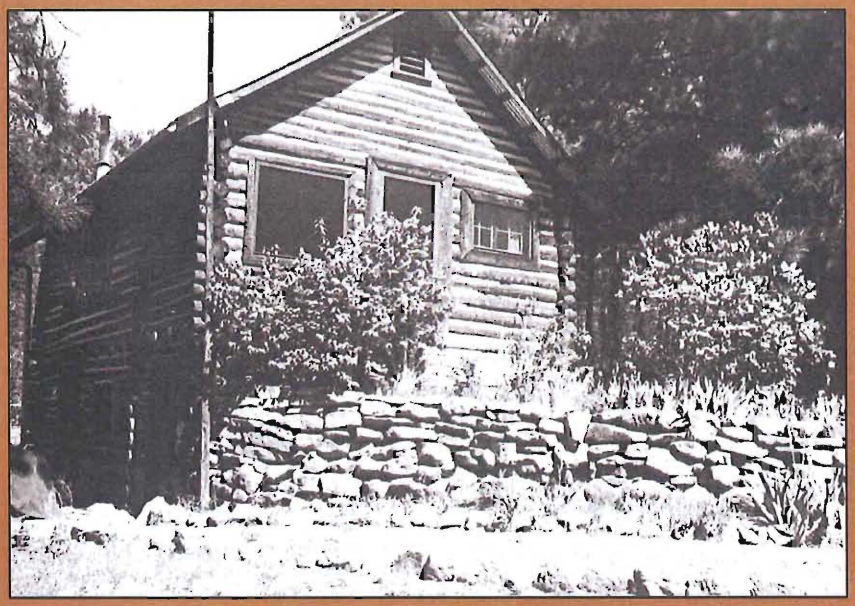
LA-UR-08-05335

From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)

Volume 1





ENV-EAQ Cultural Resources
Environmental Protection Division
LOS ALAMOS NATIONAL LABORATORY

LA-UR-08-05335

From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)

Volume 1

Historic Building Survey Report No. 256

Los Alamos National Laboratory

August 14, 2008
Survey No. 1008

Prepared for the U.S. Department of Energy
National Nuclear Security Administration
Los Alamos Site Office

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Indexed Archival Photographs of MOA Properties (8-21, 8-24, and 8-28) and Additional Views

EXECUTIVE SUMMARY

In compliance with Section 106 and Section 110 of the National Historic Preservation Act, LANL's cultural resources staff have completed the evaluation of all properties at Technical Area (TA) 8 for inclusion on the National Register of Historic Places (Register). Of the eighteen original potential historic properties located at TA-8, eleven properties have been evaluated in previous reports (Garcia 1999, Garcia *et al.* 2005, McGehee *et al.* 2002, McGehee *et al.* 2003, and McGehee *et al.* 2006b). Of the seven properties not previously reviewed, TA-8-20, -22, -23, 26, and -32 are Register-eligible and TA-8-30 and -65 are not. Descriptions of the recently evaluated properties are contained in Volume 1. Summary information related to previously reviewed properties located at TA-8 is included in Table 3 of Volume 1. LANL historic building inventory forms for all properties at TA-8 are also included in Volume 1, Appendix A.

In addition to Register evaluations, historic properties at TA-8 were also assessed for their preservation and public interpretation potential, and the most historically significant properties were identified for permanent retention. Three properties located at TA-8 are candidates for permanent retention: buildings TA-8-1, -2, and -3. These properties, known collectively as the Gun Site, are associated with the development of the "Little Boy" bomb and represent an important aspect of Los Alamos's contribution to the history of World War II.

Some of the properties located at TA-8 have been identified as excess properties as part of LANL's routine phasing out of aging properties and have been scheduled for decontamination and decommissioning (D&D). Four properties located at TA-8 were included on the FY 2006 list for D&D: TA-8-24, -25, -28, and -29. Also, four properties are included on the FY 2008 D&D list: TA-8-26, -30, -32, and -65. In addition to assessing the significance of historic properties at TA-8, this report fulfills the standard documentation and reporting requirements for resolving adverse effects to the two Register-eligible buildings decommissioned during 2006 (TA-8-24 and TA-8-28) (SHPO 2006). This report also fulfills documentation requirements related to roof remodeling activities at 8-21, another Register-eligible building located at TA-8 (SHPO 2005).

Standard documentation measures are outlined in Section 9 of the LANL Cultural Resources Management Plan (CRMP) and include a history and description of the technical area along with descriptions of each building (LANL 2006). Appendices to Volume 1 include historic building inventory forms for all properties at TA-8 (Appendix A), maps showing TA-8's construction history and the location of eligible and non-eligible properties (Appendix B), interview information (Appendix C), and a list of drawings on file at LANL for buildings 8-21, 8-24 and 8-28 (Appendix D). Additionally, a set of indexed archival photographs of 8-21, 8-24, 8-28, and additional views is included in Volume 2.

The State Historic Preservation Officer is requested to concur with the eligibility determinations contained in this assessment report for the seven properties at TA-8 not reviewed in previous reports. Furthermore, the SHPO is requested to concur that this documentation resolves adverse effects to buildings 8-21, 8-24, and 8-28.

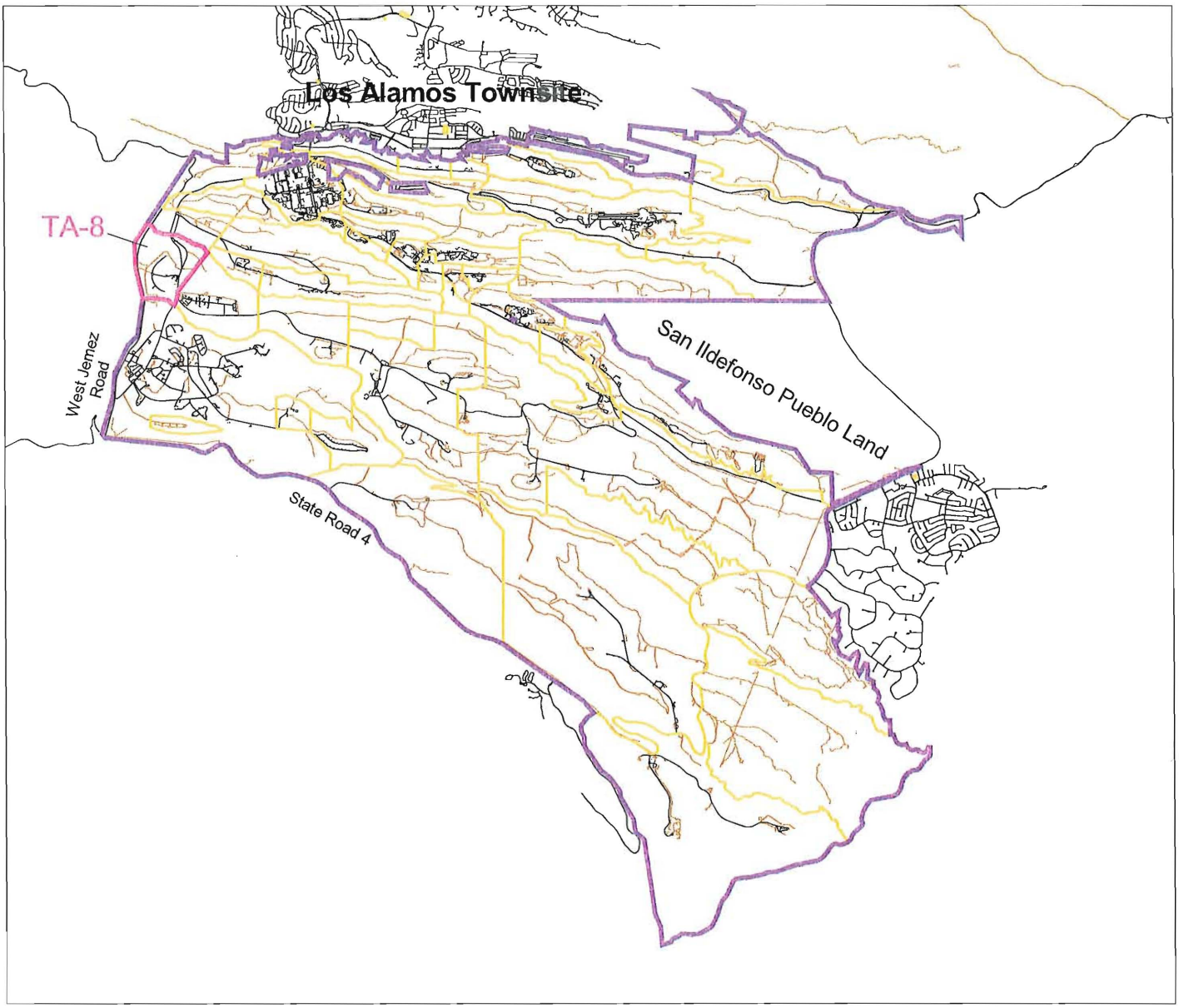
INTRODUCTION

Historic Property Eligibility Assessment and Historic Context

In compliance with Sections 106 and 110 of the National Historic Preservation Act, this report contains documentation regarding the National Register of Historic Places (Register) eligibility status of historic buildings located at TA-8. Work processes carried out at TA-8 supported Manhattan Project and Cold War nuclear weapons research and development. Historical context information about activities at TA-8, property descriptions, and recommendations for Register eligibility for previously unreviewed properties are included in this report. A discussion of the multiple property method used to evaluate these properties is also included. Appendices to Volume 1 of the report include historic building inventory forms for all buildings at TA-8, maps showing TA-8's construction history and the location of eligible and non-eligible properties, interview information, and a listing of drawings on file for buildings TA-8-21, TA-8-24, and TA-8-28. Archival photographs of these three buildings and additional view are included in Volume 2.

Survey Methods

In 2003, 2004, and 2006, various surveys of historic properties located at TA-8 were conducted by Sheila A. McCarthy, Historical Architect, Benchmark Consulting Group; John Ronquillo, Sigma Science, Inc.; Ken Towery, Site Planning and Project Initiation Group, LANL; and Kari Garcia and Ellen McGehee, Ecology and Air Quality Group, LANL. The building surveys were accomplished by conducting field visits to the buildings at TA-8 (Map 1). Architectural and engineering elements of the properties were documented and photographs were taken. LANL records research was also conducted.



Los Alamos
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Environmental Protection Division

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1000 0 1000 2000 3000 4000 Meters

N
W E
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Technical Area 8
LANL Boundary
Technical Areas
Roads
Roaddirt
Parkpave
Parkdirt

LANL Boundary and TA-8

Map 1

HISTORICAL OVERVIEW

Manhattan Project (1942–1946)

In 1939, Albert Einstein wrote a letter to President Franklin Roosevelt warning him of a possible German atomic bomb threat (Rothman 1992). President Roosevelt, acting on Einstein's concerns, gave approval to develop the world's first atomic bomb and appointed Brigadier General Leslie Groves to head the "Manhattan Project." Groves, in turn, chose Robert Oppenheimer to coordinate the design of the bomb.

A single isolated and secret research facility was proposed. General Groves had several criteria: security, isolation, a good water supply, an adequate transportation network, a suitable climate, an available labor force, and a locale west of the Mississippi located "at least 200 miles from any international border or the West Coast" (Rothman 1992). In 1942, Oppenheimer, who had visited the Pajarito Plateau on a horseback trip, suggested the Los Alamos Ranch School. Oppenheimer and his staff moved to Los Alamos in early 1943 to begin work. The recruitment of the country's "best scientific talent" and the construction of technical buildings were top priorities (LANL 1995:8). The University of California agreed to operate the site, code name "Project Y," under contract with the government (an arrangement that has continued to this day). Although the fission bomb was conceptually attainable, many difficulties stood in the way of producing a usable weapon. Technical problems included timing the release of energy from fissionable material and overcoming engineering challenges related to producing a deliverable weapon. Nuclear material and high explosive studies were of immediate importance (LANL 1995).

Two bomb designs appeared to be the most promising: a uranium "gun" device and a plutonium "implosion" device. The gun device involved shooting one subcritical mass of uranium-235 into another at sufficient speed to avoid pre-detonation. Together, the two subcritical masses would form a supercritical mass, which would release a tremendous amount of nuclear energy (Hoddeson *et al.* 1998). This method led to the development of the "Little Boy" device. Because it was conceptually simple, "Little Boy" was never tested before its use at Hiroshima. Scientists were less confident about the implosion design, which used shaped high explosives to compress a subcritical mass of plutonium-239. The symmetrical compression would increase the density of the fissionable material and cause a critical reaction.

In 1944, the uncertainties surrounding the plutonium device necessitated a search for an appropriate test site for the implosion design, later used in the "Fat Man" device. Manhattan Project personnel chose the Alamogordo Bombing Range in south-central New Mexico for the location of the test. A trial run involving 100 tons of trinitrotoluene (TNT) was conducted at the test site ("Trinity Site") on May 7, 1945. This dress rehearsal provided measurement data and simulated the dispersal of radioactive products (LANL 1995). The Trinity test was planned for July and its objectives were "to characterize the nature of the implosion, measure the release of nuclear energy, and assess the damage" (LANL 1995:11). The world's first atomic device was successfully detonated in the early morning of July 16, 1945. Little Boy, the untested uranium gun device, was exploded over the Japanese city of Hiroshima on August 6, 1945. On August 9, 1945, Fat Man was exploded over Nagasaki, essentially ending the war with Japan.

Early Cold War Era (1946–1956)

The future of the early Laboratory was in question after the end of WWII. Many scientists and site workers left Los Alamos and went back to their pre-war existences. Norris Bradbury had been appointed director of the Laboratory following Oppenheimer's return to his pre-WWII duties (LANL 1993a). Bradbury felt that the nation needed "a laboratory for research into military applications of nuclear energy" (LANL 1993a:62). In late 1945, General Groves directed Los Alamos to begin stockpiling and developing additional atomic weapons (Gosling 2001). Post-war weapon assembly work was now tasked to Los Alamos's Z Division, which had been relocated to an airbase (now Sandia) in nearby Albuquerque, New Mexico (Gosling 2001).

In 1946, Los Alamos became involved in "Operation Crossroads," the first of many atmospheric tests in the Pacific. Later, also in 1946, the U.S. Atomic Energy Commission (AEC) was established to act as a civilian steward for the new atomic technology born of WWII. The AEC formally took over the Laboratory in 1947, making a commitment to retain Los Alamos as a permanent weapons facility.

With the beginning of the Cold War—the term "Cold War" was first coined in 1947—weapons research once again became a national priority. Weapons research at Los Alamos, spearheaded by Edward Teller and Stanislaw Ulam, focused on the development of the hydrogen bomb, the feasibility of which had been discussed seriously at Los Alamos as early as 1946. The simmering Cold War came to a full boil in late 1949 with the successful test of "Joe I," the Soviet Union's first atomic bomb. In January 1950, President Truman approved the development of the hydrogen bomb; Truman's decision led to the remobilization of the country's weapons laboratories and production plants. The year 1950 also marked the initial meeting of Los Alamos's "Family Committee"—a committee tasked with developing the first two thermonuclear devices (LANL 2001). In 1951, the Nevada Proving Ground (now the NTS) was established and the first Nevada atmospheric test, "Able," was conducted. In the same year, Los Alamos directed "Operation Greenhouse" in the Pacific and successfully conducted both the first thermonuclear test, "George," and the first thermonuclear "boosted" test, "Item." In 1952, the first thermonuclear bomb, known as "Mike," was detonated at Enewetak Atoll in the Pacific (LANL 1993a).[1] In short order, the Soviet Union responded with a successful fusion demonstration in August 1953, followed by a test of a hydrogen bomb in 1955. The arms race was on. By 1956, Los Alamos had successfully tested a new generation of high explosives (plastic-bonded explosives) and had begun to make improvements to the primary stage of a nuclear weapon (LANL 2001).

Although weapons research and development has always played a major role in the history of LANL, other key themes for the years 1942–1956 include supercomputing advancements, fundamental biomedical and health physics research, high explosives research and development, reactor research and development, pioneering physics research, and the development of the field of high-speed photography (McGehee and Garcia 1999). The Early Cold War era at Los Alamos ended in 1956, a date that marks the completion of all basic nuclear weapons design at LANL; later research at Los Alamos focused on the engineering of nuclear weapons to fit specific delivery systems. The year 1956 was also the last year that Los Alamos was a closed facility—the gates into the Los Alamos town site came down in 1957.

[1] A better understanding of the Marshall Islands language has permitted a more accurate transliteration of Marshall Island names into English. Enewetak is now the preferred spelling (formerly Eniwetok).

Late Cold War Era (1956–1990)

The Late Cold War era saw Los Alamos's continued support of the atmospheric testing programs in the Pacific and at NTS. In 1957, the first of many underground tests at NTS was conducted. Other defense mission undertakings during this time included treaty and test ban verification programs (such as the satellite detection of nuclear explosions), research and development of space-based weapons, and continued involvement with stockpile stewardship issues. Non-weapons undertakings supported nuclear medicine, genetic studies, National Aeronautics and Space Administration collaborations, superconducting research, contained fusion reaction research, and other types of energy research (McGehee and Garcia 1999).

DESCRIPTION OF TECHNICAL AREA

TA-8 (Anchor West Site or GT Site)

Historical Background

TA-8, historically known as Anchor West Site, was used during WWII to conduct gun tests in support of the uranium gun device (the "Little Boy" design). Some of the earliest wartime research was carried out in former ranch buildings belonging to the Ross family who had owned the land in the TA-8 area before the government appropriated private lands on the Plateau for Manhattan Project use.

Homesteading and A. M. Ross's Anchor Ranch

Formal homesteading on the Pajarito Plateau began in the late 1880s. In 1887, Juan Luis Garcia filed the plateau's first homestead application. By the late 1930s, plateau homesteaders had patented forty-two claims under the terms of the Homestead Act. Homestead families used the plateau for seasonal farming, ranching, and resource gathering. Dry land farmers—primarily Hispanic-Americans from the nearby Rio Grande Valley settlements of San Ildefonso, Pojoaque, El Rancho, and Española—typically worked on their patented lands each year during the spring and summer months. This seasonal and loosely communal way of living came to an abrupt end in late 1942 when the United States government appropriated the plateau for its secret atom bomb project (McGehee *et al.* 2006a)

Some of the homesteaders lived on the Pajarito Plateau year-round. These mostly Anglo homesteaders did not own property in the Rio Grande Valley; rather, they built permanent, weatherproofed homes on the Plateau. In later years, a few of the Anglo homesteaders bought out adjoining claims and turned their homesteaded lands into successful ranches. Unlike the seasonal dry land farmers, they irrigated their crops and employed the latest farming and ranching methods. The 322-acre Anchor Ranch, owned by A. M. Ross, was located on lands originally patented by James Loomis and Severo Gonzales in 1901 and 1902 respectively. Loomis bought out Gonzales prior to 1913, and in 1914 he sold both patents to Claud Irwin. Irwin, in turn, sold the land to A. M. Ross in 1918 (McGehee 2003). Alexander Ross was mentally impaired and did not personally oversee the operation of Anchor Ranch. D. A. Linn, one of Ross's caretakers, wrote monthly reports about Ross's health and about the status of the ranch:

> Plowed part of the field for oats and maize...Removed overhauled and replaced wooden flume through which water passes from upper reservoir to irrigation ditch...Alex is agreeable, obedient well and seemingly happy (Linn 1937).

Anchor Ranch was a substantial year-round ranching concern and ranch property included a variety of ranch houses and outbuildings such as an ice house, a garage, a tool shed, a main house and yard, two bunk houses, a barn, and a house for the ranch foreman (Figures 1-8). Some of the ranch buildings were used by Manhattan Project scientists and technicians when wartime research and development activities moved from the laboratories around Ashley Pond in the townsite to more remote technical areas, such as TA-8.

