



The Archeology of an 1891 Officers' Quarters (25DW55-B-14) at Fort Robinson, Nebraska:

Report on the 2012 Excavation

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Prepared for the Nebraska Game and Parks Commission



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Introduction

As a result of a donation by a private citizen, the Nebraska Game and Parks Commission plans to reconstruct one of the Officers' Quarters or B-14, formerly located on the north side of the new parade ground at Fort Robinson State Park in northwestern Nebraska (Figure 1). The reconstructed quarters will be used as an interpretive center, group lodge, and meeting room. The original building (circa 1891) was a two-story frame structure with sandstone foundation.

Early in the planning stages it was agreed upon that archeological investigations would be required prior to reconstruction to provide necessary information regarding the footprint of the former building and possibly recover other structural evidence and building hardware needed for accurate reconstruction. A partial basement feature near the rear of the structure had been documented in building plans. It was believed investigation of this feature might yield a sample of artifactual material for an interpretive display.

To accomplish the above objectives, the Nebraska Game and Parks Commission contracted with the Nebraska State Historical Society (NSHS) to conduct the necessary archeological research prior to building reconstruction. In contrast to the reconstructed 1887 adobe enlisted men's barracks (Carlson 2001), documentation for the B-14 Officers' Quarters was fairly extensive. Numerous photographs and plan drawings were available from the copious Fort Robinson research files compiled by former curator Tom Buecker during his 26 year tenure. In addition, reconnaissance survey of the former building site revealed what appeared to be an exposed section of foundation wall near the southeast corner of the site.

NSHS archeologists headquartered at the Fort Robinson Museum, Amy Koch and Dr. Terry Steinacher were placed in charge of the field work and overall project investigations. The field crew consisted of fourteen individuals. NSHS staff members who participated in the excavation phase included : Amy Koch (Highway Archeology Program), and Terry Steinacher, Kelli Bacon, Patrick Haynes, and Holly Counts (State Historic Preservation Office). A group of enthusiastic and motivated volunteers assisted with the field work and included: Floyd and Marcia Counts, Karen Humphrey, John Murphy, Carla Plantikow, Rex, Connor, and Madeline Rodenbaugh, and Greg Veys.

Processing of the recovered artifactual and ecofactual materials was supervised by Trisha Nelson. Washing and cataloguing artifacts was carried out by Jennifer Hildebrand and Nick Fogerty. Analyses of recovered artifact classes were completed by Steinacher and Koch. Courtney Ziska prepared final versions of profile and plan view drawings from the field. Photographs of the excavation were contributed by Holly Counts and Rex Rodenbaugh. Students, Bailey Saults, Meggan Federle, and Kaleb White from the Sioux County High School photography class took photos of the artifacts for the report. Cover design was contributed by John Murphy, Connor Rodenbaugh, and Philip Parker from the Sioux County High School graphic design class. Koch and Steinacher were in charge of final report preparation.

Fort Robinson State Park Superintendent, Mike Morava and his staff were very accommodating, providing housing and lunches for the participants and final backfilling. Thanks to Jerry Taylor, NSHS maintenance technician, for his assistance and for putting up with the various movements of people and equipment during this project.



Figure 1. Map of Fort Robinson vicinity.

Background

Environmental Setting and Climate

Fort Robinson State Park is located in west-central Dawes County and northeastern Sioux County near the northwestern corner of Nebraska, the Great Plains physiographic province (Fenneman 1931). This portion of northwestern Nebraska, north of the Niobrara River and south of the Pierre Hills and gumbo plains, is known as the Pine Ridge region (Weaver 1965:155). It extends in an arc from Wyoming through northwestern Nebraska and into South Dakota. The Pine Ridge consists of rough, steep terrain dissected by deep drainageways, ranging from two to more than five miles in width and from 500 to 1,000 feet in height from base to crest, which forms the breaks between the Niobrara River drainage to the south and the White River drainage to the north (Ragon et al. 1977). The White River flows in a northeasterly direction through Dawes County. It is joined from the northwest by Soldier Creek. Soils in the project vicinity are of the Tripp-Haverson-Glenberg association (silty and sandy soils on bottom lands and stream terraces) and Busher-Tassel-Vetal association (sandy soils on uplands and foot slopes) moving away from the White River (Ragon et al. 1977).

Climate is characterized as semiarid with a low relative humidity compared to the eastern portion of the state. There is characteristically a wide temperature variation, abundant sunshine, and considerable wind movement. The average annual precipitation in Dawes County is 18.1 inches and in Sioux County is 16.94 inches. Most of the precipitation occurs between April 1 and September 30 with the greatest monthly amount occurring in June. Prevailing winds are from the northwest in winter and from the southwest in summer (Ragon et al. 1977; Rockie et al. 1922).

Flora and Fauna

The dominant tree species in the Pine Ridge is the western yellow or ponderosa pine, which occurs as scattered to dense timber. Species of deciduous trees, such as green ash, boxelder, and hackberry, are common in draws and canyons. Mountain birch, peach-leaved willow, and cottonwood are found along streams, and quaking aspen are sometimes present in the deeper canyons. Some of the most commonly occurring native grasses and sedges are: buffalo, blue grama, thread-leaf sedge, sun sedge, needle-and-thread, little bluestem and western wheatgrass. Shrubs present include wolfberry, squawbrush, wild rose, poison ivy, and numerous others (Weaver 1965:155-161).

This portion of the state is included in the Pine Ridge-Badlands district of the Panhandle mammalian distributional area. The dominant large game animals present during the early historic period and just prior to it were: bison, pronghorn, mule deer, whitetail deer, and elk or wapiti. Less common large species found over part of the area included the mountain lion and mountain sheep. Smaller species also present were the gray wolf, coyote, wolverine, badger, lynx, bobcat, porcupine, swift fox, raccoon, beaver, muskrat, mink, otter, black-tailed prairie dog, fox squirrel, black-tailed jack rabbit, eastern cottontail, desert cottontail, spotted skunk, striped skunk, long-tailed weasel, black-footed ferret, plains pocket gopher, and many others (Jones 1964). Some of the more common reptiles and amphibians inhabiting this part of the state are the following: prairie rattlesnake, bullsnake, western hog-nosed snake, plains garter snake, blue racer, common snapping turtle, western painted turtle, mountain short-horned lizard, bullfrog, northern leopard frog, Great Plains toad, and barred tiger salamander (Fogell 2010; Hudson 1985; Lynch 1985). Larger bird species found in the area included the sharp-tailed grouse, prairie chicken, golden eagle, and various hawks. A host of smaller species were also present (Jennings et al. 2005; Johnsgard 1979).

Cultural Setting

The Pine Ridge vicinity and surrounding areas have been utilized intermittently for the past 10,000 years by an assortment of Native American populations and more recently by Euroamerican traders, military personnel, settlers and farmers/ranchers. The project area is bordered by the Northwestern Plains and the Central Plains archeological subareas (Caldwell 1968; Frison 1991; Wedel 1961, 1978).

Native American Complexes

The earliest inhabitants of northwestern Nebraska were groups of Paleoindian elephant and bison hunters during the period (ca. 10,000 to 6,000 B.C.). Surface finds suggest suggest a lengthy Paleoindian use of the area. A large collection owned by the late Bill Hudson of Crawford includes representative examples of the following: Clovis, Folsom, Midland, Agate Basin, Hell Gap, Alberta, Cody, Frederick, and Lusk (Meston 1976:14). To date, the only systematically investigated local Paleoindian site is Hudson Meng (25SX115), located approximately 12 miles northwest of the project area. Investigations at the bison bone bed began in the 1970s (Agenbroad 1978a, 1978b). In excess of 300 animals were represented. A number of Alberta spear points and associated cultural materials were recovered and a date of 9,820 B.C. was obtained. The site was reexamined during the 1990s with a differing interpretation of the evidence that suggests a natural catastrophic event to explain the death of the bison (Rapson and Todd 1992, 1995). Investigations have resumed in 2006 by Mark Muniz of St. Cloud University utilizing geoarcheological techniques with more recent interpretations nearer to the original cultural explanation first posed by Agenbroad.

The Plains Archaic period (6,000 B.C. to A.D. 1) is also manifested in the area. The Archaic period is generally divided into three subunits (Early, Middle, and Late). The Hawken site of northwestern Wyoming provides information on one type of site from the Early Archaic (Frison et al. 1976:28-57). This site contained a small group of now extinct variant of bison that was driven into a steep-sided arroyo and killed. Medium-size elongate side-notched spear points were recovered that resemble those recovered from Early Archaic sites in eastern and southwestern Nebraska (Carlson 1998:469; Grange 1980:12-47; Kivett 1961). Reported dates from Hawkin include 6,470 and 6,720 B.P.

The Middle Archaic is somewhat better represented in western Nebraska. Signal Butte, a stratified, butte-top site in Scottsbluff County produced evidence of a McKean complex occupation, including hearths, storage or roasting pits, and a large artifact sample (Strong 1935:224-239). Diagnostic artifacts include McKean lanceolate, Duncan and Hanna stemmed, and side-notched Mallory types. Dates obtained range from 4,170 to 4,550 B.P. (Forbis 1985:21-29). A burial site in Cheyenne County of Oxbow cultural affiliation was excavated by the Nebraska State Historical Society. It contained the partial remains of a young adult male and an infant and associated cultural material, including a large side-notched biface, several amazonite pendants, perforated turtle carapace fragments, and raven wing bones. The calibrated date for the site indicates that the burial took place sometime between 2,288 and 2,466 B.C. (Carlson et al. 1999). Another Middle Archaic occupation site was uncovered during survey in response to proposed recreation road improvements in Sheridan County near the shores of Walgren Lake. Subsequent testing at the site recovered a substantial collection of chipped stone debris and tools and bison bone (Koch and Bozell 1998). An AMS date of 4050 +/-60 B.P. was obtained from bison bone collagen. Late Archaic sites are quite numerous in western Nebraska based upon evidence from private and professional collections. Remains from this period have been recovered from levels on Signal Butte (Strong 1935:224-239). A number of deeply buried hearths dating to this period have been investigated in Cedar Canyon, in northeastern Sioux County by the University of Nebraska (Schultz and Smith 1965:61-63; Meston 1976:21-23).

The few well-documented Woodland sites in western Nebraska have been assigned to the South Platte phase of that manifestation (Bozell and Winfrey 1994) and are believed more closely related to sites in northeastern Colorado and eastern Wyoming than to those farther east in Nebraska. Two sites in

northwestern Nebraska included in this category are: 25SX405, the burial of an adult male accompanied by a large Woodland pot, excavated by Chadron State College (Gill and Lewis 1977); and the Chadron State Park site (25DW1), an occupational site excavated by the Nebraska State Historical Society and subject of recent analysis by Steinacher (n.d.).

Evidence for "Plains Village" groups in western Nebraska is present but less abundant and of a somewhat different character than found in the eastern portion of the state. Because of the more arid climate and less favorable conditions for horticultural pursuits, sites in the western part of the state appear to represent the remains of campsites or related features resulting from small groups utilizing the area for hunting, lithic acquisition, trading ventures, and the like. Evidence for the earliest of these groups, one or more of the Central Plains tradition (A.D. 1000-1400) cultural units is found in various settings, including stream terrace camps, butte top camps, and rock shelters throughout the central and southern panhandle (Bell and Cape 1936; Jensen 1973:165-169; Strong 1935:224-239). In northwestern Nebraska, limited evidence of this type has also been documented (Meston 1976:22-23). Similar types also extend westward into portions of Wyoming and Colorado (Reher 1971; Wood 1971). Evidence for a slightly later movement of what appears to have been Extended Coalescent people into northwestern Nebraska has been found at site 25DW17 in Dawes County (Bozell and Ludwickson 1988). The site is believed to represent a campsite occupation dating to A.D. 1550-1700. Dismal River archeological remains may be attributable to an Apachean group occupying portions of central and western Nebraska between A.D. 1675 and 1725 (Champe 1949; Gunnerson 1959; Hill and Metcalf 1942). Limited amounts of trade goods have been found at some sites. Campsites of this type have been investigated in the central and southern portions of the panhandle at Signal Butte (Strong 1935:224-239) and a site in Cheyenne County (Jensen 1973:171-176).

By the 1770s, the Teton Sioux or Dakota had reached the Black Hills in their steady westerly migration, occupying northwestern Nebraska in the process. According to tribal traditions, the Oglala band was the first to arrive, later joined by the Brule Sioux, who reached the headwaters of the White River by 1810. Resident tribes of various parts of the area, such as the Cheyenne, Arapaho, and Crow, were for the most part, displaced by these movements of the Siouan groups into this new territory (Hanson 1983:5; Hanson and Walters 1976:293). Their fairly brief free-ranging occupation of the area has been well documented historically (Hassrick 1964; Hyde 1937, 1960; Wilson 1941), but, because of their highly nomadic lifestyle, only very ephemeral archeological remains are present and consequently have received little attention by archeologists.

Euroamerican Exploration and Settlement

By 1800 Native Americans of western Nebraska were already receiving various types of Euroamerican trade goods as a result of intertribal trading with Spanish settlements in the Southwest (Hanson and Walters 1976:293). The presence of European traders in the region began after 1830 with the upper White River fur trade flourishing during the period 1841-1872. Two major trading posts were operated in the Chadron area by James Bordeaux (1841-1876) and Louis Chartran (1841-1845).

Military involvement in the area began with the Harney expedition in 1855 which consisted of a march from Ft. Pierre to Ft. Kearney west up the Platte to Ft. Laramie and then back to Ft. Pierre. The final leg of the journey included movement through the White River area. Lieutenant Gouverneur K. Warren was the topographical engineer on the expedition and was responsible for naming Soldier Creek (Hanson 1987:7-9).

The Treaty of 1868, negotiated at Ft. Laramie, guaranteed that the Sioux and other tribes would receive food and other goods in exchange for land ceded to the government. This paved the way for the agency system (Grange 1958:192; Wilson 1941:17-19). The first agency for the Oglala Sioux, named for their chief, Red Cloud, was established in 1871 on the Platte River in eastern Wyoming. It was moved to the White River in northwestern Nebraska two years later (Grange 1958:192-196). Following a request

for military protection early in 1874, nearly 1,000 Infantry and Cavalry troops were sent from Fort Laramie in that year to the Red Cloud Agency and the Brule Spotted Tail Agency located about 40 miles to the northeast (Buecker 1999:9-17; Grange 1958:196-199; Shubert 1995:5-6).

The soldiers stationed at Red Cloud Agency initially camped nearby but soon decided to move across the river and about a mile west, where they established Camp Robinson. Quarters for four companies of infantry and one troop of cavalry were built of logs on three sides of a parade ground, with a row of adobe officers' quarters occupying the fourth side. Additional buildings such as an adjutant's office, guard house, and various other support structures completed the camp. The name was changed to Fort Robinson when it was determined that it would be something more than a temporary occupation. Within three years, Red Cloud Agency was moved to the Missouri River but Fort Robinson continued to play an important role during the Indian Wars period of the 1870s. Two major events, the death of Crazy Horse in 1877 and the Cheyenne Outbreak in 1879, took place at the fort during that decade. By the late 1870s cattle ranchers were beginning to move into the area, and with the completion of the railroad to northwestern Nebraska in 1886 large numbers of homesteaders also began to arrive (Buecker 1999; Grange 1958; Schubert 1995).

By 1887 the government had begun to close many of the smaller western forts with the intention of retaining and enlarging those in locations near the recently established Indian Reservations. Because of its location near the Pine Ridge (Oglala Sioux) Reservation in present day South Dakota, and on the new rail line, Fort Robinson was one of those chosen for expansion. This also caused a change in the fort's function, making it a regimental cavalry headquarters. Since the existing log barracks were in poor condition, it was decided that a new, larger parade ground would be built directly northwest of the old site. Beginning in June of 1887, six L-shaped, one story adobe barracks planned for the south side of the parade ground and an equal number of adobe duplex officers' quarters on the north side. Three frame cavalry stables were also constructed south of the new barracks, as well as two frame non-commissioned officers' quarters and an adobe bakery in the old portion of the post during that same year (Buecker 1987, 1999; Grange 1958). It was also during this period that the black cavalry regiments or "buffalo soldiers" were first garrisoned at Fort Robinson (Buecker 1999:169-195).

Between 1889 and 1892, two more barracks, of frame construction, were added to the row south of the new parade ground. By 1889, other construction around the parade ground included additional officers' quarters, cavalry stables, and a guard house. In the early 1900s another wave of construction around the new parade ground, included a post headquarters, two large enlisted men's barracks, a bachelor officers' quarters, various married officers' quarters, a post hospital, and a veterinary hospital (Buecker 1987, 1999; Grange 1958).

In 1919 Fort Robinson became a quartermaster remount depot, its primary function being to condition and process horses for the mounted services. Other highlights during the fort's long history include a battalion of field artillery between 1928 and 1931, the presence of a War Dog Reception and Training Center, and a Prisoner of War Camp during a portion of World War II (Buecker 1987; Grange 1958). Fort Robinson was deactivated as a military post in 1948 and the facility transferred to the United States Department of Agriculture to be used as a beef station. The property was turned over to the State of Nebraska in 1956 and has since operated under a cooperative agreement between state agencies including the Nebraska State Historical Society, Nebraska Game and Parks Commission, University of Nebraska Lincoln Department of Geology and State Museum, and Chadron State College (Buecker 1987; Grange 1958).

Previous Archeological Research

The Nebraska State Historical Society opened its branch museum at Fort Robinson in June of 1956. Some minor testing at the Red Cloud Agency occurred during the 1950s (Grange 1964, 1978). During the 1960s, two major excavation projects took place, both for reconstruction purposes. The remains of the

1874 Guardhouse where Crazy Horse received his fatal wound and nearby Adjutant's Office were excavated in 1966 (Frantz 1967) and in 1967 (Gant 1967). During these excavations, the remains of the 1884 Guardhouse and a portion of the 1874 Cavalry Barracks were also uncovered.

A fair amount of archeological activity took place on the park property during the 1980s. In 1982, the Society conducted a reconnaissance survey of a portion of park land, primarily in near the White River and Soldier Creek, which resulted in 21 newly recorded sites (Carlson 1982). Also during the 1980s, Highway Archeologists surveyed and tested an Extended Coalescent bison hunting camp (Slaughterhouse Creek site) in response to federal aid reconstruction of Highway 20 between Crawford and the fort. Another highway related survey occurred on Route 7 or the Nebraska Forest Highway (Bozell 1984). During the period 1987-1989, excavations of the 1874 log cavalry barracks was undertaken by numerous volunteers and Society staff. The barracks building was the scene of the famous and tragic Cheyenne Outbreak in January 1879 (Carlson 1987, 1988, 1989, 1995; Carlson and Steinacher 1989; Grier 1989; Steinacher 1995; Steinacher and Carlson 1999). Another project associated with the barracks was a survey conducted by the University of South Dakota Archeology Laboratory, under contract with Dull Knife Memorial College to learn more about the route followed by the Cheyenne in their escape attempt (McDonald 1987).

Fort related cultural resource investigations continued into the 1990s assisted by a number of non-intrusive remote sensing surveys, primarily using ground penetrating radar (Doolittle 1992; Steinacher 1992, 1994, 1995, 1996). In addition there were two electrical resistivity surveys undertaken by Steinacher at the south half of the 1874 Cavalry Barracks and another east of the Infantry Barracks on the old parade ground.

A significant, albeit non-archeological discovery is an important cache of early fort artifacts discovered in 1991. During a renovation project on an old quartermaster warehouse later converted to the Post Playhouse, a portion of the flooring in the east-west wing was removed. It was discovered that a large number of early military articles had been deposited in a 10 square foot area. Much of the materials dated to the earliest period of fort occupation and probably represented obsolete items discarded by quartermaster personnel through a trapdoor that was later covered by flooring (Buecker 1992).

Another important archeological investigation and excavation occurred during the late 1990s and during the summer of 2000. Appropriations by the Nebraska State Legislature in 1999 were to be used to reconstruct the 1887 adobe enlisted men's barracks located on the south side of the new parade ground. The project was under the overall direction of Gayle Carlson with the help of Society staff and University of Nebraska-Lincoln Anthropological Field School students. Phase one of the investigations consisted of electrical resistivity survey in order to better define and delineate the building remains in order to complete an excavation plan. An archeological testing program was implemented the following year (Carlson 2001).

More recently a comprehensive cultural resources survey of the entire Fort Robinson property was undertaken by the State Historic Preservation Office. Terry Steinacher, Historic Preservation archeologist and Amy Koch from the NSHS Highway Archeology Program participated in these efforts in 2010. Over 260 sites and objects were documented and digitally mapped within Fort Robinson's National Register boundaries.

Archival Research

Archival evidence related to the B-14 (1891) Officers' Quarters at Fort Robinson is fairly sparse. Much of the known existing evidence was researched and compiled by Thomas R. Buecker, curator of the Fort Robinson Museum from 1985 to 2011. Included are copies of official military papers obtained from the National Archives in Washington D.C.; photographs from various sources; and materials from other published and unpublished sources.

From about the 1860s onward, the U. S. Army developed and issued standardized plans for construction of buildings and other structures on their various forts and posts. This was part of an effort to improve the living conditions of its members. By the end of the 1880s, the Army would begin the consolidation and standardized construction that characterized the next era of War Department construction (Cannen et al. 1995). Officers' Quarters B-14 was built during the ensuing "Progressive Era" (1890-1918). It was during this time that the War Department adopted a policy of constructing permanent quarters with adequate water and utilities.

In 1891, the U. S. Army began construction of five duplex officer quarters at Fort Robinson. Three of these quarters (including B-14) were located at the west end and on the north side of the main parade ground. Two additional quarters were located near the east end, directly north of the Headquarters Building (now the Nebraska State Historical Society Museum) (Figure 2).

In 1989, Ephriam Dickson (intern at the Museum) compiled from existing records a list and map of all buildings, structures, and objects that currently exist or did exist in the past within the main complex at the Fort. This work ultimately identified over 470 buildings, structures, and objects. The compilation does not contain all those on the Fort Reservation property outside the main building complex. During this research, Dickson found there have been several numbering schemes used by the Army, United States Department of Agriculture (USDA), Nebraska Game and Parks Commission (NGPC), and the Nebraska State Historical Society (NSHS) over the 130+ years the Fort has been in existence. Rather than try to utilize one of the older systems, the structures were given new sequential numbers. Buildings were referenced with a "B", structures with an "S", and objects with a "J". Thus, when referring to previous numbering schemes, the older numbers, referenced in the record, will be given in parenthesis next to the current B-14 designation for the building being described.

All five duplex quarters were built on the same general pattern. Archival photos provide evidence that modifications were made to some structures, but not all. Although, evidence is scarce, interior changes probably followed a similar pattern.

A copy of a set of plans identified with Fort Robinson is featured in Grashof (1986). The plans are identified as "Plan No: OQ-36, Officers' Quarters, double set, 2 stories + attic, Date 1886, Basic Unit D." The plans were issued by the Department of the Platte. However, a note on the drawing states "not built, other plans proposed Apl 87." These plans (Figures 3, 4 and 5) closely resemble the 1891 construction. The main modification appears to be the change in location of fireplaces and chimneys. These were moved to corner locations and the chimneys realigned to match.

