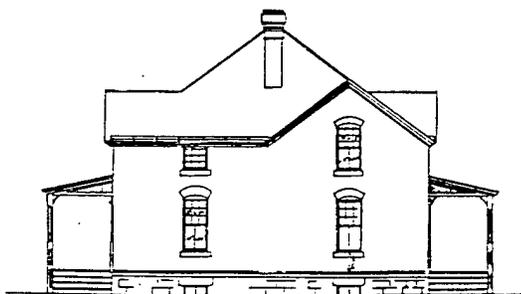
Rear Elevation



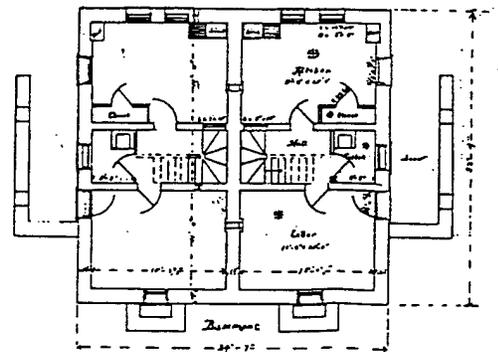
First Floor



Second Floor



Front Elevation



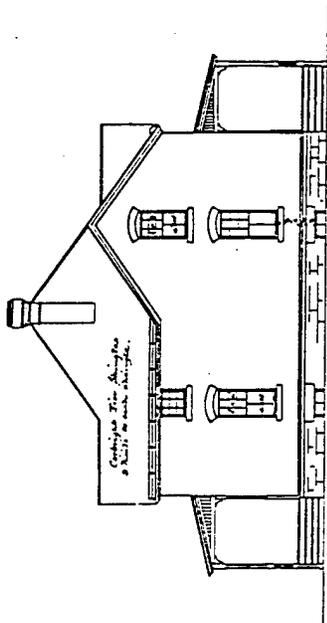
Basement

Non-Commissioned Officers Quarters
at
Fort Riley, Kans. Scale 1/8" = 1'

Quarters marked by design are
Commissioned Sergeants
Sheet-1
U. S. File A 2-10

165

MO165.01.C17



Front Elevation

Mr. Commissioner Officers Quarters

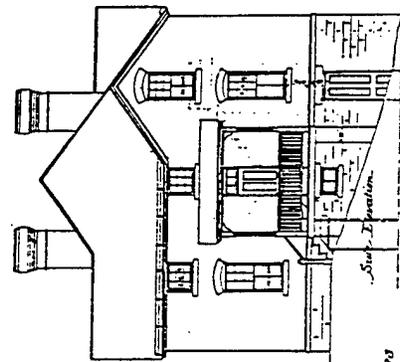
at

Fort Myg, Xmas.

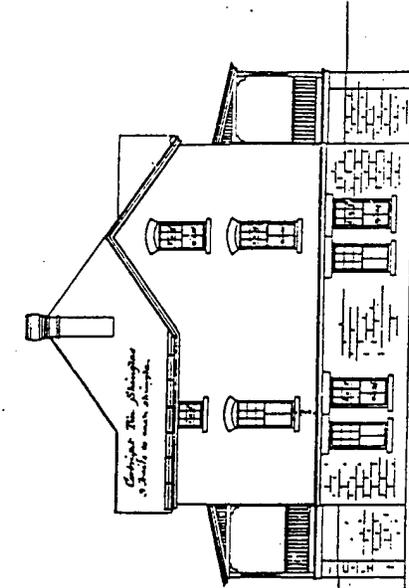
Capt. Geo. F. Thayer

A.P.C. 1134

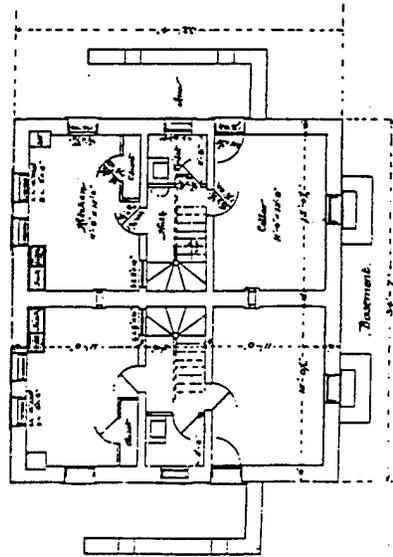
Scale 3/8" = 1'



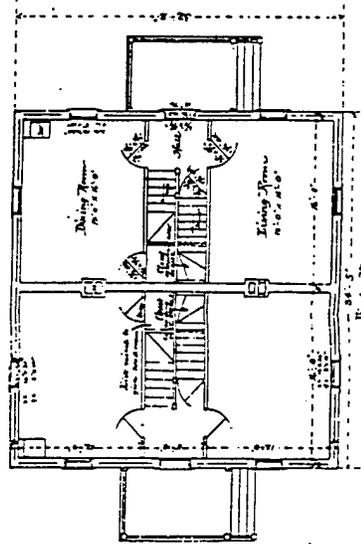
Side Elevation



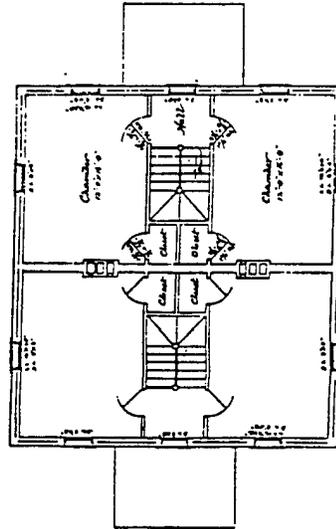
Rear Elevation



First Floor



Second Floor



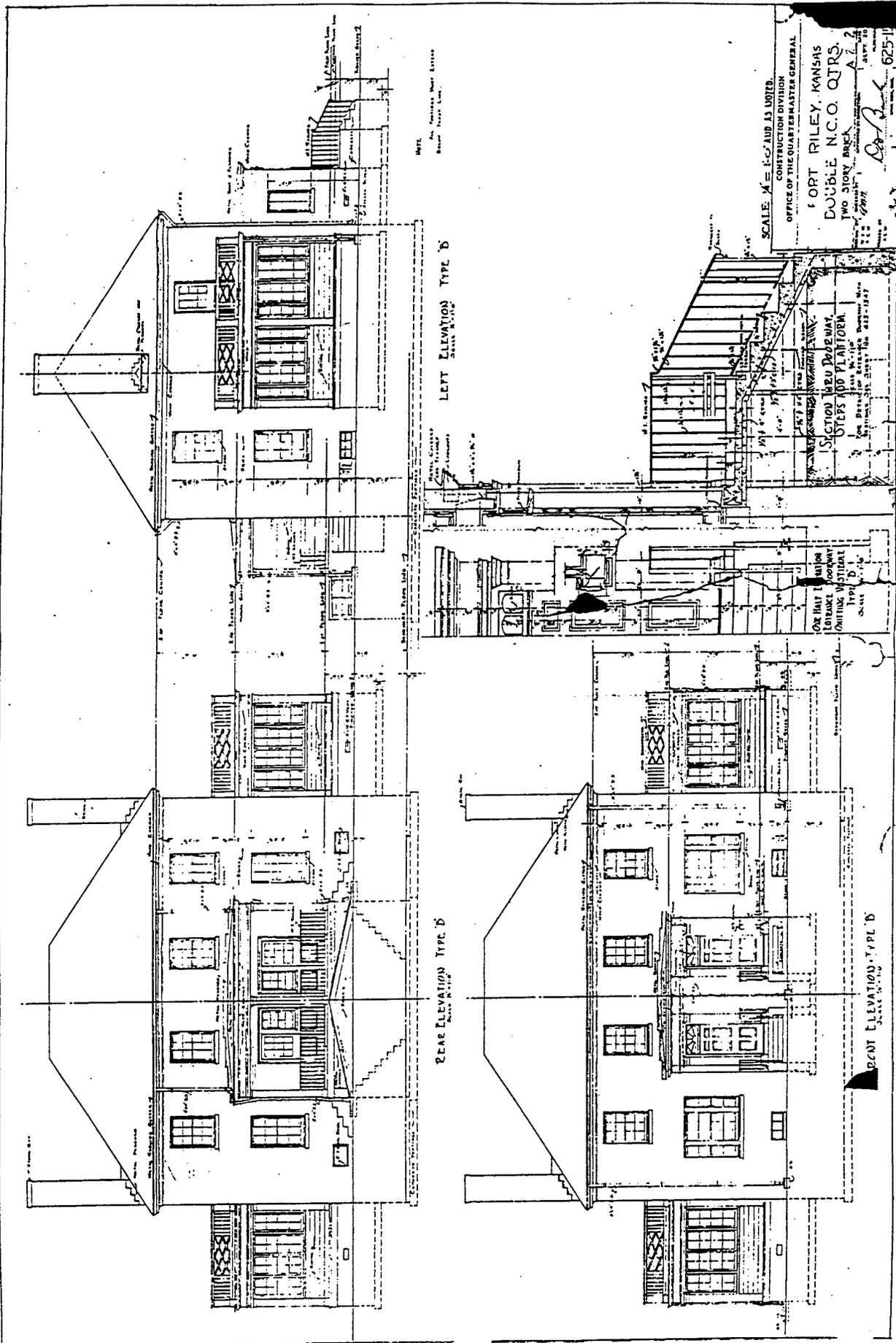
Third Floor

Sheet 2

V. File A 12-10

118165-02.CIT

no 165_02.cit



SCALE: 1/8" = 1'-0" AND AS NOTED.
 CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL
 FORT RILEY, KANSAS
 DOUBLE N.C.O. QTRS.
 TWO STORY BRICK
 A-12
 625-11

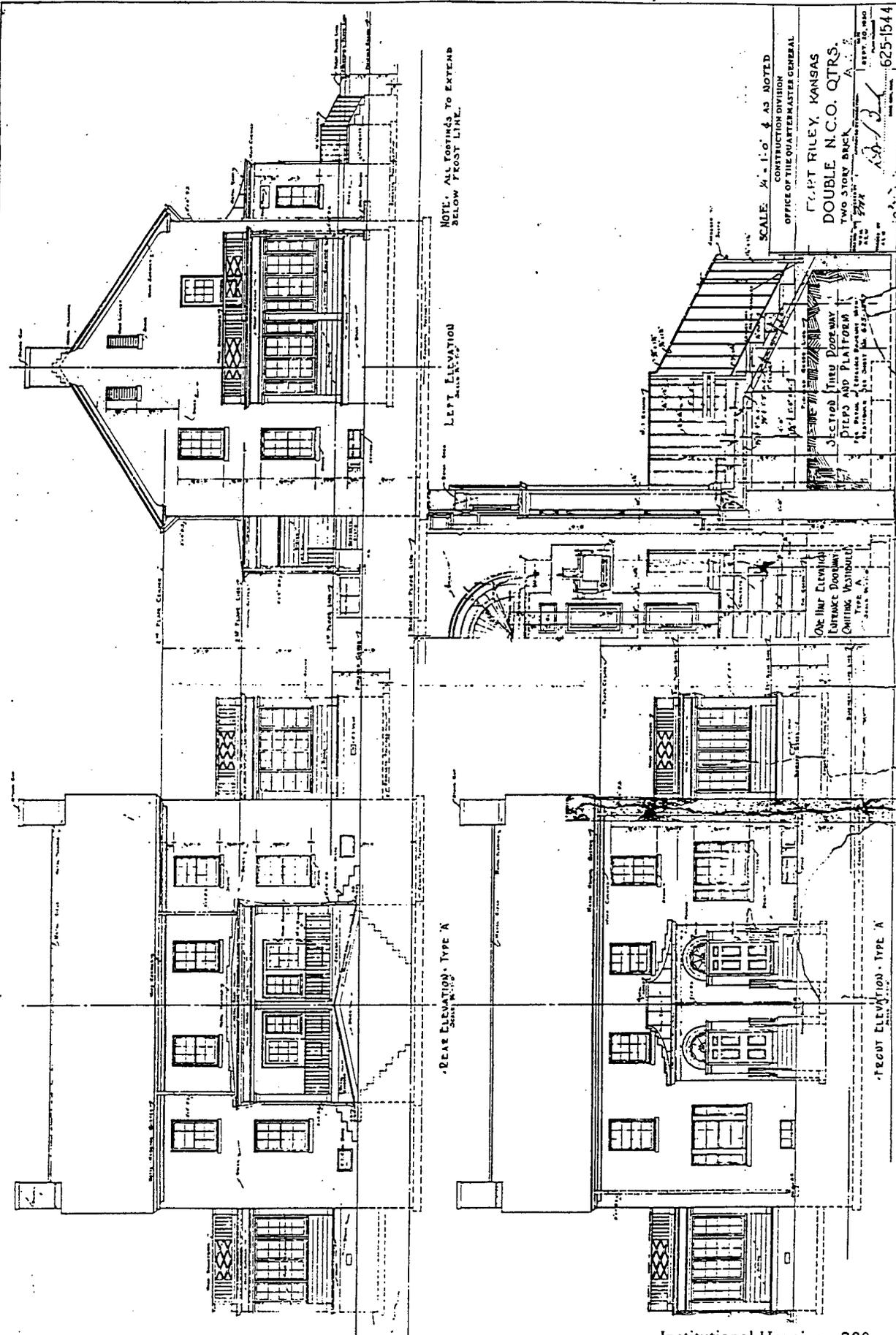
LEFT ELEVATION TYPE D
 SCALE: 1/8" = 1'-0"

REAR ELEVATION TYPE D
 SCALE: 1/8" = 1'-0"

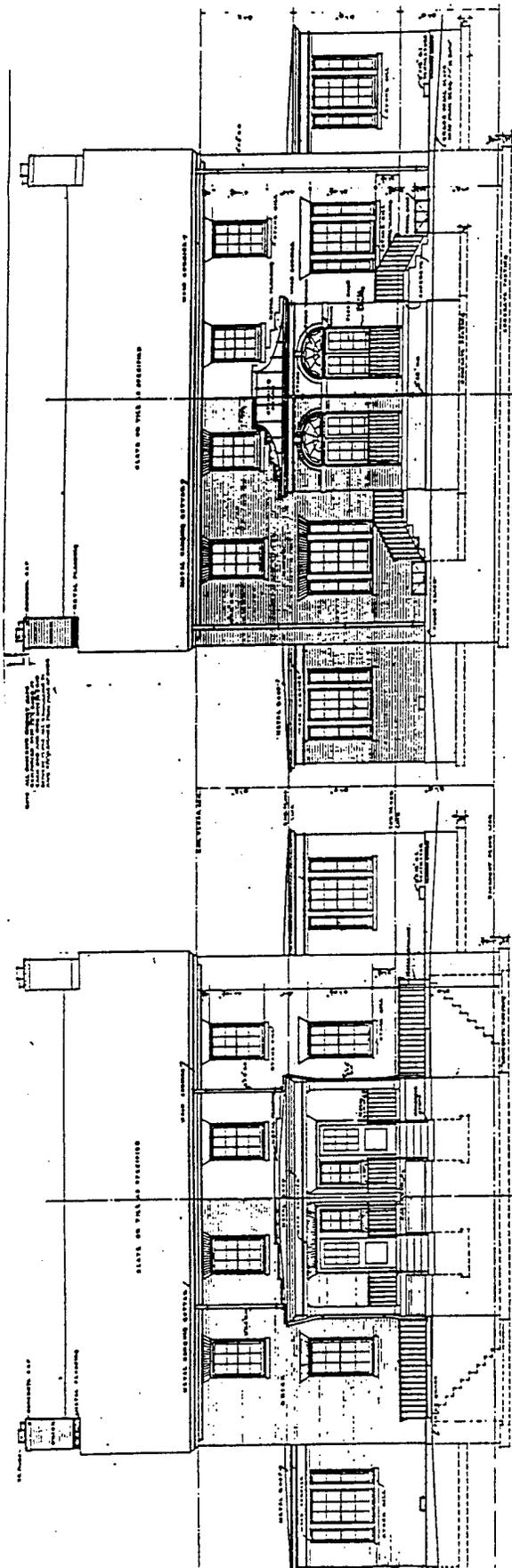
FRONT ELEVATION TYPE D
 SCALE: 1/8" = 1'-0"

SECTION THROUGH DORMER AND PLANT ROOM
 SCALE: 1/8" = 1'-0"

ONE HALF SECTION THROUGH ENTRANCE PORCH AND PLANT ROOM
 SCALE: 1/8" = 1'-0"

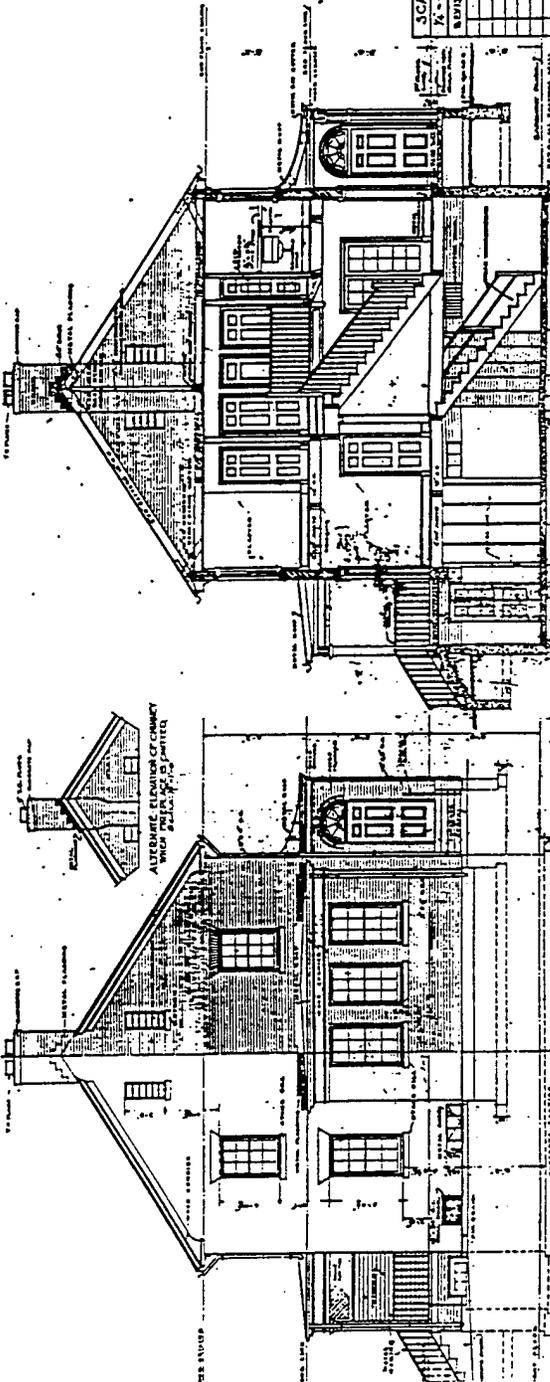


SCALE: 1/4" = 1'-0" & AS NOTED
 CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL
 CAPT RILEY, KANSAS
 DOUBLE N.C.O. QTRS.
 TWO STORY BRICK
 REC 2727
 625-1544
 NO 157.02.C1



FRONT ELEVATION TYPE 'A'

REAR ELEVATION TYPE 'A'

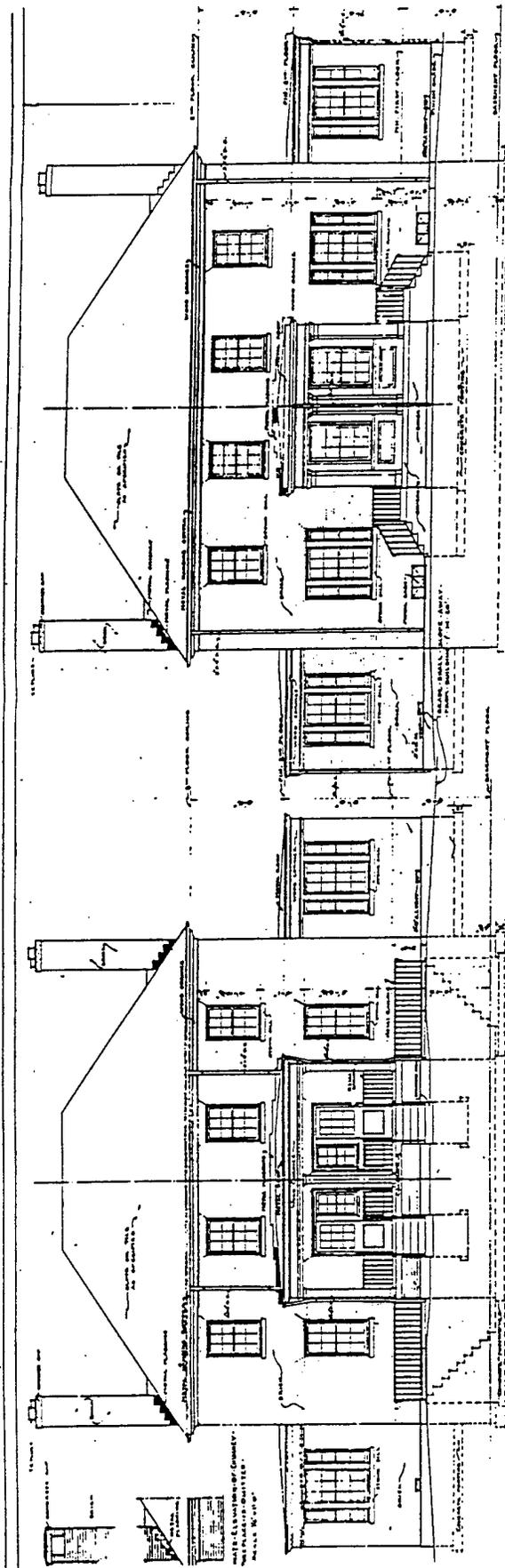


SECTION THROUGH HOUSE

LEFT SIDE ELEVATION TYPE 'A'

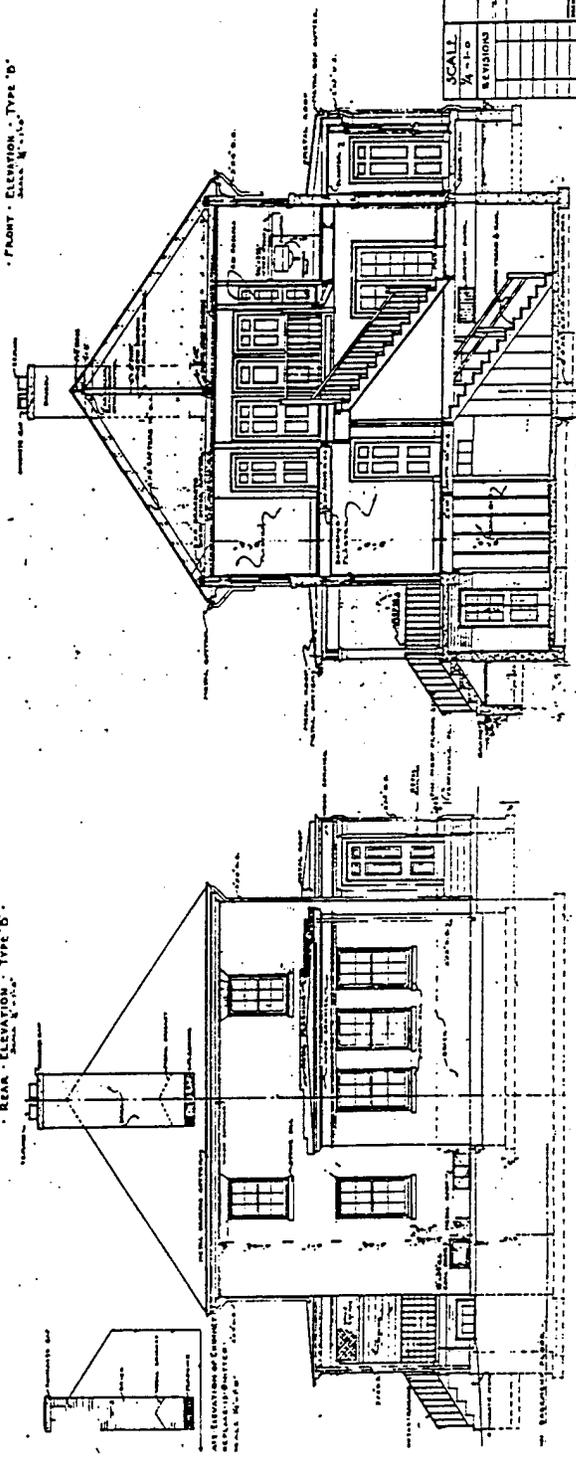
321-3-3-11 R-2-5

| | | |
|--------------|-------------------------------------|---|
| SCALE | CONSTRUCTION DIVISION | HOBBS, REELEY & KANSAS DOUBLE N.C.O. QTRDS. ELEVATIONS TYPE 'A'. TWO STORY BRICK |
| 1/4" = 1'-0" | OFFICE OF THE QUARTERMASTER GENERAL | |
| REVISIONS | DATE | NOV 1918 |
| | BY | 625-3571 |



FRONT ELEVATION TYPE B

REAR ELEVATION TYPE B



SECTION THROUGH HOUSE SHOWING TYPE B VESTIBULE

LEFT SIDE ELEVATION TYPE B

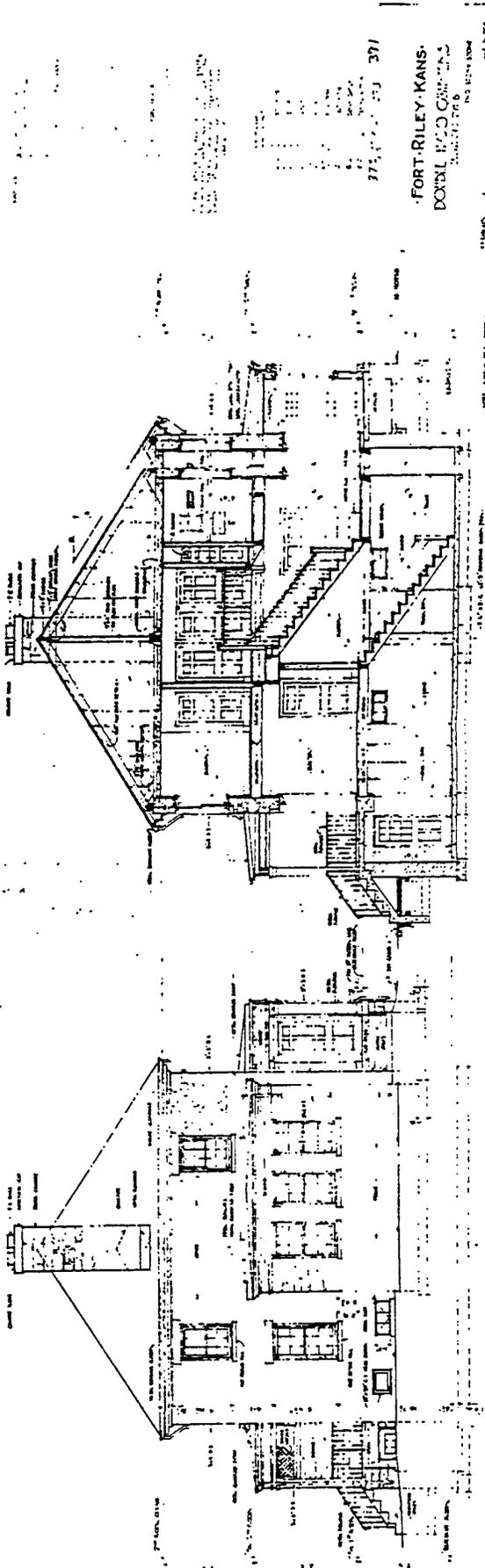
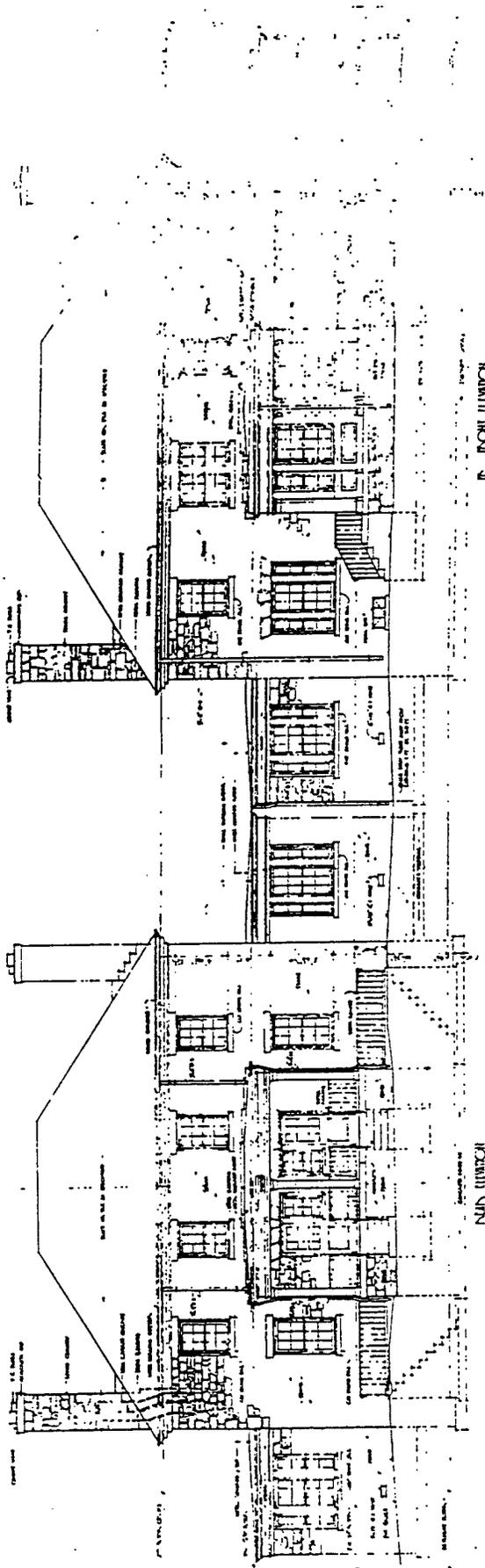
1:2
1:3

291-234

12-5

| | |
|--------------|-------------------------------------|
| SCALE | CONSTRUCTION DIVISION |
| 1/4" = 1'-0" | OFFICE OF THE QUARTERMASTER GENERAL |
| REVISIONS | FORT RILEY, KANSAS |
| | DOUBLE N.C.O. QTRS. |
| | ELEVATIONS TYPE B |
| | TWO STORY BRICK |
| | MAY 1913 |
| | 625-3571 |

111
NO 151.04.C17

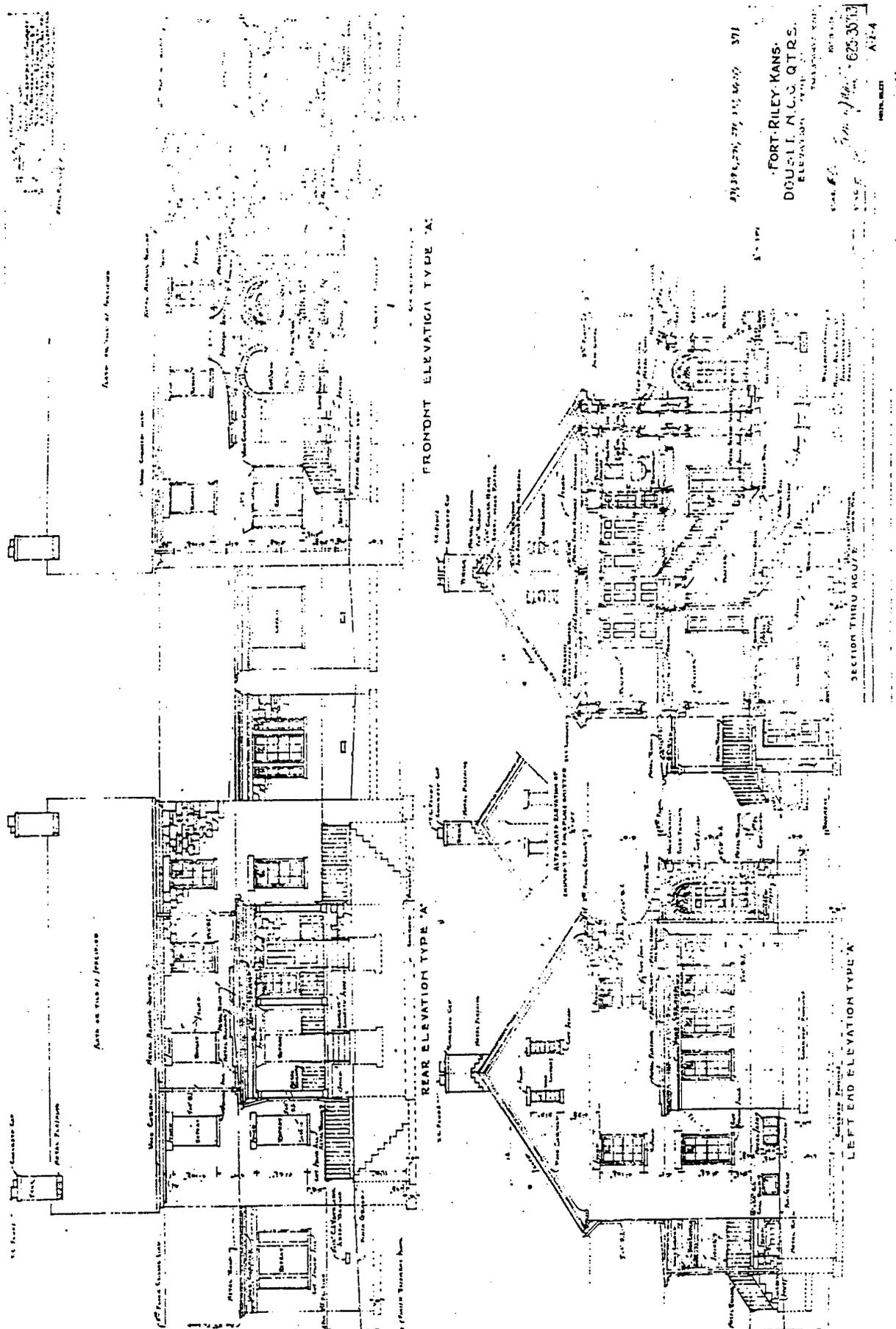


375 1/2 371

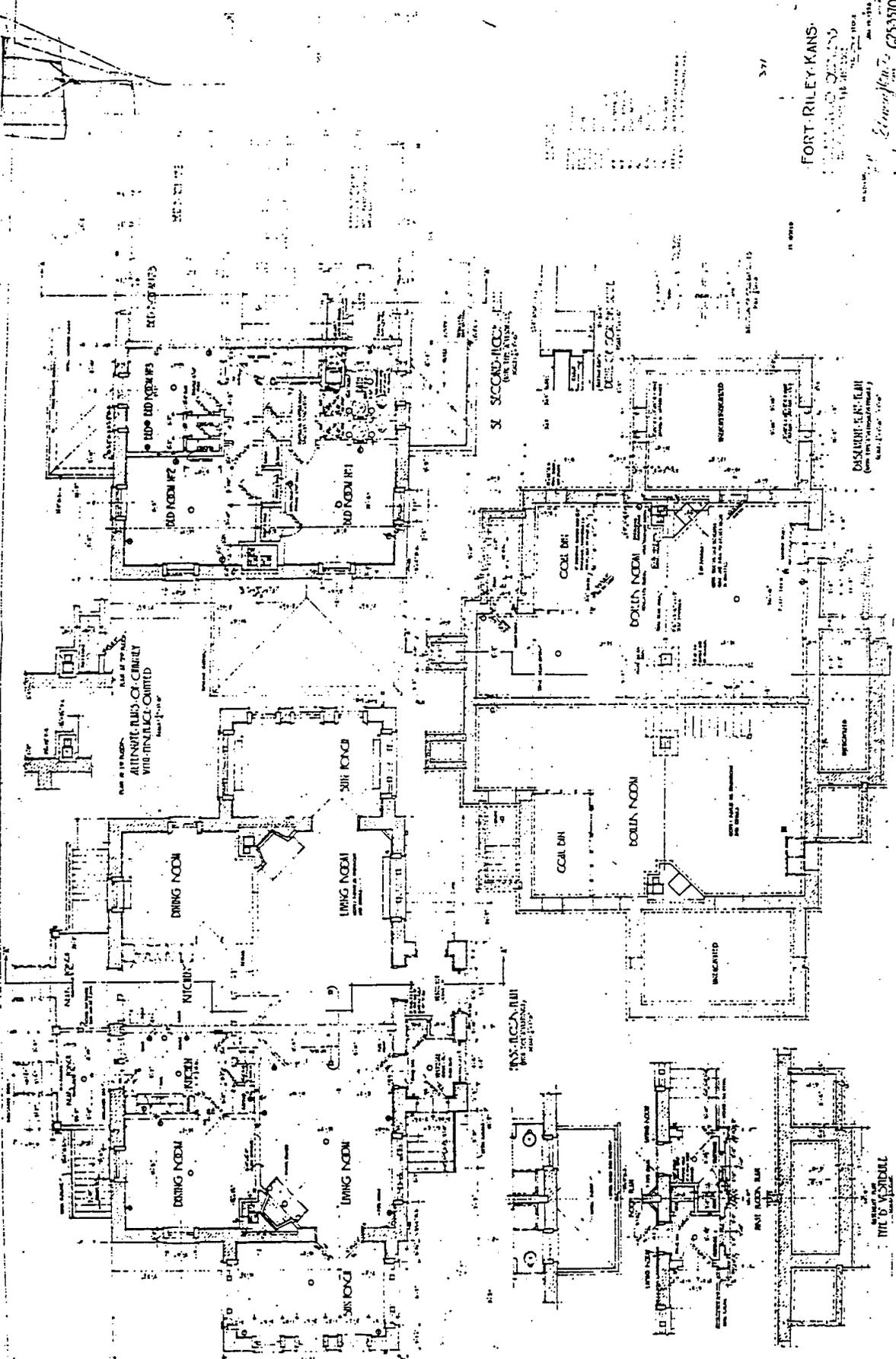
FORT RILEY, KANS.
 DOWELL BROS COMPANY
 ARCHITECTS
 1100 W. 12TH ST.
 TOPEKA, KANS.

NO. 125,065
 625,5123
 A-3-A

125 125,065.c11

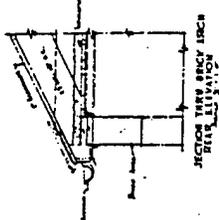
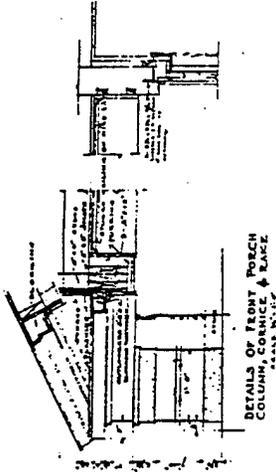
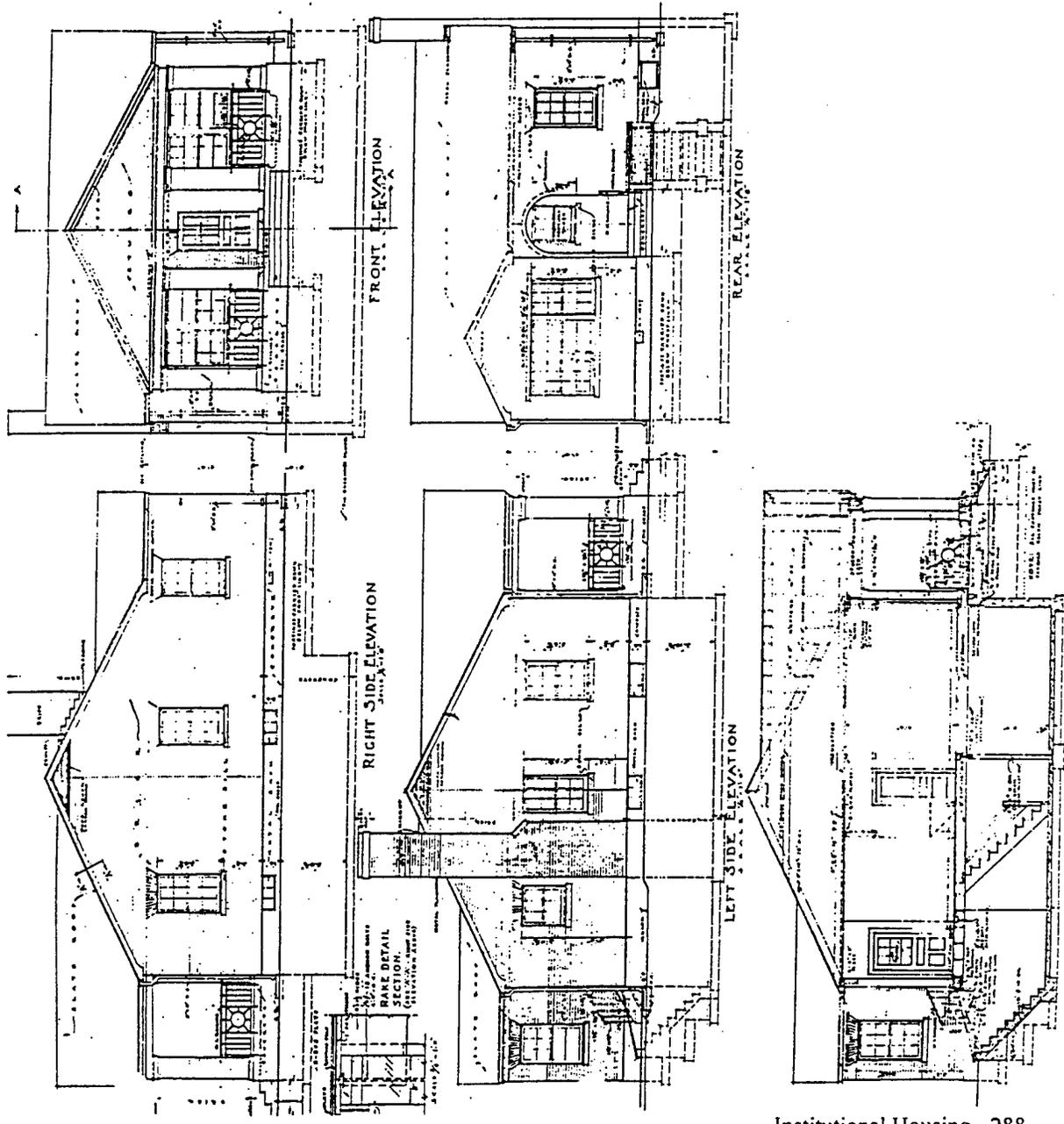


271,374,275, 276, 315, 36-37 371
 FORT RILEY, KANS.
 QUARTERS
 ELEVATION
 SCALE 1/8" = 1'-0"
 DATE 1/10/20
 625-3571
 A-1-4
 1115



FORT RILEY, KANS.
 INSTITUTIONAL HOUSING
 PROJECT NO. 287
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]
 111 125.01.011

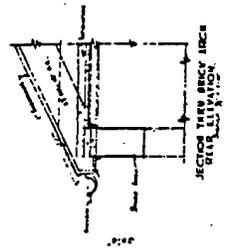
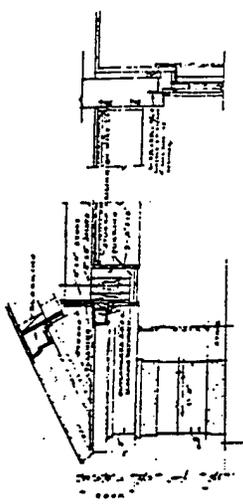
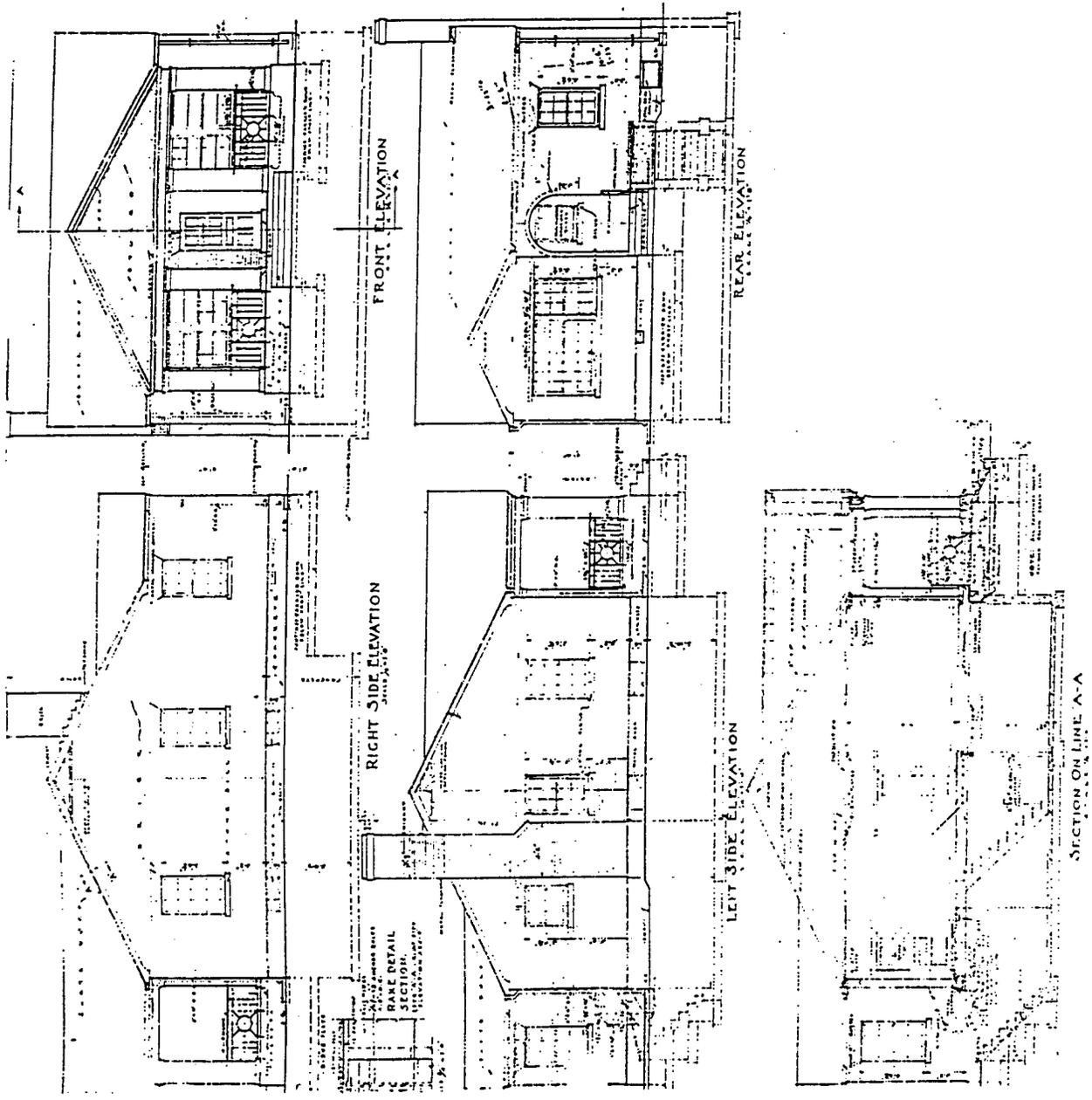
Institutional Housing - 287



NOTE:
THIS DRAWING SUPERSEDES
DRAWING No. 625-1530

SCALE: AS NOTED A3-4

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
360-1-2-3-4-5
N. C. O. QUARTERS
TYPE "C" BRICK
625-1556
NOTES: 04.GIT



NOTE:
 THIS DRAWING SUPERSEDES
 DRAWING No. 625-1530

SCALE: AS NOTED A-3-4

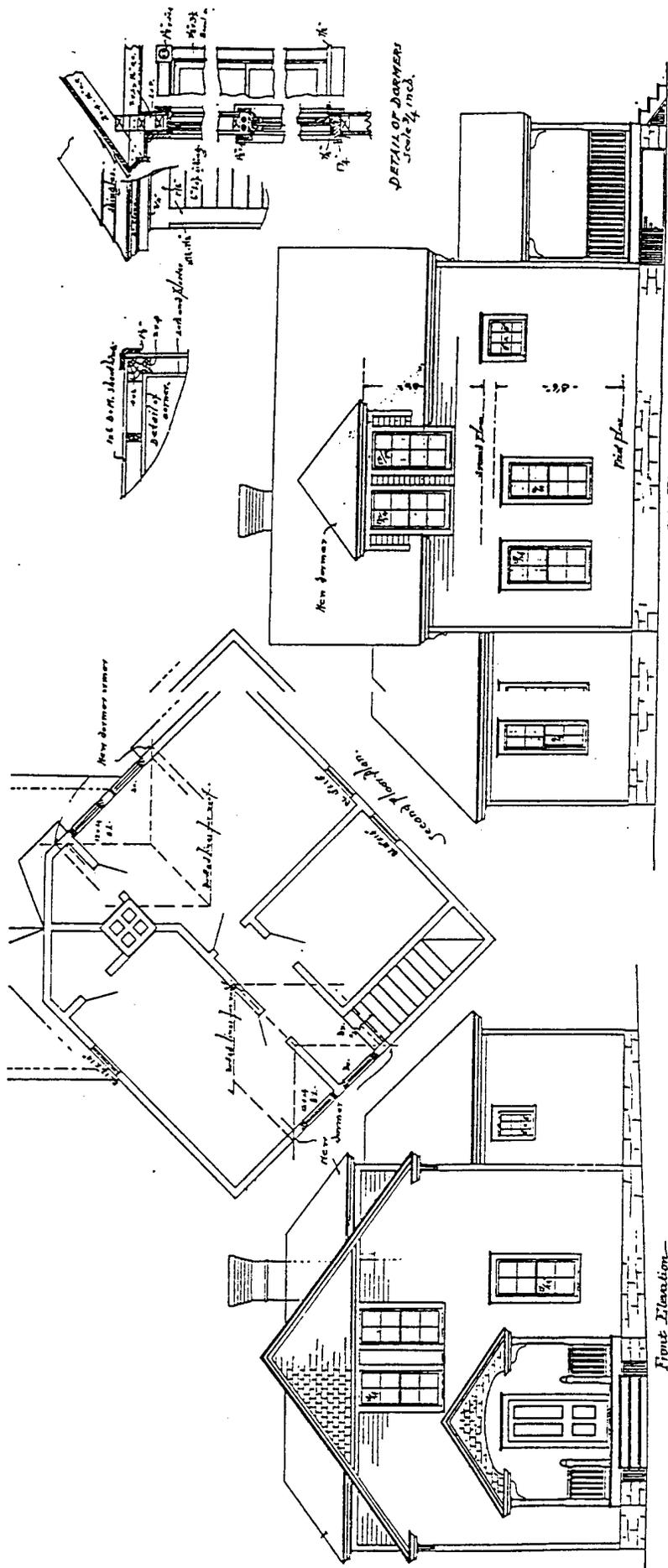
CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL

369-1-2-23-24-5

N.C.O. QUARTERS

| | |
|----------------------------|---------------------------|
| DESIGNED BY [Signature] | CHECKED BY [Signature] |
| DRAWN BY [Signature] | DATE FEB. 1924 |
| PROJECT NO. 625-1556 | NOTES NOTES |

10755.06.CIT



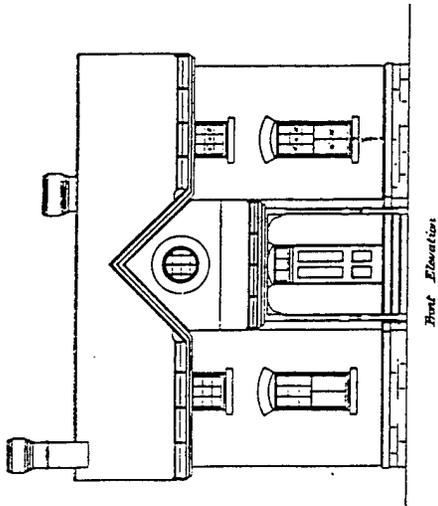
Frame Quarters for Noncommissioned Officers. Bldg. 707.

Site Plan, Plans.
Scale 1/4" = 1'-0"

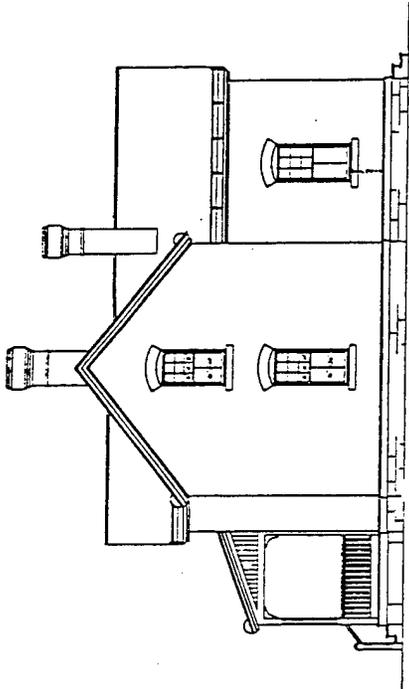
CON. ARCH. OFFICE, OFFICE JUNE, 1930. SHEET-2 OF FIG. A18-7

397

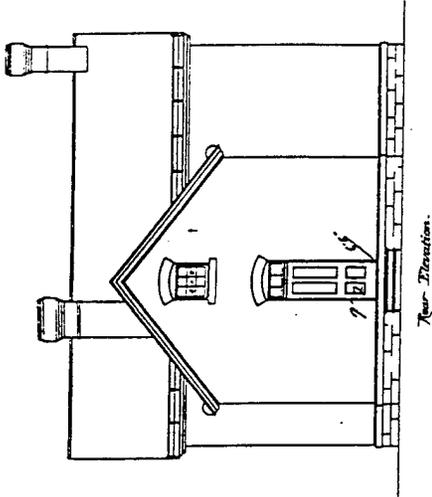
118587-52.511



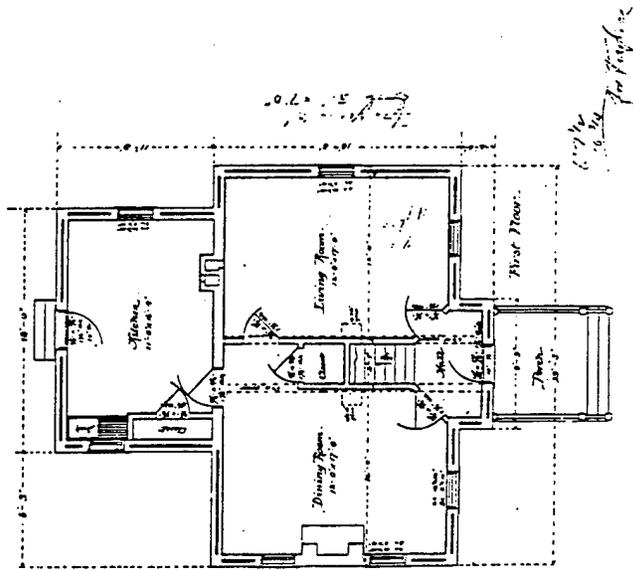
Front Elevation



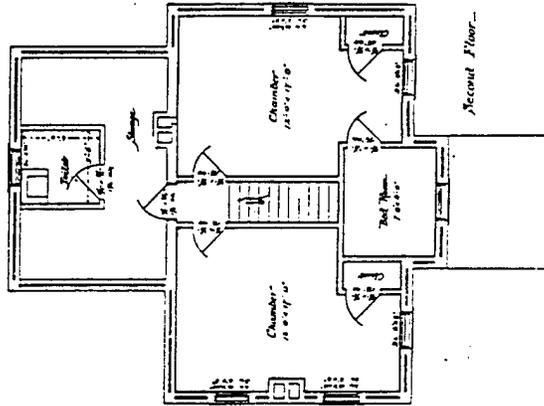
Side Elevation



Rear Elevation



First Floor



Second Floor

Quarters A. Slocum, Spading Engineer
 1125 1/2 Ave. N. W.
 S.W. 73
 Cap. One 2700.
 1125 1/2 Ave. N. W.
 S.W. 73
 File A-2-6

Category: RESIDENTIAL

Type 9 c-2: Family Housing: Officer Housing

Description:

The military constructed officer family quarters on the majority of its installations with residential populations. Officer housing is stratified according to rank. Each installation generally had one house for the commanding officer and additional housing for other officers. Officers quarters were a prominent component of military installations and usually were major buildings on installations. Their architectural character reflected their period of construction and the anticipated permanence and importance of the installation. Simple houses were built at frontier posts, while departmental headquarters or shipyards often received larger, more ornate senior officer housing. The evolution of officer housing illustrates the military's adaptation of contemporary architectural trends in the military's construction program.

Evolution:

The Army began to construct family housing for officers at its permanent installations during the early nineteenth century. The earliest officers quarters were built at permanent installations such as coastal fortifications, armament factories, education facilities, and permanent western posts. The small size of the garrisons posted to these early installations necessitated few quarters. The earliest quarters display diversity in size and architectural detailing, depending on available funding and the rank of the resident. Installations generally included a single-family dwelling for the commanding officer and multiple-family dwellings for junior officers.

The Army began to develop standardized plans for many basic property types, including officers housing. In 1860, unofficial regulations for Army construction were drafted that included plans for officer housing. The 1860 regulations, though never officially adopted, seem to have recorded existing Army construction and housing practices. The assignment of quarters according to rank is clearly established. The 1860 proposed regulations prescribed single quarters for field officers and captains, and duplex housing for junior officers. The plans depict houses with simple features that could be constructed from a variety of local materials. The 1860 proposed regulations also contained a prototypical post plan, which depicted officer housing along the side of the parade ground facing the barracks.¹⁸ During the nineteenth century, this was the typical location of officer housing.

In contrast with the concurrent effort at standardization, special branches within the Army were responsible for the construction of their installations and did not employ the Quartermaster Department or Quartermaster plans. For example, officers of the Ordnance Department were responsible for the construction of arsenals. Due to higher levels of funding and lack of standardization, Ordnance Department installations sometimes displayed grander and more

¹⁸ War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*, 1-2, 7.

varied design than commonly was found at other Army posts. Thomas Rodman designed Watertown Arsenal, Massachusetts, and Rock Island Arsenal, Illinois. The imposing, stone, Italianate commanding officers residence at Rock Island, completed in 1871, has over fifty rooms and is the largest family quarters owned by the Army.¹⁹

In 1872, the Quartermaster General, Montgomery C. Meigs, proposed standardized plans for post construction, including officer housing. Meigs hoped to control costs and to establish consistent construction standards at the expanding number of Army posts. Western frontier posts were particularly notorious for their poor living conditions. The plans for officers quarters in the 1872 proposed plans are larger and show more attention to architectural detailing than the 1860 plans.²⁰ Quarters were constructed at many western posts, sometimes as depicted in the plans, as at Ft. Sill, Oklahoma, and sometimes with local variations on the exterior, as with the Gothic Revival version of the standard plan built at Ft. Douglas, Utah.

During the 1880s and 1890s, the Army began to close the numerous small, scattered, temporary western posts and to consolidate its troops into larger, permanent posts. The Army initiated major building projects for new facilities and for expansion of older posts that were retained. The Quartermaster Department made a concerted effort to construct buildings of greater architectural stature that projected an increased awareness of the prestige of the military. In some cases, professional architects were employed to design installations. These architects designed larger, more elegant officer housing in contemporary, nationally popular architectural styles, including Italianate, Romanesque Revival, and Queen Anne.

During the late 1890s, the Army began another effort to standardize officer housing for better cost control. Beginning in the late 1890s and continuing through the first decade of the twentieth century, the Army constructed the same officer housing, designs on most Army posts with very little individual modification. Colonial Revival architecture dominated Army construction of this era. Like their civilian contemporaries, the early examples of Colonial Revival architecture at Army posts are not historically accurate re-creations of early American architecture, but interpretations that mix colonial precedents with some elements of the Queen Anne and other eclectic styles. Character-defining features of Army housing of this era include cornices with dentil molding, pediments, columns, and jack arches over windows. In the west and southwest, the Quartermaster Department experimented with Spanish Colonial and Mission architectural styles.²¹

The Army also issued regulations in the early twentieth century to standardize the assignment of quarters. These regulations helped to limit the circumstances under which a senior officer could displace a junior officer from his quarters. The regulations directed the post quartermaster to assign quarters to each officer according to his rank. At posts with insufficient housing, the

¹⁹ Thomas J. Slattery, *An Illustrated History of the Rock Island Arsenal and Arsenal Island, Part Two*, Rock Island, Illinois, Historical Office, U.S. Army Armament, Munitions and Chemical Command, 1990, 44.

²⁰ War Department, *Annual Reports of the Quartermaster-General*, 1872, plates 4-7.

²¹ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plan 235.

commander could apply to the Secretary of War for the authority to lease the necessary quarters.²²

During the 1920s, the Army suffered from a nationwide housing shortage. The Quartermaster Corps constructed few officer family quarters, and those constructed were criticized severely. For example, the quarters constructed at Ft. Benning were considered unsuitable for the hot Georgia summers.²³ After a Congressional investigation into living conditions on Army posts, the U.S. Congress enacted Public Law 45 in 1926, which allowed the Secretary of War to build new installations from money obtained by selling unneeded posts. Upon passage of this law, the Army embarked on a massive building program. In 1933, the government further expanded the construction program through the appropriations of Depression-era public works funds for additional construction at military installations.

The installations constructed and expanded during the 1930s were much larger than previous installations, and thus were organized differently. The buildings were no longer arranged around a central parade ground. Officer housing, instead of lining one side of the parade ground, was arranged in areas that one planner referred to as "executive living area[s]" arranged in neighborhoods around curving streets and parks.²⁴

The Construction Service of the Quartermaster Corps developed standardized plans for this new wave of construction that were designed to respond to the local climate and to reflect local architectural history. The architects also devoted attention to designing comfortable, modern houses. Georgian Colonial Revival was used for installations located from New England to Virginia, in the Midwest, and in the Pacific Northwest. Spanish Colonial Revival housing was built in the South, Western Plains, Southwest, and California. Other regional designs included French Provincial in the Gulf States and a few examples of English Tudor Revival.²⁵

Officer housing, though standardized, displayed a variety of types. Two-story quarters were the most common, but the Construction Service also designed one-story bungalow designs. Duplex housing, which had been the common type for company officers prior to the First World War and had even been used by Quartermaster General Meigs in 1872, was replaced by more single-family housing. The Army also began constructing more small apartment buildings, similar to garden apartment units. During the early 1900s, the Quartermaster Department had started to build apartments, usually four-family buildings, at consolidated, permanent posts. The quartermaster proposed that apartments would appeal to officer wives because an apartment would not require maid service or major individual cooking facilities. However, the apartments were not a success. Army wives claimed to prefer single-family dwellings. During the 1930s

²² War Department, General Staff, *Manual for the Quartermaster's Department*, United States Army, 1904, Washington, D.C., Government Printing Office, 1904, 102-104.

²³ Robinson Fisher Associates, Inc., *Historic Building Survey: Fort Benning, Georgia*, MSS, Ft. Benning, 1987, 16-17, 23.

²⁴ Hallauer, "Landscaping the Army Post," 28-31.

²⁵ Lt. Col. Francis B. Wheaton, "The Architecture of the Army Post", *The Quartermaster Review*, (September-October 1928):10-13.

construction era, the Quartermaster again constructed four-family apartment buildings for student officers at training and educational installations.²⁶

The new housing program officially came to an end on June 15, 1940, when the War Department halted all family quarters construction in preparation for the wartime mobilization.²⁷ Despite these orders, limited family housing construction was completed in the second half of 1940, notably at several Army Air Corps depots, where streamlined, Art Moderne designs were introduced. These last designs before the start of World War II presaged the more minimalist designs favored during the post-war years.

Association:

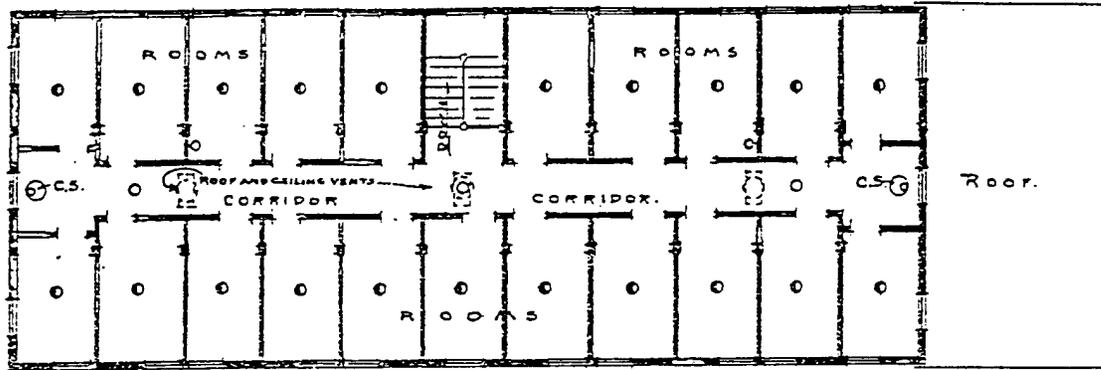
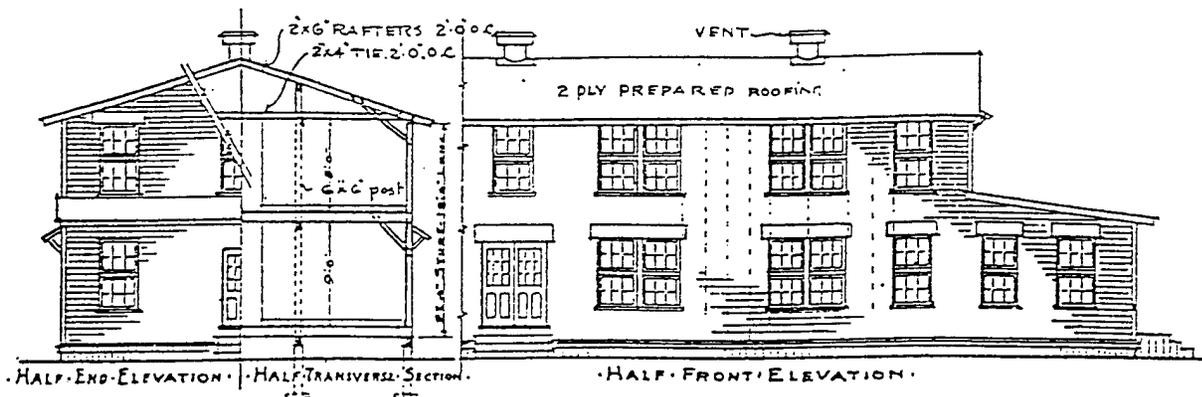
Officers quarters are associated with the evolution of living standards for military personnel. Officer housing construction directly reflects the history and status of the military during the period of construction. The design of officer housing was influenced by civilian architecture and the military's self-perception of its role and prestige. Officer housing typically is a major element in the installation plan and occupies a location that illustrates the hierarchical arrangement of life on military installations. Officer housing usually is a contributing element in an installation historic district, or can itself constitute an historic district. Individual officer quarters may possess individual significance if it embodies the distinctive characteristics of a type or period of construction, represents the work of a master builder or architect, or possesses high artistic values. In addition, officer housing may be associated with the military careers of important individuals.

Integrity:

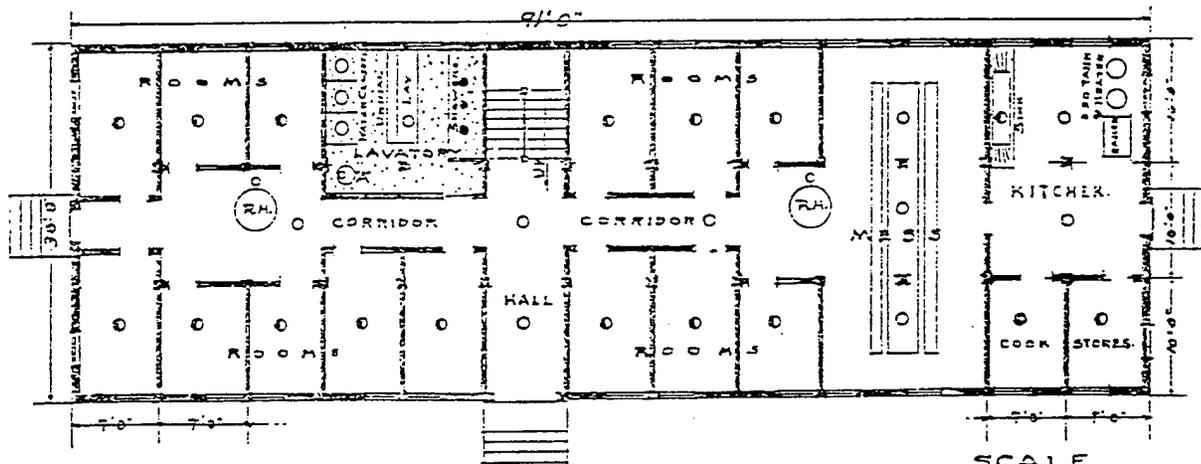
To possess integrity, officer housing should retain its location and most of its design, setting, materials, workmanship, and association from the property's period of significance. Most officers' quarters have been used as dwellings throughout their history, though the buildings often have undergone modifications to meet modern living standards. Typically modified exterior features include porches, windows, and roof and siding materials. In cases of subsequent additions or alterations, the quarters still may have integrity if it retains its setting, overall design, the majority of its materials, and the majority of its architectural features that convey the property's association with the period of significance.

²⁶ J.M. Carson, "Now -- the Army Apartment," *The Quartermaster Review*, July-August 1921, 71-73, 81.

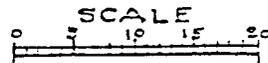
²⁷ Grashof, *A Study of United States Army Family Housing Standardized Plans, 1866 - 1940*, Vol., 1, 56.



SECOND FLOOR PLAN



FIRST FLOOR PLAN



IF STOVES ARE OMITTED, CONTINUE CORRIDORS 4' WIDE THROUGHOUT. ROOMS ARE FOR ONE OFFICER EACH.