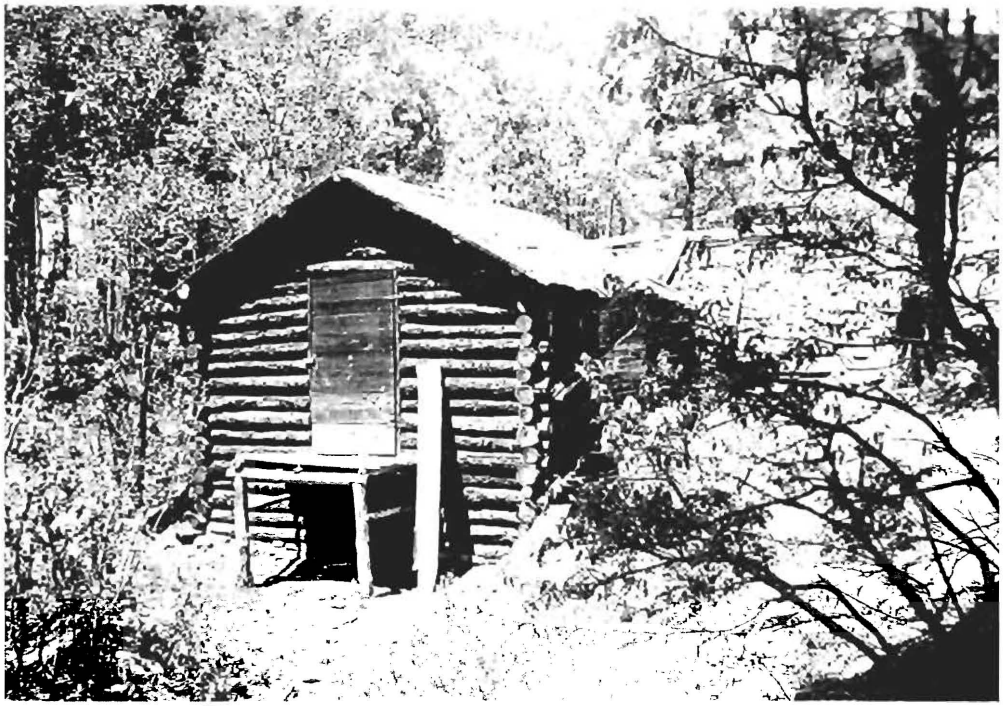


Figure 1. Anchor Ranch Ice House, May 1943

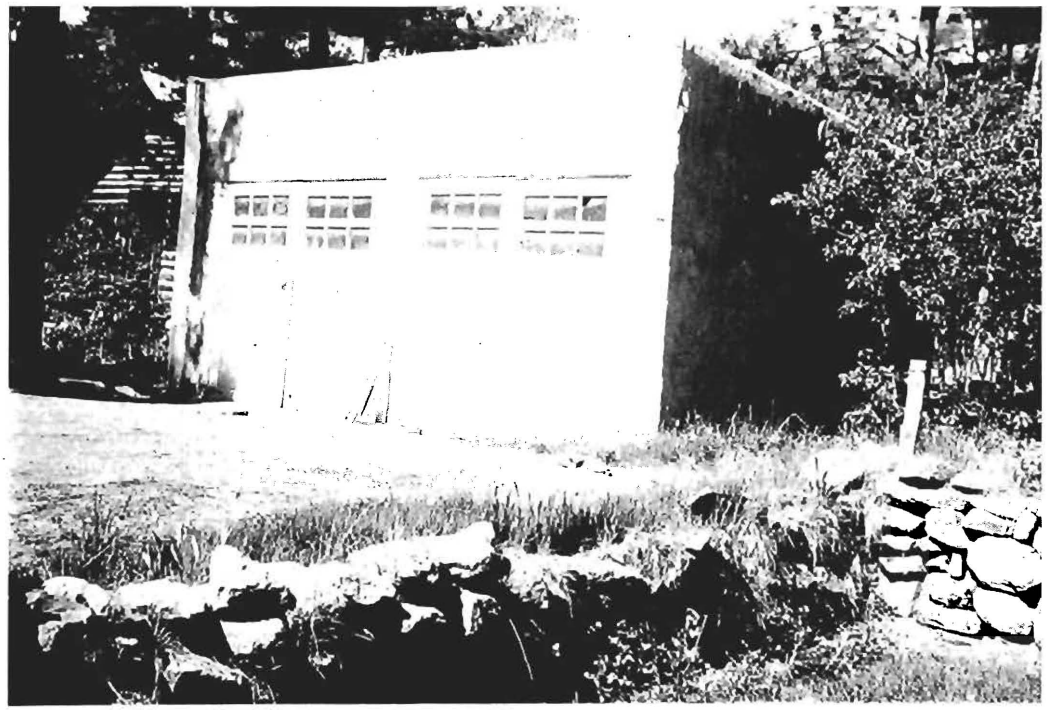


Figure 2. Anchor Ranch Garage, May 1943

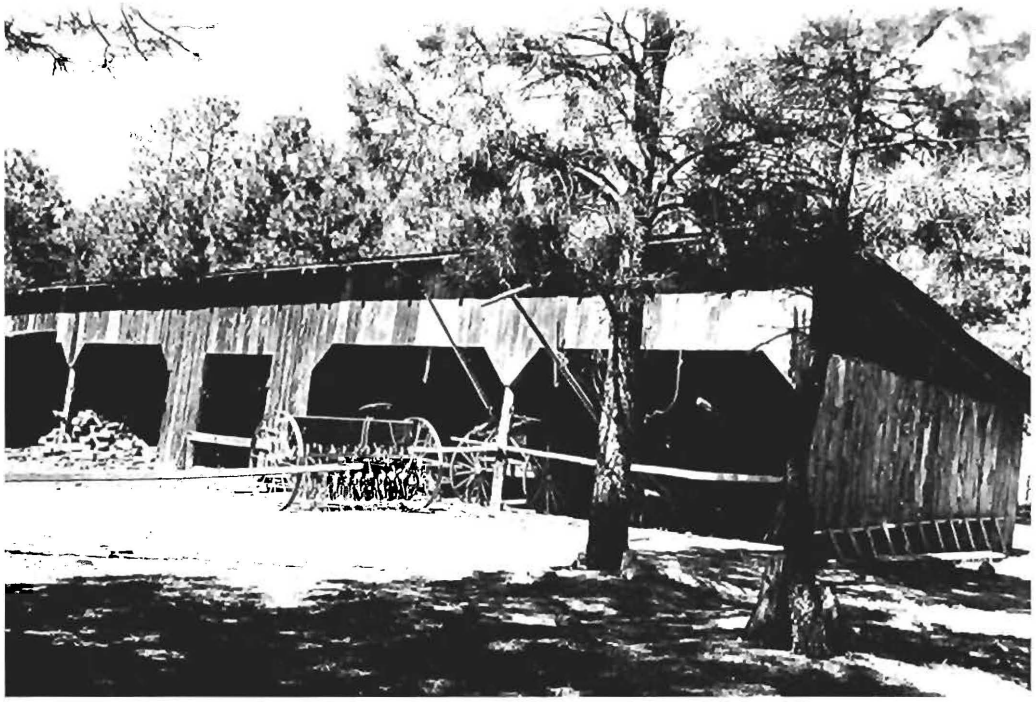


Figure 3. Anchor Ranch Tool Shed, May 1943

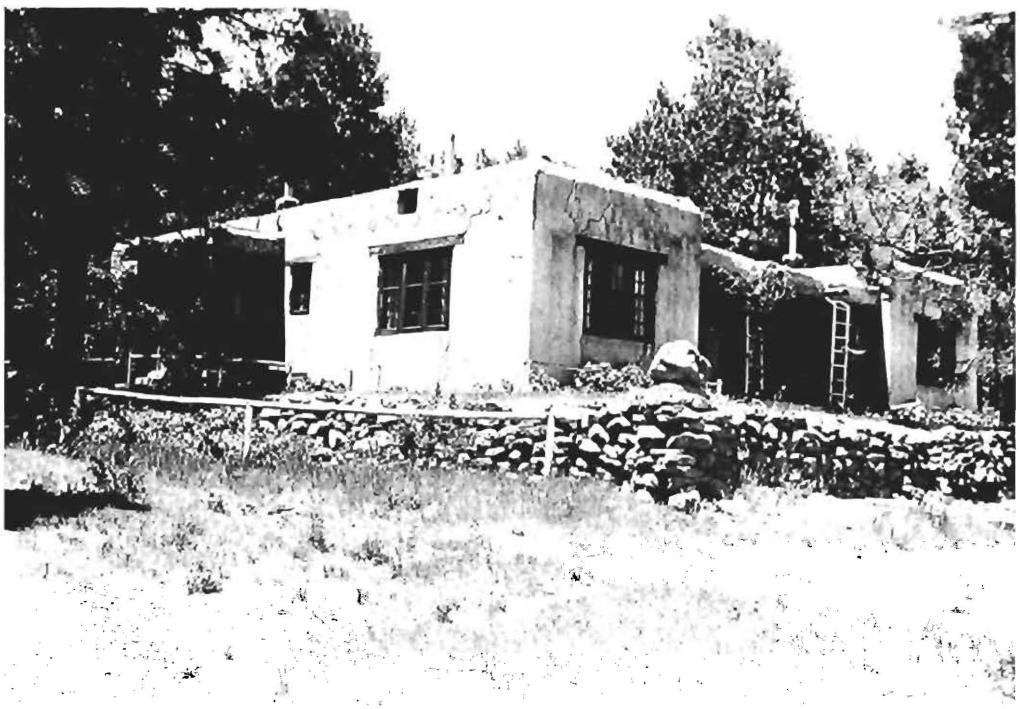


Figure 4. Anchor Ranch Main House and Yard, May 1943



Figure 5. Anchor Ranch Barn, May 1943



Figure 6. Anchor Ranch Foreman's House, May 1943



Figure 7. Anchor Ranch Bunk House #1, May 1943



Figure 8. Anchor Ranch Bunk House #2, May 1943

Anchor West Site during the Manhattan Project

The Anchor West Site was used during the Manhattan Project to design and test components of the uranium gun device, the weapon design known as "Little Boy" that was exploded over Hiroshima. The buildings at TA-8 included standard proving ground facilities that were designed with a central control area for explosives operations. Three concrete "bombproof" buildings were built into a ravine and were designed to be partially underground. Placing the buildings lower in the ravine allowed for gun emplacements to be positioned above the roof level of the control building. The gun mounts were covered by wooden sheds when not in use, and a truck was used to tow the rail-mounted sheds back out of the way (Jones 1993) (Figure 9). This unique proving ground layout lessened the hazards associated with firing the high-alloy tubes in free recoil. The Anchor Ranch Proving Ground was completed and in active use by mid-September 1943. Special test guns were ordered from the Naval Gun Factory at the end of 1943, but were not ready until March 1944. During the four-month waiting period, personnel at TA-8 conducted practice tests, perfected gun testing operations, and established high-speed photographic techniques for documenting the test data (McGehee *et al.* 2003).



Figure 9. Gun Site (December 1946; note ravine, center, and covered gun emplacements with targets, at right)

Early Radiography Work

In May 1944, the first industrial-type radiograph was made at Anchor West Site using a medical X-ray unit (U.S. DOE 1986). This early radiographic work was carried out in one of the log guesthouses (Bunkhouse Number 2) that were part of the pre-war Anchor Ranch (Figures 10, 11, and 12). In August 1944, these operations were moved to T-Site, another early TA (U.S. DOE 1986). Radiographic (X-ray) facilities were developed at Los Alamos to inspect various weapons parts and high explosives components.



Figure 10. Bunkhouse #2 During WWII



Figure 11. View of Early Radiographic Operations

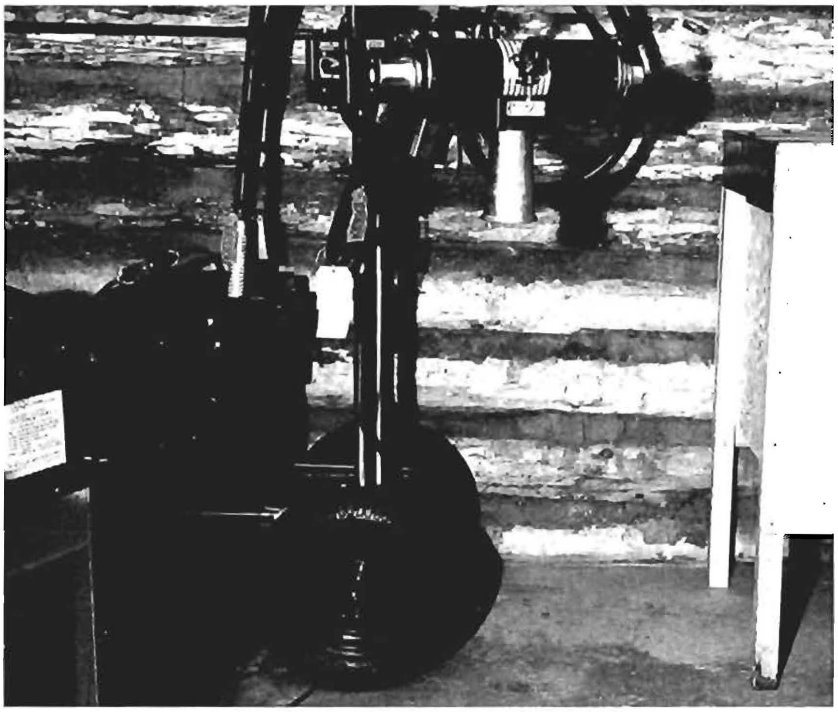


Figure 12. Interior View of Bunkhouse #2

Post-War High Explosives Research and Development

Beginning in the fall of 1945, TA-8 was used by Laboratory personnel for high explosives research and development. At this time, the firing and testing of guns was discontinued.

In July 1949, construction of a new radiographic complex was begun. The new "GT-Site," named for Gerald Tenney (Manhattan Project veteran and post-war group leader) was completed by 1950, the same year that some of the older wartime facilities at Anchor West Site were being removed (Figures 13 and 14). Early GT-Site contained a storage vault; source rooms; high explosives magazines; and X-ray, betatron, and film processing equipment.

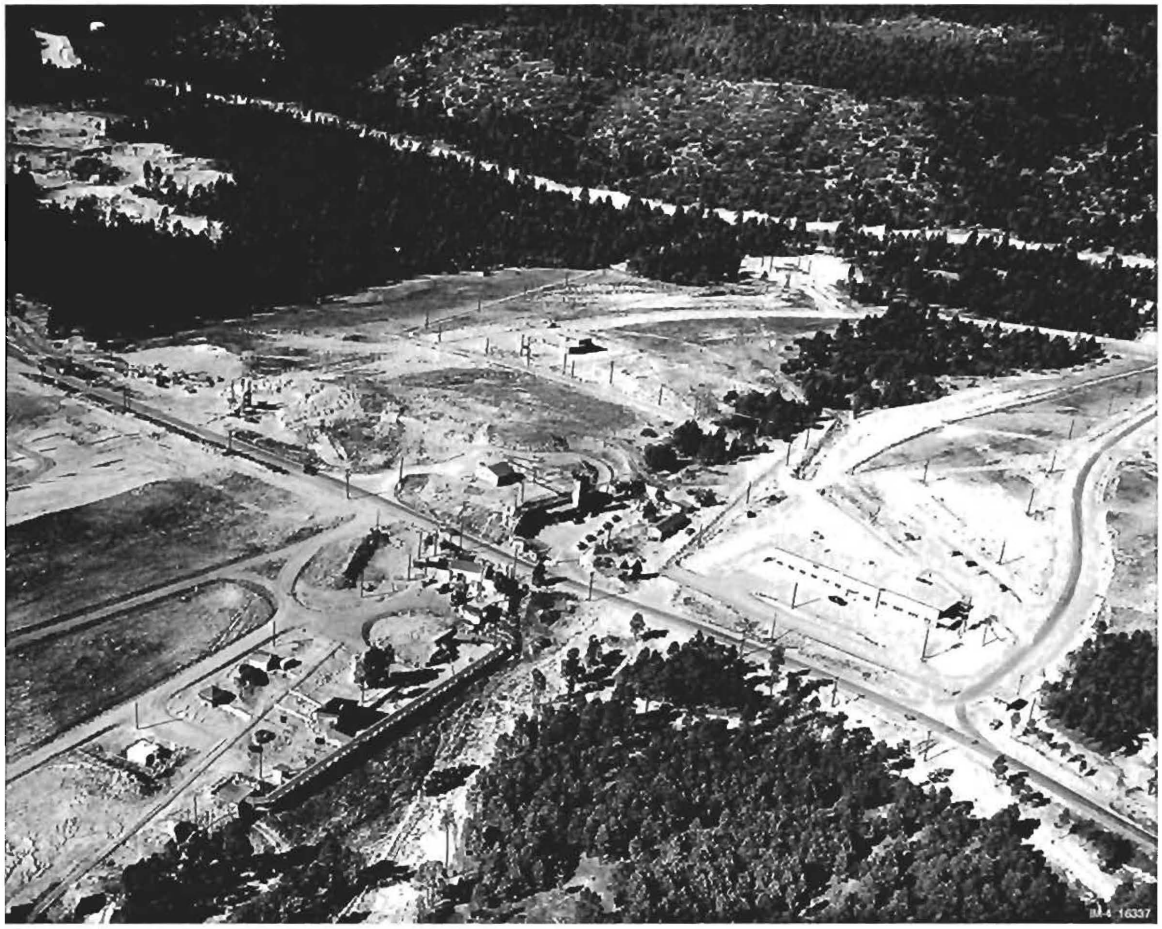


Figure 13. Anchor West Site (TA-8) (1950)
(Gun Site facilities located in upper half of aerial view, above main road in center of photo)



Figure 14. TA-8, New Construction (1950)

During the Cold War years, facilities at TA-8 were used for ultrasonic and electromagnetic testing (U.S. DOE 1986). In the 1950s and 1960s, J Division personnel used buildings 1, 2, and 3 at TA-8 for polystyrene plastics work and crystal growing experiments, including the production of mineral and organic crystals (LASL 1967) (Figures 15-19).