In the building file for B-14(OQ 4 & 5) are two undated photos. One can be identified by floral evidence as older than the second. The older photo (Plate 1) lacks the mature trees shown in the second photo and shows a floor plan similar to the Grashof (1986, OQ-36, 3 pages) information. B-14 was a two story building, with attic, and a basic T-wing layout. The building contains a nearly full front porch, shorter side porches, and an apparent back porch. The second photo (Plate 2) indicates some modification of the building took place. Archival evidence from 1942 indicates modifications were made to some or all of the frame duplex officer quarters to increase capacity by adding two additional apartments to the buildings (letter request from 1st Lt., C. E. Post Engineer to Commanding General,

Seventh Service Command, Omaha, Nebraska). This modification seems to be supported by the second photo which shows that the side porches were enclosed and a second floor added above them.

Additional information on B-14(OQ4 & 5) comes from records kept by the Post Engineer's Office over the years. The building was designated a Double Officers' Quarters for two Captains. It was constructed in 1891 and cost \$7,000.00 dollars. The material was wood frame with a stone foundation. Again, the building had two floors, an attic, and a basement. The roof was shingle with pine wood floors. It was steam heated and originally oil lighted which was later converted to electric lights. It had water and sewer hookup with four water closets, two wash basins, two laundry tubs and two tubs. Windows had screens with storm sashes and storm doors. One wall locker was present.

The total floor area above the basement was listed as 4,604 sq. ft. The main building was 34'8" x 46' with the wings listed as (1) 31' x 37', (1) 7' x 17'. A rough floor plan is presented in the file (Figure 6). The room dimensions in the file are listed as: basement: 2R, 13' x 16'; 1st floor: 4R, 14' x 16'; 2R, 14' x 15'; 2R, 13'6" x 14'; 2 halls 6' x 33'; 4 halls 3' x 7'; 2 cl. 3' x 7'; 2 cl. 6' x 8'; 2nd floor: 4R, 14' x 14'; 2R, 12' x 14'; 2R, 7' x 10'; 2R, 13' x 14'; 2R, 7' x 14'; 2 halls, 7' x 22'; 2 halls, 4' x 8'.

Additional information indicates that the basement had a 420 sq. ft. area with a ceiling height of 7'6". The first floor had a 3,620 sq. ft. area with a ceiling height of 10' and the second floor a 3,240 sq. ft. area with a ceiling height of 10'.

The first modification on the building appears to have been in 1905 when it is listed that 2 halls, 3' x 8'; 4 cl. 3' x 6'; and 2 cl. 2' x 6' were either added or modified. At that time the attic is listed as unfinished.

Some additional, although circumstantial, information can be gleaned from the files on the remaining similar buildings. In the file from B-13(OQ 6 & 7) the quarters adjacent and east of B-14 are several photos. One shows B-13 with B-14 in the background (Plate 3). Also there are also four interior photos of the building showing detailing and fireplaces (Plates 4, 5, 6, and 7). Further exterior photos and interior snapshots are from B-11(OQ 8 & 9) (Plates 8 and 9), B-3(OQ 22 & 23)(Plate 10), and B-2(OQ 24 & 25) (Plates 11, 12, and 13). Also contained in the B-2(OQ 24 & 25) file is a set of more detailed undated plans for that building (Figures 7, 8, and 9). These probably would have corresponded closely to the B-14 building.

In the mid-1950s the USDA hired a contractor from Oklahoma (Brian Perkins, personnel communication) to dismantle the building for salvage. No other building or structure was subsequently constructed at the location.

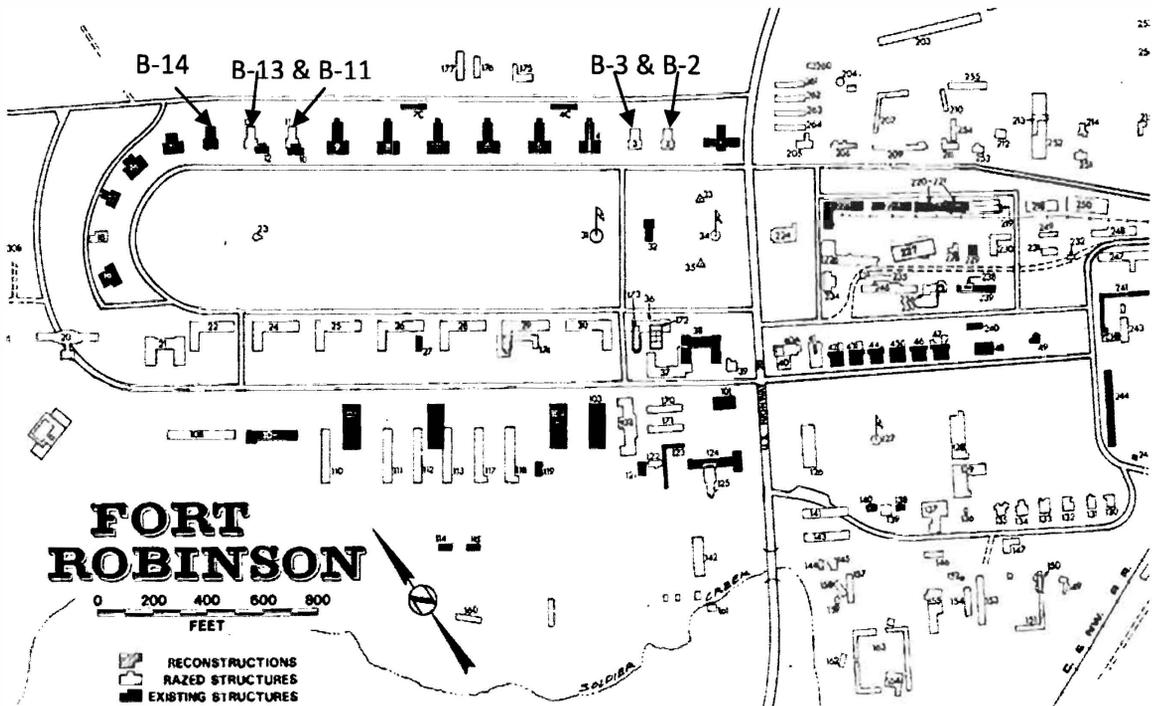


Figure 2. Location of B-14, B-13, B-11, B-3, and B-2 Officers' Quarters along north side of new parade ground. Map derived from Dickson's 1989 Fort Robinson buildings survey.

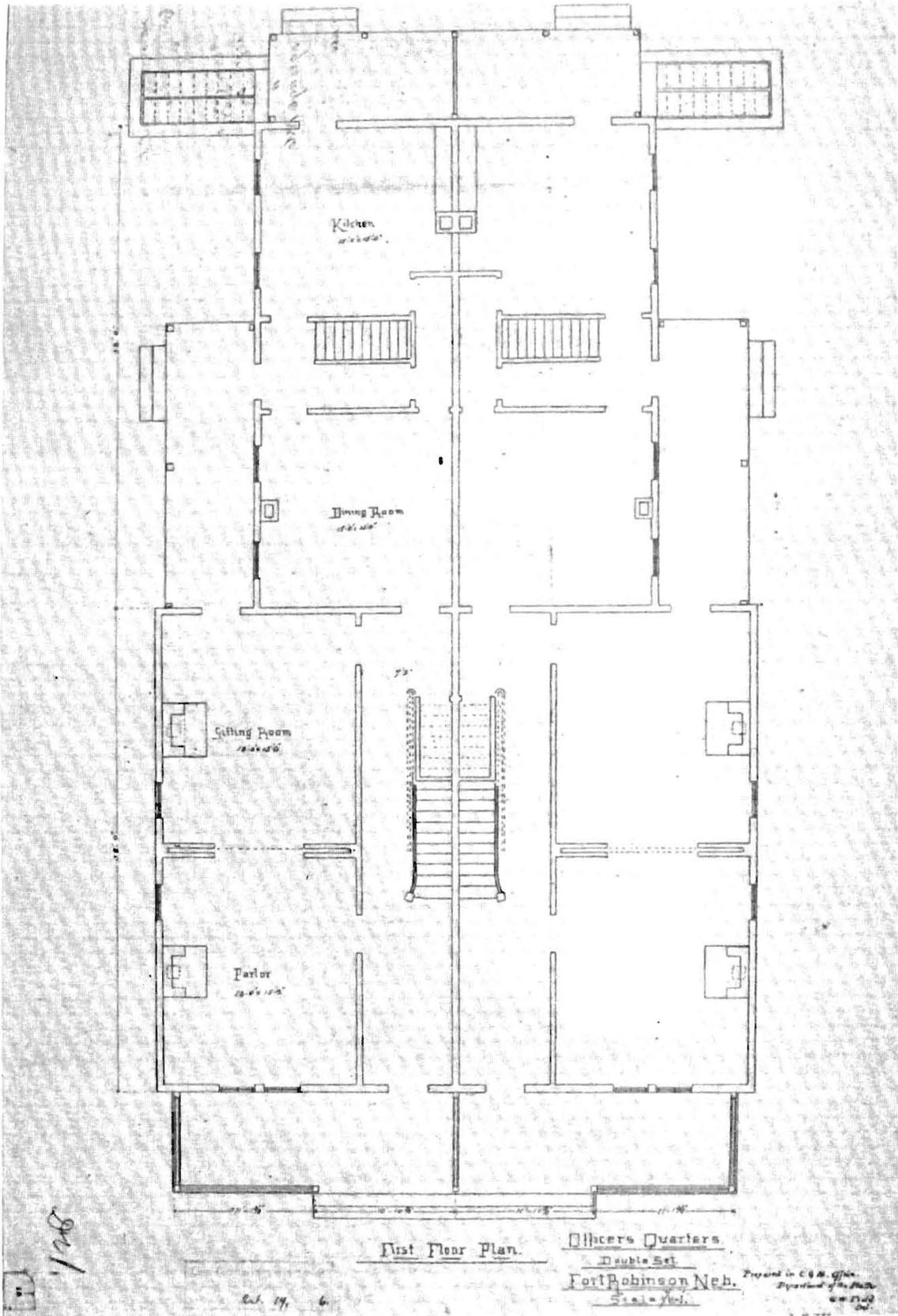


Figure 3. Plan No. OQ-36, Officers' Quarters, double set, 2 stories+attic, Date 1886, Basic Unit D from Grashof (1986).

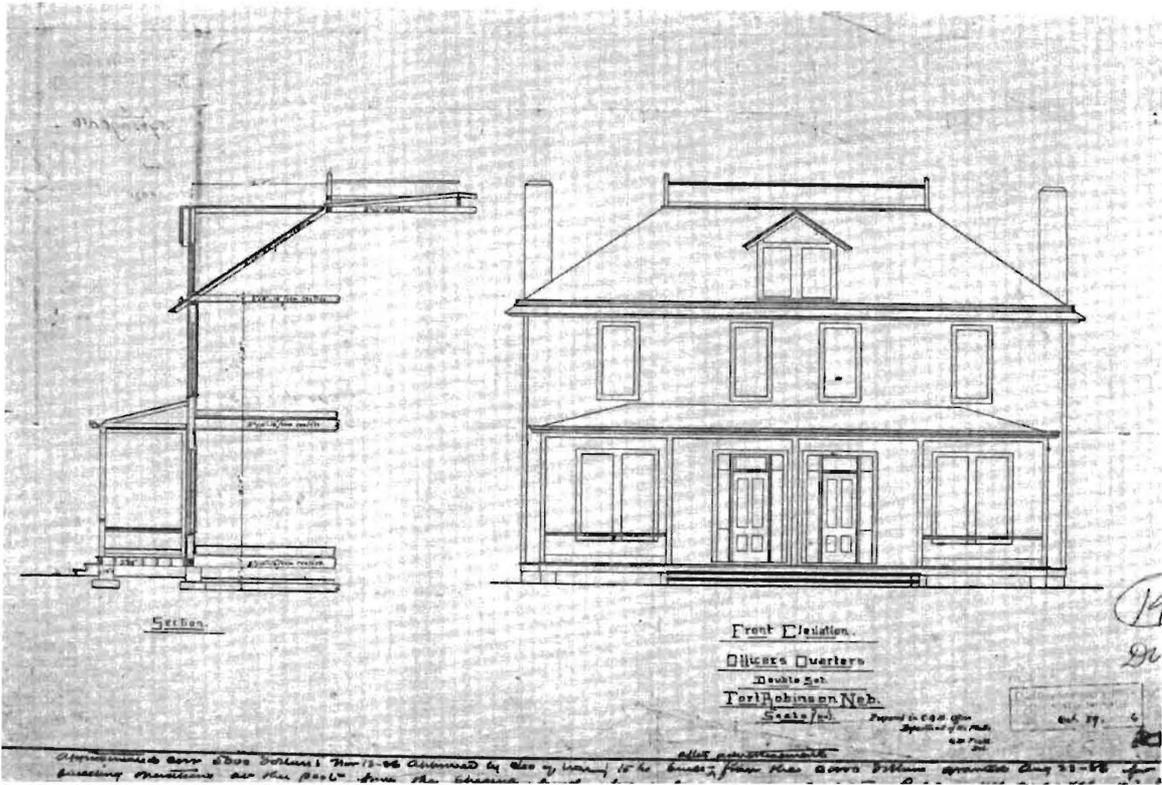


Figure 5. Plan No. OQ-36, Officers' Quarters, double set, 2 stories+attic, Date 1886, Basic Unit D from Grashof (1986).

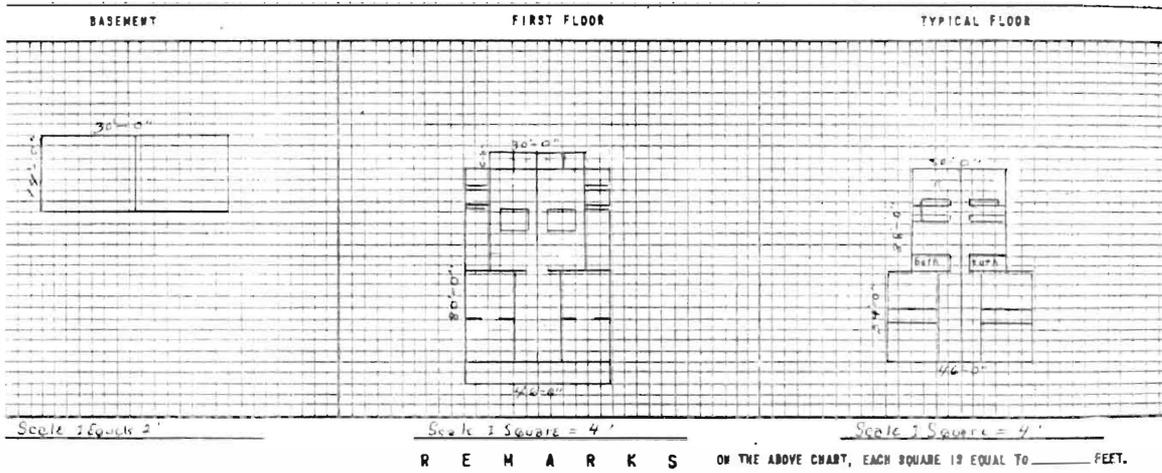
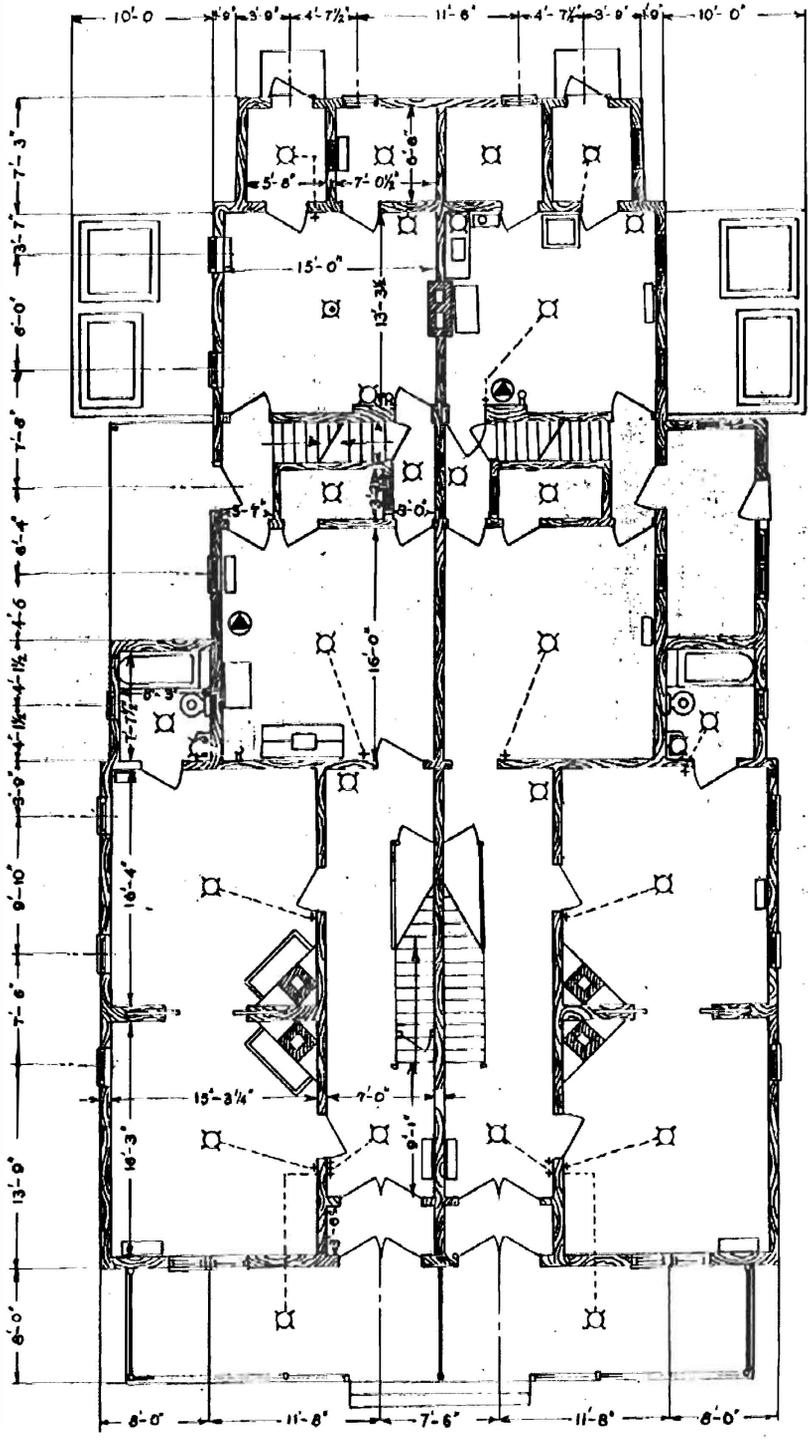


Figure 6. B-14 floor plan with room dimensions.



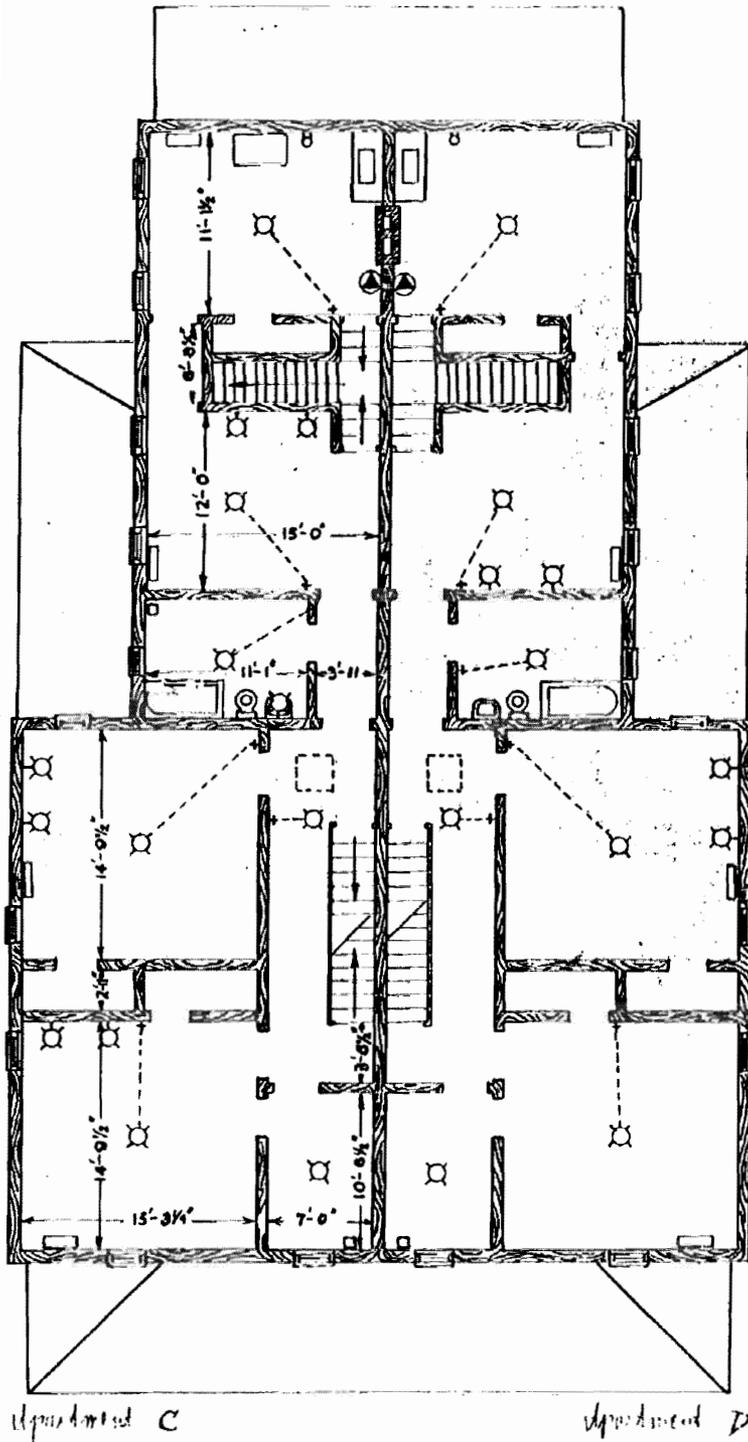
Apartment A

Apartment B

Building No. 88.

1st Floor

Figure 7. Undated plans for B-2 (OQ 24 & 25).



Building No. 88.

2ND FLOOR

Figure 8. Undated plans for B-2 (OQ 24 & 25).



Plate 1. B-14 Officers' Quarters (1890s).



Plate 2. B-14 Officers' Quarters with enclosed side porches (1940s).



Plate 3. B-13 Officers' Quarters showing B-14 to the west (left).



Plate 4. B-13 Officers' Quarters interior second floor.



Plate 5. B-13 Officers' Quarters interior first floor.