FOR GENERAL DRAWINGS - 620-354.
FOR DETAILS - 620-314, 325, 329, 330, 420 & 463.
FOR WIRING - 620-367.

| NUMBER OF OFFICERS | TOTAL LENGTH OF BUILDING | LAVATORY | | | ROOM HEATER 2 REQUIRED | | | CANNON STOVE 'A' 2 REQUIRED | | | CANNON STOVE 'B' 2 REQUIRED | | | FLUE SIZES | MAN RANGE |
|--------------------|--------------------------|----------|---------|----------|------------------------|-----|-----|-----------------------------|----|----|-----------------------------|-----|-----|------------|-----------|
| | | W.C. | SHOWERS | LAVATORY | X | Y | Z | X | Y | Z | X | Y | Z | | |
| 19 | 63' | 2 | 2 | 6'-0" | 6'-0" | 14R | 14R | 14R | 7C | 7C | 9C | 12C | 12C | 12C | 20 |
| 23 | 70' | 2 | 2 | 6'-0" | 6'-0" | 14R | 14R | 14R | 7C | 7C | 9C | 12C | 12C | 12C | 20 |
| 27 | 77' | 3 | 3 | 8'-0" | 8'-0" | 14R | 14R | 14R | 7C | 7C | 9C | 12C | 12C | 12C | 40 |
| 31 | 84' | 3 | 3 | 8'-0" | 8'-0" | 14R | 14R | 14R | 7C | 7C | 9C | 12C | 12C | 12C | 40 |
| 35 | 91' | 3 | 3 | 8'-0" | 8'-0" | 14R | 14R | 14R | 7C | 7C | 9C | 12C | 12C | 12C | 40 |
| 39 | 98' | 3 | 3 | 8'-0" | 8'-0" | 14R | 14R | 14R | 7C | 7C | 9C | 12C | 12C | 12C | 40 |

CONSTRUCTION DIVISION OF THE ARMY
TYPICAL BUILDINGS
TWO STORY OFFICER'S QUARTERS
WITH LAVATORY AND MESS.

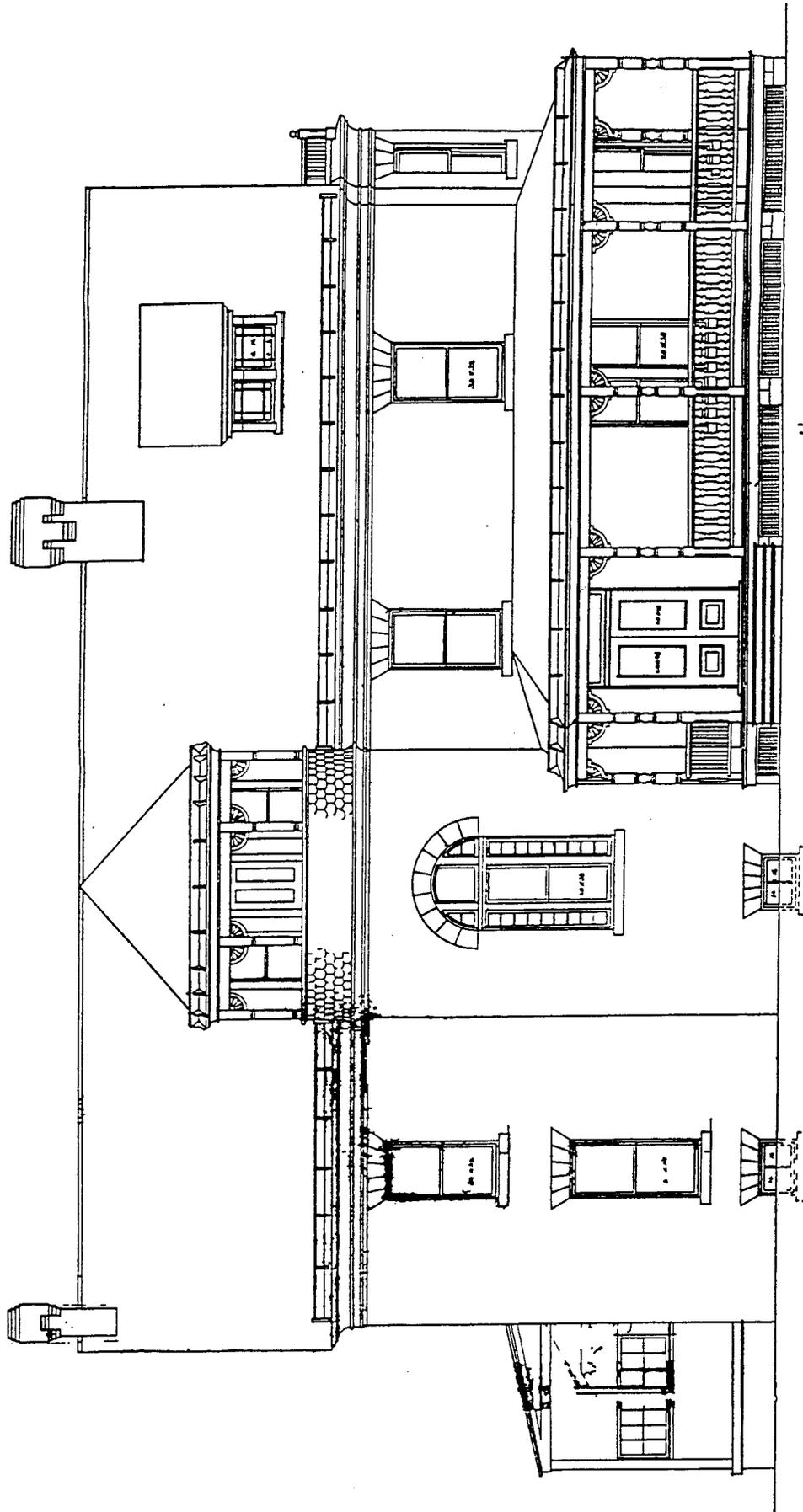
SB-5



QUARTERS
 for
 COMMANDING OFFICER
Artillery Bn., Fort Riley, Kans.
 Designed by
 CAPT. GEO. B. FOND, A.Q.M., U.S.A.

Front Elevation
Scale 1/2"=1'

h0 100_01.cit
 H0100_01.CIT 100



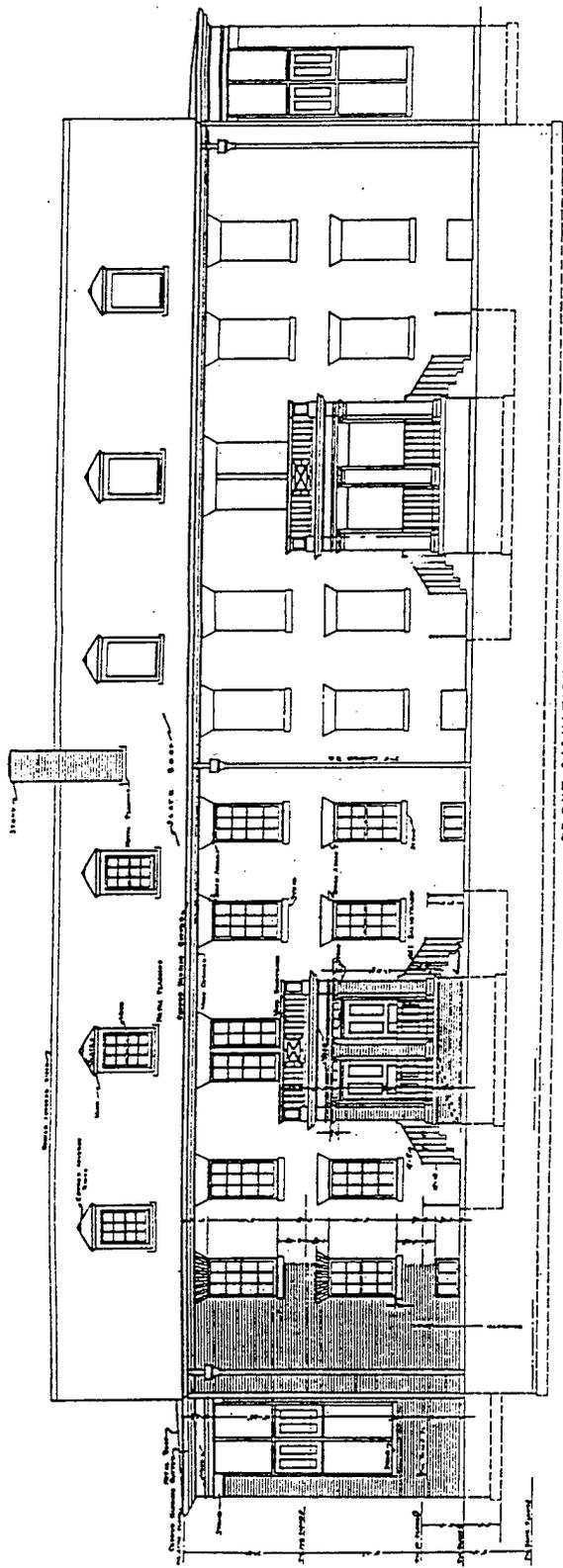
Front Elevation
Scale 1/4" = 1'-0"

QUARTERS FOR COMD'G OFFICER
 THE 10th INFANTRY
 DESIGNED BY CAPT GEO E FORD,
 AQM, U.S. A.

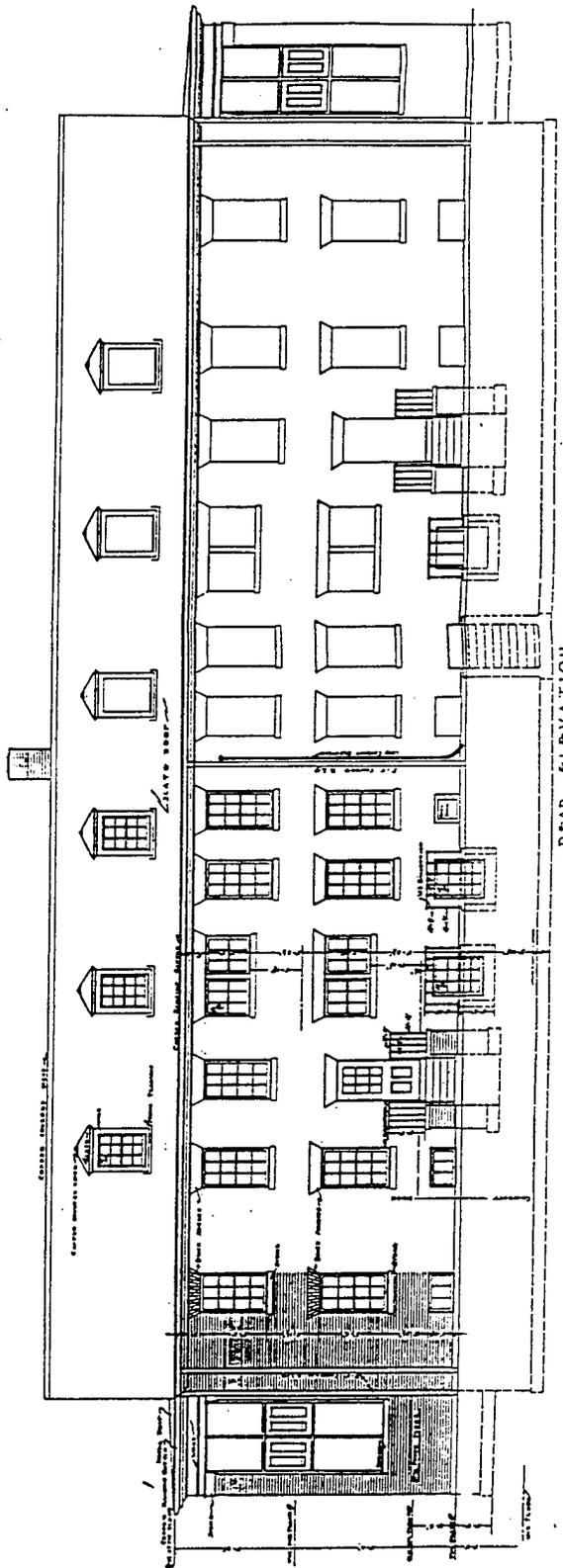
#1

10001.01.CIT

HO-001-01.cit

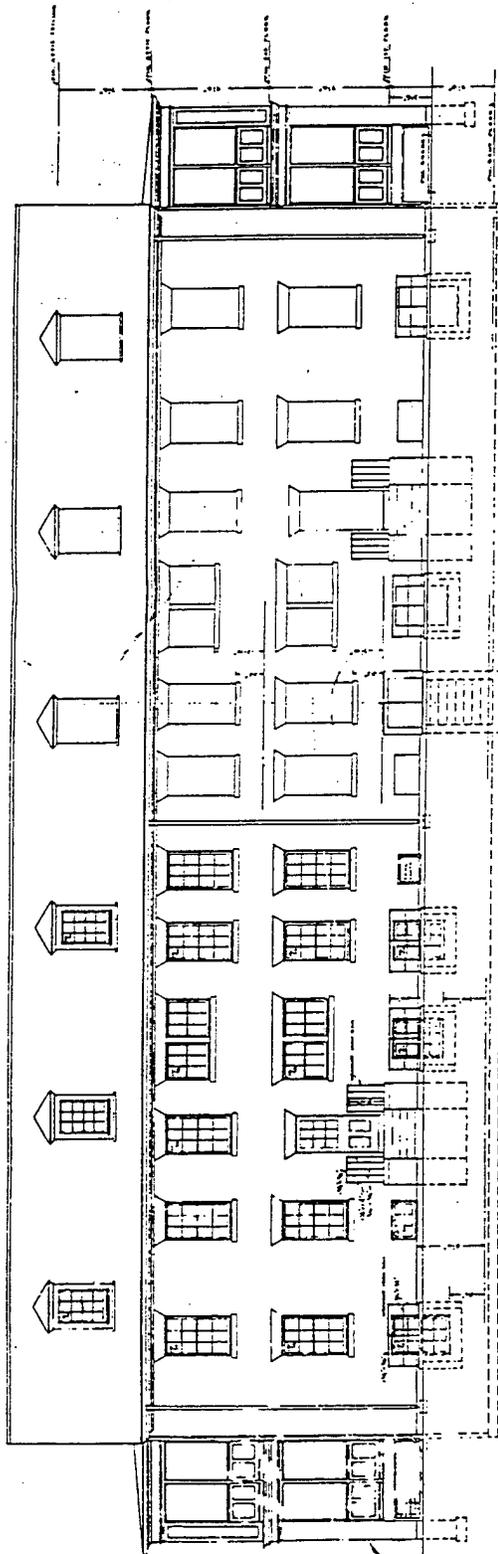


FRONT ELEVATION

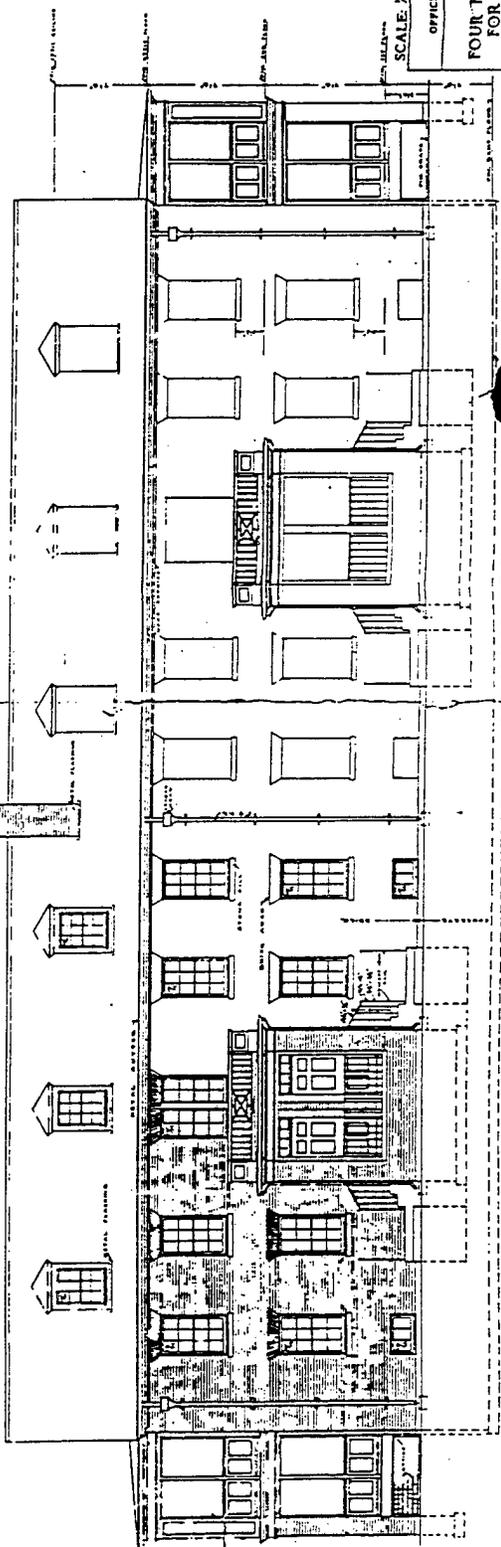


REAR ELEVATION

Sheet No. 1
 of File No. 100
PLAN FOR
FOUR FAMILY APARTMENT HOUSE
FOR COMPANY OFFICES
 G. & S. P. H. B. S. S. S.
 OFFICE OF THE ARCHITECTS QUARTERS
 No. 1124 - 2nd St. - S. F. - CALIF.
 1914.
 100-101-111



REAR ELEVATION
SCALE: 1/4" = 1'-0"



FRONT ELEVATION
SCALE: 1/4" = 1'-0"

CONSTRUCTION SERVICE
OFFICE OF THE QUARTERMASTER GENERAL
FT. RILEY KANS.
FOUR FAMILY APARTMENT HOUSE
FOR COMPANY OFFICERS
DRAWN BY: *W. B. ...*
CHECKED BY: *...*
DATE: *...*
NO. 040.02.cj1

SCALE 1/4" = 1'-0" A-3-2

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

MARSHALL FIELD, KAN.
COMPANY OFFICERS QUARTERS

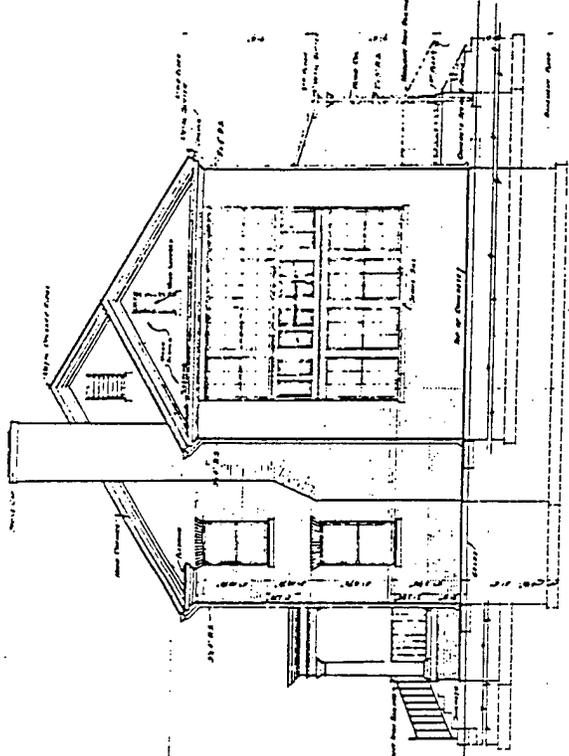
| | |
|------|---------------|
| DATE | AUG. 13, 1932 |
| NO. | 625-2491 |

310
311
312

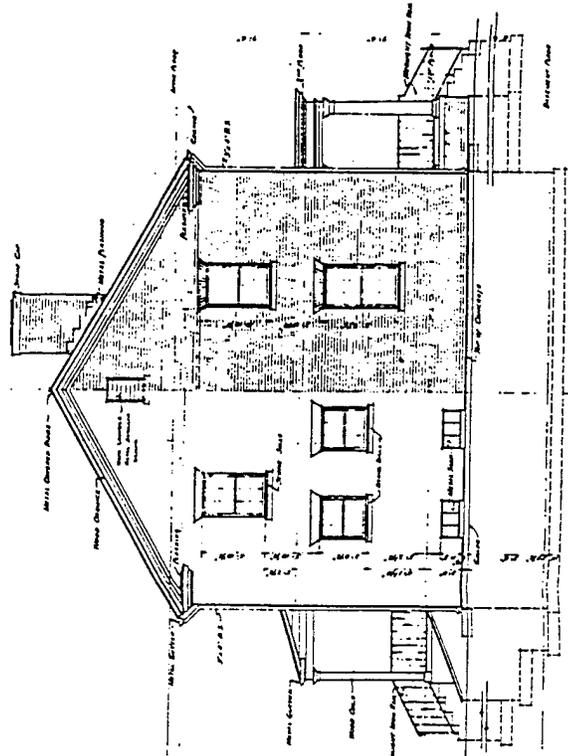
100 200 300 400

h0780_04.cir

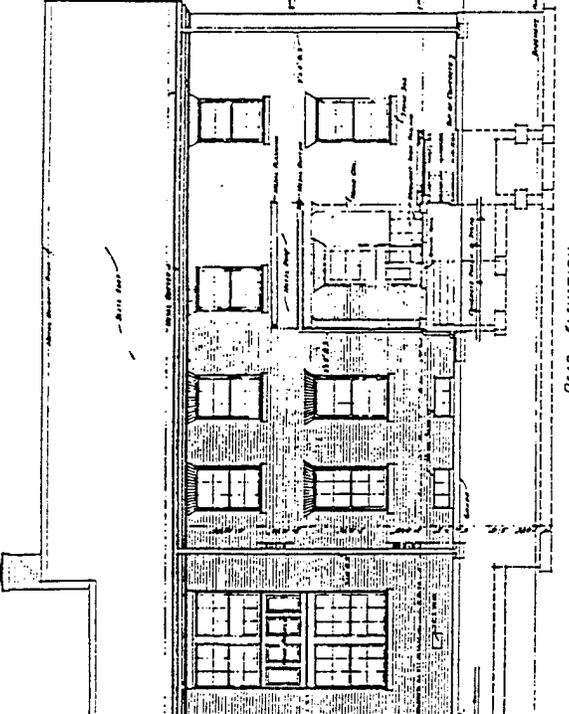
This Doc. Overseas Des. No. 625-1487
NOTE: All work shown is of work unless otherwise indicated to be standard below noted date.



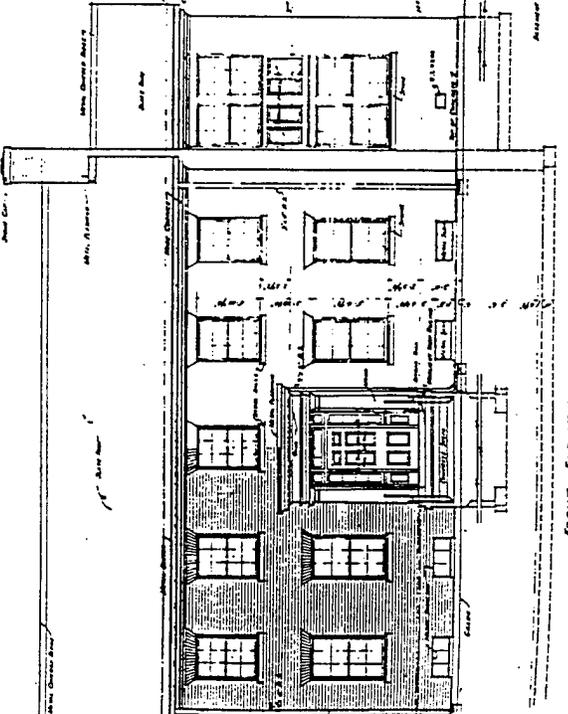
REAR ELEVATION
Sheet No. 104



SIDE ELEVATION
Sheet No. 105



SIDE ELEVATION
Sheet No. 106



FRONT ELEVATION
Sheet No. 107

SCALE 1/4" = 1'-0" A-3-2

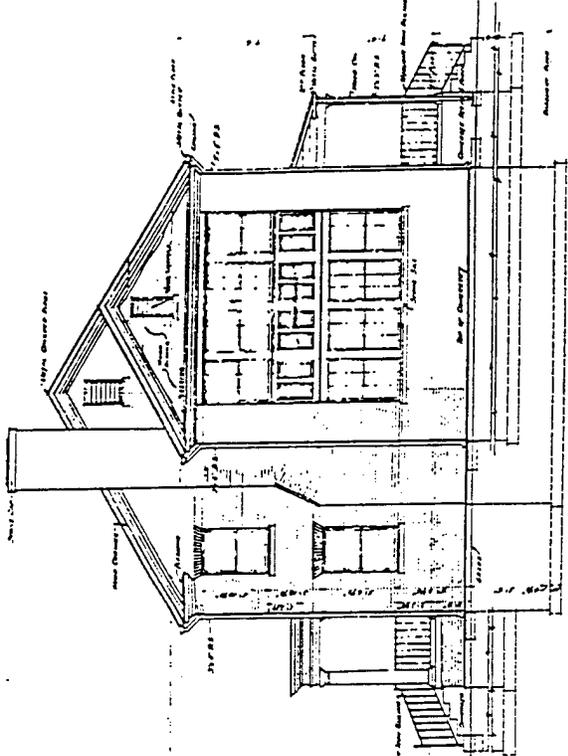
CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

MARSHALL FIELD, KAN.
COMPANY OFFICERS QUARTERS

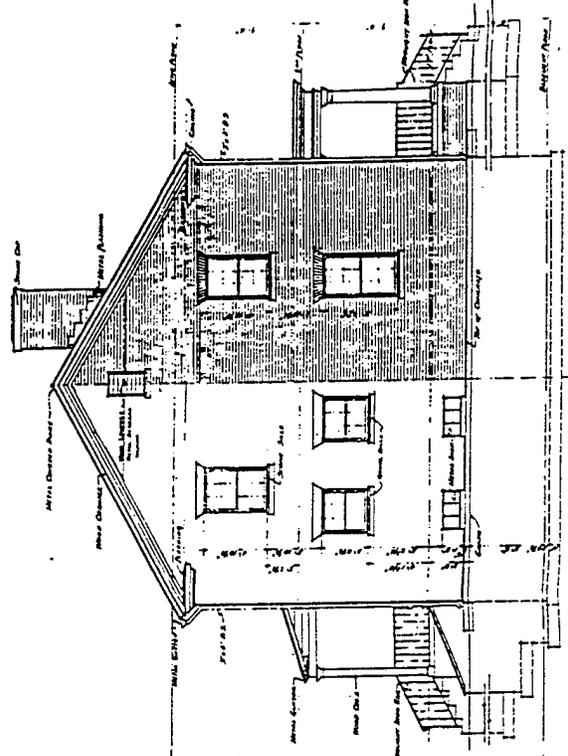
HO776.II.CIT
350
354

| | | | |
|-------|-------------|-------------|--------------|
| DATE | DESIGNED BY | APPROVED BY | AUG. 15 1932 |
| NO. 1 | 2111 | | |
| NO. 2 | | | 625-2491 |

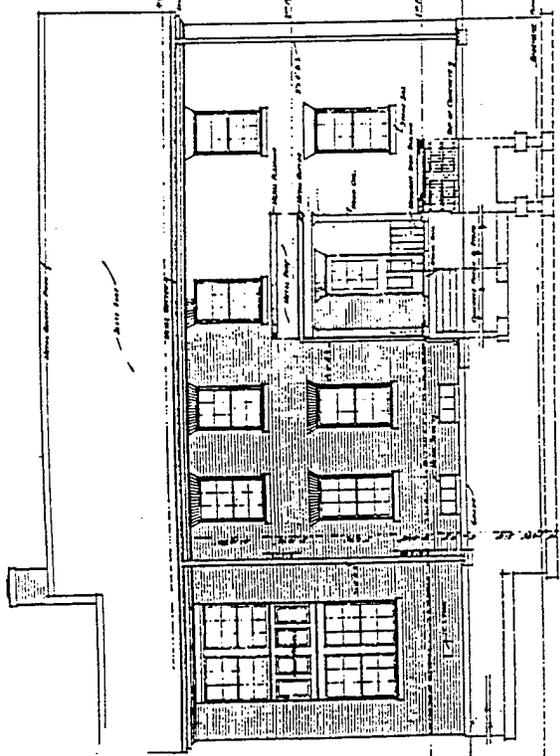
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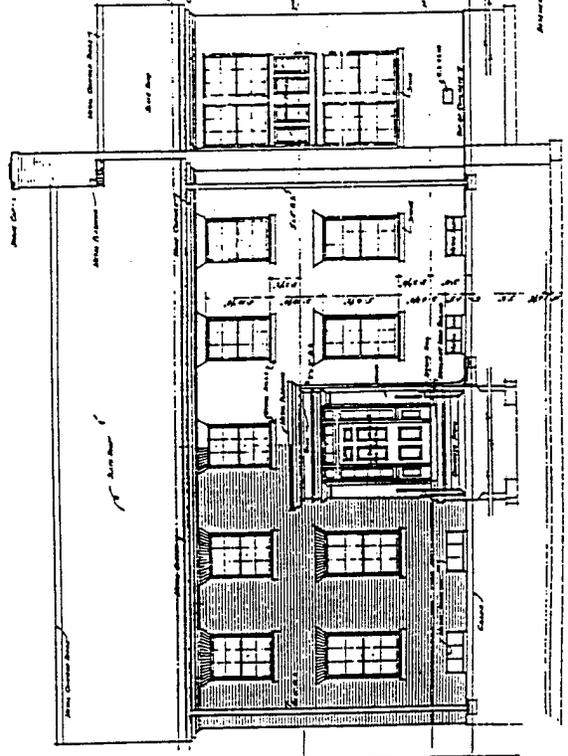
SIDE ELEVATION
Sheet No. 1-10



SIDE ELEVATION
Sheet No. 1-10



REAR ELEVATION
Sheet No. 1-10



FRONT ELEVATION
Sheet No. 1-10

SCALE 1/4"=1'-0"

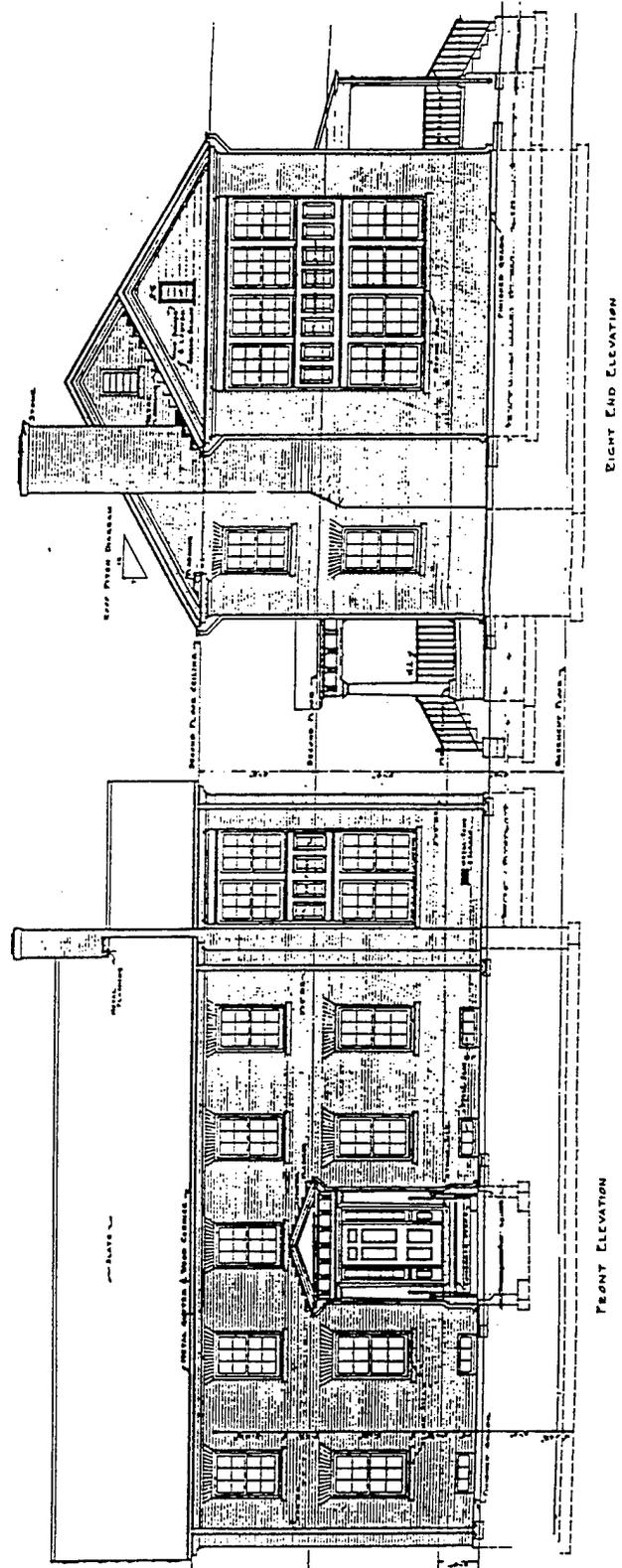
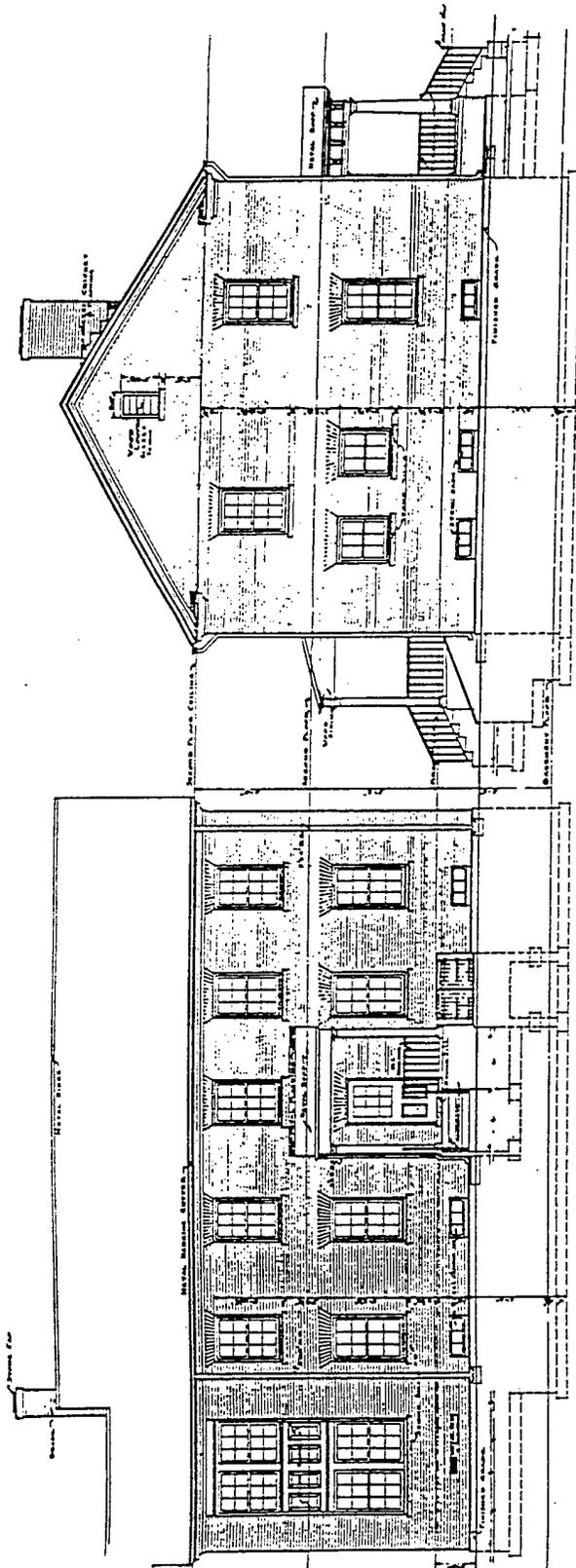
A-3-3

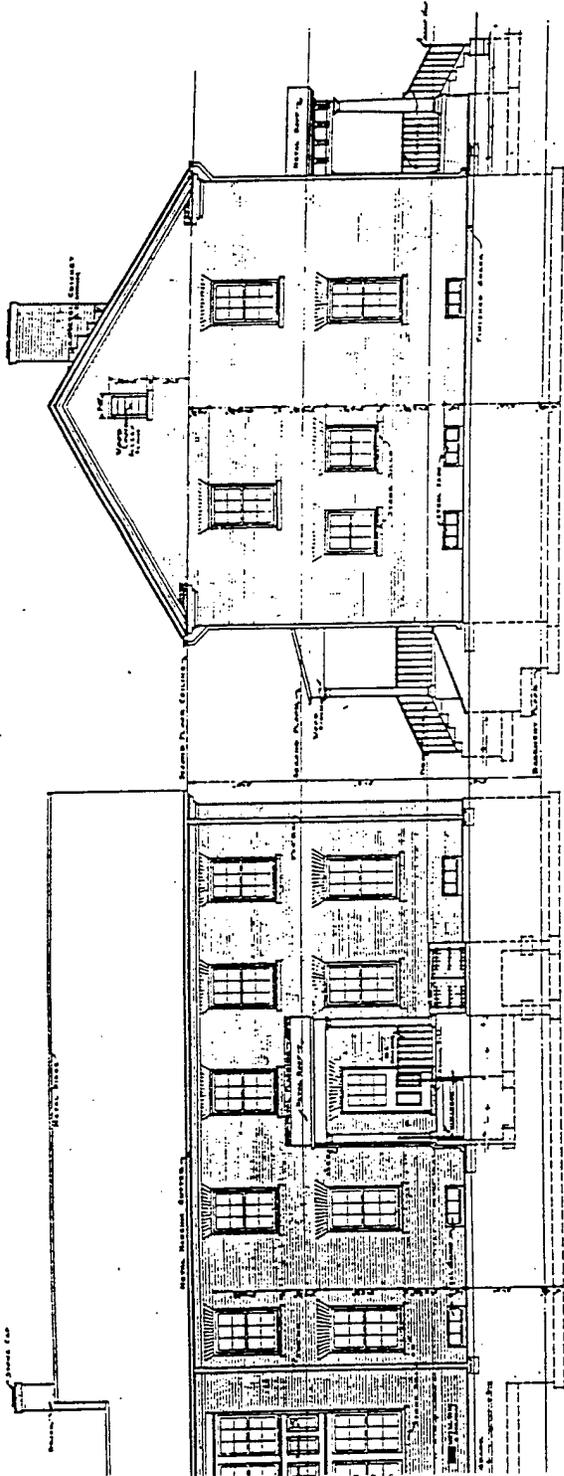
CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

MARSHALL FIELD, ILL.
FIELD OFFICERS' QUARTERS
35' x 116'

DATE: 1/11/14
DRAWN BY: J.L.L.
CHECKED BY: J.K.L.
DATE: 1/11/14

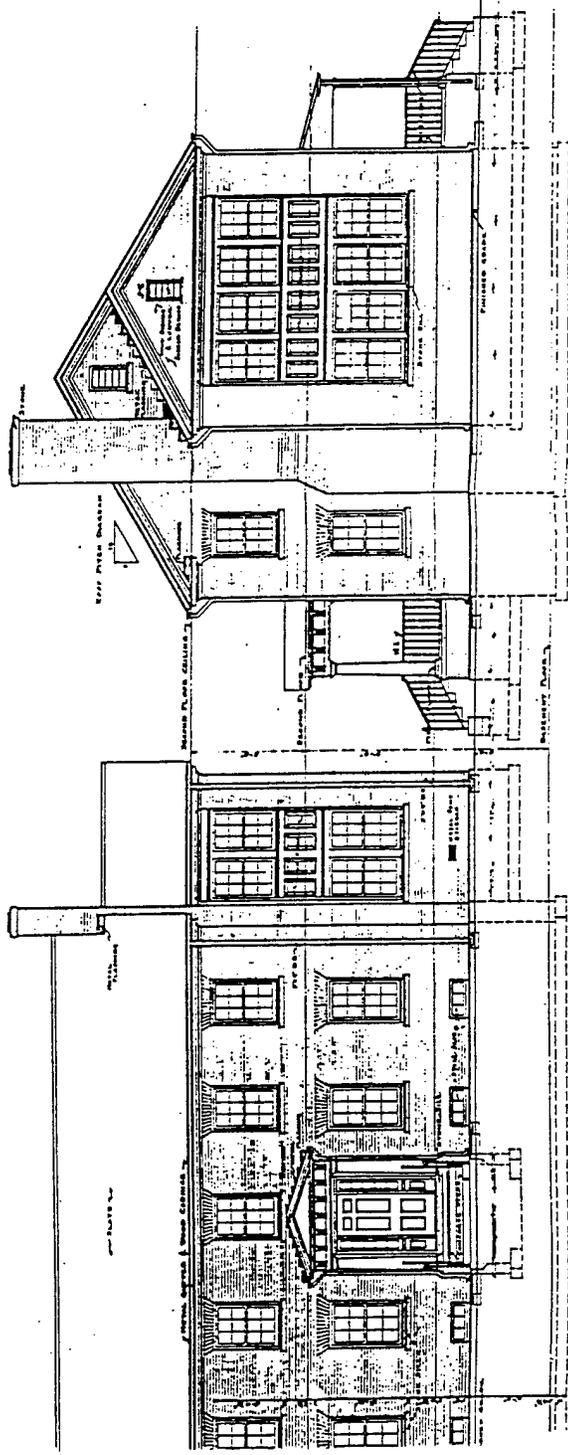
h0784.10.cit





LEFT END ELEVATION

REAR ELEVATION



RIGHT END ELEVATION

FRONT ELEVATION

ALL WORK SHOWN IS TO BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND CONDITIONS OF CONTRACT NO. 6235-12411
 THE ARCHITECT'S OFFICE IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN.

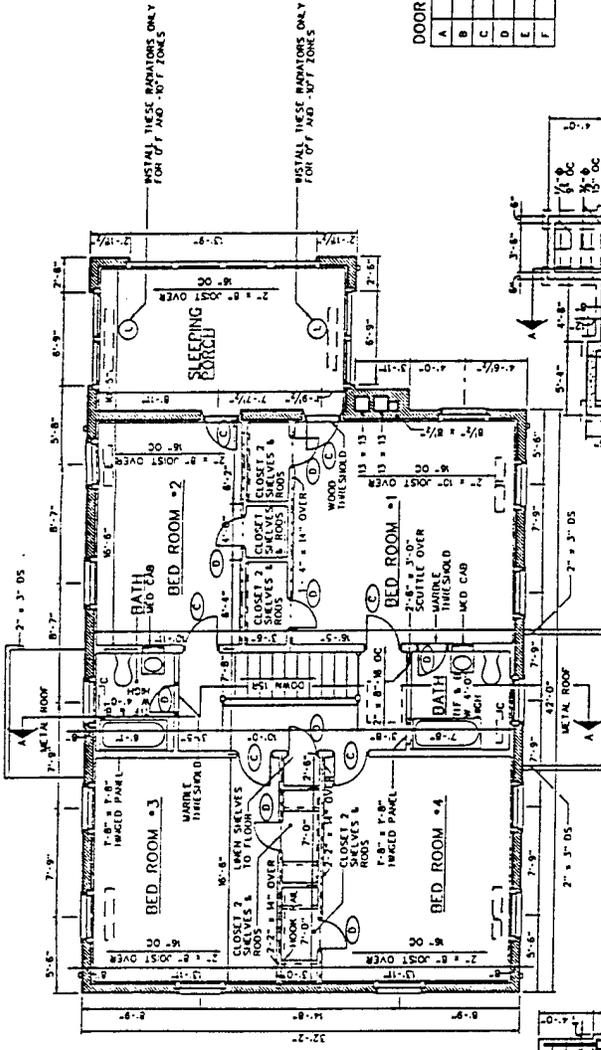
SCALE: 1/4" = 1'-0" A-3-3

CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL

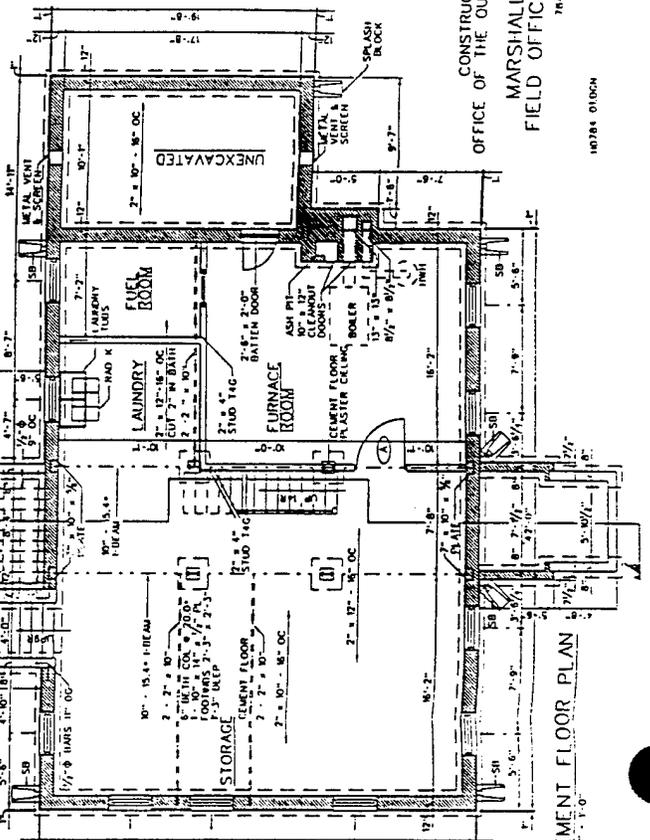
MARSHALL FIELD, KAN.
 FIELD OFFICERS QUARTERS
 357 1st

DATE: 12-27-1941
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 6235-12411
 1941, 1942

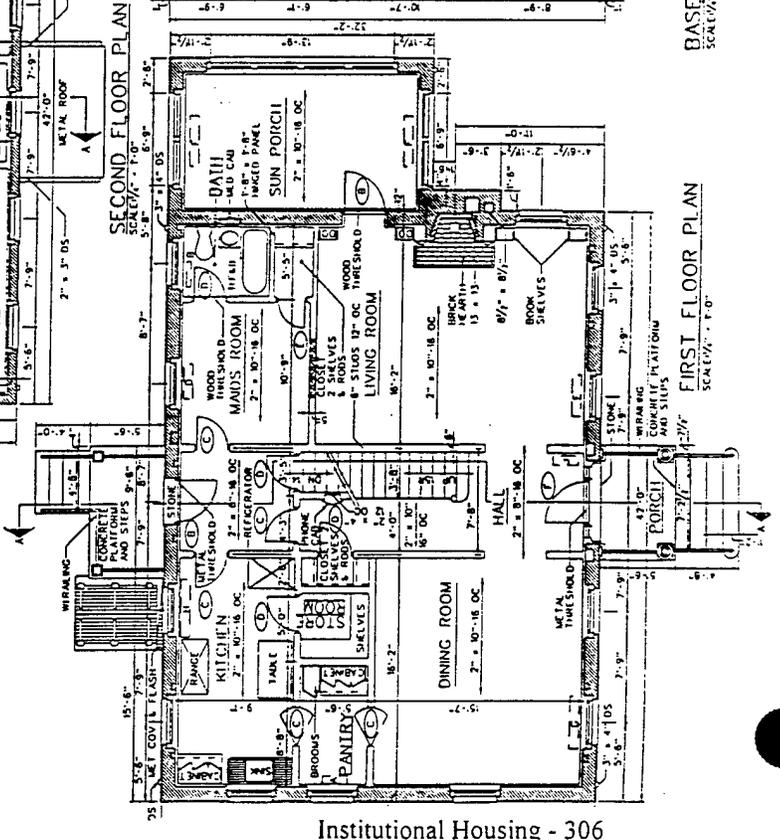
10784.02.G11



SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

| | |
|---|------------------|
| A | 3'-0" x 8'-0" B" |
| B | 3'-0" x 8'-0" B" |
| C | 2'-0" x 8'-0" B" |
| D | 2'-0" x 8'-0" B" |
| E | 2'-0" x 8'-0" B" |
| F | 3'-0" x 7'-0" B" |

INSTALL THESE RADATORS ONLY FOR OFF AND -OFF ZONES

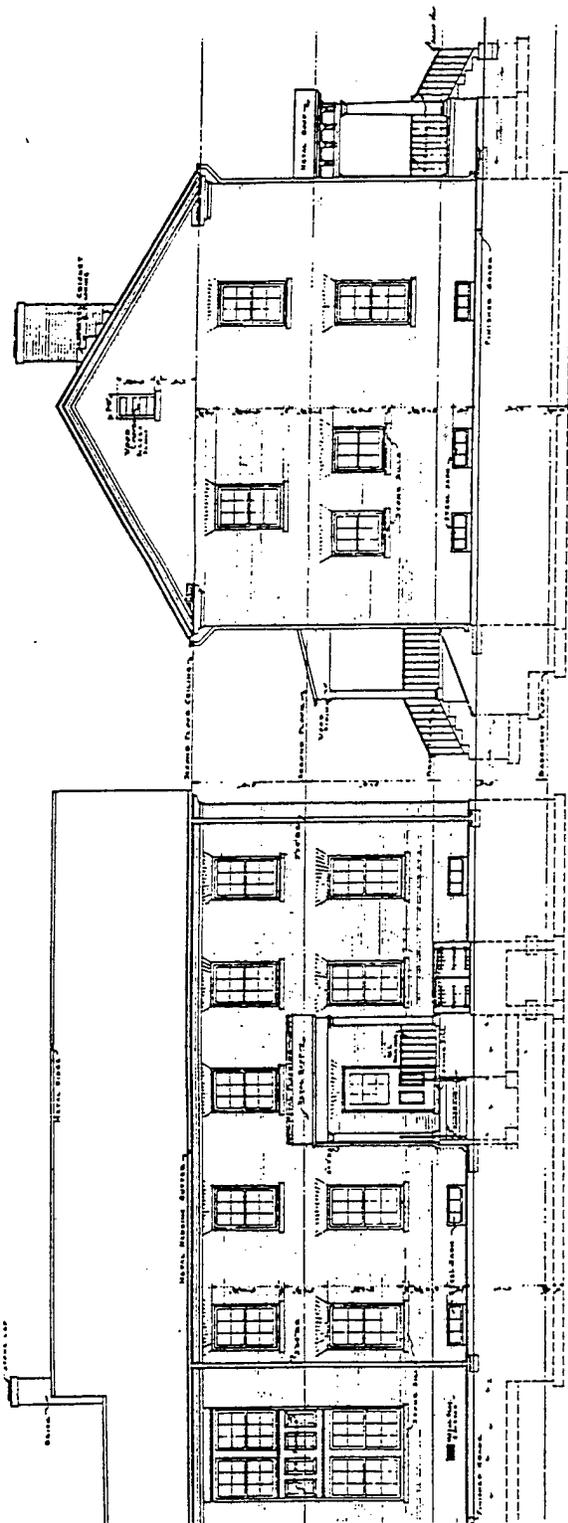
INSTALL THESE RADATORS ONLY FOR OFF AND -OFF ZONES

REVISED
THIS PLAN CORRECT TO LAST
DISCREPANCY ALL WORKS PRINTS
AUG. 30, 1953 - GENERAL REVISIONS

THIS DRAWING SUPERSEDES DWG
NO 625-1000
A-3-3

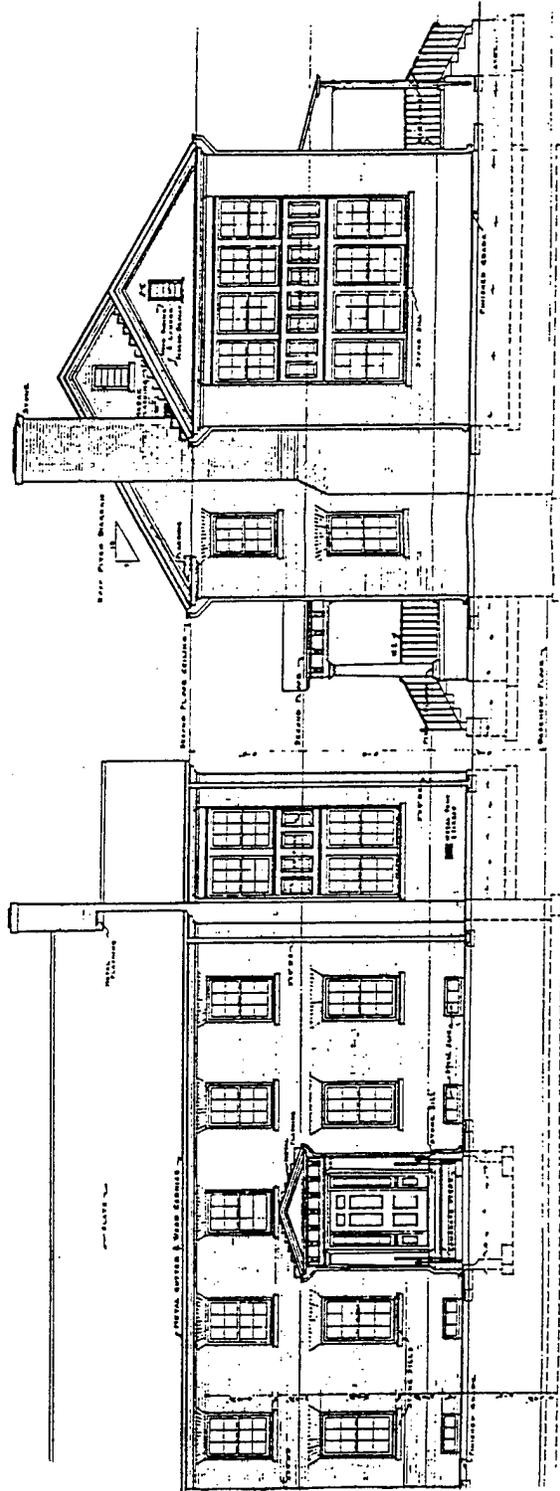
CONSTRUCTION DIVISION GENERAL
OFFICE OF THE QUARTERMASTER GENERAL
MARSHALL FIELD, KAN
FIELD OFFICERS' QUARTERS

10784 0100CN
764



LEFT END ELEVATION

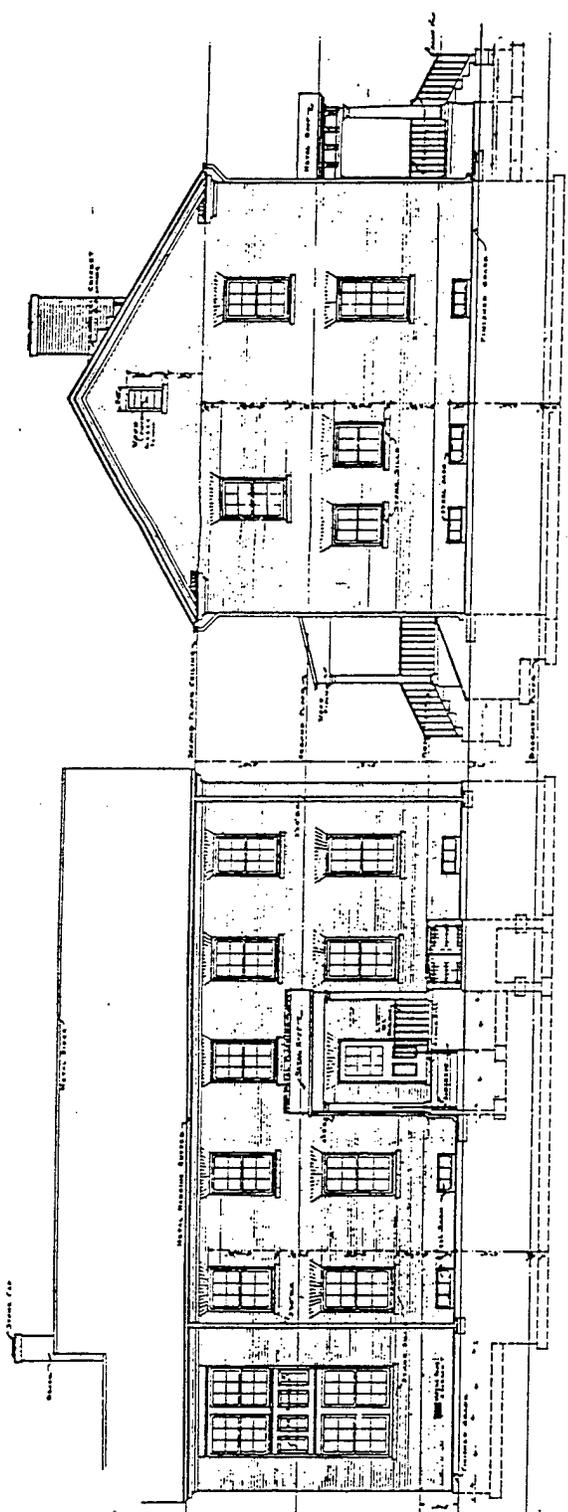
REAR ELEVATION



RIGHT END ELEVATION

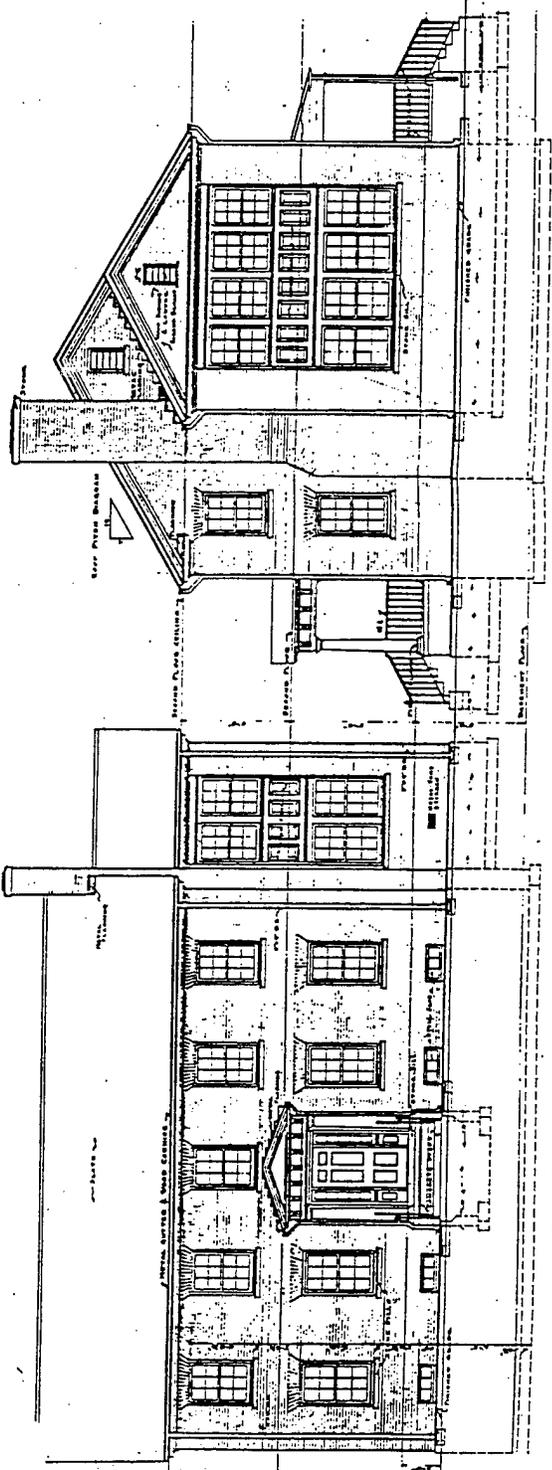
FRONT ELEVATION

SCALE: 1/4" = 1'-0"
 CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL
 FORT SILEY, WYOM.
 FIELD OFFICERS QUARTERS
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: [Date]
 PROJECT NO.: 625-1041



LEFT END ELEVATION

REAR ELEVATION



RIGHT END ELEVATION

FRONT ELEVATION

All work to be done in accordance with the specifications attached.
 This set of drawings is for the use of the architect.

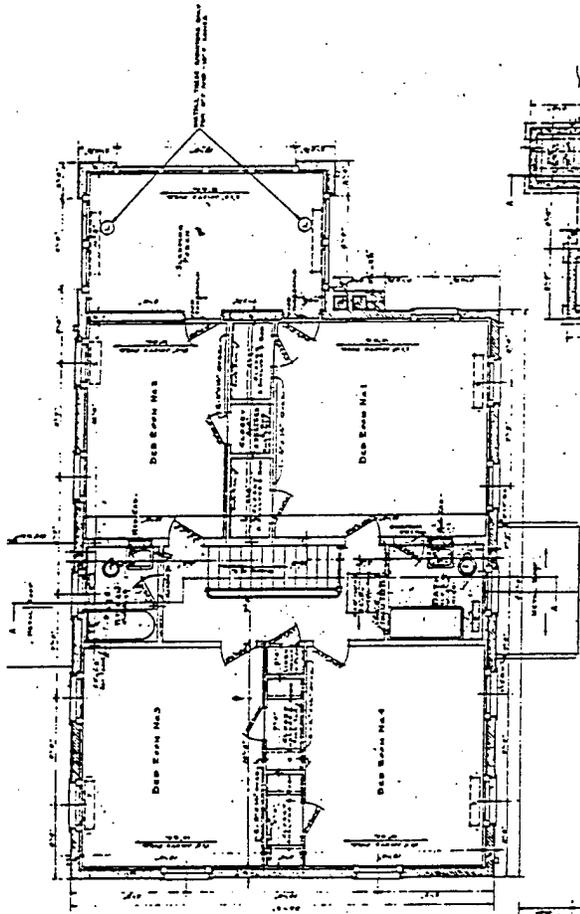
SCALE: 1/4" = 1'-0" A-4

CONSTRUCTION DIVISION
 OFFICE OF THE QUARTERMASTER GENERAL

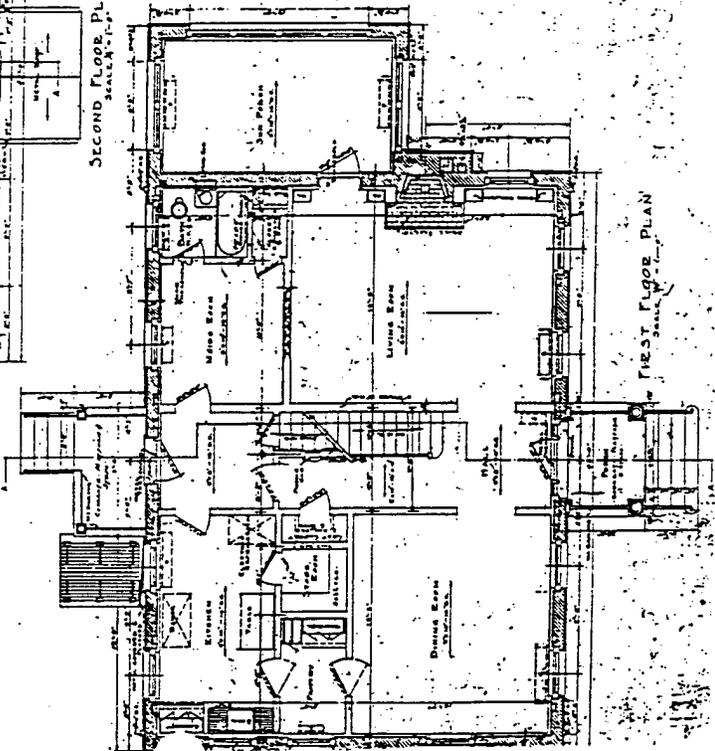
FORT RILEY, KAN.
 FIELD OFFICERS QUARTERS
 2114, No. 330-336

DATE: 1/14/41
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 625-1348

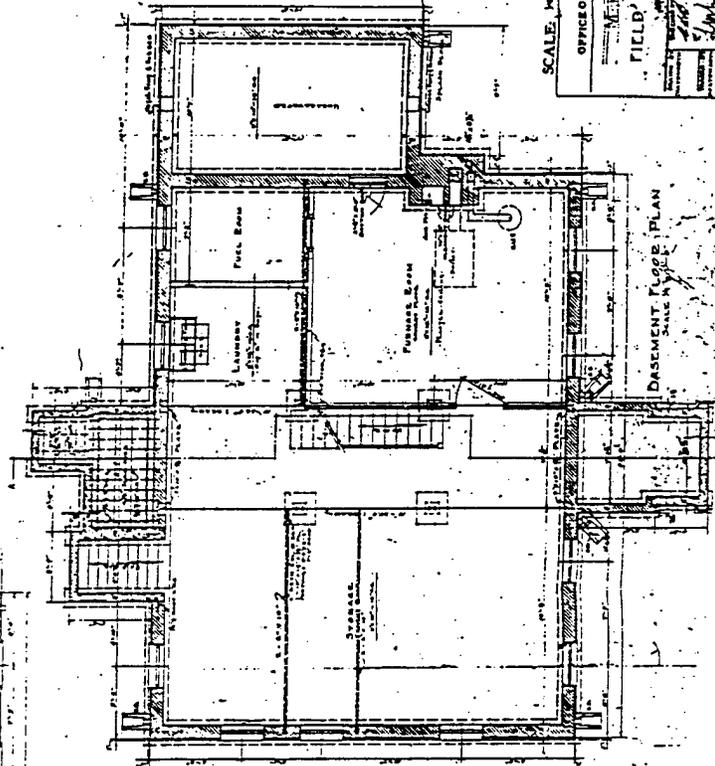
NO 070.02.C11



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

REVISIONS
THIS PLAN IS SUBJECT TO LAST
REVISIONS - GENERAL REVISIONS

SCALE: 1/8" = 1'-0"
A-4-5-6

CONSTRUCTION SUPERVISOR
OFFICE OF THE QUARTERMASTER GENERAL
FORT MONROE, VIRGINIA
FIELD OFFICERS' QUARTERS
SCALE: 1/8" = 1'-0"
J. H. [Signature]

HO 070-01.cit

*Proposed Field Officers Quarters
at
Fort Riley, Kans.*

Scale 1/4" = 1'

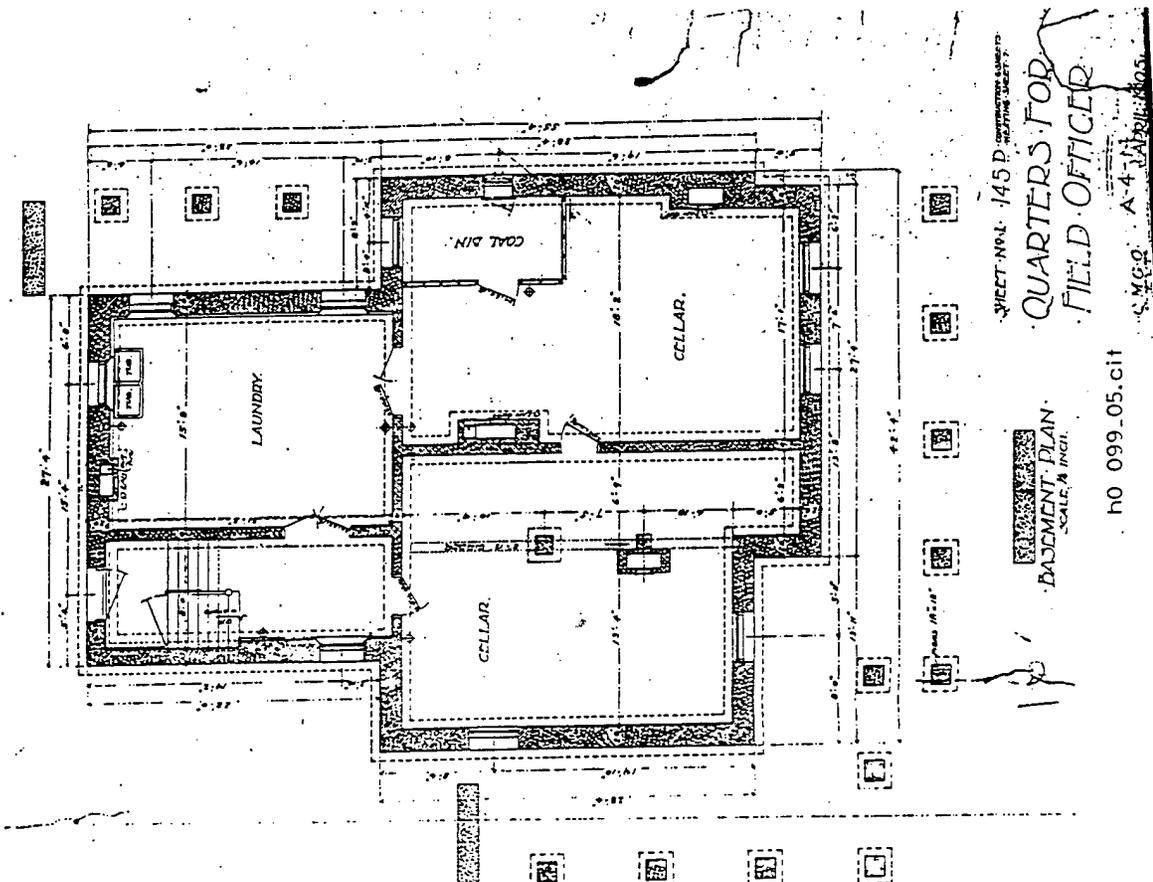
*Capt. Geo. E. Pond,
A.Q.M., U.S.A.*

*Note:
Staircase floor to be level with
outside floor, posts to be the
same length as shown.*



2-19-26.