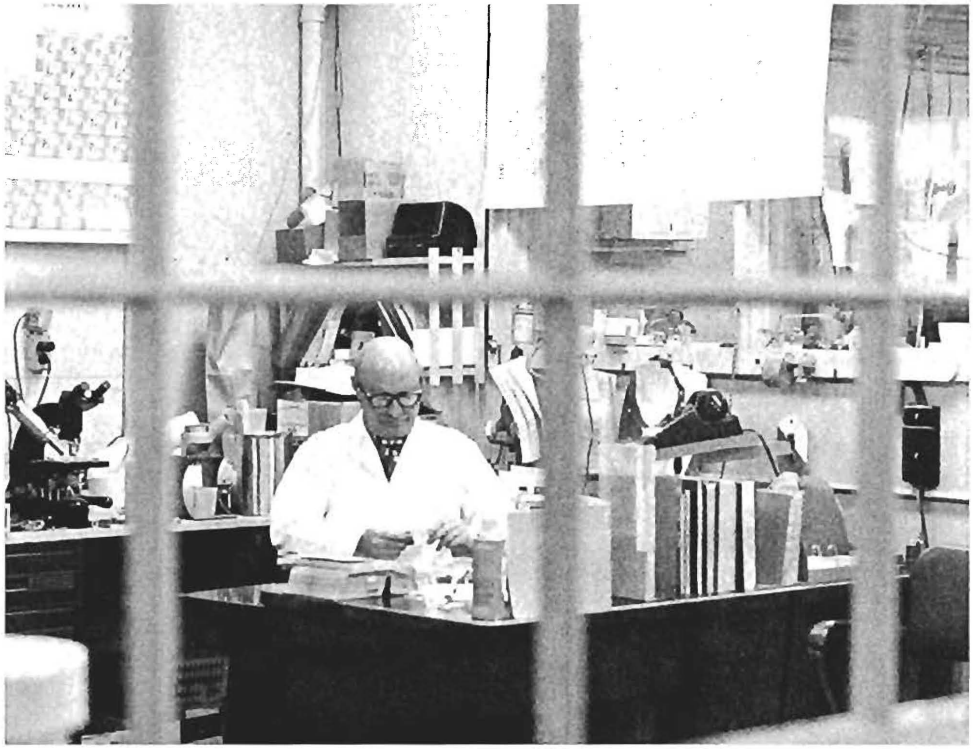


Figure 15. Group J-16's Earl Fullman working in TA-8-1, circa 1967

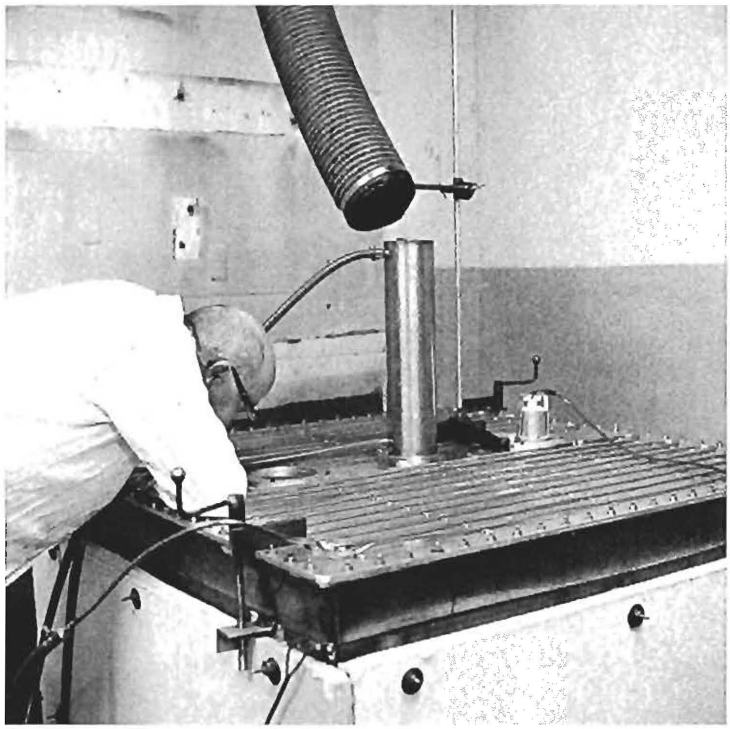


Figure 16. Plastic scintillator formation at TA-8 (plastic is boiled, then solidified)



Figure 17. Fullman places material in a furnace to grow antimony crystals



Figure 18. Small bottle with tiny germanium crystals shaped to make infrared detectors



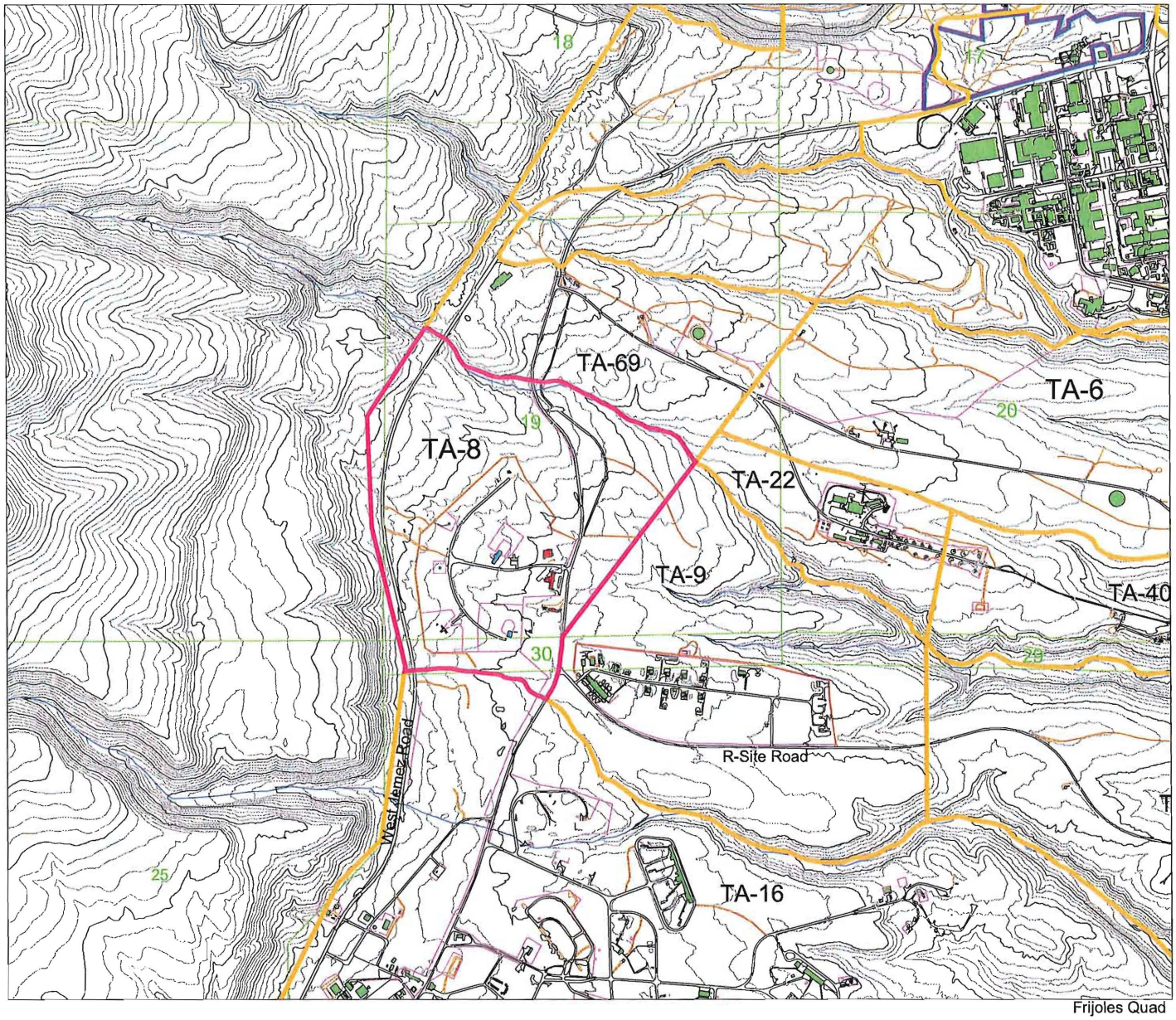
Figure 19. TA-8, "Gun Site," in 1967

Current Function

TA-8 currently supports non-destructive testing and evaluation activities (Figure 20). In addition to standard office space, TA-8 contains laboratory areas that house high-intensity radiography equipment used for studies of high explosives, plutonium, uranium, arsenic, lithium hydride, and titanium oxide. Other diagnostic and scientific capabilities include photography laboratories, darkrooms, a scanning electron microscope instrument room, and a machine shop. Complete X-ray developing is also available in this facility (MacRoberts n.d., LANL 1993b, Harris 1993a) (Map 2).



Figure 20. 1991 Aerial of TA-8



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1000 0 1000 2000 Feet

300 0 300 600 900 Meters

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TA-8

- Buildings Previously Declared Eligible
- Buildings Currently Being Evaluated
- Tech Area 8
- Technical Areas
- LANL Boundary
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- Lanl_contour1991_100_arc.shp
- Lanl_contour1991_020_arc.shp
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Fences
- Buildings/Structures

Map 2

MULTIPLE PROPERTY METHOD OF EVALUATION

TA-8's buildings and structures were evaluated using a multiple property documentation approach. This systematic approach serves as a useful evaluation tool to determine the historical significance of a group of thematically related properties, such as those located at TA-8. A key element of the multiple property documentation approach is context. Contexts provide information about historical patterns and trends and have clearly defined themes, geographical areas, and chronological periods (U.S. NPS 1999). Within the boundaries of TA-8, properties are linked to one or more historical themes underlying the main context: *Research, Development, and Testing in Support of the Nuclear Weapons Program.* The buildings and structures are technologically related and date to the Manhattan Project and Cold War time periods at Los Alamos (1942–1963). Decisions relating to final eligibility recommendations were based on the type of property, the level of physical integrity, and associations with significant themes.

Associated Property Types

The multiple property documentation approach requires the identification of property types that are associated with historical contexts. This identification facilitates the evaluation of individual properties within the broader complex of properties being reviewed. Properties are compared with other historical resources that have similar histories and similar physical characteristics (Hanford Site 1999a).

There are four general property types associated with TA-8's historical themes.

1. Laboratory-Processing-Testing Buildings or Structures such as high explosives research and development facilities.

2. Administration Buildings such as office buildings and facilities housing facility management and health and safety personnel.

3. Security Buildings and Structures such as guard stations, access control buildings, security lights, and fencing.

4. Support Buildings and Structures such as warehouses, storage buildings, water tanks, utilities, and waste treatment facilities.

Laboratory-processing-testing facilities located at TA-8 are associated with the technical functions underlying the main context of research, development, and testing in support of the nuclear weapons program. Specific activities carried out in this type of property support Cold War high explosive research and development, weapon component inspection and verification, and WWII weapon design. Storage magazines, identified in this report as "second tier" properties, are considered an essential but secondary type of laboratory-processing-testing building. These properties do not house key operations; however, research and development activities would not function without them.

Laboratory-processing-testing facilities are representative of the "industrial vernacular" architectural style prevalent at Los Alamos. Like LANL's other research facilities, the design of TA-8's properties is primarily determined by the nature of the TA's specific operations. For example, heavily reinforced concrete is the primary construction material used when designing a facility for high explosives and radioactive materials research because concrete is inherently secure, durable, and

cleanable. The type of activities carried out in each building or structure also determines the configuration of interior space, and the physical layout of these facilities is often dictated by safety concerns.

Administration buildings located at TA-8 are closely associated with the operation of nearby laboratory-processing-testing facilities. Administration buildings typically house support and research operations such as administrative and staff offices, monitoring and facility management staff offices, light laboratory space, showers, and change rooms. Administration buildings are typically located away from the experimental areas. This practice allows personnel and material from the administration facilities to remain separate from high explosives or other hazards and maximizes the distance from experiments.

Security buildings and structures are associated with the general operation of TA-8 and support the main overarching theme of research, development, and testing related to the Laboratory's nuclear weapons program. Examples of this property type include guard stations and physical exclusion structures such as fencing and barriers.

Support buildings and structures were originally built to support Manhattan Project and Cold War research and development. Like laboratory-processing-testing facilities, support facilities are divided into two subcategories. "First tier" support properties are primarily buildings and include machine shops, warehouses, power plants, and significant water tanks. "Second tier" support properties are primarily structures; examples include pump houses and electrical substations.

Core properties within each associated property type have also been identified. These buildings or structures are key representatives of their associated theme(s) and are often eligible for the National Register.

Integrity

Although properties may be significant or exceptionally significant and may be eligible for the Register based on association with historical events and contexts, integrity must be determined for all buildings that, on first-cut, are considered eligible. The LANL historic buildings staff has developed four integrity codes to better assess potentially eligible properties. The integrity requirements for properties eligible under Criterion A are less stringent than for those properties eligible under Criterion C. A historically significant property with a level 3 integrity could still be eligible, especially if an element of historical uniqueness is involved. Properties eligible under Criterion C should have no lower than a level 2 integrity. Level 4 integrity properties are not eligible for the Register.

1. Excellent Integrity - the property is still closely associated with its primary context and retains integrity of location, design, setting, workmanship, materials, feeling, and association. Little or no remodeling has occurred to the property and all remodeling is in keeping with its associated historic context and significant use period. Good examples at LANL would be TA-21-1001 with its original file cabinets and relatively stable use history (the building has always housed records) and the Van de Graaff facility (TA-3-16) with its original equipment, records, and control panels.

2. Good Integrity - the property's interior and exterior retain historic feeling and character but most of the original equipment may be gone. The property may have had minor remodeling.

3. Fair Integrity - a property in this category should retain original location, setting, association, and exterior design. All associated interior machinery and equipment may be absent but the key question is "Is this property still recognizable to a contemporary of the building's historic period?"

4. Poor Integrity - the property has no connection with the historically significant setting, feeling, and context. Major changes to the property have occurred. The property would be unrecognizable to a contemporary.

Themes

Activities within TA-8 can be grouped under two historical themes that support the TA's main historical context: *Research, Development, and Testing in Support of the Nuclear Weapons Program.* The themes and associated properties are listed below. Some of the facilities at TA-8 are linked with more than one theme. Minor themes not listed below include "security" and "administration." Buildings associated with these themes include existing guard stations and the main administration building at TA-8.

WWII Weapons Development (including gun assembly research [Little Boy])
TA-8-1, -2, and -3

Radiographic Inspection (includes inspection and nondestructive radiography)
TA-8-20, -21, -22, -23, -25, -26, -28, -29, -30, -32, -65

Security
TA-8-20 and TA-8-28

Administration
TA-8-21

Eligibility Criteria

Laboratory-processing-testing facilities, administration buildings, and security buildings and structures do not need to possess an integrity of both exterior and interior features in order to be eligible for the National Register under Criterion A. In cases where original equipment has been removed, a property can still be considered significant for its historical associations. Laboratory-processing-testing, administration, and security properties need only retain original location, setting, association, feeling, and exterior design to maintain significant historical integrity under Criterion A. Properties eligible under Criterion C have to meet a more stringent standard of physical integrity. Additions and remodeling that reflect changing scientific missions are acceptable under Criterion C (Hanford Site 1999b).

In order to be eligible under Criterion A, support buildings and structures must have functioned as significant support facilities within an associated historical context (Hanford Site 1999b). "First tier" support properties, if linked to a historically significant context and 50 years old or older, may be eligible for the Register. If less than 50 years old, support properties must be exceptionally significant. "Second tier" support and laboratory-processing-testing properties, primarily structures, are usually not eligible for the Register (even if they are 50 years old or older) because of the minor role they played in history.

DESCRIPTIONS OF EVALUATED BUILDINGS

Technical Area: 8

Building Number: 20
Original Function: Guard Station
Current Function: Guard Station
Date Constructed: 1950

Associated Theme: Radiographic Inspection/Security
Property Type: Security
Integrity: Excellent
Core: Yes
Eligibility: Eligible (Criterion A)

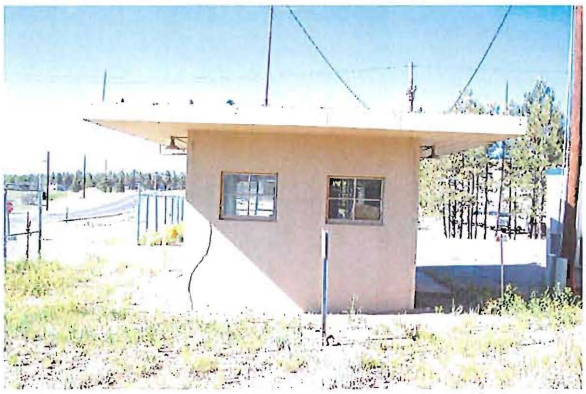
Buildings with similar floorplan within TA: TA-8-28



South side



Oblique view of west and south sides



North side



Oblique view of east and north sides

Architectural Description:
TA-8-20 was constructed as a one-story, square-in-plan building measuring 13 ft 8 in. by 13 ft 8 in. for a total of 144 ft^2 of usable floor space. The guard station has a raised 6-in.-thick concrete floor slab with a perimeter foundation, and 1-ft-thick concrete walls. A concrete apron is located on the front (south side) of the building. The flat roof is constructed with steel angles covered with a 20-gauge roof deck, 2 in. rigid insulation, and 3-ply tar and gravel roofing. The roof has 3-ft-deep cantilevered eaves finished with non-perforated metal pans attached to the soffits with a metal fascia. The roof is equipped with lightning rods, roof-mounted lights, a vent stack, and an antenna. A single painted hollow metal and ½-glass entry door is located on the building's south side. Steel frame three-light awning style windows are located on the south, west, and east sides with four-light hopper

windows on the north side. Additional exterior building elements include pendant style light fixtures at all four corners, conduit, minor signage, and a fire extinguisher.

Historical Background:
The guard station building originally served as the main security access control point at TA-8. This building played a vital security role at the Laboratory.

Determination of Eligibility:
This building meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, the building is eligible for inclusion on the Register as a significant property within TA-8. The building is significant under Criterion A due to its association with Cold War radiographic inspection in support of the Laboratory's nuclear weapons program.

Technical Area: 8

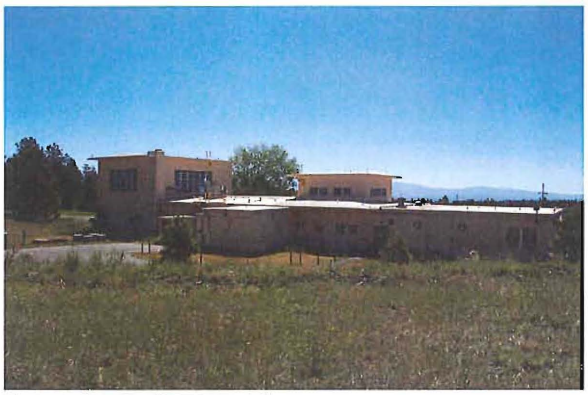
Building Number: 22
Original Function: Nondestructive Testing
Current Function: Nondestructive Testing
Date Constructed: 1950

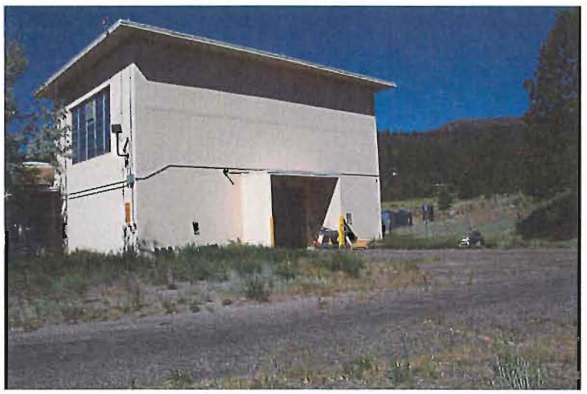
Associated Theme: Radiographic Inspection
Property Type: Laboratory/Processing
Integrity: Good
Core: Yes
Eligibility: Eligible (Criterion A)

Buildings with same floorplan within TA: none


Oblique view of east side


Partial view of south side


Overview of west side


View of north side

Architectural Description:
TA-8-22 is a combination building with both one- and two-story areas with a basement. The approximately rectangular-in-plan building measures 124 ft 8 in. by 47 ft 2in. The building was originally constructed with a one-story entrance area flanked by two sections each containing an air terminal.

The building is constructed with a concrete foundation and floor slab, concrete walls, and a flat concrete roof with cantilevered overhangs. The roof is equipped with air-handling equipment and exhaust fans. The primary entrance into the building is located on the east side within the one-story section. Access is through a pair of painted hollow metal and ½-glass doors that are covered with a flat concrete canopy. A second pair of plain hollow metal doors is also located on the east side. An enclosed staircase leading to the basement is located on the west side towards the north end of the building and is set several feet from the building face. The stair enclosure is constructed with concrete masonry unit walls. A pair of hollow metal and ½-glass doors accesses the enclosure where

steeply pitched concrete steps are located. A second pair of metal doors is located at the bottom of the stairs. A corrugated metal shed roof is located behind the basement access and adjacent to the building just above grade level.