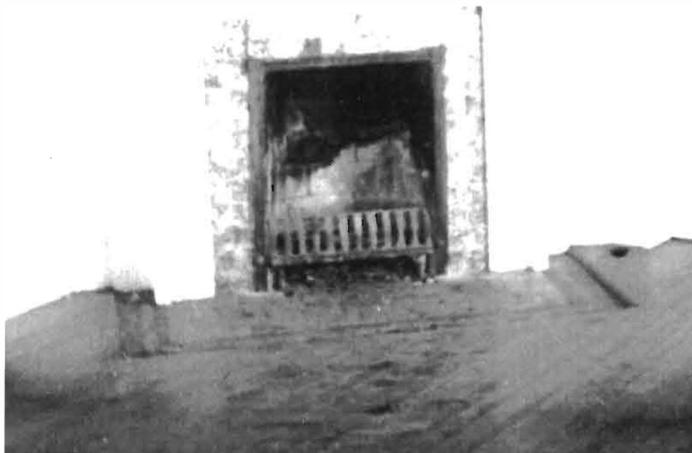
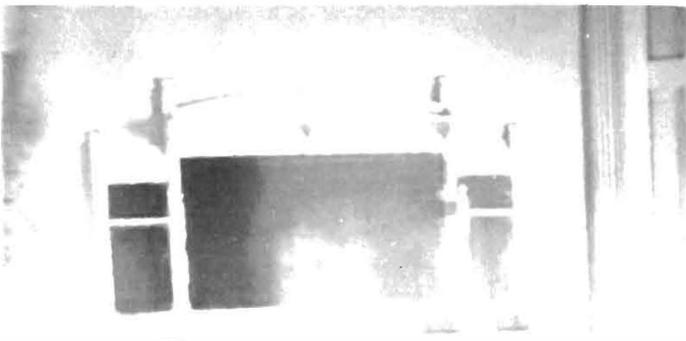


Plate 6. B-13 Officers' Quarters interior first floor.



Plate 7. B-13 Officers' Quarters interior first floor.



Plate 8. B-11 Officers' Quarters.



Plate 9. B-11 Officers' Quarters interior first floor.



Plate 10. B-3 Officers' Quarters.



Plate 11. B-2 Officers' Quarters.



Plate 12. B-2 Officers' Quarters.



Plate 13. B-2 Officers' Quarters.

The 2012 Archeological Investigations

Background and Methodology

The 2012 archeological investigations conducted by the NSHS at the site of one of the Officers' Quarters buildings (B-14) at Fort Robinson State Park began on May 14 and were completed on May 17. Four days of field work were spent on the excavations by a crew of 14 individuals including NSHS staff members and volunteers (Plate 14).

The modern setting of Building 14 is as follows: the building site is situated in an open area between the brick officers' quarters (B-15A) to the west and a former latrine building to the east which has been converted to cabin quarters. The structure stood on a nearly level terrace about 15 feet above the road that encircles the modern parade ground. To the north of the building site is the Fort access road to Carter P. Johnson Lake and the Wood Reserve and the original water towers.

The main objectives of the excavation were to: investigate the original footprint of the building and locate the four foundation corners and investigate a basement feature to the rear of the structure in hopes of recovering architectural and other remains to assist with a more accurate reconstruction and enhance interpretation.

A grid datum was established in the southwestern corner of the site with a manual transit. Bearing and distance to several stationary/permanent landmarks were also recorded relative to the datum for future reference. A 12-in long iron rebar section remains underground at this location. The grid, which was 40 m north to south by 20 m east to west, was placed near the front of the former structure just north of the extant concrete steps (Figures of the steps and aerial view when laying out grid). Measurements provided in the documented plans from the B-14 archive file guided the authors in the grid placement and dimensions. Efforts focused on encompassing the structure's footprint within the grid. Based upon measurements provided by the archive plan view, 1 x 1 m excavation units were placed in areas believed to be above the foundation corners, areas above the east and west walls of the foundation, areas above possible central foundation support walls or pillars, and finally above the reported basement feature near the rear of the quarters.

In all, 20 1 x 1 m, three 1 x 0.5 m, one 0.75 x 0.75 m, two 0.5 x 0.5 m, and two 0.25 x 0.25 m units were excavated (Figure 10). Depths ranged from 10-70 cm. Excavations resulted in various patterns and unit dimensions. Since each unit was placed with specific objectives in mind, e.g. locating the southwest corner of the foundation, several continuous units can be grouped based upon the reasons they were excavated. They are: Areas 1-4 (search for building corners); Areas 5-7 (search for exterior and interior wall foundations; Area 8 (investigate the basement feature).

Grid Areas

Brief descriptions of the eight areas will follow. General location within the gridded area; square number(s) included in their configuration; reason(s) for testing at that location; depth(s) to which excavated; testing results; and any other pertinent details will be included.

Area 1

Located in the southeast portion of the site grid, Area 1 consisted of two 1 x 1 meter squares (1N14E and 2N14E) excavated to locate the southeast corner of the foundation (Plate 15) (Figures 11, 12, and 13). The contiguous units were excavated to depths ranging from 20-40 cm. These units were originally placed as a result of exploratory shovel skimming a portion of what was assumed to be a north-south wall segment exposed on the surface. When exposed, the foundation corner consisted of limestone rocks held together by concrete mortar. The exterior face of the foundation was plastered with a smooth stucco finish approximately 2 ½ in thick. Width of the foundation wall from north to south was

40 cm; width of the foundation wall from east to west was approximately 50 cm. A clay drain pipe, oriented vertically, was exposed while cleaning around the edges of the foundation. Given the pipe's position relative to the foundation wall, it was likely outside the building. A concentration of rubble and mortar was exposed interior to the foundation corner. This may have been the result of walls crumbling during demolition (Plate 16).

Area 2

Located in the southwest portion of the site grid, Area 2 consisted of three 1 x 1 meter squares (1N0E, 1N1E and 1N2E) excavated to locate the southwest corner of the foundation (Plate 17). The contiguous units were excavated to depths ranging from 20-30 cm. The first of these units excavated (1N2E) yielded no foundation remains and was abandoned. The foundation corner, exposed in units 1N0E and 1N1E mirrored the southeast corner uncovered in Area 1. The exterior face of the foundation was also plastered with smooth stucco. Wall widths appeared to be similar to the southeast corner. Due to the position of the units within the grid, the entire interior/exterior walls of the corner were not fully exposed to enable full width measurements or observe whether fallen rubble was present interior to the foundation. A clay drainpipe, oriented vertically, was also exposed exterior to the building (Figure 14).

Area 3

Located in the northwest portion of the site grid, Area 3 consists of three 1 x 1 meter squares excavated to locate the northwest corner of the foundation. The first of the units to be dug (23N0E) was excavated to a depth of 20 cm and revealed rubble from an outside porch foundation corner and associated brick support (Plate 18) (Figures 15, 16). Two contiguous squares one meter to the east (23N2E and 23N3E) (Figure 17) were then excavated to a depth of 20 cm and revealed a heavily disturbed building foundation corner. Most of the original wall stones and mortar had been removed with only a few limestone fragments and an outside clay drain pipe remaining.

Area 4

Located in the northeast portion of the site grid, Area 4 consists of two sets of two contiguous units. The first set (23N14E and 23N15E) (Plate 19) (Figure 18) measured 1 x 0.5 m and 0.75 x 0.75 m, respectively. These units were excavated to approximately 20 cm to reveal the rear northwest corner of the structure. The other set (23N12E and 24N12E) each measured 1 x 0.5 m. These units were excavated to approximately 30 cm and revealed the northwest exterior corner at the rear of the quarters. An exterior clay drain pipe was also exposed in this set (Figure 19).

Area 5

Located along the western edge of the site grid, Area 5 consists of a roughly "U-shaped" configuration of excavation units (Plate 20). The first 1 x 1 m unit (10N2E) failed to reveal any portion of the west foundation wall. Excavation ceased at 20 cm. The west wall of the foundation was finally exposed in two contiguous units (10N0E and 10N1E) excavated to depths between 16 cm and 20 cm (Plate 21) (Figure 20). The interior face of the wall had crumbled, but the estimated width was approximately 50 cm. The exterior face of the foundation was plastered with smooth stucco. Units 11N0E and 12N0E (Plate 22) (Figure 21) were excavated to 20 cm and revealed portions of the west foundation wall, an exterior corner, and a clay drain pipe, oriented vertically, outside the building. The final two contiguous units (11N3E and 12N3E) (Figure 22, 23, and 24) were 1 x 1 m units excavated to search for an internal building foundation corner. Excavated to approximately 50 cm, the unit produced foundation stones and bricks in a rubble pile, evidently the result of demolition (Plate 23).

Area 6

Located along the eastern portion of the site grid, Area 6 consists of one set of four units (12N11E, 12N12E, 11N11E, and 11N12E) (Figure 25, 26, 27, and 28) and one set of two units (12N14E and 12N15E) (Figure 29). Of the four unit set, the first two listed measured 0.5 x 0.5 m and the second two units measured 0.25 x 0.25 m. Excavated to a depth of 45 cm these units revealed a portion of a disturbed interior wall (Plate 24). The set of two contiguous units were excavated to depths ranging from 20-40 cm. Excavation of these units revealed an outside foundation corner identical in structure to the corner excavated Area 5 on the west side of the building (Plate 25). A clay drainage pipe exterior to the building was also uncovered (Plate 26).

Area 7

Located near the center of the site grid, Area 7 consists of one 1 x 1 m square (11N7E). This unit was excavated to a depth of 10 cm to expose remains of a possible interior foundation wall and a large concrete and brick support (Plate 27) (Figure 30).

Area 8

Located near the rear of the structure and the north end of the site grid, Area 8 consists of two contiguous 1 x 1 m units (23N9E and 24N9E) (Figure 31, 32, 33, 34, and 35). These units were excavated to depths ranging from 40-70 cm to investigate the rear of the quarters and the basement feature. The first of these units excavated (23N9E) exposed a foundation wall section running from east to west associated with the rear of the building. The second unit excavated to the north is most likely associated with a basement type feature. Plans from the archive file indicate the feature measured 14 x 30 ft. A considerable amount of coal and clinker (burned coal) was recovered from these units (Plates 28, 29).

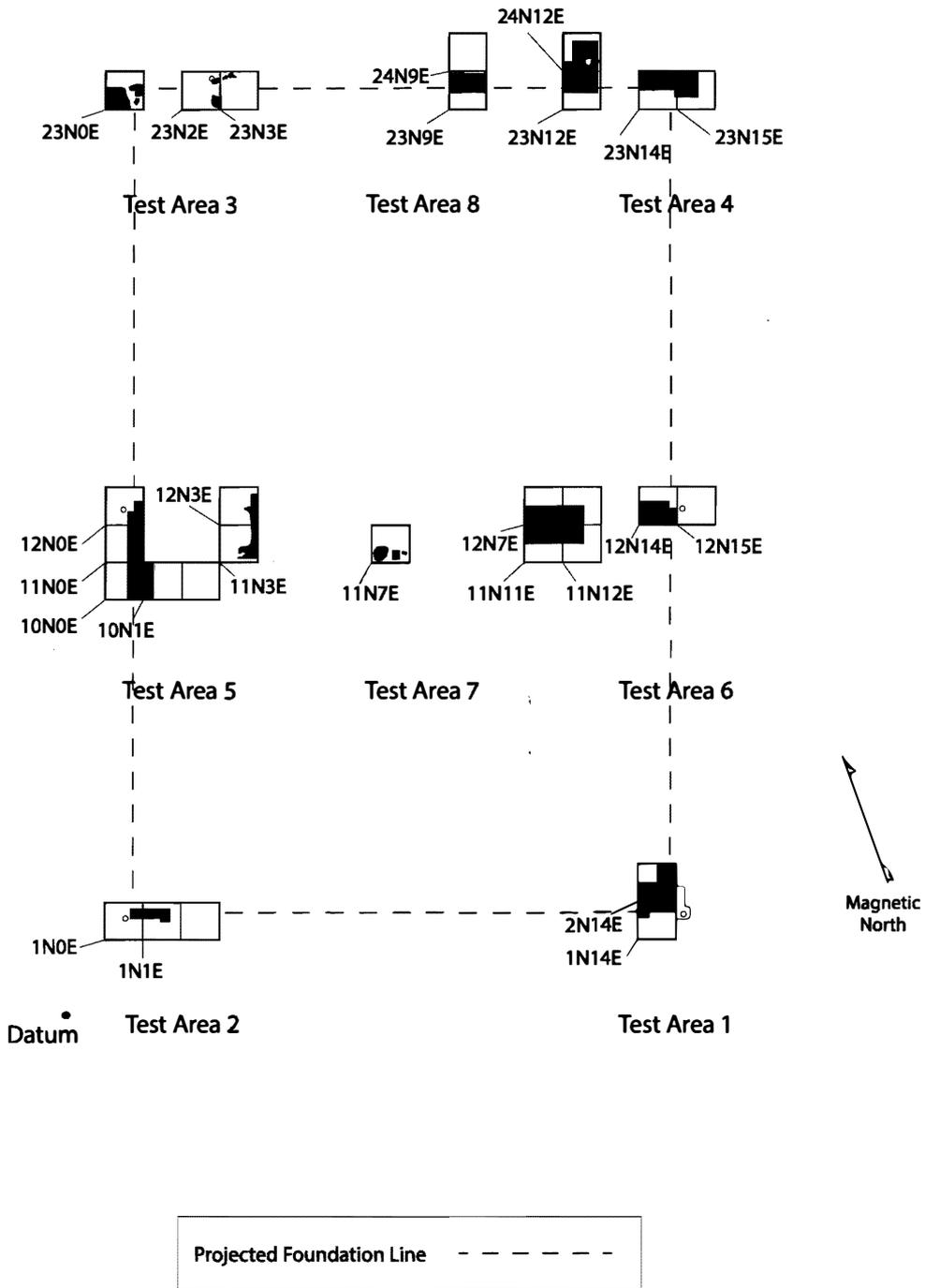


Figure 10. Plan view of 2012 test units excavated at 25DW55-B-14 Officers' Quarters.

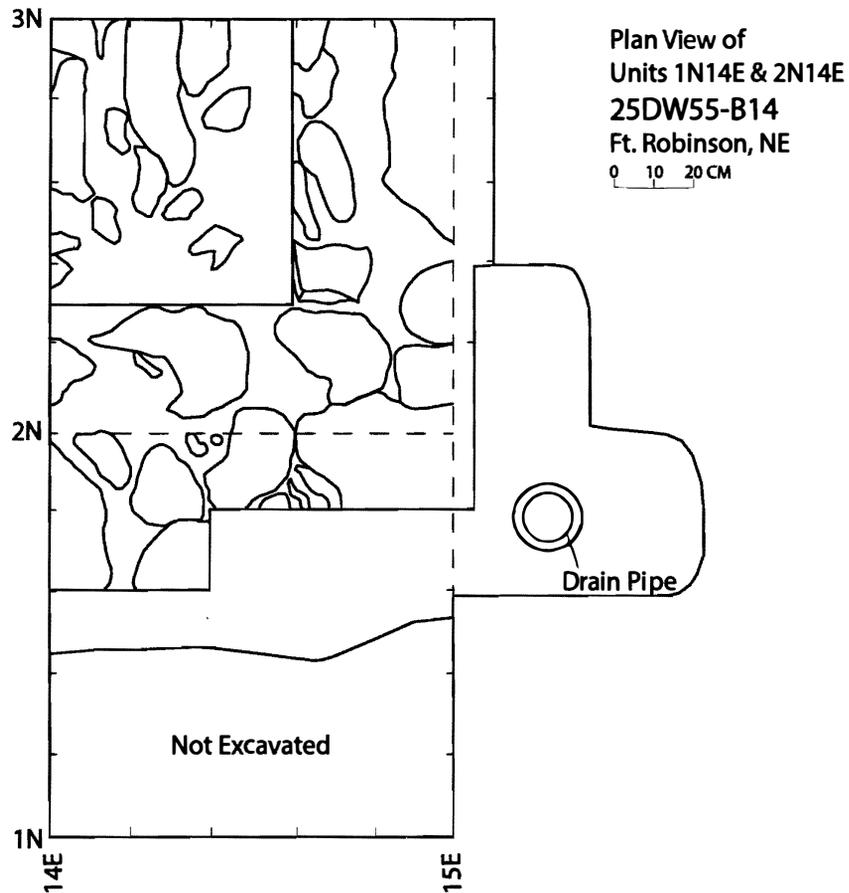


Figure 11. Plan view of test units 1N 14E & 2N 14E (Test Area 1), showing the southeast corner of the building foundation and exterior drain pipe.

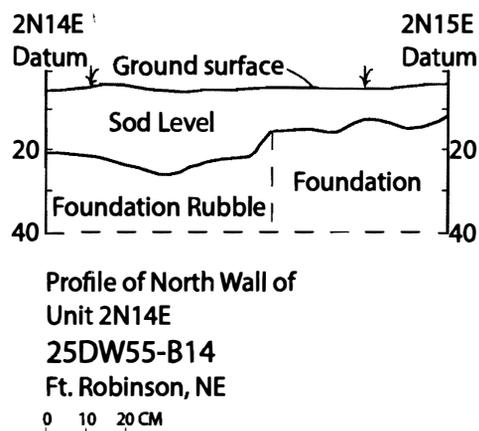


Figure 12. Profile of test unit 2N 14E (Test Area 1) north wall, showing foundation and interior rubble.

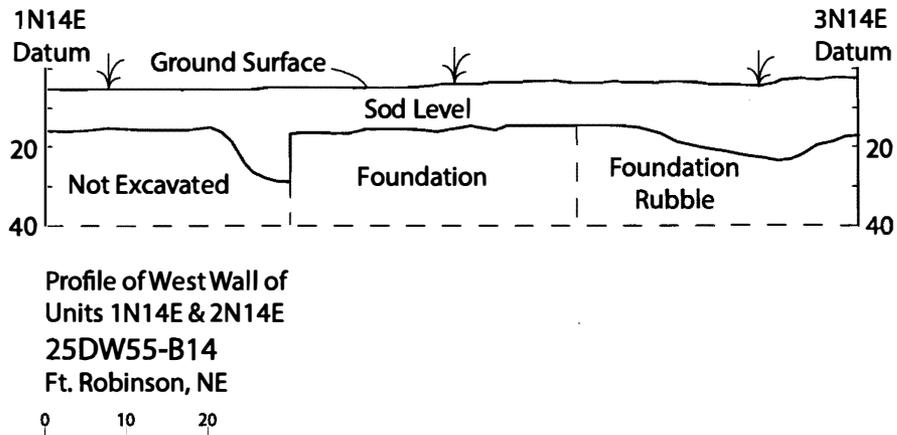


Figure 13. Profile of test units 1N 14E & 2N 14E (Test Area 1) west wall, showing foundation and interior rubble.

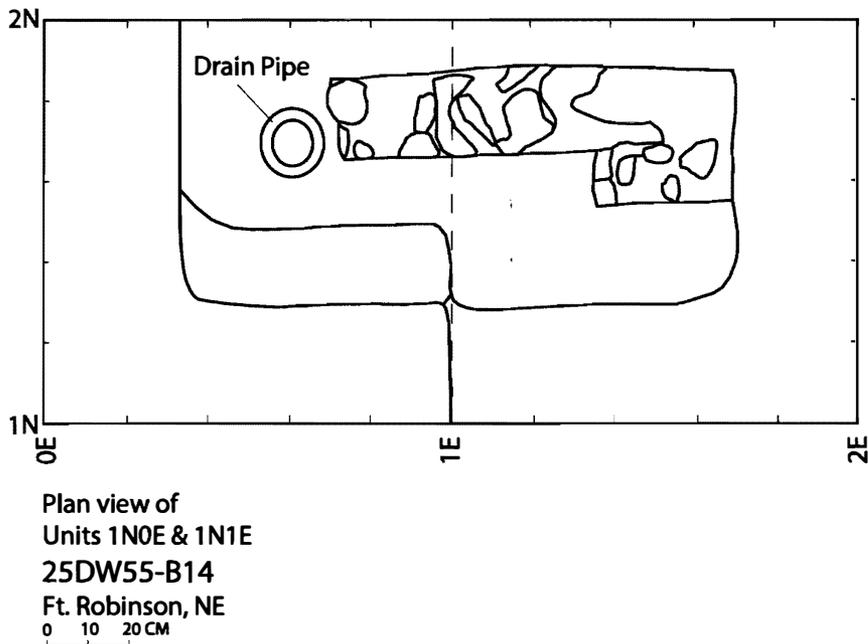


Figure 14. Plan view of test units 1N 0E & 1N 1E (Test Area 2), showing southwest corner of the building foundation and exterior drain pipe.

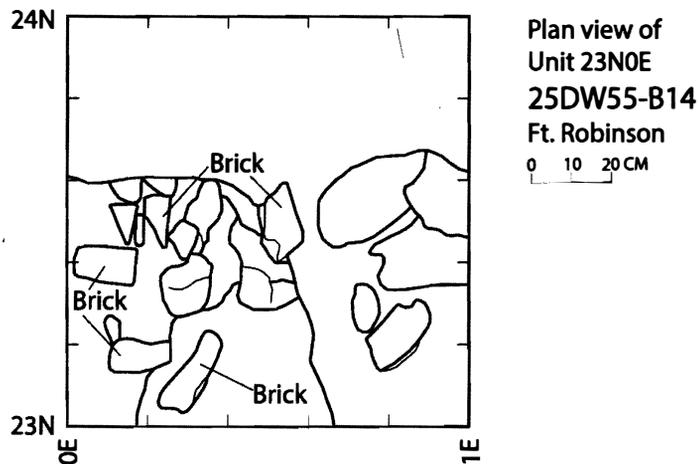


Figure 15. Plan view of test unit 23N 0E (Test Area 3), showing outside porch foundation corner and brick support remnants.

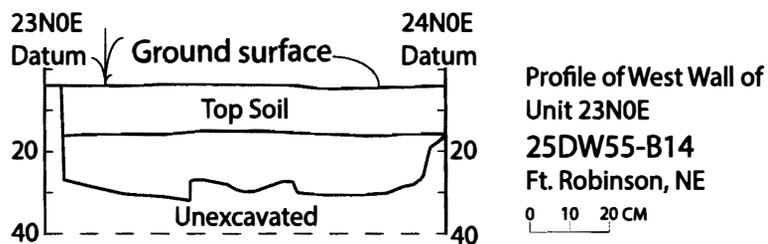


Figure 16. Profile of test unit 23N 0E (Test Area 3), west wall.