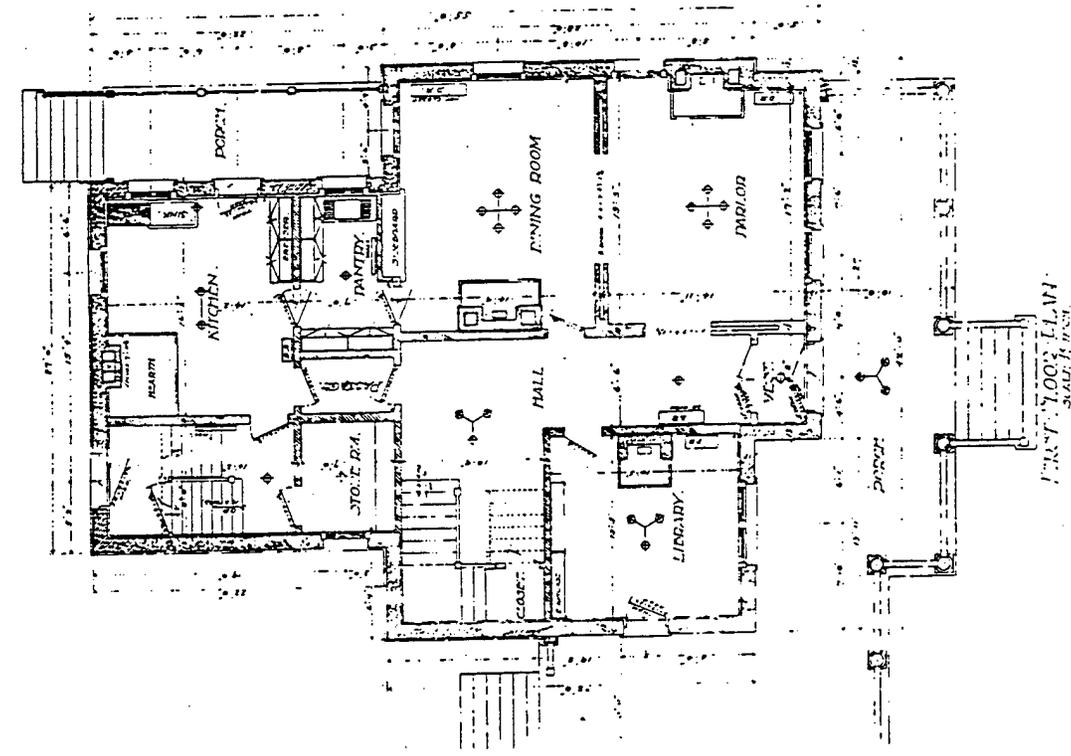
Front Elevation Sheet # 11. U File A#-2



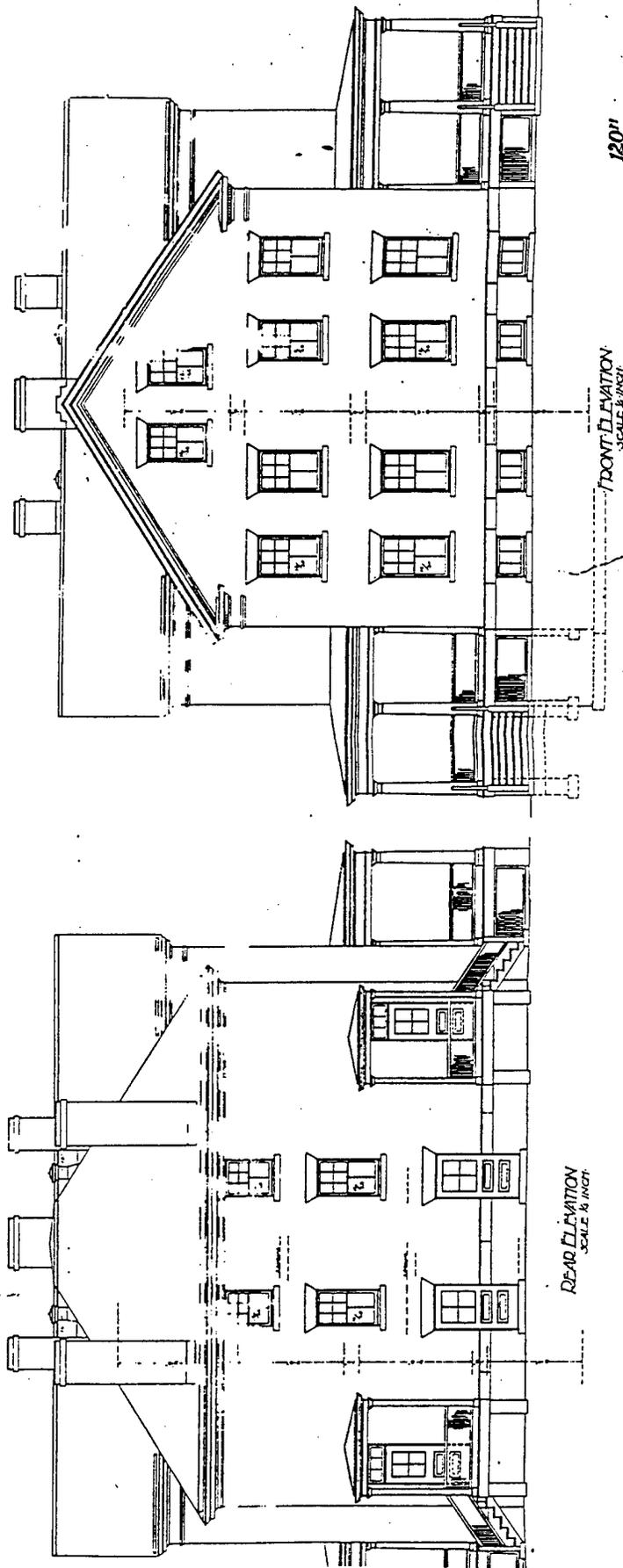
SHEET NO. 145 D
 QUARTERS FOR
 FIELD OFFICER

BASMENT PLAN
 SCALE: 1/8" = 1'-0"

h0 099_05.cit



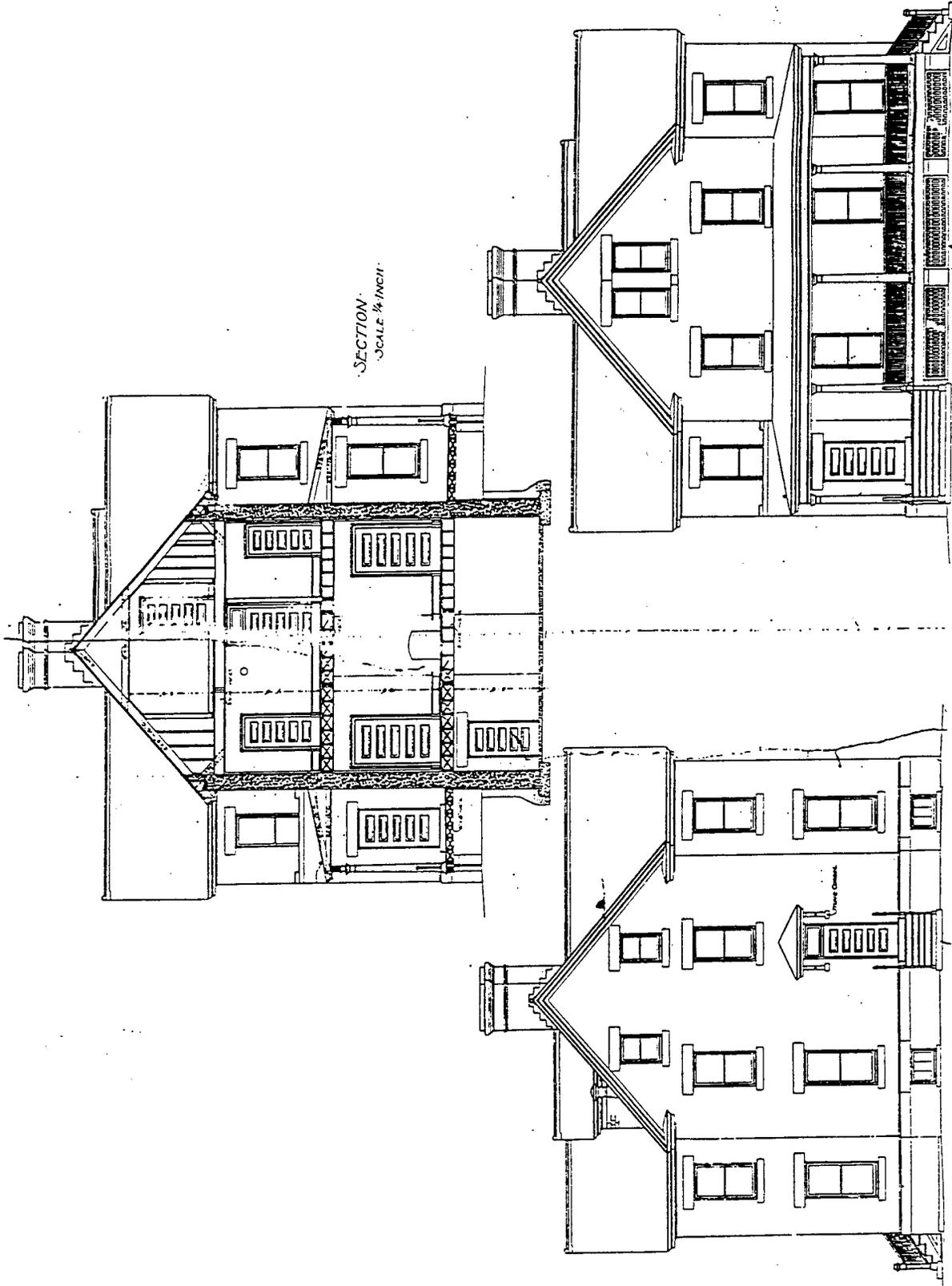
FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"



12011
 CONTRACTOR'S SUBJECTS
 ARCHITECTURE SUBJECTS
 QUARTERS FOR TWO LIEUTENANTS
 Q.M.G.O. APR. JUNY-1907
 NO. 085.03.c11

FRONT ELEVATION
 SCALE 1/8" = 1'-0"

REAR ELEVATION
 SCALE 1/8" = 1'-0"



HO 004_01.cit



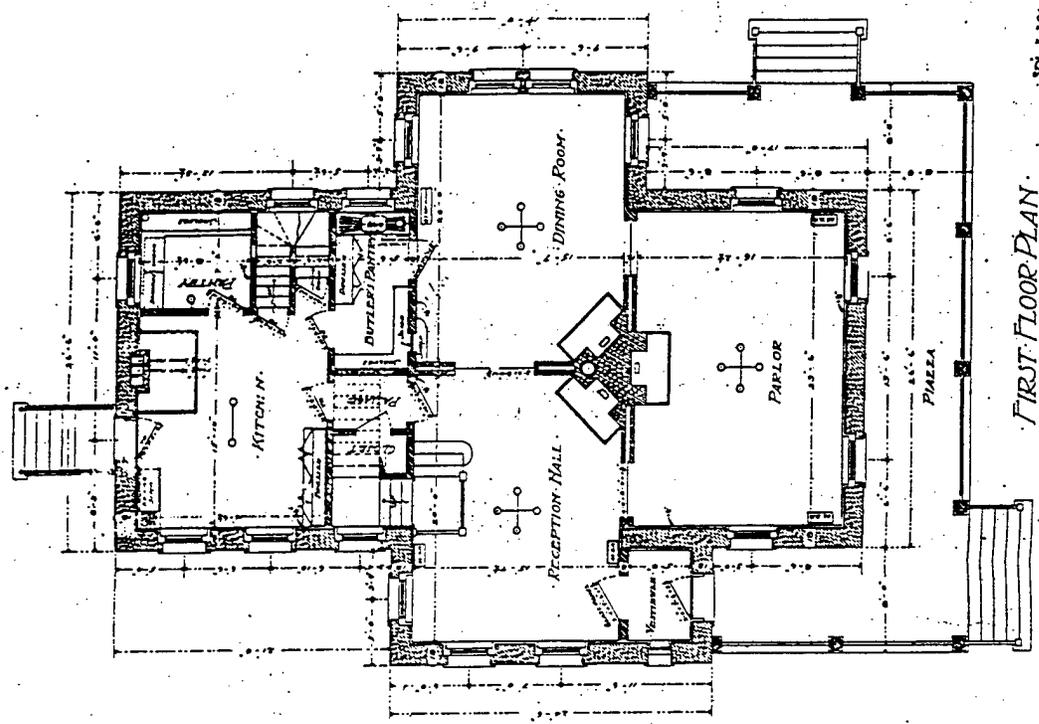
SIDE ELEVATION
SCALE 1/4" = 1'-0"



SIDE ELEVATION
SCALE 1/4" = 1'-0"

SPL 3-38:
SHEET NO 2 - 5 SHEETS
OFFICERS QUARTERS

h0 004.02.cit

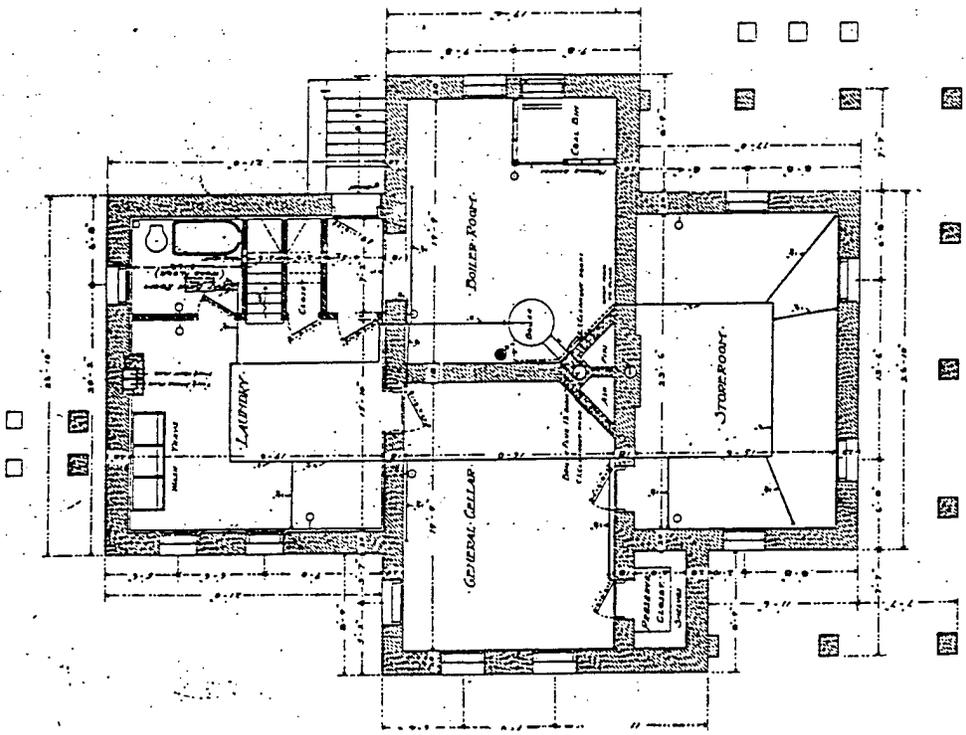


FIRST FLOOR PLAN

JPL 3-381
 SHEET NO. 3 - 6 SHEETS
 OFFICERS' QUARTERS
 O.M.G.O. - FEB 1902

A 4 3

h0 004_03.cif

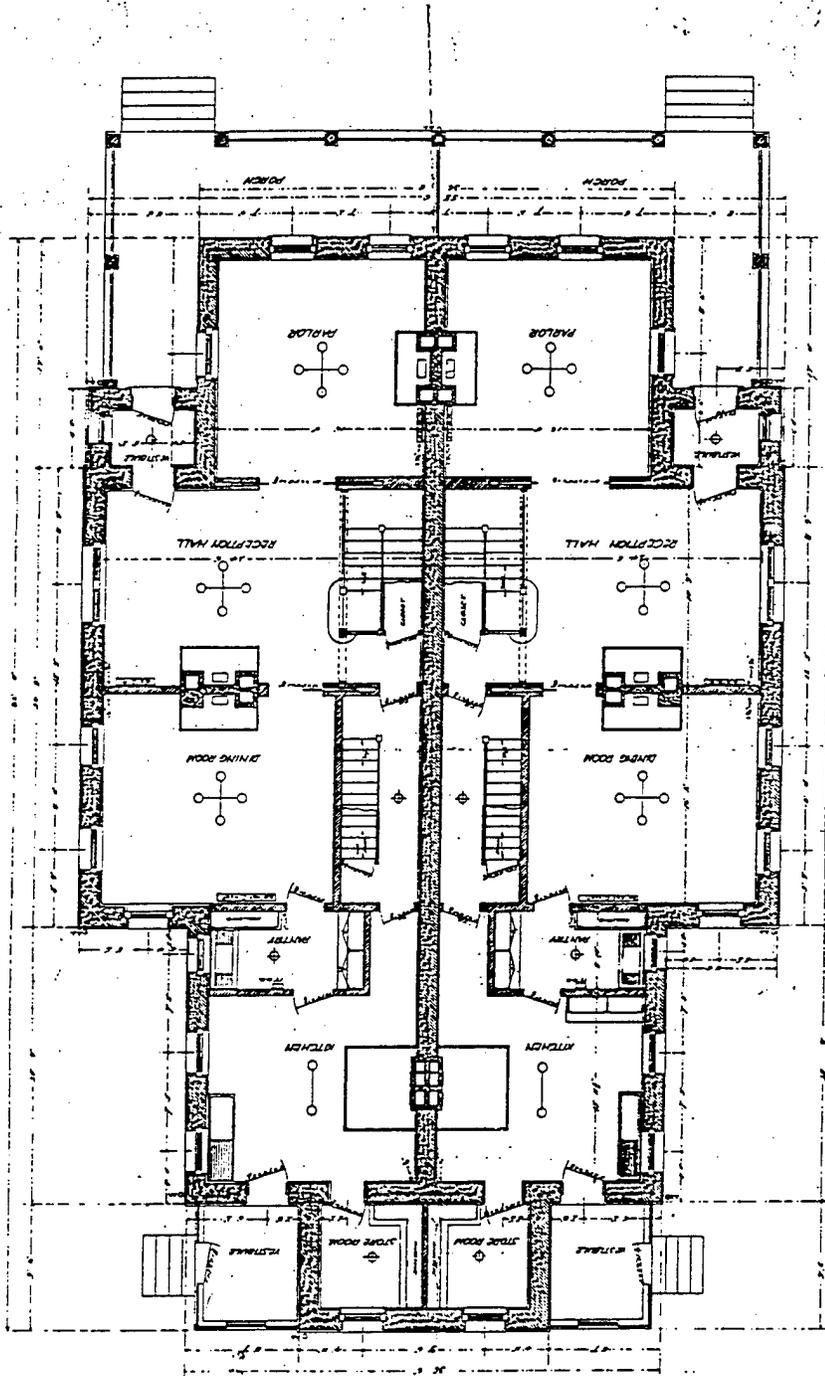


BASEMENT PLAN

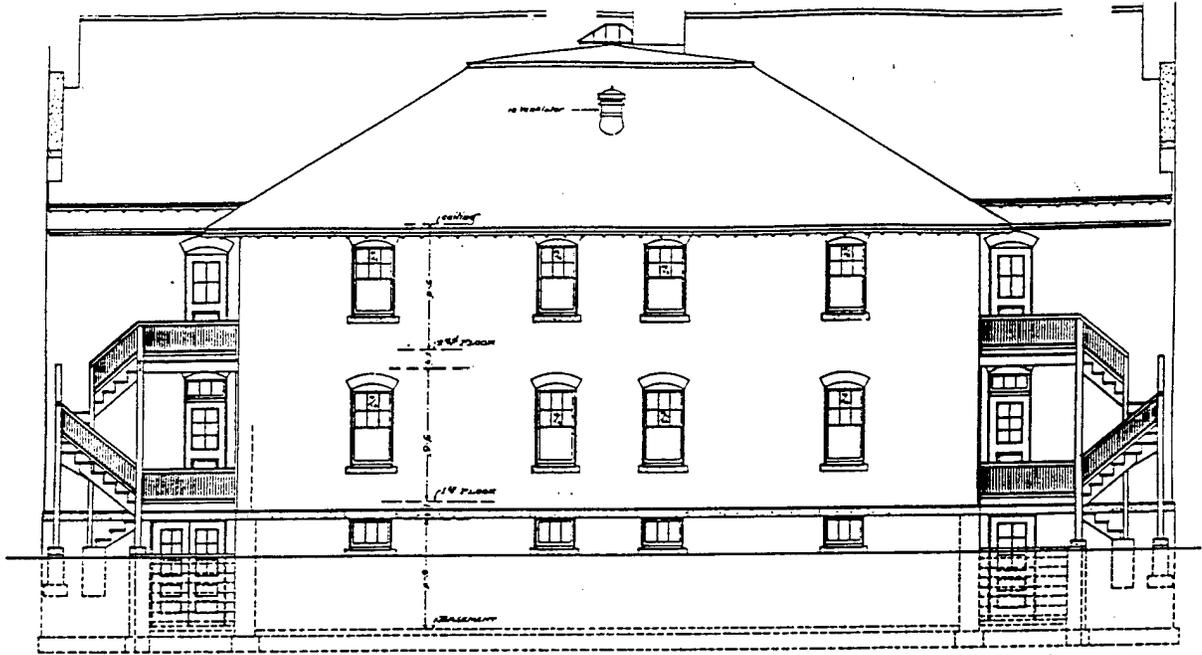
SCALE 1/4" = 1'-0"

SPL 3-318
DOUBLE QUARTERS FOR OFFICER
AT Ft RILEY KANSAS
OMEGA JAN-1991
SHEET NO 4

HO 018-05.c11



PLAN of First Floor
Scale 1/4" = 1'-0"



REAR ELEVATION
SCALE 1/4 INCH.

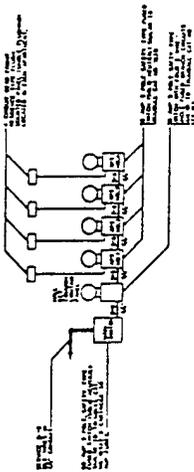


END ELEVATION
SCALE 1/4 INCH.



DRAWING NO. 2374
 OFFICERS QUARTERS
 + OFFICERS
 MARCH 1903
 10100...

CIRCUIT GROUPING
 GROUPING OF CIRCUITS TO BE MADE AS SHOWN ON THIS SHEET.
 GROUPING OF CIRCUITS TO BE MADE AS SHOWN ON THIS SHEET.



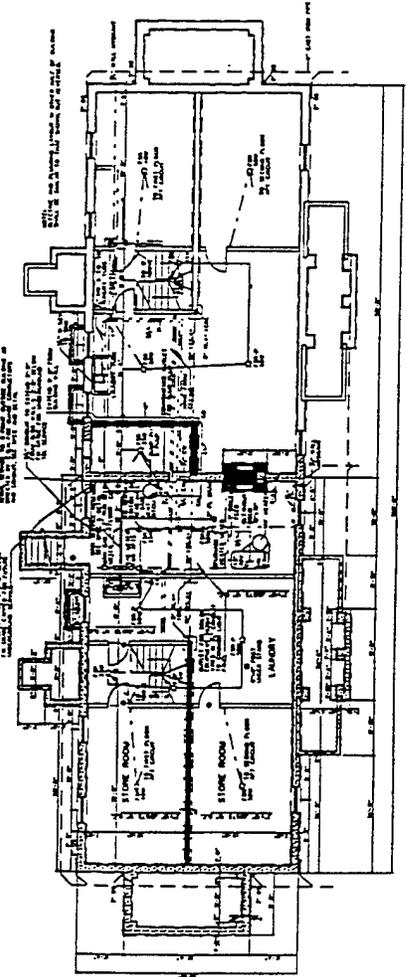
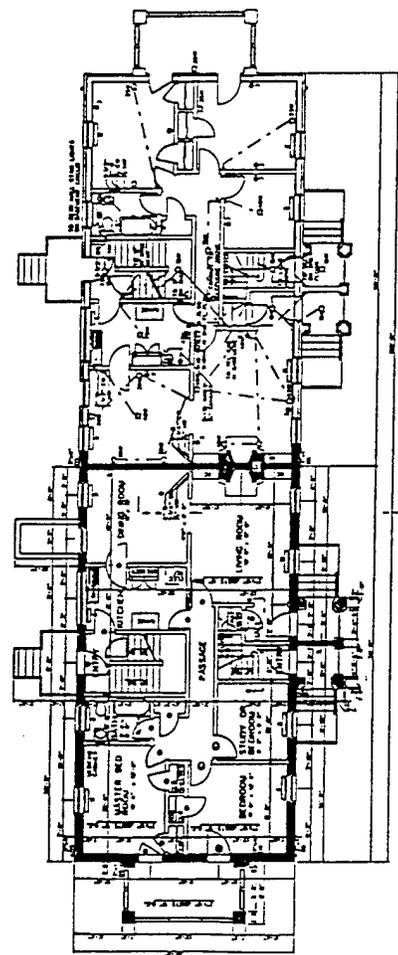
PLUMBING SYMBOLS & NOTES

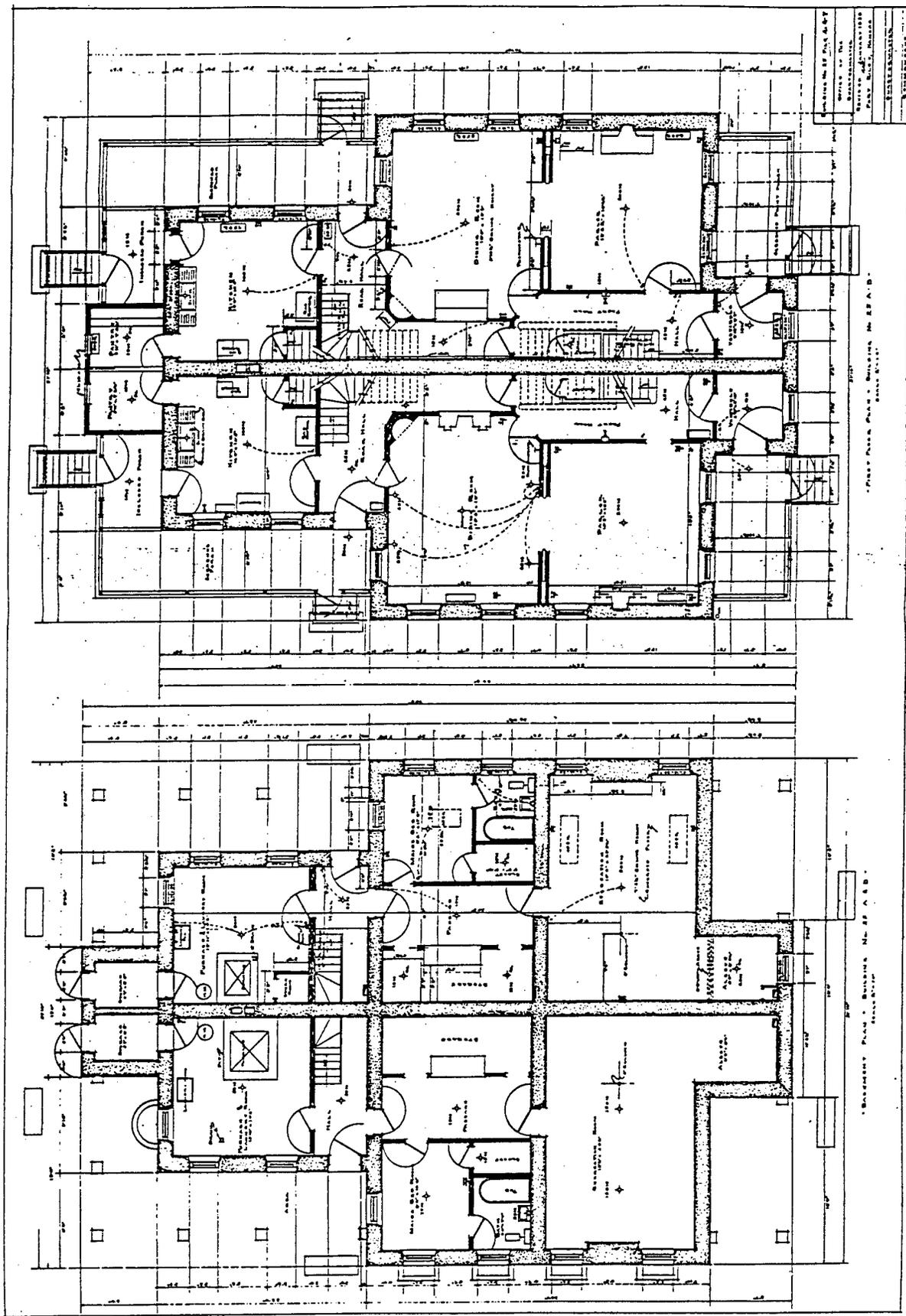
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

NOTES:
 1. ALL PLUMBING TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PLUMBING CODE.
 2. ALL PLUMBING TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PLUMBING CODE.



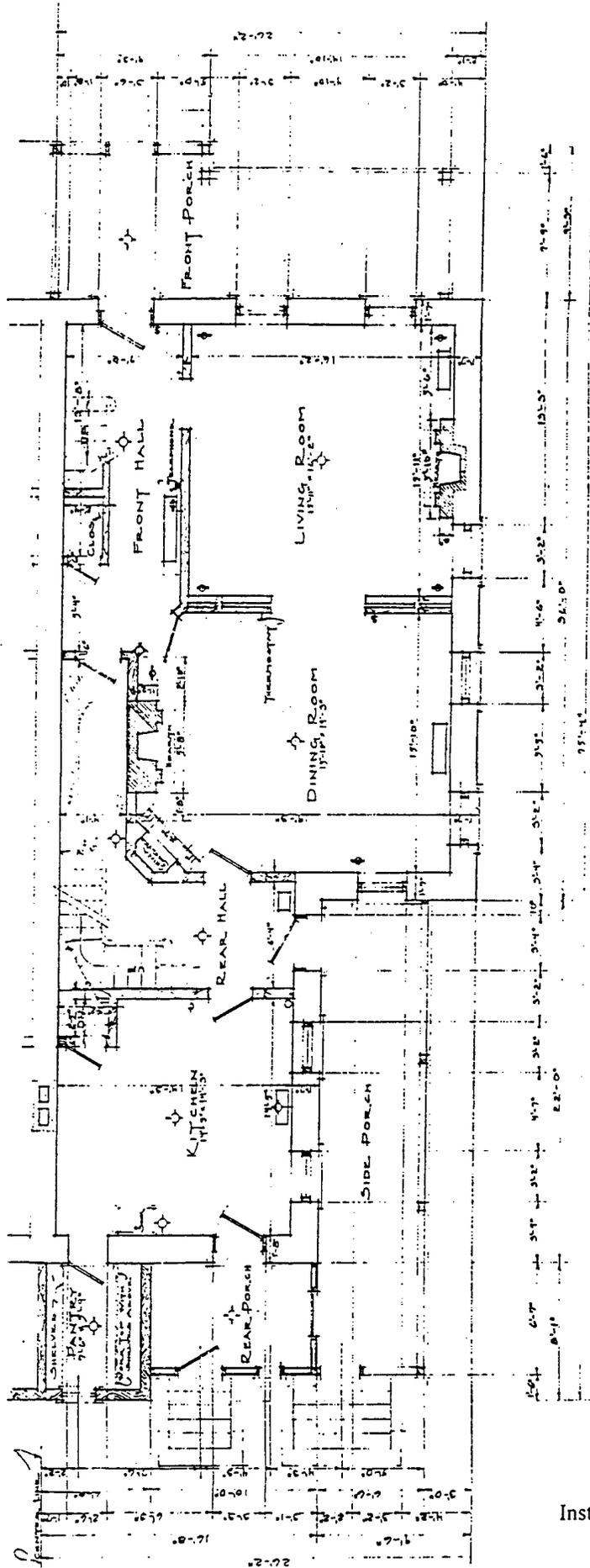
| | | | | |
|--------------|---------|----------|------------|-------------|
| PROJECT NO. | DATE | BY | CHECKED BY | APPROVED BY |
| 10000-00-000 | 10/1/50 | J. H. B. | J. H. B. | J. H. B. |





DRAWING NO. 12, 12, 12, 12, 12
 SHEET NO. 12, 12, 12, 12, 12
 PROJECT NO. 12, 12, 12, 12, 12
 DATE 12, 12, 12, 12, 12
 ARCHITECT
 ENGINEER

12, 12, 12, 12, 12
 NO. 12, 12, 12, 12, 12



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

PLO. 25A11 P. 449
 O.M.C. Army Army Corps
 Revision: Dec. 1918
 QUARTERMASTER
 COMMANDANT
 10023.87.CIT

Category: RESIDENTIAL

Type 9 d-1: Family Housing Support Buildings: Garages

Description:

Garages were constructed behind family housing quarters starting in the early twentieth century, around the same time that they appeared in civilian communities. The one-story garages often matched the construction materials of the housing and usually displayed minimal architectural character or ornament. One-car, two-car, and shared multiple-car garages were constructed.

Evolution:

Private cars became popular during the early years of the twentieth century. By 1913, the Army Quartermaster Corps issued a standardized plan for a two-car garage. The plan depicts a garage clad in corrugated metal with two sets of paired side-hinged swinging doors leading to the interior space, which was open except for a corner storeroom for oil and gasoline. By 1915, the Quartermaster Corps issued a plan for multiple-car garages.²⁸ The earliest garages associated with private cars identified during the field survey conducted for this study were wood-frame buildings constructed during the 1920s. Often the early garages were constructed of salvage materials.

During the Army's inter-war construction program, private garages were included in family housing complexes of many new Army and Army Air Corps installations. Garages, usually for multiple cars, were constructed of the same materials as family housing and matched, though with simpler details, the general architectural style of the post. In general, garages were located behind officer and non-commissioned officer housing. During the late 1930s, the Construction Service of the Quartermaster Corps experimented with garages attached to family housing units. The Army also added garages behind officers rows at older posts; these garages usually were simple brick or wood frame structures.

Association:

Garages are minor support buildings in housing complexes. They are associated with the widespread use of the private automobile and incorporation of the car into domestic life. Garages do not possess individual significance, but may be contributing elements to an installation historic district, particularly where the garages were designed and constructed at the same time as the housing area in a compatible design.

²⁸ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891-1918, Plans 313, 396.

Integrity:

Garages must retain their location and setting in relation to the housing for which they were built. Garages also should retain most of their design and materials from their period of construction. Garages constructed before 1940 often no longer serve their original function and are used as storage facilities. Exterior elements that may have been modified include roof and wall material and doors. In cases of subsequent additions or modifications, garages still may possess sufficient integrity to contribute to an historic district if they retain the majority of their relationship to the housing area, their overall design, and the majority of their materials and workmanship.

Category: TRANSPORTATION

Type 10 a-1: Air-Related: Airplane Hangars

Description:

Military aviation before 1940 can be divided into two programs: heavier-than-air (HTA) aircraft, which included land planes and seaplanes, and lighter-than-air (LTA) aircraft, which included balloons, blimps, and dirigibles. Hangars were constructed to store and repair both types of aircraft. Airplane hangars were one-story buildings with gabled roofs, large entrances on the gable end, and large windows along the side elevations. Early hangars generally were constructed of wood frame; as the military aviation program expanded, steel frame and masonry hangars were constructed. Hangar size was related directly to aircraft size. Airplane hangars and their support buildings usually were located in a row near the installation flight line.

Evolution:

The U.S. Army Signal Corps first experimented with heavier-than-air craft in 1908 when the Wright brothers demonstrated their airplane for Army officials at Ft. Myer, Virginia. The Wrights opened a flying school in College Park, Maryland, to train a handful of Army aviators. Square, wood-frame, barn-like structures served as the hangars.

In 1911, the Quartermaster Corps issued its first standardized plan for a Signal Corps hangar. The plan depicts a square, 46 by 46 ft., wood-frame building with a segmental arched roof.¹ The walls were clad in board-and-batten wood siding. One elevation consisted of six large doors: the end doors were hinged, the middle doors slid on overhead tracks. By the end of October 1912, the Army owned eleven planes, nine of which were in operation.²

During the early years of Army aviation, despite the existence of standardized plans for hangars, pilots often made do with primitive airfield facilities. In 1913, the Signal Corps moved its flying school from College Park to Glenn Curtis' flying school at North Island, San Diego, California. The Signal Corps Aviation School at North Island first consisted of an "old barn and shed, left over from some earlier activity, and a canvas hangar and lean-to without floors and doors put up by the army to house the ... planes."³

The National Defense Act of 1916 raised appropriations for military spending. The 1916 National Defense Act included funding for construction of Langley Field, near Hampton, Virginia, which was designed as a testing facility for the National Advisory Committee for Aeronautics and the military. In January 1917, the Signal Corps selected noted industrial architect Albert Kahn as Architect-in-Chief of the Army Signal Corps; Kahn and his firm began

¹ National Archives and Records Administration, Cartographic Branch, Record Group 77, Standard Plans of Army Post Buildings 1891-1918, P.I. NM-1 9, Entry 411, Plan 295.

² United States Air Force, Historical Division, *The United States Air Arm, April 1861-1917*, USAF Historical Study No. 98, Maxwell AFB, Alabama, Air University, 1958, 73.

³ United States Air Force, Historical Division, *The United States Air Arm, April 1861-1917*, 86.

work on the design of a permanent airfield at Langley in 1917. On the eve of American involvement in the World War I, the Army had seven flying fields in the continental United States: San Diego, California; Ft. Sam Houston, Texas; Mineola (Hazelhurst), New York; Ft. Sill, Oklahoma; Chandler Field, Pennsylvania; Langley Field, Virginia; and Kelly Field, Texas. The Army also operated an airfield in the Philippines and one in Hawaii.⁴ No structures predating 1917 remain on those installations still under federal ownership.

In April 1917, the United States entered World War I. The rate of permanent construction slowed as resources were devoted to the construction of wartime mobilization cantonments. Albert Kahn developed standardized plans for temporary airfields; he completed the basic airfield design in ten days in May 1917. The plan for a standard single-unit training field required 54 buildings and accommodated 100 aircraft, 150 student pilots, and the training cadre. The airfield layout was based on a one-mile-square section, with all buildings situated in a row on one side of the runway.⁵ This basic linear design pattern was implemented for early Signal Corps mobilization fields, such as Scott Field, Illinois, and Selfridge Field, Michigan.

An intact, World War I hangar remains standing at Brooks AFB, Texas. This airfield, originally called Kelly Field #5, was laid out according to a 1917 Albert Kahn plan. The hangar is a wood-frame building with a gambrel roof and sliding doors on tracks that extend beyond the building. The Army also constructed metal hangars to supplement wood-frame airfield facilities. At Kelly Field #5, an all-steel, 66-foot wide hangar was constructed. Metal hangars had the advantage of portability and could be mass-produced. The Quartermaster General's Office issued new standard plans for hangars in 1917. These plans depict a metal frame structure with galvanized, corrugated iron walls and doors along the gable and elevations of the building.⁶

In addition to the temporary mobilization camps, the Army proceeded with two permanent airfield projects, Langley Field and Rockwell Field, California, both designed by Albert Kahn. At Langley, permanent brick hangars were completed by 1919. These hangars incorporate decorative terra cotta and brickwork similar to other Kahn projects for civilian installations in Michigan. The Langley hangars display the large corner piers that later became a characteristic feature of Army hangar design. In 1917, a joint Army-Navy board selected North Island in San Diego as the site for an aviation school to train desperately needed pilots. The Army portion was designated Rockwell Field. Kahn designed the buildings in a simplified Spanish Mission revival style. Three hangars were constructed of reinforced concrete and hollow clay tile, finished with stucco, and topped with clay-tile roofs. Military architects and planners repeatedly used Spanish Mission style elements in the design of hangars, and other utilitarian buildings, during the inter-war years, particularly in San Diego and throughout the southwest.

⁴ Jerold E. Brown, *Where Eagles Land: Planning and Development of U.S. Army Airfield 1910-1941* (Westport, Connecticut, Greenwood Press, 1990), 30.

⁵ Jerold E. Brown, *Where Eagles Land*, 39.

⁶ Duane E. Peter, et al., *Phase 1: Cultural Resources Overview of Brooks Air Force Base, San Antonio, Bexar County, Texas*, Draft MSS, Civil Engineering, Brooks AFB, San Antonio, Texas, February, 1992, 111-53; NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plans 398, 426 - 429.

After the end of World War I, no appropriations were available for airfield improvements; Langley and Rockwell remained the only airfields with permanent facilities. Army aviators continued to use deteriorating mobilization airfields and wood-frame hangars. The Air Corps Act of 1926 authorized the expansion of Army aviation; the Chief of the Air Corps proposed improvements at 32 fields and construction of two other fields as part of a five-year plan. The years from 1926 to 1932 marked some of the first permanent construction and physical improvements of aviation facilities.⁷

Under this expansion program, World War I wooden hangars were replaced with fireproof hangars constructed of steel frame clad with brick or stucco-covered hollow clay tile. The typical hangar constructed in the early 1930s was rectangular, with a gable roof, distinct corner piers, concrete floor, steel sash windows along the side elevations, and sliding metal doors on overhead tracks at the gable end. The roofs often were painted in alternating light and dark squares. Hangars completed at Randolph Field, Texas, in 1931 were 113 by 220 ft. and had capacity for 30 planes.⁸ Hangars of this type were constructed singly or attached as pairs; single hangars generally were oriented with their gable ends perpendicular to the flight line, while paired hangars faced the flight line. A double hangar at Barksdale Field, Louisiana, measured 243 by 120 ft. and accommodated 52 planes.⁹

Army hangars constructed in 1934 and later had segmental-arch roofs supported by steel bowstring trusses. The arched roof form offered greater interior height. Hangars of this type have larger corner piers than their gable-roofed predecessors. In some cases, the control tower was incorporated into the top of the corner pier nearest the runway. A double hangar of this type at Pope Field, North Carolina, was 333.5 by 124 ft. and contained storage facilities, toilets, locker room, shop, gunnery, and radio room.¹⁰

By the end of the 1930s, aircraft design had changed greatly as airplanes increased in size and wingspans grew wider. New hangars were larger to accommodate the airplanes' increasing size. By the late 1930s, the Army had simplified some of its hangar designs, deleting stylistic references and the distinctive corner piers. Metal cladding over the steel frame replaced the characteristic masonry of the early and mid 1930s; the sliding doors were steel sash; and, the side elevations were blank. After the start of World War II mobilization, use of steel was restricted to weapons and other essential industrial production; the Army once again turned to wood-frame hangars to house its rapidly expanding air force. A few airfields received permanent hangars during the early 1940s, including Ft. Knox, Kentucky, and Wright-Patterson, Ohio. These hangars retained the segmental-arch roof, steel-sash sliding doors, and masonry-clad steel frame construction of early hangars; however, their size dwarfed earlier hangar construction.

⁷ Brown, *Where Eagles Land*, 73-89.

⁸ NARA, Suitland, Federal Records Center, RG 77, Historical Record of Buildings, 1905 - 1942, Randolph AFB, Texas.

⁹ NARA, Suitland Federal Records Center, RG 77, Historical Record of Buildings, 1905-1942, Barksdale, AFB, Louisiana.

¹⁰ Lesley M. Drucker, "Architectural and Historical Documentation of the Original Cantonment Area and Hangars 4 and 5, Pope Air Force Base, North Carolina," Resource Studies Series 83, Carolina Archeological Services, MSS, Civil Engineering, Pope AFB, North Carolina, 1985, 23.

The expansion of the Air Corps and its facilities during the 1930s prompted the development of supporting structures around the hangars and flight line. Ground support buildings typically included control tower, repair shops, dope (lubricant or varnish) and paint shops, and storage facilities. These supporting facilities often were constructed in materials and designs similar to or compatible with the adjacent hangars, though their utilitarian functions were the primary determinant of their design and location.

Association:

Airplane hangars and their attendant support structures are associated directly with the evolution of military aviation. Aviation is a significant development in military tactics and strategy and is associated with the development of the military, starting immediately before World War I. Hangars also are associated with the theme of technology. Hangars are a distinct property type that evolved over time in response to the development of aircraft design.

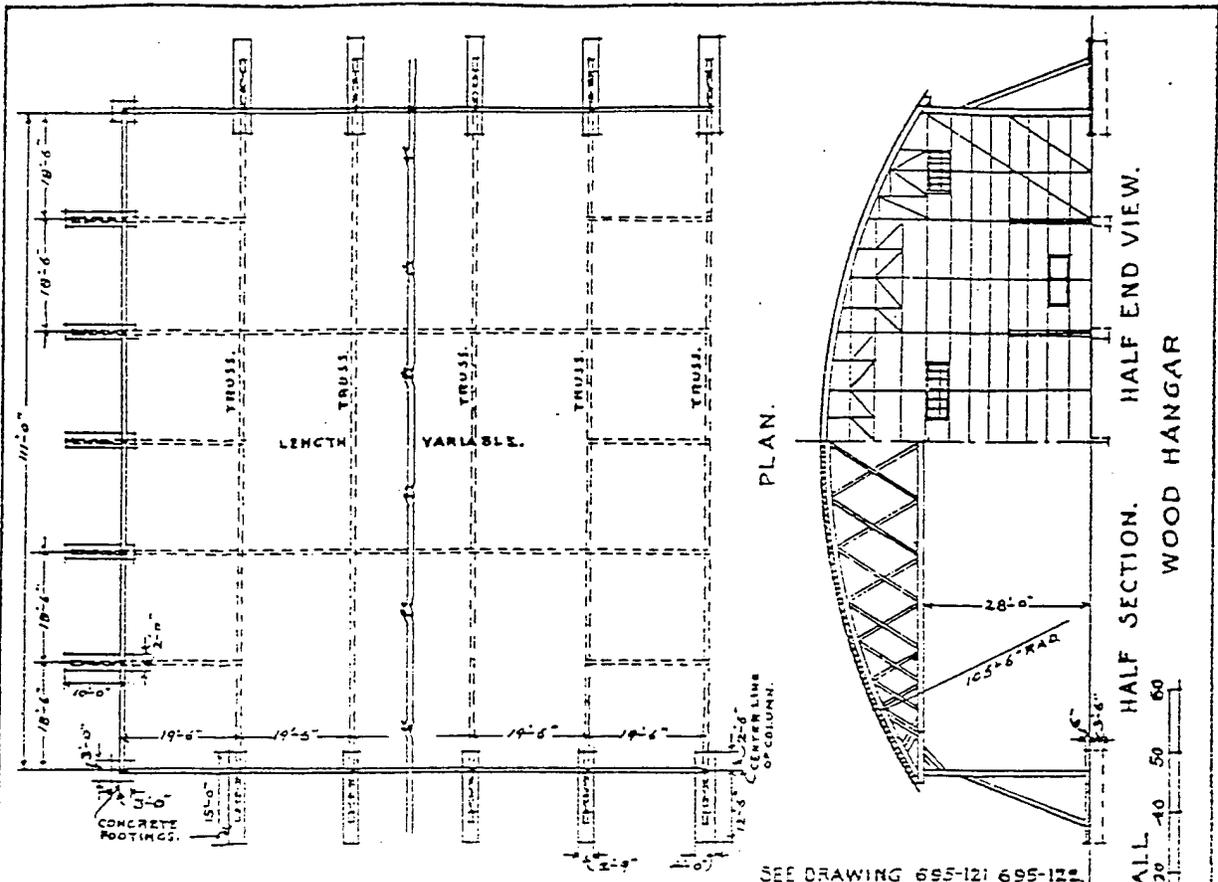
Many military installations have aviation facilities. Depending on the role of aviation in the installation's historical mission, the hangars and support structures may consist of one or two small, utilitarian buildings or may constitute a major component of the installation. Aviation supported the primary mission at some installations, while at other installations, aviation was the primary installation activity. A hangar may possess individual significance for architectural or engineering merit, or may contribute to an installation historic district that represents the theme of military aviation or a distinguishable entity. Associated support facilities such as storage buildings, repair shops, control towers, aprons, or run ways may constitute important contributing features to an historic district.

Integrity:

Many smaller, older hangars have been converted to new uses, while some larger hangars from the late 1930s continue to function as airplane hangars. To possess integrity, hangars and their support structures should retain most of their architectural and engineering design features and external construction materials from their period of construction. Character-defining features include the overall shape of the building, original construction materials, fenestration on the side elevations, large door openings and sliding doors at the end elevations, and corner piers. Exterior elements that may have been modified include doors and windows; if replacement doors and windows retain the same placement and similar materials as the originals, and the hangar still conveys the overall design from the period of significance, it may still possess integrity. Small, ancillary additions that do not overwhelm the basic block of the hangar do not diminish substantially the building's integrity. If the building is under consideration for nomination to the National Register as an individual building, rather than as part of an historic district, the interior should retain sufficient integrity to convey the construction and interior configuration of the hangar during its period of significance. An historic district composed of hangars and their support buildings does not need to retain the interior integrity and may better represent the theme of aviation than isolated hangars that once were part of a complex of buildings.

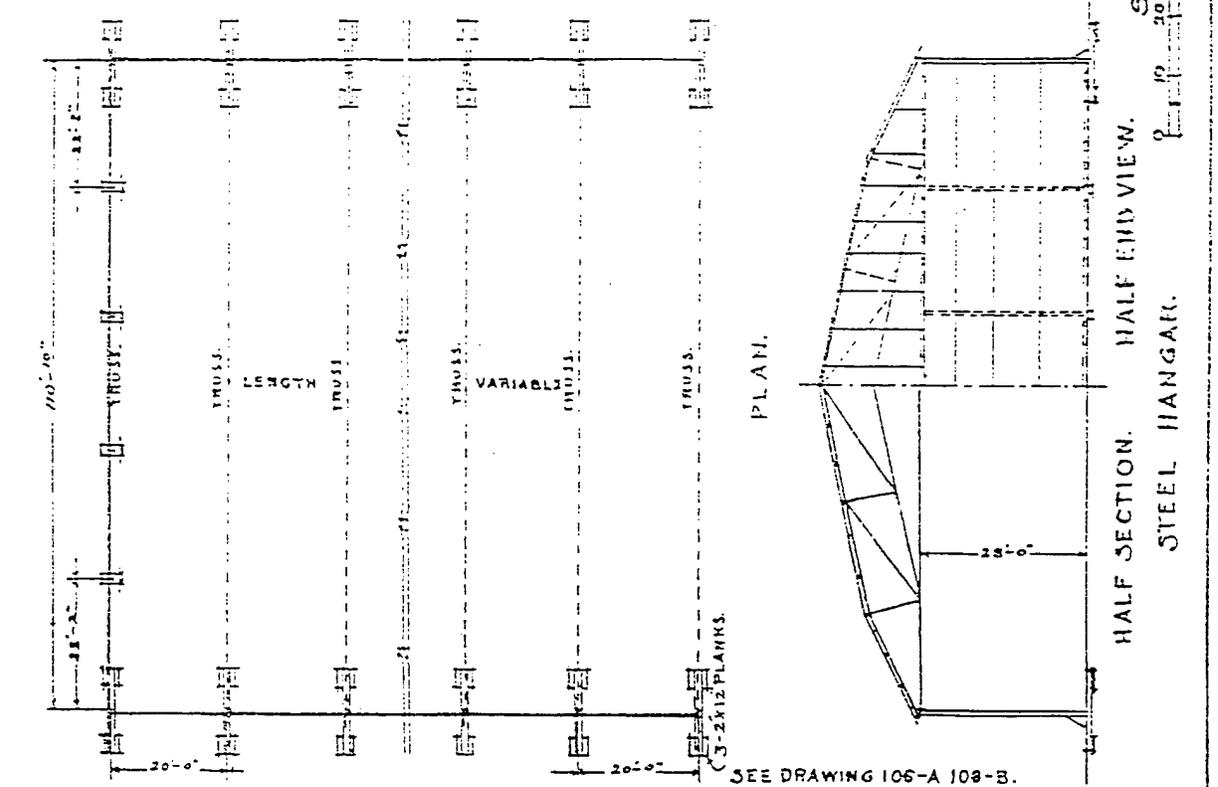


1938-39 Airplane Hangar 1 at McChord AFB, WA



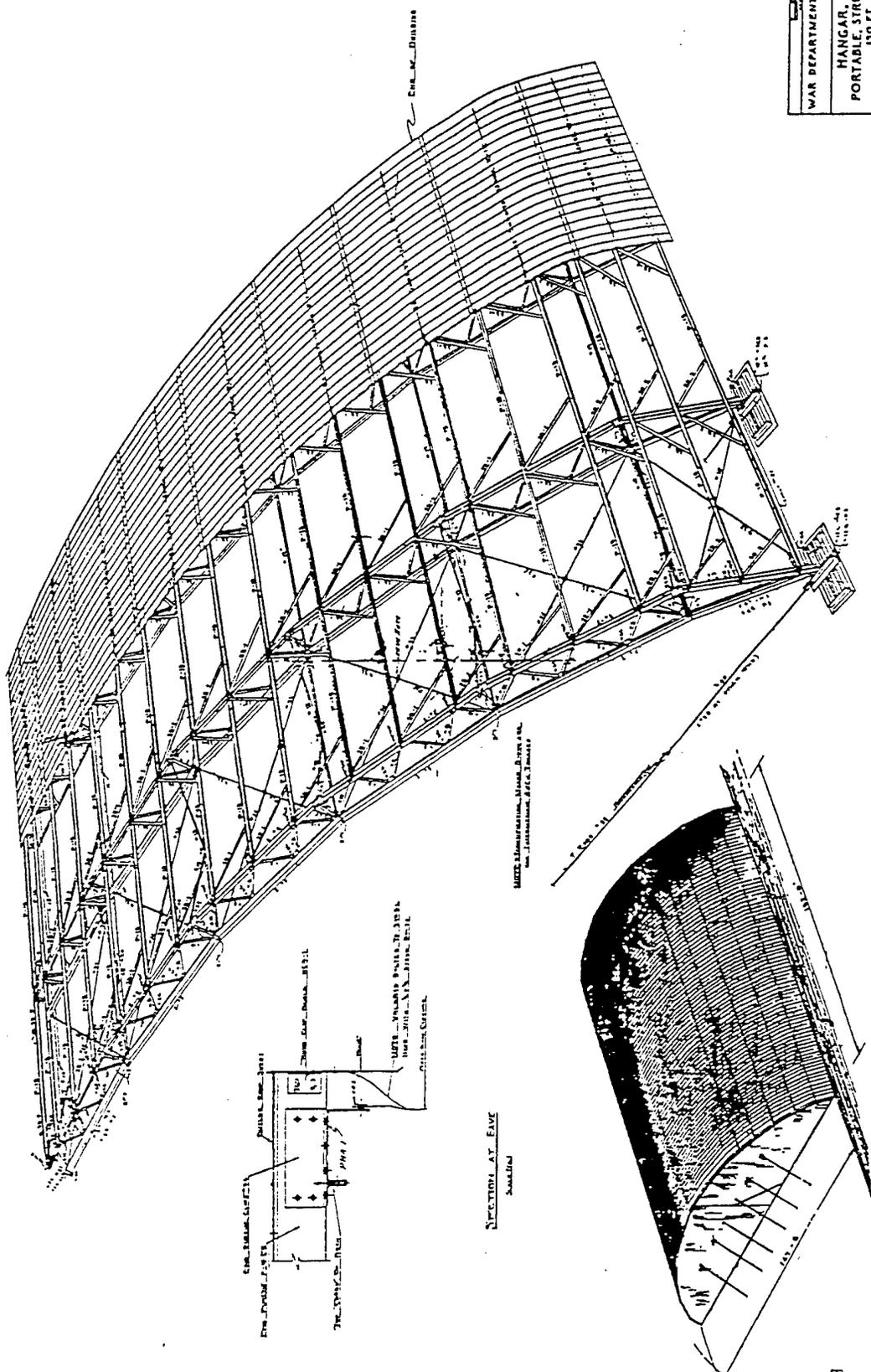
SEE DRAWING 695-121 695-122

SCALE 0 10 20 30 40 50 60



SEE DRAWING 106-A 106-B.

CONSTRUCTION DIVISION OF THE ARMY. SB-9
 STANDARD STEEL & WOOD HANGARS

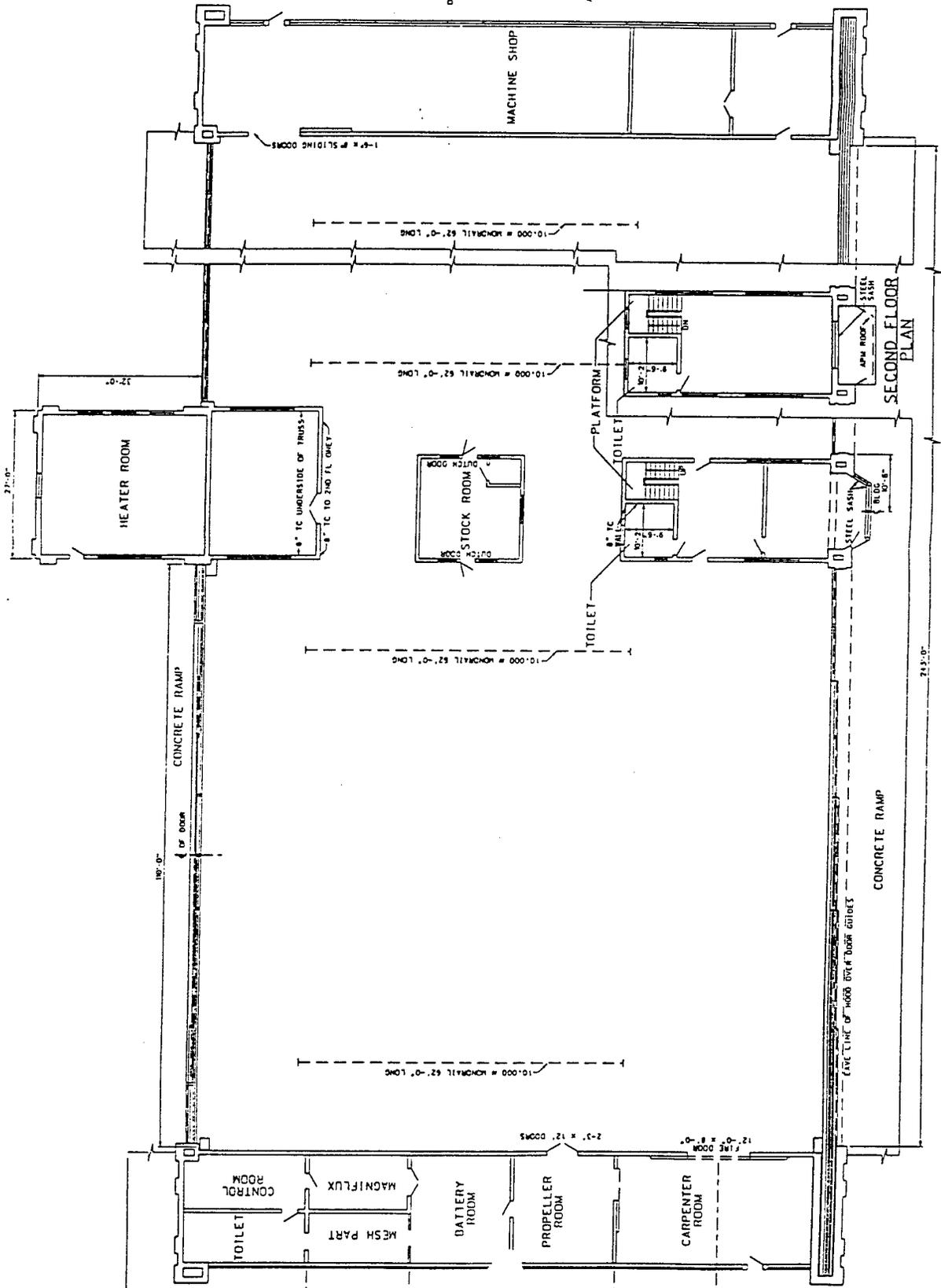


WAR DEPARTMENT TECHNICAL MANUAL
 HANGAR, AIRPLANE
 PORTABLE, STRUCTURAL STEEL-
 130 FT. x 100 FT.
 STEEL COVER, WITH GLASS ROOF
 PERSPECTIVE VIEW OF HANGAR
 SELECTION DRAWING C-101

ROOF SHEETS - BUTLER MFG. CO. TYPE-CORRUGATED-12" ON CTRS.
 SEE DRAWING 264 C-101 FOR 3-CORRUGATED TYPE

h1980_01.cit

h1980_01.cit



DRINKING WATER
 TRACED BY LAM, ROB
 DATE: JAN. 8, 1931

CONSTRUCTION DIVISION
 OFFICE OF THE CHIEF ENGINEER
 AIR CORPS

PLAN NUMBER
 8-2-1
 H0741-14-004
 BRIG GEN., OMC

APPROVED FOR THE CHIEF OF AIR CORPS
 DATE JAN. 8, 1931

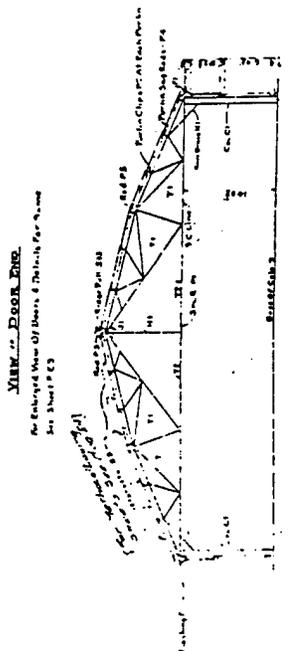
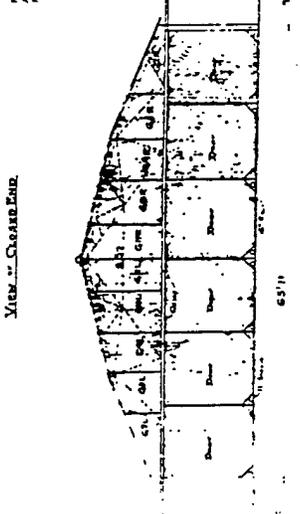
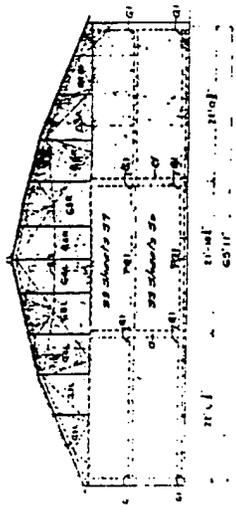
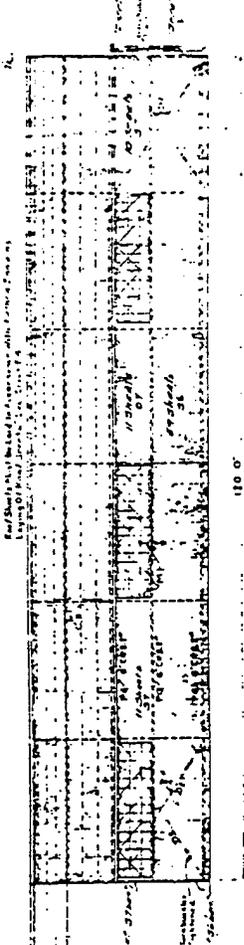
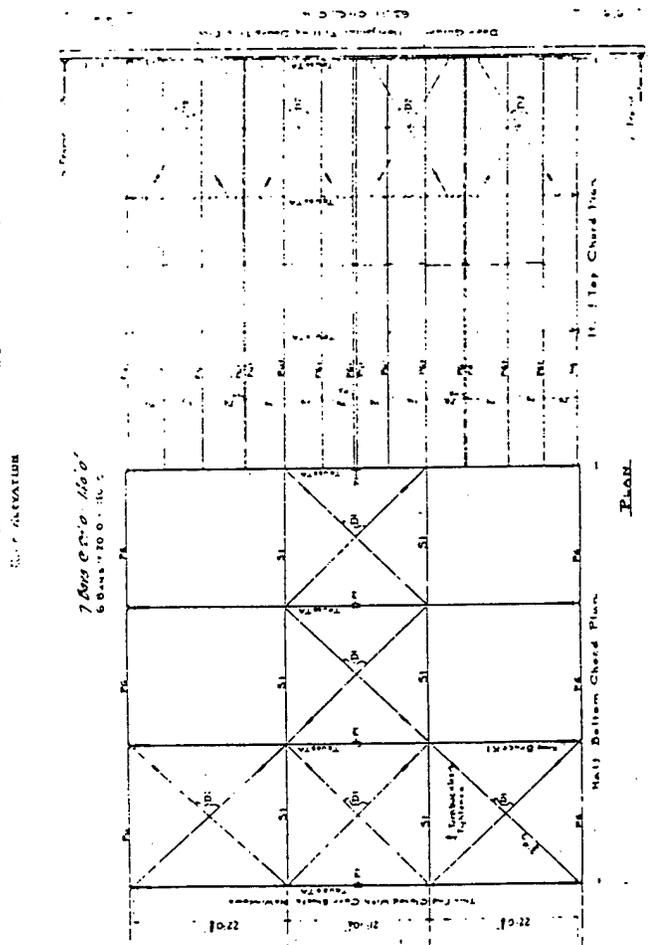
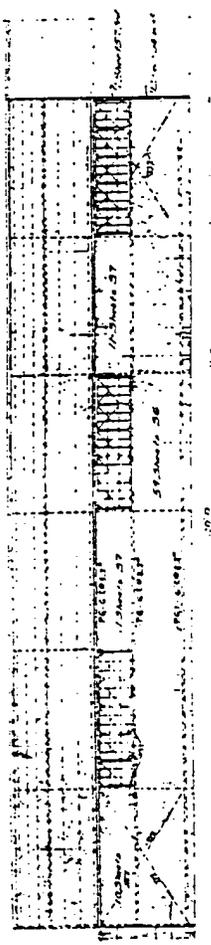
REVISIONS
 HEATING ROOM

AIR CORPS HANGAR
 ARCHITECTURAL PLAN
 SCALE: 1/4" = 1'-0"

FIRST FLOOR PLAN

SECOND FLOOR PLAN

m0741_14.dgn



APPROVED BY: [Signature]

FOR THE CHIEF OF AIR SERVICE

STATE: THIS DESIGN WAS PREPARED AND MATERIALS PROVIDED BY THE AIR SERVICE ENGINEERING DIVISION FOR CONSTRUCTION PURPOSES ONLY AND INVOLVE NO APPROVAL OF THE STRUCTURAL DESIGN.

APPROVED BY: [Signature]

FOR THE CHIEF OF AIR SERVICE

APPROVED BY: [Signature]

FOR THE CHIEF OF AIR SERVICE

APPROVED BY: [Signature]

FOR THE CHIEF OF AIR SERVICE

Category: TRANSPORTATION

Type 10 b-1: Animal-Related: Stables and Stable Complexes

Description:

Stables were constructed to house horses or mules and were an important part of nineteenth- and early twentieth-century Army posts associated with the cavalry and artillery. Stables also were associated with installation or regional quartermaster logistical and supply activities. Stables typically were long, rectangular, gable-roofed structures, with doors at the end elevations and windows along the side elevations. Most surviving examples were built of brick or stone. The stables for different branches are located in distinct areas of the post. The quartermaster stables generally were one-and-a-half stories with the half story used as a hay loft; they typically display little architectural detailing. Cavalry and artillery stables were constructed generally as separate complexes consisting of stables, stable guard houses, and blacksmith shop. Artillery stable complexes also included gun sheds. Cavalry and artillery stables are characterized by monitor roofs and, at permanent installations, by a greater degree of architectural detailing than that found on other types of stables.

Evolution:

Quartermaster stables and corral for the animals used to transport provisions were standard components of nineteenth-century western posts. Corrals were large square enclosed areas to protect horses from attackers. Stables at the many temporary, frontier posts were utilitarian, long, rectangular buildings located apart from the parade ground, near the shop buildings. Quartermaster stables gradually disappeared when railroads became the primary means of transporting supplies to Army installations. Yet, isolated installations continued to rely on wagon suppliers until the advent of trucks and motorized transport, sometimes until the 1930s. The Quartermaster stables identified in this study have remained remarkably similar over time. The typical example of a Quartermaster stable is rectangular, one-and-one-half story building, with stalls on the ground floor and a storage area in the half story. Most installations had no more than a few Quartermaster stables.

During the nineteenth and early twentieth centuries, cavalry and artillery regiments required horses as the main support for their missions. At the small frontier posts of the mid-nineteenth century, cavalry horses were stabled directly behind the barracks. Unofficial Army regulations proposed in 1860 recommended enclosed stables with a central corridor lined with stalls.¹¹ At frontier posts, stables were arranged in blocks with open stalls facing each other, or they were arranged in rows. The quality of stables was a matter of concern to officers; one writer noted that:

¹¹ War Department, *Regulations Concerning Barracks and Quarters for the Army of the United States, 1860*, Washington, D.C. George W. Bowman, 1861.

“From the number of suggestions received from cavalry officers about stables, it would appear that there is room for Improvement in their construction . There seems to be a general opinion that we should have closed stables where the winters are severe, and open stables where they are not. That closed stables should have ridge ventilation, and should be better lighted than they generally are.”¹²

When the Army consolidated its troops at larger, permanent posts during the 1880s and 1890s, cavalry and artillery posts required larger stable complexes. The Quartermaster Department began to incorporate cavalry and artillery stables as part of the design and overall plan for new installations. At Ft. Riley, Kansas, for example, stables and guard houses became an integral part of the installation plan. The cavalry stables were located along the southern edge of the installation, arranged in an arc. The rectangular stables were closed entirely under a gable roof with a ventilation monitor along the ridge of the roof; the interior plan consisted of a central corridor lined with stalls. This basic form of permanent cavalry stable continued until World War I. Horses were among the most valuable property at the posts; consequently, stable guardhouses were a standard component of stable complexes. The guardhouses typically were simple, one-story buildings that matched the stables in construction materials and character.

Distinct veterinarian stables and support buildings were constructed after around 1900. The first veterinarian complex was constructed at Ft. Sheridan, Illinois.¹³ Veterinarian stables characteristically were T-shaped buildings with a large arched opening at the end elevation that provided cover for both horses and supply wagons. The interior plan was similar to other types of stables. Separate veterinarian facilities were constructed at Ft. Riley, Kansas, in 1902, and at Ft. D. A. Russell, in 1908.

Artillery stables were similar to cavalry stables. The major distinction was that some artillery stables were T-shaped and narrower than the stables for cavalry horses. Artillery stables also were built in complexes consisting of rows of stables with guardhouses between the stables. Artillery stable complexes had one additional building type, the gun shed, which was used to house artillery. At Ft. Riley, the gun sheds are one-story, narrow, rectangular, gable-roofed structures arranged in a widely spaced row across from the artillery stables.

Evidence of formally planned cavalry and artillery stable complexes remains extant at Ft. Riley, Kansas; Ft. Sheridan, Illinois; Ft. Sill, Oklahoma; Ft. Myer, Virginia; and, F.E. Warren AFB (formerly Ft. D. A. Russell), Wyoming. At Ft. Sill, Oklahoma, the shaped gable ends of the 1911 artillery stables reflected the influence of the Spanish Mission Revival architecture at the new artillery post.

The Army continued to construct cavalry and artillery stable complexes during the 1930s. The Army retained its horse cavalry until 1947 and its horse-drawn artillery until the eve of World

¹² Lieut.-Colonel Anderson, Army Posts, Barracks and Quarters, *Journal of the Military Service Institution of the United States* 11 (1 881): 446.

¹³ *National Register of Historic Places Registration Form, Fort Sheridan Historic District*, MSS, National Park Service, National Register of Historic Places, Washington, D.C., 1983.