The air terminal room on the north end is two stories in height and measures 33 ft long by 46 ft 6 in. wide by 30 ft 6 in. high. The air terminal room is equipped with an oversized sliding metal door. Small concrete wing walls extend out from the face of the building adjacent to the sliding door creating a small dock area. This area is at grade level. The upper floor of the air terminal is equipped with banks of aluminum framed windows that are five and six units wide by seven units tall. A chimney is located in the southwest corner of the air terminal.

The smaller air terminal, located to the south of the main entrance, is approximately one and a half stories in height and measures 24 ft wide by 22 ft long and 23 ft 5 in. high. The remainder of the building is one story in height. The air terminal is equipped with an oversized sliding metal door and two banks of windows. Two-light awning style windows are set within these window banks. Concrete bolsters are located at both corners of the sliding door to prevent vehicles from running into it.

The building received two additions during the 1960s as well as numerous upgrades over time. In 1961, an 18 ft by 22 ft classified storage room was constructed adjacent to the primary entrance on the west side of the building. The classified storage room was constructed with a reinforced concrete perimeter foundation, floor slab, walls, and a flat roof. Access into the room is from the inside of the building through a single door. As part of this addition a smaller room was also added north of the main storage room. This room was constructed with a concrete perimeter foundation, 4 in. concrete floor slab, pumice block walls, and a steel bar joist shed roof finished with a 4-ply pitch and gravel covering. A single hollow metal and ½-glass door accesses this room from the west side.

A 1963 addition, located on the south end of the building, is constructed with a concrete foundation, concrete masonry unit walls, and a flat roof. The flat roof is constructed with steel bar joists covered with a 4-ply built-up pitch and gravel roof. Windows within the addition are aluminum framed 1/1 awning style windows. A pair of oversized metal doors equipped with a crane rail is located on the south side of the addition. Exterior bottle storage is located on the west side along with two wall-mounted exhaust fans.

Additional building elements include signage, amber and red warning lights, loud speakers, and surface-mounted lights. A chain link fence partially encloses the site on the north end.

Historical Background:
TA-8-22 was built in 1950 to house several x-ray machines that are used to radiograph various items. Radiography is used to produce an image on a radiosensitive surface, such as photographic film, using radiation (X-rays) (LANL 1993b, 5-9). Fluorescent penetration experiments are performed in laboratories at TA-8-22 (LANL 1993b, 5-10).

Determination of Eligibility:
This building meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, the building is eligible for inclusion on the Register as a significant property within TA-8. The building is significant under Criterion A due to its association with Cold War radiographic inspection in support of the Laboratory's nuclear weapons program.

Technical Area: 8

Building Number: 23
Original Function: Betatron Building
Current Function: Betatron Building
Date Constructed: 1950

Associated Theme: Radiographic Inspection
Property Type: Laboratory/Processing
Integrity: Good
Core: Yes
Eligibility: Eligible (Criterion A)

Buildings with same floorplan within TA: none



Oblique view of east side



Oblique view of south and east sides



Oblique view of west and south sides



Oblique view of north side

Architectural Description:
TA-8-23 is primarily one story in height with a two-story section located at the northwest corner. The building also contains a partial basement. TA-8-23 is rectangular-in-plan and measures approximately 68 ft by 55 ft with a triangular shaped reinforced concrete wall extending out from the north side of the building by approximately 4 ft 6 in. The building is constructed with a concrete perimeter foundation and floor slab, concrete walls, and a very low pitched hipped concrete roof with 3 ft cantilevered overhangs. The partial basement contains a mechanical room and a utility trench.

Access into the building is possible through a single hollow metal door and a pair of hollow metal doors, both on the east side. An overhead roll-up door is also located on the east side towards the north end adjacent to a steel roof access ladder. A single hollow metal door covered by a concrete canopy is located in the southwest corner of the building. The two-story area is equipped with banks of windows on all sides. The north and south sides have banks of five, two-light awning style windows while the east and west sides are equipped with three banks of windows each, three units

wide by five units tall. Two-light awning style windows are set within these banks of windows. Additional building elements include signage, lights, and a fire extinguisher.

Historical Background:
TA-8-23, known as the Betatron Building, was built in 1950 and houses a 20 million electron volt (MeV) betatron. A betatron is a fixed-radius electron accelerator. It was used to radiograph large items such as nuclear fuel elements, waste barrels, and weapon assemblies (LANL 1993b, 5-8).

Determination of Eligibility:
This building meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, the building is eligible for inclusion on the Register as a significant property within TA-8. The building is significant under Criterion A due to its association with Cold War radiographic inspection in support of the Laboratory's nuclear weapons program.

Technical Area: 8

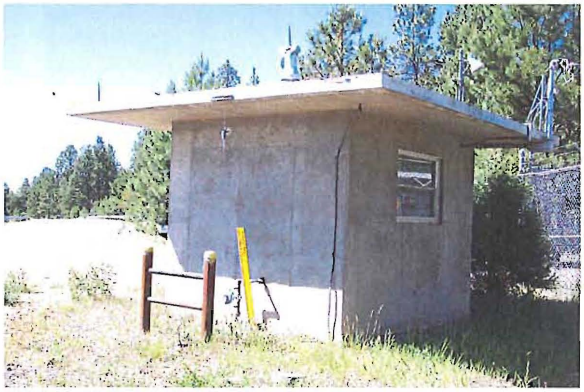
Building Number: 25
Original Function: Utility Building
Current Function: Utility Building
Date Constructed: 1950

Associated Theme: Radiographic Inspection
Property Type: Support (2nd Tier)
Integrity: Good
Core: No
Eligibility: Not Eligible

Buildings with same floorplan within TA: TA-8-29



Oblique view of southwest and southeast sides


Oblique view of northeast and northwest sides

Architectural Description:
TA-8-25 is a small, one-story, rectangular-in-plan building measuring 11 ft by 9 ft with an interior usable floor space of 80 ft^2. The building is constructed with a concrete perimeter foundation, 8 in. thick concrete floor slab, concrete walls, and a very low-pitched, concrete conical roof finished with a 4-ply tar and gravel roofing. The eaves cantilever beyond the face of the building approximately 3 ft. The roof is equipped with loud speakers, and a vent stack is centrally located on the roof. Access into the building is possible through a single painted two-panel hollow metal door with louvers set into the lower panel. The building also contains a single aluminum two-light awning style window with clear glass. Additional building elements include lights, signage, a fire extinguisher, and two junction boxes. The interior of the building is equipped with a 4-ft-deep sump pit.

Historical Background:
TA-8-25 was originally constructed to support operations at TA-8 and was not a key laboratory facility associated with radiographic inspection.

Determination of Eligibility:
This building does not qualify for listing on the National Register of Historic Places as a significant property within TA-8 because it is of secondary or minor importance, serves a purely support function, and does not adequately illustrate historical themes shaping the history of the Laboratory.

Technical Area: 8
Building Number: 26
Original Function: Laboratory Building
Current Function: Storage/Salvage Building
Date Constructed: 1950

Associated Theme: Radiographic Inspection
Property Type: Laboratory/Processing (Tier 2)
Integrity: Good
Core: Yes
Eligibility: Eligible (Criterion A)

Buildings with same floorplan within TA: TA-8-30


View of east side


Oblique view of south and east sides


Oblique view of west and south sides


Oblique view of north and west sides

Architectural Description:
TA-8-26 is a one-story, rectangular-in-plan building measuring 25 ft by 25 ft 3 in. with an interior usable floor space of 576 ft^2. The building has a poured concrete foundation and floor slab with 4 in. aluminum battens covered on the interior and exterior with ½-in. "Plymetal" panels. The building has a very low-pitched conical roof constructed with steel roof trusses and purlins. The roof is finished with 4-ply tar and gravel roofing with 2 in. metal edge gypsum planks. The approximate 3-ft-deep eaves are completely enclosed with aluminum panels. The only access into the building is from the east side via a pair of aluminum doors with the left door equipped with a small window. A concrete apron has been installed in front of the doors. A jib crane extends out from the building above the doors. The remaining three sides (south, west, and north) are equipped with two-light aluminum frame awning style windows. Additional equipment includes lights, signage, and a fire extinguisher. The roof has a vent stack. Two large wooden poles, located on both the north and south sides, are equipped with lightning rods with grounding wires attached to the building. The

interior of the building is equipped with a 3-ft-wide by 4-ft-long by 3-ft-9-in.-deep source pit located in the center of the floor.

Historical Background:
This building originally functioned as a laboratory-processing facility in support of radiographic inspection. Like TA-8-30, this building was built for 60-cobalt radiography work.

Determination of Eligibility:
This building meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, the building is eligible for inclusion on the Register as a significant property within TA-8. When compared to building TA-8-30, a building with similar historical function and identical layout, this building is the better example of the two. The building is significant under Criterion A due to its association with Cold War radiographic inspection in support of the Laboratory's nuclear weapons program.

Technical Area: 8

Building Number: 28
Original Function: Guard Station
Current Function: Guard Station
Date Constructed: 1950

Associated Theme: Radiographic Inspection/Security
Property Type: Security
Integrity: Good
Core: Yes
Eligibility: Eligible (Criterion A)

Buildings with similar floorplan within TA: none


Oblique view of north and west sides


Oblique view of south and east sides

Architectural Description:
TA-8-28 is a one-story building measuring 9 ft 4 in. by 9 ft 4 in. for a total of 64 ft^2 of usable floor space. The building is constructed with a 6 in. concrete floor slab with a perimeter foundation, 1 ft thick concrete walls, and a very low pitched, concrete conical roof finished with a built up 4-ply tar and gravel roofing and copper fascia. The eaves cantilever 3 ft out from the face of the building on all four sides. A vent stack protrudes through the roof and lightning rods are located in each of the four corners. Three-light steel sash hopper windows are located on all four sides of the building. A single 2-panel and ½-glass steel door is located on the north side. Additional exterior building elements include pendant-style light fixtures and signage.

Historical Background:
The guard station building originally served as an interior (non-perimeter) security access control point at TA-8. This building played a vital security role at the Laboratory.

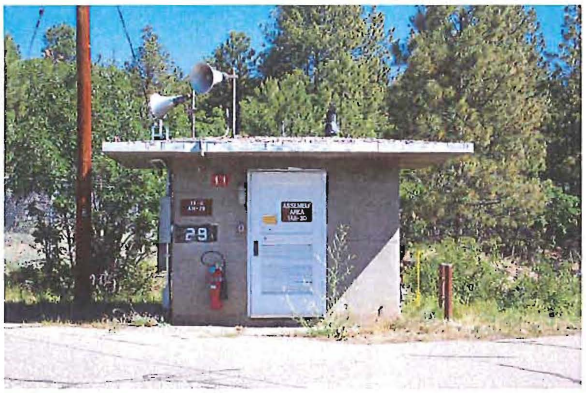
Determination of Eligibility:
This building meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, the building is eligible for inclusion on the Register as a significant property within TA-8. The building is significant under Criterion A due to its association with Cold War radiographic inspection in support of the Laboratory's nuclear weapons program.

Technical Area: 8

Building Number: 29
Original Function: Utility Building
Current Function: Utility Building
Date Constructed: 1950

Associated Theme: Radiographic Inspection
Property Type: Support (2nd Tier)
Integrity: Good
Core: No
Eligibility: Not Eligible

Buildings with same floorplan within TA: TA-8-25



View of south side


Oblique view of north and west sides

Architectural Description:
TA-8-29 is a small, one-story, rectangular-in-plan building measuring 11 ft by 9 ft with an interior usable floor space of 80 ft^2. The building has a concrete perimeter foundation, 8-in.-thick concrete floor slab, concrete walls, and a very low-pitched concrete conical roof finished with a 4-ply tar and gravel roofing. The eaves cantilever beyond the face of the building approximately 3 ft. The roof is equipped with loud speakers. Access into the building is possible through a single painted two-panel hollow metal door with louvers set into the lower panel. The building also contains a single aluminum two-light awning style window with clear glass. Additional building elements include lights, signage, fire extinguisher, and two junction boxes. The interior of the building is equipped with a 4-ft-deep sump pit.

Building TA-8-29 is virtually identical to TA-8-25. The only noticeable difference is the lack of a centrally located roof stack.

Historical Background:
TA-8-29 was originally constructed to support operations at TA-8 and was not a key laboratory facility associated with radiographic inspection.

Determination of Eligibility:
This building does not qualify for listing on the National Register of Historic Places as a significant property within TA-8 because it is of secondary or minor importance, serves a purely support function, and does not adequately illustrate historical themes shaping the history of the Laboratory.

Technical Area: 8

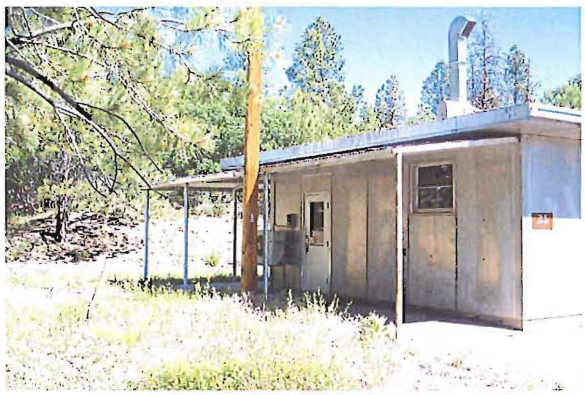
Building Number: 30

Original Function: Laboratory Building
Current Function: Storage/Salvage Building
Date Constructed: 1950

Associated Theme: Radiographic Inspection
Property Type: Laboratory/Processing (2nd Tier)
Integrity: Fair
Core: Yes
Eligibility: Not Eligible

Buildings with same floorplan within TA: TA-8-26


View of east side


View of south side


View of west side with covered area


View of north side

Architectural Description:
TA-8-30 is a one-story, rectangular-in-plan building measuring 25 ft by 25 ft 3 in. with an interior usable floor space of 576 ft^2. The building has a poured concrete foundation and floor slab with 4 in. aluminum battens covered on the interior and exterior with ½-in. "Plymetal" panels. The building has a very low-pitched conical roof constructed with steel roof trusses and purlins. The roof is finished with 4-ply tar and gravel roofing with 2 in. metal edge gypsum planks. The approximate 3-ft-deep eaves are completely enclosed with aluminum panels. The only access into the building is from the east side via a pair of aluminum doors with the left door equipped with a small window. A concrete apron has been installed in front of the doors. A jib crane extends out from the building above the doors. The remaining three sides (south, west, and north) are equipped with two-light aluminum frame awning style windows. Additional equipment includes lights, signage, and a fire extinguisher. The roof has a vent stack. Two large wooden poles, located on both the north and south sides, are equipped with lightning rods with grounding wires attached to the building. The

interior of the building is equipped with a 3-ft-wide by 4-ft-long by 3-ft-9-in.-deep source pit located in the center of the floor.

TA-8-30 is known as the M.A.S.H. Research Lab and is almost identical to TA-8-26. Unlike 8-26, however, a window on the south side of 8-30 was replaced with a single aluminum and wire ½-glass door. A corrugated metal shed roof supported by steel columns was also added on the south and west sides of the building. A new concrete apron was installed under the shed roof.

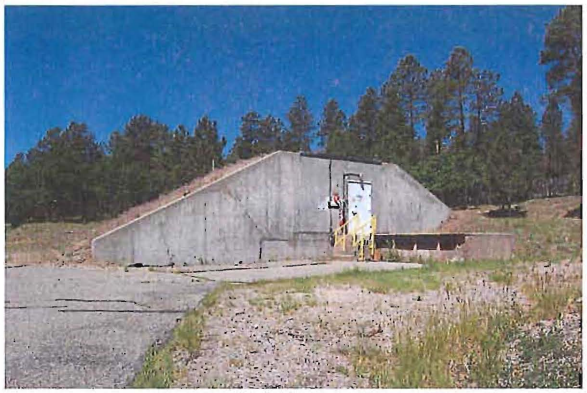
Historical Background:
TA-8-30 was used as a radiation nondestructive test laboratory from 1950 until 1991. Primary work involved the X-ray analysis of weapons components. The building was built for 60-cobalt work. In July 1991, TA-8-30 was converted into the Macro Statistical Hydrodynamics Research (MASH) laboratory (Harris 1993b). At the MASH lab, studies were performed on the fluid dynamics of suspensions using cameras as tracking devices for the particles in the liquids (LANL 1993b, 7-12).

Determination of Eligibility:
This building does not qualify for listing on the National Register of Historic Places as a significant property within TA-8 because another building of identical design and similar historical function at TA-8 has a higher degree of physical integrity and serves as the better example of type.

Technical Area: 8
Building Number: 32
Original Function: Magazine
Current Function: Magazine
Date Constructed: 1950

Associated Theme: Radiographic Inspection
Property Type: Laboratory/Processing (2nd Tier)
Integrity: Excellent
Core: Yes
Eligibility: Eligible (Criterion A)

Buildings with same floorplan within TA: none


View of northeast side


View of southeast side

Architectural Description:
TA-8-32 is a one-story, rectangular-in-plan magazine building with an exterior measurement of 16 ft by 14 ft. The single interior room contains 168 ft^2 of usable floor space. The building is constructed with a reinforced concrete foundation and floor slab, and 1-ft-thick reinforced concrete walls. It has a reinforced concrete roof covered with a 3-ply built-up tar and gravel roofing system.

The north (front) wall is exposed while the remaining three walls and roof are covered with compacted earth. 1-ft-thick angled wing walls extend out from the magazine to a length of approximately 15 ft to the northwest and approximately 24 ft on the southwest. The wing walls serve as a retaining system for the surrounding compacted earth. In the event of an explosion, the compacted earth would provide additional blast protection by partially containing the explosion within the structure.

A single reinforced metal door is set within the face of the exposed wall, providing the only access into the magazine. The magazine is further equipped with a wall mounted light over the door, fire extinguisher, informational signage, and lightning rods. Extending out perpendicular to the face of the magazine is a 2-ft-10-in.-high concrete loading dock. 3-ft-wide concrete steps with a metal pipe rail accesses the loading dock from the concrete apron below.

Historical Background:
TA-8-32 has functioned as a magazine in support of radiographic inspection since its construction during the Early Cold War period.

Determination of Eligibility:
This building meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, the building

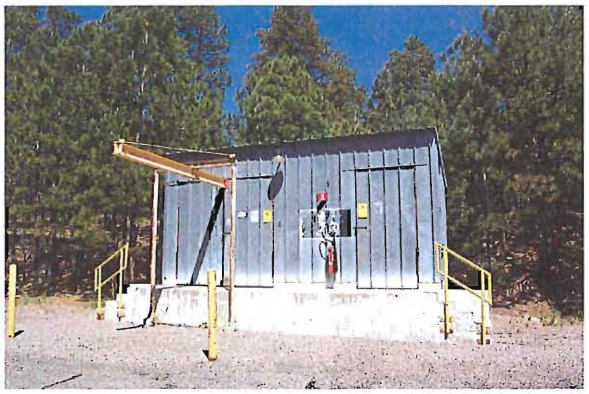
is eligible for inclusion on the Register as a significant property within TA-8. The building is significant under Criterion A due to its association with Cold War radiographic inspection in support of the Laboratory's nuclear weapons program.