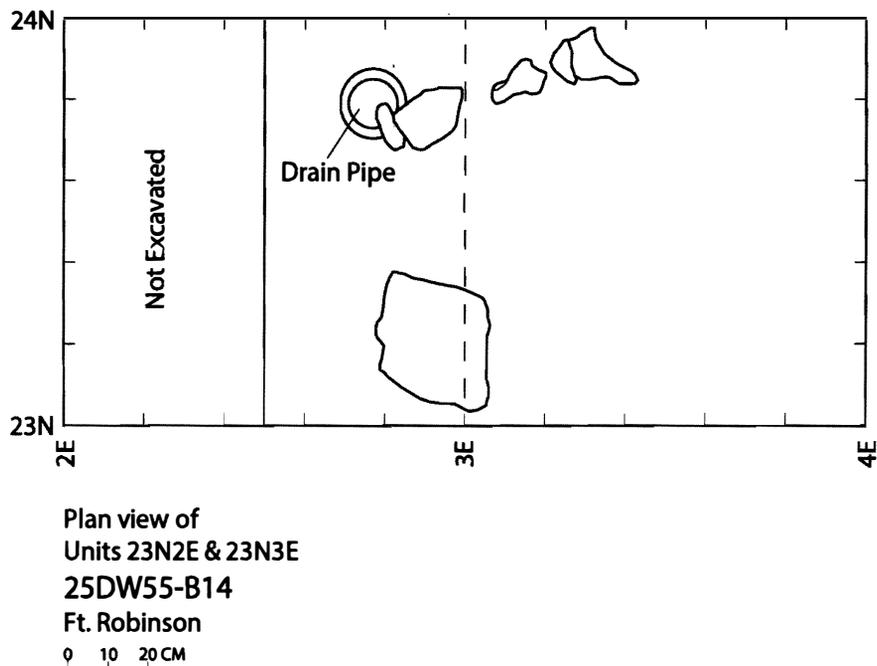
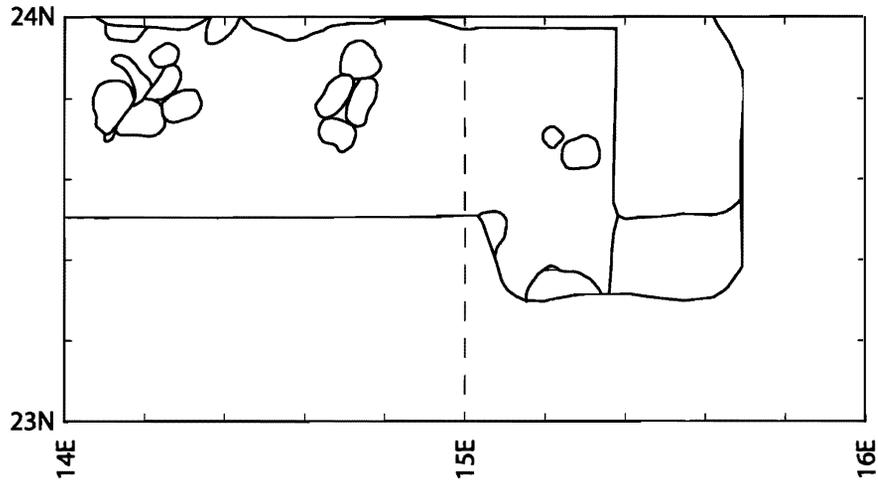
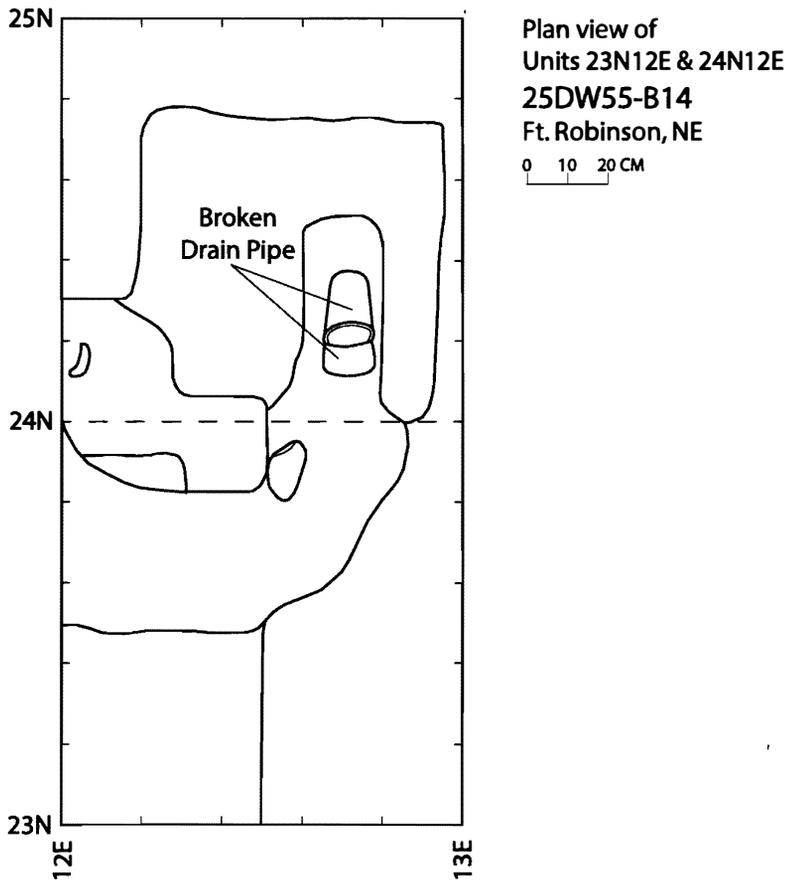


Figure 17. Plan view of test units 23N 2E & 23N 3E (Test Area 3), showing heavily disturbed northwest corner of building with exterior drain pipe in situ.



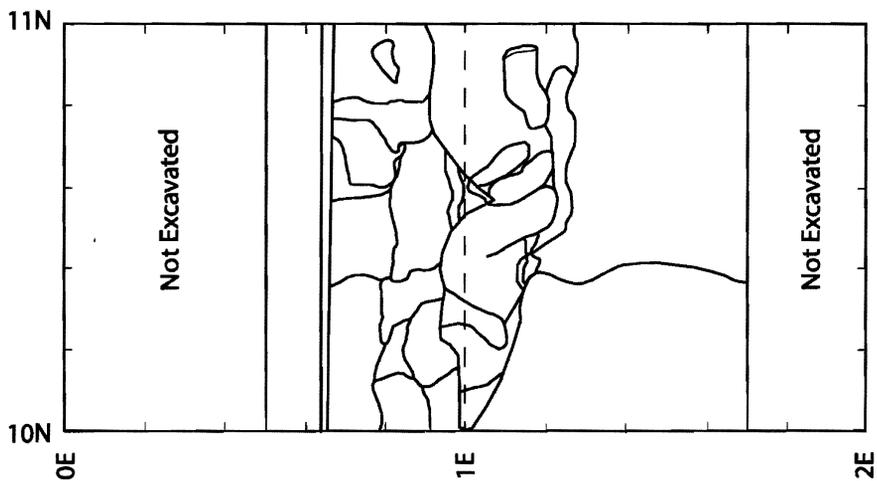
Plan view of
 Units 23N14E & 23N15E
 25DW55-B14
 Ft. Robinson, NE
 0 10 20 CM

Figure 18. Plan view of test units 23N 14E & 23N 15E (Test Area 4), showing northeast corner of the remodeled building.



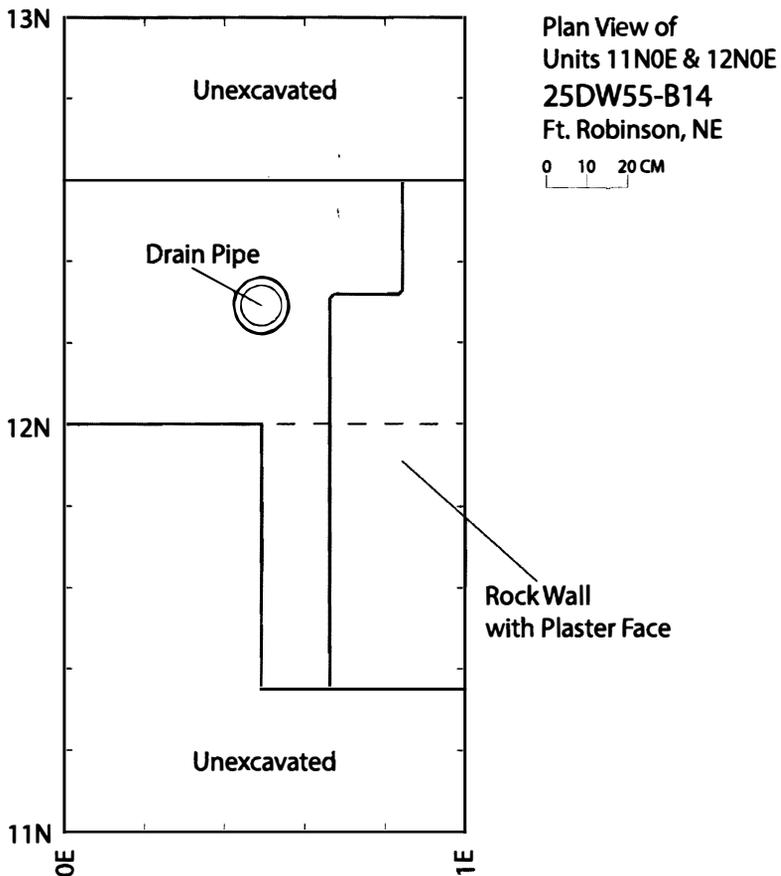
Plan view of
 Units 23N12E & 24N12E
 25DW55-B14
 Ft. Robinson, NE
 0 10 20 CM

Figure 19. Plan view of test units 23N 12E & 24N 12E (Test Area 4), showing original northeast corner of building and exterior drain pipe.



Plan view of
Units 10N0E & 10N1E
25DW55-B14
Ft. Robinson, NE
0 10 20 CM

Figure 20. Plan view of test units 10N 0E & 10N 1E (Test Area 5), showing west wall remnant of building foundation.



Plan View of
Units 11N0E & 12N0E
25DW55-B14
Ft. Robinson, NE
0 10 20 CM

Figure 21. Plan view of test units 11N 0E & 12N 0E (Test Area 5), showing portions of west foundation wall, corner of original porch, and exterior drain pipe.

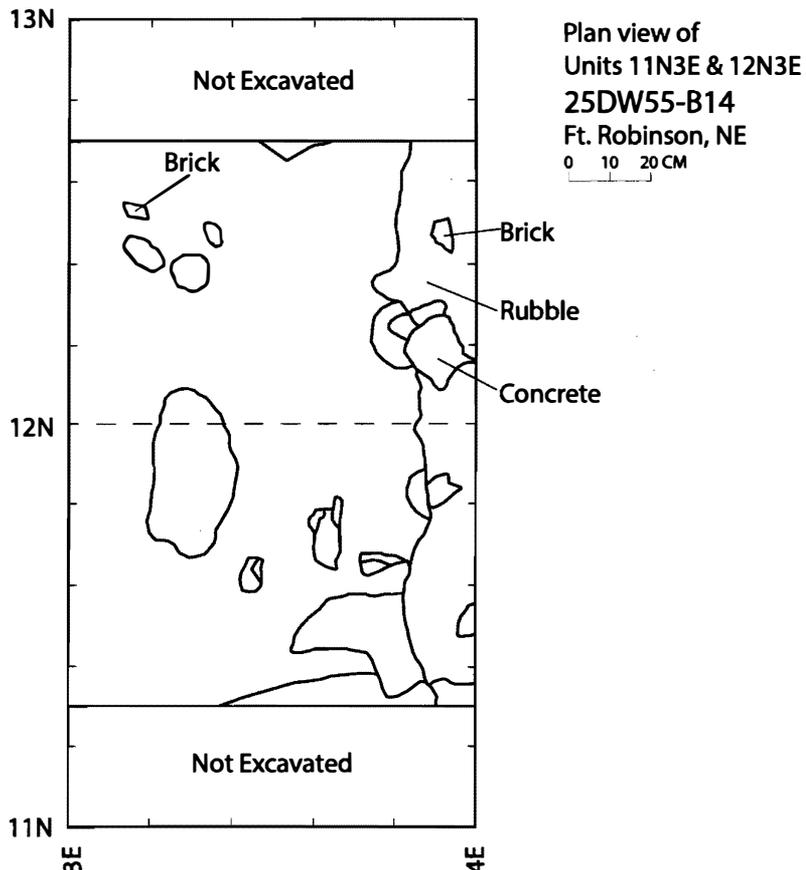


Figure 22. Plan view of test units 11N 3E & 12N 3E (Test Area 5), showing interior rubble pile of foundation stones and brick fragments.

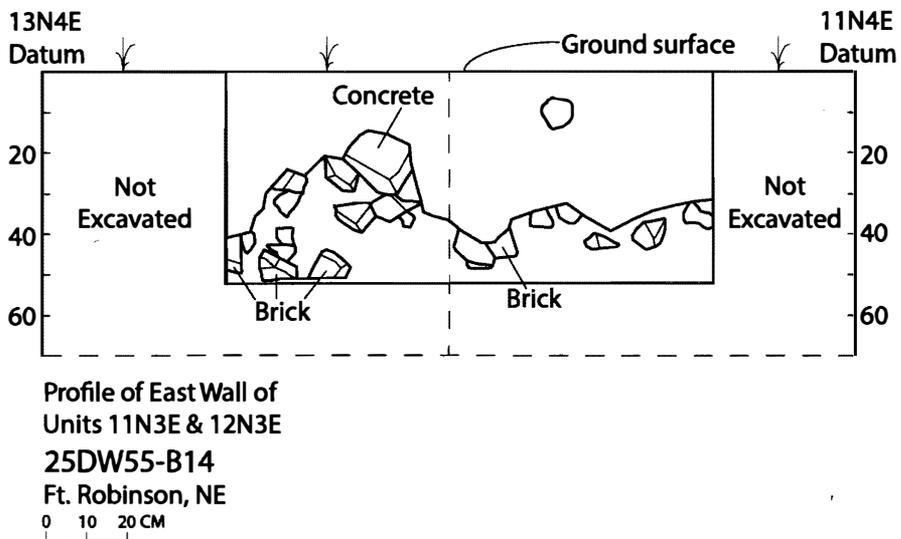


Figure 23. Profile of test units 11N 3E & 12N 3E (Test Area 5) east wall, showing interior rubble pile of foundation stones and brick fragments.

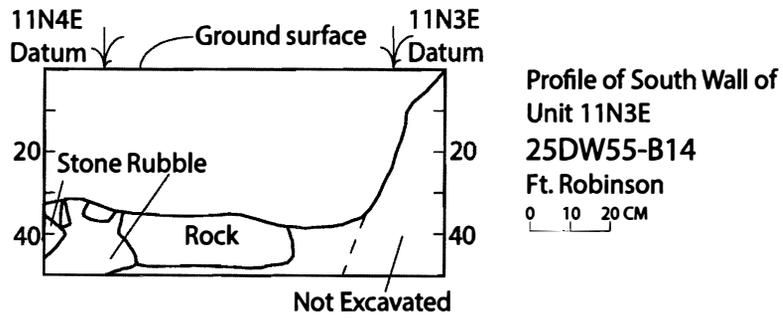
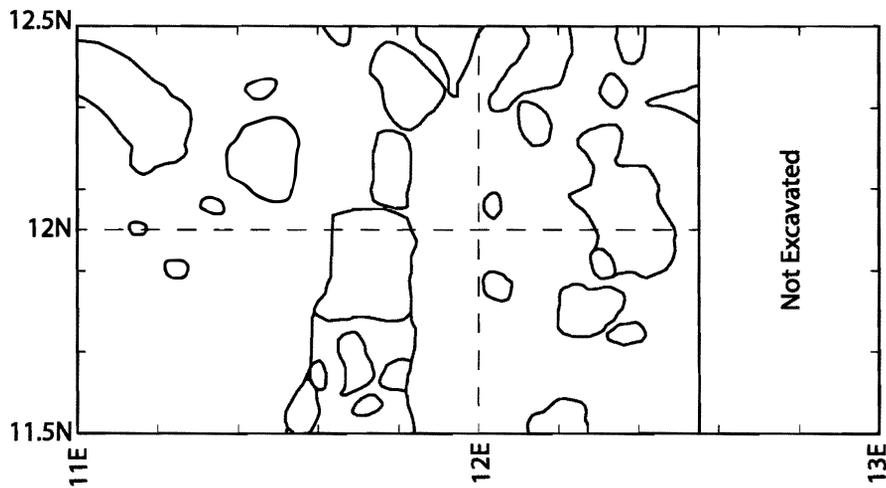


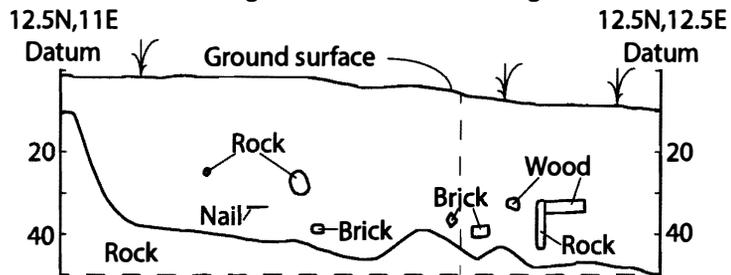
Figure 24. Profile of test unit 11N 3E (Test Area 5) south wall, showing interior rubble pile of foundation stones.



Plan view of
Units 11N11E, 12N11E, 11N12E & 12N12E
25DW55-B14
Ft. Robinson, NE

0 10 20 CM

Figure 25. Plan view of test units 11N 11E, 12N 11E, 11N 12E, & 12N 12E (Test Area 6), showing portion of disturbed interior wall along eastern side of building.



Profile of North Wall of
12.5N11E-12.5N12.5E
25DW55-B14
Ft. Robinson, NE

0 10 20 CM

Figure 26. Profile of test units 12.5N 11E & 12.5N 12.5E (Test Area 6) north wall, showing portion of interior wall rubble.

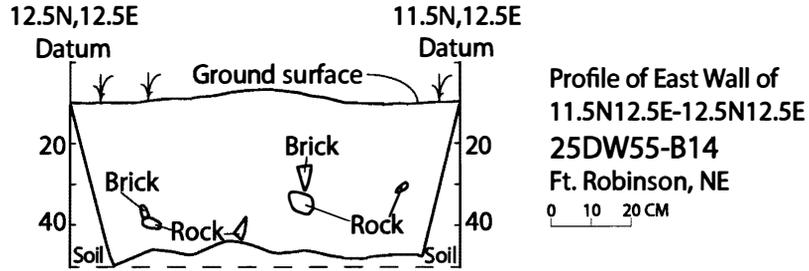


Figure 27. Profile of test units 12.5N 12.5E & 11.5N 12.5E (Test Area 6) east wall, showing portion of interior wall rubble.

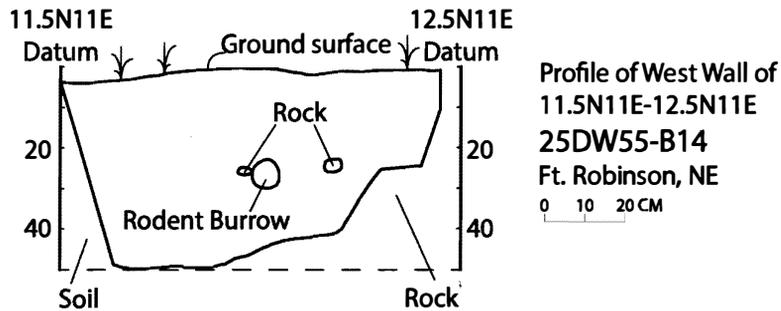


Figure 28. Profile of test units 11.5N 11E & 12.5N 11E (Test Area 6) west wall, showing portion of interior wall rubble.

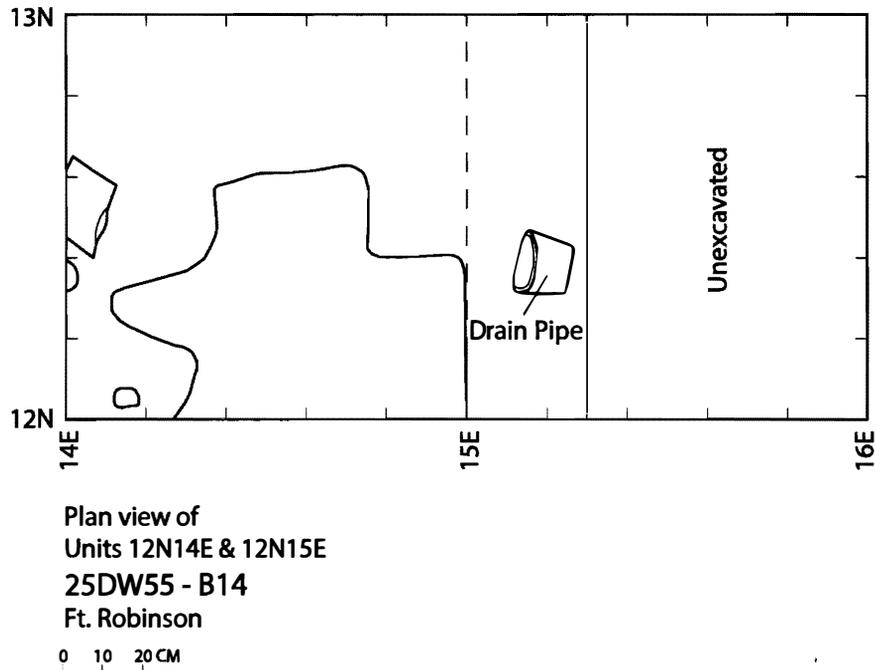


Figure 29. Plan view of test units 12N 14E & 12N 15E (Test Area 6), showing corner of original porch along east foundation wall and exterior drain pipe.

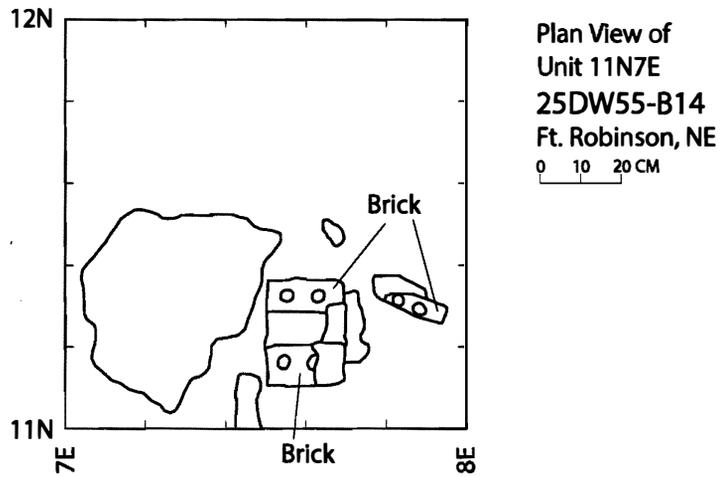


Figure 30. Plan view of test unit 11N 7E (Test Area 7), showing possible interior foundation wall and concrete/brick support.

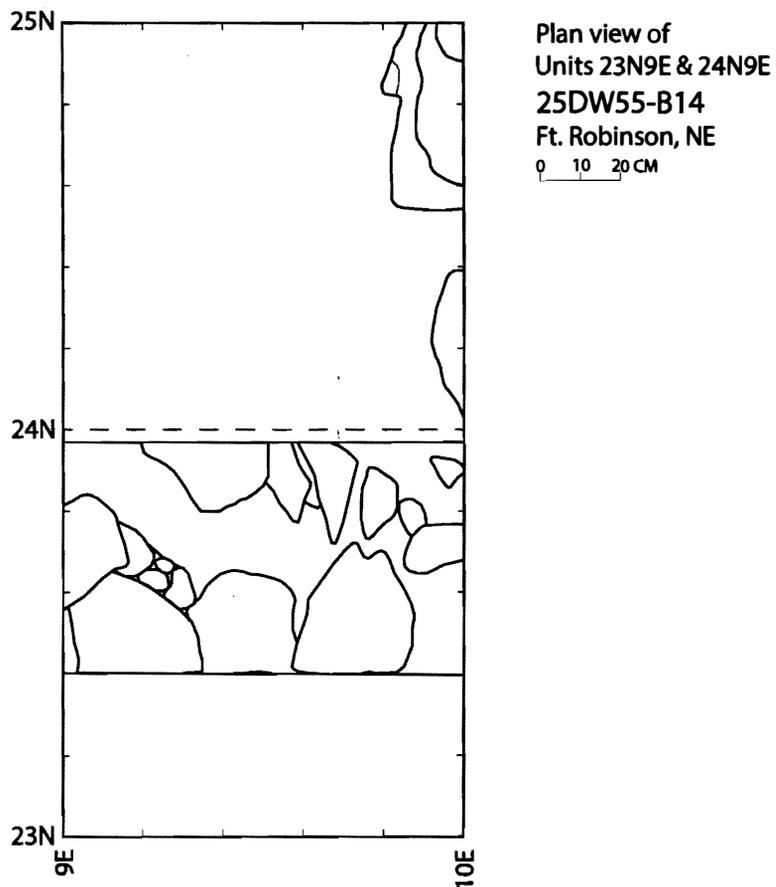


Figure 31. Plan view of test units 23N 9E & 24N 9E (Test Area 8), showing rear wall of building foundation.