War II. However, the number of stables decreased dramatically between World Wars I and II as motorized vehicles gradually replaced horses. Stable complexes constructed during the 1930s contained the same components as earlier stable complexes, including stable guard houses, gun sheds, and a veterinarian complex. The brick artillery stables at Ft. Bragg, North Carolina, consist of one-story rectangular stable sections with one-and-a-half story blocks at the end elevations. The stable guard houses resemble NCO cottages with porches. The gun sheds are one-story buildings with garage door openings along the side and a one-and-a-half story end block.

Although mechanization eventually replaced the horse, horses remained an integral part of Army culture. Officers were expected to practice their equestrian skills. Stables were included at military schools even during the 1930s. Even the Air Service Tactical School required 25 hours of instruction in stable management until 1923.

Association:

Stables and stable complexes are associated with a time when horses were essential to military operations. Horses were not only essential to cavalry and artillery units, but were used to move military supplies. Stables also are associated closely with frontier posts and western expansion. The evolution of the design of stable complexes is related to the development of installation planning, culminating in the post planning and beautification movements of the late nineteenth and early twentieth centuries. Stables can be major components of an installation or minor support buildings. A stable complex may possess significance for its association with significant historical themes or as a distinguishable architectural entity. Both stable complexes and isolated stables should be assessed for their potential as contributing buildings to an historic district, since stables were integral to the mission and operation of Army posts during most of the period preceding World War II.

Integrity:

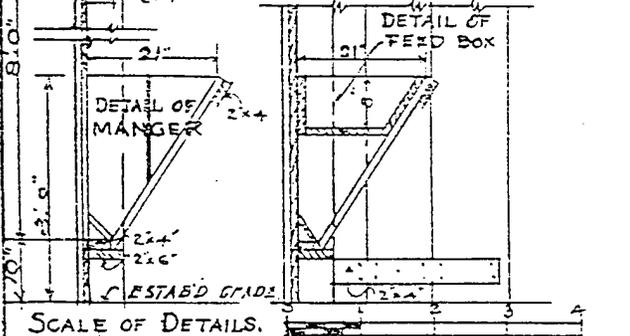
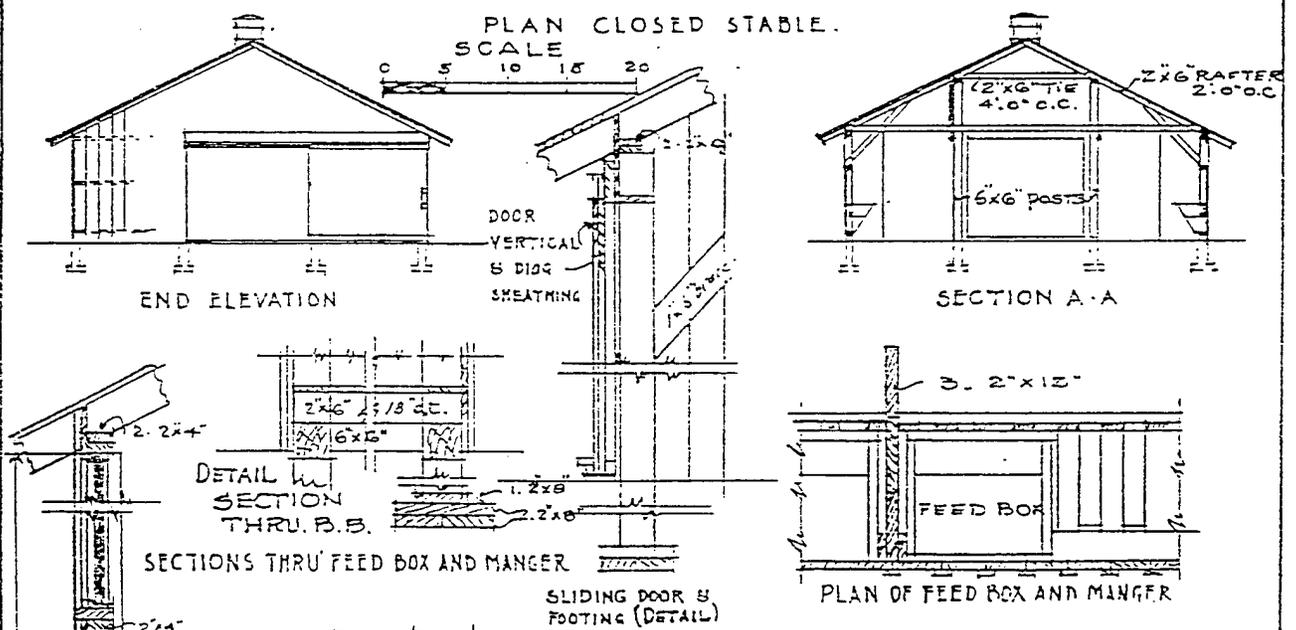
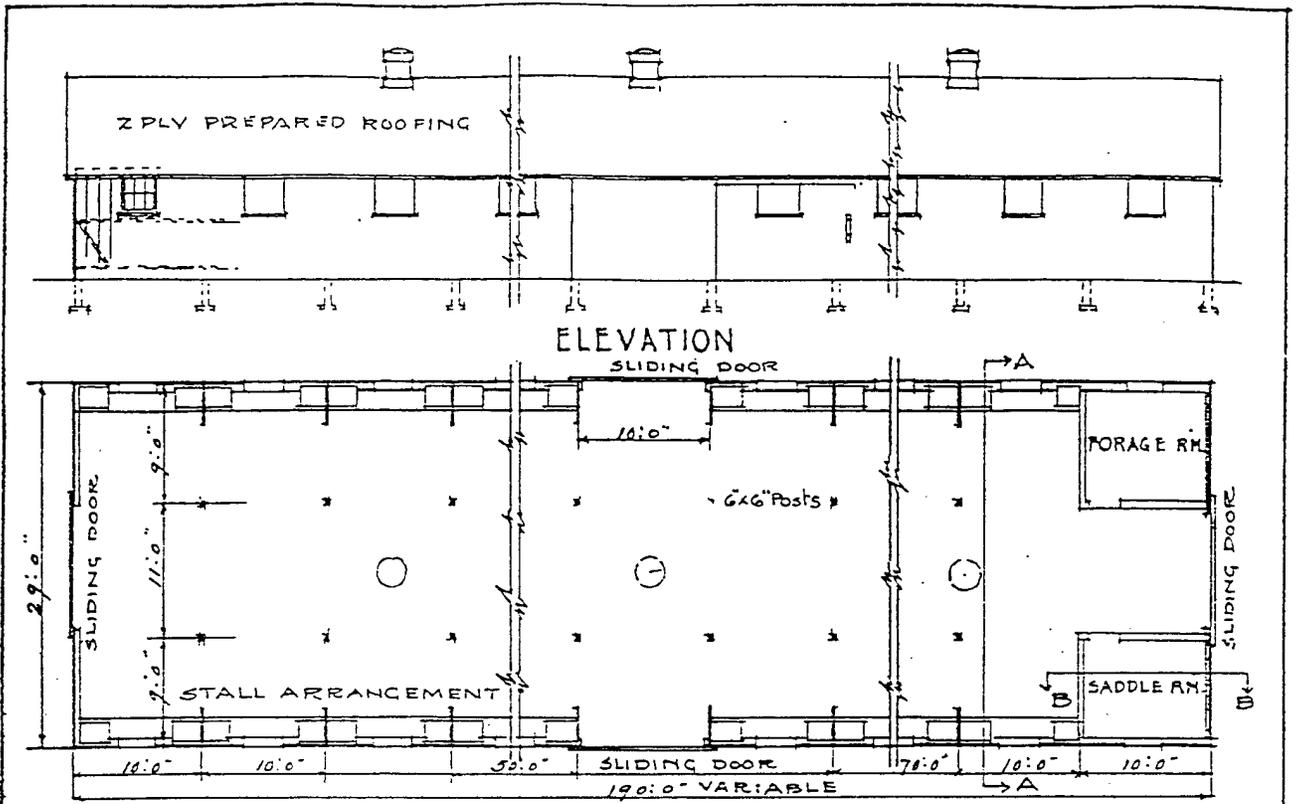
Few military stables continue to serve as stables. Most stables have been converted to other uses, including storage, offices, resident support activities, garages, and hobby shops. To possess sufficient integrity to contribute to an historic district, stables and their associated support buildings should retain their original location and most of their setting, design, exterior materials, workmanship, and association. Exterior elements that often have been modified include location and size of window and door openings and the installation of new doors and windows. In cases of subsequent additions or renovations, the stables and associated buildings still may have integrity if they retain the majority of their character-defining features, including building shape, roof design, exterior materials, overall pattern of openings, and relationship to associated buildings within the installation plan.



1909 Cavalry Stable at (Fort D.A. Russell) F.E. Warren AFB, Wyoming



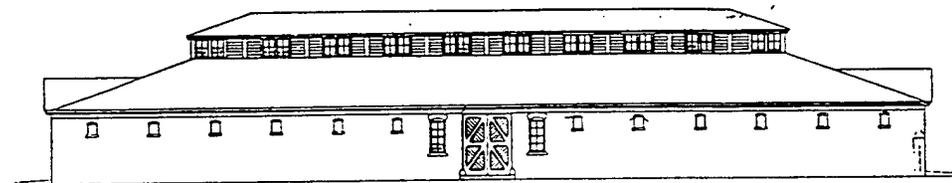
1909 Cavalry Stable at (Fort D.A. Russell) F.E. Warren AFB, Wyoming



SCHEDULE.

| LENGTH OF BLDG. | NO OF ANIMALS. | NO OF CROSS PASS. |
|-----------------|----------------|-------------------|
| 100 FT. | 36 | |
| 130 " | 40 | |
| 130 " | 44 | |
| 140 " | 48 | |
| 150 " | 52 | 1 |
| 160 " | 56 | 1 |
| 180 " | 60 | 2 |
| 190 " | 64 | 2 |
| 200 " | 68 | 2 |

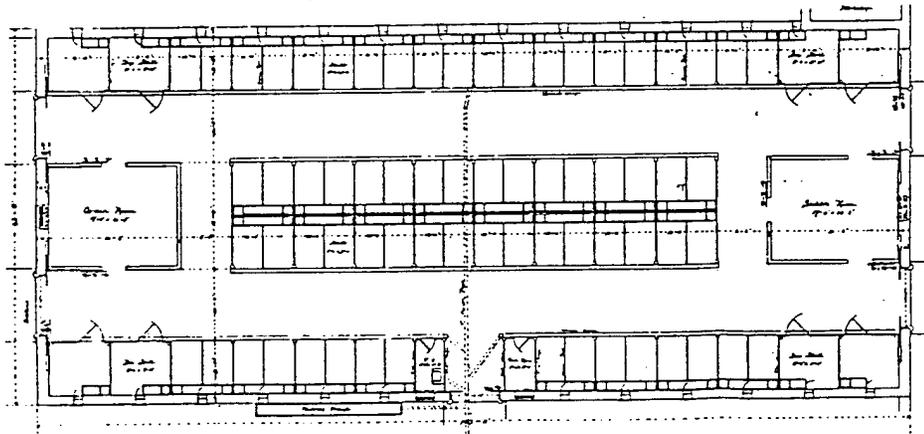
ALLOW 10 FT. LENGTHS OF BUILDING FOR EVERY 4 ANIMALS, PLUS 10 FT. FOR EACH CROSS PASSAGE AND 10 FT. FOR STORE ROOM BAY.



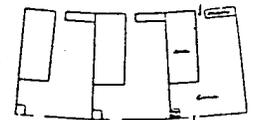
Side Elevation



End Elevation



Ground Plan

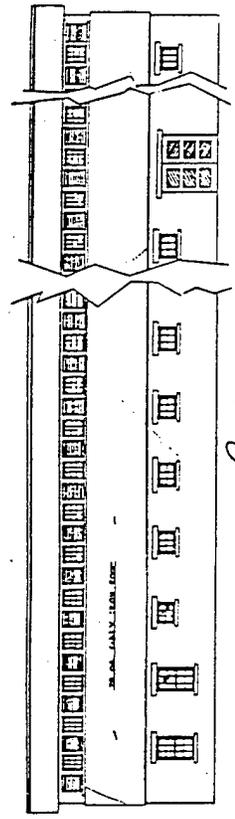


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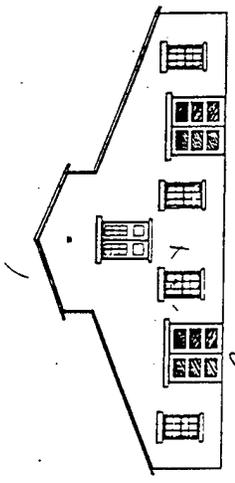
Cavalry Stables
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 Fort Riley, Mo.
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 U.S. Army
 U.S.A.

Sheet-74
 U. S. A. 110-3

263 265 MANUSCRIPT

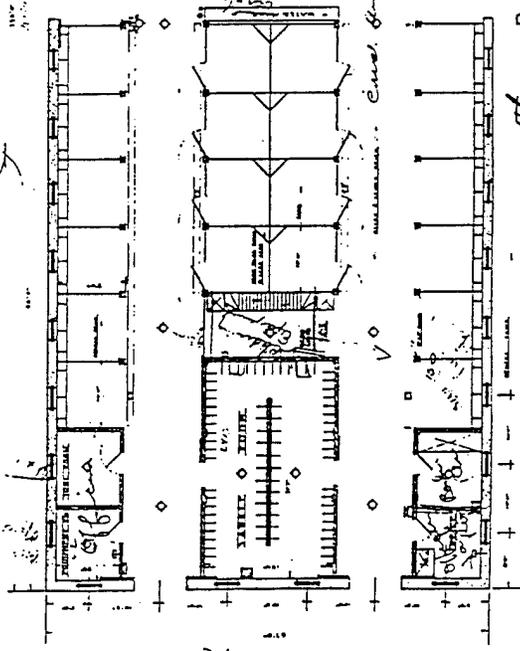


Schedale



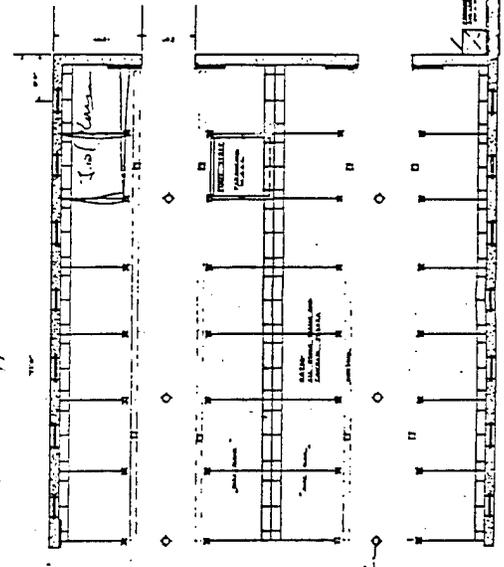
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Schedale

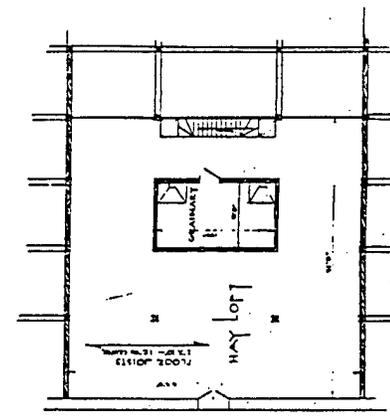


1st Floor PLAN

*State Removals Co
Typical plan*



2nd Floor



Loft PLAN

- Legend*
- BELL
 - DRAIN
 - CEILING OUTLET
 - SMOKE-ALARM
 - TELEPHONE
 - WALL SWITCH
 - WATER FITTING
 - CIGARETTE
 - SINK
 - STOVE
 - REFRIG.
 - TELEPHONE

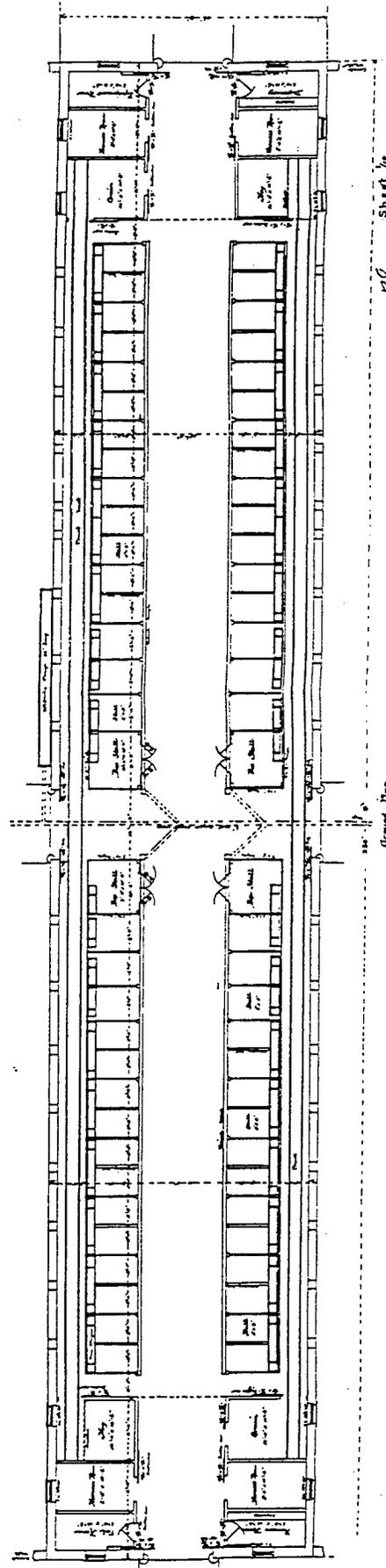
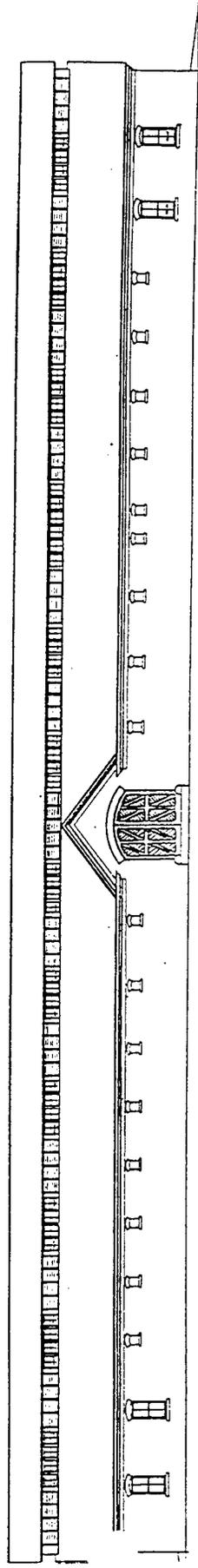
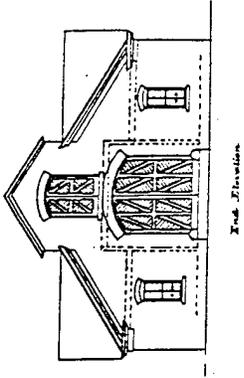
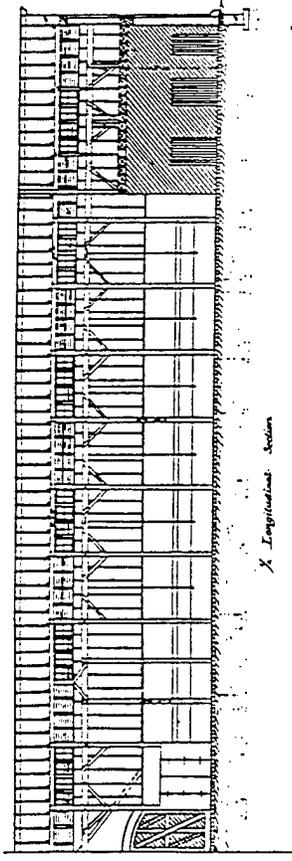
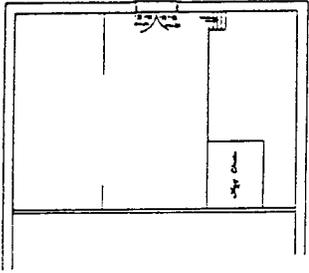
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Battery Stables

Artillery Post, Fort Riley, Kans.

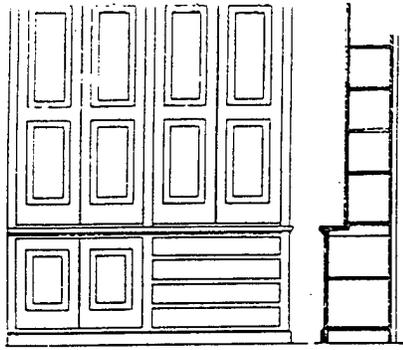
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Presented under the direction of
Capt. Geo. E. Hunt, U.S.A.
Scale: 1/4" = 1'



78
Sheets for
File A14-18

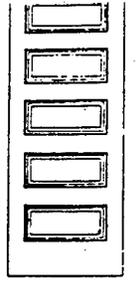
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NO 362.01.C11

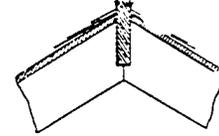


ELEVATION MEDICINE CLOSET
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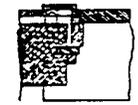
SECTION



ELEVATION OF DOOR
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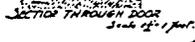
SECTION OF ROOF
Scale 1/2" = 1'-0"



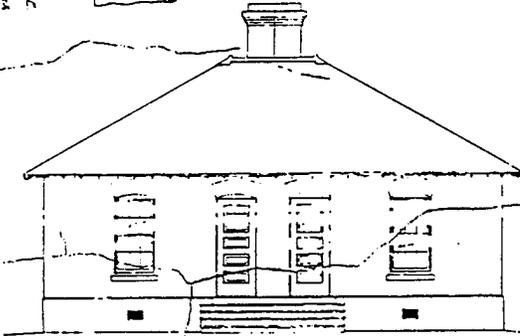
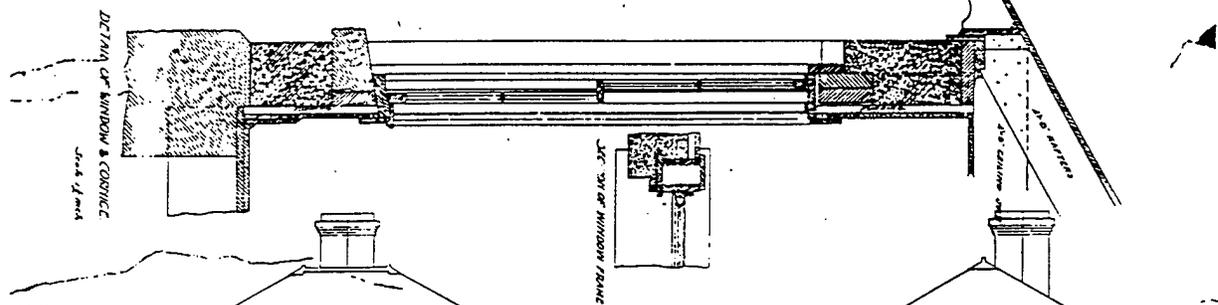
HORIZONTAL SECTION OF DOOR FRAME



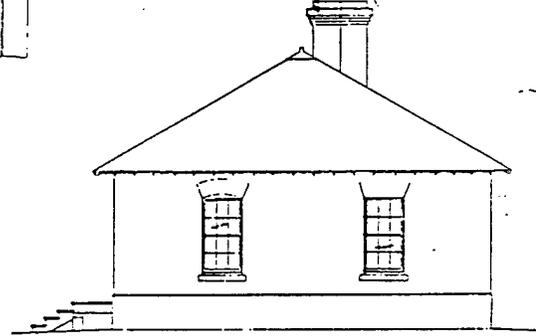
SECTION OF DOOR FRAME
Scale 1/2" = 1'-0"



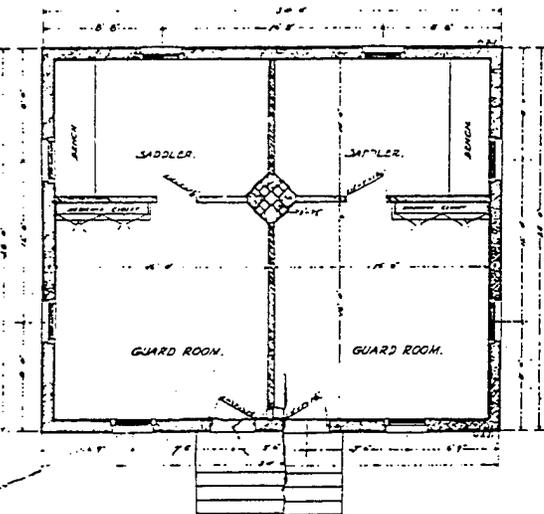
SECTION THROUGH DOOR
Scale 1/2" = 1'-0"



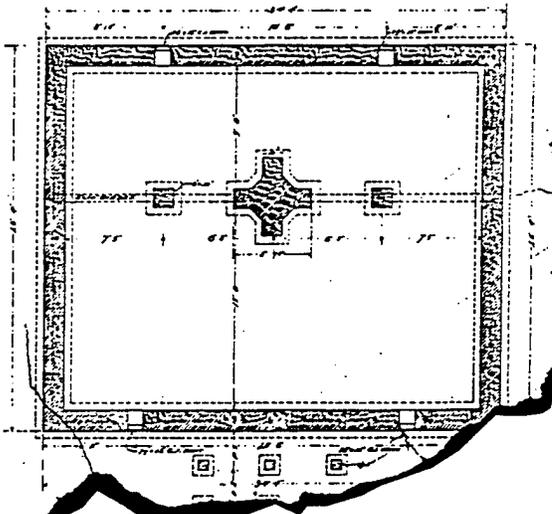
FRONT ELEVATION
Scale 1/2" = 1'-0"



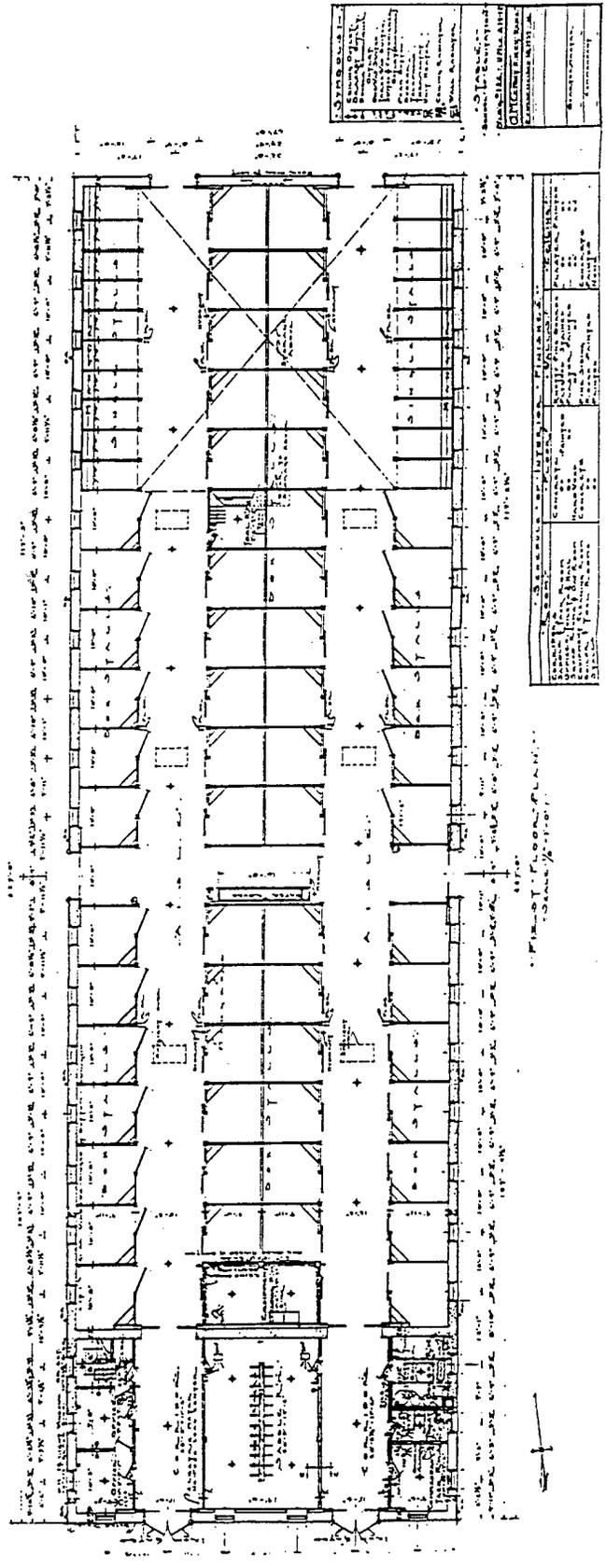
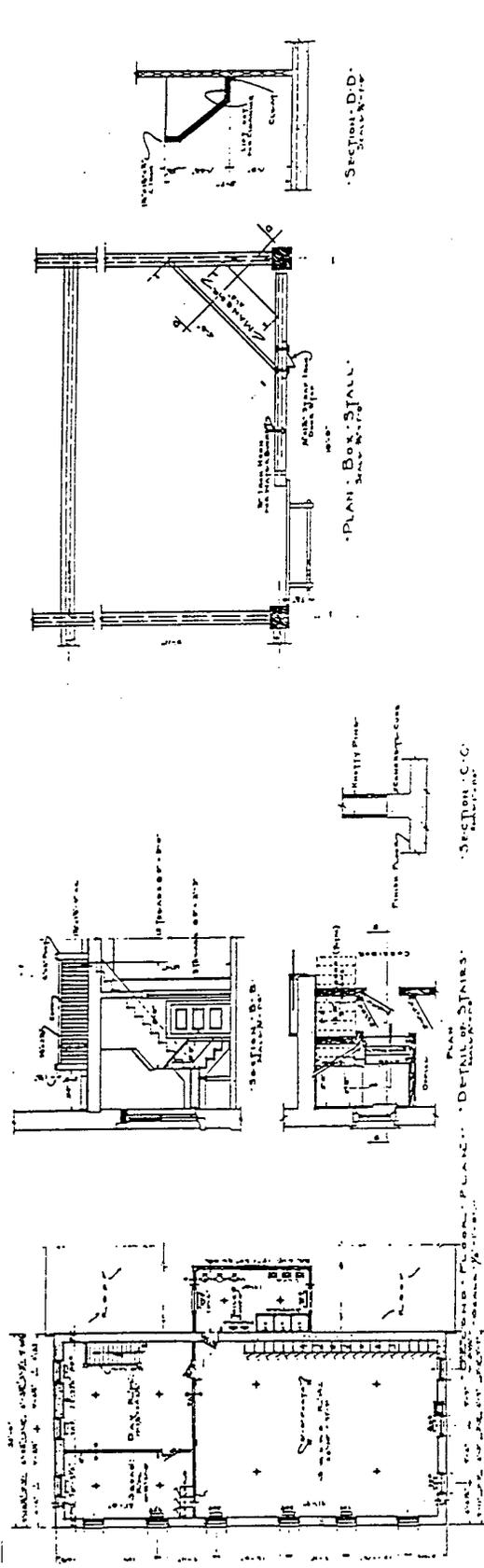
SIDE ELEVATION
Scale 1/2" = 1'-0"



FIRST FLOOR PLAN
Scale 1/2" = 1'-0"

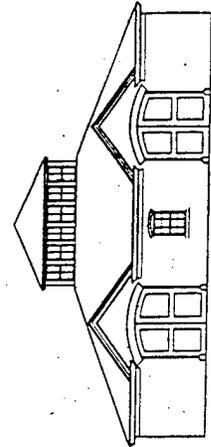


STABLE GUARD HOUSE
39 C
94 60
1888

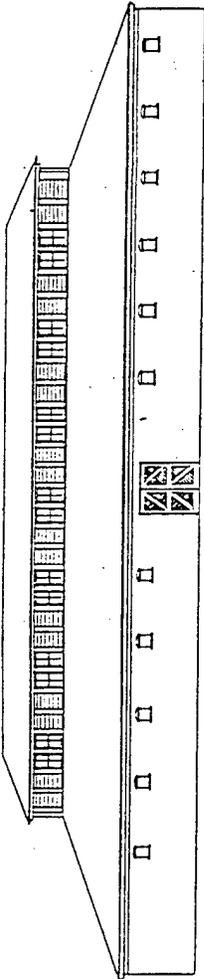


| SCHEDULE | |
|----------|------------|
| 1 | WOOD |
| 2 | IRON |
| 3 | STEEL |
| 4 | CEMENT |
| 5 | GLASS |
| 6 | PAINT |
| 7 | PLASTER |
| 8 | ROOFING |
| 9 | MECHANICAL |
| 10 | ELECTRICAL |
| 11 | HEATING |
| 12 | Cooling |
| 13 | Sanitary |
| 14 | Structural |
| 15 | Other |

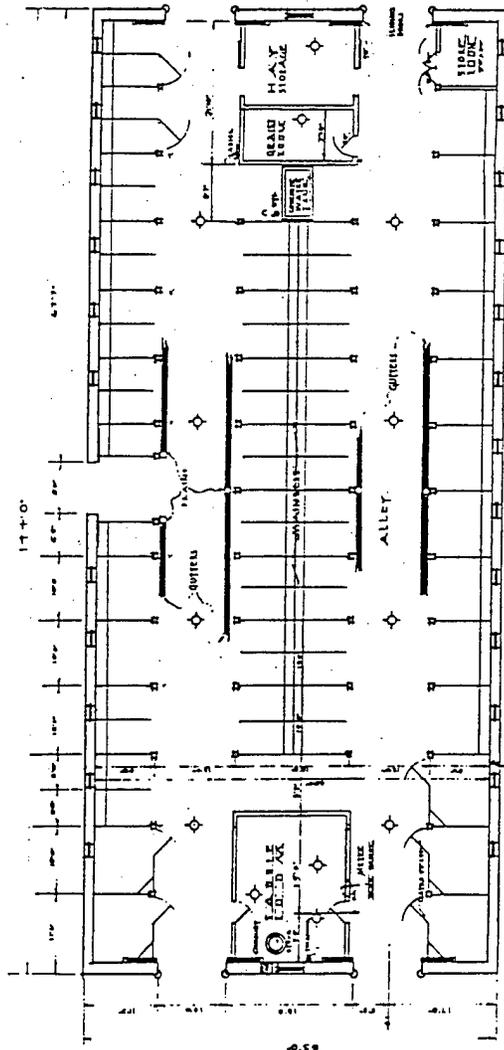
| SCHEDULE | |
|----------|------------|
| 1 | WOOD |
| 2 | IRON |
| 3 | STEEL |
| 4 | CEMENT |
| 5 | GLASS |
| 6 | PAINT |
| 7 | PLASTER |
| 8 | ROOFING |
| 9 | MECHANICAL |
| 10 | ELECTRICAL |
| 11 | HEATING |
| 12 | Cooling |
| 13 | Sanitary |
| 14 | Structural |
| 15 | Other |



FRONT ELEVATION
SCALE 1/4" = EQUALS 1'-0"



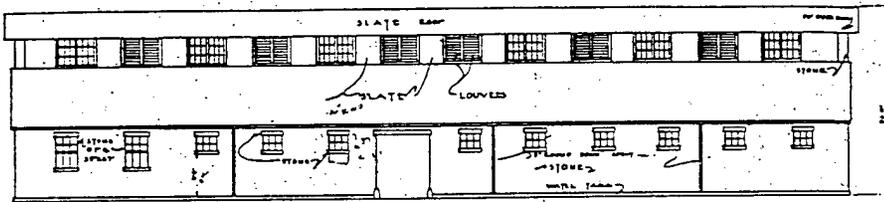
SIDE ELEVATION
SCALE 1/8" = EQUALS 1'-0"



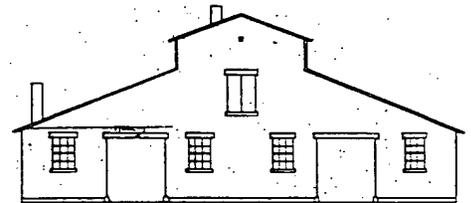
GROUND PLAN
SCALE 1/8" = EQUALS 1'-0"

| |
|--------------------------|
| OWNER: CALS, INC. |
| DESIGNED BY: [Signature] |
| DATE: MAY 1958 |
| SCALE: AS SHOWN |
| PROJECT NO. 277-01 |

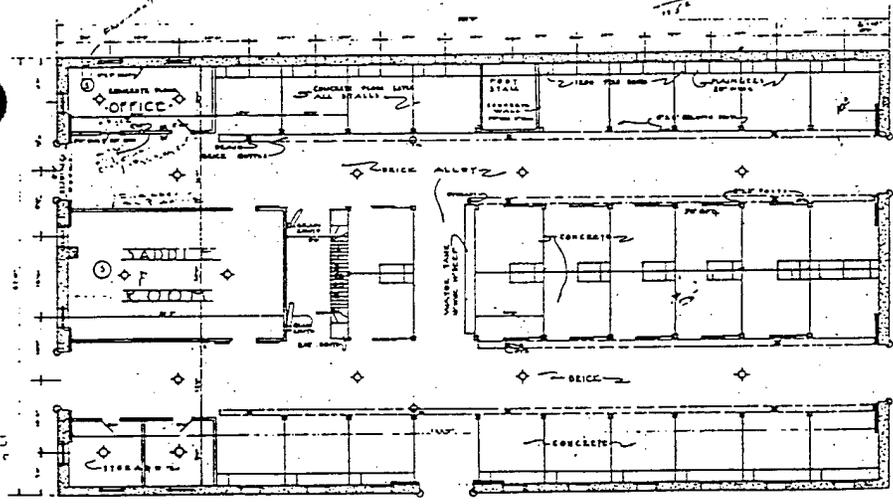
PROJ. 277-01.CIT



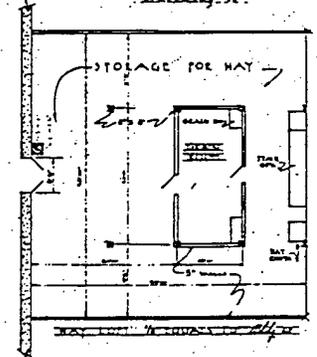
RIGHT SIDE ELEVATION



FRONT ELEVATION

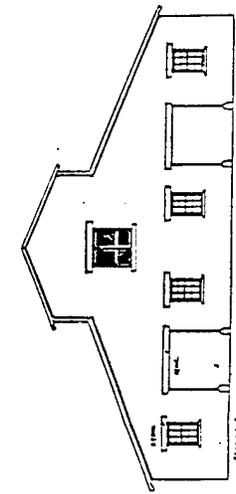


FLOOR PLAN
STABLE Building No. 60

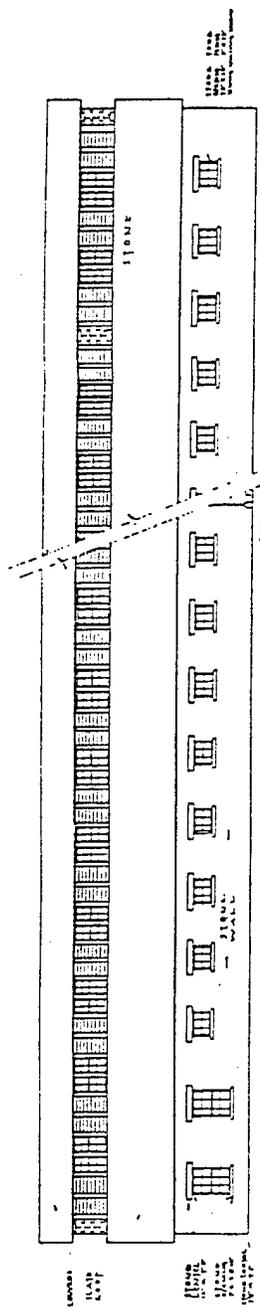


- L. E. G. E. N. D. -

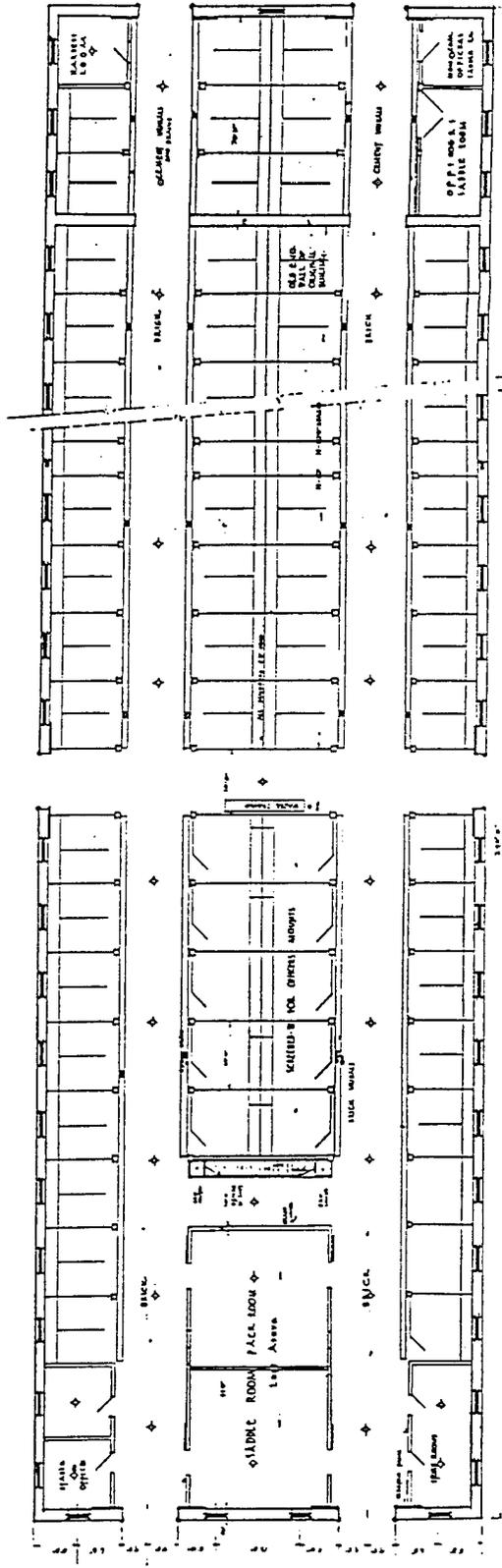
- WALL
- DOOR
- ▭ WINDOW
- ▭ BRICK
- ▭ CONCRETE
- ▽ TRUSS



FRONT ELEVATION
SCALE 1/4" = 1'-0"



RIGHT Side ELEVATION
SCALE 1/4" = 1'-0"



GROUND PLAN
BUILDING No. 116 SCALE 1/8" = 1'-0"

8A

| | |
|------------------------------|--------------|
| NUMBER AND SIZE OF SHEETS | ONE |
| DATE | 1958 |
| DESIGNED BY | W. H. HARRIS |
| CHECKED BY | W. H. HARRIS |
| APPROVED BY | W. H. HARRIS |

Category: TRANSPORTATION

Type 10 c-1: Vehicle-Related: Gas Stations

Description:

Gas stations first were constructed at military installations during the 1930s. The gas stations resembled small, civilian service stations of the same era. The typical gas station consisted of a small, one-story building with several gasoline pumps in front of the building. In some examples, a roof extended from the building over the pumps. Gas stations often were designed to match the prevailing architectural style of the installation, such as the Spanish Colonial Revival or the Georgian Colonial Revival. Gas stations constructed during the 1930s sometimes display the elements of the streamlined Moderne architectural style. Installations typically had only one gas station, usually located in a convenient, yet unobtrusive site.

Evolution:

Gas stations were constructed as minor support facilities during the wave of new construction of the late 1920s and 1930s when the Army modernized many of its posts and airfields. Gas stations of the inter-war period retain the same general appearance and do not display any major evolution in design. Most surviving examples of the early gas stations were constructed during the late 1930s; earlier examples may have been demolished to make way for more modern facilities. The small gas stations generally had only a few pumps and were designed to complement the design of the other buildings of the cantonment, particularly at installations built during the inter-war period. Post World War II gas stations are much larger than the pre-war facilities.

Association:

Gas stations are associated with the development of automobiles as a major mode of transportation. They were constructed at military installations during the inter-war period, when the military began to provide many of the same services found in cities to installation residents. Pre-1940 gas stations are typically found at military installations with large resident populations. Gas stations are minor building types that do not possess individual historic significance. However, they can be contributing elements to an historic district if the design of the gas station reflects the overall architectural character of the individual installation.

Integrity:

To possess integrity, gas stations should retain their location and most of their setting, design, workmanship, and materials from their periods of construction. Most gas stations constructed before 1940 are no longer used as gas stations, or have been altered so that their original design is unrecognizable. Where subsequent additions or renovations have occurred, the building still may have integrity if it retains the majority of its character-defining features, such as the basic shape of the building, projecting roof bay, exterior materials, pattern of openings, and design features that define its original architectural expression, such as revival or Moderne stylistic references.



1939 Gasoline Station at Fort Lewis, WA

Category: TRANSPORTATION

Type 10 c-2: Vehicle-Related: Motor Pools

Description:

The military, particularly the Army, began to construct facilities for motorized vehicles during the early twentieth century, when motorized vehicles began to replace trains and horses. Two types of motorized vehicle facilities were built: (1) motor pools to service and repair motorized vehicles that were used for logistical support and supply; and (2) separate facilities for tactical motorized vehicles. Garage and repair facilities were one-story, rectangular, masonry buildings with wide bands of industrial sash windows and parapeted gable ends; they resembled smaller versions of early 1930s gabled hangars. In some cases, larger motor pool facilities were constructed by joining several units of the basic building form. Motor pool facilities for tactical vehicles were larger than general motor pool facilities and typically consisted of buildings with one-story central portions flanked by block ends. Garage door bays lined the long sides of the center portion of the buildings. Motor pool facilities generally were located apart from the main cantonment area in a secondary service area.

Evolution:

The Army first used motorized vehicles in 1899; however, motorized transport did not prove itself until Pershing's expedition into Mexico in 1916 against Pancho Villa. Within three months of the expedition's start, the Army had 588 trucks, 57 motor tanks, 10 motor machine shop trucks, 6 wreckers, 75 automobiles, and 61 motorcycles.¹⁴

The Quartermaster Corps began to construct distinct motor pool areas, in the same way that earlier quartermasters had designed separate stable complexes. Motor pools of garages, storage facilities, and repair shops were located in a complex apart from the living and administrative areas of the post. The Quartermaster Corps may have based the designs for early motor pool buildings on stable designs; some early motor pool buildings have the monitor roof and shaped gable ends of some stable designs.

The typical motorized vehicle garage appears to have evolved from nineteenth-century vehicle storage sheds and gun sheds. Between the 1890s and 1917, the Quartermaster issued a series of standardized plans for sheds to store wagons and field artillery pieces. The typical vehicle shed was a horizontal, one-story building with wide, paired doors along the side elevation. Eventually, steel rolling doors on overhead tracks replaced the paired doors.¹⁵

Maintenance and repair shops for motorized vehicles generally were brick utilitarian structures with industrial sash windows. Most were constructed as part of the wave of new post construction and improvement during the 1930s. The Quartermaster Corps developed shop

¹⁴ Norman M. Cary, *The Use of the Motor Vehicle in the United States Army, 1899-1939*, Ph.D. diss., University of Georgia, 1980, 95-105.

¹⁵ NARA, Cartographic Branch, RG 77, Standard Plans of Army Post Buildings, 1891 - 1918, Plans 335, 396.

buildings as multiple-use building types. The same basic building design was constructed as utility buildings, general maintenance and repair shops, Army Air Corps shops, and general storehouse functions, in addition to its construction as maintenance and repair garages.

Specialized repair and maintenance facilities were developed to service tactical motorized vehicles, such as the early tanks developed for the mechanized cavalry. These facilities, which resembled the artillery stables also constructed during the 1930s, consisted of masonry, one-story, rectangular buildings flanked by blocks at the end elevations and with garage bay doors lining the side elevations. An important feature that distinguishes this building type from stables are the large expanses of industrial windows that provided interior light to aid repair work.

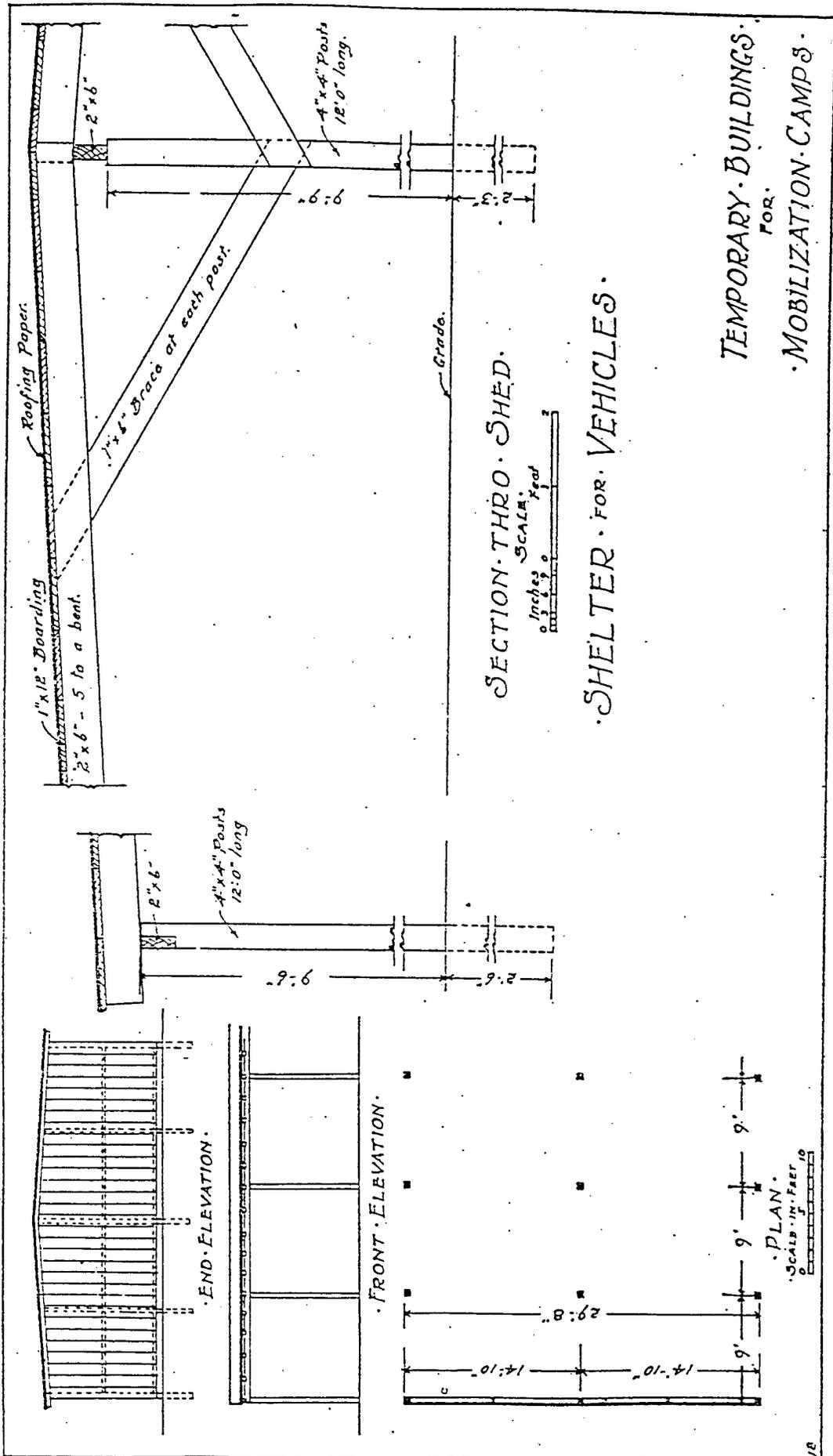
Some arsenals have vehicle repair shops that vary from the typical pattern. The technical branches often developed their own building plans instead of relying on Quartermaster plans. For example, the vehicle repair shop at Picatinny Arsenal, New Jersey, is a two-story, concrete structure with industrial, steel-sash windows; it resembles industrial designs for automotive shops and factories of the 1920s and 1930s.

Association:

Motor pools are associated with the adoption of mechanized vehicles for logistical support and as a tactical weapon during the inter-war period. These facilities are related to the themes of technology and transportation. Motorized vehicle facilities generally are utilitarian structures located in the support areas of an installation. They generally do not possess individual historic significance, but may be contributing elements to an historic district and can reflect, in a utilitarian fashion, the overall architectural character of an installation.

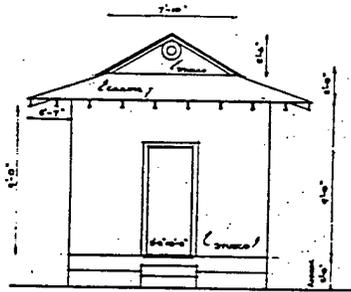
Integrity:

To possess integrity, motorized vehicle facilities should retain their location and most of their design, materials, setting, workmanship, and association from the period of significance of the historic district. Motor pool facilities often continue to serve as maintenance, repair, and storage facilities for military vehicles, or, at some installations, have been converted into storage or other utility shops. The size and location of openings may have changed; doors and windows often have been replaced. Where subsequent additions or renovations have occurred, the building may have integrity if it retains the majority of its character-defining features, including exterior construction materials, garage openings, metal sash windows, and relationship to associated buildings within the installation plan.

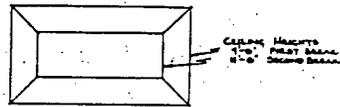


SHELTER FOR VEHICLES

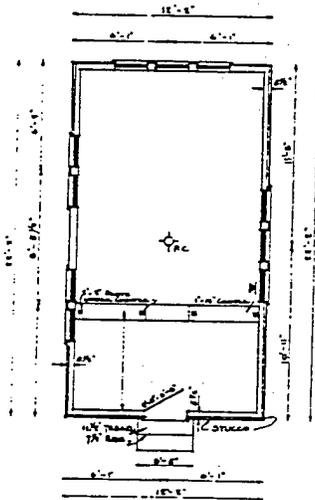
TEMPORARY BUILDINGS
FOR
MOBILIZATION CAMPS



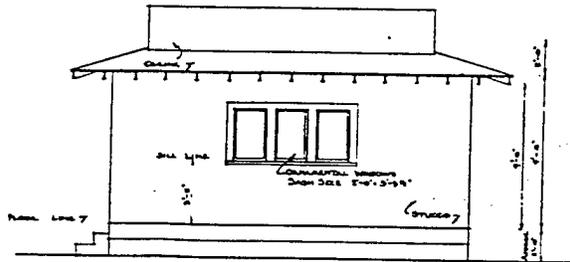
FRONT ELEVATION
SCALE 1/4" = 1'-0"



CEILING PLAN
SCALE 1/4" = 1'-0"



FLOOR PLAN
SCALE 1/4" = 1'-0"



SIDE ELEVATION
SCALE 1/4" = 1'-0"

DISPATCHER'S OFFICE
MOTOR TRANSPORT
GARAGE

| | |
|-----------------------------|---------------|
| BLDG. #19-A | UNITS A 19-A |
| PLANNING SECTION | |
| OFFICE OF THE QUARTERMASTER | |
| DESIGNED BY | JULY, 1959 |
| FOR | ENGINEER |
| NAME, Q.M.C. | QUARTERMASTER |
| DR. GEN. H. A. | COMMANDANT |

MIDDLEBURY

333 002 HO 333.01.cit

Category: TRANSPORTATION

Type 10 d: Railroad-Related

Description:

The Army has been associated with planning and use of railroad facilities since their development in this country. A vital part of orchestrating the Army's logistics, the railroads have played an essential part in preparing to fight the nation's wars in the late nineteenth- and early twentieth centuries. Railroad facilities are still found at present day installations. Often disused, these facilities retain their historic significance and should be evaluated within the period of their historic design and use. An important consideration is the role railroads played in the development of circulation patterns and how those patterns are still used. Individual properties include spur lines, locomotive sheds, roundhouses, terminals, bridges and trestles.

Evolution:

The U.S. Army Corps of Engineers, as early as 1828, added surveys for railroads to their role mandated by the General Survey Act, passed by Congress in 1824. This act authorized the President "to cause the necessary surveys, plans, and estimates, to be made of the routes of such Roads and Canals as he may deem of national importance..." By the late 1830s, Congress felt federal assistance to railroads had gone far enough and the Corps went on to other work.¹

In the 1850s, the Army conducted surveys for transcontinental railroad routes, culminating in "the first four railroad lines after the Civil War."² Once established, the railroads and its workers profited from protection afforded by nearby Army posts. The Army benefited from cheap transportation that moved troops and supplies faster than wagons or barges. An increasingly complex Union Army evolved to fight the Civil War which required the ability to move large numbers of troops, supplies and equipment. The railroads furnished industry with raw materials and took finished products to depots. By 1862, the War Department was committed to using the railroads.

After the Civil War, the Army was again faced with high freight costs of supplying posts scattered across the American west. As the railroads extended their routes and developed their infrastructure, the Army brought together its small posts and started building permanent posts closer to the railroads. This logistical challenge was intensified during the Spanish American War when Army supplies bound for Cuba and shipped by railroad to Tampa flooded the port's capacity and "filled the sidings from Tampa to Columbia, South Carolina"³

In the later parts of the nineteenth- and the first decades of the twentieth centuries, the Army's needs increased yet again for reliable, low cost transportation. In World War I, the Army's size grew to over four million men. The Army's responsibilities also acquired an international

dimension: great numbers of troops, supplies, equipment and materials had to be moved about the country to ports of embarkation. Industry also needed access to railroad facilities to transport raw materials and finished goods for the Army and the Allies needs. Adding to the complexity, the country's requirements for select civilian shipping also had to be met.

Sites for permanent cantonments were selected in part because of accessibility to railroad lines. Where they were not immediately available, spur lines were built with the cantonments. Within these military settlements were railroad lines to move men, animals, guns, food, clothing and anything else the Army might need to ports of embarkation. Warehouses were built on either side of the spur lines for efficient loading and unloading, coal trestles were built to dump supplies of coal in a central location, hospitals had their own railroad spur lines for patients, the railroad spurs even extended to the stables and corrals of the cantonments. As a form of transportation, the railroads were considerably more advanced than wagons, and were developed in the brief span of years before the national highway system spread across the nation. During their time they were the leading edge of transportation technology.

Association:

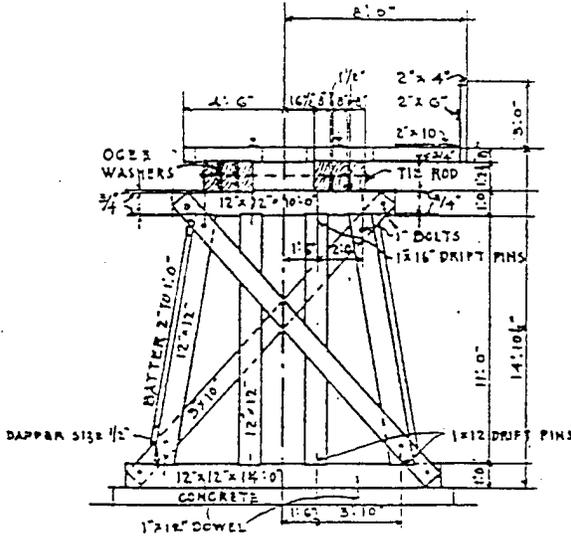
The U.S. Army has contributed, with its sister services, to the development of America's railroad transportation system. The Army has also benefited from this association with lower transportation costs, the tactical ability to respond quickly to emergencies and use the railroads to move large quantities of troops and equipment at short notice. Development of the railroads was made possible, in part, by U.S. Army surveys. The railroad industry was nurtured by Army protection, and financially supported-in part-by movements of Army freight to nearby posts. Maintenance of the nation's standing Army and it's logistical needs has spurred scientific and technical improvements for the railroads. The hard-earned lessons of logistics, developed in the Spanish American War and in World War I, allowed the Army to mobilize for international wars and opened the way for international commerce to learn the lessons of efficient, low cost shipping.

Integrity:

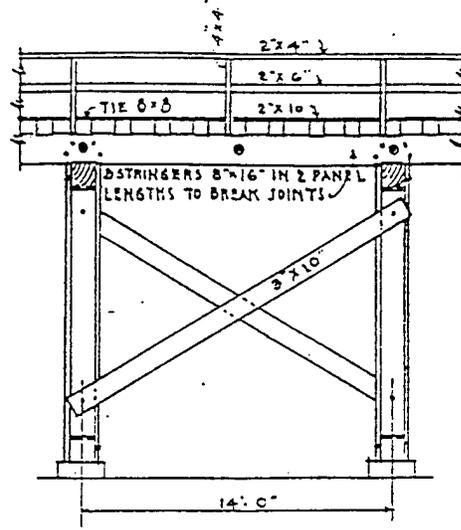
Properly considered a subtype of transportation, railroad related properties are increasingly rare on Army property because many railroad lines have been removed or so modified as to compromise their historic integrity. However, railroad property types still exist within Army bases and may be identified if the physical characteristics and associative qualities are recognized. The associative value of railroad related features identified at former Quartermaster depots is likely to be much greater than similar features identified at former Army Air Corps bases.

Individual properties include spur lines, locomotive sheds, roundhouses, terminals, bridges and trestles. An evaluation of their physical integrity is the first step toward determining if individual properties have historic significance. It is also important to remember that railroad-related properties may also be significant as a group. In this case deteriorated properties may retain integrity as a significant and distinguishable entity whose components lack individual distinction.

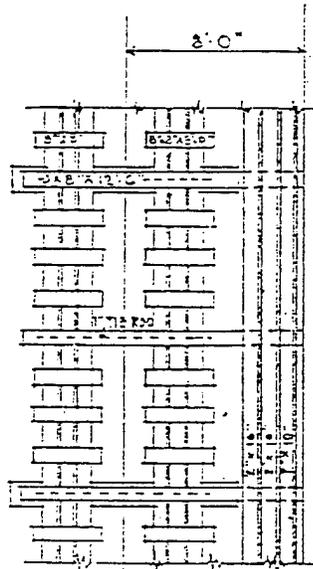
For example, a coal trestle and roadbed leading to the trestle may be historically significant, even if the rails and ties have been removed. Railroad properties may also retain their historic integrity, even with major modifications, as contributing elements in an historic district as supporting buildings related to an industrial or storage complex. Few railroad related facilities retain their original use although warehouses built adjacent to railroad lines are a possible exception as they often are still used as storage facilities.



ELEVATION OF BENT



SIDE ELEVATION



PLAN

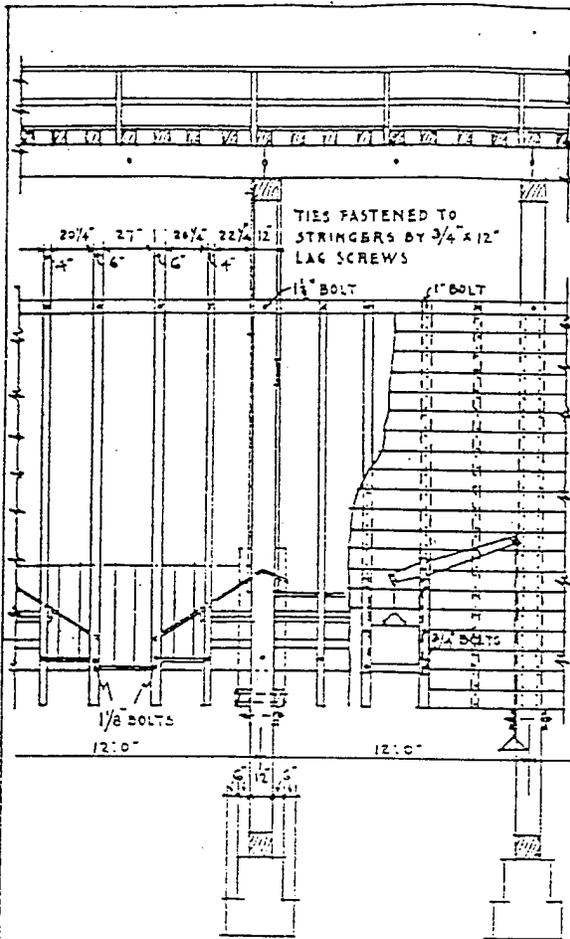
NOTES

- POSTS SIZED OR DAPPED INTO GAPS AND SILLS.
- TIES FASTENED TO STRINGERS WITH 3/4x12 LAG SCREWS.
- STRINGERS FASTENED TO GAPS WITH 3/4x22 DRIFT PINS
- EVERY 3RD SPAN BRACED LONGITUDINALLY.
- USE 5-8x16 STRINGERS UNDER EACH RAIL
- FOR 12'0" OR 14'0" SPANS

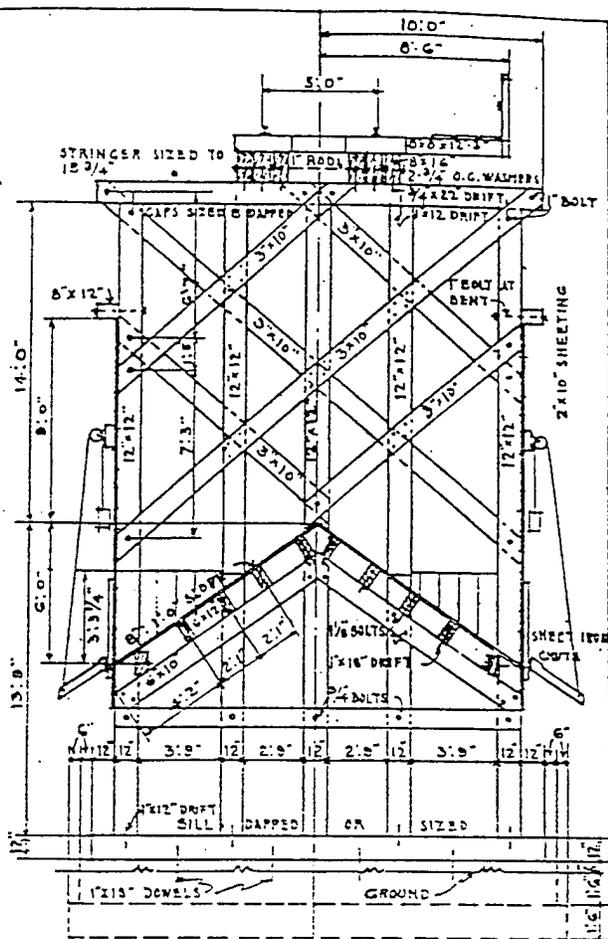
RR-2

FOR DETAILS SEE DRAWING 617-24

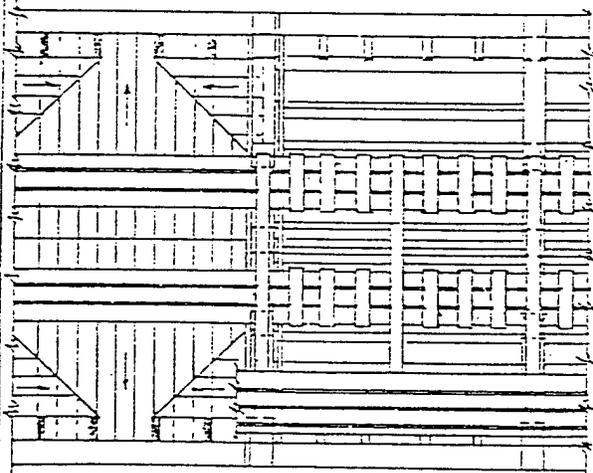
CONSTRUCTION DIVISION OF THE ARMY
STANDARD RAILWAY COAL TRESTLE



SIDE ELEVATION



SECTION & ELEVATION



PLAN

CAPACITY :- 5.6 TONS PER. FT.
 USE OGEE WASHERS FOR ALL BOLTS

RR-3

FOR DETAILS SEE DRAWING 617-25

CONSTRUCTION DIVISION OF THE ARMY
 STANDARD TIMBER COAL POCKET
 RAILROAD PLAN

¹ Forest G. Hill, *Roads, Rails, & Waterways: The Army Engineers and Early Transportation* (Norman: University of Oklahoma, 1957), 44-131.

² Goodwin, R. Christopher and Associates, *National Historic Context for Department of Defense Installations, 1790-1940; Volume I* (Baltimore, MD: United States Army Corps of Engineers, 1995), 248.

³ Russell F. Weigley, *History of the United States Army* (Bloomington: Indiana University Press, 1984), 300-302.

Context Study of the United States Quartermaster General Standard Plans

DATABASE LISTING

Introduction

The following tables present a list of all the buildings in this study, sorted in a tabular database. This provides a means for locating a particular category or type of building. The buildings have been sorted by five defining characteristics (fields), each represented by a column in the database table:

- 1) BUILDING TYPE
- 2) STANDARD PLAN DRAWING NUMBER
- 3) INSTALLATION
- 4) BUILDING NAME
- 5) DATE

“Manual Cnstr Div” entries, under the Installation column, indicate that the building was identified from tables or drawings in the *Manual of the Construction Division of the Army* rather than from working plans from a specific installation. These tables immediately follow this introduction.

There are two additional fields in the database: “Date” and “Drwng”. The entries under the “Date” column were taken from the drawings or tables referred to in the drawings and are the dates upon which the drawing(s) were approved.

The entries under the column labeled “Drwng” designate whether a drawing for the building is included in the study. An “X” in the column means that a drawing was included. When a building is identified but no drawing is included, it means 1) that the building name, date, and number were located on one of the tables from the Construction Division Manual noted above, but no drawing was found, or 2) the building name, date, and number were supplied by information from an installation, but no drawing was included.

The ten different building types identified are those as defined for this study. The building name, drawing number, and date have been taken from the original drawings of the building, from the Construction Division Manual tables, or from information supplied by the installation where the building is located.

All Quartermaster Corps standard building plan numbers were taken either from drawings, from tables in the Quartermaster Corps Manuals, or from surveys and real estate data sheets provided by installations. Most Quartermaster Corps standard plans are numeric, some carry a letter designator, for example: 610-232 or 122-B. The Quartermaster Corps also constructed buildings to the specifications of the Surgeon General’s Office, these plans are identified by an “SGO-“

prefix. Two standard building plan types, shown in **Table 1**, were assigned prefixes because no standard plan number appeared on drawings in these categories.