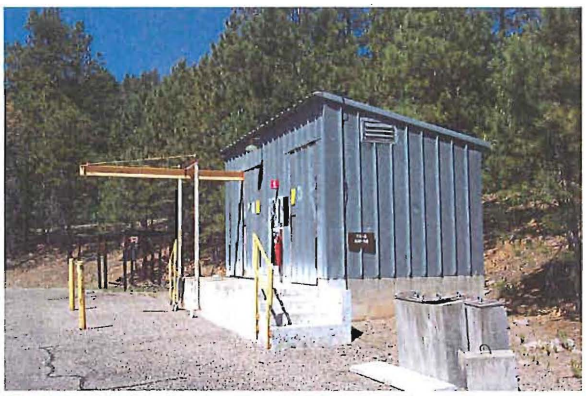
Technical Area: 8

Building Number: 65
Original Function: Source Storage
Current Function: Source Storage
Date Constructed: 1955

Associated Theme: Radiographic Inspection
Property Type: Support (1st Tier)
Integrity: Fair
Core: No
Eligibility: No

Buildings with same floorplan within TA: none


View of south side


Oblique view of south and east sides


Oblique view of north and west sides

Architectural Description:
TA-8-65 is a one-story, rectangular-in-plan building measuring 20 ft 8 in by 10 ft containing 171 ft^2 of usable floor space. The building has a raised concrete foundation and floor slab with steel frame walls covered with galvanized corrugated metal panels. The building's low-pitched shed roof is also covered with galvanized corrugated metal panels. A full-width dock, approximately 30 in. high, spans the entire front of the building. Concrete steps with metal pipe railings are located at either end of the dock. Access into the building is possible through a pair of oversized corrugated metal doors located at the west end of the dock and a single oversized corrugated metal door located at the east end. The west doors are also equipped with a jib crane extending out from the building above the doors. The building has one sign on the front.

Historical Background:
TA-8-65 was originally constructed to support operations at TA-8 and was not a key laboratory facility associated with radiographic inspection.

Determination of Eligibility:
This building does not qualify for listing on the National Register of Historic Places as a significant property within TA-8 because it is of secondary or minor importance, serves a purely support function, and does not adequately illustrate historical themes shaping the history of the Laboratory.

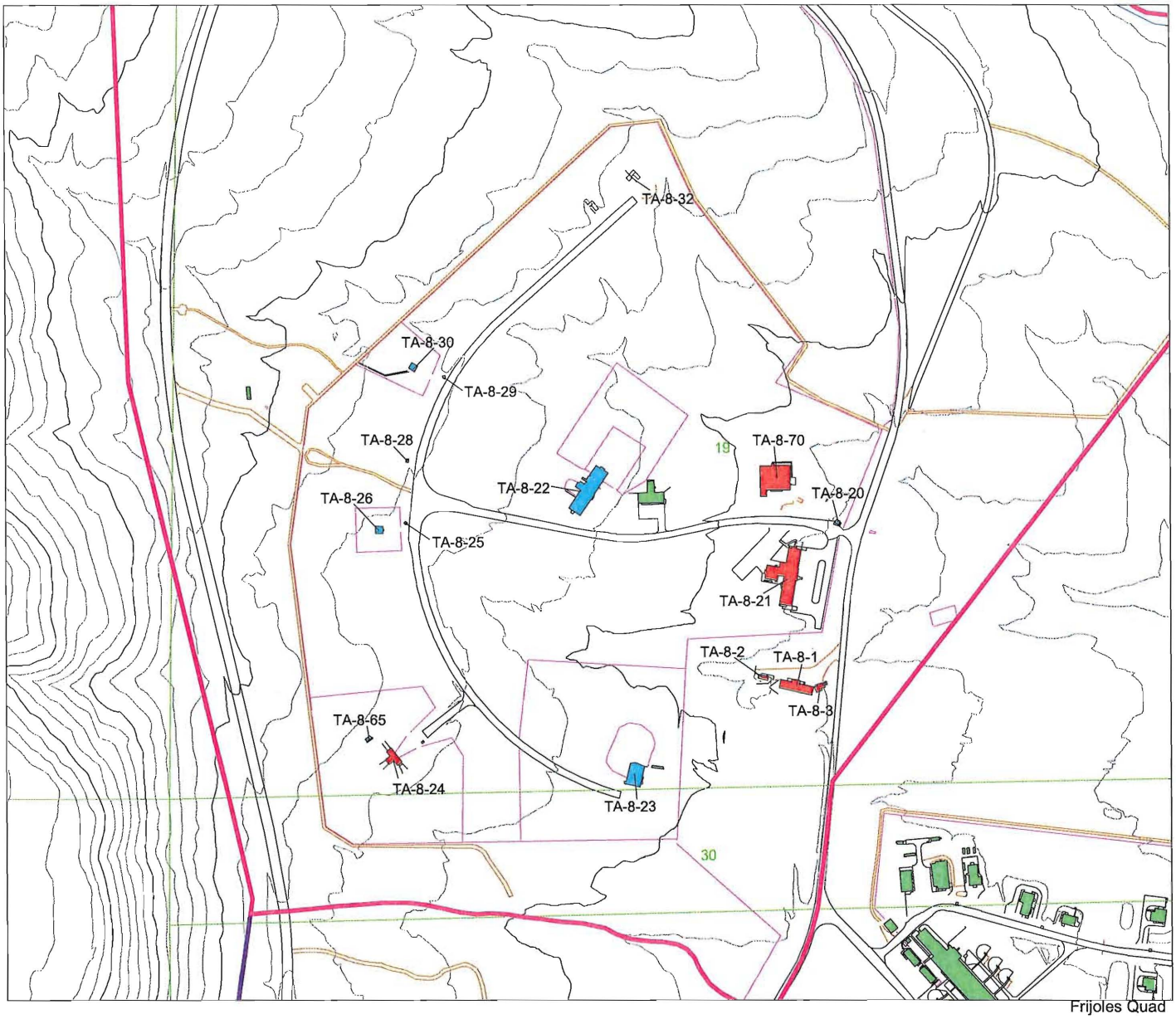
NATIONAL REGISTER ELIGIBILITY RECOMMENDATIONS

Properties Determined Eligible for the National Register of Historic Places

In 2003, 2004, and 2006, several historic property surveys were conducted at TA 8 (Map 3). Of the 10 properties recently evaluated for Register eligibility, 6 were determined eligible under Criterion A ("properties associated with events that have made a significant contribution to the broad patterns of our history"). Historically, these properties supported research, development, and testing in support of the nuclear weapons program during the Manhattan Project and the Cold War, from the 1940s to the early 1960s at LANL. Table 1 lists recently evaluated buildings located at TA-8 that are eligible for listing on the Register.

Table 1. Eligible TA-8 Properties (evaluated in this report)

Property Number	Original Use	Date	Associated Themes	Property Type	Integrity	Core
8-20	Guard Station	1950	Radiographic Inspection/Security	Security	Excellent	Y
8-22	Nondestructive Testing	1950	Radiographic Inspection	Lab/Processing (1st tier)	Good	Y
8-23	Betatron Building	1950	Radiographic Inspection	Lab/Processing (1st tier)	Good	Y
8-26	Laboratory Building	1950	Radiographic Inspection	Lab/Processing (2nd tier)	Good	Y
8-32	Magazine	1950	Radiographic Inspection	Lab/Processing (2nd tier)	Excellent	Y
Total Number of Eligible Properties	**5**					



Los Alamos
National Laboratory
Ecology and Air Quality Group
Environmental Protection Division

1:6500
200 0 200 400 600 Feet
90 0 90 180 Meters

N
W E
S

- Buildings Previously Declared Eligible
- Buildings Currently Being Evaluated
- Tech Area 8
- LANL Boundary
- Technical Areas
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- Lanl_contour1991_100_arc.shp
- Lanl_contour1991_020_arc.shp
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Fences
- Exempt Buildings/Structures

TA-8

Closeup

Map 3

Properties Determined Not Eligible for the National Register of Historic Places

Not all LANL properties constructed within the defined period of significance (1942-1963) qualify as significant properties. In some cases, a property is of secondary or minor importance and does not contribute to the understanding of nuclear weapons research and development during the Manhattan Project and Cold War eras. For example, some properties have served a purely support function and do not adequately illustrate the historical themes shaping the history of the Laboratory. In other cases, properties associated with significant LANL events have been modified to such an extent that the loss of physical integrity has impacted their status as Register-eligible properties. Additionally, some LANL properties belong to a series of nearly identical building designs, and only the best example of each building design is usually eligible for the Register.

Table 2 lists recently reviewed properties located at TA-8 that are not eligible or potentially eligible for listing on the Register.

Table 2. Non-Eligible TA-8 Properties (evaluated in this report)

Property Number	Original Use	Date	Associated Themes	Property Type	Integrity	Core
8-30	Laboratory Building	1950	Radiographic Inspection	Lab/Processing (2nd Tier)	Fair	Y
8-65	Source Storage	1955	Radiographic Inspection	Support (1st tier)	Fair	N
Total number of non-eligible properties	**2**					

Previously Reviewed Properties

Eleven properties at TA-8 have already been evaluated for historical significance; property descriptions and eligibility recommendations for these previously reviewed properties are included in earlier LANL reports (Garcia 1999, Garcia *et al.* 2005, McGehee *et al.* 2002, McGehee *et al.* 2003, and McGehee *et al.* 2006b). Table 3 lists previously reviewed properties located at TA-8.

Table 3. Previously Reviewed Properties

Property Number	Date	Core	Property Type	Integrity	Eligibility Status	Report
8-1	1943	Y	Lab/Processing (1st tier)	Good	Y	Sentinels of the Atomic Dawn: A Multiple Property Evaluation of the Remaining Manhattan Project Properties at Los Alamos (1942-1946)
8-2	1943	Y	Lab/Processing (1st tier)	Good	Y	Sentinels of the Atomic Dawn: A Multiple Property Evaluation of the Remaining Manhattan Project Properties at Los Alamos (1942-1946)

Property Number	Date	Core	Property Type	Integrity	Eligibility Status	Report
8-3	1943	Y	Lab/Processing (1st tier)	Good	Y	Sentinels of the Atomic Dawn: A Multiple Property Evaluation of the Remaining Manhattan Project Properties at Los Alamos (1942-1946)
8-21	1950	Y	Lab/Processing/Testing (1st tier) & Administration	Good	Y	TA-8-21 Roof Repairs
8-24 Demolished	1950	Y	Lab/Processing/Testing (1st tier)	Good	Y	ESA Division's 5-Year Plan: Consolidation and Revitalization at Technical Areas 3, 8, 11, and 16
8-25 Demolished	1950	N	Support (2nd Tier)	Good	N	Excerpt from August 2006 Draft of: From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-27 Demolished	1950	Y	Lab/Processing/Testing (2nd tier)	Good	Y	Decontamination and Decommissioning of Buildings TA-3-42, TA-8-27, TA-8-31, and TA-35-1
8-28 Demolished	1950	Y	Security	Good	Y	Excerpt from August 2006 Draft of: From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-29 Demolished	1950	N	Support (2nd Tier)	Good	N	Excerpt from August 2006 Draft of: From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-31 Demolished	1950	Y	Lab/Processing/Testing (1st tier)	Good	Y	Decontamination and Decommissioning of Buildings TA-3-42, TA-8-27, TA-8-31, and TA-35-1
8-70	1960	Y	Lab/Processing/Testing (1st tier)	Good	Y	ESA Division's 5-Year Plan: Consolidation and Revitalization at Technical Areas 3, 8, 11, and 16
Total Number of Previously Reviewed Properties	**11**					

Master Eligibility Summary Table for TA-8 Properties

Buildings in bold in Table 4 are candidates for permanent retention. These properties represent Los Alamos's most important contributions to the history of WWII located at TA-8.

Table 4. Eligible TA-8 Properties (evaluated in this report and previous reports)

Property Number	Date	Core	Property Type	Integrity	Report
8-1	1943	Y	Lab/Processing (1st tier)	Good	Sentinels of the Atomic Dawn: A Multiple Property Evaluation of the Remaining Manhattan Project Properties at Los Alamos (1942-1946)
8-2	1943	Y	Lab/Processing (1st tier)	Good	Sentinels of the Atomic Dawn: A Multiple Property Evaluation of the Remaining Manhattan Project Properties at Los Alamos (1942-1946)
8-3	1943	Y	Lab/Processing (1st tier)	Good	Sentinels of the Atomic Dawn: A Multiple Property Evaluation of the Remaining Manhattan Project Properties at Los Alamos (1942-1946)
8-20	1950	Y	Security	Excellent	This report - From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-21	1950	Y	Lab/Processing/Testing (1st tier) & Administration	Good	TA-8-21 Roof Repairs
8-22	1950	Y	Lab/Processing/Testing (1st tier)	Good	This report - From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-23	1950	Y	Lab/Processing/Testing (1st tier)	Good	This report - From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)

Property Number	Date	Core	Property Type	Integrity	Report
8-24 Demolished	1950	Y	Lab/Processing/Testing (1st tier)	Good	ESA Division's 5-Year Plan: Consolidation and Revitalization at Technical Areas 3, 8, 11, and 16
8-26	1950	Y	Lab/Processing/Testing (1st tier)	Good	This report - From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-27 Demolished	1950	Y	Lab/Processing/Testing (2nd tier)	Good	Decontamination and Decommissioning of Buildings TA-3-42, TA-8-27, TA-8-31, and TA-35-1
8-28 Demolished	1950	Y	Security	Good	This report - From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-31 Demolished	1950	Y	Lab/Processing/Testing (1st tier)	Good	Decontamination and Decommissioning of Buildings TA-3-42, TA-8-27, TA-8-31, and TA-35-1
8-32	1950	Y	Lab/Processing/Testing (2nd tier)	Excellent	This report - From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)
8-70	1960	Y	Lab/Processing/Testing (1st tier)	Good	ESA Division's 5-Year Plan: Consolidation and Revitalization at Technical Areas 3, 8, 11, and 16
Total Number of Eligible Properties for TA-8	**14**				

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APPENDIX A

Historic Building Inventory Forms with Selected Photographs and Building Drawings for all Properties at TA-8

LANL TA- Building # 08-0001

Camera 949790 & 984244

Frame #s P0002430-P0002455, P0002460-P0002462, P0002475-P0002477, & DCP_4986 thru DCP_4999

Surveyor(s) K. Garcia, J. Ronquillo

Date 3/4/2008

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Nam Gun Site Laboratory & Shop Bldg. UTMs easting 377974 northing 3968786 zone 13

Legal Description: Map Guaje Mountain Quad tnsp N range E sec N/A

Current Use/ Function Building is currently unoccupied Original Use/ Function Laboratory and Shop

Date (estimated) 1943 Date (actual) 1943 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction Wood platform # of Stories 1

Foundation Reinforced concrete slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc) Unpainted concrete

Exterior Features (docks, speakers, lights, signs, etc) Loading dock and exterior lighting.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☑

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition There is a 1948 addition of a roof over the concrete loading dock and an enclosed storage room along the north face of the builiding from the loading dock to just shy of the tower.

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Reinforced concrete/earthen berm

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Concrete/earthen berm

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type

# of Each Window Type/ Comments Exterior doors are wood panel with two-over-two window lights.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☑ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☑ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-u ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: Exterior equipment door is an overhead door serviced by ceiling mounted rails.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior Most all of the interior finishes are painted cast concrete.

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc) Originallly, the interior contained five rooms, numbered east to west, and the tower structure, which was referred to as Room 6.

Degree of Remodeling Moderate

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s TA-8-2 and TA-8-3.

Integrity Good

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☑ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments The Gun Site (TA-8-1, -2, & -3) remain significantly intact, with a high level of integrity. The site is currently dominated by the two

concrete retaining walls, which also serve as the façade of the three underground structures.

Architectural Features (elevations) Reinforced concrete bunker built into a ravine with concrete loading dock and enclosed wooded storage room along the exposed (north) face of the building.

Total sq ft 3,200 Gross; Approx **Architect/ Builder** W.C. Kruger - Architects & Associates

Alterations Interior spaces were redifined - several rooms were divided into two rooms and the periscope tower was removed.

List of Drawings (Cntrl + Enter for para break)

ENG-C 12307
TA-8-1
Anchor Ranch West
Building No. AW-1 (A-1) [TA-8-1]
May 30, 1943

ENG-C 12317
TA-8-1
Building No. A-1 (AW-1) [TA-8-1]
Foundation & Floor Plan: Elevation, Sections & Details
October 1943

ENG4-C 493
TA-8-1
Bldg # AW-1 Anchor Ranch TA-8 [TA-8-1]
Alter: Rm. 3 & Install Ventilating System
October 7, 1948

ENG4-C 494
TA-8-1
TA-8, Bldg A-1 [TA-8-1]
Anchor Ranch
Const. - Storage Shed
October 14, 1948

ENG4-416
TA-8-1
Alterations in Bldg (A-1) AW-1 [TA-8-1]
Anchor Ranch
September 12, 1947

ENG4-C 576
TA-8-1
Enclose Loading Dock
Bldg. (A-1) AW-1, Anchor Ranch [TA-8-1]
June 19, 1949

ENG-R2610
TA-8-1
Lab. & Shop Bldg.
Floor Plan
TA-8 Bldg. AW-1 [TA-8-1]
August 25, 1983



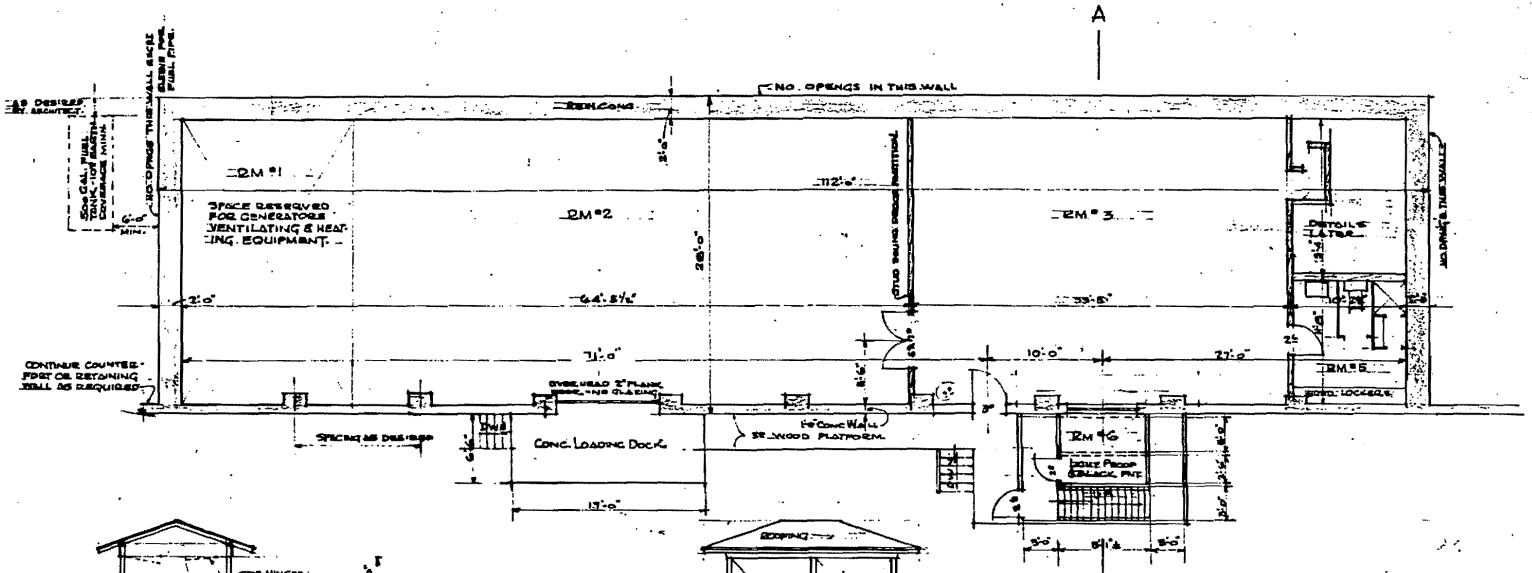
TA-8-1 North Elevation



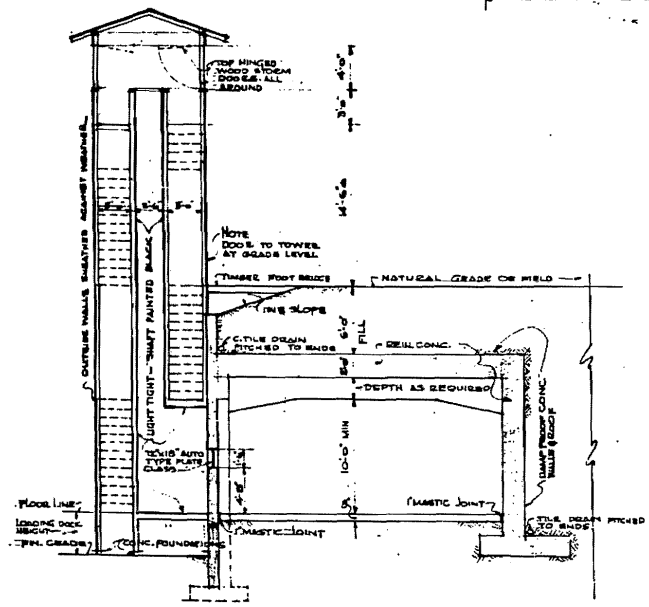
TA-8-1 North Elevation



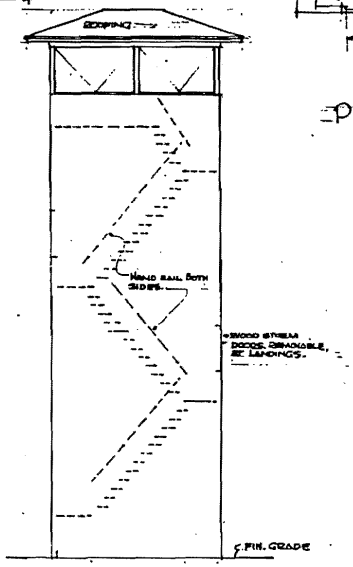
TA-8-1 North and West Elevation



PLAN 1/8" SCALE.