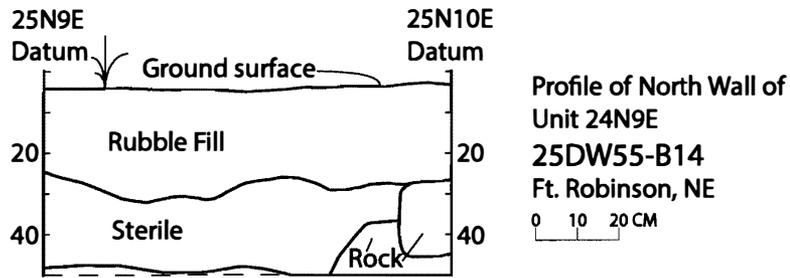


Figure 32. Profile of test unit 24N 9E (Test Area 8) north wall, showing rubble filled basement feature.

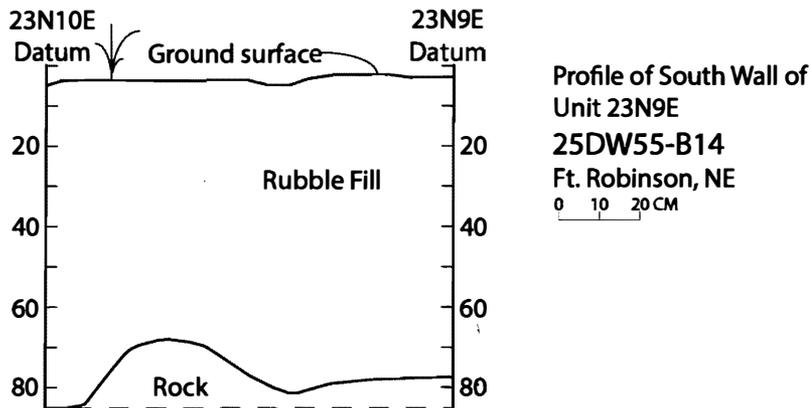


Figure 33. Profile of test unit 23N 9E (Test Area 8) south wall, showing rubble filled basement feature.

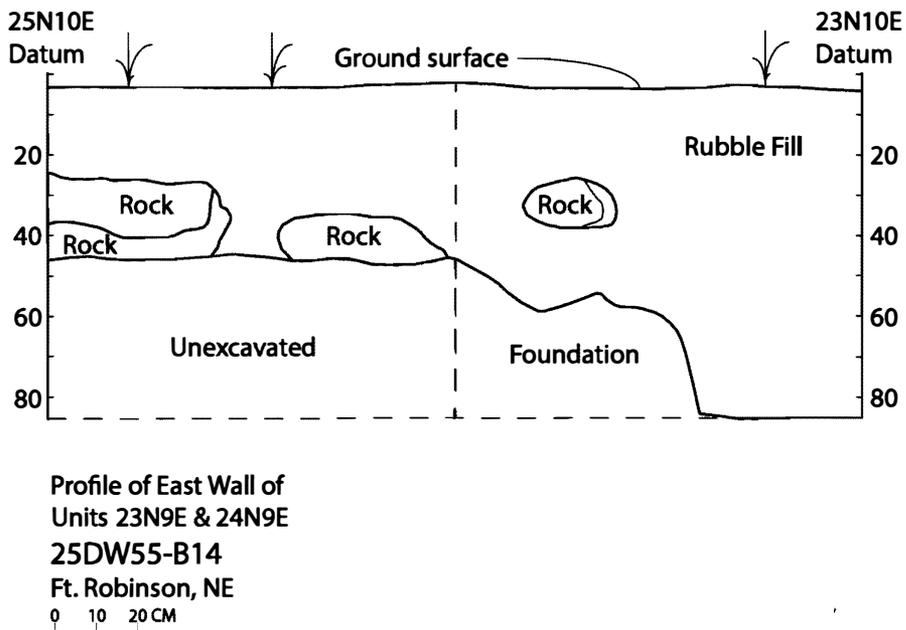
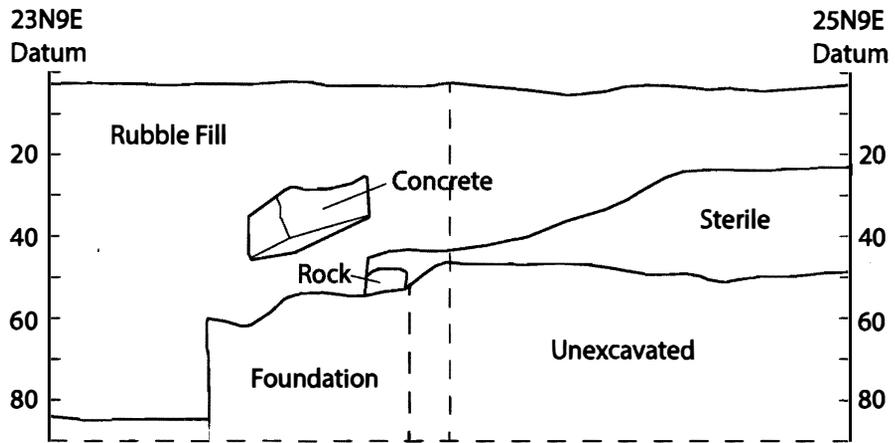


Figure 34. Profile of test units 23N 9E & 24N 9E (Test Area 8) east wall, showing rear wall of foundation.



Profile of West Wall of
 Units 23N9E & 24N9E
 25DW55-B14
 Ft. Robinson, NE

0 10 20 CM

Figure 35. Profile of test units 23N 9E & 24N 9E (Test Area 8) west wall, showing rear wall of foundation.



Plate 14. Excavation crew: (left to right, top to bottom) Floyd Counts, Terry Steinacher, Amy Koch, Kelli Bacon, Holly Counts, Marcia Counts, Karen Humphrey, Patrick Haynes, Grey Veys, Carla Plantikow, Connor Rodenbaugh, and Madeline Rodenbaugh (Rex Rodenbaugh and John Murphy, not pictured).



Plate 15. Plan view of Test Area 1 (southeast corner of building) includes test units 1N 14E & 2N 14E.



Plate 16. Connor Rodenbaugh mapping a plan view of Test Area 1.



Plate 17. Plan view of Test Area 2 (southwest corner of building) includes test units 1N 0E, 1N 1E, & 1N 2E.



Plate 18. Plan view of Test Area 3 (outside porch foundation corner and brick support remnants) includes test unit 23N 0E.



Plate 19. Plan view of Test Area 4 (northeast corner of remodeled building) includes test units 23N 14E, 23N 15E, 23N 12E, & 24N 12E.



Plate 20. Grey Veys and Carla Plantikow draw profiles for units in Area 5, while Terry Steinacher and Madeline Rodenbaugh confer about the basement feature.



Plate 21. Plan view of Area 5 west wall, includes test units 10N 2E, 10N 0E, 10N 1E, 11N 0E, 12N 0E, 11N 3E, & 12N 3E.



Plate 22. Plan view of Test Area 5 with corner of original porch and exterior drainage pipe .



Plate 23. Plan view of Test Area 5 interior wall rubble.



Plate 24. Plan view of Test Area 6 disturbed interior wall includes test units 12N 11E, 12N 12E, 11N, 11E, 11N 12E, 12N 14E, & 12N 15E.



Plate 25. Plan view of Test Area 6 corner of original porch along east foundation with exterior drain pipe includes test unit 12N 14E.



Plate 26. Patrick Haynes and Kelli Bacon draw profiles for units in Area 6.



Plate 27. Plan view of Test Area 7 possible interior wall with brick support includes test unit 11N 7E.



Plate 28. Plan view of Test Area 8 (back of building) includes test units 23N 9E & 24N 9E.

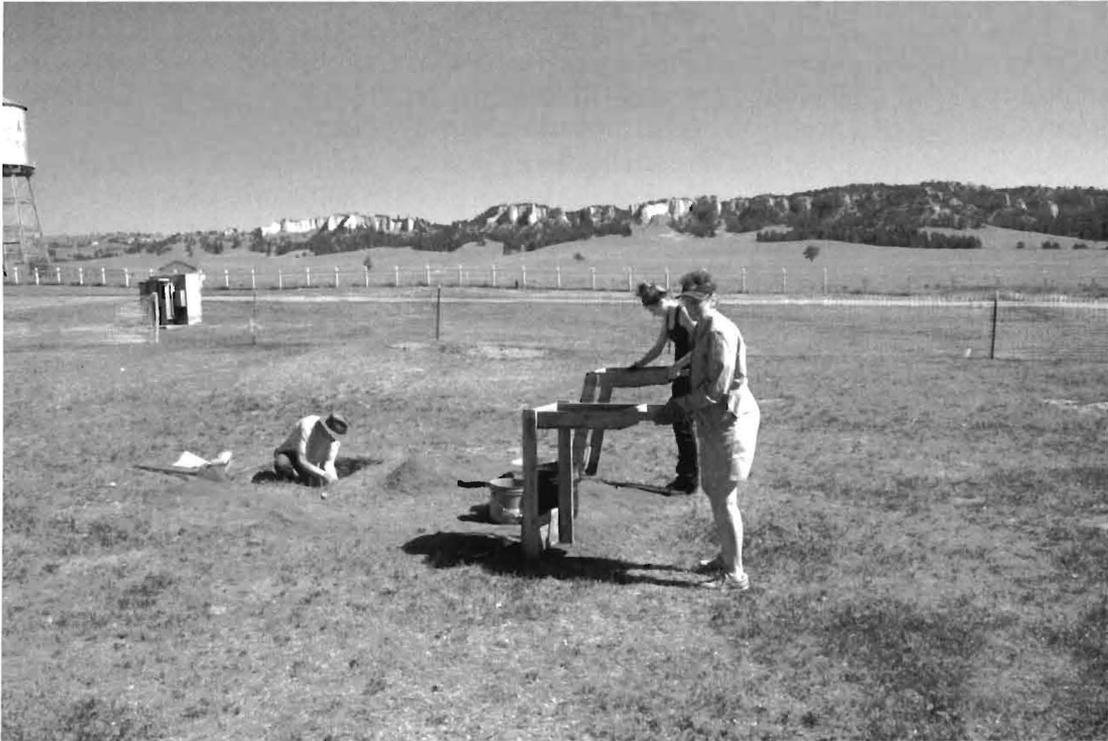


Plate 29. Karen Humphrey and Madeline Rodenbaugh screen soil as Floyd Counts excavates in Test Area 8.

Materials Recovered

Following completion of fieldwork, all bagged material was returned to the laboratory of the Nebraska State Historical Society in Lincoln for processing. All items were cleaned and/or stabilized and catalogued. Material was catalogued by provenience, material type, and general category. Upon completion of cataloguing, the analytical phase of laboratory work was undertaken. Excluding the recovered faunal sample (see Appendix A), the majority of recovered artifacts are tabulated and described below. Recovered artifacts were measured using inches and tenths units with weight in grams.

Ceramics

Household Ceramics

All the household ceramics recovered from the excavation were small fragments. No complete or nearly complete items were found. Table 1 provides a list of recovered ceramics organized by excavation unit. The fragments are described as follows:

Pearlware – one rim fragment (Plate 30: a).

Ironstone – two rim fragments (Plate 30: b).

“Whiteware” This category includes ceramics that are from circa 1900 and later. – four body fragments and one handle fragment (Plate 30: c, d).

Decorated “Whiteware” – One decal decorated rim fragment with green/red/yellow floral pattern, and one body fragment with red decal floral pattern (Plate 30: e, f).

Porcelain – one body fragment and a handle fragment (Plate 30: g).

Glazed Earthenware – three body fragments (Plate 30: h, i).

Stoneware – two body fragments.

Tile – one glazed yellowish-brown fragment (Plate 30: j).

Clay Drain Pipes

Six clay drain pipes were uncovered during excavation. At each corner of the building foundation and along two corners of the former porches, clay drain pipes ran vertically into the ground to drain roof runoff away from the building (Plate 31). Forty-nine clay drain pipe fragments were recovered, weighing 4.5 kg. A section of one of the corner pipes was preserved (Plate 32).

Household Related Hardware and Other Artifacts

A number of household related hardware parts were recovered and are organized by test unit in Table 2. Recovered items included: staples (Plate 33: a), wood screws (Plate 33: b, c), a hexagonal nut and a square nut (Plate 33: d, e), a spring fragment, and washer (Plate 33: f, g). Eighty-two cut nails and 284 wire-cut nails were also recovered. All were highly corroded.

Wire

Seven wire sections of various gauges were recovered.

Metal Fragments

Unidentifiable ferrous metal fragments weighing 266.0 g are organized by test unit in Table 2.

Door, Window, and Other Hardware

This material includes a window shade bracket, a barrel bolt latch catch, a gate latch, and a fragment of cast iron window weight (Plate 34: a, b, c, d).

Shingles

Over 200 asphalt shingle fragments were recovered and recorded by weight (126.6 g).

Slate

Eighteen small fragments (7.6 g) of slate were recovered.

Paint Chips

Several small paint chips of indeterminate color were found.

Coal, Slag, and Clinker

Over 2.6 kg of coal, slag, or clinker fragments was recovered.

Wood Fragments

Approximately 542.9 g of unidentified wood fragments were recovered.

Glass

Identified Bottle Glass and Caps

Two base segments of rectangular bottles are represented (Plate 35: a, b). One base has a slight base rim of blue-green glass, and a second of a clear glass. The second is marked on the base with a "7", a "P" within a circle, and the number "258". In addition on one of the narrow sides the letters "CAS...".

Three neck and rim fragments of bottles were recovered. The first fragment is from a clear glass bottle manufactured by an automated bottle machine (Plate 35: c). Another fragment of a narrow-necked bottle is made from a light-pinkish glass (Plate 35: d). The final glass fragment is a rim section from a clear glass bottle with a round lip and molded flutes on the neck (Plate 35: e). Two metal bottle caps for soda or beer bottles were also recovered (Plate 35: f).

Unidentified Flat/Curved Glass and Bottle Glass Fragments

Table 3 summarizes the glass fragments. Most are either window glass (184.2 g) or broken bottle glass (186.5 g). One small piece of milk glass and a few small pieces of lamp shade glass are also present.

Munitions

25DW55-B14 munitions are listed by test unit in Table 4. A total of six cartridge cases were recovered. One 22 Short, two 22 BB Caps, and two appear to be 22 Long or Extra Long (one is a fragment). Three have head stamps of "U", one of "H", and the final one a "P". Examples of 22-caliber cartridges are displayed in Plate 36: a. One cartridge case is from a 45-caliber center-fire and the head was too corroded to make out any stamping (Plate 36: b). One complete 22 Extra Long cartridge with a "U" head stamp was recovered (Plate 36: c). Two intact bullets were

recovered. One is a 38 caliber lead bullet and one is a No. 2 shot pellet (Plate 36: d, e). In addition, six smashed lead bullet fragments were found (Plate 36: e).

Clothes Fasteners

Clothes fasteners are listed by test unit in Table 5. One white ceramic button fragment with what appears to be two thread holes was recovered (Plate 37: a). Other fasteners include two shell buttons, one with four thread holes and one with two thread holes (Plate 37: b, c) and a heavily corroded metal pants button (Plate 37: d). One fragment of a safety pin and two fragments of a probable suspender buckle were also recovered (Plate 37: e, f).

Miscellaneous Artifacts and Other Items

Miscellaneous artifacts and other items are listed by test unit in Table 6.

Twine

A section of twisted cord of unknown function was recovered.

Miscellaneous Stone

This category includes recovered natural stone, asbestos, and other rock.

Mica

One small fragment of mica was recovered during excavation.

Plastic

Four complete plastic items were recovered. These items include: a decorative circular cap made of light yellow plastic, a red Kool-Aid Kool-Burst bottle cap from the 1980s period, a domed shaped yellow plastic cap and a light pink plastic cap deformed from heating (Plate 38: a, b, c, d).

Floral Remains

Five peach pit fragments were recovered.

Rubber

Three fragments of rubber were found. Two are sections of a narrow hose and one is a flat piece of unidentified origin.

Paper

A tiny fragment of paper with reddish marks was recovered.

Miscellaneous Artifacts

Additional items recovered included a gallon paint can lid (Plate 39), a cavalry picket pin (Plate 40), a pencil eraser, and two clothes pin springs.

The final item is a small cast pewter or lead bulldog head finial made to fit onto a circular rod with fragments of reddish paint on the mouth and white on the eyes (Plate 41).

Table 1. 25DW55-B-14 Ceramics.

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
0N 0E	043-009	10-20	Stoneware	1	1.46	0	0	0.63	0	0	0.65	0	0	8.4
0N 0E	044-004	20-30	Stoneware	1	0.96	0	0	0.61	0	0	0.3	0	0	3.5
01N 02E	004-006	10-20	Whiteware	1	0.37	0	0	0.36	0	0	0.1	0	0	0.4
11N 0E	012-006	10-20	Earthenware	1	1.4	0	0	0.89	0	0	0.25	0	0	4.7
11N 0E	012-007	10-20	Clay Drain Pipe	6	0	3.64	0.63	0	2.91	0.47	0	1.45	0.16	361.5
12N 11E	013-004	0-10	Earthenware	1	1.47	0	0	1.02	0	0	0.52	0	0	16.7
12N 11E	013-007	0-10	Whiteware	1	0.51	0	0	0.47	0	0	0.15	0	0	0.6
12N 11E	021-011	0-45	Clay Drain Pipe	2	0	6.84	1.37	0	3.08	0.56	0	1.08	0.46	359.3
12N 14E	018-010	10-20	Clay Drain Pipe	5	0	1.14	0.55	0	1.05	0.3	0	0.36	0.14	6.3
12N 14E	018-003	20-30	Clay Drain Pipe	5	0	1.83	0.57	0	1.43	0.3	0	0.41	0.1	22.5
12N 14E	019-011	20-30	Clay Drain Pipe	10	0	5.44	0.53	0	4.46	0.38	0	1.57	0.09	762.3
23N 0E	022-003	0-10	Porcelain	2	0	0.71	0.66	0	0.41	0.27	0	0.21	0.19	1.4
23N 02E	024-003	10-20	Clay Drain Pipe	5	0	2.93	2.15	0	2.41	1.36	0	0.75	0.7	290.4
23N 02E	024-002	10-20	Pearlware	1	0.57	0	0	0.37	0	0	0.13	0	0	0.5
23N 09E	028-019	10-20	Whiteware	1	0.78	0	0	0.33	0	0	0.22	0	0	1.2
23N 09E	027-008	0-10	Ironstone	2	0	0.82	0.5	0	0.81	0.48	0	0.17	0.14	2.5
23N 09E	028-018	10-20	Whiteware	1	0.36	0	0	0.31	0	0	0.09	0	0	0.2
23N 09E	029-014	20-30	Whiteware	1	0.91	0	0	0.69	0	0	0.08	0	0	1.2
24N 09E	040-003	30-40	Whiteware	1	1.39	0	0	0.63	0	0	0.15	0	0	2.0
24N 09E	038-014	10-20	Earthenware	1	0.51	0	0	0.38	0	0	0.29	0	0	0.7
24N 09E	037-007	0-10	Whiteware	1	0.52	0	0	0.44	0	0	0.08	0	0	0.3
24N 09E	038-015	10-20	Clay Drain Pipe	1	0.61	0	0	0.6	0	0	0.19	0	0	0.9
24N 09E	038-016	10-20	Earthenware	1	0.81	0	0	0.79	0	0	0.19	0	0	2.5
24N 12E	041-003	0-30	Clay Drain Pipe	13	0	1.75	0.36	0	1.06	0.29	0	0.78	0.1	31.2
24N 12E	041-002	0-30	Clay Drain Pipe	2	0	9.5	6.59	0	6.4	6.01	0	4.17	2.71	2666.6

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts.