TABLE 1: NEW PREFIXES FOR STANDARDIZED PLANS

| Standardized Plan Number Prefix | Designation of Plans With this Prefix |
|------------------------------------|--|
| LA- | Landscape Architecture |
| RR- | Railroad Related Property |

By using the enclosed database tables, personnel can identify and compare the buildings at their own installations with those in this study to determine whether they may be part of the Quartermaster Standard Plans system. The information presented in the introduction to each building type can be then used to help determine the history, status, and context of each building. This allows personnel to better define the historical development of their installations and identify those buildings which may be valuable historic resources worthy of special attention or treatment.

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|-------------------------------------|------|------------------|-------|---------------|
| 1 a | Fire Station | 1909 | F.E. Warren AFB | | 98-E |
| 1 a | Fire Station | 1909 | F.E. Warren AFB | | 98-G |
| 1 a | Fire Station | 1916 | Fort Chaffee | | 800-800 |
| 1 a | Fire Station, 24'x77' | 1918 | Manual Cnstr Div | | 620-341 |
| 1 a | Fire Station, 31'x88' | 1918 | Manual Cnstr Div | | 620-365 |
| 1 a | Fire Station, 31'x88' | 1918 | Manual Cnstr Div | | 620-441 |
| 1 a | Fire Station, 31'x103 | 1918 | Manual Cnstr Div | | 620-447 |
| | | | | | |
| 1 b | Guard House | 1911 | F.E. Warren AFB | | 206 |
| 1 b | Post Guard House | 1901 | F.E. Warren AFB | | 30-C |
| 1 b | Unit Guardhouse | 1916 | Fort Chaffee | | 700-260 |
| 1 b | Unit Guardhouse | 1916 | Fort Chaffee | | 700-260.1 |
| 1 b | Guard House, 60x85 | 1891 | Fort McPherson | | 9 |
| 1 b | Artillery Guard House | 1908 | Fort Riley, KS | X | A-13-9 |
| 1 b | Cavalry Stable Guard Building | 1896 | Fort Riley, KS | X | George Ruhlen |
| 1 b | Guard house, Regimental 20'x56' | 1918 | Manual Cnstr Div | | 620-331 |
| 1 b | Guard House, Type 1, 20x56 | 1918 | Manual Cnstr Div | | 652-214 |
| 1 b | Guard House, Mobilization Camps | 1916 | Manual for QMC | X | 16-11 |
| | | | | | |
| 1 c | Post Headquarters | 1909 | F.E. Warren AFB | | 1-729 S.P.S. |
| 1 c | Administration Building | 1911 | F.E. Warren AFB | | 112-F |
| 1 c | Admin Building (Artillery) | 1911 | F.E. Warren AFB | | 122-F |
| 1 c | Fld. Office | 1916 | Fort Chaffee | | 7093-451 |
| 1 c | Administration Bldg. (Hosp.) | 1916 | Fort Chaffee | | 800-1417 |
| 1 c | Administration Bldg. | 1916 | Fort Chaffee | | 800-204 |
| 1 c | Sta. HQ. Office | 1916 | Fort Chaffee | | 800-214 |
| 1 c | Sm Finance. Bldg. | 1916 | Fort Chaffee | | 800-219 |
| 1 c | Med. Detachment Admin. Bldg. | 1916 | Fort Chaffee | | 800-A101210 |
| 1 c | Admin Bldg? No Title | N.D. | Fort Riley, KS | X | 6139-307 |
| 1 c | Administration Building | N.D. | Fort Riley, KS | | Geo. E. Pond |
| 1 c | Proposed Administration Building | N.D. | Fort Riley, KS | | Geo. E. Pond |
| 1 c | Admin. Building, 20' x 84' | 1918 | Manual Cnstr Div | | 620-327 |
| 1 c | Administration Building, 20'x49' | 1918 | Manual Cnstr Div | | 620-356 |
| 1 c | Welfare Bldg, 84x96 | 1918 | Manual Cnstr Div | | 6399-120 |
| 1 c | Admin Building, Mobilization Camps | 1916 | Manual for QMC | X | 16-10 |
| 1 c | Operations Building | 1940 | Marshall Field | | 613-9365 |
| 1 c | Operations Building | 1940 | Marshall Field, | | 6139-366 |
| | | | | | |
| 1 d | Post & Telegraph Office | 1907 | F.E. Warren AFB | | 177 |
| 1 d | Post Office | 1916 | Fort Chaffee | | 800-217 |
| 1 d | Post Office, Type PO-1 | 1937 | Fort Riley, KS | X | 700-298 |
| 1 d | Post Office Building, 32x51 | 1918 | Manual Cnstr Div | | 620-374 |
| | | | | | |
| 2 a | Radio Range Bldg. | 1916 | Fort Chaffee | | 800-905 |
| | | | | | |
| 2 b | Tel. & Tel Bldg. | 1916 | Fort Chaffee | | 800-907 |
| 2 b | Tel. & Teleg. Bldg, 20x70 | 1918 | Manual Cnstr Div | | 620-328 |
| 2 b | Telegraph office & Quarters, 20x110 | 1918 | Manual Cnstr Div | | 620-418 |
| | | | | | |
| 3 a | Academic Building | 1938 | Fort Riley, KS | X | 6139-310 |
| 3 a | Gas Instruction, 16x30 | 1918 | Manual Cnstr Div | | 6143-2 |
| 3 a | Classroom Building, 30' x 60' | 1918 | Manual Cnstr Div | | 620-450 |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|-------------------------------------|------|------------------|-------|-----------------|
| 3 a | Classroom Building, 49'x150 | 1918 | Manual Cnstr Div | | 620-469 & 470 |
| 3 a | Classroom Building, 30'x60' | 1918 | Manual Cnstr Div | | 620-507 |
| | | | | | |
| 3 b | Cavalry Drill Hall | 1907 | F.E. Warren AFB | | 97-A |
| | | | | | |
| 4 a | Dispensary (Cavalry) | 1909 | F.E. Warren AFB | | 247 |
| 4 a | Dental Clinic | 1916 | Fort Chaffee | | 700-467 |
| 4 a | Clinic | 1916 | Fort Chaffee | | 700-476 |
| 4 a | Clinic | 1916 | Fort Chaffee | | 700-484 |
| 4 a | Infirmary | 1916 | Fort Chaffee | | 800-1429 |
| 4 a | Dental Clinic | 1916 | Fort Chaffee | | 800-1445 |
| 4 a | Clinic | 1916 | Fort Chaffee | | 800-1513 |
| 4 a | Dental Clnc & Cont. Ward, 34x130 | 1939 | Fort McPherson | | 6217-65, 74, 76 |
| 4 a | Infirmary - Large | 1940 | Fort Riley, KS | | 700-279 |
| 4 a | Dispensary | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 4 a | Infirmary - Medical, 30'x63' | 1918 | Manual Cnstr Div | | 620-302 |
| 4 a | Infirmary & Dental Ops Bldg. 30'x88 | 1918 | Manual Cnstr Div | | 620-307 & 308 |
| 4 a | Infirm./Dntl Dorm Bldg, 30'x88' | 1918 | Manual Cnstr Div | | 620-310 & 311 |
| 4 a | Infirmary - Medical, Addition, 24'x | 1918 | Manual Cnstr Div | | 620-333 |
| 4 a | Infirmary - Medical, 30'x77' | 1918 | Manual Cnstr Div | | 620-368 to 375 |
| 4 a | Infirmary - Medical, 30'x105' | 1918 | Manual Cnstr Div | | 620-382 |
| 4 a | Infirmary - Medical, 30'x112' | 1918 | Manual Cnstr Div | | 620-383 & 384 |
| 4 a | Infirmary - Medical, 30'x98' | 1918 | Manual Cnstr Div | | 620-392 & 393 |
| 4 a | Infirmary - Medical, 30'x56' | 1918 | Manual Cnstr Div | | 620-449 |
| 4 a | Delousing Plant, 48x84 | 1918 | Manual Cnstr Div | | 632-551 |
| 4 a | Delousing Plant, 60x204 | 1918 | Manual Cnstr Div | | 632-552 |
| 4 a | Recruit Exam. Bldg / Shop | 1918 | Manual Cnstr Div | X | SB 19 |
| 4 a | Delousing Plant, 54x120 | 1918 | Manual Cnstr Div | X | SB 21 |
| | | | | | |
| 4 b | Physiotherapy | 1916 | Fort Chaffee | | 700-348 |
| 4 b | X-Ray Building | 1916 | Fort Chaffee | | 700-462 |
| 4 b | Ward Combination | 1916 | Fort Chaffee | | 700-463 |
| 4 b | Recreation Bldg. Patients | 1916 | Fort Chaffee | | 700-520 |
| 4 b | Morgue | 1916 | Fort Chaffee | | 800-1454 |
| 4 b | Detention Ward | 1916 | Fort Chaffee | | 800-1424 |
| 4 b | Detention Hut, 20'x20' | 1918 | Manual Cnstr Div | | 620-326 |
| 4 b | Garage for Ambulances, 22'x47' | 1918 | Manual Cnstr Div | | 620-496 |
| 4 b | Hospital Typ Kitchen Layouts | 1918 | Manual Cnstr Div | X | SB 14 |
| 4 b | Layout: Hospital | 1918 | Manual Cnstr Div | X | SGO-A |
| 4 b | Layout: Head House | 1918 | Manual Cnstr Div | X | SGO-A1 |
| 4 b | Typical Hosp Admin Bldg | 1918 | Manual Cnstr Div | X | SGO-B |
| 4 b | Typical Hosp Laboratory Bldg | 1918 | Manual Cnstr Div | X | SGO-F |
| 4 b | Typical Hosp Operating Pavillion | 1918 | Manual Cnstr Div | X | SGO-G |
| 4 b | Typical Hosp General Mess & Kitchen | 1918 | Manual Cnstr Div | X | SGO-I1 & I32 |
| 4 b | Typical Hosp General Mess & Kitchen | 1918 | Manual Cnstr Div | X | SGO-I28 |
| 4 b | Typical Hosp Receiving Ward | 1918 | Manual Cnstr Div | X | SGO-J |
| 4 b | Typical Hosp Single Wards | 1918 | Manual Cnstr Div | X | SGO-K1 |
| 4 b | Typical Hosp Single Wards | 1918 | Manual Cnstr Div | X | SGO-K34 |
| 4 b | Typical Hosp Single Wards | 1918 | Manual Cnstr Div | X | SGO-K35 |
| 4 b | Typ. Hosp Phys Thrpy & Amusmnt Hall | 1918 | Manual Cnstr Div | X | SGO-S & T |
| 4 b | Hospital, Mobilization Camps | 1916 | Manual for QMC | X | 16-13 |
| 4 b | Ward Building, Mobilization Camps | 1916 | Manual for QMC | X | 16-14 |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|-------------------------------------|------|------------------|-------|---------------|
| 5 a | Artillery Workshop | 1904 | F.E. Warren AFB | | 59-K |
| 5 a | Artillery Shop | 1908 | F.E. Warren AFB | | 59-V |
| 5 a | Ordnance Shop w/crane | 1916 | Fort Chaffee | | 652-419 |
| 5 a | Ordnance Shop Boiler House | 1916 | Fort Chaffee | | 652-423 |
| 5 a | C & E Repair Shop | 1916 | Fort Chaffee | | 800-1000 |
| 5 a | Q.M. Utility Shop | 1916 | Fort Chaffee | | 800-603 |
| 5 a | Shop Building | 1916 | Fort Riley, KS | X | 407 |
| 5 a | Shop - Utilities | 1937 | Fort Riley, KS | X | 700-317 |
| 5 a | Packing & Crating shop | 1938 | Fort Riley, KS | X | A-8-12 |
| 5 a | Battery Workshops | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 5 a | Shop, 20x36 | 1918 | Manual Cnstr Div | | 620-372 |
| 5 a | Shop, Clothing etc 30x102 | 1918 | Manual Cnstr Div | | 620-381 |
| 5 a | Shop, QMaster, 2 bldgs each, 36x106 | 1918 | Manual Cnstr Div | | 620-390 |
| 5 a | Stable Guard , 20x21 | 1918 | Manual Cnstr Div | | 620-395 |
| 5 a | Shop, Cot repair, 40x36 | 1918 | Manual Cnstr Div | | 620-436 |
| 5 a | Shop, Clothing, etc, 60x100 | 1918 | Manual Cnstr Div | | 620-437 |
| 5 a | Shop, Tent Treating, 36x40 | 1918 | Manual Cnstr Div | | 620-439 |
| 5 a | Shop, Tent Repair, 40x60 | 1918 | Manual Cnstr Div | | 620-440 |
| 5 a | Shop, Clothing, etc 28x132, 28x162 | 1918 | Manual Cnstr Div | | 620-467 |
| 5 a | Ordnance Repair Shop 30x106 | 1918 | Manual Cnstr Div | | 620-508 |
| 5 a | Shop, Ordnance Repair, 30x80 | 1918 | Manual Cnstr Div | | 652-19 |
| 5 b | Rendering Plant, 32x48 | 1918 | Manual Cnstr Div | | 620-435 |
| 5 b | Coffee Roasting & Grinding Plant | 1918 | Manual Cnstr Div | | 620-490 & 491 |
| 5 b | Pyrotech Plant Type D, 20x35 | 1918 | Manual Cnstr Div | | 652-152 |
| 5 b | Pyrotech Plant Type 1 & 2, 30x161 | 1918 | Manual Cnstr Div | | 652-157 |
| 5 b | Pyrotech Plant Type J & J1, 20x35 | 1918 | Manual Cnstr Div | | 652-158 |
| 5 b | Refrigerating & Ice Making Plant | 1918 | Manual Cnstr Div | X | SB 28 |
| 5 c1 | Post Bakery | 1903 | F.E. Warren AFB | | 1-1180 |
| 5 c1 | Bakery | 1916 | Fort Chaffee | | 800-682 |
| 5 c1 | Bakery | 1902 | Fort Riley, KS | X | 49H |
| 5 c1 | Bakery, 30'x70' | 1918 | Manual Cnstr Div | | 620-340 |
| 5 c1 | Bakery, 40'x136 & 51'x62' | 1918 | Manual Cnstr Div | | 620-361 & 362 |
| 5 c1 | Bakery, 40'x136' | 1918 | Manual Cnstr Div | | 620-379 |
| 5 c1 | Bakery, 30'x50' | 1918 | Manual Cnstr Div | | 620-428 |
| 5 c1 | Bakery 33'x51' | 1918 | Manual Cnstr Div | | 620-505 |
| 5 c1 | Field Bakery, Mobilization Camps | 1916 | Manual for QMC | X | 16-16 |
| 5 c2 | Laundry | 1911 | F.E. Warren AFB | | 234-B |
| 5 c2 | Laundry | 1911 | F.E. Warren AFB | | 243-B |
| 5 c2 | Laundry | 1916 | Fort Chaffee | | 800-1029 |
| 5 c2 | Laundry Steam Plant | 1916 | Fort Chaffee | | 800-1619 |
| 5 c2 | Typical Dry Cleaning Plant | 1930 | Fort Riley, KS | | 633-165 |
| 5 c2 | Laundry, 72x216, 5-10,000 men | 1918 | Manual Cnstr Div | | 633-130 |
| 5 c2 | Laundry, 36x108, 1-2,000 men | 1918 | Manual Cnstr Div | | 633-140 |
| 5 c2 | Standard Laundry, 10-20,000 men | 1918 | Manual Cnstr Div | | SB 20 |
| 5 d1 | Cavalry Granary | 1909 | F.E. Warren AFB | | 193-A |
| 5 d1 | Q.M. Forage Storehouse | 1908 | F.E. Warren AFB | | 53-A |
| 5 d1 | Coal Shed | 1904 | F.E. Warren AFB | | 67-B |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|-------------------------------------|------|------------------|-------|---------------|
| 5 d1 | Coal Shed | 1909 | F.E. Warren AFB | | 67-J |
| 5 d1 | Cold Storage | 1916 | Fort Chaffee | | 700-1265R |
| 5 d1 | Storehouse | 1916 | Fort Chaffee | | 700-461 |
| 5 d1 | Fld. Office Water Stg. Tank | 1916 | Fort Chaffee | | 7093-454.2 |
| 5 d1 | Rm. & Storage Bays | 1916 | Fort Chaffee | | 800-607 |
| 5 d1 | Salvage Warehouse | 1916 | Fort Chaffee | | 800-652 |
| 5 d1 | Warehouse (Insulated) | 1916 | Fort Chaffee | | 800-654 |
| 5 d1 | Storehouse | 1916 | Fort Chaffee | | 800-663 |
| 5 d1 | Storehouse | 1916 | Fort Chaffee | | 800-664 |
| 5 d1 | Ice Storage | 1916 | Fort Chaffee | | 800-777 |
| 5 d1 | Ordnance Storehouse, 30x50 | 1897 | Fort McPherson | | 103-A |
| 5 d1 | Subsistence Storehouse | 1897 | Fort McPherson | | 106 |
| 5 d1 | Film Vault, size illegible | ? | Fort McPherson | | 6217-127? |
| 5 d1 | Clinic 28 beds, 34x130, 9x30 | 1930 | Fort McPherson | | 6217-36 to 45 |
| 5 d1 | Granary | 1907 | Fort Riley, KS | X | 193 |
| 5 d1 | Cold Storage Bldg | ? | Fort Riley, KS | X | 800-1226 |
| 5 d1 | Commissary Store House | 1905 | Fort Riley, KS | X | A-19-1 |
| 5 d1 | Store House, Regmtl, 20xvar. | 1918 | Manual Cnstr Div | | 620-318 |
| 5 d1 | Warehouse, Clothing, 60x100 | 1918 | Manual Cnstr Div | | 620-385 & 386 |
| 5 d1 | Store House, Salvage, 60x168 | 1918 | Manual Cnstr Div | | 620-412 & 413 |
| 5 d1 | Storage Depot/admin Bldg, 140x160 | 1918 | Manual Cnstr Div | | 6271-7 |
| 5 d1 | Storehouse, General, #1, 161x501 | 1918 | Manual Cnstr Div | | 652-41 |
| 5 d1 | Storehouse, General, #2 | 1918 | Manual Cnstr Div | | 652-74 |
| 5 d1 | Typ Em'gncy Str'g Whse Toilet Rms | 1918 | Manual Cnstr Div | X | SB 10 |
| 5 d1 | Store House, Divisional, 60x168 | 1918 | Manual Cnstr Div | X | SB 16 |
| 5 d1 | Emg'ncy Whse C'prtmt & Group Plan | 1918 | Manual Cnstr Div | X | SB 25 |
| 5 d1 | Typ. Em'gncy Str'g Whse Admin Bldg | 1918 | Manual Cnstr Div | X | SB 26 |
| 5 d1 | Emg'ncy Whse, Open Shed | 1918 | Manual Cnstr Div | X | SB 27 |
| 5 d1 | Store House, Mobilization Camps | 1916 | Manual for QMC | X | 16-12 |
| 5 d1 | Paint Oil & Dope House | 1940 | Marshall Field, | X | 702-118 |
| | | | | | |
| 5 d2 | Light Battery Gun Shed | 1905 | F.E. Warren AFB | | 104 |
| 5 d2 | Light Battery Gun Shed | 1908 | F.E. Warren AFB | | 104-F |
| 5 d2 | Q.M. Store House, Artillery | 1909 | F.E. Warren AFB | | 198 |
| 5 d2 | Artillery Gun Shed | 1909 | F.E. Warren AFB | | 209 |
| 5 d2 | Ammunition Storehouse | 1910 | F.E. Warren AFB | | 262 |
| 5 d2 | Powder Magazine | 1910 | F.E. Warren AFB | | 263 |
| 5 d2 | Magazines igloo type | 1916 | Fort Chaffee | | 642-535 |
| 5 d2 | Magazines igloo type | 1916 | Fort Chaffee | | 652-535 |
| 5 d2 | Armament | 1916 | Fort Chaffee | | 800-210 |
| 5 d2 | Magazine, Post Ordnance | 1934 | Fort Lewis, WA | X | 19-2-70 |
| 5 d2 | Magazine, 12x15, brick | 1893 | Fort McPherson | | 46 |
| 5 d2 | Ordnance Store House | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 5 d2 | Magazine, Black P'wdr, 16x22 | 1918 | Manual Cnstr Div | | 6196-104 |
| 5 d2 | Shed - Wagon or Gun, 29xvar. | 1918 | Manual Cnstr Div | | 620-332 |
| 5 d2 | Magazine, 20'x20' | 1918 | Manual Cnstr Div | | 620-370 |
| 5 d2 | Magazine, 24'x60' | 1918 | Manual Cnstr Div | | 620-371 |
| 5 d2 | Magazine, brick w/corr steel rf, 10 | 1918 | Manual Cnstr Div | | 620-452 |
| 5 d2 | Magazine, Smokeless pwdr, 32x96 | 1918 | Manual Cnstr Div | | 652-146 |
| 5 d2 | Shed, Dock, 60x122 | 1918 | Manual Cnstr Div | | 652-165 |
| 5 d2 | Magazine, Type 13, 26x42 | 1918 | Manual Cnstr Div | | 652-169 |
| 5 d2 | Primer & Fuse house #1, 32x96 | 1918 | Manual Cnstr Div | | 652-173 |

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| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|------------------------------------|------|------------------|-------|----------------|
| 5 d2 | Primer & Fuse house #2, 32x96 | 1918 | Manual Cnstr Div | | 652-174 |
| 5 d2 | Magazine, Type 10, 49x208 | 1918 | Manual Cnstr Div | | 652-179 |
| 5 d2 | Magazine, Type 11, H.E. 26x42 | 1918 | Manual Cnstr Div | | 652-180 |
| 5 d2 | Magazine, Type 12, 26x42 | 1918 | Manual Cnstr Div | | 652-31 |
| 5 d2 | Magazine, Type 1 & Type 2 | 1918 | Manual Cnstr Div | X | SB 23 |
| | | | | | |
| 6 a | Oil House 25x 49' | 1916 | Fort Chaffee | | 700-323 |
| 6 a | Oil Shed | 1916 | Fort Chaffee | | 700-384 |
| 6 a | Heating Plant | 1916 | Fort Chaffee | | 7093-501 |
| 6 a | Station QM Office Boiler Hs. | 1916 | Fort Chaffee | | 800-201 |
| 6 a | Boiler/Pump House | 1905 | Fort McPherson | | 132-H |
| 6 a | Electric Sub Station, 10x12 | 1909 | Fort McPherson | | 4-936 |
| 6 a | Oil house, 20x30 | 1918 | Manual Cnstr Div | | 620-396 |
| 6 a | Boiler Houses | 1918 | Manual Cnstr Div | | 620-492 |
| 6 a | Transformer Sta. Type 1, 20x36 | 1918 | Manual Cnstr Div | | 652-81 |
| 6 a | Elec Distrib Syst, Street Lighting | 1918 | Manual Cnstr Div | X | SB 11 |
| 6 a | Elec Distrib Syst, 2ndary Lines | 1918 | Manual Cnstr Div | X | SB 12 |
| | | | | | |
| 6 b | Utility Office | 1931 | F.E. Warren AFB | | 59-U |
| 6 b | Water Tank (tower) | 1903 | F.E. Warren AFB | | 68-C |
| 6 b | Hose House, 30x50 | 1898 | Fort McPherson | | Post |
| 6 b | Sewage Treat. Plnt, Cntrl Hse | 1942 | Fort Riley, KS | X | 408-204 |
| 6 b | Hose House (Type A & B) 6'x7' | 1918 | Manual Cnstr Div | | 620-445 & 446 |
| | | | | | |
| 6 c | Crematory | 1908 | F.E. Warren AFB | | 1-620-B |
| 6 c | Incinerator - trash only | 1939 | F.E. Warren AFB | | 414-43-228 |
| 6 c | Incinerator | 1916 | Fort Chaffee | | 414/43/330 |
| 6 c | Crematory | 1908 | Fort D.A. Russel | | 1-620-B |
| 6 c | Incinerator | 1938 | Fort Riley, KS | | A-13-1 |
| 6 c | Waste & Transfer Station, 20x130 | 1918 | Manual Cnstr Div | | 620-432 |
| 6 c | Standard Incinerator | 1918 | Manual Cnstr Div | X | SB 8 |
| | | | | | |
| 7 a | Recreational Bldg. | 1916 | Fort Chaffee | | 700-310 |
| 7 a | Nurses Recreation Room | 1916 | Fort Chaffee | | 800-451 |
| 7 a | Med. Detachment Recr. | 1916 | Fort Chaffee | | 800-459 |
| 7 a | Recreation Bldg. | 1916 | Fort Chaffee | | 800-460 |
| 7 a | Post Exchange & Gymnasium | 1906 | Fort Riley, KS | X | 174 |
| 7 a | Post Exchange & Gymnasium | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 7 a | Lecture Hall, 51x77 | 1918 | Manual Cnstr Div | | 608-104 |
| 7 a | Auditorium, 200x300 | 1918 | Manual Cnstr Div | X | SB 24 |
| | | | | | |
| 7 b | Sports Arena | 1916 | Fort Chaffee | | 800-465 |
| 7 b | Gymnasium | 1940 | Fort D.A. Russel | | 6560-145 - 179 |
| | | | | | |
| 7 c | Chapel | 1916 | Fort Chaffee | | 700-1800 |
| | | | | | |
| 7 d | Service Club | 1916 | Fort Chaffee | | 700-1775 |
| 7 d | Officers' Club | 1916 | Fort Chaffee | | 800-809 |
| 7 f | Artillery Exchange | 1910 | F.E. Warren AFB | | 122-B |
| 7 f | Cavalry Post Exchange | 1910 | F.E. Warren AFB | | 122-b |
| 7 f | Post Exchange | 1905 | F.E. Warren AFB | | 158 |

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| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|------------------------------------|------|------------------|-------|-----------------|
| 7 f | Commissary Building | 1910 | F.E. Warren AFB | | 186 |
| 7 f | Exchange | 1916 | Fort Chaffee | | 700-297 |
| 7 f | Post Exchange | 1916 | Fort Chaffee | | 800-1412 |
| 7 f | Post Exchange, 32x91 | 1918 | Manual Cnstr Div | | 620-359 |
| 7 f | Post Exchange, Mobilization Camps | 1916 | Manual for QMC | X | 16-15 |
| 7 g | War Dept Theatre | 1939 | F.E. Warren AFB | | 608-360 to 366 |
| 7 g | Band Stand, Cavalry & Artillery | 1911 | F.E. Warren AFB | | 64-B |
| 7 g | Theatre w/Stage | 1916 | Fort Chaffee | | 700-1212.1 |
| 7 g | War Dept Theater | 1939 | Fort D.A. Russel | | 608-360 - 366 |
| 7 g | War Dept Theatre, 85x49 | 1939 | Fort McPherson | | 6217-105 to 107 |
| 7 g | Theatre, Class a, 120x187 | 1918 | Manual Cnstr Div | | 608-24 |
| 7 g | Theatre, Liberty, Class D | 1918 | Manual Cnstr Div | | 608-31to34&106 |
| 7 g | Liberty Theatre, 60x120 | 1918 | Manual Cnstr Div | | 620-499 & 500 |
| 8 a | Lab Building for Vet Hosp | 1907 | Fort Riley, KS | X | A-14-16 |
| 9 a1 | Nurses Quarters | 1906 | F.E. Warren AFB | | 152-E |
| 9 a1 | Bachelor Officers Quarters | 1908 | F.E. Warren AFB | | 152-G |
| 9 a1 | Bachelor Officers Quarters | 1910 | F.E. Warren AFB | | 152-L |
| 9 a1 | Nurses' Quarters | 1916 | Fort Chaffee | | 700-1240 |
| 9 a1 | Guest House | 1916 | Fort Chaffee | | 700-1290 |
| 9 a1 | BOQ, 33x140, 33x45, 12x33 | 1904 | Fort McPherson | X | 152-B |
| 9 a1 | Nurses Quarters, 13 nurses | 1933 | Fort McPherson | | 707-102 to 107 |
| 9 a1 | B.O.Q | 1902 | Fort Riley, KS | X | 152 |
| 9 a1 | B.O.Q. | N.D. | Fort Riley, KS | X | 188 |
| 9 a1 | Officers Quarters, Lge, Mob. Camps | 1916 | Manual for QMC | X | 16-2 |
| 9 a1 | Officers Quarters, Sml, Mob. Camps | 1916 | Manual for QMC | X | 16-3 |
| 9 a2 | Artillery Barracks | 1904 | F.E. Warren AFB | | 150 |
| 9 a2 | Artillery Barracks | 1908 | F.E. Warren AFB | | 181 |
| 9 a2 | Teamsters Quarters | 1910 | F.E. Warren AFB | | 258 |
| 9 a2 | Hospital Corps Barracks | 1912 | F.E. Warren AFB | | 276 |
| 9 a2 | Q.M. Barracks for M.T. | 1900 | F.E. Warren AFB | | 53-D |
| 9 a2 | Cavalry Band Barracks | 1909 | F.E. Warren AFB | | 61-F |
| 9 a2 | Med Dchmnt Bar (and 6560-140--142) | 1939 | F.E. Warren AFB | | 621-1325--1346 |
| 9 a2 | Detachment Barracks | 1931 | F.E. Warren AFB | | 621-850 & 851 |
| 9 a2 | Medical Detachment Bar | 1939 | F.E. Warren AFB | | 6560-140--142 |
| 9 a2 | Cavalry Barracks | 1910 | F.E. Warren AFB | | 75-M |
| 9 a2 | Med. Detachment Barracks | 1916 | Fort Chaffee | | 700-1204 |
| 9 a2 | Prisoner's Barracks | 1916 | Fort Chaffee | | 800-443 |
| 9 a2 | Hosp Corps Bar. | 1908 | Fort D.A. Russel | | 1-729-S.P.S. |
| 9 a2 | Hospital Corps Barracks | 1912 | Fort D.A. Russel | | 2-76 |
| 9 a2 | Med. Detachment Barracks | 1939 | Fort D.A. Russel | | 6560-140 - 142 |
| 9 a2 | Double barracks, 39x150 | 1904 | Fort McPherson | | 75-G |
| 9 a2 | Band Barracks | 1907 | Fort Riley, KS | X | 61-F |
| 9 a2 | Cavalry Barracks | 1902 | Fort Riley, KS | X | 75 |
| 9 a2 | Barracks | 1938 | Fort Riley, KS | | A-19-14 |
| 9 a2 | Quarters for Packers | N.D. | Fort Riley, KS | X | A-2-17 |
| 9 a2 | Artillery Barracks, 80 Men | 1896 | Fort Riley, KS | X | Geo. E. Pond |
| 9 a2 | Cavalry Barracks | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 9 a2 | Barrack, 30'x60' | 1918 | Manual Cnstr Div | | 620-313 |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|-------------------------------------|------|------------------|-------|---------------|
| 9 a2 | Barrack, 30'x50' | 1918 | Manual Cnstr Div | | 620-342 |
| 9 a2 | Dtchmnt Bar., w/out mess 20' x var. | 1918 | Manual Cnstr Div | | 620-353 |
| 9 a2 | Detach. Bar., w/mess 20' x var. | 1918 | Manual Cnstr Div | | 620-355 |
| 9 a2 | Barrack, 30'x40' | 1918 | Manual Cnstr Div | | 620-366 |
| 9 a2 | Prisoner's Barrack & Yard, 30'x9 | 1918 | Manual Cnstr Div | | 620-373 |
| 9 a2 | Guard Barrack, 30'x90' | 1918 | Manual Cnstr Div | | 620-373-A |
| 9 a2 | Barrack & lavatory, 43'x120' | 1918 | Manual Cnstr Div | | 620-457 & 458 |
| 9 a2 | Dormitory for men, 28x113 | 1918 | Manual Cnstr Div | | 6307-110 |
| 9 a2 | Dormitory & Dining Room, 29x136 | 1918 | Manual Cnstr Div | | 6339-111 |
| 9 a2 | Dormitories w/Mess | 1918 | Manual Cnstr Div | X | SB 22 |
| 9 a2 | Typical Barracks, 66 Men | 1918 | Manual Cnstr Div | X | SB 4 |
| 9 a2 | NCO Barracks, Mobilization Camps | 1916 | Manual for QMC | X | 16-4 |
| 9 a2 | Barrack, Enl'std Men, Mob. Camps | 1916 | Manual for QMC | X | 16-5 |
| 9 a2 | Barracks | 1938 | Marshall Field, | X | 621-1072 |
| | | | | | |
| 9 b1 | Lavatory | 1916 | Fort Chaffee | | 700-285 |
| 9 b1 | Outhouse for Cavalry Barracks | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 9 b1 | Lav. w/out shwrs: 17x14, 17x21, 17x | 1918 | Manual Cnstr Div | | 620-324 |
| 9 b1 | Bath House, 9'x8' to 9'x32' | 1918 | Manual Cnstr Div | | 620-336 |
| 9 b1 | Lavatory w/showers, 20x49 | 1918 | Manual Cnstr Div | | 620-345 |
| 9 b1 | Lavatory w/showers, 20x42 | 1918 | Manual Cnstr Div | | 620-346 |
| 9 b1 | Lavatory w/showers, 20x35 | 1918 | Manual Cnstr Div | | 620-347 |
| 9 b1 | Lavatory w/showers, 20x21, x28 | 1918 | Manual Cnstr Div | | 620-348 |
| 9 b1 | Lavatory w/showers, 14x14, 14x20 | 1918 | Manual Cnstr Div | | 620-349 |
| 9 b1 | Shower shelter & wash house, 20x80 | 1918 | Manual Cnstr Div | | 620-451 |
| 9 b1 | Lavatory w/showers, 20x50 | 1918 | Manual Cnstr Div | | 620-523 |
| 9 b1 | Typical Lavatories | 1918 | Manual Cnstr Div | X | SB 6 |
| 9 b1 | Typical Lavatories Details | 1918 | Manual Cnstr Div | X | SB 7 |
| 9 b1 | Latrine, Mobilization Camps | 1916 | Manual for QMC | X | 16-8 |
| 9 b1 | Bath House, Mobilization Camps | 1916 | Manual for QMC | X | 16-9 |
| 9 b2 | Officers Mess | 1916 | Fort Chaffee | | 700-1127 |
| 9 b2 | Mess Patients | 1916 | Fort Chaffee | | 700-44+A476 |
| 9 b2 | Medical Detachment Mess | 1916 | Fort Chaffee | | 700-446 |
| 9 b2 | Officers' Mess | 1916 | Fort Chaffee | | 700-450 |
| 9 b2 | Nurses' Mess | 1916 | Fort Chaffee | | 700-451 |
| 9 b2 | 152 Man Mess | 1916 | Fort Chaffee | | 7093-921 |
| 9 b2 | 112 Man Mess | 1916 | Fort Chaffee | | 800-847 |
| 9 b2 | E.M. Mess | 1916 | Fort Chaffee | | 800-849 |
| 9 b2 | E.M. Mess (M-248 less one 8'bay) | 1916 | Fort Chaffee | | 800-851 |
| 9 b2 | Mess Hall, 144x177, 800 men | 1893 | Fort McPherson | | 42 |
| 9 b2 | Kitchen & Mess, 24x100, 31x33 | 1930 | Fort McPherson | | 6217-47 to 57 |
| 9 b2 | Dbl Mess Hall & Kit, 140x42, | 1906 | Fort McPherson | | 93-K |
| 9 b2 | Meat Inspection Platform, 10'x66' | 1918 | Manual Cnstr Div | | 620-429 |
| 9 b2 | Mess Building, 30x120 , x132, x144 | 1918 | Manual Cnstr Div | | 620-442 |
| 9 b2 | Refrigeration Plant, 20x72 | 1918 | Manual Cnstr Div | | 620-471 & 472 |
| 9 b2 | Regrigeration Cooling Tower, | 1918 | Manual Cnstr Div | | 620-473 |
| 9 b2 | Cafeteria, 105x192 | 1918 | Manual Cnstr Div | | 6209-113 |
| 9 b2 | Cafeteria, 54x189 | 1918 | Manual Cnstr Div | | 6339-131 |
| 9 b2 | Cafeteria, 132x173 | 1918 | Manual Cnstr Div | | 6370-106 |
| 9 b2 | Cafeteria, 110x171 | 1918 | Manual Cnstr Div | | 6383-110 |
| 9 b2 | Cafeteria, 156x200 | 1918 | Manual Cnstr Div | | 6403-111 |
| 9 b2 | Typ Hospital Kitchen Layouts | 1918 | Manual Cnstr Div | X | SB 13 |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|------|-------------------------------------|------|------------------|-------|-----------------|
| 9 b2 | Typical Mess Buildings | 1918 | Manual Cnstr Div | X | SB 15 |
| 9 b2 | Det Hut & Kitchen, Det & Qrntn Camp | 1918 | Manual Cnstr Div | X | SB 18 |
| 9 b2 | Kit. & Dining Rm, 72 Men, Mob. Cmps | 1916 | Manual for QMC | X | 15-6 |
| 9 b2 | Mess Building, Mobilization Camps | 1916 | Manual for QMC | X | 16-6 |
| 9 b2 | Kitchen, Mobilization Camps | 1916 | Manual for QMC | X | 16-7 |
| | | | | | |
| 9 c1 | Double NCO Quarters, type B | 1933 | F.E. Warren AFB | | 625-2510 & 2518 |
| 9 c1 | Double NCO Quarters, type A | 1933 | F.E. Warren AFB | | 625-2510 - 2511 |
| 9 c1 | Double Set N.C.S.O. Quarters | 1885 | F.E. Warren AFB | | 82-D |
| 9 c1 | N.C.O. Quarters | 1909 | F.E. Warren AFB | | 82-K |
| 9 c1 | Civillian Employees Quarters | 1911 | F.E. Warren AFB | | 82-P |
| 9 c1 | Double NCO Quarters | 1931 | F.E. Warren AFB | | 8682-D |
| 9 c1 | Hospital Sergant's Quarters | 1905 | F.E. Warren AFB | | Unknown |
| 9 c1 | Double NCO Quarters | 1931 | Fort D.A. Russel | | 625-1543 & 1544 |
| 9 c1 | Double NCO Quarters | 1933 | Fort D.A. Russel | | 625-2510 & 2511 |
| 9 c1 | Quarters for Civilian Employees | 1909 | Fort Riley, KS | X | 258 |
| 9 c1 | Double NCO Quarters, 2 sty, brick | 1930 | Fort Riley, KS | | 625-1444 |
| 9 c1 | Double NCO Quarters 2 sty, brick | 1930 | Fort Riley, KS | X | 625-1530 |
| 9 c1 | Double NCO Quarters, w sty, brick | 1930 | Fort Riley, KS | | 625-1543 |
| 9 c1 | NCO Quarters - type c - brick | 1932 | Fort Riley, KS | X | 625-1556 |
| 9 c1 | Double NCO Quarters, 2 sty, stone | 1938 | Fort Riley, KS | X | 625-3570-3 |
| 9 c1 | Double NCO Quarters, 2 sty, brick | 1935 | Fort Riley, KS | X | 625-3571 |
| 9 c1 | Double NCO Quarters, 2 story, stone | 1938 | Fort Riley, KS | X | 625-3571-3 |
| 9 c1 | Double NCO Quarters, 2 sty, brick | 1935 | Fort Riley, KS | X | 625-3572 |
| 9 c1 | Double NCO Quarters, 2 story stone | 1938 | Fort Riley, KS | X | 625-3572-3 |
| 9 c1 | NCO Double Quarters | 1930 | Fort Riley, KS | X | 625-541 |
| 9 c1 | Four Set Civillian's Quarters | 1909 | Fort Riley, KS | X | 82-N |
| 9 c1 | Quarters, no designation | 1939 | Fort Riley, KS | X | A-2-3 |
| 9 c1 | Frame Quarters for NCO | 1928 | Fort Riley, KS | X | Geo. E. Pond |
| 9 c1 | Non-Commissioned Officers Quarters | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 9 c1 | Quarters for Steam Heating Engineer | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 9 c1 | Housing, 4 families, 38x53 | 1918 | Manual Cnstr Div | | 6309-121 |
| 9 c1 | Housing, 1 family, 24x30 | 1918 | Manual Cnstr Div | | 6309-150 |
| 9 c1 | Housing, Boarding, 27x38 | 1918 | Manual Cnstr Div | | 6309-160 |
| 9 c1 | Housing, 1 family, 24x36 | 1918 | Manual Cnstr Div | | 6309-180 |
| 9 c1 | Housing, 1 family, 24x32 | 1918 | Manual Cnstr Div | | 6309-190 |
| 9 c1 | Housing, 2 family, 25x36 | 1918 | Manual Cnstr Div | | 6309-200 |
| | | | | | |
| 9 c2 | Officers Quarters | 1888 | F.E. Warren AFB | | (Illegible)2 |
| 9 c2 | Double Set Officer's Quarters | 1905 | F.E. Warren AFB | | 120-C |
| 9 c2 | Double Set Officers Quarters | 1905 | F.E. Warren AFB | | 120-D |
| 9 c2 | Double Lieutenants Quarters | 1909 | F.E. Warren AFB | | 120-F |
| 9 c2 | Officers Quarters | 1910 | F.E. Warren AFB | | 120-H |
| 9 c2 | Company Ofcr 4 Set Apt | 1931 | F.E. Warren AFB | | 129 |
| 9 c2 | Double Officers Quarters | 1906 | F.E. Warren AFB | | 142-A |
| 9 c2 | Double Officers Quarters | 1909 | F.E. Warren AFB | | 142-B |
| 9 c2 | Officers Quarters | 1910 | F.E. Warren AFB | | 142-D |
| 9 c2 | Field Officers Quarters | 1905 | F.E. Warren AFB | | 145 |
| 9 c2 | Field Officers Quarters | 1909 | F.E. Warren AFB | | 145-D |
| 9 c2 | Field Officers Quarters | 1910 | F.E. Warren AFB | | 145-F |
| 9 c2 | Field Officers Quarters | 1911 | F.E. Warren AFB | | 235-A |
| 9 c2 | 4 Set Officers Quarters | 1911 | F.E. Warren AFB | | 237-B |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|-------|-------------------------------------|------|------------------|-------|-----------------|
| 9 c2 | Company Officer's Quarters | 1932 | F.E. Warren AFB | | 625-1486 & 87 |
| 9 c2 | Double Set Officer's Quarters | 1905 | F.E. Warren AFB | | 90 |
| 9 c2 | C.O.'s Quarters | 1903 | F.E. Warren AFB | | 95-A |
| 9 c2 | Officers' Quarters | 1916 | Fort Chaffee | | 700-1254 |
| 9 c2 | Officers' Quarters | 1916 | Fort Chaffee | | 700-1257 |
| 9 c2 | Officers Quarters | 1916 | Fort Chaffee | | 800-306 |
| 9 c2 | Officers' Quarters | 1916 | Fort Chaffee | | 800-307 |
| 9 c2 | Field Officers Qtrs | 1909 | Fort D.A. Russel | | 215 |
| 9 c2 | 4-Set Officers Qtrs | 1911 | Fort D.A. Russel | | 267-B |
| 9 c2 | Company Offcirs Qtrs | N.D. | Fort D.A. Russel | | 625-1486 & 1487 |
| 9 c2 | Quarters for Two Lieutenants | 1907 | Fort Riley, KS | X | 120-H |
| 9 c2 | Quarters for Field Officer | 1905 | Fort Riley, KS | X | 145-D |
| 9 c2 | Officers Quarters 4 Officers | 1909 | Fort Riley, KS | X | 237-A |
| 9 c2 | Field Officers Quarters | 1932 | Fort Riley, KS | X | 625-1341 |
| 9 c2 | 4 Family Apt. House, Company Ofcirs | 1928 | Fort Riley, KS | | 625-803 |
| 9 c2 | 4 Family Apt. House, Company Ofcirs | 1930 | Fort Riley, KS | X | 625-806 |
| 9 c2 | Four Family Apartment House | 1930 | Fort Riley, KS | X | 625-808 |
| 9 c2 | Quarters, no designation | 1939 | Fort Riley, KS | X | A-4-7 |
| 9 c2 | Quarters, no designation | 1938 | Fort Riley, KS | X | A-4-9 |
| 9 c2 | Proposed Field Offcirs Quarters | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 9 c2 | Quarters for Commanding Officer | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 9 c2 | Double Quarters for Officer | 1902 | Fort Riley, KS | X | SPL 3-368 |
| 9 c2 | Officers Quarters | 1902 | Fort Riley, KS | | SPL 3-381 |
| 9 c2 | Officers Quarters, 20x49 | 1918 | Manual Cnstr Div | | 620-337 |
| 9 c2 | Officers Quarters, 30xvar. | 1918 | Manual Cnstr Div | | 620-343 |
| 9 c2 | Officers Quarters, 20x28 | 1918 | Manual Cnstr Div | | 620-344 |
| 9 c2 | Officers Quarters, 30xvar. | 1918 | Manual Cnstr Div | | 620-354 |
| 9 c2 | Officers Quarters, 20xvar. | 1918 | Manual Cnstr Div | | 620-363 |
| 9 c2 | Officers Quarters, 20xvar. | 1918 | Manual Cnstr Div | | 620-364 |
| 9 c2 | Officer's Qtrs, 20x21 types A,B,C | 1918 | Manual Cnstr Div | | 620-369 |
| 9 c2 | Typical 2 Story Officers Qtrs | 1918 | Manual Cnstr Div | X | SB 5 |
| 9 c2 | Field Officers Quarters | 1932 | Marshall Field, | X | 625-1301 |
| 9 c2 | Field Officers Quarters | 1933 | Marshall Field, | X | 625-1340 |
| 9 c2 | Company Officers Quarters | 1932 | Marshall Field, | X | 625-2491 |
| | | | | | |
| 9 d1 | Revised Plan of Engineer Garage | 1937 | Fort Riley, KS | X | A-20-12 |
| 9 d1 | NCO Garages | 1940 | Fort Riley, KS | X | A-20-7 |
| 9 d1 | Garage, 50' x var. | 1918 | Manual Cnstr Div | | 620-301 |
| 9 d1 | Garage, 65' x 108' | 1918 | Manual Cnstr Div | | 620-322 & 323 |
| 9 d1 | Garage, 30' x var. | 1918 | Manual Cnstr Div | | 620-511 |
| 9 d1 | Garage, open, 50'xvar. | 1918 | Manual Cnstr Div | | 620-524 |
| 9 d1 | Garage, closed, 70'x180' | 1918 | Manual Cnstr Div | | 620-525 |
| 9 d1 | Garage, Mechanical Repair, 140x144 | 1918 | Manual Cnstr Div | | 6242-5 |
| 9 d1 | Garage, 61x164 | 1918 | Manual Cnstr Div | | 6311-105 |
| 9 d1 | Garage, Ordinance, 50xvar. | 1918 | Manual Cnstr Div | | 652-17 |
| 10 a1 | Air Corps Hangar | 1930 | Chief of Air Cor | X | 695-272 |
| 10 a1 | Air Corps Hangar, E Design | 1931 | Chief of Air Cor | X | 695-284 |
| 10 a1 | Standard All Steel Airplane Hangar | ? | Chief of Air Ser | X | 6342-158 ? |
| 10 a1 | Airplane Hangar | N.D. | Fort Riley, KS | X | Butler Mfg Co |
| 10 a1 | Standard Steel & Wood Hangars | 1919 | Manual Cnstr Div | X | SB 9 |
| | | | | | |
| 10 b1 | Hay Shed | 1926 | F.E. Warren AFB | | 102-F |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|-------|-------------------------------------|------|------------------|-------|----------------|
| 10 b1 | Hay Shed | 1909 | F.E. Warren AFB | | 102-G |
| 10 b1 | Cavalry Stable | 1906 | F.E. Warren AFB | | 139 |
| 10 b1 | Artillery Stables | 1904 | F.E. Warren AFB | | 139-C |
| 10 b1 | Artillery or Infantry Stables | 1908 | F.E. Warren AFB | | 139-K |
| 10 b1 | Stable for Inf. & Officers Mounts | 1908 | F.E. Warren AFB | | 139-Q |
| 10 b1 | Veterinary Hospital | 1908 | F.E. Warren AFB | | 166 |
| 10 b1 | Stable Guard House, DBL Building | 1905 | F.E. Warren AFB | X | 39-C |
| 10 b1 | Stable Guard House & Shops | 1909 | F.E. Warren AFB | | 39-G |
| 10 b1 | Stable Guard House | 1909 | F.E. Warren AFB | | 39-L |
| 10 b1 | Stable Guard & Shops | 1909 | F.E. Warren AFB | | 39-N |
| 10 b1 | Stable Guard & shops | 1911 | F.E. Warren AFB | | 39-Q |
| 10 b1 | Wagon Shed | 1906 | F.E. Warren AFB | | 60-G |
| 10 b1 | Quartermaster Stable, 129x67 | 1908 | Fort McPherson | | 139-H |
| 10 b1 | Quartermaster Stable, 145x67 | 1910 | Fort McPherson | | 139-L |
| 10 b1 | Stables | 1938 | Fort Riley, KS | X | 14-7-illegible |
| 10 b1 | Stables | 1938 | Fort Riley, KS | X | 14-9-illegible |
| 10 b1 | Stable Guard House | Ileg | Fort Riley, KS | | 39-C |
| 10 b1 | Stable - School of Equitation | 1939 | Fort Riley, KS | X | A-14-12 |
| 10 b1 | Stable | 1938 | Fort Riley, KS | | A-14-4 |
| 10 b1 | Battery Stables | N.D. | Fort Riley, KS | X | E.B. Williston |
| 10 b1 | Cavalry Stables | N.D. | Fort Riley, KS | X | Geo. E. Pond |
| 10 b1 | Cantonment: R'mnt Sta 7500 Animals | 1918 | Manual Cnstr Div | X | 404-48 |
| 10 b1 | Stable - open 24xvar. | 1918 | Manual Cnstr Div | | 620-376 |
| 10 b1 | Hay Shed, 60'x165' | 1918 | Manual Cnstr Div | | 620-378 |
| 10 b1 | Stable - closed, 29xvar. | 1918 | Manual Cnstr Div | X | SB 17 |
| 10 b1 | Animal Shelter, Mobilization Camps | 1916 | Manual for QMC | X | 16-17 |
| | | | | | |
| 10 c1 | Gas Sta. & Pump House | 1916 | Fort Chaffee | | 800-601 |
| 10 c1 | Q.M. Gas Station | 1932 | Fort Riley, KS | X | A-5-21 |
| 10 c1 | Auto & Mtr Serv Sta, 35'x41' | 1918 | Manual Cnstr Div | | 620-397 |
| | | | | | |
| 10c2 | Road Cross Section, Typical | 1918 | Manual Cnstr Div | X | LA-1 |
| 10 c2 | Vehicle Shed | 1910 | F.E. Warren AFB | | 60-H |
| 10 c2 | Motor Repair Shop | 1916 | Fort Chaffee | | 700-1390 |
| 10 c2 | Motor School | 1916 | Fort Chaffee | | 700-374 |
| 10 c2 | Motor Repair Shop | 1916 | Fort Chaffee | | 700+A42-374 |
| 10 c2 | Grease Rack & Insp. Rack | 1916 | Fort Chaffee | | 800-1026 |
| 10 c2 | Motor Repair Shop | 1916 | Fort Chaffee | | 800-606 |
| 10 c2 | Dispatching House | 1916 | Fort Chaffee | | 800-661 |
| 10 c2 | Dispatcher's Office | 1939 | Fort Riley, KS | | A-19-4 |
| 10 c2 | Shop, Motor Repair, 60x130 | 1918 | Manual Cnstr Div | | 620-387 & 388 |
| 10 c2 | Shop, Motor Repair, 75x96 | 1918 | Manual Cnstr Div | | 620-478 & 479 |
| 10 c2 | Storage, Vehicles # 3, 161xvar | 1918 | Manual Cnstr Div | | 652-188 |
| 10 c2 | Storage, Vehicles, #1, 113x513 | 1918 | Manual Cnstr Div | | 652-43 |
| 10 c2 | Vehicle Shelter, Mobilization Camps | 1916 | Manual for QMC | X | 16-18 |
| | | | | | |
| 10 d1 | Trestle, Coal | 1918 | Fort Lewis, WA | X | RR 9 |
| 10 d1 | Standard Railway Trestle | 1918 | Manual Cnstr Div | X | RR-1 |
| 10 d1 | Std. Railway Coal Trestle | 1918 | Manual Cnstr Div | X | RR-2 |
| 10 d1 | Std. Timber Coal Pocket | 1918 | Manual Cnstr Div | X | RR-3 |
| 10d1 | Cantonment: RR Terminal | 1918 | Manual Cnstr Div | X | 610-238 |
| 10 d1 | Std. Trestle Bumper, Railways | 1918 | Manual Cnstr Div | X | RR-5 |

Sorted by: TYPE

| TYPE | BUILDING | DATE | INSTALLATI | DRWNG | STD_PLAN |
|-------|-------------------------------------|------|------------------|-------|---------------|
| 10 d2 | Turnout & Crossover, Railways | 1918 | Manual Cnstr Div | X | RR-4 |
| 10 d2 | Roadbed Sectons, Railways | 1918 | Manual Cnstr Div | X | RR-6 |
| 11 a | Cantonment: Div HQ | 1918 | Manual Cnstr Div | X | 610-221 & 227 |
| 11 a | Cantonment: Rgmt Inf, Brigd HQ | 1918 | Manual Cnstr Div | X | 610-222 |
| 11 a | Cantonment: Rgmt Lt Art'ly | 1918 | Manual Cnstr Div | X | 610-225 |
| 11 a | Contonment: Rgmt Hvy Art'ly | 1918 | Manual Cnstr Div | X | 610-226 |
| 11 a | Cantonment: Camp Center | 1918 | Manual Cnstr Div | X | 610-232 |
| 11 a | Cantonment: Depot Brgd HQ | 1918 | Manual Cnstr Div | X | 610-233 |
| 11 a | Cantonment: Qrnt'n Camp 1000 men | 1918 | Manual Cnstr Div | X | 610-274 |
| 11 a | Typ L'scp Pl'tg: CO & Dbl CO Qtrs | 1935 | Office of QMG | X | 630-100 |
| 11 a | Typical Street Tree Planting | 1935 | Office of QMG | X | 630-102 |
| 11 a | Typ L'scp Pl'tg: Th'tre, Hosp, Chpl | 1935 | Office of QMG | X | 630-103 |
| 11 a | Typ. L'scp Pl'tg: HQ, Admin, BOQ | 1935 | Office of QMG | X | 630-Illegible |
| 11a | Road Cross Sections, Typical | 1918 | Manual Cnstr Div | X | LA-2 |
| 11a | Northern & Southern Constr Zones | 1918 | Manual Cnstr Div | X | 620-320-2-182 |
| 11a | Typical 1 Story Building | 1918 | Manual Cnstr Div | X | SB 1 |
| 11a | Typical 2 Story Building | 1918 | Manual Cnstr Div | X | SB 2 |
| 11a | Typical 2 Sty Building, Details | 1918 | Manual Cnstr Div | X | SB 3 |
| 11a | Temporary Bldgs for Mob Camps | 1916 | Manual for QMC | X | 16-1 |
| 11a | Terminal General Plan | 1918 | Manual Cnstr Div | X | RR-7 |
| 11a | Terminals General Plans | 1918 | Manual Cnstr Div | X | RR-8 |

Sorted by: STANDARDIZED PLAN NUMBER

| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------------|-------------------------------------|------|------------------|-------|-------|
| (Illegible)2 | Officers Quarters | 1888 | F.E. Warren AFB | | 9 c2 |
| 1-1180 | Post Bakery | 1903 | F.E. Warren AFB | | 5 c1 |
| 1-620-B | Crematory | 1908 | F.E. Warren AFB | | 6 c |
| 1-729 S.P.S. | Post Headquarters | 1909 | F.E. Warren AFB | | 1 c |
| 1-729-S.P.S. | Hosp Corps Bar. | 1908 | Fort D.A. Russel | | 9 a2 |
| 102-F | Hay Shed | 1926 | F.E. Warren AFB | | 10 b1 |
| 102-G | Hay Shed | 1909 | F.E. Warren AFB | | 10 b1 |
| 103-A | Ordnance Storehouse, 30x50 | 1897 | Fort McPherson | | 5 d1 |
| 104 | Light Battery Gun Shed | 1905 | F.E. Warren AFB | | 5 d2 |
| 104-F | Light Battery Gun Shed | 1908 | F.E. Warren AFB | | 5 d2 |
| 106 | Subsistence Storehouse | 1897 | Fort McPherson | | 5 d1 |
| 112-F | Administration Building | 1911 | F.E. Warren AFB | | 1 c |
| 120-C | Double Set Officer's Quarters | 1905 | F.E. Warren AFB | | 9 c2 |
| 120-D | Double Set Officers Quarters | 1905 | F.E. Warren AFB | | 9 c2 |
| 120-F | Double Lieutenants Quarters | 1909 | F.E. Warren AFB | | 9 c2 |
| 120-H | Officers Quarters | 1910 | F.E. Warren AFB | | 9 c2 |
| 120-H | Quarters for Two Lieutanants | 1907 | Fort Riley, KS | X | 9 c2 |
| 122-B | Artillery Exchange | 1910 | F.E. Warren AFB | | 7 f |
| 122-b | Cavalry Post Exchange | 1910 | F.E. Warren AFB | | 7 f |
| 122-F | Admin Building (Artillery) | 1911 | F.E. Warren AFB | | 1 c |
| 129 | Company Ofcr 4 Set Apt | 1931 | F.E. Warren AFB | | 9 c2 |
| 132-E | Pump House (& N.C.O. Quarters) | 1905 | F.E. Warren AFB | | 6 b |
| 132-H | Boiler/Pump House | 1905 | Fort McPherson | | 6 a |
| 139 | Cavalry Stable | 1906 | F.E. Warren AFB | | 10 b1 |
| 139-C | Artillery Stables | 1904 | F.E. Warren AFB | | 10 b1 |
| 139-H | Quartermaster Stable, 129x67 | 1908 | Fort McPherson | | 10 b1 |
| 139-K | Artillery or Infantry Stables | 1908 | F.E. Warren AFB | | 10 b1 |
| 139-L | Quartermaster Stable, 145x67 | 1910 | Fort McPherson | | 10 b1 |
| 139-Q | Stable for Inf. & Officers Mounts | 1908 | F.E. Warren AFB | | 10 b1 |
| 14-7-illegible | Stables | 1938 | Fort Riley, KS | X | 10 b1 |
| 14-9-illegible | Stables | 1938 | Fort Riley, KS | X | 10 b1 |
| 142-A | Double Officers Quarters | 1906 | F.E. Warren AFB | | 9 c2 |
| 142-B | Double Officers Quarters | 1909 | F.E. Warren AFB | | 9 c2 |
| 142-D | Officers Quarters | 1910 | F.E. Warren AFB | | 9 c2 |
| 145 | Field Officers Quarters | 1905 | F.E. Warren AFB | | 9 c2 |
| 145-D | Field Officers Quarters | 1909 | F.E. Warren AFB | | 9 c2 |
| 145-D | Quarters for Field Officer | 1905 | Fort Riley, KS | X | 9 c2 |
| 145-F | Field Officers Quarters | 1910 | F.E. Warren AFB | | 9 c2 |
| 15-6 | Kit. & Dining Rm, 72 Men, Mob. Cmps | 1916 | Manual for QMC | X | 9 b2 |
| 150 | Artillery Barracks | 1904 | F.E. Warren AFB | | 9 a2 |
| 152 | B.O.Q | 1902 | Fort Riley, KS | X | 9 a1 |
| 152-B | BOQ, 33x140, 33x45, 12x33 | 1904 | Fort McPherson | X | 9 a1 |
| 152-E | Nurses Quarters | 1906 | F.E. Warren AFB | | 9 a1 |
| 152-G | Bachelor Officers Quarters | 1908 | F.E. Warren AFB | | 9 a1 |
| 152-L | Bachelor Officers Quarters | 1910 | F.E. Warren AFB | | 9 a1 |
| 158 | Post Exchange | 1905 | F.E. Warren AFB | | 7 f |
| 16-1 | Temporary Bldgs for Mob Camps | 1916 | Manual for QMC | X | 11 a |
| 16-10 | Admin Building, Mobilization Camps | 1916 | Manual for QMC | X | 1 c |
| 16-11 | Guard House, Mobilization Camps | 1916 | Manual for QMC | X | 1 b |
| 16-12 | Store House, Mobilization Camps | 1916 | Manual for QMC | X | 5 d1 |
| 16-13 | Hospital, Mobilization Camps | 1916 | Manual for QMC | X | 4 b |

Sorted by: STANDARDIZED PLAN NUMBER

| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------|-------------------------------------|-------|------------------|-------|-------|
| 16-14 | Ward Building, Mobilization Camps | 1916 | Manual for QMC | X | 4 |
| 16-15 | Post Exchange, Mobilization Camps | 1916 | Manual for QMC | X | 7 |
| 16-16 | Field Bakery, Mobilization Camps | 1916 | Manual for QMC | X | 5 c1 |
| 16-17 | Animal Shelter, Mobilization Camps | 1916 | Manual for QMC | X | 10 b1 |
| 16-18 | Vehicle Shelter, Mobilization Camps | 1916 | Manual for QMC | X | 10 c2 |
| 16-2 | Officers Quarters, Lge, Mob. Camps | 1916 | Manual for QMC | X | 9 a1 |
| 16-3 | Officers Quarters, Sml, Mob. Camps | 1916 | Manual for QMC | X | 9 a1 |
| 16-4 | NCO Barracks, Mobilization Camps | 1916 | Manual for QMC | X | 9 a2 |
| 16-5 | Barrack, Enl'std Men, Mob. Camps | 1916 | Manual for QMC | X | 9 a2 |
| 16-6 | Mess Building, Mobilization Camps | 1916 | Manual for QMC | X | 9 b2 |
| 16-7 | Kitchen, Mobilization Camps | 1916 | Manual for QMC | X | 9 b2 |
| 16-8 | Latrine, Mobilization Camps | 1916 | Manual for QMC | X | 9 b1 |
| 16-9 | Bath House, Mobilization Camps | 1916 | Manual for QMC | X | 9 b1 |
| 166 | Veterinary Hospital | 1908 | F.E. Warren AFB | | 10 b1 |
| 174 | Post Exchange & Gymnasium | 1906 | Fort Riley, KS | X | 7 a |
| 177 | Post & Telegraph Office | 1907 | F.E. Warren AFB | | 1 d |
| 181 | Artillery Barracks | 1908 | F.E. Warren AFB | | 9 a2 |
| 186 | Commissary Building | 1910 | F.E. Warren AFB | | 7 f |
| 188 | B.O.Q. | N.D. | Fort Riley, KS | X | 9 a1 |
| 19-2-70 | Magazine, Post Ordnance | 1934 | Fort Lewis, WA | X | 5 d2 |
| 193 | Granary | 1907 | Fort Riley, KS | X | 5 d1 |
| 193-A | Cavalry Granary | 1909 | F.E. Warren AFB | | 5 d1 |
| 196-A | Ice House | 1910 | F.E. Warren AFB | | 6 b |
| 198 | Q.M. Store House, Artillery | 1909 | F.E. Warren AFB | | 5 d2 |
| | | | | | |
| 2-76 | Hospital Corps Barracks | 1912 | Fort D.A. Russel | | 9 a |
| 206 | Guard House | 1911 | F.E. Warren AFB | | 1 b |
| 209 | Artillery Gun Shed | 1909 | F.E. Warren AFB | | 5 d2 |
| 215 | Field Officers Qtrs | 1909 | Fort D.A. Russel | | 9 c2 |
| 234-B | Laundry | 1911 | F.E. Warren AFB | | 5 c2 |
| 235-A | Field Officers Quarters | 1911 | F.E. Warren AFB | | 9 c2 |
| 237-A | Officers Quarters 4 Officers | 1909 | Fort Riley, KS | X | 9 c2 |
| 237-B | 4 Set Officers Quarters | 1911 | F.E. Warren AFB | | 9 c2 |
| 243-B | Laundry | 1911 | F.E. Warren AFB | | 5 c2 |
| 247 | Dispensary (Cavalry) | 1909 | F.E. Warren AFB | | 4 a |
| 258 | Teamsters Quarters | 1910 | F.E. Warren AFB | | 9 a2 |
| 258 | Quarters for Civilian Employees | 1909 | Fort Riley, KS | X | 9 c1 |
| 262 | Ammunition Storehouse | 1910 | F.E. Warren AFB | | 5 d2 |
| 263 | Powder Magazine | 1910 | F.E. Warren AFB | | 5 d2 |
| 267-B | 4-Set Officers Qtrs | 1911 | Fort D.A. Russel | | 9 c2 |
| 276 | Hospital Corps Barracks | 1912 | F.E. Warren AFB | | 9 a2 |
| | | | | | |
| 30-C | Post Guard House | 1901 | F.E. Warren AFB | | 1 b |
| 39-C | Stable Guard House, DBL Building | 1905 | F.E. Warren AFB | X | 10 b1 |
| 39-C | Stable Guard House | Illeg | Fort Riley, KS | | 10 b1 |
| 39-G | Stable Guard House & Shops | 1909 | F.E. Warren AFB | | 10 b1 |
| 39-L | Stable Guard House | 1909 | F.E. Warren AFB | | 10 b1 |
| 39-N | Stable Guard & Shops | 1909 | F.E. Warren AFB | | 10 b1 |
| 39-Q | Stable Guard & shops | 1911 | F.E. Warren AFB | | 10 b1 |
| | | | | | |
| 4-936 | Electric Sub Station, 10x12 | 1909 | Fort McPherson | | 6 a |

Sorted by: STANDARDIZED PLAN NUMBER

| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------------|-------------------------------------|------|------------------|-------|-------|
| 404-48 | Cantonment: R'mnt Sta 7500 Animals | 1918 | Manual Cnstr Div | X | 10 b1 |
| 407 | Shop Building | 1916 | Fort Riley, KS | X | 5 a |
| 408-204 | Sewage Treat. Plnt, Cntrl Hse | 1942 | Fort Riley, KS | X | 6 b |
| 414-43-228 | Incinerator - trash only | 1939 | F.E. Warren AFB | | 6 c |
| 414/43/330 | Incinerator | 1916 | Fort Chaffee | | 6 c |
| 42 | Mess Hall, 144x177, 800 men | 1893 | Fort McPherson | | 9 b2 |
| 46 | Magazine, 12x15, brick | 1893 | Fort McPherson | | 5 d2 |
| 49H | Bakery | 1902 | Fort Riley, KS | X | 5 c1 |
| | | | | | |
| 53-A | Q.M. Forage Storehouse | 1908 | F.E. Warren AFB | | 5 d1 |
| 53-D | Q.M. Barracks for M.T. | 1900 | F.E. Warren AFB | | 9 a2 |
| 59-K | Artillery Workshop | 1904 | F.E. Warren AFB | | 5 a |
| 59-U | Utility Office | 1931 | F.E. Warren AFB | | 6 b |
| 59-V | Artillery Shop | 1908 | F.E. Warren AFB | | 5 a |
| | | | | | |
| 60-G | Wagon Shed | 1906 | F.E. Warren AFB | | 10 b1 |
| 60-H | Vehicle Shed | 1910 | F.E. Warren AFB | | 10 c2 |
| 608-104 | Lecture Hall, 51x77 | 1918 | Manual Cnstr Div | | 7 a |
| 608-24 | Theatre, Class a, 120x187 | 1918 | Manual Cnstr Div | | 7 g |
| 608-31to34&106 | Theatre, Liberty, Class D | 1918 | Manual Cnstr Div | | 7 g |
| 608-360 - 366 | War Dept Theater | 1939 | Fort D.A. Russel | | 7 g |
| 608-360 to 366 | War Dept Theatre | 1939 | F.E. Warren AFB | | 7 g |
| 61-F | Cavalry Band Barracks | 1909 | F.E. Warren AFB | | 9 a2 |
| 61-F | Band Barracks | 1907 | Fort Riley, KS | X | 9 a2 |
| 610-221 & 227 | Cantonment: Div HQ | 1918 | Manual Cnstr Div | X | 11 a |
| 610-222 | Cantonment: Rgmt Inf, Brigd HQ | 1918 | Manual Cnstr Div | X | 11 a |
| 610-225 | Cantonment: Rgmt Lt Art'ly | 1918 | Manual Cnstr Div | X | 11 a |
| 610-226 | Contonment: Rgmt Hvy Art'ly | 1918 | Manual Cnstr Div | X | 11 a |
| 610-232 | Cantonment: Camp Center | 1918 | Manual Cnstr Div | X | 11 a |
| 610-233 | Cantonment: Depot Brgd HQ | 1918 | Manual Cnstr Div | X | 11 a |
| 610-238 | Cantonment: RR Terminal | 1918 | Manual Cnstr Div | X | 10d1 |
| 610-274 | Cantonment: Qrnt'n Camp 1000 men | 1918 | Manual Cnstr Div | X | 11 a |
| 613-9365 | Operations Building | 1940 | Marshall Field | | 1 c |
| 6139-307 | Admin Bldg? No Title | N.D. | Fort Riley, KS | X | 1 c |
| 6139-310 | Academic Building | 1938 | Fort Riley, KS | X | 3 a |
| 6139-366 | Operations Building | 1940 | Marshall Field, | | 1 c |
| 6143-2 | Gas Instruction, 16x30 | 1918 | Manual Cnstr Div | | 3 a |
| 6196-104 | Magazine, Black P'wdr, 16x22 | 1918 | Manual Cnstr Div | | 5 d2 |
| 620-301 | Garage, 50' x var. | 1918 | Manual Cnstr Div | | 9 d1 |
| 620-302 | Infirmery - Medical, 30'x63' | 1918 | Manual Cnstr Div | | 4 a |
| 620-307 & 308 | Infirmery & Dental Ops Bldg. 30'x88 | 1918 | Manual Cnstr Div | | 4 a |
| 620-310 & 311 | Infirm./Dntl Dorm Bldg, 30'x88' | 1918 | Manual Cnstr Div | | 4 a |
| 620-313 | Barrack, 30'x60' | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-318 | Store House, Regmtl, 20xvar. | 1918 | Manual Cnstr Div | | 5 d1 |
| 620-320-2-182 | Northern & Southern Constr Zones | 1918 | Manual Cnstr Div | X | 11a |
| 620-322 & 323 | Garage, 65' x 108' | 1918 | Manual Cnstr Div | | 9 d1 |
| 620-324 | Lav. w/out shwrs: 17x14, 17x21, 17x | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-326 | Detention Hut, 20'x20' | 1918 | Manual Cnstr Div | | 4 b |
| 620-327 | Admin. Building, 20' x 84' | 1918 | Manual Cnstr Div | | 1 c |
| 620-328 | Tel. & Teleg. Bldg, 20x70 | 1918 | Manual Cnstr Div | | 2 b |
| 620-331 | Guard house, Regimental 20'x56' | 1918 | Manual Cnstr Div | | 1 b |