SECTION AA THRU TOWER & SHELTER
SCALE 1/8"=1'-0"



ELEVATION OF TOWER
SCALE 1/8"=1'-0"

GENERAL NOTES

ILLUMINATION ROOMS #2 & 3 - 35 FOOT CANDLES; 3Φ 230V POWER PROVIDED IN OVERHEAD BUSS SYSTEM. OPENINGS REQUIRED FOR VENTILATION INTAKES, ETC. PLUMBING FLUES WILL BE THRU 12" CONC. WALL ONLY. FOOTINGS FOR ALL MECHANICAL EQUIP. SHALL BE ISOLATED. CONC. FLOOR ISOLATED FROM CONC. WALLS BY MASTIC JOINT. NO WINDOWS IN ANY WALLS OF CONC. BLOCK EXCEPT AS SHOWN OVER COUNTER IN RM 5 TO RM #6.

TA-8
ANCHOR RANCH, WEST
BUILDING NO. AW-1 (A-1)
LOS ALAMOS PROJECT
SCALE AS SHOWN
MAY 30, 1943

1 REVISED TITLE 2-3-53 WJG

DRAWING NO 25-6-01

L.A.S.L. DWG. NO. ENG-C 12307

9122

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY

REFERENCE DRAWINGS

GENERAL NOTES

LEAD LINED TUB DETAILS

PLAN OF DARK ROOM

WORK BENCH - DARK ROOM

FLOOR PLAN

ELEVATION "A"

SOUNDPROOF PARTITION DETAIL

LIGHTPROOF DOOR DETAILS

FOUNDATION PLAN

DETAIL A

SECTION A A

SECTION THRU ℄ OF GIRDER

PART ELEVATION OF FILL SIDE OF WALL

FAN PLATFORM DETAIL

OVERHEAD DOOR DETAILS

SECTION "C C"

SECTION "B B"

TYPICAL STAIR DETAIL

DETAIL B

COLUMN & FOOTING DETAILS

TA-6 — Anchor Post — Bldg No. ARR-18

LOS ALAMOS PROJECT — NEW MEXICO
RECORD DRAWING

BUILDING NO. (A.R.R.)
FOUNDATION & FLOOR PLAN; ELEVATION, SECTIONS & DETAILS

W. C. KRUGER - ARCHITECT & ASSOCIATES
R. D. RUBLE & LLOYD K. SHANK - ENGINEERS

DRAWN R-A-L-1

U. S. ENGINEER OFFICE, ALBUQUERQUE, N.M. DEC. 1943

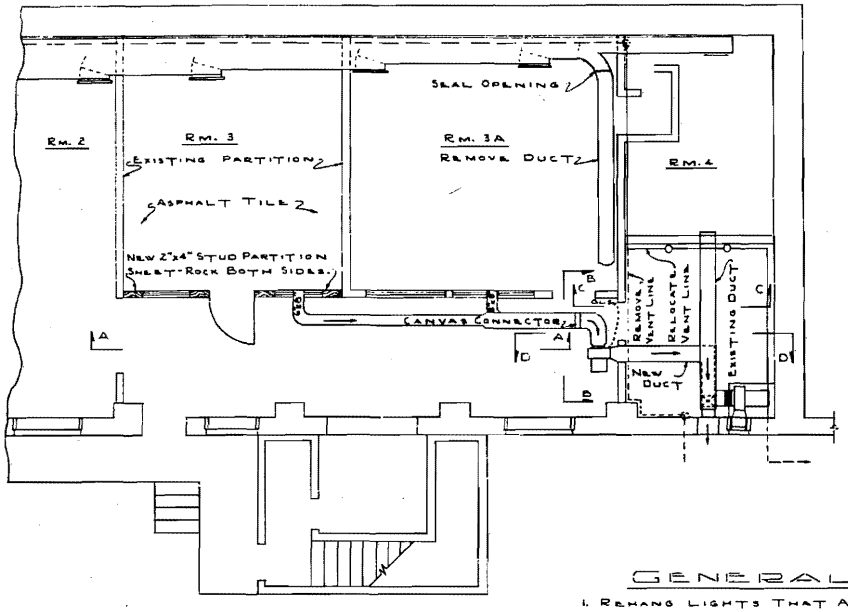
APPROVAL RECOMMENDED — APPROVED

ARCHITECT & ENGINEER — DISTRICT ENGINEER

SCALES — AS NOTED

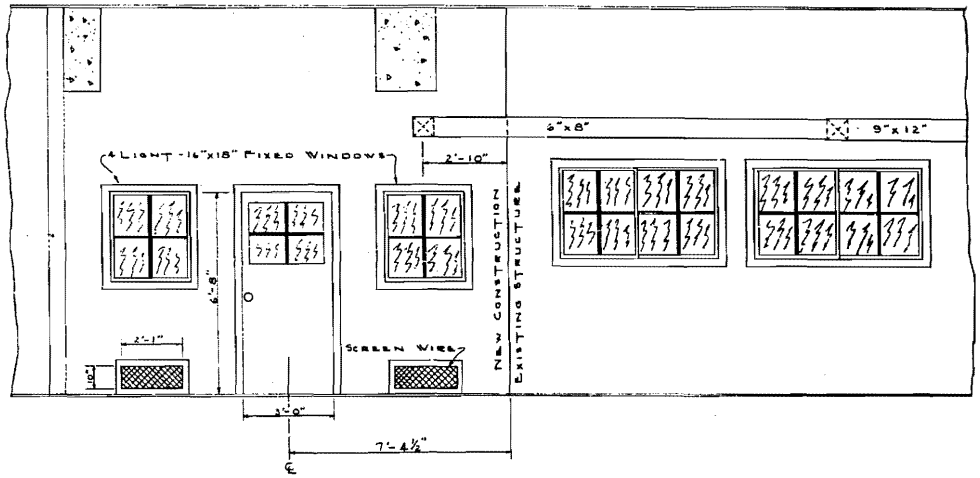
CORPS OF ENGINEERS FILE NO. — ORIG. SUPT. FILE NO.

U.A.&L. DWG. NO. ENG-C 12317



PLAN

SCALE - ½" = 1'-0"



SECTION "A"-"A"

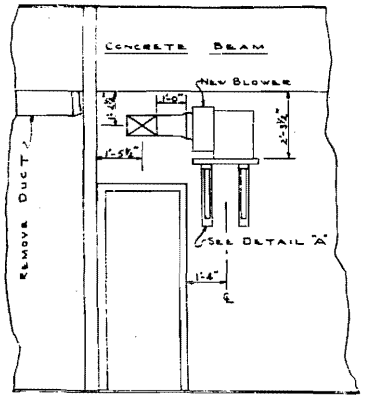
SCALE - ½" = 1'-0"

GENERAL NOTES:

1. REHANG LIGHTS THAT ARE IN LINE WITH NEW PARTITION IN NEW ROOM.

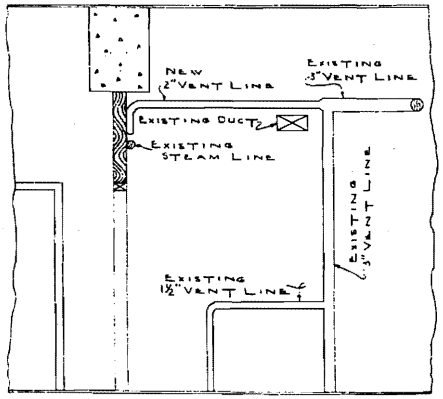
RECORD DRAWING--AS BUILT CONSTRUCTION

SUBMITTED:	RECOMMENDED:	APPROVED:
FOR THE LAB. DIR.	A.E.C.	A.E.C.



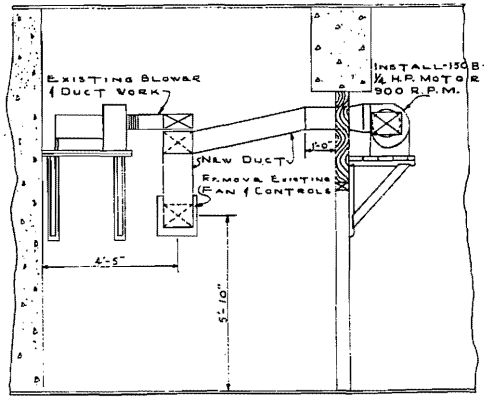
SECTION "B"-"B"

SCALE - ½" = 1'-0"



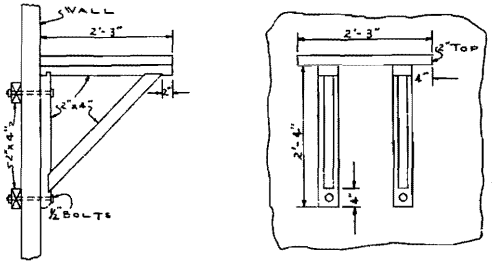
SECTION "C"-"C"

SCALE - ½" = 1'-0"



SECTION "D"-"D"

SCALE - ½" = 1'-0"



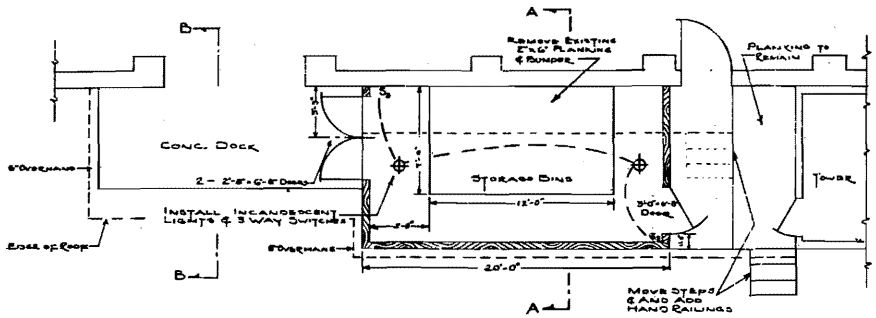
DETAIL "A"

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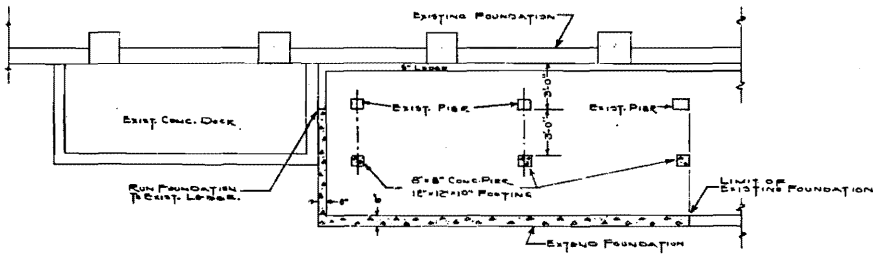
THIS JOB MUST BE INSPECTED AND APPROVED
BY STALLINGS
INSPECTOR

this Required no revision, as built status, VOJ.
Was Eng & M-29 Rev. 3-13-58 W.R.

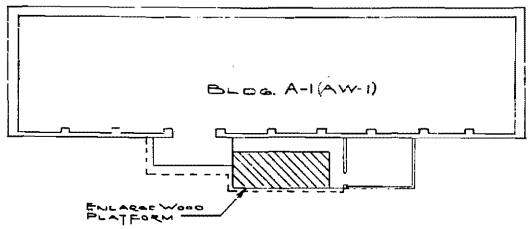
AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY	
	DEPARTMENT OF ENGINEERING — CONSTRUCTION & MAINTENANCE GROUP	
HEALTH	ALTER: RM. 3 & INSTALL VENTILATING SYSTEM. BLDG. 1 AND ANCHOR RANCH. T.A.-8.	
SAFETY		
FIRE PR.		
C. W.		
HOUSE		JO. 163209 GR. GMX-2-6
SEC.	SCALE	DRAWN BY: F. L. G. MILLER — DATE: 30-7-48 — DWG. NO
REV. 1 Corr. W.R.	AS NOTED	CHKD. BY: — DATE: 8-5-48 ENG. C 598
		APP'D. BY: — DATE: 8-16-48



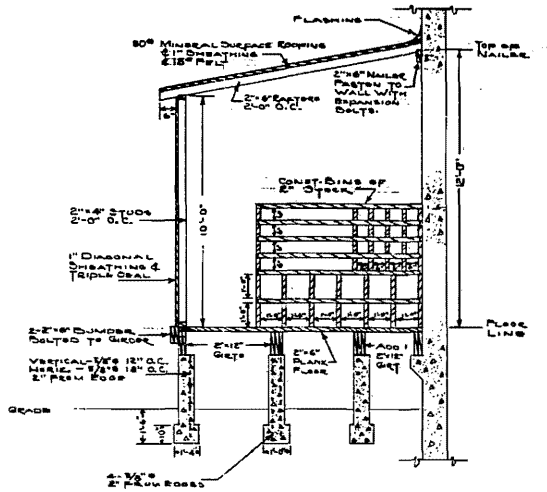
FLOOR PLAN



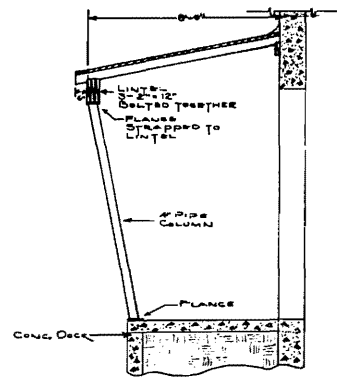
FOUNDATION PLAN



LOCATION PLAN
BLDG. A-1 (AW-1) ANCHOR RANCH TA-8



SECTION "A-A"



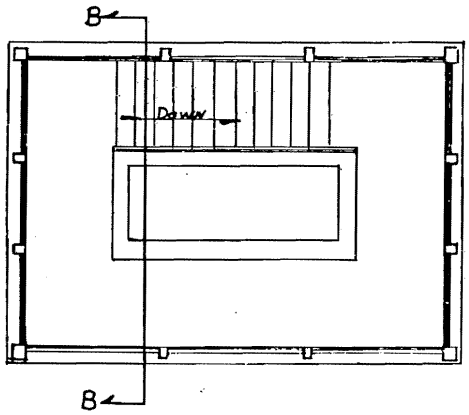
SECTION "B-B"

THIS JOB MUST BE INSPECTED AND APPROVED
BY STALLINGS INSPECTOR

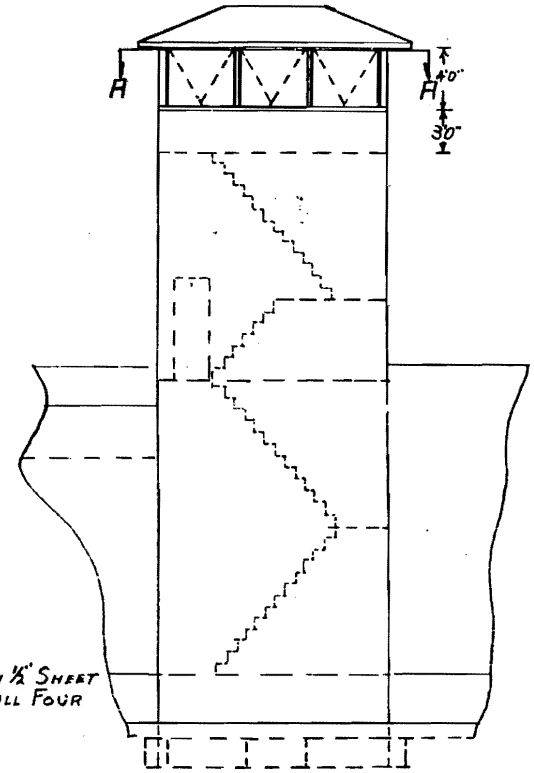
7/31/53 Required no revision, as built status W.O.J.
Was Eng. 6M-32 Rev. 3-13-50 W.R.

RECORD DRAWING—AS BUILT CONSTRUCTION		
SUBMITTED:	RECOMMENDED:	APPROVED:
FOR THE LAB. DIR.	A.E.C.	A.E.C.