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 0E	001-002	0-10	Wire Nails	7	0	3.55	0.52	0	0	0	0	0	0	28.9
01N 0E	001-001	0-10	Metal Frag	1	0	0	0	0	0	0	0	0	0	15.7
01N 01E	002-001	0-10	Cut Nails	3	0	2.51	1.18	0	0	0	0	0	0	8.5
01N 01E	044-001	20-30	Cut Nails	1	1.15	0	0	0	0	0	0	0	0	0.7
01N 01E	043-014	10-20	Cut Nails	11	0	2.48	0.76	0	0	0	0	0	0	24.8
01N 01E	002-002	0-10	Wire Nails	3	0	2.09	1.33	0	0	0	0	0	0	5.7
01N 01E	043-015	10-20	Wire Nails	20	0	3.55	1.32	0	0	0	0	0	0	73.6
01N 01E	043-016	10-20	Wire Nails	12	0	1.29	1.03	0	0	0	0	0	0	21.4
01N 01E	044-002	20-30	Wire Nails	6	0	3.03	0.92	0	0	0	0	0	0	13.1
01N 01E	002-004	0-10	Staple	1	0.87	0	0	0.43	0	0	0.09	0	0	1.0
01N 01E	002-005	0-10	Wood Screw	1	1.77	0	0	0.42	0	0	0.41	0	0	5.7
01N 01E	044-003	20-30	Wire	1	0	0	0	0	0	0	0	0	0	0.9
01N 01E	043-017	10-20	Wire	1	0	0	0	0	0	0	0	0	0	0.1
01N 01E	002-008	0-10	Metal Frag	1	0	0	0	0	0	0	0	0	0	4.5
01N 01E	002-006	0-10	Metal Frag	1	0	0	0	0	0	0	0	0	0	0.3
01N 01E	043-008	10-20	Metal Frag	2	0	0	0	0	0	0	0	0	0	22.7
01N 01E	043-013	10-20	Metal Frag	1	0	0	0	0	0	0	0	0	0	0.1
01N 01E	002-007	0-10	Latch Parts	2	0	1.56	0.47	0	1.5	0.4	0	0.63	0.34	13.3
01N 01E	043-007	10-20	Asphalt Shingle	18	0	0	0	0	0	0	0	0	0	13.4
01N 01E	002-010	0-10	Slate	1	0	0	0	0	0	0	0	0	0	0.4
01N 01E	043-006	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	9.3
01N 01E	043-004	10-20	Wood Frag	8	0	1.34	0.76	0	0.66	0.42	0	0.32	0.21	4.0
01N 01E	043-005	10-20	Wood Frag	2	0	0.95	0.7	0	0.4	0.36	0	0.1	0.08	1.4
01N 01E	044-005	20-30	Wood Frag	1	0	0	0	0	0	0	0	0	0	0.1
01N 02E	004-003	10-20	Cut Nails	1	2.41	0	0	0	0	0	0	0	0	3.2
01N 02E	003-003	0-10	Wire Nails	6	0	3.08	1.03	0	0	0	0	0	0	18.3
01N 02E	004-004	10-20	Wire Nails	17	0	3.21	1.03	0	0	0	0	0	0	55.7
01N 02E	004-002	10-20	Wood Screw	1	0.8	0	0	0.33	0	0	0.31	0	0	1.6
01N 02E	004-001	10-20	Staple	2	0	0.9	0.81	0	0.69	0.42	0	0.13	0.13	2.0
01N 02E	003-002	0-10	Washer	1	0.38	0	0	0.38	0	0	0.05	0	0	0.2
01N 02E	004-008	10-20	Metal Frag	1	0	0	0	0	0	0	0	0	0	8.3

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 02E	003-001	0-10	Metal Frag	3	0	0	0	0	0	0	0	0	0	20.2
01N 02E	003-012	0-10	Asphalt Shingle	5	0	0	0	0	0	0	0	0	0	1.8
01N 02E	004-010	10-20	Asphalt Shingle	9	0	0	0	0	0	0	0	0	0	4.9
01N 02E	003-007	0-10	Slate	4	0	0	0	0	0	0	0	0	0	0.7
01N 02E	003-011	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	22.3
01N 02E	003-010	0-10	Wood Frag	2	0	0.46	0.4	0	0.39	0.32	0	0.27	0.16	0.3
01N 02E	004-009	10-20	Wood Frag	6	0	3.09	0.4	0	0.39	0.23	0	0.38	0.06	1.7
01N 14E	005-004	0-20	Cut Nails	15	0	3.98	0.62	0	0	0	0	0	0	83.4
01N 14E	005-005	0-20	Wire Nails	14	0	3.89	0.63	0	0	0	0	0	0	54.7
01N 14E	005-003	0-20	Staple	1	0.79	0	0	0.49	0	0	0.11	0	0	0.7
01N 14E	005-002	0-20	Bolt	1	2.96	0	0	0.75	0	0	0.47	0	0	49.3
01N 14E	005-006	10-20	Metal Frag	22	0	0	0	0	0	0	0	0	0	25.2
01N 14E	005-017	0-20	Asphalt Shingle	2	0	0	0	0	0	0	0	0	0	2.1
01N 14E	005-012	0-20	Slate	3	0	0	0	0	0	0	0	0	0	1.0
01N 14E	005-015	0-20	Clinker	0	0	0	0	0	0	0	0	0	0	7.4
01N 14E	005-016	0-20	Wood Frag	2	0	2.65	2.5	0	0.66	0.45	0	0.25	0.22	4.1
10N 01E	007-003	0-10	Cut Nails	2	0	2.43	1.21	0	0	0	0	0	0	5.8
10N 01E	008-003	10-16	Cut Nails	6	0	2.97	1.44	0	0	0	0	0	0	26.6
10N 01E	008-004	10-16	Wire Nails	12	0	3.49	1.22	0	0	0	0	0	0	32.7
10N 01E	007-004	0-10	Wire Nails	11	0	3.52	1.26	0	0	0	0	0	0	30.3
10N 01E	007-002	0-10	Wood Screw	1	0.97	0	0	0.36	0	0	0.35	0	0	2.5
10N 01E	008-001	10-16	Nut	1	1.29	0	0	1.29	0	0	0.66	0	0	83.5
10N 01E	007-001	0-10	Metal Frag	5	0	0	0	0	0	0	0	0	0	21.8
10N 01E	008-007	10-16	Asphalt Shingle	2	0	0	0	0	0	0	0	0	0	0.6
10N 01E	007-008	0-10	Asphalt Shingle	9	0	0	0	0	0	0	0	0	0	6.4
10N 01E	008-006	10-16	Clinker	0	0	0	0	0	0	0	0	0	0	35.3
10N 01E	007-005	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	79.5
10N 01E	007-007	0-10	Wood Frag	2	0	0.48	0.42	0	0.32	0.26	0	0.12	0.11	0.1
10N 02E	009-008	0-10	Cut Nails	4	0	2.48	1.15	0	0	0	0	0	0	11.1
10N 02E	009-009	0-10	Wire Nails	16	0	3.03	1.14	0	0	0	0	0	0	55.8
10N 02E	010-001	10-20	Wire Nails	4	0	3.17	1.34	0	0	0	0	0	0	12.3

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
10N 02E	010-002	10-20	Wood Screw	1	1.99	0	0	0.48	0	0	0.47	0	0	9.0
10N 02E	009-006	0-10	Wood Screw	2	0	1.01	0.86	0	0.38	0.37	0	0.33	0.33	5.1
10N 02E	009-007	0-10	Metal Frag	1	0	0	0	0	0	0	0	0	0	9.3
10N 02E	010-003	10-20	Metal Frag	2	0	0	0	0	0	0	0	0	0	1.8
10N 02E	010-010	10-20	Asphalt Shingle	10	0	0	0	0	0	0	0	0	0	3.0
10N 02E	009-005	0-10	Asphalt Shingle	13	0	0	0	0	0	0	0	0	0	4.8
10N 02E	009-003	0-10	Slate	1	0	0	0	0	0	0	0	0	0	0.3
10N 02E	009-010	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	45.3
10N 02E	010-007	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	3.4
10N 02E	010-009	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	75.0
10N 02E	009-004	0-10	Wood Frag	1	0.71	0	0	0.34	0	0	0.17	0	0	0.1
10N 02E	010-008	10-20	Wood Frag	1	0.99	0	0	0.48	0	0	0.14	0	0	0.4
10N 14E	008-002	10-16	Metal Frag	1	0	0	0	0	0	0	0	0	0	7.5
11N 0E	012-010	10-20	Cut Nails	1	2.53	0	0	0	0	0	0	0	0	3.7
11N 0E	012-012	10-20	Wire Nails	9	0	3.01	0.96	0	0	0	0	0	0	20.0
11N 0E	012-009	10-20	Wood Screw	2	0	1.0	0.78	0	0.36	0.3	0	0.33	0.29	4.2
11N 0E	012-011	10-20	Metal Frag	3	0	0	0	0	0	0	0	0	0	2.5
11N 0E	012-013	10-20	Wood Frag	2	0	0.5	0.33	0	0.27	0.13	0	0.21	0.12	0.2
11N 0E	012-008	10-20	Wood Frag	1	0.46	0	0	0.19	0	0	0.16	0	0	0.2
11N 07E	011-003	0-10	Cut Nails	1	2.24	0	0	0	0	0	0	0	0	5.7
11N 07E	011-002	0-10	Wire Nails	4	0	2.6	1.31	0	0	0	0	0	0	11.0
11N 07E	011-004	0-10	Wood Screw	1	0.76	0	0	0.29	0	0	0.28	0	0	1.4
11N 07E	011-005	0-10	Staple	1	1.64	0	0	0.5	0	0	0.19	0	0	4.3
11N 07E	011-006	0-10	Wire	1	0	0	0	0	0	0	0	0	0	0.8
11N 07E	011-001	0-10	Metal Frag	1	0	0	0	0	0	0	0	0	0	13.4
11N 07E	011-012	0-10	Asphalt Shingle	2	0	0	0	0	0	0	0	0	0	1.6
11N 07E	011-008	0-10	Slate	1	0	0	0	0	0	0	0	0	0	0.7
11N 07E	011-07E	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	4.6
12N 11E	013-001	0-10	Cut Nails	2	0	2.49	0.99	0	0	0	0	0	0	5.8
12N 11E	021-003	0-45	Cut Nails	4	0	1.74	0.64	0	0	0	0	0	0	7.2
12N 11E	014-001	10-20	Wire Nails	2	0	3.07	2.7	0	0	0	0	0	0	13.2

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
12N 11E	013-002	0-10	Wire Nails	1	0.89	0	0	0	0	0	0	0	0	0.5
12N 11E	021-002	0-45	Wire Nails	18	0	3.66	1.3	0	0	0	0	0	0	69.0
12N 11E	021-014	0-45	Wood Screw	1	0.95	0	0	0.39	0	0	0.38	0	0	3.0
12N 11E	021-001	0-45	Wire	2	0	0	0	0	0	0	0	0	0	19.8
12N 11E	013-003	0-10	Metal Frag	1	0	0	0	0	0	0	0	0	0	0.6
12N 11E	021-004	0-45	Metal Frag	2	0	0	0	0	0	0	0	0	0	15.4
12N 11E	021-013	0-45	Metal Hook	1	3.45	0	0	3.24	0	0	1.58	0	0	231.9
12N 11E	014-007	10-20	Asphalt Shingle	10	0	0	0	0	0	0	0	0	0	8.0
12N 11E	021-012	0-45	Asphalt Shingle	18	0	0	0	0	0	0	0	0	0	13.7
12N 11E	014-008	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	17.3
12N 11E	013-011	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	47.5
12N 11E	021-005	0-45	Clinker	0	0	0	0	0	0	0	0	0	0	2.1
12N 11E	021-007	0-45	Wood Frag	1	3.7	0	0	3.13	0	0	0.74	0	0	27.0
12N 11E	021-008	0-45	Wood Frag	45	0	3.52	0.73	0	2.41	0.23	0	2.33	0.11	120.3
12N 11E	013-010	0-10	Wood Frag	9	0	2.36	0.66	0	0.69	0.33	0	0.77	0.17	9.1
12N 11E	014-006	10-20	Wood Frag	20	0	2.06	0.2	0	1.09	0.29	0	0.45	0.1	9.9
12N 11E	021-006	0-45	Wood Frag	1	8.89	0	0	3.59	0	0	4.64	0	0	269.5
12N 12E	015-001	0-10	Wire Nail	2	0	3.28	1.17	0	0	0	0	0	0	8.3
12N 12E	016-001	10-20	Wire Nail	2	0	1.3	1.06	0	0	0	0	0	0	1.6
12N 12E	016-002	10-20	Metal Frag	3	0	0	0	0	0	0	0	0	0	4.7
12N 12E	015-002	0-10	Metal Frag	4	0	0	0	0	0	0	0	0	0	0.4
12N 12E	015-007	0-10	Asphalt Shingle	3	0	0	0	0	0	0	0	0	0	1.1
12N 12E	016-007	10-20	Asphalt Shingle	7	0	0	0	0	0	0	0	0	0	2.6
12N 12E	015-005	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	14.0
12N 12E	016-008	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	6.5
12N 12E	015-004	0-10	Wood Frag	5	0	1.17	0.31	0	0.19	0.18	0	0.29	0.08	1.5
12N 12E	016-006	10-20	Wood Frag	3	0	0.89	0.52	0	0.56	0.27	0	0.31	0.12	0.8
12N 14E	018-001	10-20	Cut Nails	1	2.54	0	0	0	0	0	0	0	0	6.0
12N 14E	019-001	20-30	Cut Nails	2	0	2.97	1.83	0	0	0	0	0	0	6.0
12N 14E	017-001	0-10	Wire Nails	2	0	3.71	2.6	0	0	0	0	0	0	13.5
12N 14E	019-004	20-30	Wire Nails	14	0	3.6	1.35	0	0	0	0	0	0	45.6

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
12N 14E	018-002	10-20	Wire Nails	9	0	2.96	1.25	0	0	0	0	0	0	25.2
12N 14E	019-002	20-30	Nonid Nails	11	0	2.99	1.08	0	0	0	0	0	0	17.4
12N 14E	018-007	10-20	Metal Frag	1	0	0	0	0	0	0	0	0	0	0.4
12N 14E	019-003	20-30	Metal Frag	15	0	0	0	0	0	0	0	0	0	8.3
12N 14E	018-011	10-20	Asphalt Shingle	9	0	0	0	0	0	0	0	0	0	5.3
12N 14E	019-013	20-30	Asphalt Shingle	45	0	0	0	0	0	0	0	0	0	24.7
12N 14E	019-007	20-30	Slate	2	0	0	0	0	0	0	0	0	0	1.6
12N 14E	017-005	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	6.0
12N 14E	018-012	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	4.8
12N 14E	019-010	20-30	Clinker	0	0	0	0	0	0	0	0	0	0	6.6
12N 14E	018-008	10-20	Wood Frag	5	0	0	0	0	0	0	0	0	0	4.0
12N 14E	019-009	20-30	Wood Frag	10	0	0	0	0	0	0	0	0	0	9.2
12N 14E	017-007	0-10	Wood Frag	2	0	0	0	0	0	0	0	0	0	0.1
23N 0E	022-001	0-10	Wire Nails	6	0	4.22	0.81	0	0	0	0	0	0	23.8
23N 0E	023-001	10-20	Wire Nails	6	0	3.16	0.82	0	0	0	0	0	0	17.9
23N 0E	022-002	0-10	Slate	4	0	0	0	0	0	0	0	0	0	2.7
23N 0E	023-002	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	39.1
23N 0E	022-008	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	83.1
23N 0E	023-005	10-20	Wood Frag	2	0	0	0	0	0	0	0	0	0	11.4
23N 0E	022-006	0-10	Wood Frag	1	0	0	0	0	0	0	0	0	0	14.5
23N 02E	000-000	10-20	Metal Frag	1	0	0	0	0	0	0	0	0	0	1.1
23N 09E	030-004	30-40	Cut Nails	1	1.22	0	0	0	0	0	0	0	0	0.8
23N 09E	028-001	10-20	Cut Nails	10	0	2.98	1.11	0	0	0	0	0	0	29.8
23N 09E	029-001	20-30	Cut Nails	7	0	2.56	2.48	0	0	0	0	0	0	23.1
23N 09E	027-001	0-10	Cut Nails	2	0	2.97	2.48	0	0	0	0	0	0	8.9
23N 09E	028-005	10-20	Wire Nails	13	0	3.56	1.16	0	0	0	0	0	0	48.5
23N 09E	030-001	30-40	Wire Nails	7	0	3.53	1.48	0	0	0	0	0	0	27.3
23N 09E	027-005	0-10	Wire Nails	9	0	3.09	0.61	0	0	0	0	0	0	24.3
23N 09E	033-003	60-70	Wire Nails	3	0	3.07	0.7	0	0	0	0	0	0	7.3
23N 09E	029-005	20-30	Wire Nails	16	0	3.04	0.8	0	0	0	0	0	0	51.9
23N 09E	031-012	40-50	Wire Nails	6	0	3.11	1.07	0	0	0	0	0	0	12.4

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
23N 09E	032-003	50-60	Wire Nails	2	0	1.99	0.91	0	0	0	0	0	0	4.4
23N 09E	030-002	30-40	Wood Screw	1	0.77	0	0	0.39	0	0	0.38	0	0	2.4
23N 09E	030-013	30-40	Washer	1	0.61	0	0	0.61	0	0	0.04	0	0	0.5
23N 09E	028-002	10-20	Nut	1	0.67	0	0	0.65	0	0	0.32	0	0	10.9
23N 09E	033-002	60-70	Wood Screw	1	0.78	0	0	0.3	0	0	0.3	0	0	1.9
23N 09E	029-006	20-30	Wood Screw	1	0.8	0	0	0.26	0	0	0.26	0	0	1.4
23N 09E	027-004	0-10	Staple	1	0.95	0	0	0.62	0	0	0.3	0	0	1.2
23N 09E	032-002	50-50	Wire	1	0	0	0	0	0	0	0	0	0	0.7
23N 09E	029-004	20-30	Wire	1	0	0	0	0	0	0	0	0	0	3.4
23N 09E	031-011	40-50	Metal Frag	8	0	0	0	0	0	0	0	0	0	10.5
23N 09E	033-001	60-70	Metal Frag	3	0	0	0	0	0	0	0	0	0	0.2
23N 09E	029-015	20-30	Metal Frag	3	0	0	0	0	0	0	0	0	0	0.7
23N 09E	029-016	20-30	Metal Frag	1	0	0	0	0	0	0	0	0	0	0.6
23N 09E	032-001	50-60	Metal Frag	3	0	0	0	0	0	0	0	0	0	9.9
23N 09E	029-003	20-30	Metal Frag	1	0	0	0	0	0	0	0	0	0	4.3
23N 09E	028-012	10-20	Metal Frag	5	0	0	0	0	0	0	0	0	0	8.9
23N 09E	028-004	10-20	Metal Frag	1	0	0	0	0	0	0	0	0	0	0.1
23N 09E	027-003	0-10	Metal Frag	3	0	0	0	0	0	0	0	0	0	4.3
23N 09E	028-011	10-20	Hardware	1	2.02	0	0	0.87	0	0	0.47	0	0	13.0
23N 09E	033-009	60-70	Asphalt Shingle	2	0	0	0	0	0	0	0	0	0	0.9
23N 09E	027-010	0-10	Asphalt Shingle	7	0	0	0	0	0	0	0	0	0	2.4
23N 09E	028-013	10-20	Asphalt Shingle	12	0	0	0	0	0	0	0	0	0	9.0
23N 09E	029-011	20-30	Asphalt Shingle	15	0	0	0	0	0	0	0	0	0	10.7
23N 09E	032-013	50-60	Asphalt Shingle	1	0	0	0	0	0	0	0	0	0	0.6
23N 09E	030-009	30-40	Asphalt Shingle	1	0	0	0	0	0	0	0	0	0	1.0
23N 09E	033-009	60-70	Slate	2	0	0	0	0	0	0	0	0	0	0.2
23N 09E	033-008	60-70	Paint Chips	7	0	0	0	0	0	0	0	0	0	0.1
23N 09E	028-009	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	456.1
23N 09E	033-005	60-70	Clinker	0	0	0	0	0	0	0	0	0	0	20.0
23N 09E	029-009	20-30	Clinker	0	0	0	0	0	0	0	0	0	0	455.3
23N 09E	027-012	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	179.5

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
23N 09E	030-006	30-40	Clinker	0	0	0	0	0	0	0	0	0	0	139.8
23N 09E	032-012	50-60	Clinker	0	0	0	0	0	0	0	0	0	0	25.1
23N 09E	031-006	40-50	Clinker	0	0	0	0	0	0	0	0	0	0	27.9
23N 09E	032-011	50-60	Wood Frag	16	0	0	0	0	0	0	0	0	0	5.2
23N 09E	028-006	10-20	Wood Frag	12	0	0	0	0	0	0	0	0	0	6.7
23N 09E	027-011	0-10	Wood Frag	4	0	0	0	0	0	0	0	0	0	0.6
23N 09E	031-009	40-50	Wood Frag	11	0	0	0	0	0	0	0	0	0	13.5
23N 09E	030-005	30-40	Wood Frag	10	0	0	0	0	0	0	0	0	0	4.7
23N 09E	029-010	20-30	Wood Frag	7	0	0	0	0	0	0	0	0	0	2.6
23N 09E	033-007	60-70	Wood Frag	1	0	0	0	0	0	0	0	0	0	0.3
24N 09E	038-002	10-20	Cut Nails	3	0	2.47	0.83	0	0	0	0	0	0	8.4
24N 09E	039-001	20-30	Cut Nails	3	0	2.55	1.09	0	0	0	0	0	0	5.9
24N 09E	037-003	0-10	Cut Nails	2	0	2.13	2.07	0	0	0	0	0	0	6.8
24N 09E	039-002	20-30	Wire Nails	4	0	4.02	1.1	0	0	0	0	0	0	25.3
24N 09E	038-003	10-20	Wire Nails	10	0	3.46	0.56	0	0	0	0	0	0	36.8
24N 09E	040-001	30-40	Wire Nails	2	0	3.1	0.97	0	0	0	0	0	0	8.2
24N 09E	037-005	0-10	Wire Nails	9	0	3.6	1.22	0	0	0	0	0	0	33.1
24N 09E	037-004	0-10	Metal Frag	4	0	0	0	0	0	0	0	0	0	3.9
24N 09E	037-004	0-10	Metal Frag	4	0	0	0	0	0	0	0	0	0	20.0
24N 09E	039-003	20-30	Metal Frag	1	0	0	0	0	0	0	0	0	0	17.1
24N 09E	038-001	10-20	Metal Frag	1	0	0	0	0	0	0	0	0	0	1.0
24N 09E	038-007	10-20	Metal Frag	2	0	0	0	0	0	0	0	0	0	0.3
24N 09E	037-012	0-10	Asphalt Shingle	10	0	0	0	0	0	0	0	0	0	4.5
24N 09E	038-008	10-20	Asphalt Shingle	6	0	0	0	0	0	0	0	0	0	3.4
24N 09E	039-008	20-30	Asphalt Shingle	1	0	0	0	0	0	0	0	0	0	0.1
24N 09E	040-005	30-40	Clinker	0	0	0	0	0	0	0	0	0	0	25.8
24N 09E	038-004	10-20	Clinker	0	0	0	0	0	0	0	0	0	0	144.1
24N 09E	037-011	0-10	Clinker	0	0	0	0	0	0	0	0	0	0	140.5
24N 09E	029-009	20-30	Clinker	0	0	0	0	0	0	0	0	0	0	23.4
24N 09E	038-009	10-20	Wood Frag	8	0	0	0	0	0	0	0	0	0	4.4
24N 09E	040-004	30-40	Wood Frag	1	0	0	0	0	0	0	0	0	0	0.1

Table 2. 25DW55-B-14 Household Related Hardware and Other Artifacts (concluded).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
24N 09E	040-007	30-40	Wood Frag	10	0	0	0	0	0	0	0	0	0	1.5
24N 09E	039-006	20-30	Wood Frag	5	0	0	0	0	0	0	0	0	0	8.5
24N 09E	037-010	0-10	Wood Frag	9	0	0	0	0	0	0	0	0	0	4.9

Table 3. 25DW55-B-14 Glass.