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| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------------|-------------------------------------|------|------------------|-------|-------|
| 620-332 | Shed - Wagon or Gun, 29xvar. | 1918 | Manual Cnstr Div | | 5 d2 |
| 620-333 | Infirmary - Medical, Addition, 24'x | 1918 | Manual Cnstr Div | | 4 a |
| 620-336 | Bath House, 9'x8' to 9'x32' | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-337 | Officers Quarters, 20x49 | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-340 | Bakery, 30'x70' | 1918 | Manual Cnstr Div | | 5 c1 |
| 620-341 | Fire Station, 24'x77' | 1918 | Manual Cnstr Div | | 1 a |
| 620-342 | Barrack, 30'x50' | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-343 | Officers Quarters, 30xvar. | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-344 | Officers Quarters, 20x28 | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-345 | Lavatory w/showers, 20x49 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-346 | Lavatory w/showers, 20x42 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-347 | Lavatory w/showers, 20x35 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-348 | Lavatory w/showers, 20x21, x28 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-349 | Lavatory w/showers, 14x14, 14x20 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-353 | Dtchmnt Bar., w/out mess 20' x var. | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-354 | Officers Quarters, 30xvar. | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-355 | Detach. Bar., w/mess 20' x var. | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-356 | Administration Building, 20'x49' | 1918 | Manual Cnstr Div | | 1 c |
| 620-359 | Post Exchange, 32x91 | 1918 | Manual Cnstr Div | | 7 f |
| 620-361 & 362 | Bakery, 40'x136 & 51'x62' | 1918 | Manual Cnstr Div | | 5 c1 |
| 620-363 | Officers Quarters, 20xvar. | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-364 | Officers Quarters, 20xvar. | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-365 | Fire Station, 31'x88' | 1918 | Manual Cnstr Div | | 1 a |
| 620-366 | Barrack, 30'x40' | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-368 to 375 | Infirmary - Medical, 30'x77' | 1918 | Manual Cnstr Div | | 4 a |
| 620-369 | Officer's Qtrs, 20x21 types A,B,C | 1918 | Manual Cnstr Div | | 9 c2 |
| 620-370 | Magazine, 20'x20' | 1918 | Manual Cnstr Div | | 5 d2 |
| 620-371 | Magazine, 24'x60' | 1918 | Manual Cnstr Div | | 5 d2 |
| 620-372 | Shop, 20x36 | 1918 | Manual Cnstr Div | | 5 a |
| 620-373 | Prisoner's Barrack & Yard, 30'x9 | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-373-A | Guard Barrack, 30'x90' | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-374 | Post Office Building, 32x51 | 1918 | Manual Cnstr Div | | 1 d |
| 620-376 | Stable - open 24xvar. | 1918 | Manual Cnstr Div | | 10 b1 |
| 620-378 | Hay Shed, 60'x165' | 1918 | Manual Cnstr Div | | 10 b1 |
| 620-379 | Bakery, 40'x136' | 1918 | Manual Cnstr Div | | 5 c1 |
| 620-381 | Shop, Clothing etc 30x102 | 1918 | Manual Cnstr Div | | 5 a |
| 620-382 | Infirmary - Medical, 30'x105' | 1918 | Manual Cnstr Div | | 4 a |
| 620-383 & 384 | Infirmary - Medical, 30'x112' | 1918 | Manual Cnstr Div | | 4 a |
| 620-385 & 386 | Warehouse, Clothing, 60x100 | 1918 | Manual Cnstr Div | | 5 d1 |
| 620-387 & 388 | Shop, Motor Repair, 60x130 | 1918 | Manual Cnstr Div | | 10 c2 |
| 620-390 | Shop, QMaster, 2 bldgs each, 36x106 | 1918 | Manual Cnstr Div | | 5 a |
| 620-392 & 393 | Infirmary - Medical, 30'x98' | 1918 | Manual Cnstr Div | | 4 a |
| 620-395 | Stable Guard , 20x21 | 1918 | Manual Cnstr Div | | 5 a |
| 620-396 | Oil house, 20x30 | 1918 | Manual Cnstr Div | | 6 a |
| 620-397 | Auto & Mtr Serv Sta, 35'x41' | 1918 | Manual Cnstr Div | | 10 c1 |
| 620-412 & 413 | Store House, Salvage, 60x168 | 1918 | Manual Cnstr Div | | 5 d1 |
| 620-418 | Telegraph office & Quarters, 20x110 | 1918 | Manual Cnstr Div | | 2 b |
| 620-428 | Bakery, 30'x50' | 1918 | Manual Cnstr Div | | 5 c1 |
| 620-429 | Meat Inspection Platform, 10'x66' | 1918 | Manual Cnstr Div | | 9 b2 |
| 620-432 | Waste & Transfer Station, 20x130 | 1918 | Manual Cnstr Div | | 6 c |
| 620-435 | Rendering Plant, 32x48 | 1918 | Manual Cnstr Div | | 5 b |

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| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|-----------------|-------------------------------------|------|------------------|-------|-------|
| 620-436 | Shop, Cot repair, 40x36 | 1918 | Manual Cnstr Div | | 5 a |
| 620-437 | Shop, Clothing, etc, 60x100 | 1918 | Manual Cnstr Div | | 5 a |
| 620-439 | Shop, Tent Treating, 36x40 | 1918 | Manual Cnstr Div | | 5 a |
| 620-440 | Shop, Tent Repair, 40x60 | 1918 | Manual Cnstr Div | | 5 a |
| 620-441 | Fire Station, 31'x88' | 1918 | Manual Cnstr Div | | 1 a |
| 620-442 | Mess Building, 30x120 , x132, x144 | 1918 | Manual Cnstr Div | | 9 b2 |
| 620-445 & 446 | Hose House (Type A & B) 6'x7' | 1918 | Manual Cnstr Div | | 6 b |
| 620-447 | Fire Station, 31'x103 | 1918 | Manual Cnstr Div | | 1 a |
| 620-449 | Infirmery - Medical, 30'x56' | 1918 | Manual Cnstr Div | | 4 a |
| 620-450 | Classroom Building, 30' x 60' | 1918 | Manual Cnstr Div | | 3 a |
| 620-451 | Shower shelter & wash house, 20x80 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-452 | Magazine, brick w/corr steel rf, 10 | 1918 | Manual Cnstr Div | | 5 d2 |
| 620-457 & 458 | Barrack & lavatory, 43'x120' | 1918 | Manual Cnstr Div | | 9 a2 |
| 620-467 | Shop, Clothing, etc 28x132, 28x162 | 1918 | Manual Cnstr Div | | 5 a |
| 620-469 & 470 | Classroom Building, 49'x150 | 1918 | Manual Cnstr Div | | 3 a |
| 620-471 & 472 | Refrigeration Plant, 20x72 | 1918 | Manual Cnstr Div | | 9 b2 |
| 620-473 | Regrigeration Cooling Tower, | 1918 | Manual Cnstr Div | | 9 b2 |
| 620-478 & 479 | Shop, Motor Repair, 75x96 | 1918 | Manual Cnstr Div | | 10 c2 |
| 620-490 & 491 | Coffee Roasting & Grinding Plant | 1918 | Manual Cnstr Div | | 5 b |
| 620-492 | Boiler Houses | 1918 | Manual Cnstr Div | | 6 a |
| 620-496 | Garage for Ambulances, 22'x47' | 1918 | Manual Cnstr Div | | 4 b |
| 620-499 & 500 | Liberty Theatre, 60x120 | 1918 | Manual Cnstr Div | | 7 g |
| 620-505 | Bakery 33'x51' | 1918 | Manual Cnstr Div | | 5 c1 |
| 620-507 | Classroom Building, 30'x60' | 1918 | Manual Cnstr Div | | 3 a |
| 620-508 | Ordnance Repair Shop 30x106 | 1918 | Manual Cnstr Div | | 5 a |
| 620-511 | Garage, 30' x var. | 1918 | Manual Cnstr Div | | 9 d1 |
| 620-523 | Lavatory w/showers, 20x50 | 1918 | Manual Cnstr Div | | 9 b1 |
| 620-524 | Garage, open, 50'xvar. | 1918 | Manual Cnstr Div | | 9 d1 |
| 620-525 | Garage, closed, 70'x180' | 1918 | Manual Cnstr Div | | 9 d1 |
| 6209-113 | Cafeteria, 105x192 | 1918 | Manual Cnstr Div | | 9 b2 |
| 621-1072 | Barracks | 1938 | Marshall Field, | X | 9 a2 |
| 621-1325--1346 | Med Dtchmnt Bar (and 6560-140--142) | 1939 | F.E. Warren AFB | | 9 a2 |
| 621-850 & 851 | Detachment Barracks | 1931 | F.E. Warren AFB | | 9 a2 |
| 6217-105 to 107 | War Dept Theatre, 85x49 | 1939 | Fort McPherson | | 7 g |
| 6217-127? | Film Vault, size illegible | ? | Fort McPherson | | 5 d1 |
| 6217-36 to 45 | Clinic 28 beds, 34x130, 9x30 | 1930 | Fort McPherson | | 5 d1 |
| 6217-47 to 57 | Kitchen & Mess, 24x100, 31x33 | 1930 | Fort McPherson | | 9 b2 |
| 6217-65, 74, 76 | Dental Cinc & Cont. Ward, 34x130 | 1939 | Fort McPherson | | 4 a |
| 6242-5 | Garage, Mechanical Repair, 140x144 | 1918 | Manual Cnstr Div | | 9 d1 |
| 625-1301 | Field Officers Quarters | 1932 | Marshall Field, | X | 9 c2 |
| 625-1340 | Field Officers Quarters | 1933 | Marshall Field, | X | 9 c2 |
| 625-1341 | Field Officers Quarters | 1932 | Fort Riley, KS | X | 9 c2 |
| 625-1444 | Double NCO Quarters, 2 sty, brick | 1930 | Fort Riley, KS | | 9 c1 |
| 625-1486 & 87 | Company Officer's Quarters | 1932 | F.E. Warren AFB | | 9 c2 |
| 625-1486 & 1487 | Company Officrs Qtrs | N.D. | Fort D.A. Russel | | 9 c2 |
| 625-1530 | Double NCO Quarters 2 sty, brick | 1930 | Fort Riley, KS | X | 9 c1 |
| 625-1543 | Double NCO Quarters, w sty, brick | 1930 | Fort Riley, KS | | 9 c1 |
| 625-1543 & 1544 | Double NCO Quarters | 1931 | Fort D.A. Russel | | 9 c1 |
| 625-1556 | NCO Quarters - type c - brick | 1932 | Fort Riley, KS | X | 9 c1 |
| 625-2491 | Company Officers Quarters | 1932 | Marshall Field, | X | 9 c2 |
| 625-2510 & 2511 | Double NCO Quarters | 1933 | Fort D.A. Russel | | 9 c1 |

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| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|-----------------|-------------------------------------|------|------------------|-------|-------|
| 625-2510 & 2518 | Double NCO Quarters, type B | 1933 | F.E. Warren AFB | | 9 c1 |
| 625-2510 - 2511 | Double NCO Quarters, type A | 1933 | F.E. Warren AFB | | 9 c1 |
| 625-3570-3 | Double NCO Quarters, 2 sty, stone | 1938 | Fort Riley, KS | X | 9 c1 |
| 625-3571 | Double NCO Quarters, 2 sty, brick | 1935 | Fort Riley, KS | X | 9 c1 |
| 625-3571-3 | Double NCO Quarters, 2 story, stone | 1938 | Fort Riley, KS | X | 9 c1 |
| 625-3572 | Double NCO Quarters, 2 sty, brick | 1935 | Fort Riley, KS | X | 9 c1 |
| 625-3572-3 | Double NCO Quarters, 2 story stone | 1938 | Fort Riley, KS | X | 9 c1 |
| 625-541 | NCO Double Quarters | 1930 | Fort Riley, KS | X | 9 c1 |
| 625-803 | 4 Family Apt. House, Company Ofcrs | 1928 | Fort Riley, KS | | 9 c2 |
| 625-806 | 4 Family Apt. House, Company Ofcrs | 1930 | Fort Riley, KS | X | 9 c2 |
| 625-808 | Four Family Apartment House | 1930 | Fort Riley, KS | X | 9 c2 |
| 6271-7 | Storage Depot/admin Bldg, 140x160 | 1918 | Manual Cnstr Div | | 5 d1 |
| 630-100 | Typ L'scp Pl'tg: CO & Dbl CO Qtrs | 1935 | Office of QMG | X | 11 a |
| 630-102 | Typical Street Tree Planting | 1935 | Office of QMG | X | 11 a |
| 630-103 | Typ L'scp Pl'tg: Th'tre, Hosp, Chpl | 1935 | Office of QMG | X | 11 a |
| 630-Illegible | Typ. L'scp Pl'tg: HQ, Admin, BOQ | 1935 | Office of QMG | X | 11 a |
| 6307-110 | Dormitory for men, 28x113 | 1918 | Manual Cnstr Div | | 9 a2 |
| 6309-121 | Housing, 4 families, 38x53 | 1918 | Manual Cnstr Div | | 9 c1 |
| 6309-150 | Housing, 1 family, 24x30 | 1918 | Manual Cnstr Div | | 9 c1 |
| 6309-160 | Housing, Boarding, 27x38 | 1918 | Manual Cnstr Div | | 9 c1 |
| 6309-180 | Housing, 1 family, 24x36 | 1918 | Manual Cnstr Div | | 9 c1 |
| 6309-190 | Housing, 1 family, 24x32 | 1918 | Manual Cnstr Div | | 9 c1 |
| 6309-200 | Housing, 2 family, 25x36 | 1918 | Manual Cnstr Div | | 9 c1 |
| 6311-105 | Garage, 61x164 | 1918 | Manual Cnstr Div | | 9 d1 |
| 632-551 | Delousing Plant, 48x84 | 1918 | Manual Cnstr Div | | 4 a |
| 632-552 | Delousing Plant, 60x204 | 1918 | Manual Cnstr Div | | 4 a |
| 633-130 | Laundry, 72x216, 5-10,000 men | 1918 | Manual Cnstr Div | | 5 c2 |
| 633-140 | Laundry, 36x108, 1-2,000 men | 1918 | Manual Cnstr Div | | 5 c2 |
| 633-165 | Typical Dry Cleaning Plant | 1930 | Fort Riley, KS | | 5 c2 |
| 6339-111 | Dormitory & Dining Room, 29x136 | 1918 | Manual Cnstr Div | | 9 a2 |
| 6339-131 | Cafeteria, 54x189 | 1918 | Manual Cnstr Div | | 9 b2 |
| 6342-158 ? | Standard All Steel Airplane Hangar | ? | Chief of Air Ser | X | 10 a1 |
| 6370-106 | Cafeteria, 132x173 | 1918 | Manual Cnstr Div | | 9 b2 |
| 6383-110 | Cafeteria, 110x171 | 1918 | Manual Cnstr Div | | 9 b2 |
| 6399-120 | Welfare Bldg, 84x96 | 1918 | Manual Cnstr Div | | 1 c |
| 64-B | Band Stand, Cavalry & Artillery | 1911 | F.E. Warren AFB | | 7 g |
| 6403-111 | Cafeteria, 156x200 | 1918 | Manual Cnstr Div | | 9 b2 |
| 642-535 | Magazines igloo type | 1916 | Fort Chaffee | | 5 d2 |
| 652-146 | Magazine, Smokeless pwr, 32x96 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-152 | Pyrotech Plant Type D, 20x35 | 1918 | Manual Cnstr Div | | 5 b |
| 652-157 | Pyrotech Plant Type 1 & 2, 30x161 | 1918 | Manual Cnstr Div | | 5 b |
| 652-158 | Pyrotech Plant Type J & J1, 20x35 | 1918 | Manual Cnstr Div | | 5 b |
| 652-165 | Shed, Dock, 60x122 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-169 | Magazine, Type 13, 26x42 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-17 | Garage, Ordinance, 50xvar. | 1918 | Manual Cnstr Div | | 9 d1 |
| 652-173 | Primer & Fuse house #1, 32x96 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-174 | Primer & Fuse house #2, 32x96 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-179 | Magazine, Type 10, 49x208 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-180 | Magazine, Type 11, H.E. 26x42 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-188 | Storage, Vehicles # 3, 161xvar | 1918 | Manual Cnstr Div | | 10 c1 |
| 652-19 | Shop, Ordinance Repair, 30x80 | 1918 | Manual Cnstr Div | | 5 a |

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| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------------|----------------------------------|------|------------------|-------|-------|
| 652-214 | Guard House, Type 1, 20x56 | 1918 | Manual Cnstr Div | | 1 b |
| 652-31 | Magazine, Type 12, 26x42 | 1918 | Manual Cnstr Div | | 5 d2 |
| 652-41 | Storehouse, General, #1, 161x501 | 1918 | Manual Cnstr Div | | 5 d1 |
| 652-419 | Ordnance Shop w/crane | 1916 | Fort Chaffee | | 5 a |
| 652-423 | Ordnance Shop Boiler House | 1916 | Fort Chaffee | | 5 a |
| 652-43 | Storage, Vehicles, #1, 113x513 | 1918 | Manual Cnstr Div | | 10 c2 |
| 652-535 | Magazines igloo type | 1916 | Fort Chaffee | | 5 d2 |
| 652-74 | Storehouse, General, #2 | 1918 | Manual Cnstr Div | | 5 d1 |
| 652-81 | Transformer Sta. Type 1, 20x36 | 1918 | Manual Cnstr Div | | 6 a |
| 6560-140 - 142 | Med. Detachment Barracks | 1939 | Fort D.A. Russel | | 9 a2 |
| 6560-140--142 | Medical Detachment Bar | 1939 | F.E. Warren AFB | | 9 a2 |
| 6560-145 - 179 | Gymnasium | 1940 | Fort D.A. Russel | | 7 b |
| 67-B | Coal Shed | 1904 | F.E. Warren AFB | | 5 d1 |
| 67-J | Coal Shed | 1909 | F.E. Warren AFB | | 5 d1 |
| 68-C | Water Tank (tower) | 1903 | F.E. Warren AFB | | 6 b |
| 695-272 | Air Corps Hangar | 1930 | Chief of Air Cor | X | 10 a1 |
| 695-284 | Air Corps Hangar, E Design | 1931 | Chief of Air Cor | X | 10 a1 |
| | | | | | |
| 700-1127 | Officers Mess | 1916 | Fort Chaffee | | 9 b2 |
| 700-1204 | Med. Detachment Barracks | 1916 | Fort Chaffee | | 9 a2 |
| 700-1212.1 | Theatre w/Stage | 1916 | Fort Chaffee | | 7 g |
| 700-1240 | Nurses' Quarters | 1916 | Fort Chaffee | | 9 a1 |
| 700-1254 | Officers' Quarters | 1916 | Fort Chaffee | | 9 c2 |
| 700-1257 | Officers' Quarters | 1916 | Fort Chaffee | | 9 c2 |
| 700-1265R | Cold Storage | 1916 | Fort Chaffee | | 5 d1 |
| 700-1290 | Guest House | 1916 | Fort Chaffee | | 9 a1 |
| 700-1390 | Motor Repair Shop | 1916 | Fort Chaffee | | 10 c2 |
| 700-1800 | Chapel | 1916 | Fort Chaffee | | 7 c |
| 700-260 | Unit Guardhouse | 1916 | Fort Chaffee | | 1 b |
| 700-260.1 | Unit Guardhouse | 1916 | Fort Chaffee | | 1 b |
| 700-279 | Infirmiry - Large | 1940 | Fort Riley, KS | | 4 a |
| 700-285 | Lavatory | 1916 | Fort Chaffee | | 9 b1 |
| 700-297 | Exchange | 1916 | Fort Chaffee | | 7 f |
| 700-298 | Post Office, Type PO-1 | 1937 | Fort Riley, KS | X | 1 d |
| 700-310 | Recreational Bldg. | 1916 | Fort Chaffee | | 7 a |
| 700-317 | Shop - Utilities | 1937 | Fort Riley, KS | X | 5 a |
| 700-323 | Oil House 25x 49' | 1916 | Fort Chaffee | | 6 a |
| 700-348 | Physiotherapy | 1916 | Fort Chaffee | | 4 b |
| 700-374 | Motor School | 1916 | Fort Chaffee | | 10 c2 |
| 700-384 | Oil Shed | 1916 | Fort Chaffee | | 6 a |
| 700-44+A476 | Mess Patients | 1916 | Fort Chaffee | | 9 b2 |
| 700-446 | Medical Detachment Mess | 1916 | Fort Chaffee | | 9 b2 |
| 700-450 | Officers' Mess | 1916 | Fort Chaffee | | 9 b2 |
| 700-451 | Nurses' Mess | 1916 | Fort Chaffee | | 9 b2 |
| 700-461 | Storehouse | 1916 | Fort Chaffee | | 5 d1 |
| 700-462 | X-Ray Building | 1916 | Fort Chaffee | | 4 b |
| 700-463 | Ward Combination | 1916 | Fort Chaffee | | 4 b |
| 700-467 | Dental Clinic | 1916 | Fort Chaffee | | 4 a |
| 700-476 | Clinic | 1916 | Fort Chaffee | | 4 a |
| 700-484 | Clinic | 1916 | Fort Chaffee | | 4 a |
| 700-520 | Recreation Bldg. Patients | 1916 | Fort Chaffee | | 4 b |

Sorted by: STANDARDIZED PLAN NUMBER

| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------------|------------------------------|------|-----------------|-------|-------|
| 702-118 | Paint Oil & Dope House | 1940 | Marshall Field, | X | 5 d1 |
| 707-102 to 107 | Nurses Quarters, 13 nurses | 1933 | Fort McPherson | | 9 a |
| 7093-451 | Fld. Office | 1916 | Fort Chaffee | | 1 c |
| 7093-454.2 | Fld. Office Water Stg. Tank | 1916 | Fort Chaffee | | 5 d1 |
| 7093-501 | Heating Plant | 1916 | Fort Chaffee | | 6 a |
| 7093-921 | 152 Man Mess | 1916 | Fort Chaffee | | 9 b2 |
| 75 | Cavalry Barracks | 1902 | Fort Riley, KS | X | 9 a2 |
| 75-G | Double barracks, 39x150 | 1904 | Fort McPherson | | 9 a2 |
| 75-M | Cavalry Barracks | 1910 | F.E. Warren AFB | | 9 a2 |
| 700+A42-374 | Motor Repair Shop | 1916 | Fort Chaffee | | 10 c2 |
| 700-1775 | Service Club | 1916 | Fort Chaffee | | 7 d |
| | | | | | |
| 800-1000 | C & E Repair Shop | 1916 | Fort Chaffee | | 5 a |
| 800-1026 | Grease Rack & Insp. Rack | 1916 | Fort Chaffee | | 10 c2 |
| 800-1029 | Laundry | 1916 | Fort Chaffee | | 5 c2 |
| 800-1226 | Cold Storage Bldg | ? | Fort Riley, KS | X | 5 d1 |
| 800-1412 | Post Exchange | 1916 | Fort Chaffee | | 7 f |
| 800-1417 | Administration Bldg. (Hosp.) | 1916 | Fort Chaffee | | 1 c |
| 800-1429 | Infirmary | 1916 | Fort Chaffee | | 4 a |
| 800-1445 | Dental Clinic | 1916 | Fort Chaffee | | 4 a |
| 800-1454 | Morgue | 1916 | Fort Chaffee | | 4 b |
| 800-1513 | Clinic | 1916 | Fort Chaffee | | 4 a |
| 800-1619 | Laundry Steam Plant | 1916 | Fort Chaffee | | 5 c2 |
| 800-201 | Station QM Office Boiler Hs. | 1916 | Fort Chaffee | | 6 a |
| 800-204 | Administration Bldg. | 1916 | Fort Chaffee | | 1 c |
| 800-210 | Armament | 1916 | Fort Chaffee | | 5 d1 |
| 800-214 | Sta. HQ. Office | 1916 | Fort Chaffee | | 1 c |
| 800-217 | Post Office | 1916 | Fort Chaffee | | 1 d |
| 800-219 | Sm Finance. Bldg. | 1916 | Fort Chaffee | | 1 c |
| 800-306 | Officers Quarters | 1916 | Fort Chaffee | | 9 c2 |
| 800-307 | Officers' Quarters | 1916 | Fort Chaffee | | 9 c2 |
| 800-443 | Prisoner's Barracks | 1916 | Fort Chaffee | | 9 a2 |
| 800-451 | Nurses Recreation Room | 1916 | Fort Chaffee | | 7 a |
| 800-459 | Med. Detachment Recr. | 1916 | Fort Chaffee | | 7 a |
| 800-460 | Recreation Bldg. | 1916 | Fort Chaffee | | 7 a |
| 800-465 | Sports Arena | 1916 | Fort Chaffee | | 7 b |
| 800-601 | Gas Sta. & Pump House | 1916 | Fort Chaffee | | 10 c1 |
| 800-603 | Q.M. Utility Shop | 1916 | Fort Chaffee | | 5 a |
| 800-606 | Motor Repair Shop | 1916 | Fort Chaffee | | 10 c2 |
| 800-607 | Rm. & Storage Bays | 1916 | Fort Chaffee | | 5 d1 |
| 800-652 | Salvage Warehouse | 1916 | Fort Chaffee | | 5 d1 |
| 800-654 | Warehouse (Insulated) | 1916 | Fort Chaffee | | 5 d1 |
| 800-661 | Dispatching House | 1916 | Fort Chaffee | | 10 c2 |
| 800-663 | Storehouse | 1916 | Fort Chaffee | | 5 d1 |
| 800-664 | Storehouse | 1916 | Fort Chaffee | | 5 d1 |
| 800-682 | Bakery | 1916 | Fort Chaffee | | 5 c1 |
| 800-777 | Ice Storage | 1916 | Fort Chaffee | | 5 d1 |
| 800-800 | Fire Station | 1916 | Fort Chaffee | | 1 a |
| 800-809 | Officers' Club | 1916 | Fort Chaffee | | 7 d |
| 800-847 | 112 Man Mess | 1916 | Fort Chaffee | | 9 b2 |
| 800-849 | E.M. Mess | 1916 | Fort Chaffee | | 9 b2 |

Sorted by: STANDARDIZED PLAN NUMBER

| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|----------------|----------------------------------|------|-----------------|-------|-------|
| 800-851 | E.M. Mess (M-248 less one 8'bay) | 1916 | Fort Chaffee | | 9 b2 |
| 800-905 | Radio Range Bldg. | 1916 | Fort Chaffee | | 2 a |
| 800-907 | Tel. & Tel. Bldg. | 1916 | Fort Chaffee | | 2 b |
| 800-A101210 | Med. Detachment Admin. Bldg. | 1916 | Fort Chaffee | | 1 c |
| 800.-1424 | Detention Ward | 1916 | Fort Chaffee | | 4 b |
| 82-D | Double Set N.C.S.O. Quarters | 1885 | F.E. Warren AFB | | 9 c1 |
| 82-K | N.C.O. Quarters | 1909 | F.E. Warren AFB | | 9 c1 |
| 82-N | Four Set Civillian's Quarters | 1909 | Fort Riley, KS | X | 9 c1 |
| 82-P | Civillian Employees Quarters | 1911 | F.E. Warren AFB | | 9 c1 |
| 8682-D | Double NCO Quarters | 1931 | F.E. Warren AFB | | 9 c1 |
| | | | | | |
| 9 | Guard House, 60x85 | 1891 | Fort McPherson | | 1 b |
| 90 | Double Set Officer's Quarters | 1905 | F.E. Warren AFB | | 9 c2 |
| 93-K | Dbl Mess Hall & Kit, 140x42, | 1906 | Fort McPherson | | 9 b2 |
| 95-A | C.O.'s Quarters | 1903 | F.E. Warren AFB | | 9 c2 |
| 97-A | Cavalry Drill Hall | 1907 | F.E. Warren AFB | | 3 b |
| 98-E | Fire Station | 1909 | F.E. Warren AFB | | 1 a |
| 98-G | Fire Station | 1909 | F.E. Warren AFB | | 1 a |
| | | | | | |
| A-13-1 | Incinerator | 1938 | Fort Riley, KS | | 6 c |
| A-13-9 | Artillery Guard House | 1908 | Fort Riley, KS | X | 1 b |
| A-14-12 | Stable - School of Equitation | 1939 | Fort Riley, KS | X | 10 b1 |
| A-14-16 | Lab Building for Vet Hosp | 1907 | Fort Riley, KS | X | 8 a |
| A-14-4 | Stable | 1938 | Fort Riley, KS | | 10 b1 |
| A-19-1 | Commissary Store House | 1905 | Fort Riley, KS | X | 5 d1 |
| A-19-14 | Barracks | 1938 | Fort Riley, KS | | 9 a2 |
| A-19-4 | Dispatcher's Office | 1939 | Fort Riley, KS | | 10 c2 |
| A-2-17 | Quarters for Packers | N.D. | Fort Riley, KS | X | 9 a2 |
| A-2-3 | Quarters, no designation | 1939 | Fort Riley, KS | X | 9 c1 |
| A-20-12 | Revised Plan of Engineer Garage | 1937 | Fort Riley, KS | X | 9 d1 |
| A-20-7 | NCO Garages | 1940 | Fort Riley, KS | X | 9 d1 |
| A-4-7 | Quarters, no designation | 1939 | Fort Riley, KS | X | 9 c2 |
| A-4-9 | Quarters, no designation | 1938 | Fort Riley, KS | X | 9 c2 |
| A-5-21 | Q.M. Gas Station | 1932 | Fort Riley, KS | X | 10 c1 |
| | | | | | |
| A-8-12 | Packing & Crating shop | 1938 | Fort Riley, KS | X | 5 a |
| | | | | | |
| Butler Mfg Co | Airplane Hangar | N.D. | Fort Riley, KS | X | 10 a1 |
| | | | | | |
| E.B. Williston | Battery Stables | N.D. | Fort Riley, KS | X | 10 b1 |
| | | | | | |
| Geo. E. Pond | Administration Building | N.D. | Fort Riley, KS | | 1 c |
| Geo. E. Pond | Proposed Administration Building | N.D. | Fort Riley, KS | | 1 c |
| Geo. E. Pond | Cavalry Stables | N.D. | Fort Riley, KS | X | 10 b1 |
| Geo. E. Pond | Dispensary | N.D. | Fort Riley, KS | X | 4 a |
| Geo. E. Pond | Battery Workshops | N.D. | Fort Riley, KS | X | 5 a |
| Geo. E. Pond | Ordnance Store House | N.D. | Fort Riley, KS | X | 5 d2 |
| Geo. E. Pond | Post Exchange & Gymnasium | N.D. | Fort Riley, KS | X | 7 a |
| Geo. E. Pond | Artillery Barracks, 80 Men | 1896 | Fort Riley, KS | X | 9 a2 |
| Geo. E. Pond | Cavalry Barracks | N.D. | Fort Riley, KS | X | 9 a2 |
| Geo. E. Pond | Outhouse for Cavalry Barracks | N.D. | Fort Riley, KS | X | 9 b1 |

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| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|---------------|-------------------------------------|------|------------------|-------|-------|
| Geo. E. Pond | Frame Quarters for NCO | 1928 | Fort Riley, KS | X | 9 c1 |
| Geo. E. Pond | Non-Commissioned Officers Quarters | N.D. | Fort Riley, KS | X | 9 c1 |
| Geo. E. Pond | Quarters for Steam Heating Engineer | N.D. | Fort Riley, KS | X | 9 c1 |
| Geo. E. Pond | Proposed Field Officers Quarters | N.D. | Fort Riley, KS | X | 9 c2 |
| Geo. E. Pond | Quarters for Commanding Officer | N.D. | Fort Riley, KS | X | 9 c2 |
| George Ruhlen | Cavalry Stable Guard Building | 1896 | Fort Riley, KS | X | 1 b |
| I-620-B | Crematory | 1908 | Fort D.A. Russel | | 6 c |
| LA-1 | Road Cross Section, Typical | 1918 | Manual Cnstr Div | X | 10c2 |
| LA-2 | Road Cross Sections, Typical | 1918 | Manual Cnstr Div | X | 10c2 |
| Post | Hose House, 30x50 | 1898 | Fort McPherson | | 6 b |
| RR 9 | Trestle, Coal | 1918 | Fort Lewis, WA | X | 10 d1 |
| RR-1 | Standard Railway Trestle | 1918 | Manual Cnstr Div | X | 10 d1 |
| RR-2 | Std. Railway Coal Trestle | 1918 | Manual Cnstr Div | X | 10 d1 |
| RR-3 | Std. Timber Coal Pocket | 1918 | Manual Cnstr Div | X | 10 d1 |
| RR-4 | Turnout & Crossover, Railways | 1918 | Manual Cnstr Div | X | 10 d2 |
| RR-5 | Std. Trestle Bumper, Railways | 1918 | Manual Cnstr Div | X | 10 d1 |
| RR-6 | Roadbed Sectons, Railways | 1918 | Manual Cnstr Div | X | 10 d2 |
| RR-7 | Terminal General Plan | 1918 | Manual Cnstr Div | X | 11a |
| RR-8 | Terminals General Plans | 1918 | Manual Cnstr Div | X | 11a |
| SB 1 | Typical 1 Story Building | 1918 | Manual Cnstr Div | X | 11a |
| SB 10 | Typ Em'gncy Str'g Whse Toilet Rms | 1918 | Manual Cnstr Div | X | 5 d1 |
| SB 11 | Elec Distrib Syst, Street Lighting | 1918 | Manual Cnstr Div | X | 6a |
| SB 12 | Elec Distrib Syst, 2ndary Lines | 1918 | Manual Cnstr Div | X | 6a |
| SB 13 | Typ Hospital Kitchen Layouts | 1918 | Manual Cnstr Div | X | 9 b2 |
| SB 14 | Hospital Typ Kitchen Layouts | 1918 | Manual Cnstr Div | X | 4 b |
| SB 15 | Typical Mess Buildings | 1918 | Manual Cnstr Div | X | 9 b2 |
| SB 16 | Store House, Divisional, 60x168 | 1918 | Manual Cnstr Div | X | 5 d1 |
| SB 17 | Stable - closed, 29xvar. | 1918 | Manual Cnstr Div | X | 10 b1 |
| SB 18 | Det Hut & Kitchen, Det & Qrntn Camp | 1918 | Manual Cnstr Div | X | 9 b2 |
| SB 19 | Recruit Exam. Bldg / Shop | 1918 | Manual Cnstr Div | X | 4 a |
| SB 2 | Typical 2 Story Building | 1918 | Manual Cnstr Div | X | 11a |
| SB 20 | Standard Laundry, 10-20,000 men | 1918 | Manual Cnstr Div | | 5 c2 |
| SB 21 | Delousing Plant, 54x120 | 1918 | Manual Cnstr Div | X | 4 a |
| SB 22 | Dormitories w/Mess | 1918 | Manual Cnstr Div | X | 9 a2 |
| SB 23 | Magazine, Type 1 & Type 2 | 1918 | Manual Cnstr Div | X | 5 d2 |
| SB 24 | Auditorium, 200x300 | 1918 | Manual Cnstr Div | X | 7 a |
| SB 25 | Emg'ncy Whse C'prtmt & Group Plan | 1918 | Manual Cnstr Div | X | 5 d1 |
| SB 26 | Typ. Em'gncy Str'g Whse Admin Bldg | 1918 | Manual Cnstr Div | X | 5 d1 |
| SB 27 | Emg'ncy Whse, Open Shed | 1918 | Manual Cnstr Div | X | 5 d1 |
| SB 28 | Refrigerating & Ice Making Plant | 1918 | Manual Cnstr Div | X | 5 b |
| SB 3 | Typical 2 Sty Building, Details | 1918 | Manual Cnstr Div | X | 11a |
| SB 4 | Typical Barracks, 66 Men | 1918 | Manual Cnstr Div | X | 9 a2 |
| SB 5 | Typical 2 Story Officers Qtrs | 1918 | Manual Cnstr Div | X | 9 c2 |
| SB 6 | Typical Lavatories | 1918 | Manual Cnstr Div | X | 9 b1 |
| SB 7 | Typical Lavatories Details | 1918 | Manual Cnstr Div | X | 9 b1 |

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| STD_PLAN | BUILDING | DATE | INSTALLATION | DRWNG | TYPE |
|--------------|-------------------------------------|------|------------------|-------|-------|
| SB 8 | Standard Incinerator | 1918 | Manual Cnstr Div | X | 6 c |
| SB 9 | Standard Steel & Wood Hangars | 1919 | Manual Cnstr Div | X | 10 a1 |
| | | | | | |
| SGO-A | Layout: Hospital | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-A1 | Layout: Head House | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-B | Typical Hosp Admin Bldg | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-F | Typical Hosp Laboratory Bldg | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-G | Typical Hosp Operating Pavillion | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-I1 & I32 | Typical Hosp General Mess & Kitchen | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-I28 | Typical Hosp General Mess & Kitchen | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-J | Typical Hosp Receiving Ward | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-K1 | Typical Hosp Single Wards | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-K34 | Typical Hosp Single Wards | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-K35 | Typical Hosp Single Wards | 1918 | Manual Cnstr Div | X | 4 b |
| SGO-S & T | Typ. Hosp Phys Thrpy & Amusmnt Hall | 1918 | Manual Cnstr Div | X | 4 b |
| SPL 3-368 | Double Quarters for Officer | 1902 | Fort Riley, KS | X | 9 c2 |
| SPL 3-381 | Officers Quarters | 1902 | Fort Riley, KS | | 9 c2 |
| | | | | | |
| Unknown | Hospital Sergant's Quarters | 1905 | F.E. Warren AFB | | 9 c1 |
| | | | | | |

Sorted by: INSTALLATION

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|------------------------------------|------|--------------|-------|-------|
| Chief of Air Cor | Air Corps Hangar | 1930 | 695-272 | X | 10 |
| Chief of Air Cor | Air Corps Hangar, E Design | 1931 | 695-284 | X | 10 a1 |
| | | | | | |
| Chief of Air Ser | Standard All Steel Airplane Hangar | ? | 6342-158 ? | X | 10 a1 |
| | | | | | |
| F.E. Warren AFB | Officers Quarters | 1888 | (Illegible)2 | | 9 c2 |
| F.E. Warren AFB | Post Bakery | 1903 | 1-1180 | | 5 c1 |
| F.E. Warren AFB | Crematory | 1908 | 1-620-B | | 6 c |
| F.E. Warren AFB | Post Headquarters | 1909 | 1-729 S.P.S. | | 1 c |
| F.E. Warren AFB | Hay Shed | 1926 | 102-F | | 10 b1 |
| F.E. Warren AFB | Hay Shed | 1909 | 102-G | | 10 b1 |
| F.E. Warren AFB | Light Battery Gun Shed | 1905 | 104 | | 5 d2 |
| F.E. Warren AFB | Light Battery Gun Shed | 1908 | 104-F | | 5 d2 |
| F.E. Warren AFB | Administration Building | 1911 | 112-F | | 1 c |
| F.E. Warren AFB | Double Set Officer's Quarters | 1905 | 120-C | | 9 c2 |
| F.E. Warren AFB | Double Set Officers Quarters | 1905 | 120-D | | 9 c2 |
| F.E. Warren AFB | Double Lieutenants Quarters | 1909 | 120-F | | 9 c2 |
| F.E. Warren AFB | Officers Quarters | 1910 | 120-H | | 9 c2 |
| F.E. Warren AFB | Artillery Exchange | 1910 | 122-B | | 7 f |
| F.E. Warren AFB | Cavalry Post Exchange | 1910 | 122-b | | 7 f |
| F.E. Warren AFB | Admin Building (Artillery) | 1911 | 122-F | | 1 c |
| F.E. Warren AFB | Company Ofcr 4 Set Apt | 1931 | 129 | | 9 c2 |
| F.E. Warren AFB | Pump House (& N.C.O. Quarters) | 1905 | 132-E | | 6 b |
| F.E. Warren AFB | Cavalry Stable | 1906 | 139 | | 10 b1 |
| F.E. Warren AFB | Artillery Stables | 1904 | 139-C | | 10 |
| F.E. Warren AFB | Artillery or Infantry Stables | 1908 | 139-K | | 10 b1 |
| F.E. Warren AFB | Stable for Inf. & Officers Mounts | 1908 | 139-Q | | 10 b1 |
| F.E. Warren AFB | Double Officers Quarters | 1906 | 142-A | | 9 c2 |
| F.E. Warren AFB | Double Officers Quarters | 1909 | 142-B | | 9 c2 |
| F.E. Warren AFB | Officers Quarters | 1910 | 142-D | | 9 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1905 | 145 | | 9 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1909 | 145-D | | 9 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1910 | 145-F | | 9 c2 |
| F.E. Warren AFB | Artillery Barracks | 1904 | 150 | | 9 a2 |
| F.E. Warren AFB | Nurses Quarters | 1906 | 152-E | | 9 a1 |
| F.E. Warren AFB | Bachelor Officers Quarters | 1908 | 152-G | | 9 a1 |
| F.E. Warren AFB | Bachelor Officers Quarters | 1910 | 152-L | | 9 a1 |
| F.E. Warren AFB | Post Exchange | 1905 | 158 | | 7 f |
| F.E. Warren AFB | Veterinary Hospital | 1908 | 166 | | 10 b1 |
| F.E. Warren AFB | Post & Telegraph Office | 1907 | 177 | | 1 d |
| F.E. Warren AFB | Artillery Barracks | 1908 | 181 | | 9 a2 |
| F.E. Warren AFB | Commissary Building | 1910 | 186 | | 7 f |
| F.E. Warren AFB | Cavalry Granary | 1909 | 193-A | | 5 d1 |
| F.E. Warren AFB | Ice House | 1910 | 196-A | | 6 b |
| F.E. Warren AFB | Q.M. Store House, Artillery | 1909 | 198 | | 5 d2 |
| F.E. Warren AFB | Guard House | 1911 | 206 | | 1 b |
| F.E. Warren AFB | Artillery Gun Shed | 1909 | 209 | | 5 d2 |
| F.E. Warren AFB | Laundry | 1911 | 234-B | | 5 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1911 | 235-A | | 9 c |
| F.E. Warren AFB | 4 Set Officers Quarters | 1911 | 237-B | | 9 c2 |
| F.E. Warren AFB | Laundry | 1911 | 243-B | | 5 c2 |

Sorted by: INSTALLATION

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|-----------------|-------------------------------------|------|-----------------|-------|-------|
| F.E. Warren AFB | Dispensary (Cavalry) | 1909 | 247 | | 4 a |
| F.E. Warren AFB | Teamsters Quarters | 1910 | 258 | | 9 a2 |
| F.E. Warren AFB | Ammunition Storehouse | 1910 | 262 | | 5 d2 |
| F.E. Warren AFB | Powder Magazine | 1910 | 263 | | 5 d2 |
| F.E. Warren AFB | Hospital Corps Barracks | 1912 | 276 | | 9 a2 |
| F.E. Warren AFB | Post Guard House | 1901 | 30-C | | 1 b |
| F.E. Warren AFB | Stable Guard House, DBL Building | 1905 | 39-C | X | 10 b1 |
| F.E. Warren AFB | Stable Guard House & Shops | 1909 | 39-G | | 10 b1 |
| F.E. Warren AFB | Stable Guard House | 1909 | 39-L | | 10 b1 |
| F.E. Warren AFB | Stable Guard & Shops | 1909 | 39-N | | 10 b1 |
| F.E. Warren AFB | Stable Guard & shops | 1911 | 39-Q | | 10 b1 |
| F.E. Warren AFB | Incinerator - trash only | 1939 | 414-43-228 | | 6 c |
| F.E. Warren AFB | Q.M. Forage Storehouse | 1908 | 53-A | | 5 d1 |
| F.E. Warren AFB | Q.M. Barracks for M.T. | 1900 | 53-D | | 9 a2 |
| F.E. Warren AFB | Artillery Workshop | 1904 | 59-K | | 5 a |
| F.E. Warren AFB | Utility Office | 1931 | 59-U | | 6 b |
| F.E. Warren AFB | Artillery Shop | 1908 | 59-V | | 5 a |
| F.E. Warren AFB | Wagon Shed | 1906 | 60-G | | 10 b1 |
| F.E. Warren AFB | Vehicle Shed | 1910 | 60-H | | 10 c2 |
| F.E. Warren AFB | War Dept Theatre | 1939 | 608-360 to 366 | | 7 g |
| F.E. Warren AFB | Cavalry Band Barracks | 1909 | 61-F | | 9 a2 |
| F.E. Warren AFB | Med Dtchmnt Bar (and 6560-140--142) | 1939 | 621-1325--1346 | | 9 a2 |
| F.E. Warren AFB | Detachment Barracks | 1931 | 621-850 & 851 | | 9 a2 |
| F.E. Warren AFB | Company Officer's Quarters | 1932 | 625-1486 & 87 | | 9 c2 |
| F.E. Warren AFB | Double NCO Quarters, type B | 1933 | 625-2510 & 2518 | | 9 c1 |
| F.E. Warren AFB | Double NCO Quarters, type A | 1933 | 625-2510 - 2511 | | 9 c1 |
| F.E. Warren AFB | Band Stand, Cavalry & Artillery | 1911 | 64-B | | 7 g |
| F.E. Warren AFB | Medical Detachment Bar | 1939 | 6560-140--142 | | 9 a2 |
| F.E. Warren AFB | Coal Shed | 1904 | 67-B | | 5 d1 |
| F.E. Warren AFB | Coal Shed | 1909 | 67-J | | 5 d1 |
| F.E. Warren AFB | Water Tank (tower) | 1903 | 68-C | | 6 b |
| F.E. Warren AFB | Cavalry Barracks | 1910 | 75-M | | 9 a2 |
| F.E. Warren AFB | Double Set N.C.S.O. Quarters | 1885 | 82-D | | 9 c1 |
| F.E. Warren AFB | N.C.O. Quarters | 1909 | 82-K | | 9 c1 |
| F.E. Warren AFB | Civillian Employees Quarters | 1911 | 82-P | | 9 c1 |
| F.E. Warren AFB | Double NCO Quarters | 1931 | 8682-D | | 9 c1 |
| F.E. Warren AFB | Double Set Officer's Quarters | 1905 | 90 | | 9 c2 |
| F.E. Warren AFB | C.O.'s Quarters | 1903 | 95-A | | 9 c2 |
| F.E. Warren AFB | Cavalry Drill Hall | 1907 | 97-A | | 3 b |
| F.E. Warren AFB | Fire Station | 1909 | 98-E | | 1 a |
| F.E. Warren AFB | Fire Station | 1909 | 98-G | | 1 a |
| F.E. Warren AFB | Hospital Sergeant's Quarters | 1905 | Unknown | | 9 c1 |
| | | | | | |
| Fort Chaffee | Incinerator | 1916 | 414/43/330 | | 6 c |
| Fort Chaffee | Magazines igloo type | 1916 | 642-535 | | 5 d2 |
| Fort Chaffee | Ordnance Shop w/crane | 1916 | 652-419 | | 5 a |
| Fort Chaffee | Ordnance Shop Boiler House | 1916 | 652-423 | | 5 a |
| Fort Chaffee | Magazines igloo type | 1916 | 652-535 | | 5 d2 |
| Fort Chaffee | Officers Mess | 1916 | 700-1127 | | 9 b2 |
| Fort Chaffee | Med. Detachment Barracks | 1916 | 700-1204 | | 9 a2 |
| Fort Chaffee | Theatre w/Stage | 1916 | 700-1212.1 | | 7 g |
| Fort Chaffee | Nurses' Quarters | 1916 | 700-1240 | | 9 a1 |

Sorted by: INSTALLATION

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|--------------|------------------------------|------|-------------|-------|-------|
| Fort Chaffee | Officers' Quarters | 1916 | 700-1254 | | 9 c2 |
| Fort Chaffee | Officers' Quarters | 1916 | 700-1257 | | 9 c2 |
| Fort Chaffee | Cold Storage | 1916 | 700-1265R | | 5 d1 |
| Fort Chaffee | Guest House | 1916 | 700-1290 | | 9 a1 |
| Fort Chaffee | Motor Repair Shop | 1916 | 700-1390 | | 10 c2 |
| Fort Chaffee | Chapel | 1916 | 700-1800 | | 7 c |
| Fort Chaffee | Unit Guardhouse | 1916 | 700-260 | | 1 b |
| Fort Chaffee | Unit Guardhouse | 1916 | 700-260.1 | | 1 b |
| Fort Chaffee | Lavatory | 1916 | 700-285 | | 9 b1 |
| Fort Chaffee | Exchange | 1916 | 700-297 | | 7 f |
| Fort Chaffee | Recreational Bldg. | 1916 | 700-310 | | 7 a |
| Fort Chaffee | Oil House 25x 49' | 1916 | 700-323 | | 6 a |
| Fort Chaffee | Physiotherapy | 1916 | 700-348 | | 4 b |
| Fort Chaffee | Motor School | 1916 | 700-374 | | 10 c2 |
| Fort Chaffee | Oil Shed | 1916 | 700-384 | | 6 a |
| Fort Chaffee | Mess Patients | 1916 | 700-44+A476 | | 9 b2 |
| Fort Chaffee | Medical Detachment Mess | 1916 | 700-446 | | 9 b2 |
| Fort Chaffee | Officers' Mess | 1916 | 700-450 | | 9 b2 |
| Fort Chaffee | Nurses' Mess | 1916 | 700-451 | | 9 b2 |
| Fort Chaffee | Storehouse | 1916 | 700-461 | | 5 d1 |
| Fort Chaffee | X-Ray Building | 1916 | 700-462 | | 4 b |
| Fort Chaffee | Ward Combination | 1916 | 700-463 | | 4 b |
| Fort Chaffee | Dental Clinic | 1916 | 700-467 | | 4 a |
| Fort Chaffee | Clinic | 1916 | 700-476 | | 4 a |
| Fort Chaffee | Clinic | 1916 | 700-484 | | 4 a |
| Fort Chaffee | Recreation Bldg. Patients | 1916 | 700-520 | | 4 a |
| Fort Chaffee | Fld. Office | 1916 | 7093-451 | | 1 c |
| Fort Chaffee | Fld. Office Water Stg. Tank | 1916 | 7093-454.2 | | 5 d1 |
| Fort Chaffee | Heating Plant | 1916 | 7093-501 | | 6 a |
| Fort Chaffee | 152 Man Mess | 1916 | 7093-921 | | 9 b2 |
| Fort Chaffee | Motor Repair Shop | 1916 | 700+A42-374 | | 10 c2 |
| Fort Chaffee | Service Club | 1916 | 700-1775 | | 7 d |
| Fort Chaffee | C & E Repair Shop | 1916 | 800-1000 | | 5 a |
| Fort Chaffee | Grease Rack & Insp. Rack | 1916 | 800-1026 | | 10 c2 |
| Fort Chaffee | Laundry | 1916 | 800-1029 | | 5 c2 |
| Fort Chaffee | Post Exchange | 1916 | 800-1412 | | 7 f |
| Fort Chaffee | Administration Bldg. (Hosp.) | 1916 | 800-1417 | | 1 c |
| Fort Chaffee | Infirmery | 1916 | 800-1429 | | 4 a |
| Fort Chaffee | Dental Clinic | 1916 | 800-1445 | | 4 a |
| Fort Chaffee | Morgue | 1916 | 800-1454 | | 4 b |
| Fort Chaffee | Clinic | 1916 | 800-1513 | | 4 a |
| Fort Chaffee | Laundry Steam Plant | 1916 | 800-1619 | | 5 c2 |
| Fort Chaffee | Station QM Office Boiler Hs. | 1916 | 800-201 | | 6 a |
| Fort Chaffee | Administration Bldg. | 1916 | 800-204 | | 1 c |
| Fort Chaffee | Armament | 1916 | 800-210 | | 5 d2 |
| Fort Chaffee | Sta. HQ. Office | 1916 | 800-214 | | 1 c |
| Fort Chaffee | Post Office | 1916 | 800-217 | | 1 d |
| Fort Chaffee | Sm Finance. Bldg. | 1916 | 800-219 | | 1 c |
| Fort Chaffee | Officers Quarters | 1916 | 800-306 | | 9 c2 |
| Fort Chaffee | Officers' Quarters | 1916 | 800-307 | | 9 c2 |
| Fort Chaffee | Prisoner's Barracks | 1916 | 800-443 | | 9 a2 |
| Fort Chaffee | Nurses Recreation Room | 1916 | 800-451 | | 7 a |

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| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|----------------------------------|------|-----------------|-------|-------|
| Fort Chaffee | Med. Detachment Recr. | 1916 | 800-459 | | 7 a |
| Fort Chaffee | Recreation Bldg. | 1916 | 800-460 | | 7 a |
| Fort Chaffee | Sports Arena | 1916 | 800-465 | | 7 b |
| Fort Chaffee | Gas Sta. & Pump House | 1916 | 800-601 | | 10 c1 |
| Fort Chaffee | Q.M. Utility Shop | 1916 | 800-603 | | 5 a |
| Fort Chaffee | Motor Repair Shop | 1916 | 800-606 | | 10 c2 |
| Fort Chaffee | Rm. & Storage Bays | 1916 | 800-607 | | 5 d1 |
| Fort Chaffee | Salvage Warehouse | 1916 | 800-652 | | 5 d1 |
| Fort Chaffee | Warehouse (Insulated) | 1916 | 800-654 | | 5 d1 |
| Fort Chaffee | Dispatching House | 1916 | 800-661 | | 10 c2 |
| Fort Chaffee | Storehouse | 1916 | 800-663 | | 5 d1 |
| Fort Chaffee | Storehouse | 1916 | 800-664 | | 5 d1 |
| Fort Chaffee | Bakery | 1916 | 800-682 | | 5 c1 |
| Fort Chaffee | Ice Storage | 1916 | 800-777 | | 5 d1 |
| Fort Chaffee | Fire Station | 1916 | 800-800 | | 1 a |
| Fort Chaffee | Officers' Club | 1916 | 800-809 | | 7 d |
| Fort Chaffee | 112 Man Mess | 1916 | 800-847 | | 9 b2 |
| Fort Chaffee | E.M. Mess | 1916 | 800-849 | | 9 b2 |
| Fort Chaffee | E.M. Mess (M-248 less one 8'bay) | 1916 | 800-851 | | 9 b2 |
| Fort Chaffee | Radio Range Bldg. | 1916 | 800-905 | | 2 a |
| Fort Chaffee | Tel. & TeL Bldg. | 1916 | 800-907 | | 2 b |
| Fort Chaffee | Med. Detachment Admin. Bldg. | 1916 | 800-A101210 | | 1 c |
| Fort Chaffee | Detention Ward | 1916 | 800.-1424 | | 4 b |
| | | | | | |
| Fort D.A. Russel | Hosp Corps Bar. | 1908 | 1-729-S.P.S. | | 9 a2 |
| Fort D.A. Russel | Hospital Corps Barracks | 1912 | 2-76 | | 9 a2 |
| Fort D.A. Russel | Field Officers Qtrs | 1909 | 215 | | 9 c2 |
| Fort D.A. Russel | 4-Set Officers Qtrs | 1911 | 267-B | | 9 c2 |
| Fort D.A. Russel | War Dept Theater | 1939 | 608-360 - 366 | | 7 g |
| Fort D.A. Russel | Company Officers Qtrs | N.D. | 625-1486 & 1487 | | 9 c2 |
| Fort D.A. Russel | Double NCO Quarters | 1931 | 625-1543 & 1544 | | 9 c1 |
| Fort D.A. Russel | Double NCO Quarters | 1933 | 625-2510 & 2511 | | 9 c1 |
| Fort D.A. Russel | Med. Detachment Barracks | 1939 | 6560-140 - 142 | | 9 a2 |
| Fort D.A. Russel | Gymnasium | 1940 | 6560-145 - 179 | | 7 b |
| Fort D.A. Russel | Crematory | 1908 | I-620-B | | 6 c |
| | | | | | |
| Fort Lewis, WA | Magazine, Post Ordnance | 1934 | 19-2-70 | X | 5 d2 |
| Fort Lewis, WA | Trestle, Coal | 1918 | RR 9 | X | 10 d1 |
| | | | | | |
| Fort McPherson | Ordnance Storehouse, 30x50 | 1897 | 103-A | | 5 d1 |
| Fort McPherson | Subsistence Storehouse | 1897 | 106 | | 5 d1 |
| Fort McPherson | Boiler/Pump House | 1905 | 132-H | | 6 a |
| Fort McPherson | Quartermaster Stable, 129x67 | 1908 | 139-H | | 10 b1 |
| Fort McPherson | Quartermaster Stable, 145x67 | 1910 | 139-L | | 10 b1 |
| Fort McPherson | BOQ, 33x140, 33x45, 12x33 | 1904 | 152-B | X | 9 a1 |
| Fort McPherson | Electric Sub Station, 10x12 | 1909 | 4-936 | | 6 a |
| Fort McPherson | Mess Hall, 144x177, 800 men | 1893 | 42 | | 9 b2 |
| Fort McPherson | Magazine, 12x15, brick | 1893 | 46 | | 5 d2 |
| Fort McPherson | War Dept Theatre, 85x49 | 1939 | 6217-105 to 107 | | 7 g |
| Fort McPherson | Film Vault, size illegible | ? | 6217-127? | | 5 d1 |
| Fort McPherson | Clinic 28 beds, 34x130, 9x30 | 1930 | 6217-36 to 45 | | 5 d1 |
| Fort McPherson | Kitchen & Mess, 24x100, 31x33 | 1930 | 6217-47 to 57 | | 9 b2 |

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| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|----------------|-------------------------------------|------|-----------------|-------|-------|
| Fort McPherson | Dental Clnic & Cont. Ward, 34x130 | 1939 | 6217-65, 74, 76 | | 4 a |
| Fort McPherson | Nurses Quarters, 13 nurses | 1933 | 707-102 to 107 | | 9 |
| Fort McPherson | Double barracks, 39x150 | 1904 | 75-G | | 9 a2 |
| Fort McPherson | Guard House, 60x85 | 1891 | 9 | | 1 b |
| Fort McPherson | DbI Mess Hall & Kit, 140x42, | 1906 | 93-K | | 9 b2 |
| Fort McPherson | Hose House, 30x50 | 1898 | Post | | 6 b |
| | | | | | |
| Fort Riley, KS | Quarters for Two Lieutanants | 1907 | 120-H | X | 9 c2 |
| Fort Riley, KS | Stables | 1938 | 14-7-illegible | X | 10 b1 |
| Fort Riley, KS | Stables | 1938 | 14-9-illegible | X | 10 b1 |
| Fort Riley, KS | Quarters for Field Officer | 1905 | 145-D | X | 9 c2 |
| Fort Riley, KS | B.O.Q | 1902 | 152 | X | 9 a1 |
| Fort Riley, KS | Post Exchange & Gymnasium | 1906 | 174 | X | 7 a |
| Fort Riley, KS | B.O.Q. | N.D. | 188 | X | 9 a1 |
| Fort Riley, KS | Granary | 1907 | 193 | X | 5 d1 |
| Fort Riley, KS | Officers Quarters 4 Officers | 1909 | 237-A | X | 9 c2 |
| Fort Riley, KS | Quarters for Civilian Employees | 1909 | 258 | X | 9 c1 |
| Fort Riley, KS | Stable Guard House | lleg | 39-C | | 10 b1 |
| Fort Riley, KS | Shop Building | 1916 | 407 | X | 5 a |
| Fort Riley, KS | Sewage Treat. Plnt, Cntrl Hse | 1942 | 408-204 | X | 6 b |
| Fort Riley, KS | Bakery | 1902 | 49H | X | 5 c1 |
| Fort Riley, KS | Band Barracks | 1907 | 61-F | X | 9 a2 |
| Fort Riley, KS | Admin Bldg? No Title | N.D. | 6139-307 | X | 1 c |
| Fort Riley, KS | Academic Building | 1938 | 6139-310 | X | 3 a |
| Fort Riley, KS | Field Officers Quarters | 1932 | 625-1341 | X | 9 c2 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, brick | 1930 | 625-1444 | | 9 |
| Fort Riley, KS | Double NCO Quarters 2 sty, brick | 1930 | 625-1530 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, w sty, brick | 1930 | 625-1543 | | 9 c1 |
| Fort Riley, KS | NCO Quarters - type c - brick | 1932 | 625-1556 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, stone | 1938 | 625-3570-3 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, brick | 1935 | 625-3571 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 story, stone | 1938 | 625-3571-3 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, brick | 1935 | 625-3572 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 story stone | 1938 | 625-3572-3 | X | 9 c1 |
| Fort Riley, KS | NCO Double Quarters | 1930 | 625-541 | X | 9 c1 |
| Fort Riley, KS | 4 Family Apt. House, Company Ofcrs | 1928 | 625-803 | | 9 c2 |
| Fort Riley, KS | 4 Family Apt. House, Company Ofcrs | 1930 | 625-806 | X | 9 c2 |
| Fort Riley, KS | Four Family Apartment House | 1930 | 625-808 | X | 9 c2 |
| Fort Riley, KS | Typical Dry Cleaning Plant | 1930 | 633-165 | | 5 c2 |
| Fort Riley, KS | Infirmary - Large | 1940 | 700-279 | | 4 a |
| Fort Riley, KS | Post Office, Type PO-1 | 1937 | 700-298 | X | 1 d |
| Fort Riley, KS | Shop - Utilities | 1937 | 700-317 | X | 5 a |
| Fort Riley, KS | Cavalry Barracks | 1902 | 75 | X | 9 a2 |
| Fort Riley, KS | Cold Storage Bldg | ? | 800-1226 | X | 5 d1 |
| Fort Riley, KS | Four Set Civillian's Quarters | 1909 | 82-N | X | 9 c1 |
| Fort Riley, KS | Incinerator | 1938 | A-13-1 | | 6 c |
| Fort Riley, KS | Artillery Guard House | 1908 | A-13-9 | X | 1 b |
| Fort Riley, KS | Stable - School of Equitation | 1939 | A-14-12 | X | 10 b1 |
| Fort Riley, KS | Lab Building for Vet Hosp | 1907 | A-14-16 | X | 8 a |
| Fort Riley, KS | Stable | 1938 | A-14-4 | | 10 |
| Fort Riley, KS | Commissary Store House | 1905 | A-19-1 | X | 5 d1 |
| Fort Riley, KS | Barracks | 1938 | A-19-14 | | 9 a2 |

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| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|-------------------------------------|------|----------------|-------|-------|
| Fort Riley, KS | Dispatcher's Office | 1939 | A-19-4 | | 10 c2 |
| Fort Riley, KS | Quarters for Packers | N.D. | A-2-17 | X | 9 a2 |
| Fort Riley, KS | Quarters, no designation | 1939 | A-2-3 | X | 9 c1 |
| Fort Riley, KS | Revised Plan of Engineer Garage | 1937 | A-20-12 | X | 9 d1 |
| Fort Riley, KS | NCO Garages | 1940 | A-20-7 | X | 9 d1 |
| Fort Riley, KS | Quarters, no designation | 1939 | A-4-7 | X | 9 c2 |
| Fort Riley, KS | Quarters, no designation | 1938 | A-4-9 | X | 9 c2 |
| Fort Riley, KS | Q.M. Gas Station | 1932 | A-5-21 | X | 10 c1 |
| Fort Riley, KS | Packing & Crating shop | 1938 | A-8-12 | X | 5 a |
| Fort Riley, KS | Airplane Hangar | N.D. | Butler Mfg Co | X | 10 a1 |
| Fort Riley, KS | Battery Stables | N.D. | E.B. Williston | X | 10 b1 |
| Fort Riley, KS | Administration Building | N.D. | Geo. E. Pond | | 1 c |
| Fort Riley, KS | Proposed Administration Building | N.D. | Geo. E. Pond | | 1 c |
| Fort Riley, KS | Cavalry Stables | N.D. | Geo. E. Pond | X | 10 b1 |
| Fort Riley, KS | Dispensary | N.D. | Geo. E. Pond | X | 4 a |
| Fort Riley, KS | Battery Workshops | N.D. | Geo. E. Pond | X | 5 a |
| Fort Riley, KS | Ordnance Store House | N.D. | Geo. E. Pond | X | 5 d2 |
| Fort Riley, KS | Post Exchange & Gymnasium | N.D. | Geo. E. Pond | X | 7 a |
| Fort Riley, KS | Artillery Barracks, 80 Men | 1896 | Geo. E. Pond | X | 9 a2 |
| Fort Riley, KS | Cavalry Barracks | N.D. | Geo. E. Pond | X | 9 a2 |
| Fort Riley, KS | Outhouse for Cavalry Barracks | N.D. | Geo. E. Pond | X | 9 b1 |
| Fort Riley, KS | Frame Quarters for NCO | 1928 | Geo. E. Pond | X | 9 c1 |
| Fort Riley, KS | Non-Commissioned Officers Quarters | N.D. | Geo. E. Pond | X | 9 c1 |
| Fort Riley, KS | Quarters for Steam Heating Engineer | N.D. | Geo. E. Pond | X | 9 c1 |
| Fort Riley, KS | Proposed Field Officers Quarters | N.D. | Geo. E. Pond | X | 9 c2 |
| Fort Riley, KS | Quarters for Commanding Officer | N.D. | Geo. E. Pond | X | 9 c2 |
| Fort Riley, KS | Cavalry Stable Guard Building | 1896 | George Ruhlen | X | 1 b |
| Fort Riley, KS | Double Quarters for Officer | 1902 | SPL 3-368 | X | 9 c2 |
| Fort Riley, KS | Officers Quarters | 1902 | SPL 3-381 | | 9 c2 |
| | | | | | |
| Manual Cnstr Div | Cantonment: R'mnt Sta 7500 Animals | 1918 | 404-48 | X | 10 b1 |
| Manual Cnstr Div | Lecture Hall, 51x77 | 1918 | 608-104 | | 7 a |
| Manual Cnstr Div | Theatre, Class a, 120x187 | 1918 | 608-24 | | 7 g |
| Manual Cnstr Div | Theatre, Liberty, Class D | 1918 | 608-31to34&106 | | 7 g |
| Manual Cnstr Div | Cantonment: Div HQ | 1918 | 610-221 & 227 | X | 11 a |
| Manual Cnstr Div | Cantonment: Rgmt Inf, Brigd HQ | 1918 | 610-222 | X | 11 a |
| Manual Cnstr Div | Cantonment: Rgmt Lt Art'ly | 1918 | 610-225 | X | 11 a |
| Manual Cnstr Div | Cantonment: Rgmt Hvy Art'ly | 1918 | 610-226 | X | 11 a |
| Manual Cnstr Div | Cantonment: Camp Center | 1918 | 610-232 | X | 11 a |
| Manual Cnstr Div | Cantonment: Depot Brgd HQ | 1918 | 610-233 | X | 11 a |
| Manual Cnstr Div | Cantonment: RR Terminal | 1918 | 610-238 | X | 10d1 |
| Manual Cnstr Div | Cantonment: Qrnt'n Camp 1000 men | 1918 | 610-274 | X | 11 a |
| Manual Cnstr Div | Gas Instruction, 16x30 | 1918 | 6143-2 | | 3 a |
| Manual Cnstr Div | Magazine, Black P'wdr, 16x22 | 1918 | 6196-104 | | 5 d2 |
| Manual Cnstr Div | Garage, 50' x var. | 1918 | 620-301 | | 9 d1 |
| Manual Cnstr Div | Infirmary - Medical, 30'x63' | 1918 | 620-302 | | 4 a |
| Manual Cnstr Div | Infirmary & Dental Ops Bldg. 30'x88 | 1918 | 620-307 & 308 | | 4 a |
| Manual Cnstr Div | Infirm./Dntl Dorm Bldg, 30'x88' | 1918 | 620-310 & 311 | | 4 a |
| Manual Cnstr Div | Barrack, 30'x60' | 1918 | 620-313 | | 9 a2 |
| Manual Cnstr Div | Store House, Regmtl, 20xvar. | 1918 | 620-318 | | 5 d1 |
| Manual Cnstr Div | Northern & Southern Constr Zones | 1918 | 620-320-2-182 | X | 11a |
| Manual Cnstr Div | Garage, 65' x 108' | 1918 | 620-322 & 323 | | 9 d1 |