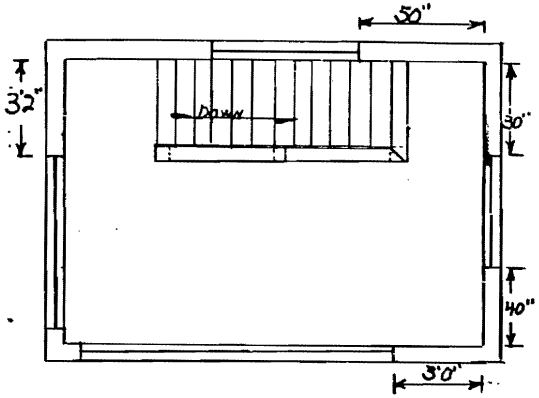
AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING — CONSTRUCTION & MAINTENANCE GROUP	
HEATG SANITY ELECTRL CARPN PROC.	CONST.- STORAGE SHED BLDG. A-1 (AW-1) ANCHOR RANCH TA-8	
SEC.	JO 169800	Ge-GMR-2-05
REVISED AND REDRAWN	SCALE:	DRAWN BY: B.P.M. DATE: 10-14-48 DWG. NO.
REV. 1 GMR-2 W.C.L.		CHKD. BY: C.S. DATE: 12-15-48 ENG.
		APPVD. BY: DATE: 12-20-48 C494



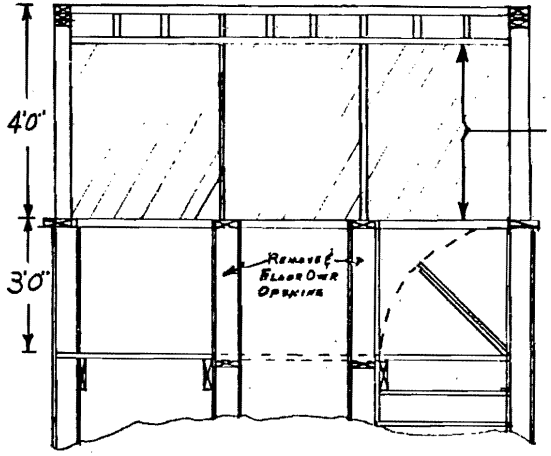
SECTION A-A
SCALE ¼"=1'-0"



NORTH ELEVATION
SCALE ⅛"=1'-0"



FLOOR PLAN
SCALE ¼"=1'0"



SECTION B-B
SCALE ⅜"=1'-0"

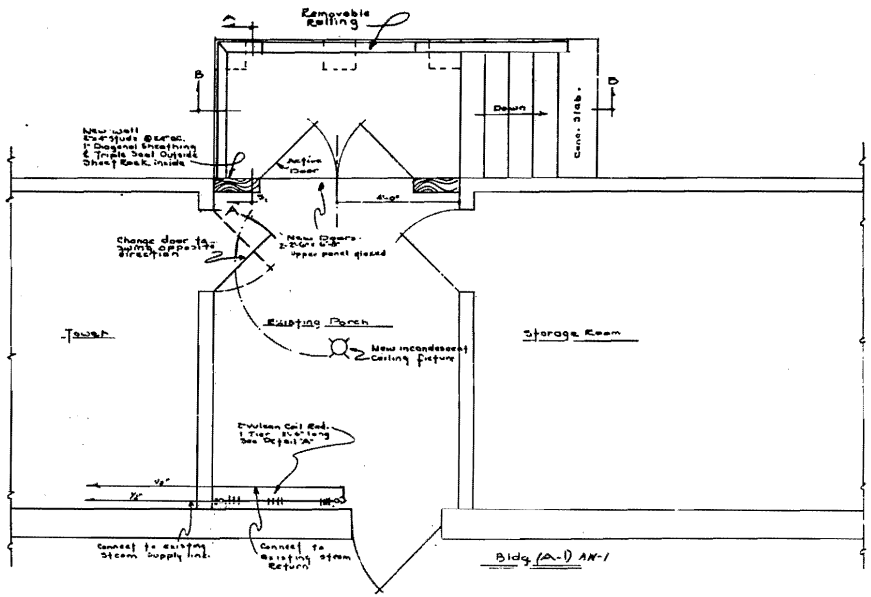
RECORD DRAWING--AS BUILT CONSTRUCTION		
SUBMITTED:	RECOMMENDED:	APPROVED:
FOR THE LAB. DIR.	A.E.C.	A.E.C.

2 7/31/53 Required no revision, as built status. WO)
1 WAS ASM-337 (REV. 7-28-50) C.H.J.

AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	F.R.P.
PROCUREMENT	
COMMUNICATIONS	
SECURITY	

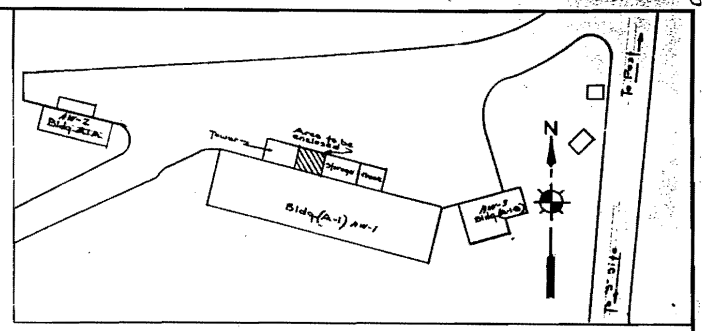
ALTERATIONS IN BLDG. (A-1) ANCHOR RANCH JO 136206 Gr X-7

SCALE	DWG. C.S.	DATE 9-12-47	TE H MAINTENANCE GROUP	SKETCH No. ENG 4-416
	CKD.	DATE		
	APPVD.	DATE 9-12-47		



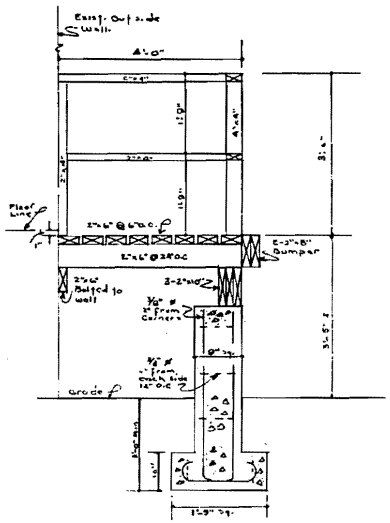
PLAN

Scale — ¼"=1'-0"

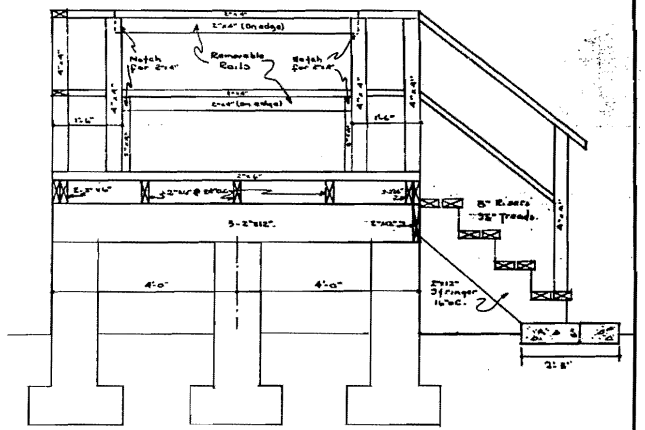


LOCATION PLAN

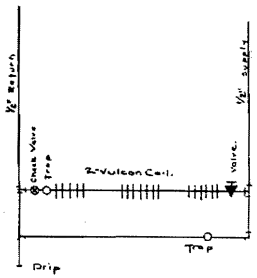
Bldg (A-1) Anchor West TA-8



SECTION 'A-A'



SECTION 'B-B'



DETAIL 'A'

Note

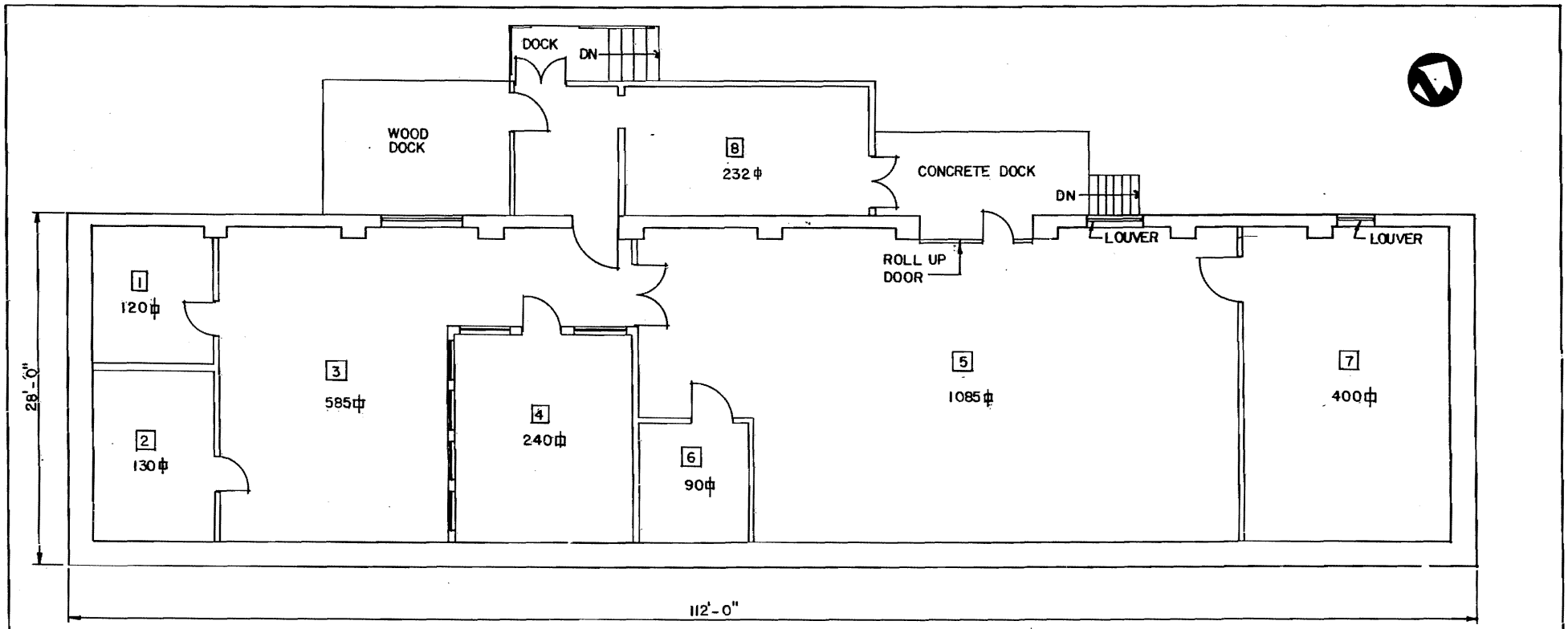
1. Paint all new construction to match existing
2. Cover Steam lines with 1" Air Cell insulation

THIS JOB MUST BE INSPECTED AND APPROVED

BY_____
INSPECTOR

Δ Was Eng 4M-128 Rev. 3-14-50 W.E.

	AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING — CONSTRUCTION & MAINTENANCE GROUP			
	HEALTH SAFETY FIRE PR. COMM. PROC.	ENCLOSE LOADING DOCK BLDG. (A-1) ANCHOR RANCH TA8 JO 189439 GR. GMX2			
	SEC.	SCALE	DRAWN BY: EFM	DATE: 6-19-49	DWG. NO.
REV. 1	GMX-2 M/B GMX Jwb	NOTED	CHKD. BY: CS DAR APPVD. BY: [illegible]	DATE: DATE: 6-22-49	ENG. 4 C 576



1/8"=1'-0"

0' 4' 8' 16'

GRAPHIC SCALE

BLDG. TOTAL 2882 S.F.

MF

REV.	DATE	REVISION	BY	CK'D.	APP.
1	8-25-83	REDRAWN & REVISED TO STATUS OF AUGUST 25, 1983	H&N	LT	DP

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

LAB. & SHOP BLDG.
FLOOR PLAN

SEC. CLASSIFICATION: CLASS. U
REVIEWER: Shadrick
DATE: 9-6-84

BLDG. AW-1 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dawn Russ	[illegible]

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	Humble H&N	08-25-83	1 OF 1	ENG-R2610

9/30/84

2610

LANL TA- Building # 08-0002

Camera 949790

Frame #s P0002455-P0002458, P0002463 & P0002477

Surveyor(s) K. Garcia, J. Ronquillo

Date 3/4/2008

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Nam Gun Site Shop & Storage Bldg. UTMs easting 377992 northing 3969029 zone 13

Legal Description: Map Guaje Mountain Quad tnsp N range E sec N/A

Current Use/ Function Vacant Original Use/ Function Shop and Storage

Date (estimated) 1943 Date (actual) 1943 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction Reinforced concrete with earthen berm on the south and west elevations. # of Stories 1

Foundation Reinforced concrete slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc) Unpainted concrete

Exterior Features (docks, speakers, lights, signs, etc) Two sets of double doors on the north elevation. A concrete retaining wall to the west connects to the building and creates the end of the drive pad in front of the group of buildings (TA-8-1, -2, & -3).

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☑ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition A #250 American Blower and corresponding exhaust duct and hood were installed on the fill over the roof of the building.

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Reinforced concrete and earthen berm

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Concrete and earthen berm

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type

# of Each Window Type/ Comments No windows except the light panels in one set of the exterior double doors.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-u ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 2 sets of double doors

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Moderate

Condition Excellent ☐ Good ☐ Fair ☑ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☑

If yes, list building names and #s TA-8-1 and TA-8-3.

Integrity Good

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☑ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐

Nuclear Weapon Design and Testing ☑

Nuclear Propulsion ☐

Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐

Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations) Concrete loading dock on the east side of the building.

Total sq ft 280 Gross **Architect/ Builder** W.C. Kruger - Architects & Associates

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 15015
TA-8-2
Building No. 1-A (AW-2)
Deluge System Layout
June 1943

ENG-C 12321
TA-8-2
Building No. (A-1-A) AW-2
Plans & Sections
October 1943

ENG-C 12322
TA-8-2
Building No. 1A (AW-2)
Heating and Deluge System
Layouts
October 1943

ENG4-422
TA-8-2
Ventilating System for Bldg. (A-1-A) (AW-2)
Anchor Ranch
September 18, 1947

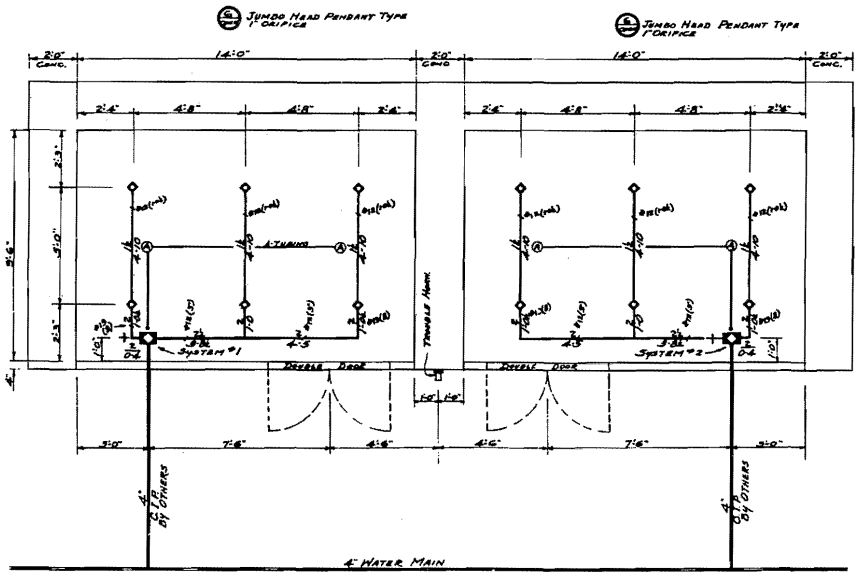
ENG-R2611
TA-8-2
TA-8, Building AW-2
Storage Building
Floor Plan
August 24, 1983



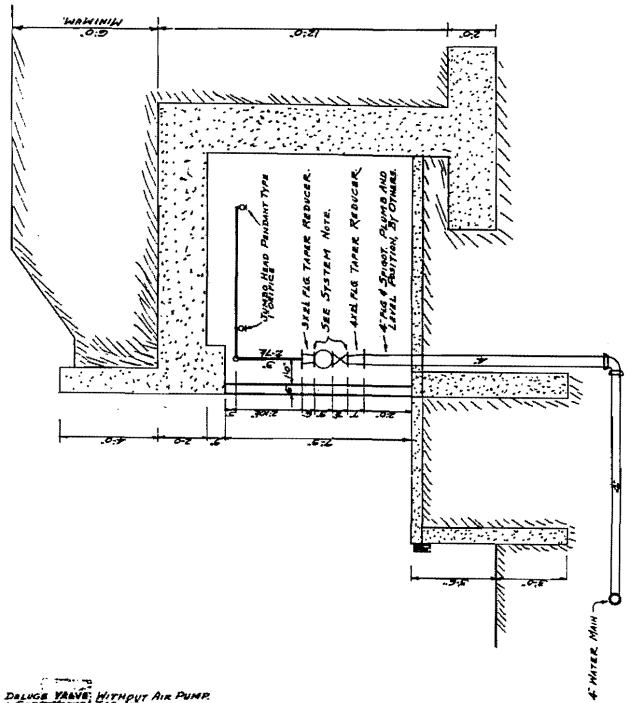
TA-8-2 East and North Elevations

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



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



SECTION "A-A"
SCALE: 1/8" = 1'-0"

NOTE:
ALL ELECTRIC EQUIPMENT PERTAINING TO SPRINKLER SYSTEM TO BE EXPLOSION PROOF
NO SPECIAL PIPING, FITTINGS, HEADS AND HANGERS WILL BE INSTALLED IN THIS BUILDING.
ONE TROUBLE HORN AS SHOWN FOR TWO SYSTEMS.
ONE POST INDICATOR GATE VALVES TO BE SUPERVISED.
ONE HYDRAULIC (32-150) PUMP TO BE INSTALLED TO SUPPLY BOTH SYSTEMS
NO FIRE ALARM GONG TO BE INSTALLED

SYSTEM NOTE:
System #1
1-2½" Supertex Deluge Valve Without Air Pump
1-2½" Flg. O.S.&Y. Gate Valve Tab "A" With Circuit Closer For Supervision
System #2
1-2½" Supertex Deluge Valve With Air Pump (32-150 (5) HP 75 Supply Both Systems)
1-2½" Flg. O.S.&Y. Gate Valve Tab "A" With Circuit Closer For Supervision.

HEAT ACTUATED DEVICE SUMMARY

System #		Marked "A"
" #1	2	" "A"
" #2	2	" "A"
	4	Total

BY	DATE	CHARACTER REVISIONS	APPROVED

LOS ALAMOS PROJECT- NEW MEXICO

BUILDING NO. 14 (A.R.R.) [illegible]
DELUGE SYSTEM LAYOUT

W. C. KRUGER - ARCHITECT & ASSOCIATES
R.O. RUBLE & LLOYD W. SHANK-ENGINEERS

SUBMITTED

SHEET NO. X-AS-2

U.S. ENGINEER OFFICE ALBUQUERQUE N.M. JUNE 1943

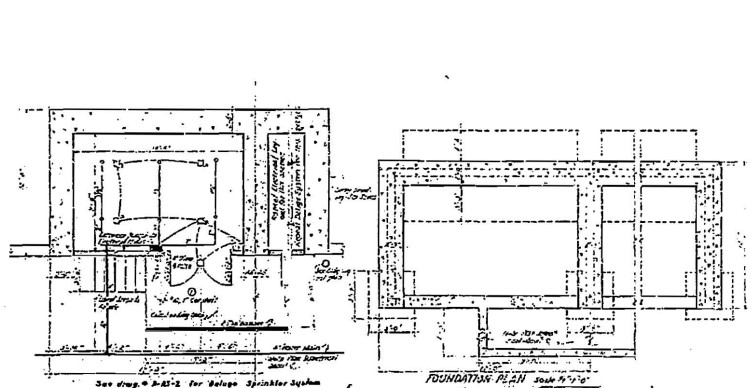
APPROVAL RECOMMENDED APPROVED

ARCHITECT-ENGINEER MAJOR CORPS OF ENGINEERS AREA ENGINEER

DR. TR. CH. SCALE AS NOTED C.E. FILE NO. A.E.W.O.R. FILE NO.