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 0E	001-004	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	8.4
01N 0E	001-003	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.5
01N 01E	002-009	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.1
01N 01E	002-009	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.6
01N 01E	002-009	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.4
01N 01E	002-009	0-10	Window Glass	1	0	0	0	0	0	0	0.12	0	0	2.4
01N 01E	002-009	0-10	Window Glass	1	0	0	0	0	0	0	0.12	0	0	1.9
01N 01E	002-009	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	2.0
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.06	0	0	0.2
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.06	0	0	0.6
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.6
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.13	0	0	0.6
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	1.0
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.13	0	0	1.5
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.1
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	2.5
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	3.0
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.7
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	2.8
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
01N 01E	043-002	10-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.2
01N 01E	002-003	0-10	Bottle Glass	1	1.31	0	0	1.04	0	0	0.27	0	0	2.3
01N 01E	002-009	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.2
01N 01E	044-006	20-30	Bottle Glass	1	0	0	0	0	0	0	0	0	0	9.7
01N 01E	043-003	10-20	Bottle Glass	5	0	0	0	0	0	0	0	0	0	17.2
01N 01E	043-003	10-20	Bottle Glass	3	0	0	0	0	0	0	0	0	0	5.2
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3

Table 3. 25DW55-B-14 Glass (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.12	0	0	0.5
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.5
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.14	0	0	1.3
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.7
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	3.7
01N 02E	004-005	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.2
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.3
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.8
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.5
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.4
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
01N 02E	003-006	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
01N 02E	003-004	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.6
01N 02E	003-006	0-10	Bottle Glass	2	0	0	0	0	0	0	0	0	0	0.2
01N 02E	004-007	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.6
01N 02E	003-004	0-10	Bottle Glass	2	0	0	0	0	0	0	0	0	0	1.4
01N 02E	003-005	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.9
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.3
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	2.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.12	0	0	2.5

Table 3. 25DW55-B-14 Glass (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.7
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.1
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	3.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.9
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.1
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.2

Table 3. 25DW55-B-14 Glass (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	2.1
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	1.0	0	0	0.9
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.6
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.12	0	0	1.8
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	3.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.0
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.7
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.2
01N 14E	005-014	0-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.6
01N 14E	005-011	0-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.5
01N 14E	005-011	0-20	Bottle Glass	3	0	0	0	0	0	0	0	0	0	10.8
01N 14E	005-011	0-20	Bottle Glass	5	0	0	0	0	0	0	0	0	0	16.2
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	5.7
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	3.5
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.1	0	0	2.1
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.7
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
10N 01E	007-010	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.2

Table 3. 25DW55-B-14 Glass (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
10N 01E	008-006	10-16	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.4
10N 01E	008-006	10-16	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
10N 01E	008-006	10-16	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
10N 01E	007-011	0-10	Bottle Glass	3	0	0	0	0	0	0	0	0	0	6.3
10N 01E	007-009	0-10	Bottle Glass	7	0	0	0	0	0	0	0	0	0	4.9
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.6
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.1
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.6
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	1.0	0	0	1.1
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.12	0	0	1.8
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
10N 02E	009-001	0-10	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.9
10N 02E	010-004	10-20	Bottle Glass	4	0	0	0	0	0	0	0	0	0	11.7
10N 02E	009-002	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.4
10N 02E	009-002	0-10	Bottle Glass	4	0	0	0	0	0	0	0	0	0	2.0
10N 02E	009-001	0-10	Bottle Glass	3	0	0	0	0	0	0	0	0	0	1.0
11N 0E	012-001	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.5
11N 0E	012-001	10-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.8
11N 0E	012-001	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.3
11N 07E	011-007	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.1
11N 07E	011-007	0-10	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.6
11N 07E	011-007	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
11N 07E	011-007	0-10	Window Glass	1	0	0	0	0	0	0	0.12	0	0	1.2
11N 07E	011-007	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.2
11N 14E	005-010	0-20	Milk Glass	1	0.44	0	0	0.35	0	0	0.09	0	0	0.3
12N 11E	014-003	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.2
12N 11E	021-010	0-45	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.0
12N 11E	021-010	0-45	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.0
12N 11E	021-010	0-45	Window Glass	1	0	0	0	0	0	0	0.06	0	0	0.5

Table 3. 25DW55-B-14 Glass (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
12N 11E	021-010	0-45	Window Glass	1	0	0	0	0	0	0	1.0	0	0	2.7
12N 11E	021-010	0-45	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
12N 11E	021-010	0-45	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
12N 11E	013-006	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
12N 11E	013-008	0-10	Bottle Glass	3	0	0	0	0	0	0	0	0	0	0.7
12N 11E	021-009	0-45	Bottle Glass	4	0	0	0	0	0	0	0	0	0	4.5
12N 12E	015-003	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.5
12N 12E	015-006	0-10	Bottle Glass	3	0	0	0	0	0	0	0	0	0	1.3
12N 12E	016-005	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.2
12N 14E	018-005	10-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.1
12N 14E	018-005	10-20	Window Glass	1	0	0	0	0	0	0	0.06	0	0	0.1
12N 14E	018-005	10-20	Window Glass	1	0	0	0	0	0	0	0.06	0	0	0.3
12N 14E	018-005	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.6
12N 14E	018-005	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.8
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.1
12N 14E	018-005	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.9
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
12N 14E	017-003	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.0
12N 14E	017-003	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	3.2
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.5
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.05	0	0	0.2
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.09	0	0	2.7
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.12	0	0	3.9
12N 14E	019-006	20-30	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.0
12N 14E	018-005	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.4
12N 14E	018-004	10-20	Bottle Glass	4	0	0	0	0	0	0	0	0	0	4.8
12N 14E	018-004	10-20	Bottle Glass	12	0	0	0	0	0	0	0	0	0	11.6
12N 14E	017-004	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.5
23N 0E	023-003	10-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.8
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.7

Table 3. 25DW55-B-14 Glass (continued).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
23N 0E	023-003	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.3
23N 0E	023-003	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
23N 0E	023-003	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	2.5
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.3
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.5
23N 0E	023-003	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.4
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	1.6
23N 0E	022-005	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	0.8
23N 0E	023-003	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.1
23N 0E	023-004	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	1.3
23N 0E	022-004	0-10	Bottle Glass	5	0	0	0	0	0	0	0	0	0	7.5
23N 02E	024-001	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.5
23N 09E	033-008	60-70	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.5
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.8
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.12	0	0	0.9
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.1	0	0	1.3
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.2
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.1
23N 09E	033-008	60-70	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.7
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.5
23N 09E	028-015	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.4
23N 09E	028-015	10-20	Window Glass	1	0	0	0	0	0	0	0.14	0	0	2.3
23N 09E	028-015	10-20	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.3
23N 09E	028-015	10-20	Window Glass	1	0	0	0	0	0	0	0.1	0	0	0.6
23N 09E	028-015	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.3
23N 09E	029-012	20-30	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.8
23N 09E	028-015	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.9
23N 09E	032-008	50-60	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.4

Table 3. 25DW55-B-14 Glass (concluded).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
23N 09E	027-007	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.5
23N 09E	033-008	60-70	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.8
23N 09E	032-008	50-60	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.2
23N 09E	032-008	50-60	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.1
23N 09E	031-003	40-50	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.4
23N 09E	031-003	40-50	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.4
23N 09E	031-003	40-50	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.2
23N 09E	032-008	50-60	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
23N 09E	031-003	40-50	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.1
23N 09E	033-008	60-70	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.5
23N 09E	030-009	30-40	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.3
23N 09E	030-009	30-40	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.5
23N 09E	033-008	60-70	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.9
23N 09E	032-008	50-60	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
23N 09E	030-007	30-40	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.4
23N 09E	030-007	30-40	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.8
23N 09E	033-008	60-70	Bottle Glass	2	0	0	0	0	0	0	0	0	0	0.3
23N 09E	031-004	40-50	Bottle Glass	1	0	0	0	0	0	0	0	0	0	1.3
23N 09E	030-008	30-40	Bottle Glass	1	0	0	0	0	0	0	0	0	0	3.5
23N 09E	032-007	50-60	Bottle Glass	2	0	0	0	0	0	0	0	0	0	1.0
23N 09E	027-006	0-10	Bottle Glass	8	0	0	0	0	0	0	0	0	0	11.1
23N 09E	029-013	20-30	Bottle Glass	4	0	0	0	0	0	0	0	0	0	14.2
23N 09E	027-006	0-10	Bottle Glass	1	0	0	0	0	0	0	0	0	0	3.0
23N 09E	028-014	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.8
23N 09E	028-014	10-20	Bottle Glass	5	0	0	0	0	0	0	0	0	0	4.5
23N 09E	033-004	60-70	Bottle Glass	11	0	0	0	0	0	0	0	0	0	10.8
23N 09E	032-008	50-60	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.2
23N 09E	032-008	50-60	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.3
24N 09E	038-012	10-20	Window Glass	1	0	0	0	0	0	0	0.11	0	0	1.4
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.3
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.3

Table 3. 25DW55-B-14 Glass (concluded).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
24N 09E	038-012	10-20	Window Glass	1	0	0	0	0	0	0	0.07	0	0	0.2
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.6
24N 09E	039-004	20-30	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.5
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.4
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.6
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.09	0	0	0.8
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.11	0	0	2.1
24N 09E	038-012	10-20	Window Glass	1	0	0	0	0	0	0	0.09	0	0	1.6
24N 09E	037-006	0-10	Window Glass	1	0	0	0	0	0	0	0.08	0	0	0.7
24N 09E	039-005	20-30	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.4
24N 09E	038-012	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	0.2
24N 09E	037-002	0-10	Bottle Glass	1	1.25	0	0	1.02	0	0	0.31	0	0	2.3
24N 09E	038-013	10-20	Bottle Glass	1	0	0	0	0	0	0	0	0	0	1.0
24N 09E	038-013	10-20	Bottle Glass	2	0	0	0	0	0	0	0	0	0	0.9

Table 4. 25DW55-B-14 Munitions.

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 14E	005-008	0-20	Shot	1	0	0	0	0	0	0	0.27	0	0	2.0
01N 14E	005-009	0-20	Bullet	1	0.6	0	0	0	0	0	0.38	0	0	9.2
01N 14E	005-007	0-20	Cartridge	1	0.62	0	0	0	0	0	0.22	0	0	0.6
01N 14E	005-007	0-20	Cartridge	1	0.81	0	0	0	0	0	0.22	0	0	0.8
01N 14E	005-007	0-20	Cartridge	1	0.27	0	0	0	0	0	0.26	0	0	0.4
01N 14E	005-007	0-20	Cartridge	1	0.28	0	0	0	0	0	0.26	0	0	0.3
11N 07E	011-009	0-10	Bullet	1	1.2	0	0	0	0	0	0.39	0	0	8.2
12N 11E	013-005	0-10	Bullet	2	0	1.14	0.47	0	0.84	0.36	0	0.1	0.05	6.5
12N 11E	013-005	0-10	Bullet	2	1.13	0	0	0	0	0	0.08	0	0	6.6
12N 14E	019-005	20-30	Bullet	1	0.96	0	0	0	0	0	0.14	0	0	8.5
23N 09E	032-005	50-60	Cartridge	1	1.17	0	0	0	0	0	0.24	0	0	4.1
23N 09E	030-003	30-40	Cartridge	1	0.43	0	0	0	0	0	0.24	0	0	0.7
24N 09E	037-001	0-10	Cartridge	1	1.11	0	0	0	0	0	0.48	0	0	5.2

Table 5. 25DW55-B-14 Clothes Fasteners.

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 01E	043-012	10-20	Safety Pin	1	1.5	0	0	0.34	0	0	0.1	0	0	0.5
01N 14E	005-001	0-20	Buckle	2	0	1.14	1.11	0	0.87	0.53	0	0.1	0.07	2.8
10N 01E	007-014	0-10	Shell Button	1	0.41	0	0	0.41	0	0	0.07	0	0	0.3
11N 0E	012-005	10-20	Shell Button	1	0.34	0	0	0.3	0	0	0.04	0	0	0.1
12N 14E	019-014	20-30	Metal Button	1	0.69	0	0	0.69	0	0	0.24	0	0	1.8
23N 09E	028-020	10-20	Ceramic Button	1	0.39	0	0	0.26	0	0	0.11	0	0	0.2

Table 6. 25DW55-B-14 Miscellaneous Artifacts and Other Items.

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
01N 01E	043-010	10-20	Plastic	1	1.38	0	0	0.42	0	0	1.0	0	0	0.1
01N 01E	043-001	10-20	Paint Can Lid	1	6.12	0	0	6.09	0	0	0.38	0	0	101.4
01N 02E	003-008	0-10	Kool Aid Cap	1	1.33	0	0	1.35	0	0	0.35	0	0	1.2
01N 02E	003-009	0-10	Plastic	1	0.77	0	0	0.66	0	0	0.01	0	0	0.1
01N 14E	005-013	0-20	Stone	1	0	0	0	0	0	0	0	0	0	0.6
10N 01E	008-008	10-16	Plastic	1	0.86	0	0	0.64	0	0	0.02	0	0	0.1
10N 01E	007-012	0-10	Plastic	1	0.67	0	0	0.34	0	0	0.14	0	0	0.4
10N 01E	007-013	0-10	Plastic	2	0	0.8	0.51	0	0.44	0.42	0	0.09	0.03	0.1
10N 02E	010-006	10-20	Plastic	1	0.89	0	0	0.48	0	0	0.04	0	0	0.1
10N 02E	010-005	10-20	Rubber	1	0.56	0	0	0.42	0	0	0.09	0	0	0.3
11N 0E	012-003	10-20	Plastic	1	1.25	0	0	1.25	0	0	0.52	0	0	2.0
11N 0E	012-004	10-20	Plastic	1	0.73	0	0	0.65	0	0	0.33	0	0	0.8
11N 0E	012-002	10-20	Plastic	6	0	0.83	0.48	0	0.67	0.27	0	0.05	0.03	0.3
12N 11E	013-013	0-10	Rubber Hose	2	0	1.11	0.62	0	0.44	0.33	0	0.35	0.26	1.1
12N 11E	014-009	10-20	Rubber Hose	1	2.02	0	0	0.48	0	0	0.2	0	0	1.5
12N 11E	013-009	0-10	Plastic	1	0.36	0	0	0.17	0	0	0.05	0	0	0.1
12N 14E	017-008	0-10	Paper	1	1.07	0	0	0.57	0	0	0.04	0	0	0.1
12N 14E	018-006	10-20	Plastic	1	0.46	0	0	0.32	0	0	0.07	0	0	0.2
12N 14E	017-002	0-10	Pencil Eraser	1	0.74	0	0	0.31	0	0	0.3	0	0	0.9
12N 14E	018-011	10-20	Rubber	1	1.02	0	0	0.98	0	0	0.25	0	0	3.6
23N 09E	028-010	10-20	Twine	2	0	0	0	0	0	0	0	0	0	1.4
23N 09E	031-002	40-50	Plastic	3	0	2.41	1.02	0	1.0	0.98	0	0.35	0.04	0.5
23N 09E	029-017	20-30	Plastic	1	0.3	0	0	0.15	0	0	0.01	0	0	0.1
23N 09E	030-012	30-40	Plastic	2	0	3.47	3.19	0	2.34	1.07	0	0.17	0.15	2.1
23N 09E	028-017	10-20	Plastic	2	0	0.8	0.72	0	0.75	0.61	0	0.11	0.09	0.1
23N 09E	033-010	60-70	Stone	1	0	0	0	0	0	0	0	0	0	1.2
23N 09E	028-007	10-20	Painted Stone	1	0.72	0	0	0.48	0	0	0.24	0	0	1.9
23N 09E	028-013	10-20	Stone	1	0	0	0	0	0	0	0	0	0	0.5
23N 09E	031-005	40-50	Stone	1	0	0	0	0	0	0	0	0	0	3.5
23N 09E	032-006	50-60	Stone	1	0	0	0	0	0	0	0	0	0	2.1
23N 09E	031-001	40-50	Mica	1	0.26	0	0	0.24	0	0	0.01	0	0	0.1

Table 6. 25DW55-B-14 Miscellaneous Artifacts and Other Items (concluded).

Square	Cat #	Depth	Description	#	Length	Lmax	Lmin	Width	Wmax	Wmin	Thick	Tmax	Tmin	Weight
23N 09E	028-016	10-20	Asbestos	1	0.45	0	0	0.39	0	0	0.08	0	0	0.1
23N 09E	029-002	20-30	Clothes Pin Spr	1	1.07	0	0	0.54	0	0	0.3	0	0	3.2
23N 09E	027-002	0-10	Clothes Pin Spr	1	1.03	0	0	0.7	0	0	0.3	0	0	3.3
23N 09E	031-013	40-50	Peach Pit	1	0	0	0	0	0	0	0	0	0	0.8
23N 09E	031-010	40-50	Cast Bull Dog	1	1.1	0	0	1.03	0	0	0.99	0	0	21.0
23N 09E	032-004	50-60	Picket Pin	1	17.0	0	0	2.31	0	0	0.54	0	0	442.7
24N 09E	040-006	30-40	Peach Pit	5	0	0	0	0	0	0	0	0	0	3.4
24N 09E	037-008	0-10	Stone	1	0	0	0	0	0	0	0	0	0	2.1
24N 09E	038-005	10-20	Stone	1	0	0	0	0	0	0	0	0	0	0.8
24N 09E	038-006	10-20	Stone	1	0	0	0	0	0	0	0	0	0	5.0

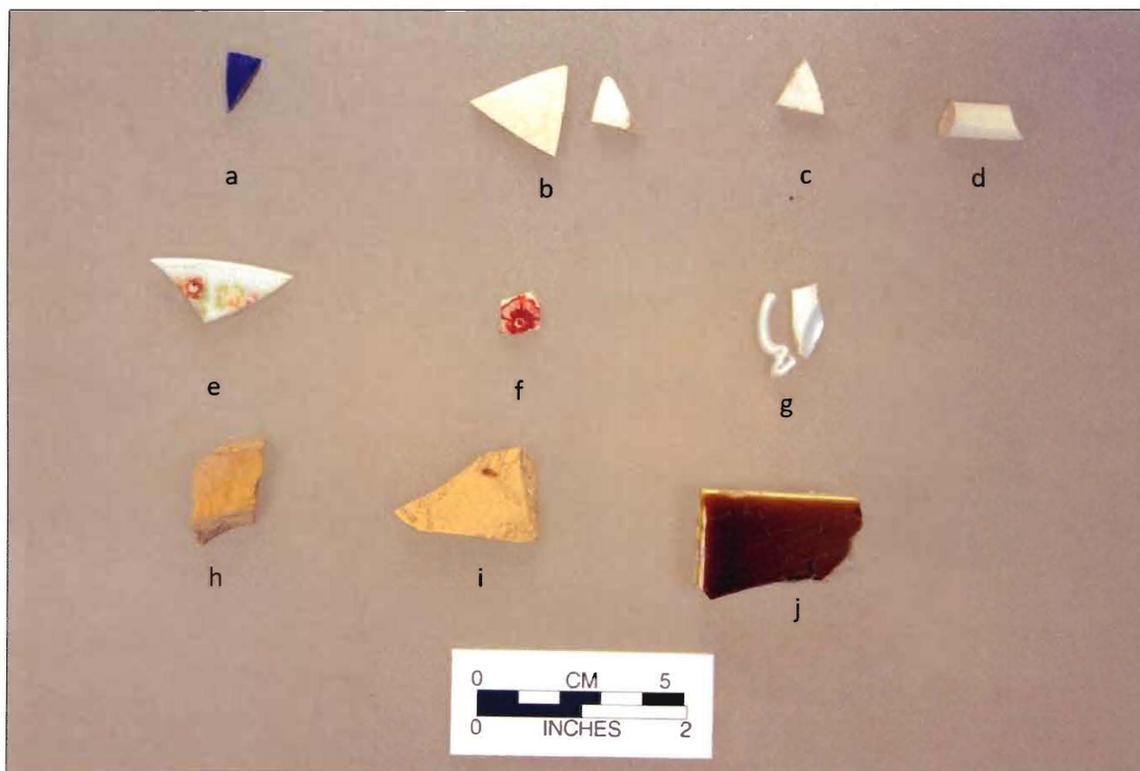


Plate 30. Ceramics. a: pearlware; b: ironstone; c: undecorated whiteware; d: undecorated whiteware; e: decorated whiteware; f: decorated whiteware; g: porcelain; h: glazed earthenware; i: glazed earthenware; j: tile fragment.

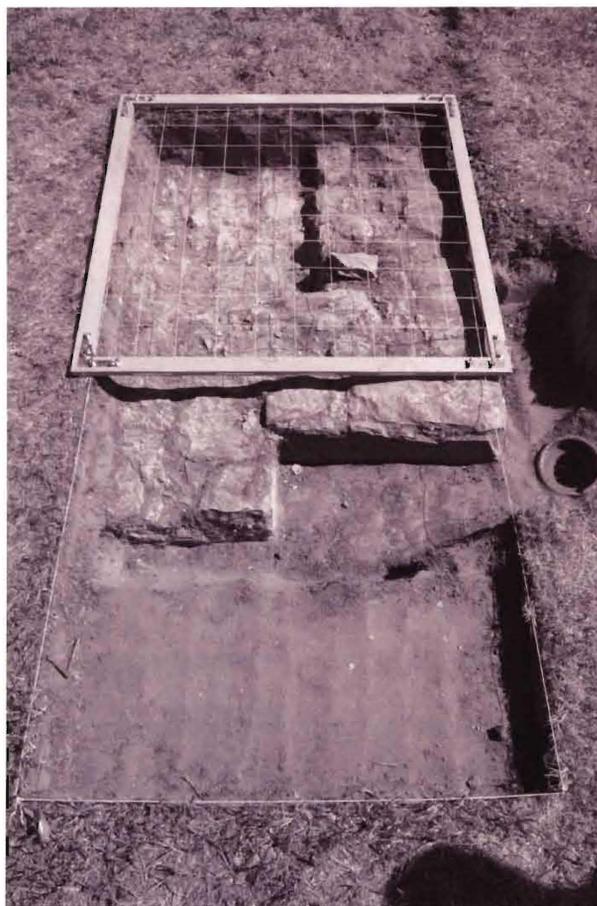


Plate 31. Area 1 drain pipe in situ.



Plate 32. Ceramics. Clay drain pipe cross-section



Plate 33. Household Related Hardware. a: staple; b: wood screw; c: wood screw; d: hexagonal nut; e: square nut; f: spring fragment; g: washer



Plate 34. Door, Window, and Other Hardware. a: window shade bracket; b: bolt latch catch; c: gate latch; d: window weight fragment.



Plate 35. Glass. a: bottle base; b: bottle base; c: bottle neck and rim; d: bottle lip fragment; e: bottle lip fragment; f: crimped bottle cap.

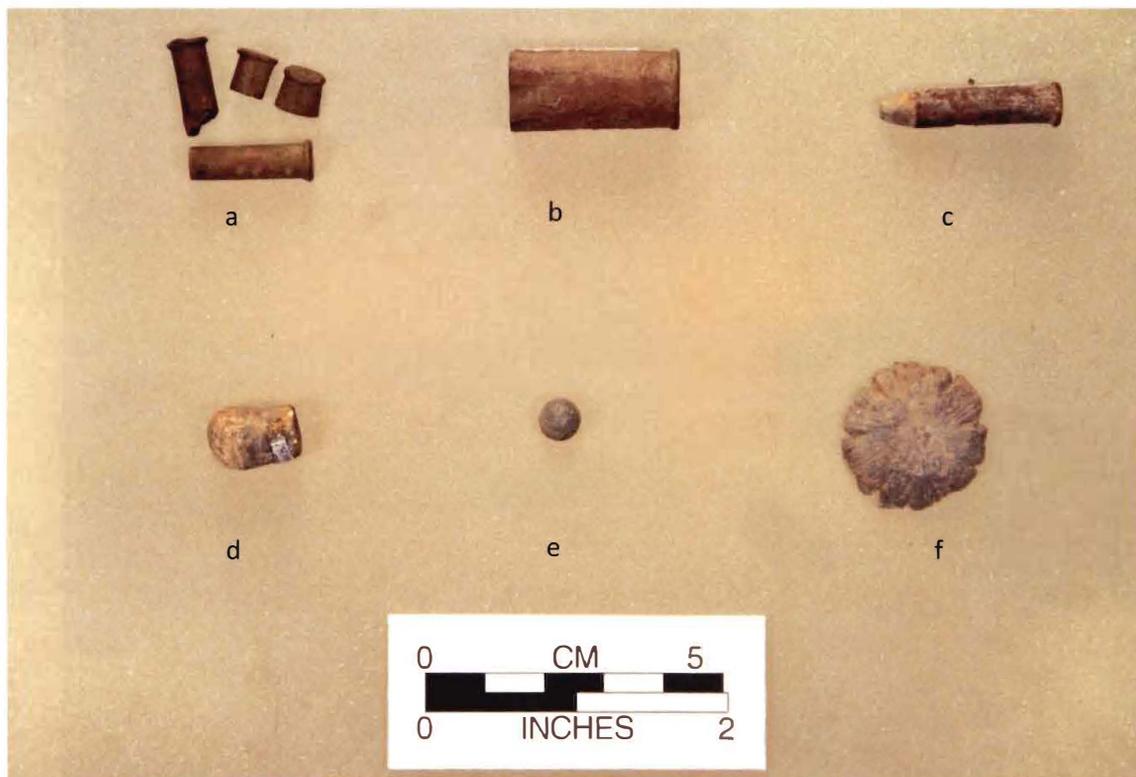


Plate 36. Munititions. a: 22 caliber cartridges; b: 45 caliber center fire case; c: 22 caliber extra long cartridge; d: 38 caliber lead bullet; e: lead shot pellet #2; f: smashed bullet fragment.