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|------------------|-------------------------------------|------|----------------|-------|-------|
| Manual Cnstr Div | Lav. w/out shwrs: 17x14, 17x21, 17x | 1918 | 620-324 | | 9 b1 |
| Manual Cnstr Div | Detention Hut, 20'x20' | 1918 | 620-326 | | 4 |
| Manual Cnstr Div | Admin. Building, 20' x 84' | 1918 | 620-327 | | 1 c |
| Manual Cnstr Div | Tel. & Teleg. Bldg, 20x70 | 1918 | 620-328 | | 2 b |
| Manual Cnstr Div | Guard house, Regimental 20'x56' | 1918 | 620-331 | | 1 b |
| Manual Cnstr Div | Shed - Wagon or Gun, 29xvar. | 1918 | 620-332 | | 5 d2 |
| Manual Cnstr Div | Infirmiry - Medical, Addition, 24'x | 1918 | 620-333 | | 4 a |
| Manual Cnstr Div | Bath House, 9'x8' to 9'x32' | 1918 | 620-336 | | 9 b1 |
| Manual Cnstr Div | Officers Quarters, 20x49 | 1918 | 620-337 | | 9 c2 |
| Manual Cnstr Div | Bakery, 30'x70' | 1918 | 620-340 | | 5 c1 |
| Manual Cnstr Div | Fire Station, 24'x77' | 1918 | 620-341 | | 1 a |
| Manual Cnstr Div | Barrack, 30'x50' | 1918 | 620-342 | | 9 a2 |
| Manual Cnstr Div | Officers Quarters, 30xvar. | 1918 | 620-343 | | 9 c2 |
| Manual Cnstr Div | Officers Quarters, 20x28 | 1918 | 620-344 | | 9 c2 |
| Manual Cnstr Div | Lavatory w/showers, 20x49 | 1918 | 620-345 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x42 | 1918 | 620-346 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x35 | 1918 | 620-347 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x21, x28 | 1918 | 620-348 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 14x14, 14x20 | 1918 | 620-349 | | 9 b1 |
| Manual Cnstr Div | Dtchmnt Bar., w/out mess 20' x var. | 1918 | 620-353 | | 9 a2 |
| Manual Cnstr Div | Officers Quarters, 30xvar. | 1918 | 620-354 | | 9 c2 |
| Manual Cnstr Div | Detach. Bar., w/mess 20' x var. | 1918 | 620-355 | | 9 a2 |
| Manual Cnstr Div | Administration Building, 20'x49' | 1918 | 620-356 | | 1 c |
| Manual Cnstr Div | Post Exchange, 32x91 | 1918 | 620-359 | | 7 f |
| Manual Cnstr Div | Bakery, 40'x136 & 51'x62' | 1918 | 620-361 & 362 | | 5 c1 |
| Manual Cnstr Div | Officers Quarters, 20xvar. | 1918 | 620-363 | | 9 |
| Manual Cnstr Div | Officers Quarters, 20xvar. | 1918 | 620-364 | | 9 c2 |
| Manual Cnstr Div | Fire Station, 31'x88' | 1918 | 620-365 | | 1 a |
| Manual Cnstr Div | Barrack, 30'x40' | 1918 | 620-366 | | 9 a2 |
| Manual Cnstr Div | Infirmiry - Medical, 30'x77' | 1918 | 620-368 to 375 | | 4 a |
| Manual Cnstr Div | Officer's Qtrs, 20x21 types A,B,C | 1918 | 620-369 | | 9 c2 |
| Manual Cnstr Div | Magazine, 20'x20' | 1918 | 620-370 | | 5 d2 |
| Manual Cnstr Div | Magazine, 24'x60' | 1918 | 620-371 | | 5 d2 |
| Manual Cnstr Div | Shop, 20x36 | 1918 | 620-372 | | 5 a |
| Manual Cnstr Div | Prisoner's Barrack & Yard, 30'x9 | 1918 | 620-373 | | 9 a2 |
| Manual Cnstr Div | Guard Barrack, 30'x90' | 1918 | 620-373-A | | 9 a2 |
| Manual Cnstr Div | Post Office Building, 32x51 | 1918 | 620-374 | | 1 d |
| Manual Cnstr Div | Stable - open 24xvar. | 1918 | 620-376 | | 10 b1 |
| Manual Cnstr Div | Hay Shed, 60'x165' | 1918 | 620-378 | | 10 b1 |
| Manual Cnstr Div | Bakery, 40'x136' | 1918 | 620-379 | | 5 c1 |
| Manual Cnstr Div | Shop, Clothing etc 30x102 | 1918 | 620-381 | | 5 a |
| Manual Cnstr Div | Infirmiry - Medical, 30'x105' | 1918 | 620-382 | | 4 a |
| Manual Cnstr Div | Infirmiry - Medical, 30'x112' | 1918 | 620-383 & 384 | | 4 a |
| Manual Cnstr Div | Warehouse, Clothing, 60x100 | 1918 | 620-385 & 386 | | 5 d1 |
| Manual Cnstr Div | Shop, Motor Repair, 60x130 | 1918 | 620-387 & 388 | | 10 c2 |
| Manual Cnstr Div | Shop, QMaster, 2 bldgs each, 36x106 | 1918 | 620-390 | | 5 a |
| Manual Cnstr Div | Infirmiry - Medical, 30'x98' | 1918 | 620-392 & 393 | | 4 a |
| Manual Cnstr Div | Stable Guard , 20x21 | 1918 | 620-395 | | 5 a |
| Manual Cnstr Div | Oil house, 20x30 | 1918 | 620-396 | | 6 a |
| Manual Cnstr Div | Auto & Mtr Serv Sta, 35'x41' | 1918 | 620-397 | | 10 |
| Manual Cnstr Div | Store House, Salvage, 60x168 | 1918 | 620-412 & 413 | | 5 d1 |
| Manual Cnstr Div | Telegraph office & Quarters, 20x110 | 1918 | 620-418 | | 2 b |

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|------------------|-------------------------------------|------|---------------|-------|-------|
| Manual Cnstr Div | Bakery, 30'x50' | 1918 | 620-428 | | 5 c1 |
| Manual Cnstr Div | Meat Inspection Platform, 10'x66' | 1918 | 620-429 | | 9 b2 |
| Manual Cnstr Div | Waste & Transfer Station, 20x130 | 1918 | 620-432 | | 6 c |
| Manual Cnstr Div | Rendering Plant, 32x48 | 1918 | 620-435 | | 5 b |
| Manual Cnstr Div | Shop, Cot repair, 40x36 | 1918 | 620-436 | | 5 a |
| Manual Cnstr Div | Shop, Clothing, etc, 60x100 | 1918 | 620-437 | | 5 a |
| Manual Cnstr Div | Shop, Tent Treating, 36x40 | 1918 | 620-439 | | 5 a |
| Manual Cnstr Div | Shop, Tent Repair, 40x60 | 1918 | 620-440 | | 5 a |
| Manual Cnstr Div | Fire Station, 31'x88' | 1918 | 620-441 | | 1 a |
| Manual Cnstr Div | Mess Building, 30x120 , x132, x144 | 1918 | 620-442 | | 9 b2 |
| Manual Cnstr Div | Hose House (Type A & B) 6'x7' | 1918 | 620-445 & 446 | | 6 b |
| Manual Cnstr Div | Fire Station, 31'x103 | 1918 | 620-447 | | 1 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x56' | 1918 | 620-449 | | 4 a |
| Manual Cnstr Div | Classroom Building, 30' x 60' | 1918 | 620-450 | | 3 a |
| Manual Cnstr Div | Shower shelter & wash house, 20x80 | 1918 | 620-451 | | 9 b1 |
| Manual Cnstr Div | Magazine, brick w/corr steel rf, 10 | 1918 | 620-452 | | 5 d2 |
| Manual Cnstr Div | Barrack & lavatory, 43'x120' | 1918 | 620-457 & 458 | | 9 a2 |
| Manual Cnstr Div | Shop, Clothing, etc 28x132, 28x162 | 1918 | 620-467 | | 5 a |
| Manual Cnstr Div | Classroom Building, 49'x150 | 1918 | 620-469 & 470 | | 3 a |
| Manual Cnstr Div | Refrigeration Plant, 20x72 | 1918 | 620-471 & 472 | | 9 b2 |
| Manual Cnstr Div | Regrigeration Cooling Tower, | 1918 | 620-473 | | 9 b2 |
| Manual Cnstr Div | Shop, Motor Repair, 75x96 | 1918 | 620-478 & 479 | | 10 c2 |
| Manual Cnstr Div | Coffee Roasting & Grinding Plant | 1918 | 620-490 & 491 | | 5 b |
| Manual Cnstr Div | Boiler Houses | 1918 | 620-492 | | 6 a |
| Manual Cnstr Div | Garage for Ambulances, 22'x47' | 1918 | 620-496 | | 4 b |
| Manual Cnstr Div | Liberty Theatre, 60x120 | 1918 | 620-499 & 500 | | 7 g |
| Manual Cnstr Div | Bakery 33'x51' | 1918 | 620-505 | | 5 c1 |
| Manual Cnstr Div | Classroom Building, 30'x60' | 1918 | 620-507 | | 3 a |
| Manual Cnstr Div | Ordnance Repair Shop 30x106 | 1918 | 620-508 | | 5 a |
| Manual Cnstr Div | Garage, 30' x var. | 1918 | 620-511 | | 9 d1 |
| Manual Cnstr Div | Lavatory w/showers, 20x50 | 1918 | 620-523 | | 9 b1 |
| Manual Cnstr Div | Garage, open, 50'xvar. | 1918 | 620-524 | | 9 d1 |
| Manual Cnstr Div | Garage, closed, 70'x180' | 1918 | 620-525 | | 9 d1 |
| Manual Cnstr Div | Cafeteria, 105x192 | 1918 | 6209-113 | | 9 b2 |
| Manual Cnstr Div | Garage, Mechanical Repair, 140x144 | 1918 | 6242-5 | | 9 d1 |
| Manual Cnstr Div | Storage Depot/admin Bldg, 140x160 | 1918 | 6271-7 | | 5 d1 |
| Manual Cnstr Div | Dormitory for men, 28x113 | 1918 | 6307-110 | | 9 a2 |
| Manual Cnstr Div | Housing, 4 families, 38x53 | 1918 | 6309-121 | | 9 c1 |
| Manual Cnstr Div | Housing, 1 family, 24x30 | 1918 | 6309-150 | | 9 c1 |
| Manual Cnstr Div | Housing, Boarding, 27x38 | 1918 | 6309-160 | | 9 c1 |
| Manual Cnstr Div | Housing, 1 family, 24x36 | 1918 | 6309-180 | | 9 c1 |
| Manual Cnstr Div | Housing, 1 family, 24x32 | 1918 | 6309-190 | | 9 c1 |
| Manual Cnstr Div | Housing, 2 family, 25x36 | 1918 | 6309-200 | | 9 c1 |
| Manual Cnstr Div | Garage, 61x164 | 1918 | 6311-105 | | 9 d1 |
| Manual Cnstr Div | Delousing Plant, 48x84 | 1918 | 632-551 | | 4 a |
| Manual Cnstr Div | Delousing Plant, 60x204 | 1918 | 632-552 | | 4 a |
| Manual Cnstr Div | Laundry, 72x216, 5-10,000 men | 1918 | 633-130 | | 5 c2 |
| Manual Cnstr Div | Laundry, 36x108, 1-2,000 men | 1918 | 633-140 | | 5 c2 |
| Manual Cnstr Div | Dormitory & Dining Room, 29x136 | 1918 | 6339-111 | | 9 a2 |
| Manual Cnstr Div | Cafeteria, 54x189 | 1918 | 6339-131 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 132x173 | 1918 | 6370-106 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 110x171 | 1918 | 6383-110 | | 9 b2 |

Sorted by: INSTALLATION

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|--------------------------------------|------|----------|-------|-------|
| Manual Cnstr Div | Welfare Bldg, 84x96 | 1918 | 6399-120 | | 1 c |
| Manual Cnstr Div | Cafeteria, 156x200 | 1918 | 6403-111 | | 9 |
| Manual Cnstr Div | Magazine, Smokeless powdr, 32x96 | 1918 | 652-146 | | 5 d2 |
| Manual Cnstr Div | Pyrotech Plant Type D, 20x35 | 1918 | 652-152 | | 5 b |
| Manual Cnstr Div | Pyrotech Plant Type 1 & 2, 30x161 | 1918 | 652-157 | | 5 b |
| Manual Cnstr Div | Pyrotech Plant Type J & J1, 20x35 | 1918 | 652-158 | | 5 b |
| Manual Cnstr Div | Shed, Dock, 60x122 | 1918 | 652-165 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 13, 26x42 | 1918 | 652-169 | | 5 d2 |
| Manual Cnstr Div | Garage, Ordinance, 50xvar. | 1918 | 652-17 | | 9 d1 |
| Manual Cnstr Div | Primer & Fuse house #1, 32x96 | 1918 | 652-173 | | 5 d2 |
| Manual Cnstr Div | Primer & Fuse house #2, 32x96 | 1918 | 652-174 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 10, 49x208 | 1918 | 652-179 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 11, H.E. 26x42 | 1918 | 652-180 | | 5 d2 |
| Manual Cnstr Div | Storage, Vehicles # 3, 161xvar | 1918 | 652-188 | | 10 c2 |
| Manual Cnstr Div | Shop, Ordinance Repair, 30x80 | 1918 | 652-19 | | 5 a |
| Manual Cnstr Div | Guard House, Type 1, 20x56 | 1918 | 652-214 | | 1 b |
| Manual Cnstr Div | Magazine, Type 12, 26x42 | 1918 | 652-31 | | 5 d2 |
| Manual Cnstr Div | Storehouse, General, #1, 161x501 | 1918 | 652-41 | | 5 d1 |
| Manual Cnstr Div | Storage, Vehicles, #1, 113x513 | 1918 | 652-43 | | 10 c2 |
| Manual Cnstr Div | Storehouse, General, #2 | 1918 | 652-74 | | 5 d1 |
| Manual Cnstr Div | Transformer Sta. Type 1, 20x36 | 1918 | 652-81 | | 6 a |
| Manual Cnstr Div | Road Cross Section, Typical | 1918 | LA-1 | X | 11 a |
| Manual Cnstr Div | Road Cross Sections, Typical | 1918 | LA-2 | X | 11a |
| Manual Cnstr Div | Standard Railway Trestle | 1918 | RR-1 | X | 10 d1 |
| Manual Cnstr Div | Std. Railway Coal Trestle | 1918 | RR-2 | X | 10 d1 |
| Manual Cnstr Div | Std. Timber Coal Pocket | 1918 | RR-3 | X | 10 |
| Manual Cnstr Div | Turnout & Crossover, Railways | 1918 | RR-4 | X | 10 d2 |
| Manual Cnstr Div | Std. Trestle Bumper, Railways | 1918 | RR-5 | X | 10 d1 |
| Manual Cnstr Div | Roadbed Sectons, Railways | 1918 | RR-6 | X | 10 d2 |
| Manual Cnstr Div | Terminal General Plan | 1918 | RR-7 | X | 11a |
| Manual Cnstr Div | Terminals General Plans | 1918 | RR-8 | X | 11a |
| Manual Cnstr Div | Typical 1 Story Building | 1918 | SB 1 | X | 11a |
| Manual Cnstr Div | Typ Em'gncy Str'g Whse Toilet Rms | 1918 | SB 10 | X | 5 d1 |
| Manual Cnstr Div | Elec Distrib Syst, Street Lighting | 1918 | SB 11 | X | 6a |
| Manual Cnstr Div | Elec Distrib Syst, 2ndary Lines | 1918 | SB 12 | X | 6a |
| Manual Cnstr Div | Typ Hospital Kitchen Layouts | 1918 | SB 13 | X | 9 b2 |
| Manual Cnstr Div | Hospital Typ Kitchen Layouts | 1918 | SB 14 | X | 4 b |
| Manual Cnstr Div | Typical Mess Buildings | 1918 | SB 15 | X | 9 b2 |
| Manual Cnstr Div | Store House, Divisional, 60x168 | 1918 | SB 16 | X | 5 d1 |
| Manual Cnstr Div | Stable - closed, 29xvar. | 1918 | SB 17 | X | 10 b1 |
| Manual Cnstr Div | Det Hut & Kitchen, Det & Qrntrn Camp | 1918 | SB 18 | X | 9 b2 |
| Manual Cnstr Div | Recruit Exam. Bldg / Shop | 1918 | SB 19 | X | 4 a |
| Manual Cnstr Div | Typical 2 Story Building | 1918 | SB 2 | X | 11a |
| Manual Cnstr Div | Standard Laundry, 10-20,000 men | 1918 | SB 20 | | 5 c2 |
| Manual Cnstr Div | Delousing Plant, 54x120 | 1918 | SB 21 | X | 4 a |
| Manual Cnstr Div | Dormitories w/Mess | 1918 | SB 22 | X | 9 a2 |
| Manual Cnstr Div | Magazine, Type 1 & Type 2 | 1918 | SB 23 | X | 5 d2 |
| Manual Cnstr Div | Auditorium, 200x300 | 1918 | SB 24 | X | 7 a |
| Manual Cnstr Div | Emg'ncy Whse C'prtmt & Group Plan | 1918 | SB 25 | X | 5 d1 |
| Manual Cnstr Div | Typ. Em'gncy Str'g Whse Admin Bldg | 1918 | SB 26 | X | 5 d |
| Manual Cnstr Div | Emg'ncy Whse, Open Shed | 1918 | SB 27 | X | 5 d1 |
| Manual Cnstr Div | Refrigerating & Ice Making Plant | 1918 | SB 28 | X | 5 b |

Sorted by: INSTALLATION

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|-------------------------------------|------|---------------|-------|-------|
| Manual Cnstr Div | Typical 2 Sty Building, Details | 1918 | SB 3 | X | 11a |
| Manual Cnstr Div | Typical Barracks, 66 Men | 1918 | SB 4 | X | 9 a2 |
| Manual Cnstr Div | Typical 2 Story Officers Qtrs | 1918 | SB 5 | X | 9 c2 |
| Manual Cnstr Div | Typical Lavatories | 1918 | SB 6 | X | 9 b1 |
| Manual Cnstr Div | Typical Lavatories Details | 1918 | SB 7 | X | 9 b1 |
| Manual Cnstr Div | Standard Incinerator | 1918 | SB 8 | X | 6 c |
| Manual Cnstr Div | Standard Steel & Wood Hangars | 1919 | SB 9 | X | 10 a1 |
| Manual Cnstr Div | Layout: Hospital | 1918 | SGO-A | X | 4 b |
| Manual Cnstr Div | Layout: Head House | 1918 | SGO-A1 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Admin Bldg | 1918 | SGO-B | X | 4 b |
| Manual Cnstr Div | Typical Hosp Laboratory Bldg | 1918 | SGO-F | X | 4 b |
| Manual Cnstr Div | Typical Hosp Operating Pavillion | 1918 | SGO-G | X | 4 b |
| Manual Cnstr Div | Typical Hosp General Mess & Kitchen | 1918 | SGO-I1 & I32 | X | 4 b |
| Manual Cnstr Div | Typical Hosp General Mess & Kitchen | 1918 | SGO-I28 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Receiving Ward | 1918 | SGO-J | X | 4 b |
| Manual Cnstr Div | Typical Hosp Single Wards | 1918 | SGO-K1 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Single Wards | 1918 | SGO-K34 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Single Wards | 1918 | SGO-K35 | X | 4 b |
| Manual Cnstr Div | Typ. Hosp Phys Thrpy & Amusmnt Hall | 1918 | SGO-S & T | X | 4 b |
| Manual for QMC | Kit. & Dining Rm, 72 Men, Mob. Cmps | 1916 | 15-6 | X | 9 b2 |
| Manual for QMC | Temporary Bldgs for Mob Camps | 1916 | 16-1 | X | 11a |
| Manual for QMC | Admin Building, Mobilization Camps | 1916 | 16-10 | X | 1 c |
| Manual for QMC | Guard House, Mobilization Camps | 1916 | 16-11 | X | 1 b |
| Manual for QMC | Store House, Mobilization Camps | 1916 | 16-12 | X | 5 d1 |
| Manual for QMC | Hospital, Mobilization Camps | 1916 | 16-13 | X | 4 b |
| Manual for QMC | Ward Building, Mobilization Camps | 1916 | 16-14 | X | 4 b |
| Manual for QMC | Post Exchange, Mobilization Camps | 1916 | 16-15 | X | 7 f |
| Manual for QMC | Field Bakery, Mobilization Camps | 1916 | 16-16 | X | 5 c1 |
| Manual for QMC | Animal Shelter, Mobilization Camps | 1916 | 16-17 | X | 10 b1 |
| Manual for QMC | Vehicle Shelter, Mobilization Camps | 1916 | 16-18 | X | 10 c2 |
| Manual for QMC | Officers Quarters, Lge, Mob. Camps | 1916 | 16-2 | X | 9 a1 |
| Manual for QMC | Officers Quarters, Sml, Mob. Camps | 1916 | 16-3 | X | 9 a1 |
| Manual for QMC | NCO Barracks, Mobilization Camps | 1916 | 16-4 | X | 9 a2 |
| Manual for QMC | Barrack, Enl'std Men, Mob. Camps | 1916 | 16-5 | X | 9 a2 |
| Manual for QMC | Mess Building, Mobilization Camps | 1916 | 16-6 | X | 9 b2 |
| Manual for QMC | Kitchen, Mobilization Camps | 1916 | 16-7 | X | 9 b2 |
| Manual for QMC | Latrine, Mobilization Camps | 1916 | 16-8 | X | 9 b1 |
| Manual for QMC | Bath House, Mobilization Camps | 1916 | 16-9 | X | 9 b1 |
| | | | | | |
| Marshall Field | Operations Building | 1940 | 613-9365 | | 1 c |
| Marshall Field, | Operations Building | 1940 | 6139-366 | | 1 c |
| Marshall Field, | Barracks | 1938 | 621-1072 | X | 9 a2 |
| Marshall Field, | Field Officers Quarters | 1932 | 625-1301 | X | 9 c2 |
| Marshall Field, | Field Officers Quarters | 1933 | 625-1340 | X | 9 c2 |
| Marshall Field, | Company Officers Quarters | 1932 | 625-2491 | X | 9 c2 |
| Marshall Field, | Paint Oil & Dope House | 1940 | 702-118 | X | 5 d1 |
| | | | | | |
| Office of QMG | Typ L'scp Pl'tg: CO & Dbl CO Qtrs | 1935 | 630-100 | X | 11 a |
| Office of QMG | Typical Street Tree Planting | 1935 | 630-102 | X | 11 a |
| Office of QMG | Typ L'scp Pl'tg: Th'tre, Hosp, Chpl | 1935 | 630-103 | X | 11 a |
| Office of QMG | Typ. L'scp Pl'tg: HQ, Admin, BOQ | 1935 | 630-Illegible | X | 11 a |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|------------------------------------|------|---------------|-------|-------|--------------------|
| 112 Man Mess | 1916 | 800-847 | | 9 b2 | Fort Chaffee |
| 152 Man Mess | 1916 | 7093-921 | | 9 b2 | Fort Chaffee |
| 4 Family Apt. House, Company Ofcrs | 1928 | 625-803 | | 9 c2 | Fort Riley, KS |
| 4 Family Apt. House, Company Ofcrs | 1930 | 625-806 | X | 9 c2 | Fort Riley, KS |
| 4 Set Officers Quarters | 1911 | 237-B | | 9 c2 | F.E. Warren AFB |
| 4-Set Officers Qtrs | 1911 | 267-B | | 9 c2 | Fort D.A. Russel |
| Academic Building | 1938 | 6139-310 | X | 3 a | Fort Riley, KS |
| Admin Bldg? No Title | N.D. | 6139-307 | X | 1 c | Fort Riley, KS |
| Admin Building (Artillery) | 1911 | 122-F | | 1 c | F.E. Warren AFB |
| Admin Building, Mobilization Camps | 1916 | 16-10 | X | 1 c | Manual for QMC |
| Admin. Building, 20' x 84' | 1918 | 620-327 | | 1 c | Manual Cnstr Div |
| Administration Bldg. | 1916 | 800-204 | | 1 c | Fort Chaffee |
| Administration Bldg. (Hosp.) | 1916 | 800-1417 | | 1 c | Fort Chaffee |
| Administration Building | 1911 | 112-F | | 1 c | F.E. Warren AFB |
| Administration Building | N.D. | Geo. E. Pond | | 1 c | Fort Riley, KS |
| Administration Building, 20'x49' | 1918 | 620-356 | | 1 c | Manual Cnstr Div |
| Air Corps Hangar | 1930 | 695-272 | X | 10 a1 | Chief of Air Corps |
| Air Corps Hangar, E Design | 1931 | 695-284 | X | 10 a1 | Chief of Air Corps |
| Airplane Hangar | N.D. | Butler Mfg Co | X | 10 a1 | Fort Riley, KS |
| Ammunition Storehouse | 1910 | 262 | | 5 d2 | F.E. Warren AFB |
| Animal Shelter, Mobilization Camps | 1916 | 16-17 | X | 10 b1 | Manual for QMC |
| Armament | 1916 | 800-210 | | 5 d2 | Fort Chaffee |
| Artillery Barracks, 80 Men | 1896 | Geo. E. Pond | X | 9 a2 | Fort Riley, KS |
| Artillery or Infantry Stables | 1908 | 139-K | | 10 b1 | F.E. Warren AFB |
| Artillery Shop | 1908 | 59-V | | 5 a | F.E. Warren AFB |
| Artillery Stables | 1904 | 139-C | | 10 b1 | F.E. Warren AFB |
| Artillery Barracks | 1904 | 150 | | 9 a2 | F.E. Warren AFB |
| Artillery Barracks | 1908 | 181 | | 9 a2 | F.E. Warren AFB |
| Artillery Exchange | 1910 | 122-B | | 7 f | F.E. Warren AFB |
| Artillery Gun Shed | 1909 | 209 | | 5 d2 | F.E. Warren AFB |
| Artillery Workshop | 1904 | 59-K | | 5 a | F.E. Warren AFB |
| Artillery Guard House | 1908 | A-13-9 | X | 1 b | Fort Riley, KS |
| Auditorium, 200x300 | 1918 | SB 24 | X | 7 a | Manual Cnstr Div |
| Auto & Mtr Serv Sta, 35'x41' | 1918 | 620-397 | | 10 c1 | Manual Cnstr Div |
| B.O.Q. | 1902 | 152 | X | 9 a1 | Fort Riley, KS |
| B.O.Q. | N.D. | 188 | X | 9 a1 | Fort Riley, KS |
| Bachelor Officers Quarters | 1908 | 152-G | | 9 a1 | F.E. Warren AFB |
| Bachelor Officers Quarters | 1910 | 152-L | | 9 a1 | F.E. Warren AFB |
| Bakery | 1916 | 800-682 | | 5 c1 | Fort Chaffee |
| Bakery | 1902 | 49H | X | 5 c1 | Fort Riley, KS |
| Bakery 33'x51' | 1918 | 620-505 | | 5 c1 | Manual Cnstr Div |
| Bakery, 30'x50' | 1918 | 620-428 | | 5 c1 | Manual Cnstr Div |
| Bakery, 30'x70' | 1918 | 620-340 | | 5 c1 | Manual Cnstr Div |
| Bakery, 40'x136 & 51'x62' | 1918 | 620-361 & 362 | | 5 c1 | Manual Cnstr Div |
| Bakery, 40'x136' | 1918 | 620-379 | | 5 c1 | Manual Cnstr Div |
| Band Barracks | 1907 | 61-F | X | 9 a2 | Fort Riley, KS |
| Band Stand, Cavalry & Artillery | 1911 | 64-B | | 7 g | F.E. Warren AFB |
| Barrack & lavatory, 43'x120' | 1918 | 620-457 & 458 | | 9 a2 | Manual Cnstr Div |
| Barrack, 30'x40' | 1918 | 620-366 | | 9 a2 | Manual Cnstr Div |
| Barrack, 30'x50' | 1918 | 620-342 | | 9 a2 | Manual Cnstr Div |
| Barrack, 30'x60' | 1918 | 620-313 | | 9 a2 | Manual Cnstr Div |
| Barrack, Enl'std Men, Mob. Camps | 1916 | 16-5 | X | 9 a2 | Manual for QMC |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|------------------------------------|------|----------------|-------|-------|------------------|
| Barracks | 1938 | A-19-14 | | 9 a2 | Fort Riley, KS |
| Barracks | 1938 | 621-1072 | X | 9 a2 | Marshall Field, |
| Bath House, 9'x8' to 9'x32' | 1918 | 620-336 | | 9 b1 | Manual Cnstr Div |
| Bath House, Mobilization Camps | 1916 | 16-9 | X | 9 b1 | Manual for QMC |
| Battery Workshops | N.D. | Geo. E. Pond | X | 5 a | Fort Riley, KS |
| Battery Stables | N.D. | E.B. Williston | X | 10 b1 | Fort Riley, KS |
| Boiler Houses | 1918 | 620-492 | | 6 a | Manual Cnstr Div |
| Boiler/Pump House | 1905 | 132-H | | 6 a | Fort McPherson |
| BOQ, 33x140, 33x45, 12x33 | 1904 | 152-B | X | 9 a1 | Fort McPherson |
| C & E Repair Shop | 1916 | 800-1000 | | 5 a | Fort Chaffee |
| C.O.'s Quarters | 1903 | 95-A | | 9 c2 | F.E. Warren AFB |
| Cafeteria, 105x192 | 1918 | 6209-113 | | 9 b2 | Manual Cnstr Div |
| Cafeteria, 110x171 | 1918 | 6383-110 | | 9 b2 | Manual Cnstr Div |
| Cafeteria, 132x173 | 1918 | 6370-106 | | 9 b2 | Manual Cnstr Div |
| Cafeteria, 156x200 | 1918 | 6403-111 | | 9 b2 | Manual Cnstr Div |
| Cafeteria, 54x189 | 1918 | 6339-131 | | 9 b2 | Manual Cnstr Div |
| Cantonment: Camp Center | 1918 | 610-232 | X | 11 a | Manual Cnstr Div |
| Cantonment: Depot Brgd HQ | 1918 | 610-233 | X | 11 a | Manual Cnstr Div |
| Cantonment: Div HQ | 1918 | 610-221 & 227 | X | 11 a | Manual Cnstr Div |
| Cantonment: Qrnt'n Camp 1000 men | 1918 | 610-274 | X | 11 a | Manual Cnstr Div |
| Cantonment: R'mnt Sta 7500 Animals | 1918 | 404-48 | X | 10 b1 | Manual Cnstr Div |
| Cantonment: Rgmt Inf, Brigd HQ | 1918 | 610-222 | X | 11 a | Manual Cnstr Div |
| Cantonment: Rgmt Lt Art'ly | 1918 | 610-225 | X | 11 a | Manual Cnstr Div |
| Cantonment: RR Terminal | 1918 | 610-238 | X | 10d1 | Manual Cnstr Div |
| Cavalry Stable | 1906 | 139 | | 10 b1 | F.E. Warren AFB |
| Cavalry Stable Guard Building | 1896 | George Ruhlen | X | 1 b | Fort Riley, KS |
| Cavalry Band Barracks | 1909 | 61-F | | 9 a2 | F.E. Warren AFB |
| Cavalry Barracks | 1910 | 75-M | | 9 a2 | F.E. Warren AFB |
| Cavalry Barracks | 1902 | 75 | X | 9 a2 | Fort Riley, KS |
| Cavalry Barracks | N.D. | Geo. E. Pond | X | 9 a2 | Fort Riley, KS |
| Cavalry Drill Hall | 1907 | 97-A | | 3 b | F.E. Warren AFB |
| Cavalry Granary | 1909 | 193-A | | 5 d1 | F.E. Warren AFB |
| Cavalry Post Exchange | 1910 | 122-b | | 7 f | F.E. Warren AFB |
| Cavalry Stables | N.D. | Geo. E. Pond | X | 10 b1 | Fort Riley, KS |
| Chapel | 1916 | 700-1800 | | 7 c | Fort Chaffee |
| Civillian Employees Quarters | 1911 | 82-P | | 9 c1 | F.E. Warren AFB |
| Classroom Building, 30' x 60' | 1918 | 620-450 | | 3 a | Manual Cnstr Div |
| Classroom Building, 30'x60' | 1918 | 620-507 | | 3 a | Manual Cnstr Div |
| Classroom Building, 49'x150 | 1918 | 620-469 & 470 | | 3 a | Manual Cnstr Div |
| Clinic | 1916 | 700-476 | | 4 a | Fort Chaffee |
| Clinic | 1916 | 700-484 | | 4 a | Fort Chaffee |
| Clinic | 1916 | 800-1513 | | 4 a | Fort Chaffee |
| Clinic 28 beds, 34x130, 9x30 | 1930 | 6217-36 to 45 | | 5 d1 | Fort McPherson |
| Coal Shed | 1904 | 67-B | | 5 d1 | F.E. Warren AFB |
| Coal Shed | 1909 | 67-J | | 5 d1 | F.E. Warren AFB |
| Coffee Roasting & Grinding Plant | 1918 | 620-490 & 491 | | 5 b | Manual Cnstr Div |
| Cold Storage | 1916 | 700-1265R | | 5 d1 | Fort Chaffee |
| Cold Storage Bldg | ? | 800-1226 | X | 5 d1 | Fort Riley, KS |
| Commissary Building | 1910 | 186 | | 7 f | F.E. Warren AFB |
| Commissary Store House | 1905 | A-19-1 | X | 5 d1 | Fort Riley, KS |
| Company Ofcr 4 Set Apt | 1931 | 129 | | 9 c2 | F.E. Warren AFB |
| Company Officer's Quarters | 1932 | 625-1486 & 87 | | 9 c2 | F.E. Warren AFB |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|-------------------------------------|------|-----------------|-------|-------|------------------|
| Company Officers Quarters | 1932 | 625-2491 | X | 9 c2 | Marshall Field, |
| Company Officers Qtrs | N.D. | 625-1486 & 1487 | | 9 c2 | Fort D.A. Russel |
| Contonment: Rgmt Hvy Art'ly | 1918 | 610-226 | X | 11 a | Manual Cnstr Div |
| Crematory | 1908 | 1-620-B | | 6 c | F.E. Warren AFB |
| Crematory | 1908 | 1-620-B | | 6 c | Fort D.A. Russel |
| Dbl Mess Hall & Kit, 140x42, | 1906 | 93-K | | 9 b2 | Fort McPherson |
| Delousing Plant, 48x84 | 1918 | 632-551 | | 4 a | Manual Cnstr Div |
| Delousing Plant, 54x120 | 1918 | SB 21 | X | 4 a | Manual Cnstr Div |
| Delousing Plant, 60x204 | 1918 | 632-552 | | 4 a | Manual Cnstr Div |
| Dental Clinic | 1916 | 700-467 | | 4 a | Fort Chaffee |
| Dental Clinic | 1916 | 800-1445 | | 4 a | Fort Chaffee |
| Dental Cinc & Cont. Ward, 34x130 | 1939 | 6217-65, 74, 76 | | 4 a | Fort McPherson |
| Det Hut & Kitchen, Det & Qrtn Camp | 1918 | SB 18 | X | 9 b2 | Manual Cnstr Div |
| Detach. Bar., w/mess 20' x var. | 1918 | 620-355 | | 9 a2 | Manual Cnstr Div |
| Detachment Barracks | 1931 | 621-850 & 851 | | 9 a2 | F.E. Warren AFB |
| Detention Hut, 20'x20' | 1918 | 620-326 | | 4 b | Manual Cnstr Div |
| Detention Ward | 1916 | 800.-1424 | | 4 b | Fort Chaffee |
| Dispatcher's Office | 1939 | A-19-4 | | 10 c2 | Fort Riley, KS |
| Dispatching House | 1916 | 800-661 | | 10 c2 | Fort Chaffee |
| Dispensary | N.D. | Geo. E. Pond | X | 4 a | Fort Riley, KS |
| Dispensary (Cavalry) | 1909 | 247 | | 4 a | F.E. Warren AFB |
| Dormitories w/Mess | 1918 | SB 22 | X | 9 a2 | Manual Cnstr Div |
| Dormitory & Dining Room, 29x136 | 1918 | 6339-111 | | 9 a2 | Manual Cnstr Div |
| Dormitory for men, 28x113 | 1918 | 6307-110 | | 9 a2 | Manual Cnstr Div |
| Double barracks, 39x150 | 1904 | 75-G | | 9 a2 | Fort McPherson |
| Double Lieutenants Quarters | 1909 | 120-F | | 9 c2 | F.E. Warren AFB |
| Double NCO Quarters | 1931 | 8682-D | | 9 c1 | F.E. Warren AFB |
| Double NCO Quarters | 1931 | 625-1543 & 1544 | | 9 c1 | Fort D.A. Russel |
| Double NCO Quarters | 1933 | 625-2510 & 2511 | | 9 c1 | Fort D.A. Russel |
| Double NCO Quarters 2 sty, brick | 1930 | 625-1530 | X | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, 2 story stone | 1938 | 625-3572-3 | X | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, 2 story, stone | 1938 | 625-3571-3 | X | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, 2 sty, brick | 1930 | 625-1444 | | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, 2 sty, brick | 1935 | 625-3571 | X | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, 2 sty, brick | 1935 | 625-3572 | X | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, 2 sty, stone | 1938 | 625-3570-3 | X | 9 c1 | Fort Riley, KS |
| Double NCO Quarters, type A | 1933 | 625-2510 - 2511 | | 9 c1 | F.E. Warren AFB |
| Double NCO Quarters, type B | 1933 | 625-2510 & 2518 | | 9 c1 | F.E. Warren AFB |
| Double NCO Quarters, w sty, brick | 1930 | 625-1543 | | 9 c1 | Fort Riley, KS |
| Double Officers Quarters | 1906 | 142-A | | 9 c2 | F.E. Warren AFB |
| Double Officers Quarters | 1909 | 142-B | | 9 c2 | F.E. Warren AFB |
| Double Quarters for Officer | 1902 | SPL 3-368 | X | 9 c2 | Fort Riley, KS |
| Double Set N.C.S.O. Quarters | 1885 | 82-D | | 9 c1 | F.E. Warren AFB |
| Double Set Officer's Quarters | 1905 | 120-C | | 9 c2 | F.E. Warren AFB |
| Double Set Officer's Quarters | 1905 | 90 | | 9 c2 | F.E. Warren AFB |
| Double Set Officers Quarters | 1905 | 120-D | | 9 c2 | F.E. Warren AFB |
| Dtchmnt Bar., w/out mess 20' x var. | 1918 | 620-353 | | 9 a2 | Manual Cnstr Div |
| E.M. Mess | 1916 | 800-849 | | 9 b2 | Fort Chaffee |
| E.M. Mess (M-248 less one 8'bay) | 1916 | 800-851 | | 9 b2 | Fort Chaffee |
| Elec Distrib Syst, 2ndary Lines | 1918 | SB 12 | X | 6a | Manual Cnstr Div |
| Elec Distrib Syst, Street Lighting | 1918 | SB 11 | X | 6a | Manual Cnstr Div |
| Electric Sub Station, 10x12 | 1909 | 4-936 | | 6 a | Fort McPherson |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|------------------------------------|------|----------------|-------|-------|------------------|
| Emg'ncy Whse C'prtmt & Group Plan | 1918 | SB 25 | X | 5 d1 | Manual Cnstr Div |
| Emg'ncy Whse, Open Shed | 1918 | SB 27 | X | 5 d1 | Manual Cnstr Div |
| Exchange | 1916 | 700-297 | | 7 f | Fort Chaffee |
| Field Bakery, Mobilization Camps | 1916 | 16-16 | X | 5 c1 | Manual for QMC |
| Field Officers Qtrs | 1909 | 215 | | 9 c2 | Fort D.A. Russel |
| Field Officers Quarters | 1905 | 145 | | 9 c2 | F.E. Warren AFB |
| Field Officers Quarters | 1909 | 145-D | | 9 c2 | F.E. Warren AFB |
| Field Officers Quarters | 1910 | 145-F | | 9 c2 | F.E. Warren AFB |
| Field Officers Quarters | 1911 | 235-A | | 9 c2 | F.E. Warren AFB |
| Field Officers Quarters | 1932 | 625-1341 | X | 9 c2 | Fort Riley, KS |
| Field Officers Quarters | 1932 | 625-1301 | X | 9 c2 | Marshall Field, |
| Field Officers Quarters | 1933 | 625-1340 | X | 9 c2 | Marshall Field, |
| Film Vault, size illegible | ? | 6217-127? | | 5 d1 | Fort McPherson |
| Fire Station | 1909 | 98-E | | 1 a | F.E. Warren AFB |
| Fire Station | 1909 | 98-G | | 1 a | F.E. Warren AFB |
| Fire Station | 1916 | 800-800 | | 1 a | Fort Chaffee |
| Fire Station, 24'x77' | 1918 | 620-341 | | 1 a | Manual Cnstr Div |
| Fire Station, 31'x103 | 1918 | 620-447 | | 1 a | Manual Cnstr Div |
| Fire Station, 31'x88' | 1918 | 620-365 | | 1 a | Manual Cnstr Div |
| Fire Station, 31'x88' | 1918 | 620-441 | | 1 a | Manual Cnstr Div |
| Fld. Office | 1916 | 7093-451 | | 1 c | Fort Chaffee |
| Fld. Office Water Stg. Tank | 1916 | 7093-454.2 | | 5 d1 | Fort Chaffee |
| Four Family Apartment House | 1930 | 625-808 | X | 9 c2 | Fort Riley, KS |
| Four Set Civillian's Quarters | 1909 | 82-N | X | 9 c1 | Fort Riley, KS |
| Frame Quarters for NCO | 1928 | Geo. E. Pond | X | 9 c1 | Fort Riley, KS |
| Garage for Ambulances, 22'x47' | 1918 | 620-496 | | 4 b | Manual Cnstr Div |
| Garage, 30' x var. | 1918 | 620-511 | | 9 d1 | Manual Cnstr Div |
| Garage, 50' x var. | 1918 | 620-301 | | 9 d1 | Manual Cnstr Div |
| Garage, 61x164 | 1918 | 6311-105 | | 9 d1 | Manual Cnstr Div |
| Garage, 65' x 108' | 1918 | 620-322 & 323 | | 9 d1 | Manual Cnstr Div |
| Garage, closed, 70'x180' | 1918 | 620-525 | | 9 d1 | Manual Cnstr Div |
| Garage, Mechanical Repair, 140x144 | 1918 | 6242-5 | | 9 d1 | Manual Cnstr Div |
| Garage, open, 50'xvar. | 1918 | 620-524 | | 9 d1 | Manual Cnstr Div |
| Garage, Ordinance, 50xvar. | 1918 | 652-17 | | 9 d1 | Manual Cnstr Div |
| Gas Instruction, 16x30 | 1918 | 6143-2 | | 3 a | Manual Cnstr Div |
| Gas Sta. & Pump House | 1916 | 800-601 | | 10 c1 | Fort Chaffee |
| Granary | 1907 | 193 | X | 5 d1 | Fort Riley, KS |
| Grease Rack & Insp. Rack | 1916 | 800-1026 | | 10 c2 | Fort Chaffee |
| Guard Barrack, 30'x90' | 1918 | 620-373-A | | 9 a2 | Manual Cnstr Div |
| Guard House | 1911 | 206 | | 1 b | F.E. Warren AFB |
| Guard House, 60x85 | 1891 | 9 | | 1 b | Fort McPherson |
| Guard House, Mobilization Camps | 1916 | 16-11 | X | 1 b | Manual for QMC |
| Guard house, Regimental 20'x56' | 1918 | 620-331 | | 1 b | Manual Cnstr Div |
| Guard House, Type 1, 20x56 | 1918 | 652-214 | | 1 b | Manual Cnstr Div |
| Guest House | 1916 | 700-1290 | | 9 a1 | Fort Chaffee |
| Gymnasium | 1940 | 6560-145 - 179 | | 7 b | Fort D.A. Russel |
| Hay Shed | 1909 | 102-G | | 10 b1 | F.E. Warren AFB |
| Hay Shed | 1926 | 102-F | | 10 b1 | F.E. Warren AFB |
| Hay Shed, 60'x165' | 1918 | 620-378 | | 10 b1 | Manual Cnstr Div |
| Heating Plant | 1916 | 7093-501 | | 6 a | Fort Chaffee |
| Hose House (Type A & B) 6'x7' | 1918 | 620-445 & 446 | | 6 b | Manual Cnstr Div |
| Hose House, 30x50 | 1898 | Post | | 6 b | Fort McPherson |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|-------------------------------------|------|----------------|-------|------|------------------|
| Hosp Corps Bar. | 1908 | 1-729-S.P.S. | | 9 a2 | Fort D.A. Russel |
| Hospital Corps Barracks | 1912 | 276 | | 9 a2 | F.E. Warren AFB |
| Hospital Corps Barracks | 1912 | 2-76 | | 9 a2 | Fort D.A. Russel |
| Hospital Sergant's Quarters | 1905 | Unknown | | 9 c1 | F.E. Warren AFB |
| Hospital Typ Kitchen Layouts | 1918 | SB 14 | X | 4 b | Manual Cnstr Div |
| Hospital, Mobilization Camps | 1916 | 16-13 | X | 4 b | Manual for QMC |
| Housing, 1 family, 24x30 | 1918 | 6309-150 | | 9 c1 | Manual Cnstr Div |
| Housing, 1 family, 24x32 | 1918 | 6309-190 | | 9 c1 | Manual Cnstr Div |
| Housing, 1 family, 24x36 | 1918 | 6309-180 | | 9 c1 | Manual Cnstr Div |
| Housing, 2 family, 25x36 | 1918 | 6309-200 | | 9 c1 | Manual Cnstr Div |
| Housing, 4 families, 38x53 | 1918 | 6309-121 | | 9 c1 | Manual Cnstr Div |
| Housing, Boarding, 27x38 | 1918 | 6309-160 | | 9 c1 | Manual Cnstr Div |
| Ice House | 1910 | 196-A | | 6 b | F.E. Warren AFB |
| Ice Storage | 1916 | 800-777 | | 5 d1 | Fort Chaffee |
| Incinerator | 1916 | 414/43/330 | | 6 c | Fort Chaffee |
| Incinerator | 1938 | A-13-1 | | 6 c | Fort Riley, KS |
| Incinerator - trash only | 1939 | 414-43-228 | | 6 c | F.E. Warren AFB |
| Infirm./Dntl Dorm Bldg, 30'x88' | 1918 | 620-310 & 311 | | 4 a | Manual Cnstr Div |
| Infirmary | 1916 | 800-1429 | | 4 a | Fort Chaffee |
| Infirmary & Dental Ops Bldg, 30'x88 | 1918 | 620-307 & 308 | | 4 a | Manual Cnstr Div |
| Infirmary - Large | 1940 | 700-279 | | 4 a | Fort Riley, KS |
| Infirmary - Medical, 30'x105' | 1918 | 620-382 | | 4 a | Manual Cnstr Div |
| Infirmary - Medical, 30'x112' | 1918 | 620-383 & 384 | | 4 a | Manual Cnstr Div |
| Infirmary - Medical, 30'x56' | 1918 | 620-449 | | 4 a | Manual Cnstr Div |
| Infirmary - Medical, 30'x63' | 1918 | 620-302 | | 4 a | Manual Cnstr Div |
| Infirmary - Medical, 30'x77' | 1918 | 620-368 to 375 | | 4 a | Manual Cnstr Div |
| Infirmary - Medical, 30'x98' | 1918 | 620-392 & 393 | | 4 a | Manual Cnstr Div |
| Infirmary - Medical, Addition, 24'x | 1918 | 620-333 | | 4 a | Manual Cnstr Div |
| Kit. & Dining Rm, 72 Men, Mob. Cmps | 1916 | 15-6 | X | 9 b2 | Manual for QMC |
| Kitchen & Mess, 24x100, 31x33 | 1930 | 6217-47 to 57 | | 9 b2 | Fort McPherson |
| Kitchen, Mobilization Camps | 1916 | 16-7 | X | 9 b2 | Manual for QMC |
| Lab Building for Vet Hosp | 1907 | A-14-16 | X | 8 a | Fort Riley, KS |
| Latrine, Mobilization Camps | 1916 | 16-8 | X | 9 b1 | Manual for QMC |
| Laundry | 1911 | 234-B | | 5 c2 | F.E. Warren AFB |
| Laundry | 1911 | 243-B | | 5 c2 | F.E. Warren AFB |
| Laundry | 1916 | 800-1029 | | 5 c2 | Fort Chaffee |
| Laundry Steam Plant | 1916 | 800-1619 | | 5 c2 | Fort Chaffee |
| Laundry, 36x108, 1-2,000 men | 1918 | 633-140 | | 5 c2 | Manual Cnstr Div |
| Laundry, 72x216, 5-10,000 men | 1918 | 633-130 | | 5 c2 | Manual Cnstr Div |
| Lav. w/out shwrs: 17x14, 17x21, 17x | 1918 | 620-324 | | 9 b1 | Manual Cnstr Div |
| Lavatory | 1916 | 700-285 | | 9 b1 | Fort Chaffee |
| Lavatory w/showers, 14x14, 14x20 | 1918 | 620-349 | | 9 b1 | Manual Cnstr Div |
| Lavatory w/showers, 20x21, x28 | 1918 | 620-348 | | 9 b1 | Manual Cnstr Div |
| Lavatory w/showers, 20x35 | 1918 | 620-347 | | 9 b1 | Manual Cnstr Div |
| Lavatory w/showers, 20x42 | 1918 | 620-346 | | 9 b1 | Manual Cnstr Div |
| Lavatory w/showers, 20x49 | 1918 | 620-345 | | 9 b1 | Manual Cnstr Div |
| Lavatory w/showers, 20x50 | 1918 | 620-523 | | 9 b1 | Manual Cnstr Div |
| Layout: Head House | 1918 | SGO-A1 | X | 4 b | Manual Cnstr Div |
| Layout: Hospital | 1918 | SGO-A | X | 4 b | Manual Cnstr Div |
| Lecture Hall, 51x77 | 1918 | 608-104 | | 7 a | Manual Cnstr Div |
| Liberty Theatre, 60x120 | 1918 | 620-499 & 500 | | 7 g | Manual Cnstr Div |
| Light Battery Gun Shed | 1905 | 104 | | 5 d2 | F.E. Warren AFB |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|-------------------------------------|------|----------------|-------|-------|------------------|
| Light Battery Gun Shed | 1908 | 104-F | | 5 d2 | F.E. Warren AFB |
| Magazine, 12x15, brick | 1893 | 46 | | 5 d2 | Fort McPherson |
| Magazine, 20'x20' | 1918 | 620-370 | | 5 d2 | Manual Cnstr Div |
| Magazine, 24'x60' | 1918 | 620-371 | | 5 d2 | Manual Cnstr Div |
| Magazine, Black P'wdr, 16x22 | 1918 | 6196-104 | | 5 d2 | Manual Cnstr Div |
| Magazine, brick w/corr steel rf, 10 | 1918 | 620-452 | | 5 d2 | Manual Cnstr Div |
| Magazine, Post Ordnance | 1934 | 19-2-70 | X | 5 d2 | Fort Lewis, WA |
| Magazine, Smokeless pwdr, 32x96 | 1918 | 652-146 | | 5 d2 | Manual Cnstr Div |
| Magazine, Type 1 & Type 2 | 1918 | SB 23 | X | 5 d2 | Manual Cnstr Div |
| Magazine, Type 10, 49x208 | 1918 | 652-179 | | 5 d2 | Manual Cnstr Div |
| Magazine, Type 11, H.E. 26x42 | 1918 | 652-180 | | 5 d2 | Manual Cnstr Div |
| Magazine, Type 12, 26x42 | 1918 | 652-31 | | 5 d2 | Manual Cnstr Div |
| Magazine, Type 13, 26x42 | 1918 | 652-169 | | 5 d2 | Manual Cnstr Div |
| Magazines igloo type | 1916 | 642-535 | | 5 d2 | Fort Chaffee |
| Magazines igloo type | 1916 | 652-535 | | 5 d2 | Fort Chaffee |
| Meat Inspection Platform, 10'x66' | 1918 | 620-429 | | 9 b2 | Manual Cnstr Div |
| Med Dtchmnt Bar (and 6560-140--142) | 1939 | 621-1325--1346 | | 9 a2 | F.E. Warren AFB |
| Med. Detachment Admin. Bldg. | 1916 | 800-A101210 | | 1 c | Fort Chaffee |
| Med. Detachment Barracks | 1916 | 700-1204 | | 9 a2 | Fort Chaffee |
| Med. Detachment Barracks | 1939 | 6560-140 - 142 | | 9 a2 | Fort D.A. Russel |
| Med. Detachment Recr. | 1916 | 800-459 | | 7 a | Fort Chaffee |
| Medical Detachment Bar | 1939 | 6560-140--142 | | 9 a2 | F.E. Warren AFB |
| Medical Detachment Mess | 1916 | 700-446 | | 9 b2 | Fort Chaffee |
| Mess Building, 30x120 , x132, x144 | 1918 | 620-442 | | 9 b2 | Manual Cnstr Div |
| Mess Building, Mobilization Camps | 1916 | 16-6 | X | 9 b2 | Manual for QMC |
| Mess Hall, 144x177, 800 men | 1893 | 42 | | 9 b2 | Fort McPherson |
| Mess Patients | 1916 | 700-44+A476 | | 9 b2 | Fort Chaffee |
| Morgue | 1916 | 800-1454 | | 4.b | Fort Chaffee |
| Motor Repair Shop | 1916 | 700-1390 | | 10 c2 | Fort Chaffee |
| Motor Repair Shop | 1916 | 700+A42-374 | | 10 c2 | Fort Chaffee |
| Motor Repair Shop | 1916 | 800-606 | | 10 c2 | Fort Chaffee |
| Motor School | 1916 | 700-374 | | 10 c2 | Fort Chaffee |
| N.C.O. Quarters | 1909 | 82-K | | 9 c1 | F.E. Warren AFB |
| NCO Barracks, Mobilization Camps | 1916 | 16-4 | X | 9 a2 | Manual for QMC |
| NCO Double Quarters | 1930 | 625-541 | X | 9 c1 | Fort Riley, KS |
| NCO Garages | 1940 | A-20-7 | X | 9 d1 | Fort Riley, KS |
| NCO Quarters - type c - brick | 1932 | 625-1556 | X | 9 c1 | Fort Riley, KS |
| Non-Commissioned Officers Quarters | N.D. | Geo. E. Pond | X | 9 c1 | Fort Riley, KS |
| Northern & Southern Constr Zones | 1918 | 620-320-2-182 | X | 11a | Manual Cnstr Div |
| Nurses Quarters | 1906 | 152-E | | 9 a1 | F.E. Warren AFB |
| Nurses Quarters, 13 nurses | 1933 | 707-102 to 107 | | 9 a1 | Fort McPherson |
| Nurses Recreation Room | 1916 | 800-451 | | 7 a | Fort Chaffee |
| Nurses' Mess | 1916 | 700-451 | | 9 b2 | Fort Chaffee |
| Nurses' Quarters | 1916 | 700-1240 | | 9 a1 | Fort Chaffee |
| Officer's Qtrs, 20x21 types A,B,C | 1918 | 620-369 | | 9 c2 | Manual Cnstr Div |
| Officers Mess | 1916 | 700-1127 | | 9 b2 | Fort Chaffee |
| Officers Quarters | 1888 | (Illegible)2 | | 9 c2 | F.E. Warren AFB |
| Officers Quarters | 1910 | 120-H | | 9 c2 | F.E. Warren AFB |
| Officers Quarters | 1910 | 142-D | | 9 c2 | F.E. Warren AFB |
| Officers Quarters | 1902 | SPL 3-381 | | 9 c2 | Fort Riley, KS |
| Officers Quarters 4 Officers | 1909 | 237-A | X | 9 c2 | Fort Riley, KS |
| Officers Quarters, 20x28 | 1918 | 620-344 | | 9 c2 | Manual Cnstr Div |

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| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|------------------------------------|------|--------------|-------|------|------------------|
| Officers Quarters, 20x49 | 1918 | 620-337 | | 9 c2 | Manual Cnstr Div |
| Officers Quarters, 20xvar. | 1918 | 620-363 | | 9 c2 | Manual Cnstr D |
| Officers Quarters, 20xvar. | 1918 | 620-364 | | 9 c2 | Manual Cnstr Div |
| Officers Quarters, 30xvar. | 1918 | 620-343 | | 9 c2 | Manual Cnstr Div |
| Officers Quarters, 30xvar. | 1918 | 620-354 | | 9 c2 | Manual Cnstr Div |
| Officers Quarters, Lge, Mob. Camps | 1916 | 16-2 | X | 9 a1 | Manual for QMC |
| Officers Quarters, Sml, Mob. Camps | 1916 | 16-3 | X | 9 a1 | Manual for QMC |
| Officers' Mess | 1916 | 700-450 | | 9 b2 | Fort Chaffee |
| Officers' Quarters | 1916 | 700-1257 | | 9 c2 | Fort Chaffee |
| Officers' Quarters | 1916 | 800-307 | | 9 c2 | Fort Chaffee |
| Officers' Club | 1916 | 800-809 | | 7 d | Fort Chaffee |
| Officers' Quarters | 1916 | 700-1254 | | 9 c2 | Fort Chaffee |
| Officers Quarters | 1916 | 800-306 | | 9 c2 | Fort Chaffee |
| Oil House 25x 49' | 1916 | 700-323 | | 6 a | Fort Chaffee |
| Oil house, 20x30 | 1918 | 620-396 | | 6 a | Manual Cnstr Div |
| Oil Shed | 1916 | 700-384 | | 6 a | Fort Chaffee |
| Operations Building | 1940 | 613-9365 | | 1 c | Marshall Field |
| Operations Building | 1940 | 6139-366 | | 1 c | Marshall Field, |
| Ordnance Repair Shop 30x106 | 1918 | 620-508 | | 5 a | Manual Cnstr Div |
| Ordnance Shop Boiler House | 1916 | 652-423 | | 5 a | Fort Chaffee |
| Ordnance Shop w/crane | 1916 | 652-419 | | 5 a | Fort Chaffee |
| Ordnance Store House | N.D. | Geo. E. Pond | X | 5 d2 | Fort Riley, KS |
| Ordnance Storehouse, 30x50 | 1897 | 103-A | | 5 d1 | Fort McPherson |
| Outhouse for Cavalry Barracks | N.D. | Geo. E. Pond | X | 9 b1 | Fort Riley, KS |
| Packing & Crating shop | 1938 | A-8-12 | X | 5 a | Fort Riley, KS |
| Paint Oil & Dope House | 1940 | 702-118 | X | 5 d1 | Marshall Field, |
| Physiotherapy | 1916 | 700-348 | | 4 b | Fort Chaffee |
| Post & Telegraph Office | 1907 | 177 | | 1 d | F.E. Warren AFB |
| Post Bakery | 1903 | 1-1180 | | 5 c1 | F.E. Warren AFB |
| Post Exchange | 1905 | 158 | | 7 f | F.E. Warren AFB |
| Post Exchange | 1916 | 800-1412 | | 7 f | Fort Chaffee |
| Post Exchange & Gymnasium | 1906 | 174 | X | 7 a | Fort Riley, KS |
| Post Exchange & Gymnasium | N.D. | Geo. E. Pond | X | 7 a | Fort Riley, KS |
| Post Exchange, 32x91 | 1918 | 620-359 | | 7 f | Manual Cnstr Div |
| Post Exchange, Mobilization Camps | 1916 | 16-15 | X | 7 f | Manual for QMC |
| Post Guard House | 1901 | 30-C | | 1 b | F.E. Warren AFB |
| Post Headquarters | 1909 | 1-729 S.P.S. | | 1 c | F.E. Warren AFB |
| Post Office | 1916 | 800-217 | | 1 d | Fort Chaffee |
| Post Office Building, 32x51 | 1918 | 620-374 | | 1 d | Manual Cnstr Div |
| Post Office, Type PO-1 | 1937 | 700-298 | X | 1 d | Fort Riley, KS |
| Powder Magazine | 1910 | 263 | | 5 d2 | F.E. Warren AFB |
| Primer & Fuse house #1, 32x96 | 1918 | 652-173 | | 5 d2 | Manual Cnstr Div |
| Primer & Fuse house #2, 32x96 | 1918 | 652-174 | | 5 d2 | Manual Cnstr Div |
| Prisoner's Barrack & Yard, 30'x9 | 1918 | 620-373 | | 9 a2 | Manual Cnstr Div |
| Prisoner's Barracks | 1916 | 800-443 | | 9 a2 | Fort Chaffee |
| Proposed Administration Building | N.D. | Geo. E. Pond | | 1 c | Fort Riley, KS |
| Proposed Field Officers Quarters | N.D. | Geo. E. Pond | X | 9 c2 | Fort Riley, KS |
| Pump House (& N.C.O. Quarters) | 1905 | 132-E | | 6 b | F.E. Warren AFB |
| Pyrotech Plant Type 1 & 2, 30x161 | 1918 | 652-157 | | 5 b | Manual Cnstr Div |
| Pyrotech Plant Type D, 20x35 | 1918 | 652-152 | | 5 b | Manual Cnstr Di |
| Pyrotech Plant Type J & J1, 20x35 | 1918 | 652-158 | | 5 b | Manual Cnstr Div |
| Q.M. Barracks for M.T. | 1900 | 53-D | | 9 a2 | F.E. Warren AFB |

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| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|-------------------------------------|------|---------------|-------|-------|------------------|
| Q.M. Forage Storehouse | 1908 | 53-A | | 5 d1 | F.E. Warren AFB |
| Q.M. Gas Station | 1932 | A-5-21 | X | 10 c1 | Fort Riley, KS |
| Q.M. Store House, Artillery | 1909 | 198 | | 5 d2 | F.E. Warren AFB |
| Q.M. Utility Shop | 1916 | 800-603 | | 5 a | Fort Chaffee |
| Quartermaster Stable, 129x67 | 1908 | 139-H | | 10 b1 | Fort McPherson |
| Quartermaster Stable, 145x67 | 1910 | 139-L | | 10 b1 | Fort McPherson |
| Quarters for Civilian Employees | 1909 | 258 | X | 9 c1 | Fort Riley, KS |
| Quarters for Commanding Officer | N.D. | Geo. E. Pond | X | 9 c2 | Fort Riley, KS |
| Quarters for Field Officer | 1905 | 145-D | X | 9 c2 | Fort Riley, KS |
| Quarters for Packers | N.D. | A-2-17 | X | 9 a2 | Fort Riley, KS |
| Quarters for Steam Heating Engineer | N.D. | Geo. E. Pond | X | 9 c1 | Fort Riley, KS |
| Quarters for Two Lieutenants | 1907 | 120-H | X | 9 c2 | Fort Riley, KS |
| Quarters, no designation | 1938 | A-4-9 | X | 9 c2 | Fort Riley, KS |
| Quarters, no designation | 1939 | A-2-3 | X | 9 c1 | Fort Riley, KS |
| Quarters, no designation | 1939 | A-4-7 | X | 9 c2 | Fort Riley, KS |
| Radio Range Bldg. | 1916 | 800-905 | | 2 a | Fort Chaffee |
| Recreation Bldg. | 1916 | 800-460 | | 7 a | Fort Chaffee |
| Recreation Bldg. Patients | 1916 | 700-520 | | 4 b | Fort Chaffee |
| Recreational Bldg. | 1916 | 700-310 | | 7 a | Fort Chaffee |
| Recruit Exam. Bldg / Shop | 1918 | SB 19 | X | 4 a | Manual Cnstr Div |
| Refrigerating & Ice Making Plant | 1918 | SB 28 | X | 5 b | Manual Cnstr Div |
| Refrigeration Plant, 20x72 | 1918 | 620-471 & 472 | | 9 b2 | Manual Cnstr Div |
| Refrigeration Cooling Tower, | 1918 | 620-473 | | 9 b2 | Manual Cnstr Div |
| Rendering Plant, 32x48 | 1918 | 620-435 | | 5 b | Manual Cnstr Div |
| Revised Plan of Engineer Garage | 1937 | A-20-12 | X | 9 d1 | Fort Riley, KS |
| Rm. & Storage Bays | 1916 | 800-607 | | 5 d1 | Fort Chaffee |
| Road Cross Section, Typical | 1918 | LA-1 | X | 10c2 | Manual Cnstr Div |
| Road Cross Sections, Typical | 1918 | LA-2 | X | 10c2 | Manual Cnstr Div |
| Roadbed Sectons, Railways | 1918 | RR-6 | X | 10 d2 | Manual Cnstr Div |
| Salvage Warehouse | 1916 | 800-652 | | 5 d1 | Fort Chaffee |
| Service Club | 1916 | 700-1775 | | 7 d | Fort Chaffee |
| Sewage Treat. Plnt, Cntrl Hse | 1942 | 408-204 | X | 6 b | Fort Riley, KS |
| Shed - Wagon or Gun, 29xvar. | 1918 | 620-332 | | 5 d2 | Manual Cnstr Div |
| Shed, Dock, 60x122 | 1918 | 652-165 | | 5 d2 | Manual Cnstr Div |
| Shop - Utilities | 1937 | 700-317 | X | 5 a | Fort Riley, KS |
| Shop Building | 1916 | 407 | X | 5 a | Fort Riley, KS |
| Shop, 20x36 | 1918 | 620-372 | | 5 a | Manual Cnstr Div |
| Shop, Clothing etc 30x102 | 1918 | 620-381 | | 5 a | Manual Cnstr Div |
| Shop, Clothing, etc 28x132, 28x162 | 1918 | 620-467 | | 5 a | Manual Cnstr Div |
| Shop, Clothing, etc, 60x100 | 1918 | 620-437 | | 5 a | Manual Cnstr Div |
| Shop, Cot repair, 40x36 | 1918 | 620-436 | | 5 a | Manual Cnstr Div |
| Shop, Motor Repair, 60x130 | 1918 | 620-387 & 388 | | 10 c2 | Manual Cnstr Div |
| Shop, Motor Repair, 75x96 | 1918 | 620-478 & 479 | | 10 c2 | Manual Cnstr Div |
| Shop, Ordnance Repair, 30x80 | 1918 | 652-19 | | 5 a | Manual Cnstr Div |
| Shop, QMaster, 2 bldgs each, 36x106 | 1918 | 620-390 | | 5 a | Manual Cnstr Div |
| Shop, Tent Repair, 40x60 | 1918 | 620-440 | | 5 a | Manual Cnstr Div |
| Shop, Tent Treating, 36x40 | 1918 | 620-439 | | 5 a | Manual Cnstr Div |
| Shower shelter & wash house, 20x80 | 1918 | 620-451 | | 9 b1 | Manual Cnstr Div |
| Sm Finance. Bldg. | 1916 | 800-219 | | 1 c | Fort Chaffee |
| Sports Arena | 1916 | 800-465 | | 7 b | Fort Chaffee |
| Sta. HQ. Office | 1916 | 800-214 | | 1 c | Fort Chaffee |
| Stable | 1938 | A-14-4 | | 10 b1 | Fort Riley, KS |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|-------------------------------------|------|----------------|-------|-------|--------------------|
| Stable - closed, 29xvar. | 1918 | SB 17 | X | 10 b1 | Manual Cnstr Div |
| Stable - open 24xvar. | 1918 | 620-376 | | 10 b1 | Manual Cnstr Div |
| Stable - School of Equitation | 1939 | A-14-12 | X | 10 b1 | Fort Riley, KS |
| Stable for Inf. & Officers Mounts | 1908 | 139-Q | | 10 b1 | F.E. Warren AFB |
| Stable Guard & Shops | 1909 | 39-N | | 10 b1 | F.E. Warren AFB |
| Stable Guard & shops | 1911 | 39-Q | | 10 b1 | F.E. Warren AFB |
| Stable Guard , 20x21 | 1918 | 620-395 | | 5 a | Manual Cnstr Div |
| Stable Guard House | 1909 | 39-L | | 10 b1 | F.E. Warren AFB |
| Stable Guard House | lleg | 39-C | | 10 b1 | Fort Riley, KS |
| Stable Guard House & Shops | 1909 | 39-G | | 10 b1 | F.E. Warren AFB |
| Stable Guard House, DBL Building | 1905 | 39-C | X | 10 b1 | F.E. Warren AFB |
| Stables | 1938 | 14-7-illegible | X | 10 b1 | Fort Riley, KS |
| Stables | 1938 | 14-9-illegible | X | 10 b1 | Fort Riley, KS |
| Standard All Steel Airplane Hangar | ? | 6342-158 ? | X | 10 a1 | Chief of Air Servc |
| Standard Incinerator | 1918 | SB 8 | X | 6 c | Manual Cnstr Div |
| Standard Laundry, 10-20,000 men | 1918 | SB 20 | | 5 c2 | Manual Cnstr Div |
| Standard Railway Trestle | 1918 | RR-1 | X | 10 d1 | Manual Cnstr Div |
| Standard Steel & Wood Hangars | 1919 | SB 9 | X | 10 a1 | Manual Cnstr Div |
| Station QM Office Boiler Hs. | 1916 | 800-201 | | 6 a | Fort Chaffee |
| Std. Railway Coal Trestle | 1918 | RR-2 | X | 10 d1 | Manual Cnstr Div |
| Std. Timber Coal Pocket | 1918 | RR-3 | X | 10 d1 | Manual Cnstr Div |
| Std. Trestle Bumper, Railways | 1918 | RR-5 | X | 10 d1 | Manual Cnstr Div |
| Storage Depot/admin Bldg, 140x160 | 1918 | 6271-7 | | 5 d1 | Manual Cnstr Div |
| Storage, Vehicles # 3, 161xvar | 1918 | 652-188 | | 10 c2 | Manual Cnstr Div |
| Storage, Vehicles, #1, 113x513 | 1918 | 652-43 | | 10 c2 | Manual Cnstr Div |
| Store House, Divisional, 60x168 | 1918 | SB 16 | X | 5 d1 | Manual Cnstr Div |
| Store House, Mobilization Camps | 1916 | 16-12 | X | 5 d1 | Manual for QMC |
| Store House, Regmtl, 20xvar. | 1918 | 620-318 | | 5 d1 | Manual Cnstr Div |
| Store House, Salvage, 60x168 | 1918 | 620-412 & 413 | | 5 d1 | Manual Cnstr Div |
| Storehouse | 1916 | 700-461 | | 5 d1 | Fort Chaffee |
| Storehouse | 1916 | 800-663 | | 5 d1 | Fort Chaffee |
| Storehouse | 1916 | 800-664 | | 5 d1 | Fort Chaffee |
| Storehouse, General, #1, 161x501 | 1918 | 652-41 | | 5 d1 | Manual Cnstr Div |
| Storehouse, General, #2 | 1918 | 652-74 | | 5 d1 | Manual Cnstr Div |
| Subsistence Storehouse | 1897 | 106 | | 5 d1 | Fort McPherson |
| Teamsters Quarters | 1910 | 258 | | 9 a2 | F.E. Warren AFB |
| Tel. & TeL Bldg. | 1916 | 800-907 | | 2 b | Fort Chaffee |
| Tel. & Teleg. Bldg, 20x70 | 1918 | 620-328 | | 2 b | Manual Cnstr Div |
| Telegraph office & Quarters, 20x110 | 1918 | 620-418 | | 2 b | Manual Cnstr Div |
| Temporary Bldgs for Mob Camps | 1916 | 16-1 | X | 11 a | Manual for QMC |
| Terminal General Plan | 1918 | RR-7 | X | 11a | Manual Cnstr Div |
| Terminals General Plans | 1918 | RR-8 | X | 11a | Manual Cnstr Div |
| Theatre w/Stage | 1916 | 700-1212.1 | | 7 g | Fort Chaffee |
| Theatre, Class a, 120x187 | 1918 | 608-24 | | 7 g | Manual Cnstr Div |
| Theatre, Liberty, Class D | 1918 | 608-31to34&106 | | 7 g | Manual Cnstr Div |
| Transformer Sta. Type 1, 20x36 | 1918 | 652-81 | | 6 a | Manual Cnstr Div |
| Trestle, Coal | 1918 | RR 9 | X | 10 d1 | Fort Lewis, WA |
| Turnout & Crossover, Railways | 1918 | RR-4 | X | 10 d2 | Manual Cnstr Div |
| Typ L'scp Pl'tg: CO & Dbl CO Qtrs | 1935 | 630-100 | X | 11 a | Office of QMG |
| Typ Em'gncy Str'g Whse Toilet Rms | 1918 | SB 10 | X | 5 d1 | Manual Cnstr Div |
| Typ Hospital Kitchen Layouts | 1918 | SB 13 | X | 9 b2 | Manual Cnstr Div |
| Typ L'scp Pl'tg: Th'tre, Hosp, Chpl | 1935 | 630-103 | X | 11 a | Office of QMG |