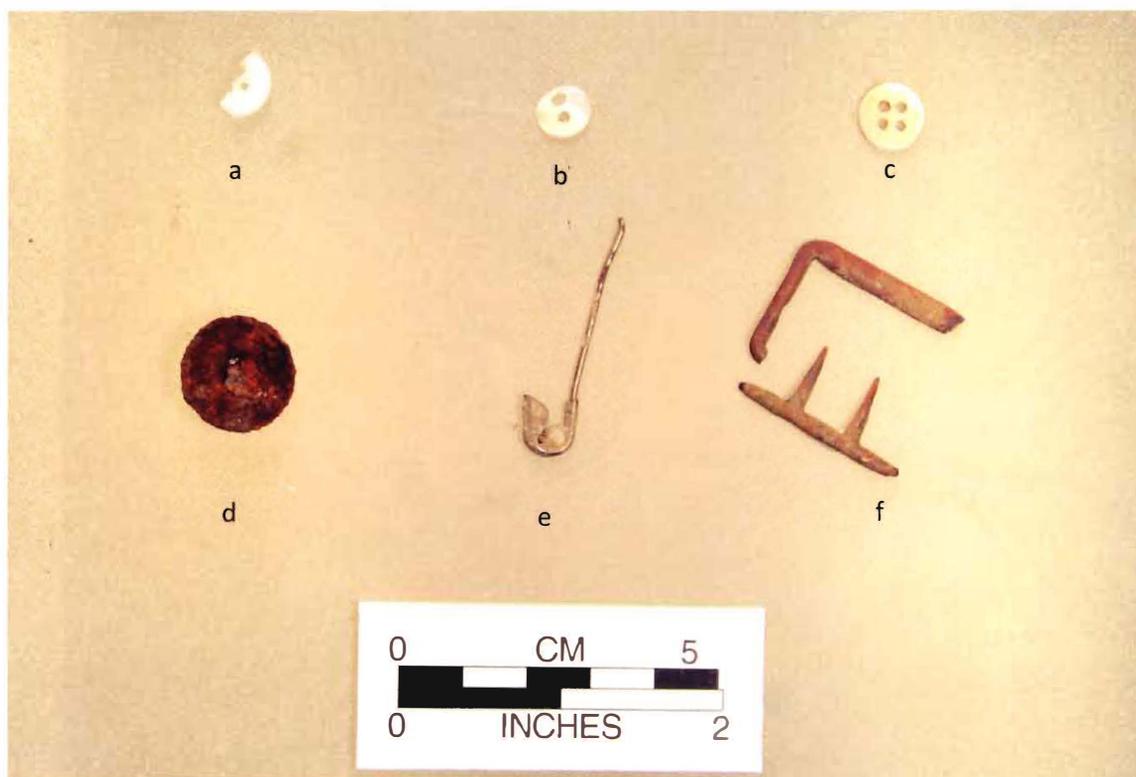


Plate 37. Clothes Fasteners. a: ceramic button; b: shell button; c: shell button; d: metal button; e: safety pin; f: suspender buckle fragments.

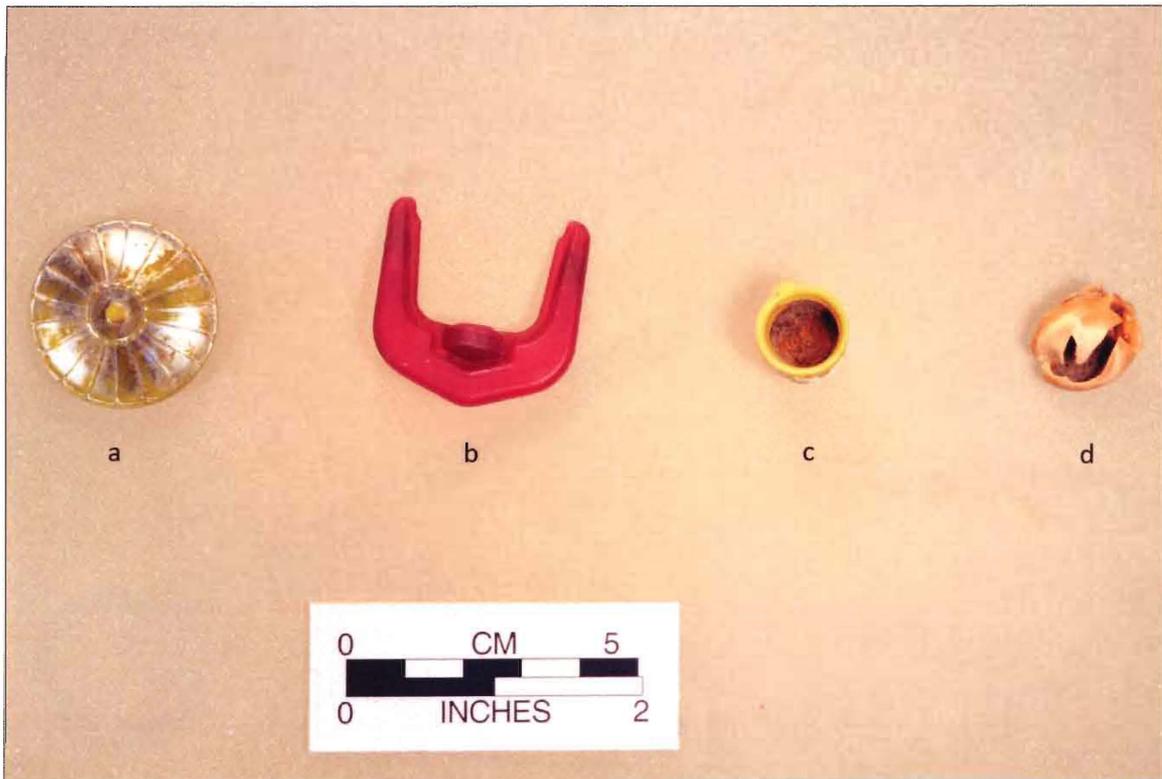


Plate 38. Miscellaneous Artifacts. a: circular decorative plastic cap; b: Kool-Aid-Burst plastic bottle cap; c: dome-shaped plastic cap; d: unidentified melted plastic cap.



Plate 39. Miscellaneous Artifacts. Gallon paint can lid.



Plate 40. Miscellaneous Artifacts. Cavalry picket pin.



Plate 41. Miscellaneous Artifacts. Cast Pewter or lead bulldog head.

CONCLUSIONS

The primary objective of the 2012 excavation was achieved in locating the former foundation remains and footprint of the original Officer's Quarters (B-14). It became clear from the excavation units that the original building was a basic "T" layout similar to the archive plans for Officers' Quarters B-2 (Figure 7, 8). A wide front was pinched inward (approximately 9 ft, see Figure 6) near the center of the side walls and then the main structure was extended back in a narrower structure. Side porches were present on the two narrow sides (Plate 1). Drain pipes in squares 1N0E, 1N14E, 23N2E, and 24N12E confirm the original structure corners. The pipes would have been connected to down spouts from the roof and eventually led underground to an outlet.

It also became clear that sometime, probably prior to or during World War II, the building was remodeled. The side porches were removed and foundation extensions were constructed to the back to co-inside with the front side walls. New outside walls were constructed up to and including a second floor which now enclosed additional inside space for quarters (Plate 2). The new foundation corners were found in squares 23N0E, 23N14E, and 23N15E. It has not been determined where the foundation rock was obtained. There are no clear quarry areas located on the Fort Reservation and it appears that the material was brought in from an outside source.

Interior support structures were confirmed in the center of the building in a number of squares (e.g. 11N11E, 12N11E, 11N12E, 12N12E, and 11N7E). Some of the rubble may have also related to chimney supports. Additional evidence for internal support walls may be present in the front and rear of the building, but time constraints prevented further exploration.

The basement area noted in plans was investigated by several test squares to confirm the feature's existence and determine if significant artifactual material was present that would add to the interpretation of the building. The basement was located, but unfortunately it was filled with rubble and large amounts of furnace coal, slag, and clinker (Figure 35). No further excavation was therefore conducted into the basement.

Because the structure was built at the turn of the twentieth century and subject to intense salvage when it was razed, the recovered artifact inventory is limited in research potential. Only a few artifact classes yielded information useful for interpretation and display. Square and wire cut nails were both present as well as window glass of varied thicknesses. These items undoubtedly represent the different periods of construction and reconstruction. Army related artifacts were few but include a cavalry picket pin and most recovered munitions (excluding the 22 caliber cartridges). The faunal sample indicates families utilized domestic meat from cattle, pigs, and chickens as well as wild game (ducks and rabbits). Among the fragments of tableware, the presence of pearlware (1820s-1840s) suggests an heirloom kept by occupants of B-14. One of the more interesting recovered items is a cast bulldog head finial made of lead or pewter. This item is designed to fit on a circular rod or holder. Its original function could not be determined.

This report has been assembled to provide, as accurately as possible, a depiction of the B-14 Officers' Quarters as it looked during its period of occupancy. The 2012 archeological investigation was designed to assist the Nebraska Game and Parks Commission in their eventual reconstruction of the building. B-14 represents a type of structure (officer housing) that for over 60 years was part of the architectural landscape of Fort Robinson. The archival and archeological information provided by this report should make possible the accurate reconstruction and its interpretation to park visitors.

Appendix A: 25DW55-B14 Unmodified Fauna

This section provides a brief description of the unmodified faunal remains recovered from the 2012 archeological investigations at the B-14 Officers' Quarters at Fort Robinson, Nebraska.

Laboratory Procedures

Following excavation, bone debris from the site was washed, catalogued and separated from other material classes by Nebraska State Historical Society laboratory staff. Catalog numbers were affixed to each specimen larger than ¼ inch. Bone fragments smaller than ¼ inch were lotted for sorting and identification.

Specimens from each provenience unit were segregated into identifiable and unidentifiable lots. A specimen was considered "identifiable" if the element, side, and portion could be determined and assigned to a taxonomic grouping at the Family level or below. Items separated as "unidentifiable" were grouped into taxonomic class, such as mammal. Specimen identifications were made through comparison with modern collections housed at the NSHS Fort Robinson Museum and the University of Nebraska State Museum. Variables recorded for each item include: catalog number, provenience, taxon, element, side, portion, weight, and comment. Comment entries listed natural or cultural modifications, such as burning, cut marks, sawed, and carnivore gnawing. Immature specimens were also noted. These data were entered into a computerized database (Microsoft Access 2003).

The identified portion was quantified by using number of identified specimens (NISP) and minimum number of individuals (MNI). MNI values were tabulated using the standard method of determining the element, side, and portion that occurs in the greatest frequency (Grayson 1984). Relative age was also taken into consideration. NISP and MNI values were calculated for the sample as a whole and NISP counts re-tabulated by test unit. Unmodified faunal remains were recovered from ten of the 28 test excavation units. No modified bone was recovered during the 2012 excavation.

In addition to narrative and tabular descriptive treatment of the remains, questions concerning sample origins, diet with respect to wild versus domestic meat, butchering and cuts of meat represented, and comparative research potential will be briefly addressed.

Results

The B-14 faunal sample is composed of 233 fragments weighing 464.7 grams. Fifty proved identifiable using criteria noted above. By weight, the identified bone sample constitutes 71% of the entire collection and includes eight taxonomic groups representing a minimum number of this many individuals. The specimens are generally well preserved with a fair amount of carnivore gnawing and rootlet etching. A summary of all vertebrate remains sorted by provenience and a sorting of the entire sample by taxonomic category are on file at the Fort Robinson Museum and are available upon request.

The unidentifiable portion of the collection, 183 (135.5 g), is summarized by test unit in Table 7. The majority (91%) of unidentifiable remains was recovered from test units associated with Area 8 or the basement/rear of the building. Table 8 provides summary information of modifications observed on the unidentifiable portion. Burning (NISP=2) and sawing (NISP=9) and carnivore gnawing (NISP=3) were observed for mammal remains. Four bird specimens were immature with unfused proximal and distal epiphyses.

Identified Vertebrate Remains and Their Distribution

The fifty identified bones are assigned to eight taxonomic categories representing a total of twelve individuals (Table 9). Table 10 summarizes the identified remains by test unit. The majority of identifiable remains (92%) was recovered from test units associated with Area 8 or the basement/rear of the building. Table 11 provides information on modifications observed for the identified bone sample.

Bird

A total of 20 bird elements were identified to three taxonomic categories. By weight, the avian sample constitutes about 8.5% of the combined identified sample. Two elements are identified as duck sp. and Ruddy Duck (*Oxyura jamaicensis*). Modern distribution for Ruddy Duck includes man-made lagoons, marshland, and shallow lakes of western Nebraska (Jennings et al. 2005: 64). Eighteen elements are identified as domestic chicken and represent 3 individuals. Root etching and carnivore gnawing were observed on some of the elements.

Small and Medium-Sized Mammal

Three small to medium sized mammal taxa are included in the sample and represent about 3.6% of the identified bone sample by weight. A single pocket gopher mandible was recovered. This species is ubiquitous across the state. Eight elements, representing 2 individuals, are *Sylvilagus* sp. or cottontail rabbit. Both eastern cottontail (*Sylvilagus floridanus*) and desert cottontail (*S. audubonii*) inhabit the Panhandle region (Jones et al. 1983: 101-107). Root etching and carnivore gnawing were observed for a few elements. One element was noted as immature due to an unfused epiphysis. Three elements are *Lepus* sp. or jack rabbit. Both black-tail (*Lepus californicus*) and white-tail (*Lepus townsendii*) jack rabbit inhabit the Panhandle (Jones et al. 1983: 112-116).

Large Mammal

About 87.4% of the identified sample by weight is large mammal remains. The sample consists of 18 elements representing an MNI of three individuals assigned to two species. Eleven elements (121.3 g) are identified as domestic pig (*Sus scrofa*) and represent an MNI of two individuals. Modifications recorded for pig remains include: cut marks, sawing, root etching and carnivore gnawing. Four elements are from an immature individual. Published epiphyseal fusion rates indicate they are from an individual younger than 3 ½ years old (Silver 1969: 286).

Seven elements (166.3 g) are identified as *Bos Taurus* (cattle) and represent an MNI of one individual. Modifications include sawing. Based upon known epiphyseal fusion rates, the single immature element is from an individual under the age of 3 ½ years (Silver 1969: 286).

Discussion

The vertebrate sample is comprised primarily of remains present as a direct result of human subsistence activity. Large domestic mammals (pigs and cattle) make up 36% of the sample by number and 87% by weight. Domestic chicken was also a common food item. Wild species that may have supplemented the officers' diet included ducks, cottontail, and jack rabbits. A single pocket gopher element was likely intrusive to deposits. The majority of the faunal sample is closely associated with the late nineteenth and early twentieth century military occupation of the building.

The officers and their families likely procured domestic meat locally, which was prepared in their own homes. Chickens were in all likelihood raised on site. Wild rabbit and duck would have been hunted on or near the Fort grounds.

Pig remains displayed both cut marks and evidence for sawing (Table 12). Saw marks were also noted for cattle remains (Table 13). Unfortunately, the sample size is too small to discuss carcass reduction patterns to any length. Meat cut categories represented by the pig and cattle remains can be derived from a variety of U.S. Department of Agriculture manuals and historic-era zooarcheological research project sources (Eakins 1924; USDA 1977, 1983; Levie 1970). Lumbar and thoracic vertebrae, medial ribs, pelvis, scapulae, and upper limb bones represent higher grades. Lower value cuts are reflected by lower leg, neck, and cranial elements. Since not all portions have an equal number of bones in the mammalian skeleton, a quantitative procedure is used to normalize values. The expected frequency (fe) of various cuts was compared with the observed frequency (fo) of these elements. The expected frequency is the number of elements that would be present if all bones from all individuals had been recovered. Sample frequencies are segregated into major skeletal portions for pig and cattle elements and are displayed in Table 14. The results broadly indicate higher grade cuts of the upper hind limb and axial portions are better represented for both cattle and pig remains.

The B-14 identified faunal sample was cross-tabulated against four other Central Plains military and civilian Euroamerican assemblages (Figure 36) including: Fort Atkinson, an eastern Nebraska military post (1820-1827) (Mundell 1979); 25SY45, a mid-nineteenth century farmstead in southeastern Nebraska (Bleed et al. 2008); Fort Ellsworth, a late 1860s military site in central Kansas (Bozell 1997); and the Fort Robinson 1887 Adobe Barracks (Koch 2001).

Comparison shows the B-14 sample more closely resembles the mid to late nineteenth century assemblages from Fort Ellsworth and Fort Robinson B-56 to the extent that domestic food animal (cattle/pig/chicken) remains contribute a major portion of the occupants' diet. Although somewhat biased by sample size, the B-14 faunal sample NISP frequencies again help to illustrate that over time, both military and civilian sites shifted emphasis from wild fauna resources to subsistence primarily based upon domestic animal products.

Table 7. Distribution of Unidentifiable Vertebrate Remains from 25DW55-B-14.

Test Unit	Mammal		Bird		Total	
	NISP	Grams	NISP	Grams	NISP	Grams
01N 01E	1	0.6	0	0	1	0.6
10N 01E	2	1.6	0	0	1	1.6
11N 07E	1	0.1	0	0	1	0.1
12N 11E	3	3.2	0	0	3	3.2
12N 12E	1	0.2	0	0	1	0.2
12N 14E	1	0.1	0	0	1	0.1
23N 0E	7	12.2	0	0	7	12.2
23N 09E	87	48.8	14	4.6	101	53.4
24N 09E	52	50.7	14	13.4	66	64.1
TOTAL	155	117.5	28	18.0	183	135.5

Table 8. Modifications observed on Unidentifiable Vertebrate Remains from 25DW55-B-14.

Taxon	Burning	Cut Marks	Sawed	Root Etched	Carnivore Gnawed	Immature
Mammal	2	0	9	0	3	0
Bird	0	0	0	0	0	4
Total	2	0	9	0	3	4

Table 9. Summary of Identified Vertebrate Remains from 25DW55-B-14.

TAXA	NISP	MNI
Duck sp. (duck)	1	1
<i>Oxyura jamaicensis</i> (ruddy duck)	1	1
<i>Gallus gallus</i> (chicken)	18	3
<i>Geomys bursarius</i> (Plains pocket gopher)	1	1
<i>Sylvilagus</i> sp. (eastern cottontail or desert cottontail)	8	2
<i>Lepus</i> sp. (white-tailed jack rabbit or black-tailed jack rabbit)	3	1
<i>Sus scrofa</i> (domestic pig)	11	2
<i>Bos taurus</i> (cattle)	7	1

Table 10. Distribution of Identifiable Faunal Remains from 25DW55-B-14.

Test Unit	Duck		Ruddy Duck		Chicken		Gopher		Cottontail		Jack Rabbit		Pig		Cattle		TOTAL	
	NISP	Grams	NISP	Grams	NISP	Grams	NISP	Grams	NISP	Grams	NISP	Grams	NISP	Grams	NISP	Grams	NISP	Grams
10N 02E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	19.7	1	19.7
12N 11E	0	0	0	0	0	0	1	0.6	0	0	0	0	0	0	1	27.2	2	27.8
12N 14E	0	0	0	0	0	0	0	0	1	0.3	0	0	0	0	0	0	1	0.3
23N 09E	0	0	1	1.3	6	11.9	0	0	4	2.7	0	0	9	105.6	4	85.5	24	208.5
24N 09E	1	0.7	0	0	12	14.3	0	0	3	3.3	3	5.0	2	15.7	1	33.9	22	72.9
TOTAL	1	0.7	1	1.3	18	26.2	1	0.6	8	6.3	3	5.0	11	121.3	7	166.3	50	329.2

Table 11. Modifications Observed on Identified Vertebrate Remains from 25DW55-B-14.

TAXON	Burning	Cut Marks	Sawed	Root Etched	Carnivore Gnawing	Immature
chicken	0	0	0	7	3	0
cottontail	0	0	0	1	1	1
pig	0	1	4	1	1	4
cattle	0	0	4	0	0	1

Table 12. Inventory of Butchering Marks on 25DW55-B-14 Pig Bones.

Element	Knife	Single Saw	Double Saw
rib	0	1	0
thoracic vertebra	0	1	0
ischium	0	1	0
femur	1	0	1
Total	1	3	1

Table 13. Inventory of Butchering Marks on 25DW55-B-14 Cattle Bones.

Element	Knife	Single Saw	Double Saw
rib	0	1	1
lumbar vertebra	0	1	0
femur	0	0	1
Total	0	2	2

Table 14. Maximum Observed Frequency/Expected Frequency by Major Skeletal Portion for 25DW55-B-14 Cattle and Pig Remains.

	Crania	Axial	Upper Fore	Lower Fore	Upper Hind	Lower Hind	Feet
Cattle	0	4.9	0	0	25.0	0	1.9
Pig	0	13.2	0	0	50.0	8.3	1.0

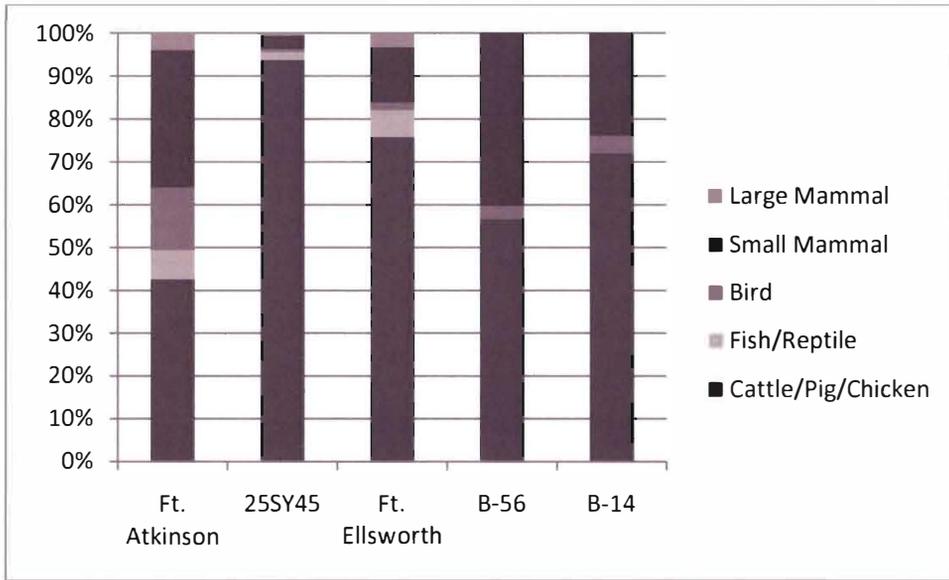


Figure 36. Comparison of major taxonomic classes from 25DW55-B-14 and select other sites.

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