Sorted by: BUILDING NAME

| BUILDING | DATE | STD_PLAN | DRWNG | TYPE | INSTALLATION |
|-------------------------------------|------|-----------------|-------|-------|------------------|
| Typ. Em'gncy Str'g Whse Admin Bldg | 1918 | SB 26 | X | 5 d1 | Manual Cnstr Div |
| Typ. Hosp Phys Thrpy & Amusmnt Hall | 1918 | SGO-S & T | X | 4 b | Manual Cnstr Div |
| Typ. L'scp Pl'tg: HQ, Admin, BOQ | 1935 | 630-Illegible | X | 11 a | Office of QMG |
| Typical 1 Story Building | 1918 | SB 1 | X | 11a | Manual Cnstr Div |
| Typical 2 Story Building | 1918 | SB 2 | X | 11a | Manual Cnstr Div |
| Typical 2 Story Officers Qtrs | 1918 | SB 5 | X | 9 c2 | Manual Cnstr Div |
| Typical 2 Sty Building, Details | 1918 | SB 3 | X | 11a | Manual Cnstr Div |
| Typical Barracks, 66 Men | 1918 | SB 4 | X | 9 a2 | Manual Cnstr Div |
| Typical Dry Cleaning Plant | 1930 | 633-165 | | 5 c2 | Fort Riley, KS |
| Typical Hosp Admin Bldg | 1918 | SGO-B | X | 4 b | Manual Cnstr Div |
| Typical Hosp General Mess & Kitchen | 1918 | SGO-I1 & I32 | X | 4 b | Manual Cnstr Div |
| Typical Hosp General Mess & Kitchen | 1918 | SGO-I28 | X | 4 b | Manual Cnstr Div |
| Typical Hosp Laboratory Bldg | 1918 | SGO-F | X | 4 b | Manual Cnstr Div |
| Typical Hosp Operating Pavillion | 1918 | SGO-G | X | 4 b | Manual Cnstr Div |
| Typical Hosp Receiving Ward | 1918 | SGO-J | X | 4 b | Manual Cnstr Div |
| Typical Hosp Single Wards | 1918 | SGO-K1 | X | 4 b | Manual Cnstr Div |
| Typical Hosp Single Wards | 1918 | SGO-K34 | X | 4 b | Manual Cnstr Div |
| Typical Hosp Single Wards | 1918 | SGO-K35 | X | 4 b | Manual Cnstr Div |
| Typical Lavatories | 1918 | SB 6 | X | 9 b1 | Manual Cnstr Div |
| Typical Lavatories Details | 1918 | SB 7 | X | 9 b1 | Manual Cnstr Div |
| Typical Mess Buildings | 1918 | SB 15 | X | 9 b2 | Manual Cnstr Div |
| Typical Street Tree Planting | 1935 | 630-102 | X | 11 a | Office of QMG |
| Unit Guardhouse | 1916 | 700-260 | | 1 b | Fort Chaffee |
| Unit Guardhouse | 1916 | 700-260.1 | | 1 b | Fort Chaffee |
| Utility Office | 1931 | 59-U | | 6 b | F.E. Warren AFB |
| Vehicle Shed | 1910 | 60-H | | 10 c2 | F.E. Warren AFB |
| Vehicle Shelter, Mobilization Camps | 1916 | 16-18 | X | 10 c2 | Manual for QMC |
| Veterinary Hospital | 1908 | 166 | | 10 b1 | F.E. Warren AFB |
| Wagon Shed | 1906 | 60-G | | 10 b1 | F.E. Warren AFB |
| War Dept Theater | 1939 | 608-360 - 366 | | 7 g | Fort D.A. Russel |
| War Dept Theatre | 1939 | 608-360 to 366 | | 7 g | F.E. Warren AFB |
| War Dept Theatre, 85x49 | 1939 | 6217-105 to 107 | | 7 g | Fort McPherson |
| Ward Building, Mobilization Camps | 1916 | 16-14 | X | 4 b | Manual for QMC |
| Ward Combination | 1916 | 700-463 | | 4 b | Fort Chaffee |
| Warehouse (Insulated) | 1916 | 800-654 | | 5 d1 | Fort Chaffee |
| Warehouse, Clothing, 60x100 | 1918 | 620-385 & 386 | | 5 d1 | Manual Cnstr Div |
| Waste & Transfer Station, 20x130 | 1918 | 620-432 | | 6 c | Manual Cnstr Div |
| Water Tank (tower) | 1903 | 68-C | | 6 b | F.E. Warren AFB |
| Welfare Bldg, 84x96 | 1918 | 6399-120 | | 1 c | Manual Cnstr Div |
| X-Ray Building | 1916 | 700-462 | | 4 b | Fort Chaffee |

Sorted by: DATE

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|------------------------------------|-------|---------------|-------|-------|
| Chief of Air Ser | Standard All Steel Airplane Hangar | None | 6342-158 ? | X | 10 a1 |
| Fort McPherson | Film Vault, size illegible | None | 6217-127? | | 5 d1 |
| Fort Riley, KS | Stable Guard House | Illeg | 39-C | | 10 b1 |
| F.E. Warren AFB | Double Set N.C.S.O. Quarters | 1885 | 82-D | | 9 c1 |
| F.E. Warren AFB | Officers Quarters | 1888 | (Illegible)2 | | 9 c2 |
| Fort McPherson | Guard House, 60x85 | 1891 | 9 | | 1 b |
| Fort McPherson | Magazine, 12x15, brick | 1893 | 46 | | 5 d2 |
| Fort McPherson | Mess Hall, 144x177, 800 men | 1893 | 42 | | 9 b2 |
| Fort Riley, KS | Cavalry Stable Guard Building | 1896 | George Ruhlen | X | 1 b |
| Fort Riley, KS | Artillery Barracks, 80 Men | 1896 | Geo. E. Pond | X | 9 a2 |
| Fort McPherson | Ordnance Storehouse, 30x50 | 1897 | 103-A | | 5 d1 |
| Fort McPherson | Subsistence Storehouse | 1897 | 106 | | 5 d1 |
| Fort McPherson | Hose House, 30x50 | 1898 | Post | | 6 b |
| F.E. Warren AFB | Q.M. Barracks for M.T. | 1900 | 53-D | | 9 a2 |
| F.E. Warren AFB | Post Guard House | 1901 | 30-C | | 1 b |
| Fort Riley, KS | Bakery | 1902 | 49H | X | 5 c1 |
| Fort Riley, KS | B.O.Q | 1902 | 152 | X | 9 a1 |
| Fort Riley, KS | Cavalry Barracks | 1902 | 75 | X | 9 a2 |
| Fort Riley, KS | Double Quarters for Officer | 1902 | SPL 3-368 | X | 9 c2 |
| Fort Riley, KS | Officers Quarters | 1902 | SPL 3-381 | | 9 c2 |
| F.E. Warren AFB | Post Bakery | 1903 | 1-1180 | | 5 c1 |
| F.E. Warren AFB | Water Tank (tower) | 1903 | 68-C | | 6 b |
| F.E. Warren AFB | C.O.'s Quarters | 1903 | 95-A | | 9 c2 |
| F.E. Warren AFB | Artillery Stables | 1904 | 139-C | | 10 b1 |
| F.E. Warren AFB | Artillery Workshop | 1904 | 59-K | | 5 a |
| F.E. Warren AFB | Coal Shed | 1904 | 67-B | | 5 d1 |
| Fort McPherson | BOQ, 33x140, 33x45, 12x33 | 1904 | 152-B | X | 9 a1 |
| F.E. Warren AFB | Artillery Barracks | 1904 | 150 | | 9 a2 |
| Fort McPherson | Double barracks, 39x150 | 1904 | 75-G | | 9 a2 |
| F.E. Warren AFB | Stable Guard House, DBL Building | 1905 | 39-C | X | 10 b1 |
| Fort Riley, KS | Commissary Store House | 1905 | A-19-1 | X | 5 d1 |
| F.E. Warren AFB | Light Battery Gun Shed | 1905 | 104 | | 5 d2 |
| Fort McPherson | Boiler/Pump House | 1905 | 132-H | | 6 a |
| F.E. Warren AFB | Pump House (& N.C.O. Quarters) | 1905 | 132-E | | 6 b |
| F.E. Warren AFB | Post Exchange | 1905 | 158 | | 7 f |
| F.E. Warren AFB | Hospital Sergant's Quarters | 1905 | Unknown | | 9 c1 |
| F.E. Warren AFB | Double Set Officer's Quarters | 1905 | 120-C | | 9 c2 |
| F.E. Warren AFB | Double Set Officers Quarters | 1905 | 120-D | | 9 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1905 | 145 | | 9 c2 |

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| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|-----------------------------------|------|--------------|-------|-------|
| F.E. Warren AFB | Double Set Officer's Quarters | 1905 | 90 | | 9 c2 |
| Fort Riley, KS | Quarters for Field Officer | 1905 | 145-D | X | 9 c2 |
| F.E. Warren AFB | Cavalry Stable | 1906 | 139 | | 10 b1 |
| F.E. Warren AFB | Wagon Shed | 1906 | 60-G | | 10 b1 |
| Fort Riley, KS | Post Exchange & Gymnasium | 1906 | 174 | X | 7 a |
| F.E. Warren AFB | Nurses Quarters | 1906 | 152-E | | 9 a1 |
| Fort McPherson | Dbl Mess Hall & Kit, 140x42, | 1906 | 93-K | | 9 b2 |
| F.E. Warren AFB | Double Officers Quarters | 1906 | 142-A | | 9 c2 |
| F.E. Warren AFB | Post & Telegraph Office | 1907 | 177 | | 1 d |
| F.E. Warren AFB | Cavalry Drill Hall | 1907 | 97-A | | 3 b |
| Fort Riley, KS | Granary | 1907 | 193 | X | 5 d1 |
| Fort Riley, KS | Lab Building for Vet Hosp | 1907 | A-14-16 | X | 8 a |
| Fort Riley, KS | Band Barracks | 1907 | 61-F | X | 9 a2 |
| Fort Riley, KS | Quarters for Two Lieutanants | 1907 | 120-H | X | 9 c2 |
| Fort Riley, KS | Artillery Guard House | 1908 | A-13-9 | X | 1 b |
| F.E. Warren AFB | Artillery or Infantry Stables | 1908 | 139-K | | 10 b1 |
| F.E. Warren AFB | Stable for Inf. & Officers Mounts | 1908 | 139-Q | | 10 b1 |
| F.E. Warren AFB | Veterinary Hospital | 1908 | 166 | | 10 b1 |
| Fort McPherson | Quartermaster Stable, 129x67 | 1908 | 139-H | | 10 b1 |
| F.E. Warren AFB | Artillery Shop | 1908 | 59-V | | 5 a |
| F.E. Warren AFB | Q.M. Forage Storehouse | 1908 | 53-A | | 5 d1 |
| F.E. Warren AFB | Light Battery Gun Shed | 1908 | 104-F | | 5 d2 |
| F.E. Warren AFB | Crematory | 1908 | 1-620-B | | 6 c |
| Fort D.A. Russel | Crematory | 1908 | 1-620-B | | 6 c |
| F.E. Warren AFB | Bachelor Officers Quarters | 1908 | 152-G | | 9 a1 |
| F.E. Warren AFB | Artillery Barracks | 1908 | 181 | | 9 a2 |
| Fort D.A. Russel | Hosp Corps Bar. | 1908 | 1-729-S.P.S. | | 9 a2 |
| F.E. Warren AFB | Fire Station | 1909 | 98-E | | 1 a |
| F.E. Warren AFB | Fire Station | 1909 | 98-G | | 1 a |
| F.E. Warren AFB | Post Headquarters | 1909 | 1-729 S.P.S. | | 1 c |
| F.E. Warren AFB | Hay Shed | 1909 | 102-G | | 10 b1 |
| F.E. Warren AFB | Stable Guard House & Shops | 1909 | 39-G | | 10 b1 |
| F.E. Warren AFB | Stable Guard House | 1909 | 39-L | | 10 b1 |
| F.E. Warren AFB | Stable Guard & Shops | 1909 | 39-N | | 10 b1 |
| F.E. Warren AFB | Dispensary (Cavalry) | 1909 | 247 | | 4 a |
| F.E. Warren AFB | Cavalry Granary | 1909 | 193-A | | 5 d1 |
| F.E. Warren AFB | Coal Shed | 1909 | 67-J | | 5 d1 |
| F.E. Warren AFB | Q.M. Store House, Artillery | 1909 | 198 | | 5 d2 |
| F.E. Warren AFB | Artillery Gun Shed | 1909 | 209 | | 5 d2 |
| Fort McPherson | Electric Sub Station, 10x12 | 1909 | 4-936 | | 6 a |
| F.E. Warren AFB | Cavalry Band Barracks | 1909 | 61-F | | 9 a2 |
| F.E. Warren AFB | N.C.O. Quarters | 1909 | 82-K | | 9 c1 |
| Fort Riley, KS | Quarters for Civilian Employees | 1909 | 258 | X | 9 c1 |
| Fort Riley, KS | Four Set Civillian's Quarters | 1909 | 82-N | X | 9 c1 |
| F.E. Warren AFB | Double Lieutenants Quarters | 1909 | 120-F | | 9 c2 |
| F.E. Warren AFB | Double Officers Quarters | 1909 | 142-B | | 9 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1909 | 145-D | | 9 c2 |
| Fort D.A. Russel | Field Officers Qtrs | 1909 | 215 | | 9 c2 |

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| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|------------------------------------|------|-------------|-------|-------|
| Fort Riley, KS | Officers Quarters 4 Officers | 1909 | 237-A | X | 9 c2 |
| Fort McPherson | Quartermaster Stable, 145x67 | 1910 | 139-L | | 10 b1 |
| F.E. Warren AFB | Vehicle Shed | 1910 | 60-H | | 10 c2 |
| F.E. Warren AFB | Ammunition Storehouse | 1910 | 262 | | 5 d2 |
| F.E. Warren AFB | Powder Magazine | 1910 | 263 | | 5 d2 |
| F.E. Warren AFB | Ice House | 1910 | 196-A | | 6 b |
| F.E. Warren AFB | Artillery Exchange | 1910 | 122-B | | 7 f |
| F.E. Warren AFB | Cavalry Post Exchange | 1910 | 122-b | | 7 f |
| F.E. Warren AFB | Commissary Building | 1910 | 186 | | 7 f |
| F.E. Warren AFB | Bachelor Officers Quarters | 1910 | 152-L | | 9 a1 |
| F.E. Warren AFB | Teamsters Quarters | 1910 | 258 | | 9 a2 |
| F.E. Warren AFB | Cavalry Barracks | 1910 | 75-M | | 9 a2 |
| F.E. Warren AFB | Officers Quarters | 1910 | 120-H | | 9 c2 |
| F.E. Warren AFB | Officers Quarters | 1910 | 142-D | | 9 c2 |
| F.E. Warren AFB | Field Officers Quarters | 1910 | 145-F | | 9 c2 |
| F.E. Warren AFB | Guard House | 1911 | 206 | | 1 b |
| F.E. Warren AFB | Administration Building | 1911 | 112-F | | 1 c |
| F.E. Warren AFB | Admin Building (Artillery) | 1911 | 122-F | | 1 c |
| F.E. Warren AFB | Stable Guard & shops | 1911 | 39-Q | | 10 b1 |
| F.E. Warren AFB | Laundry | 1911 | 234-B | | 5 c2 |
| F.E. Warren AFB | Laundry | 1911 | 243-B | | 5 c2 |
| F.E. Warren AFB | Band Stand, Cavalry & Artillery | 1911 | 64-B | | 7 g |
| F.E. Warren AFB | Civillian Employees Quarters | 1911 | 82-P | | 9 c1 |
| F.E. Warren AFB | Field Officers Quarters | 1911 | 235-A | | 9 c2 |
| F.E. Warren AFB | 4 Set Officers Quarters | 1911 | 237-B | | 9 c2 |
| Fort D.A. Russel | 4-Set Officers Qtrs | 1911 | 267-B | | 9 c2 |
| F.E. Warren AFB | Hospital Corps Barracks | 1912 | 276 | | 9 a2 |
| Fort D.A. Russel | Hospital Corps Barracks | 1912 | 2-76 | | 9 a2 |
| Fort Chaffee | Fire Station | 1916 | 800-800 | | 1 a |
| Fort Chaffee | Unit Guardhouse | 1916 | 700-260 | | 1 b |
| Fort Chaffee | Unit Guardhouse | 1916 | 700-260.1 | | 1 b |
| Manual for QMC | Guard House, Mobilization Camps | 1916 | 16-11 | X | 1 b |
| Fort Chaffee | Fld. Office | 1916 | 7093-451 | | 1 c |
| Fort Chaffee | Administration Bldg. (Hosp.) | 1916 | 800-1417 | | 1 c |
| Fort Chaffee | Administration Bldg. | 1916 | 800-204 | | 1 c |
| Fort Chaffee | Sta. HQ. Office | 1916 | 800-214 | | 1 c |
| Fort Chaffee | Sm Finance. Bldg. | 1916 | 800-219 | | 1 c |
| Fort Chaffee | Med. Detachment Admin. Bldg. | 1916 | 800-A101210 | | 1 c |
| Manual for QMC | Admin Building, Mobilization Camps | 1916 | 16-10 | X | 1 c |
| Fort Chaffee | Post Office | 1916 | 800-217 | | 1 d |
| Manual for QMC | Animal Shelter, Mobilization Camps | 1916 | 16-17 | X | 10 b1 |
| Fort Chaffee | Gas Sta. & Pump House | 1916 | 800-601 | | 10 c1 |
| Fort Chaffee | Motor Repair Shop | 1916 | 700-1390 | | 10 c2 |
| Fort Chaffee | Motor School | 1916 | 700-374 | | 10 c2 |
| Fort Chaffee | Motor Repair Shop | 1916 | 700+A42-374 | | 10 c2 |
| Fort Chaffee | Grease Rack & Insp. Rack | 1916 | 800-1026 | | 10 c2 |
| Fort Chaffee | Motor Repair Shop | 1916 | 800-606 | | 10 c2 |
| Fort Chaffee | Dispatching House | 1916 | 800-661 | | 10 c2 |

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| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|----------------|-------------------------------------|------|------------|-------|-------|
| Manual for QMC | Vehicle Shelter, Mobilization Camps | 1916 | 16-18 | X | 10 c2 |
| Manual for QMC | Temporary Bldgs for Mob Camps | 1916 | 16-1 | X | 11 b |
| Fort Chaffee | Radio Range Bldg. | 1916 | 800-905 | | 2 a |
| Fort Chaffee | Tel. & TeL Bldg. | 1916 | 800-907 | | 2 b |
| Fort Chaffee | Dental Clinic | 1916 | 700-467 | | 4 a |
| Fort Chaffee | Clinic | 1916 | 700-476 | | 4 a |
| Fort Chaffee | Clinic | 1916 | 700-484 | | 4 a |
| Fort Chaffee | Infirmary | 1916 | 800-1429 | | 4 a |
| Fort Chaffee | Dental Clinic | 1916 | 800-1445 | | 4 a |
| Fort Chaffee | Clinic | 1916 | 800-1513 | | 4 a |
| Fort Chaffee | Physiotherapy | 1916 | 700-348 | | 4 b |
| Fort Chaffee | X-Ray Building | 1916 | 700-462 | | 4 b |
| Fort Chaffee | Ward Combination | 1916 | 700-463 | | 4 b |
| Fort Chaffee | Recreation Bldg. Patients | 1916 | 700-520 | | 4 b |
| Fort Chaffee | Morgue | 1916 | 800-1454 | | 4 b |
| Fort Chaffee | Detention Ward | 1916 | 800.-1424 | | 4 b |
| Manual for QMC | Hospital, Mobilization Camps | 1916 | 16-13 | X | 4 b |
| Manual for QMC | Ward Building, Mobilization Camps | 1916 | 16-14 | X | 4 b |
| Fort Chaffee | Ordnance Shop w/crane | 1916 | 652-419 | | 5 a |
| Fort Chaffee | Ordnance Shop Boiler House | 1916 | 652-423 | | 5 a |
| Fort Chaffee | C & E Repair Shop | 1916 | 800-1000 | | 5 a |
| Fort Chaffee | Q.M. Utility Shop | 1916 | 800-603 | | 5 a |
| Fort Riley, KS | Shop Building | 1916 | 407 | X | 5 a |
| Fort Chaffee | Bakery | 1916 | 800-682 | | 5 c1 |
| Manual for QMC | Field Bakery, Mobilization Camps | 1916 | 16-16 | X | 5 c1 |
| Fort Chaffee | Laundry | 1916 | 800-1029 | | 5 c2 |
| Fort Chaffee | Laundry Steam Plant | 1916 | 800-1619 | | 5 c2 |
| Fort Chaffee | Cold Storage | 1916 | 700-1265R | | 5 d1 |
| Fort Chaffee | Storehouse | 1916 | 700-461 | | 5 d1 |
| Fort Chaffee | Fld. Office Water Stg. Tank | 1916 | 7093-454.2 | | 5 d1 |
| Fort Chaffee | Rm. & Storage Bays | 1916 | 800-607 | | 5 d1 |
| Fort Chaffee | Salvage Warehouse | 1916 | 800-652 | | 5 d1 |
| Fort Chaffee | Warehouse (Insulated) | 1916 | 800-654 | | 5 d1 |
| Fort Chaffee | Storehouse | 1916 | 800-663 | | 5 d1 |
| Fort Chaffee | Storehouse | 1916 | 800-664 | | 5 d1 |
| Fort Chaffee | Ice Storage | 1916 | 800-777 | | 5 d1 |
| Manual for QMC | Store House, Mobilization Camps | 1916 | 16-12 | X | 5 d1 |
| Fort Chaffee | Magazines igloo type | 1916 | 642-535 | | 5 d2 |
| Fort Chaffee | Magazines igloo type | 1916 | 652-535 | | 5 d2 |
| Fort Chaffee | Armament | 1916 | 800-210 | | 5 d2 |
| Fort Chaffee | Oil House 25x 49' | 1916 | 700-323 | | 6 a |
| Fort Chaffee | Oil Shed | 1916 | 700-384 | | 6 a |
| Fort Chaffee | Heating Plant | 1916 | 7093-501 | | 6 a |
| Fort Chaffee | Station QM Office Boiler Hs. | 1916 | 800-201 | | 6 a |
| Fort Chaffee | Incinerator | 1916 | 414/43/330 | | 6 c |
| Fort Chaffee | Recreational Bldg. | 1916 | 700-310 | | 7 a |
| Fort Chaffee | Nurses Recreation Room | 1916 | 800-451 | | 7 a |
| Fort Chaffee | Med. Detachment Recr. | 1916 | 800-459 | | 7 a |
| Fort Chaffee | Recreation Bldg. | 1916 | 800-460 | | 7 a |
| Fort Chaffee | Sports Arena | 1916 | 800-465 | | 7 b |
| Fort Chaffee | Chapel | 1916 | 700-1800 | | 7 c |
| Fort Chaffee | Service Club | 1916 | 700-1775 | | 7 d |

Sorted by: DATE

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|--------------------------------------|------|---------------|-------|-------|
| Fort Chaffee | Officers' Club | 1916 | 800-809 | | 7 d |
| Fort Chaffee | Exchange | 1916 | 700-297 | | 7 f |
| Fort Chaffee | Post Exchange | 1916 | 800-1412 | | 7 f |
| Manual for QMC | Post Exchange, Mobilization Camps | 1916 | 16-15 | X | 7 f |
| Fort Chaffee | Theatre w/Stage | 1916 | 700-1212.1 | | 7 g |
| Fort Chaffee | Nurses' Quarters | 1916 | 700-1240 | | 9 a1 |
| Fort Chaffee | Guest House | 1916 | 700-1290 | | 9 a1 |
| Manual for QMC | Officers Quarters, Lge, Mob. Camps | 1916 | 16-2 | X | 9 a1 |
| Manual for QMC | Officers Quarters, Sml, Mob. Camps | 1916 | 16-3 | X | 9 a1 |
| Fort Chaffee | Med. Detachment Barracks | 1916 | 700-1204 | | 9 a2 |
| Fort Chaffee | Prisoner's Barracks | 1916 | 800-443 | | 9 a2 |
| Manual for QMC | NCO Barracks, Mobilization Camps | 1916 | 16-4 | X | 9 a2 |
| Manual for QMC | Barrack, Enl'std Men, Mob. Camps | 1916 | 16-5 | X | 9 a2 |
| Fort Chaffee | Lavatory | 1916 | 700-285 | | 9 b1 |
| Manual for QMC | Latrine, Mobilization Camps | 1916 | 16-8 | X | 9 b1 |
| Manual for QMC | Bath House, Mobilization Camps | 1916 | 16-9 | X | 9 b1 |
| Fort Chaffee | Officers Mess | 1916 | 700-1127 | | 9 b2 |
| Fort Chaffee | Mess Patients | 1916 | 700-44+A476 | | 9 b2 |
| Fort Chaffee | Medical Detachment Mess | 1916 | 700-446 | | 9 b2 |
| Fort Chaffee | Officers' Mess | 1916 | 700-450 | | 9 b2 |
| Fort Chaffee | Nurses' Mess | 1916 | 700-451 | | 9 b2 |
| Fort Chaffee | 152 Man Mess | 1916 | 7093-921 | | 9 b2 |
| Fort Chaffee | 112 Man Mess | 1916 | 800-847 | | 9 b2 |
| Fort Chaffee | E.M. Mess | 1916 | 800-849 | | 9 b2 |
| Fort Chaffee | E.M. Mess (M-248 less one 8'bay) | 1916 | 800-851 | | 9 b2 |
| Manual for QMC | Kit. & Dining Rm, 72 Men, Mob. Camps | 1916 | 15-6 | X | 9 b2 |
| Manual for QMC | Mess Building, Mobilization Camps | 1916 | 16-6 | X | 9 b2 |
| Manual for QMC | Kitchen, Mobilization Camps | 1916 | 16-7 | X | 9 b2 |
| Fort Chaffee | Officers' Quarters | 1916 | 700-1254 | | 9 c2 |
| Fort Chaffee | Officers' Quarters | 1916 | 700-1257 | | 9 c2 |
| Fort Chaffee | Officers' Quarters | 1916 | 800-306 | | 9 c2 |
| Fort Chaffee | Officers' Quarters | 1916 | 800-307 | | 9 c2 |
| | | | | | |
| Manual Cnstr Div | Fire Station, 24'x77' | 1918 | 620-341 | | 1 a |
| Manual Cnstr Div | Fire Station, 31'x88' | 1918 | 620-365 | | 1 a |
| Manual Cnstr Div | Fire Station, 31'x88' | 1918 | 620-441 | | 1 a |
| Manual Cnstr Div | Fire Station, 31'x103 | 1918 | 620-447 | | 1 a |
| Manual Cnstr Div | Guard house, Regimental 20'x56' | 1918 | 620-331 | | 1 b |
| Manual Cnstr Div | Guard House, Type 1, 20x56 | 1918 | 652-214 | | 1 b |
| Manual Cnstr Div | Admin. Building, 20' x 84' | 1918 | 620-327 | | 1 c |
| Manual Cnstr Div | Administration Building, 20'x49' | 1918 | 620-356 | | 1 c |
| Manual Cnstr Div | Welfare Bldg, 84x96 | 1918 | 6399-120 | | 1 c |
| Manual Cnstr Div | Post Office Building, 32x51 | 1918 | 620-374 | | 1 d |
| Manual Cnstr Div | Cantonment: R'mnt Sta 7500 Animals | 1918 | 404-48 | X | 10 b1 |
| Manual Cnstr Div | Stable - open 24xvar. | 1918 | 620-376 | | 10 b1 |
| Manual Cnstr Div | Hay Shed, 60'x165' | 1918 | 620-378 | | 10 b1 |
| Manual Cnstr Div | Stable - closed, 29xvar. | 1918 | SB 17 | X | 10 b1 |
| Manual Cnstr Div | Auto & Mtr Serv Sta, 35'x41' | 1918 | 620-397 | | 10 c1 |
| Manual Cnstr Div | Shop, Motor Repair, 60x130 | 1918 | 620-387 & 388 | | 10 c2 |
| Manual Cnstr Div | Shop, Motor Repair, 75x96 | 1918 | 620-478 & 479 | | 10 c2 |
| Manual Cnstr Div | Storage, Vehicles # 3, 161xvar | 1918 | 652-188 | | 10 c2 |
| Manual Cnstr Div | Storage, Vehicles, #1, 113x513 | 1918 | 652-43 | | 10 c2 |

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|------------------|-------------------------------------|------|----------------|-------|-------|
| Fort Lewis, WA | Trestle, Coal | 1918 | RR 9 | X | 10 d1 |
| Manual Cnstr Div | Standard Railway Trestle | 1918 | RR-1 | X | 10 d1 |
| Manual Cnstr Div | Std. Railway Coal Trestle | 1918 | RR-2 | X | 10 d1 |
| Manual Cnstr Div | Std. Timber Coal Pocket | 1918 | RR-3 | X | 10 d1 |
| Manual Cnstr Div | Std. Trestle Bumper, Railways | 1918 | RR-5 | X | 10 d1 |
| Manual Cnstr Div | Turnout & Crossover, Railways | 1918 | RR-4 | X | 10 d2 |
| Manual Cnstr Div | Roadbed Sectons, Railways | 1918 | RR-6 | X | 10 d2 |
| Manual Cnstr Div | Cantonment: Div HQ | 1918 | 610-221 & 227 | X | 11 a |
| Manual Cnstr Div | Cantonment: Rgmt Inf, Brigd HQ | 1918 | 610-222 | X | 11 a |
| Manual Cnstr Div | Cantonment: Rgmt Lt Art'ly | 1918 | 610-225 | X | 11 a |
| Manual Cnstr Div | Contonment: Rgmt Hvy Art'ly | 1918 | 610-226 | X | 11 a |
| Manual Cnstr Div | Cantonment: Camp Center | 1918 | 610-232 | X | 11 a |
| Manual Cnstr Div | Cantonment: Depot Brgd HQ | 1918 | 610-233 | X | 11 a |
| Manual Cnstr Div | Cantonment: RR Terminal | 1918 | 610-238 | X | 10 d1 |
| Manual Cnstr Div | Cantonment: Qrnt'n Camp 1000 men | 1918 | 610-274 | X | 11 a |
| Manual Cnstr Div | Road Cross Section, Typical | 1918 | LA-1 | X | 10 c2 |
| Manual Cnstr Div | Elec Distrib Syst, Street Lighting | 1918 | SB 11 | X | 6a |
| Manual Cnstr Div | Elec Distrib Syst, 2ndary Lines | 1918 | SB 12 | X | 6a |
| Manual Cnstr Div | Northern & Southern Constr Zones | 1918 | 620-320-2-182 | X | 11a |
| Manual Cnstr Div | Typical 1 Story Building | 1918 | SB 1 | X | 11a |
| Manual Cnstr Div | Typical 2 Story Building | 1918 | SB 2 | X | 11a |
| Manual Cnstr Div | Typical 2 Sty Building, Details | 1918 | SB 3 | X | 11a |
| Manual Cnstr Div | Road Cross Sections, Typical | 1918 | LA-2 | X | 10c2 |
| Manual Cnstr Div | Terminal General Plan | 1918 | RR-7 | X | 11a |
| Manual Cnstr Div | Terminals General Plans | 1918 | RR-8 | X | 11a |
| Manual Cnstr Div | Tel. & Teleg. Bldg, 20x70 | 1918 | 620-328 | | 2 b |
| Manual Cnstr Div | Telegraph office & Quarters. 20x110 | 1918 | 620-418 | | 2 b |
| Manual Cnstr Div | Gas Instruction, 16x30 | 1918 | 6143-2 | | 3 a |
| Manual Cnstr Div | Classroom Building, 30' x 60' | 1918 | 620-450 | | 3 a |
| Manual Cnstr Div | Classroom Building, 49'x150 | 1918 | 620-469 & 470 | | 3 a |
| Manual Cnstr Div | Classroom Building, 30'x60' | 1918 | 620-507 | | 3 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x63' | 1918 | 620-302 | | 4 a |
| Manual Cnstr Div | Infirmary & Dental Ops Bldg. 30'x88 | 1918 | 620-307 & 308 | | 4 a |
| Manual Cnstr Div | Infirm./Dntl Dorm Bldg, 30'x88' | 1918 | 620-310 & 311 | | 4 a |
| Manual Cnstr Div | Infirmary - Medical, Addition, 24'x | 1918 | 620-333 | | 4 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x77' | 1918 | 620-368 to 375 | | 4 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x105' | 1918 | 620-382 | | 4 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x112' | 1918 | 620-383 & 384 | | 4 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x98' | 1918 | 620-392 & 393 | | 4 a |
| Manual Cnstr Div | Infirmary - Medical, 30'x56' | 1918 | 620-449 | | 4 a |
| Manual Cnstr Div | Delousing Plant, 48x84 | 1918 | 632-551 | | 4 a |
| Manual Cnstr Div | Delousing Plant, 60x204 | 1918 | 632-552 | | 4 a |
| Manual Cnstr Div | Recruit Exam. Bldg / Shop | 1918 | SB 19 | X | 4 a |
| Manual Cnstr Div | Delousing Plant, 54x120 | 1918 | SB 21 | X | 4 a |
| Manual Cnstr Div | Detention Hut, 20'x20' | 1918 | 620-326 | | 4 b |
| Manual Cnstr Div | Garage for Ambulances, 22'x47' | 1918 | 620-496 | | 4 b |
| Manual Cnstr Div | Hospital Typ Kitchen Layouts | 1918 | SB 14 | X | 4 b |
| Manual Cnstr Div | Layout: Hospital | 1918 | SGO-A | X | 4 b |
| Manual Cnstr Div | Layout: Head House | 1918 | SGO-A1 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Admin Bldg | 1918 | SGO-B | X | 4 b |
| Manual Cnstr Div | Typical Hosp Laboratory Bldg | 1918 | SGO-F | X | 4 b |
| Manual Cnstr Div | Typical Hosp Operating Pavillion | 1918 | SGO-G | X | 4 b |

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|------------------|-------------------------------------|------|---------------|-------|------|
| Manual Cnstr Div | Typical Hosp General Mess & Kitchen | 1918 | SGO-I1 & I32 | X | 4 b |
| Manual Cnstr Div | Typical Hosp General Mess & Kitchen | 1918 | SGO-I28 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Receiving Ward | 1918 | SGO-J | X | 4 b |
| Manual Cnstr Div | Typical Hosp Single Wards | 1918 | SGO-K1 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Single Wards | 1918 | SGO-K34 | X | 4 b |
| Manual Cnstr Div | Typical Hosp Single Wards | 1918 | SGO-K35 | X | 4 b |
| Manual Cnstr Div | Typ. Hosp Phys Thrpy & Amusmnt Hall | 1918 | SGO-S & T | X | 4 b |
| Manual Cnstr Div | Shop, 20x36 | 1918 | 620-372 | | 5 a |
| Manual Cnstr Div | Shop, Clothing etc 30x102 | 1918 | 620-381 | | 5 a |
| Manual Cnstr Div | Shop, QMaster, 2 bldgs each, 36x106 | 1918 | 620-390 | | 5 a |
| Manual Cnstr Div | Stable Guard , 20x21 | 1918 | 620-395 | | 5 a |
| Manual Cnstr Div | Shop, Cot repair, 40x36 | 1918 | 620-436 | | 5 a |
| Manual Cnstr Div | Shop, Clothing, etc, 60x100 | 1918 | 620-437 | | 5 a |
| Manual Cnstr Div | Shop, Tent Treating, 36x40 | 1918 | 620-439 | | 5 a |
| Manual Cnstr Div | Shop, Tent Repair, 40x60 | 1918 | 620-440 | | 5 a |
| Manual Cnstr Div | Shop, Clothing, etc 28x132, 28x162 | 1918 | 620-467 | | 5 a |
| Manual Cnstr Div | Ordnanace Repair Shop 30x106 | 1918 | 620-508 | | 5 a |
| Manual Cnstr Div | Shop, Ordnanace Repair, 30x80 | 1918 | 652-19 | | 5 a |
| Manual Cnstr Div | Rendering Plant, 32x48 | 1918 | 620-435 | | 5 b |
| Manual Cnstr Div | Coffee Roasting & Grinding Plant | 1918 | 620-490 & 491 | | 5 b |
| Manual Cnstr Div | Pyrotech Plant Type D, 20x35 | 1918 | 652-152 | | 5 b |
| Manual Cnstr Div | Pyrotech Plant Type 1 & 2, 30x161 | 1918 | 652-157 | | 5 b |
| Manual Cnstr Div | Pyrotech Plant Type J & J1, 20x35 | 1918 | 652-158 | | 5 b |
| Manual Cnstr Div | Refrigerating & Ice Making Plant | 1918 | SB 28 | X | 5 b |
| Manual Cnstr Div | Bakery, 30'x70' | 1918 | 620-340 | | 5 c1 |
| Manual Cnstr Div | Bakery, 40'x136 & 51'x62' | 1918 | 620-361 & 362 | | 5 c1 |
| Manual Cnstr Div | Bakery, 40'x136' | 1918 | 620-379 | | 5 c1 |
| Manual Cnstr Div | Bakery, 30'x50' | 1918 | 620-428 | | 5 c1 |
| Manual Cnstr Div | Bakery 33'x51' | 1918 | 620-505 | | 5 c1 |
| Manual Cnstr Div | Laundry, 72x216, 5-10,000 men | 1918 | 633-130 | | 5 c2 |
| Manual Cnstr Div | Laundry, 36x108, 1-2,000 men | 1918 | 633-140 | | 5 c2 |
| Manual Cnstr Div | Standard Laundry, 10-20,000 men | 1918 | SB 20 | | 5 c2 |
| Manual Cnstr Div | Store House, Regmtl, 20xvar. | 1918 | 620-318 | | 5 d1 |
| Manual Cnstr Div | Warehouse, Clothing, 60x100 | 1918 | 620-385 & 386 | | 5 d1 |
| Manual Cnstr Div | Store House, Salvage, 60x168 | 1918 | 620-412 & 413 | | 5 d1 |
| Manual Cnstr Div | Storage Depot/admin Bldg, 140x160 | 1918 | 6271-7 | | 5 d1 |
| Manual Cnstr Div | Storehouse, General, #1, 161x501 | 1918 | 652-41 | | 5 d1 |
| Manual Cnstr Div | Storehouse, General, #2 | 1918 | 652-74 | | 5 d1 |
| Manual Cnstr Div | Typ Em'gncy Str'g Whse Toilet Rms | 1918 | SB 10 | X | 5 d1 |
| Manual Cnstr Div | Store House, Divisional, 60x168 | 1918 | SB 16 | X | 5 d1 |
| Manual Cnstr Div | Emg'ncy Whse C'prtmt & Group Plan | 1918 | SB 25 | X | 5 d1 |
| Manual Cnstr Div | Typ. Em'gncy Str'g Whse Admin Bldg | 1918 | SB 26 | X | 5 d1 |
| Manual Cnstr Div | Emg'ncy Whse, Open Shed | 1918 | SB 27 | X | 5 d1 |
| Manual Cnstr Div | Magazine, Black P'wdr, 16x22 | 1918 | 6196-104 | | 5 d2 |
| Manual Cnstr Div | Shed - Wagon or Gun, 29xvar. | 1918 | 620-332 | | 5 d2 |
| Manual Cnstr Div | Magazine, 20'x20' | 1918 | 620-370 | | 5 d2 |
| Manual Cnstr Div | Magazine, 24'x60' | 1918 | 620-371 | | 5 d2 |
| Manual Cnstr Div | Magazine, brick w/corr steel rf, 10 | 1918 | 620-452 | | 5 d2 |
| Manual Cnstr Div | Magazine, Smokeless pwdr, 32x96 | 1918 | 652-146 | | 5 d2 |
| Manual Cnstr Div | Shed, Dock, 60x122 | 1918 | 652-165 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 13, 26x42 | 1918 | 652-169 | | 5 d2 |
| Manual Cnstr Div | Primer & Fuse house #1, 32x96 | 1918 | 652-173 | | 5 d2 |

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| Manual Cnstr Div | Primer & Fuse house #2, 32x96 | 1918 | 652-174 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 10, 49x208 | 1918 | 652-179 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 11, H.E. 26x42 | 1918 | 652-180 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 12, 26x42 | 1918 | 652-31 | | 5 d2 |
| Manual Cnstr Div | Magazine, Type 1 & Type 2 | 1918 | SB 23 | X | 5 d2 |
| Manual Cnstr Div | Oil house, 20x30 | 1918 | 620-396 | | 6 a |
| Manual Cnstr Div | Boiler Houses | 1918 | 620-492 | | 6 a |
| Manual Cnstr Div | Transformer Sta. Type 1, 20x36 | 1918 | 652-81 | | 6 a |
| Manual Cnstr Div | Hose House (Type A & B) 6'x7' | 1918 | 620-445 & 446 | | 6 b |
| Manual Cnstr Div | Waste & Transfer Station, 20x130 | 1918 | 620-432 | | 6 c |
| Manual Cnstr Div | Standard Incinerator | 1918 | SB 8 | X | 6 c |
| Manual Cnstr Div | Lecture Hall, 51x77 | 1918 | 608-104 | | 7 a |
| Manual Cnstr Div | Auditorium, 200x300 | 1918 | SB 24 | X | 7 a |
| Manual Cnstr Div | Post Exchange, 32x91 | 1918 | 620-359 | | 7 f |
| Manual Cnstr Div | Theatre, Class a, 120x187 | 1918 | 608-24 | | 7 g |
| Manual Cnstr Div | Theatre, Liberty, Class D | 1918 | 608-31to34&106 | | 7 g |
| Manual Cnstr Div | Liberty Theatre, 60x120 | 1918 | 620-499 & 500 | | 7 g |
| Manual Cnstr Div | Barrack, 30'x60' | 1918 | 620-313 | | 9 a2 |
| Manual Cnstr Div | Barrack, 30'x50' | 1918 | 620-342 | | 9 a2 |
| Manual Cnstr Div | Dtchmnt Bar., w/out mess 20' x var. | 1918 | 620-353 | | 9 a2 |
| Manual Cnstr Div | Detach. Bar., w/mess 20' x var. | 1918 | 620-355 | | 9 a2 |
| Manual Cnstr Div | Barrack, 30'x40' | 1918 | 620-366 | | 9 a2 |
| Manual Cnstr Div | Prisoner's Barrack & Yard, 30'x9 | 1918 | 620-373 | | 9 a2 |
| Manual Cnstr Div | Guard Barrack, 30'x90' | 1918 | 620-373-A | | 9 a2 |
| Manual Cnstr Div | Barrack & lavatory, 43'x120' | 1918 | 620-457 & 458 | | 9 a2 |
| Manual Cnstr Div | Dormitory for men, 28x113 | 1918 | 6307-110 | | 9 a2 |
| Manual Cnstr Div | Dormitory & Dining Room, 29x136 | 1918 | 6339-111 | | 9 a2 |
| Manual Cnstr Div | Dormitories w/Mess | 1918 | SB 22 | X | 9 a2 |
| Manual Cnstr Div | Typical Barracks, 66 Men | 1918 | SB 4 | X | 9 a2 |
| Manual Cnstr Div | Lav. w/out shwrs: 17x14, 17x21, 17x | 1918 | 620-324 | | 9 b1 |
| Manual Cnstr Div | Bath House, 9'x8' to 9'x32' | 1918 | 620-336 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x49 | 1918 | 620-345 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x42 | 1918 | 620-346 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x35 | 1918 | 620-347 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x21, x28 | 1918 | 620-348 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 14x14, 14x20 | 1918 | 620-349 | | 9 b1 |
| Manual Cnstr Div | Shower shelter & wash house, 20x80 | 1918 | 620-451 | | 9 b1 |
| Manual Cnstr Div | Lavatory w/showers, 20x50 | 1918 | 620-523 | | 9 b1 |
| Manual Cnstr Div | Typical Lavatories | 1918 | SB 6 | X | 9 b1 |
| Manual Cnstr Div | Typical Lavatories Details | 1918 | SB 7 | X | 9 b1 |
| Manual Cnstr Div | Meat Inspection Platform, 10'x66' | 1918 | 620-429 | | 9 b2 |
| Manual Cnstr Div | Mess Building, 30x120, x132, x144 | 1918 | 620-442 | | 9 b2 |
| Manual Cnstr Div | Refrigeration Plant, 20x72 | 1918 | 620-471 & 472 | | 9 b2 |
| Manual Cnstr Div | Regrigeration Cooling Tower, | 1918 | 620-473 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 105x192 | 1918 | 6209-113 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 54x189 | 1918 | 6339-131 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 132x173 | 1918 | 6370-106 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 110x171 | 1918 | 6383-110 | | 9 b2 |
| Manual Cnstr Div | Cafeteria, 156x200 | 1918 | 6403-111 | | 9 b2 |
| Manual Cnstr Div | Typ Hospital Kitchen Layouts | 1918 | SB 13 | X | 9 b2 |
| Manual Cnstr Div | Typical Mess Buildings | 1918 | SB 15 | X | 9 b2 |
| Manual Cnstr Div | Det Hut & Kitchen, Det & Qrtn Camp | 1918 | SB 18 | X | 9 b2 |

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|------------------|------------------------------------|------|-----------------|-------|-------|
| Manual Cnstr Div | Housing, 4 families, 38x53 | 1918 | 6309-121 | | 9 c1 |
| Manual Cnstr Div | Housing, 1 family, 24x30 | 1918 | 6309-150 | | 9 c1 |
| Manual Cnstr Div | Housing, Boarding, 27x38 | 1918 | 6309-160 | | 9 c1 |
| Manual Cnstr Div | Housing, 1 family, 24x36 | 1918 | 6309-180 | | 9 c1 |
| Manual Cnstr Div | Housing, 1 family, 24x32 | 1918 | 6309-190 | | 9 c1 |
| Manual Cnstr Div | Housing, 2 family, 25x36 | 1918 | 6309-200 | | 9 c1 |
| Manual Cnstr Div | Officers Quarters, 20x49 | 1918 | 620-337 | | 9 c2 |
| Manual Cnstr Div | Officers Quarters, 30xvar. | 1918 | 620-343 | | 9 c2 |
| Manual Cnstr Div | Officers Quarters, 20x28 | 1918 | 620-344 | | 9 c2 |
| Manual Cnstr Div | Officers Quarters, 30xvar. | 1918 | 620-354 | | 9 c2 |
| Manual Cnstr Div | Officers Quarters, 20xvar. | 1918 | 620-363 | | 9 c2 |
| Manual Cnstr Div | Officers Quarters, 20xvar. | 1918 | 620-364 | | 9 c2 |
| Manual Cnstr Div | Officer's Qtrs, 20x21 types A,B,C | 1918 | 620-369 | | 9 c2 |
| Manual Cnstr Div | Typical 2 Story Officers Qtrs | 1918 | SB 5 | X | 9 c2 |
| Manual Cnstr Div | Garage, 50' x var. | 1918 | 620-301 | | 9 d1 |
| Manual Cnstr Div | Garage, 65' x 108' | 1918 | 620-322 & 323 | | 9 d1 |
| Manual Cnstr Div | Garage, 30' x var. | 1918 | 620-511 | | 9 d1 |
| Manual Cnstr Div | Garage, open, 50'xvar. | 1918 | 620-524 | | 9 d1 |
| Manual Cnstr Div | Garage, closed, 70'x180' | 1918 | 620-525 | | 9 d1 |
| Manual Cnstr Div | Garage, Mechanical Repair, 140x144 | 1918 | 6242-5 | | 9 d1 |
| Manual Cnstr Div | Garage, 61x164 | 1918 | 6311-105 | | 9 d1 |
| Manual Cnstr Div | Garage, Ordinance, 50xvar. | 1918 | 652-17 | | 9 d1 |
| | | | | | |
| Manual Cnstr Div | Standard Steel & Wood Hangars | 1919 | SB 9 | X | 10 a1 |
| | | | | | |
| F.E. Warren AFB | Hay Shed | 1926 | 102-F | | 10 b |
| | | | | | |
| Fort Riley, KS | Frame Quarters for NCO | 1928 | Geo. E. Pond | X | 9 c1 |
| Fort Riley, KS | 4 Family Apt. House, Company Ofcrs | 1928 | 625-803 | | 9 c2 |
| | | | | | |
| Chief of Air Cor | Air Corps Hangar | 1930 | 695-272 | X | 10 a1 |
| Fort Riley, KS | Typical Dry Cleaning Plant | 1930 | 633-165 | | 5 c2 |
| Fort McPherson | Clinic 28 beds, 34x130, 9x30 | 1930 | 6217-36 to 45 | | 5 d1 |
| Fort McPherson | Kitchen & Mess, 24x100, 31x33 | 1930 | 6217-47 to 57 | | 9 b2 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, brick | 1930 | 625-1444 | | 9 c1 |
| Fort Riley, KS | Double NCO Quarters 2 sty, brick | 1930 | 625-1530 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, w sty, brick | 1930 | 625-1543 | | 9 c1 |
| Fort Riley, KS | NCO Double Quarters | 1930 | 625-541 | X | 9 c1 |
| Fort Riley, KS | 4 Family Apt. House, Company Ofcrs | 1930 | 625-806 | X | 9 c2 |
| Fort Riley, KS | Four Family Apartment House | 1930 | 625-808 | X | 9 c2 |
| | | | | | |
| Chief of Air Cor | Air Corps Hangar, E Design | 1931 | 695-284 | X | 10 a1 |
| F.E. Warren AFB | Utility Office | 1931 | 59-U | | 6 b |
| F.E. Warren AFB | Detachment Barracks | 1931 | 621-850 & 851 | | 9 a2 |
| F.E. Warren AFB | Double NCO Quarters | 1931 | 8682-D | | 9 c1 |
| Fort D.A. Russel | Double NCO Quarters | 1931 | 625-1543 & 1544 | | 9 c1 |
| F.E. Warren AFB | Company Ofcr 4 Set Apt | 1931 | 129 | | 9 c2 |
| | | | | | |
| Fort Riley, KS | Q.M. Gas Station | 1932 | A-5-21 | X | 10 c1 |
| Fort Riley, KS | NCO Quarters - type c - brick | 1932 | 625-1556 | X | 9 c1 |
| F.E. Warren AFB | Company Officer's Quarters | 1932 | 625-1486 & 87 | | 9 c2 |
| Fort Riley, KS | Field Officers Quarters | 1932 | 625-1341 | X | 9 c2 |

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| Marshall Field, | Field Officers Quarters | 1932 | 625-1301 | X | 9 c2 |
| Marshall Field, | Company Officers Quarters | 1932 | 625-2491 | X | 9 c2 |
| | | | | | |
| Fort McPherson | Nurses Quarters, 13 nurses | 1933 | 707-102 to 107 | | 9 a1 |
| F.E. Warren AFB | Double NCO Quarters, type B | 1933 | 625-2510 & 2518 | | 9 c1 |
| F.E. Warren AFB | Double NCO Quarters, type A | 1933 | 625-2510 - 2511 | | 9 c1 |
| Fort D.A. Russel | Double NCO Quarters | 1933 | 625-2510 & 2511 | | 9 c1 |
| Marshall Field, | Field Officers Quarters | 1933 | 625-1340 | X | 9 c2 |
| | | | | | |
| Fort Lewis, WA | Magazine, Post Ordnance | 1934 | 19-2-70 | X | 5 d2 |
| | | | | | |
| Office of QMG | Typ L'scp Pl'tg: CO & Dbl CO Qtrs | 1935 | 630-100 | X | 11 a |
| Office of QMG | Typical Street Tree Planting | 1935 | 630-102 | X | 11 a |
| Office of QMG | Typ L'scp Pl'tg: Th'tre, Hosp, Chpl | 1935 | 630-103 | X | 11 a |
| Office of QMG | Typ. L'scp Pl'tg: HQ, Admin, BOQ | 1935 | 630-Illegible | X | 11 a |
| Fort Riley, KS | Double NCO Quarters, 2 sty, brick | 1935 | 625-3571 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, brick | 1935 | 625-3572 | X | 9 c1 |
| | | | | | |
| Fort Riley, KS | Post Office, Type PO-1 | 1937 | 700-298 | X | 1 d |
| Fort Riley, KS | Shop - Utilities | 1937 | 700-317 | X | 5 a |
| Fort Riley, KS | Revised Plan of Engineer Garage | 1937 | A-20-12 | X | 9 d1 |
| | | | | | |
| Fort Riley, KS | Stables | 1938 | 14-7-illegible | X | 10 b1 |
| Fort Riley, KS | Stables | 1938 | 14-9-illegible | X | 10 b1 |
| Fort Riley, KS | Stable | 1938 | A-14-4 | | 10 b1 |
| Fort Riley, KS | Academic Building | 1938 | 6139-310 | X | 3 a |
| Fort Riley, KS | Packing & Crating shop | 1938 | A-8-12 | X | 5 a |
| Fort Riley, KS | Incinerator | 1938 | A-13-1 | | 6 c |
| Fort Riley, KS | Barracks | 1938 | A-19-14 | | 9 a2 |
| Marshall Field, | Barracks | 1938 | 621-1072 | X | 9 a2 |
| Fort Riley, KS | Double NCO Quarters, 2 sty, stone | 1938 | 625-3570-3 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 story, stone | 1938 | 625-3571-3 | X | 9 c1 |
| Fort Riley, KS | Double NCO Quarters, 2 story stone | 1938 | 625-3572-3 | X | 9 c1 |
| Fort Riley, KS | Quarters, no designation | 1938 | A-4-9 | X | 9 c2 |
| | | | | | |
| Fort Riley, KS | Stable - School of Equitation | 1939 | A-14-12 | X | 10 b1 |
| Fort Riley, KS | Dispatcher's Office | 1939 | A-19-4 | | 10 c2 |
| Fort McPherson | Dental Clnc & Cont. Ward, 34x130 | 1939 | 6217-65, 74, 76 | | 4 a |
| F.E. Warren AFB | Incinerator - trash only | 1939 | 414-43-228 | | 6 c |
| F.E. Warren AFB | War Dept Theatre | 1939 | 608-360 to 366 | | 7 g |
| Fort D.A. Russel | War Dept Theater | 1939 | 608-360 - 366 | | 7 g |
| Fort McPherson | War Dept Theatre, 85x49 | 1939 | 6217-105 to 107 | | 7 g |
| F.E. Warren AFB | Med Dtchmnt Bar (and 6560-140--142) | 1939 | 621-1325--1346 | | 9 a2 |
| F.E. Warren AFB | Medical Detachment Bar | 1939 | 6560-140--142 | | 9 a2 |
| Fort D.A. Russel | Med. Detachment Barracks | 1939 | 6560-140 - 142 | | 9 a2 |
| Fort Riley, KS | Quarters, no designation | 1939 | A-2-3 | X | 9 c1 |
| Fort Riley, KS | Quarters, no designation | 1939 | A-4-7 | X | 9 c2 |
| | | | | | |
| Marshall Field | Operations Building | 1940 | 613-9365 | | 1 c |
| Marshall Field, | Operations Building | 1940 | 6139-366 | | 1 c |
| Fort Riley, KS | Infirmiry - Large | 1940 | 700-279 | | 4 a |
| Marshall Field, | Paint Oil & Dope House | 1940 | 702-118 | X | 5 d1 |

Sorted by: DATE

| INSTALLATION | BUILDING | DATE | STD_PLAN | DRWNG | TYPE |
|------------------|-------------------------------------|------|-----------------|-------|-------|
| Fort D.A. Russel | Gymnasium | 1940 | 6560-145 - 179 | | 7 b |
| Fort Riley, KS | NCO Garages | 1940 | A-20-7 | X | 9 d1 |
| | | | | | |
| Fort Riley, KS | Sewage Treat. Plnt, Cntrl Hse | 1942 | 408-204 | X | 6 b |
| Fort Riley, KS | Cold Storage Bldg | 1942 | 800-1226 | X | 5 d1 |
| | | | | | |
| | | | | | |
| Fort Riley, KS | Admin Bldg? No Title | N.D. | 6139-307 | X | 1 c |
| Fort Riley, KS | Administration Building | N.D. | Geo. E. Pond | | 1 c |
| Fort Riley, KS | Proposed Administration Building | N.D. | Geo. E. Pond | | 1 c |
| Fort Riley, KS | Airplane Hangar | N.D. | Butler Mfg Co | X | 10 a1 |
| Fort Riley, KS | Battery Stables | N.D. | E.B. Williston | X | 10 b1 |
| Fort Riley, KS | Cavalry Stables | N.D. | Geo. E. Pond | X | 10 b1 |
| Fort Riley, KS | Dispensary | N.D. | Geo. E. Pond | X | 4 a |
| Fort Riley, KS | Battery Workshops | N.D. | Geo. E. Pond | X | 5 a |
| Fort Riley, KS | Ordnance Store House | N.D. | Geo. E. Pond | X | 5 d2 |
| Fort Riley, KS | Post Exchange & Gymnasium | N.D. | Geo. E. Pond | X | 7 a |
| Fort Riley, KS | B.O.Q. | N.D. | 188 | X | 9 a1 |
| Fort Riley, KS | Quarters for Packers | N.D. | A-2-17 | X | 9 a2 |
| Fort Riley, KS | Cavalry Barracks | N.D. | Geo. E. Pond | X | 9 a2 |
| Fort Riley, KS | Outhouse for Cavalry Barracks | N.D. | Geo. E. Pond | X | 9 b1 |
| Fort Riley, KS | Non-Commissioned Officers Quarters | N.D. | Geo. E. Pond | X | 9 c1 |
| Fort Riley, KS | Quarters for Steam Heating Engineer | N.D. | Geo. E. Pond | X | 9 c1 |
| Fort D.A. Russel | Company Officrs Qtrs | N.D. | 625-1486 & 1487 | | 9 c2 |
| Fort Riley, KS | Proposed Field Officrs Quarters | N.D. | Geo. E. Pond | X | 9 c2 |
| Fort Riley, KS | Quarters for Commanding Officer | N.D. | Geo. E. Pond | X | 9 c2 |
| | | | | | |
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2) RESOURCES LOCATED AT THE NATIONAL ARCHIVES

Selected records are grouped in Record Groups at the National Archives and may contain valuable information about Quartermaster Corps standardized plans. A record group is the basic of archival control and consists of a body of organizationally related records designated by a number and the name of the government agency, bureau, or activity that created or received them. Researchers usually gain access to records after reviewing guides to records, by using indexes to subjects and agencies and, at the most direct level, finding aids and microfilmed publications.

For example, the Pacific Northwest Regional Office of the National Archives in Seattle, Washington published in 1994 a *Guide to Records in the National Archives—Pacific Northwest Region*. Under the heading for Record Group 18, *Records of the Army Air Forces*, researchers will find a brief administrative history of the Army Air Forces, a short description of the records (dates covered, number of cubic feet of records and major headings), a summary of any finding aids (these range from no finding aids, to a list of box contents and inventory reports written by National Archives staff) and a list of any related microfilm publications

Due to time and budget constraints, it was not possible to examine all record groups (RG) relating to Quartermaster Corps standardized plans. RG 77, *Records of the Office of the Chief of Engineers*, and RG 92, *Records of the Office of the Quartermaster General*, were the focus of research.

Researchers may find that the following record groups also contain useful information. A brief administrative history is provided with each record group. The text for the administrative histories was taken from *Guide to Records in the National Archives—Pacific Northwest Region Seattle, Washington*.¹

RG 18 Records of the Army Air Forces

The Army Air Forces (AAF) originated August 1, 1907, as the Aeronautical Division in the Office of the Chief Signal Officer. After various reorganizations and name changes, the Army Air Forces was established on March 9, 1942, under the Secretary of War and the War Department General Staff.

RG 165 Records of the War Department General and Special Staffs

A War Department General Staff was authorized by Congress on February 14, 1903, to include a Chief of Staff, a General Council, and three divisions, which, after frequent reorganizations, developed into the Personnel Division (G-1), the Military Intelligence Division (G-2), the Organization and Training Division (G-3), the Supply Division (G-4), and

¹ Susan Karren, Laura McCarthy and Nancy Malan, National Archives and Records Administration, Washington, DC, 1994

the War Plans Division (Operations Division after 1942). The General Staff was a separate and distinct staff organization with supervision over most military branches—both line and staff. Its duties were to prepare plans for national defense and mobilization of military forces in time of war, to investigate and report on questions affecting Army efficiency and preparedness, and to give professional aid to the Secretary of War, general officers, and other superior commanders.

Under provisions of the National Security Act of 1947, the War Department became the Department of the Army within the newly created National Military Establishment, which was renamed the Department of Defense in 1949.

RG 219 Records of the Office of Defense Transportation

The Office of Defense Transportation (ODT) was created within the Office for Emergency Management on December 18, 1941, to ensure that the United States domestic transportation facilities were used to win the war in the most efficient manner. The ODT was authorized to coordinate activities of Federal agencies and private groups in adjusting the transportation system to the needs of the war, to determine adequacies of facilities and act to provide additional transportation, to coordinate transportation to prevent congestion, and to determine storage and warehouse requirements. ...After the war, ODT's responsibilities steadily diminished until the agency was terminated on July 1, 1949.

RG 338 Records of the Records of U.S. Army Commands

The present system of U.S. Army commands, which are organized both functionally and geographically, emerged from a War Department reorganization of February 28, 1942. Regional holdings include records of Quartermaster and Ordnance Depots. Related records are to be found in RG 92.

U.S. War Department, *The Annual Report of the Secretary of War*, Washington, DC, Government Printing Office. Annual Reports by The Secretary of War are available from 1852 to 1912. *The Report of the Quartermaster General* is included within the Secretary's reports (these are also published separately as *The Annual Report of the Quartermaster General*). These reports include a vast amount of useful information including budgets, expenditure reports including costs, type and location of buildings; General Orders are included which relate to construction activities; authorization to establish, abandon or sell posts; Etc.

Record Group 77: Records of the Office of the Chief of Engineers – Completion Reports

Standardized plans from the third period of standardization can often be found in this file consisting of at least 116 boxes of files. These files are arranged by post and usually contain separate files on individual buildings. Within the files can be found the Quartermaster Corps procurement authority, project description, construction and financial data, standard plan number, name of building contractor(s) and supplier(s), costs and schedule. Photographs are

often included showing a completed building. Occasionally a blueprint or a photograph of a floor plan will also be included.

Record Group 92, Entry 215 – Consolidated Correspondence Files, 1794-1890. Arranged by subject.

Time and budget constraints did not permit an examination of this huge collection of records. The following description is quoted from Grashof, *A Study of United States Army Family Housing Standardized Plans, Volume 1*, 1986.

“Potentially one of the most valuable files, and definitely one of the most frustrating to work with. It is an extremely large file. Since it is arranged by subject, the subjects barracks, quarters, officers’ quarters, housing family housing, plans, design, architecture, anything that might yield information [about] standardized construction, were requested. The response was that the file was generally arranged according to people, places and posts, though there are a number of boxes labeled Maps and Drawings. Unfortunately, these were reviewed too early in the research so no standardized plans could be recognized. ...Also requested was information on the various Military Departments and Quartermaster Generals. Little of value was found relating to standardized construction under these subject heads. With a number of plans identified from the early period, the next search in this file should be of the specific posts. There are usually plans included in these files which may or may not duplicate those at the Cartographic and Architectural Branch, and also specifications. This search would prove quite valuable.”

Record Group 92, Entry 1058 – *Annual Reports of the Construction and Repair Division, 1903-1915*.

Mimeographed and typed reports that were published, or edited for publication, in the annual reports of the Quartermaster General and the Secretary of War.

Record Group 92 Entry 1061 – *List of Construction Contracts Made for Various Posts, 1885-1899*.

Often indicates the Quartermaster Generals Office plan number used for and gives the building types at various posts.

Record Group 94 – *Records of the Adjutant General’s Office, 1917- -----, Central Decimal File 620-625, 630*.

Documents dealing with various topics. Grashof, 1986 indicates that the :

“numbers 620-625, which covered barracks and quarters, officers quarters, etc. were requested. Only a portion of 620 was received, however, so there is much information still to be reviewed. Number 630- Post Buildings might also prove helpful. There does not

appear to be any organization, other than chronologically by date within the boxes of documents.”

A) CARTOGRAPHIC AND ARCHITECTURAL BRANCH
(Located at Archives II in College Park, MD)

| | |
|------------------|----------------------------------|
| Record Group 77 | Fortification File |
| Record Group 77 | Miscellaneous Fortification File |
| Record Group 92 | Post and Reservation File |
| Record Group 156 | Office of the Chief of Ordnance |
| Record Group 393 | Posts |

Over forty loose-leaf notebooks have been organized alphabetically by post name. Under each post is a listing of all drawings from that post within these files.

Record Group 77 Williams Number Map Collection

Maps showing a number of Army posts are included in this collection. Organized by state and by U.S. military stations, these original maps and blueprints offer a variety of information including proposed building construction, sewer and water lines, artillery range maps, mosaics of aerial photographs, topography,

Record Group 92 Blue Print File

Indexed by individual posts, the entries are arranged roughly by year. The drawings in this RG include topographic maps, post layouts including buildings and streets, floor plans for individual buildings and, in the typical case of Fort Sam Houston, Texas, there are even detail drawings of grease traps “to be used in connection with the proposed new sewer system.”

Record Group 77 – P.I. NM—19 (Entry 410: Index, and Entry 411: Plans) and
Record Group 92 – Post and Reservation File – Fort Anyplace

No specific post is represented in these files. The first, RG 77 – P.I. NM – 19 contains “all of the drawings for all types of post buildings from the second period of standardization.” (Grashof, 1986) The index includes written descriptions for each type. The second, RG 92 – Post and Reservation File – Fort Anyplace, includes blueprints of the drawings listed in NM—19.

B) STILL PHOTOS DIVISION

The following description of records in the Still Photos Division is copied from Grashof, 1986.

Record Group 77-A
and
Record Group 77-AA-

Prints and negatives from Washington Barracks (Ft. McNair) and Willet's Point (Ft. Totten). Some of the negatives are for prints in the 92-F series. Some photographs of quarters built from standard designs are included in this series.

Record Group 77-CA-

Completion photographs of housing from the second period of standardization. The photographs were taken at posts across the country, from Ft. Terry, New York to Ft. Stevens, Oregon. ...An occasional standard design from the first period of standardization was also illustrated.

Record Group 77-CC- Completion Photos of Military Housing Projects, 1927-1936.

There is no volume 1. An excellent source for third period designs. Volumes 2 and 3 have been taken apart and are now in two large archival boxes. Volume 4 is still bound and is sometimes difficult to find.

Record Group 77-SD- Military Installations of the Southern Department, 1920.

Photographs from posts in Texas, New Mexico and Arizona. Of little value except to show where already identified standardized plans were built.

Record Group 77-SFA-

Photographs of the posts around the San Francisco Harbor, especially Ft. Scott (the Presidio). Good photographs of housing built from standard plans of the second period of standardization.

Record Group 92-F Series-

US Military Posts of the late 19th Century. Excellent resource for early photographs of all building types. Arranged by post.

3) NATIONAL ARCHIVES, ALASKA REGION

Record Group 77 Records of the Office of the Chief of Engineers

The holdings of the National Archives, Alaska Region in Anchorage, Alaska, contain over 9,000 architectural and engineering drawings produced by the Alaskan offices of the US Army Corps of Engineers during World War II specifically for posts in Alaska. Since all World War II drawings prepared and archived in the Seattle District (which supervised construction by the Alaska office) were destroyed after the war, the Alaskan drawings constitute a unique record. They were not examined as part of this project as they were found too late in the project.

The drawings were often modified to adapt features of individual building types to Alaska's varied and extreme conditions: Arctic entries were added, roof trusses strengthened, additional insulation specified, Etc. Essentially a collection of construction drawings that provide detailed information about individual building types in Alaska, the collection includes both architectural elevations and floor plans. The drawings are indexed by post and the index appears to have been compiled from a database. No drawing numbers or sheet numbers identify each entry, and only the first one or two words of a drawing's title are included in the index. Roughly 95% of the entries present no problems as "Topography", "Plot Plan", "Elevation", "Motor Repair Shop" and "Warehouse" are helpful descriptions, but "Detector" or "Sleeve" is confusing.

4) ARCHIVES AND UNPUBLISHED MATERIAL

Building Location List, MSS, Directorate of Engineering and Housing, Ft. Monroe, Virginia, N.D.

Building Technology Incorporated, *Historic Properties Report: Fort Lewis Historic District and Vancouver Barracks Historic District*, MSS, Directorate of Environmental Quality, Ft. Lewis, Washington, 1986.

-----, *Historic Properties Report: Rock Island Arsenal, Rock Island, Illinois*, MSS, Army Materiel Command History Office, Rock Island Arsenal, Rock Island, Illinois, 1985.

-----, *Historic Properties Report: Watervliet Arsenal, Watervliet, New York*, MSS, Army Materiel Command History Office, Rock Island Arsenal, Rock Island, Illinois, 1985.

Clary, David A., *A Life Which is Gregarious in the Extreme: A History of Furniture in Barracks, Hospitals, and Guardhouses of the United States Army, 1880-1945*, MSS, Department of the Interior, National Park Service, Harpers Ferry Center, 1983.

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Cook, Jody, *Architectural and Historical Survey of Langley Air Force Base and Inventory of Historic Resources Langley Field, Virginia*, Draft MSS. National Park Service, Southeast Regional Office, Atlanta, Georgia, N.D.

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Fort Leavenworth Historic Building Inventory, MSS, Directorate of Engineering and Housing, Ft. Leavenworth, Kansas, 1983.

National Archives and Records Administration. Record Group 77. Historical Records of Buildings, 1905-1942. Records of the Office of the Chief of Engineers. Standard Plans of Army Post Buildings, 1891-1918; Fortifications File.

National Archives and Records Administration. Records of the Office of the Quartermaster General. Record Group 92. Blueprint File; Consolidated Correspondence File; Post Plans 1904-1905; Post and Reservation File.

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Simmons, R. Laurie, et al., *Cultural Resources Study: Fitzsimons Army Medical Center*, MSS, U.S. Army Corps of Engineers, Omaha District, 1991.

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