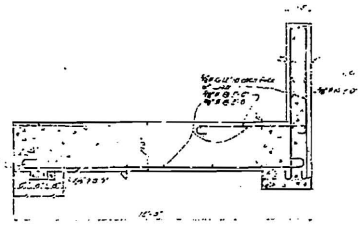
L.A.S.L. DWG. NO. ENG-C 15015

7094

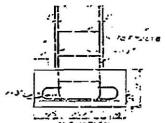


FLOOR PLAN AND ELECTRICAL

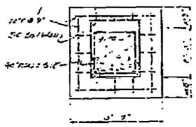
FOUNDATION PLAN



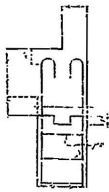
CROSS SECTION OF ROOF SLAB



ELEVATION



PLAN

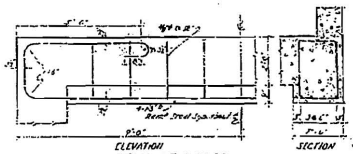


DETAIL AT TOP OF COLUMN

DETAIL OF COLUMNS IN FRONT CORNERS

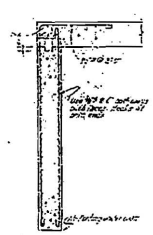
GENERAL NOTES

ELECTRICAL NOTES

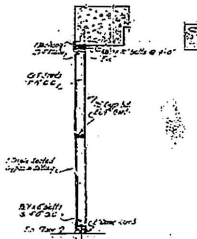


ELEVATION
DETAIL OF GIRDER

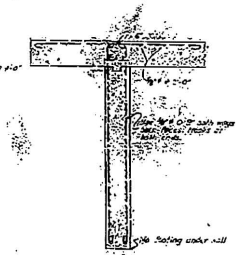
SECTION



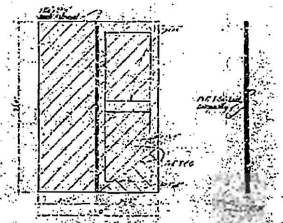
END WALL DETAIL



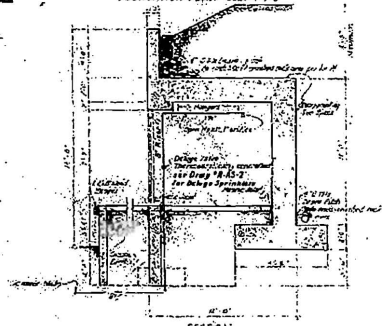
SECTION THRU FRAME WALL



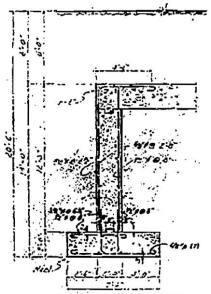
INTERIOR WALL



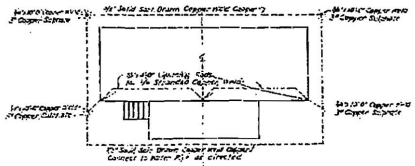
DOOR DETAILS



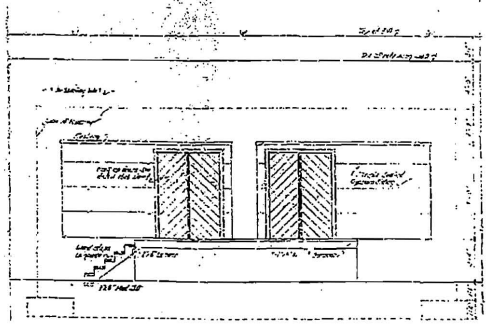
SECTION



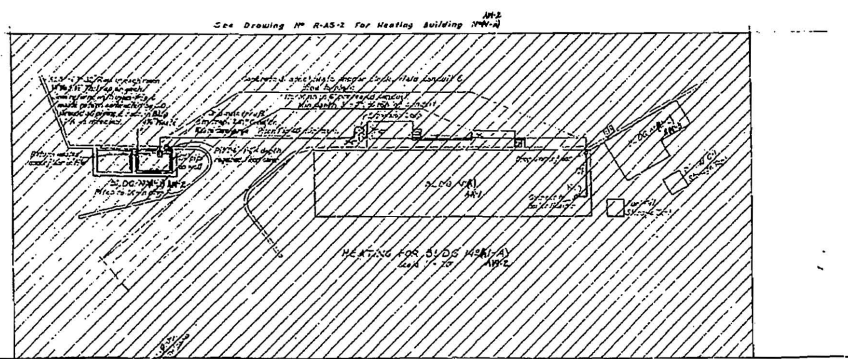
REAR WALL SECTION



PLAN OF LIGHTNING PROTECTION
No Scale



ELEVATION



HEATING FOR BLDG NO. A(A)

TA-G-ANCHOR NEST-BLDG NO. ANC-2

LOS ALAMOS PROJECT- NEW MEXICO
RECORD DRAWINGS-

BUILDING NO. A(A.R.R.)
PLANS & SECTIONS

W.C. KRUGER- ARCHITECT & ASSOCIATES
R.D. RUBLE & LLOYD W. BLANK-ENGINEERS

SUBMITTED
DRAWING NO. R-AS-1

U.S. ENGINEER OFFICE, ALBUQUERQUE, N.M. OCT., 1943

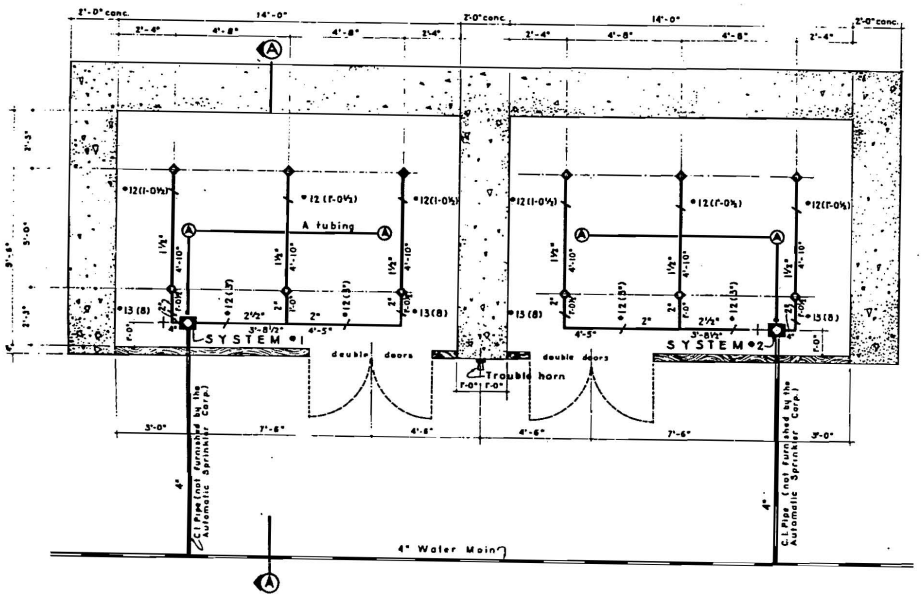
APPROVAL RECOMMENDED
APPROVED

CHARACTER OF REVISIONS
APPROVED

L.A.S.L. DWG. NO. ENG-C 12321

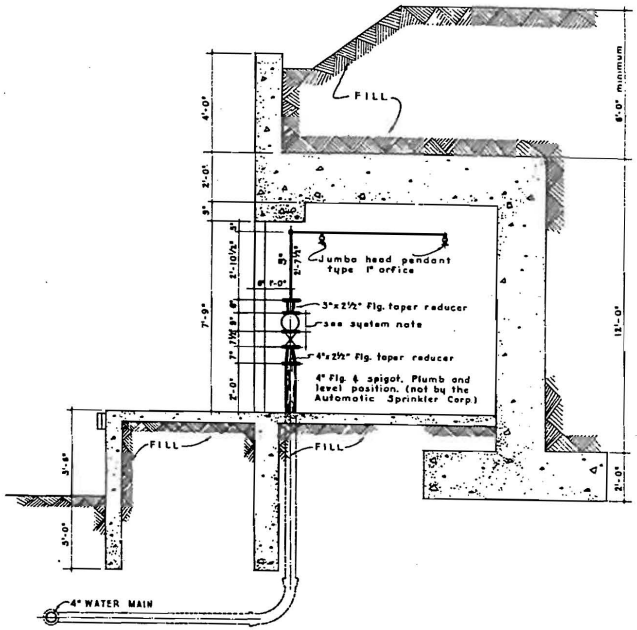
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



DELUGE SPRINKLER SYSTEM FLOOR PLAN

Scale 1/2" = 1'-0"



CROSS SECTION "A-A"

Scale 1/2" = 1'-0"

GENERAL NOTES

All electric equipment pertaining to sprinkler system are explosion proof.

No special piping, fittings, heads or hangers are installed in this building.

One trouble horn as shown for two systems.

Main control gate valves to be supervised.

One hydraulic 120-150 pump installed to supply both systems.

HEAT ACTUATED DEVICE SUMMARY

SYSTEM No 1

2 marked "A" (see floor plan)

SYSTEM No 2

2 marked "A" (see floor plan)

4 total

SYSTEM NOTES

SYSTEM No 1

1-2½" Suprotex Deluge Valve without air pump.
1-2½" Flanged O.S.&Y. gate valve with 3/4" tap with circuit closer for supervision.

SYSTEM No 2

1-2½" Suprotex Deluge Valve with air pump.
120-150 pump to supply both systems.
1-2½" Flanged O.S.&Y. gate valve tap 3/4", with circuit closer for supervision.

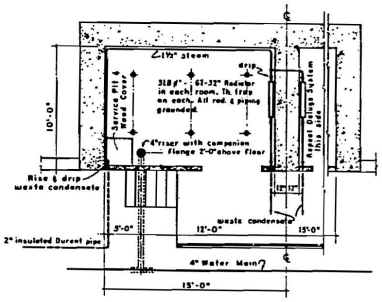
SPRINKLER HEADS

SYSTEM No 1

6 open. Jumbo head pendant type, 1" orifice.

SYSTEM No 2

8 open. Jumbo head pendant type, 1" orifice.



FLOOR PLAN - HEATING

SYMMETRICAL ABOUT CENTER LINE

Scale 1/4" = 1'-0"

NO.	DATE	CHARACTER REVISIONS	APPROVED

LOS ALAMOS PROJECT - NEW MEXICO
RECORD DRAWING

BUILDING NO. 1A (ARR)
HEATING & DELUGE SYSTEM LAYOUTS

W. C. KRUGER - ARCHITECT & ASSOCIATES
R. O. RUBLE - ENGINEER

SHEET NO. R-AS-2

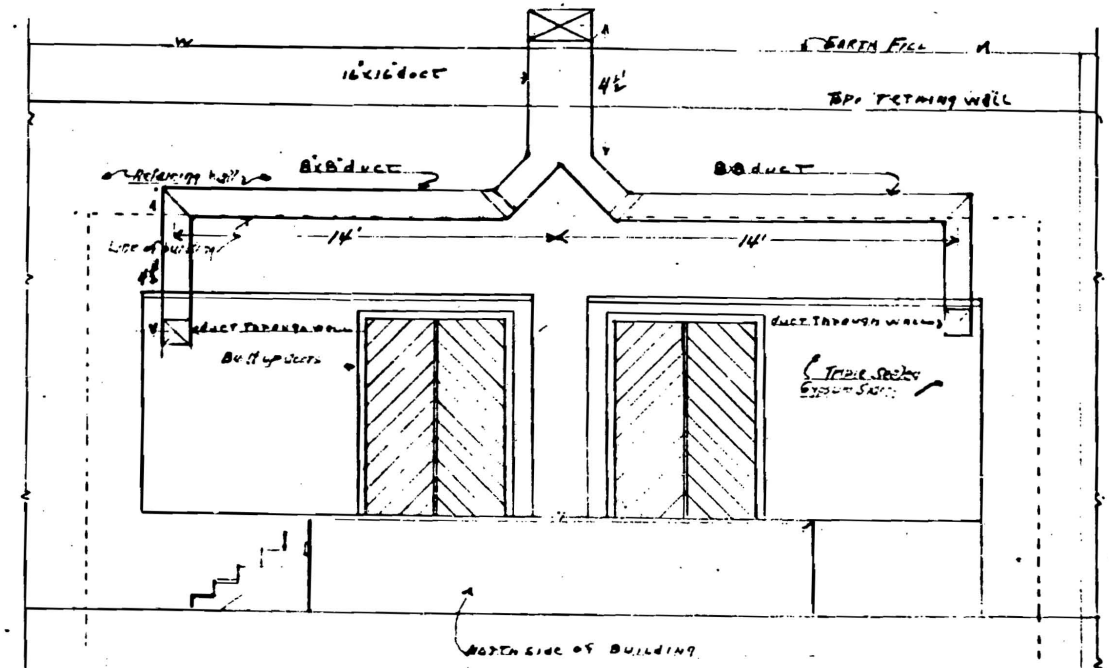
U.S. ENGINEER OFFICE ALBUQUERQUE N. M. OCT. 1943

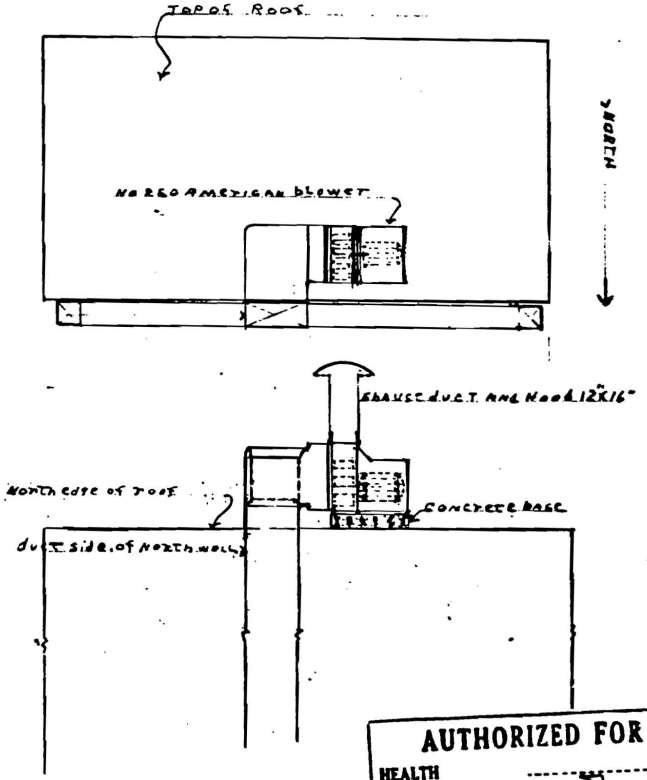
APPROVAL RECOMMENDED — ARCHITECT - ENGINEER
APPROVED — MAJOR, CORPS OF ENGINEERS, USE ENGINEER

DR. & TR. BY: DR. PVC.
SCALE: AS NOTED
G.C.E. FILE NO.
ALB. DIST. FILE NO.

L.A.S.L. DWG. NO. ENG-C 12322

2015





INSTALL #250 AMERKAN BLOWER ON FILL OVER ROOF OF BLDG A-1-A
ANCHOR RANCH. INSTALL DUCT WORK AS SHOWN.

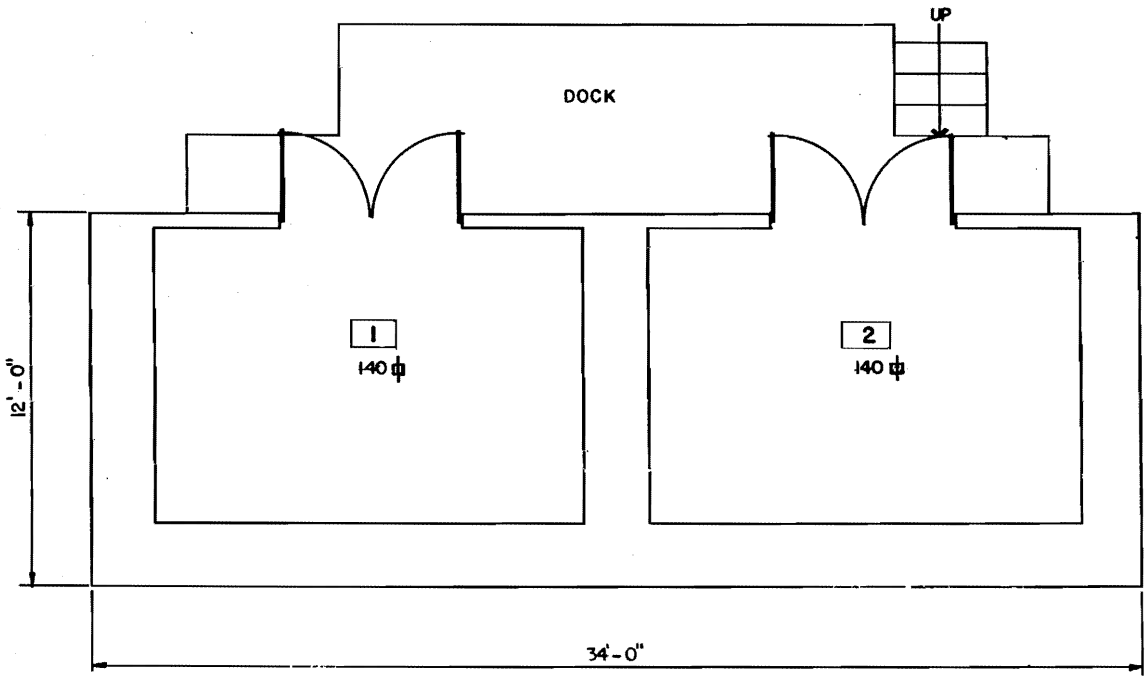
AUTHORIZED FOR	
HEALTH	
SAFETY ✓	
FIRE PROT. ✓	F.P.P.
PROCUREMENT	
COMMUNICATIONS	
SECURITY	

RECORD DRAWING--AS BUILT CONSTRUCTION		
SUBMITTED:	RECOMMENDED:	APPROVED:
FOR THE LAB. DIR.	A.E.C.	A.E.C.

2 7/8/63 Required no revision, as built status. IVQ.
I WAS A5M-342 (REV. 7-29-50) C.M.J.

VENTILATING SYSTEM FOR BLDG (A-1-A) ANCHOR RANCH JO 136909 G

SCALE	DWG F.C.M.	DATE 9-17-47	MAINTENANCE GROUP	SKETCH No. ENG-482
None	CKD.	DATE		
	APPVD. [illegible]	DATE 9-18-47		



MF

REV.	DATE	REVISION	BY	CKD.	APP.
1	8-24-83	REDRAWN & REVISED TO STATUS OF AUGUST 24, 1983	H&N	EF	DP

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

STORAGE BLDG.
FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER Shadrick
DATE 9-6-84

BLDG. AW-2 TA-8

1/4"=1'-0"
0' 2' 4' 8'
GRAPHIC SCALE

BLDG. TOTAL 280 S.F.

SUBMITTED	RECOMMENDED	APPROVED
G. Trujillo	Donna Price	W. F. Edwards

DRAWN H&N
CHECKED Humble H&N
DATE 08-24-83
SHEET NO. 1 OF 1
DRAWING NO. ENG-R2611

TO VAULT 9/6/84

LANL TA- Building # 08-0003

Camera 949790

Frame #s P0002462, P0002464-P0002472 & DCP_4986 thru DCP_4999

Surveyor(s) K. Garcia, J. Ronquillo

Date 3/4/2008

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Nam Gun Site Laboratory Bldg.; Engine Room UTMs easting 377993 northing 3969093 zone 13

Legal Description: Map Guaje Mountain Quad tnsp N range E sec N/A

Current Use/ Function Vacant Original Use/ Function Laboratory

Date (estimated) 1943 Date (actual) 1943 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 1

Foundation Reinforced concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Two wood plank doors on either end of enclosed loading dock.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☑

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition A wooden barricade filled with pumice was constructed in 1949. A set of long wooden steps that lead up to the east were also added in 1949.

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Reinforced concrete earthen berm

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Reinforced concrete roof earthen berm

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type

# of Each Window Type/ Comments No windows except the light panel in the exterior doors.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type

Personnel Door Types — Exterior
Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐
Louvered ☐ Painted ☐

Personnel Door Types — Interior
Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☑ 1/2 Glazed ☐ Paneled ☑
Louvered ☐ Painted ☑

Equipment Door Types — Exterior
Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types — Interior
Fire Door ☐ Single ☐ Double ☐ Roll-u ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 3 single doors and 1 set of double doors

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc) Exposed concrete walls; surface mounted electrical and mechanical.

Degree of Remodeling Moderate

Condition Excellent ☐ Good ☐ Fair ☑ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s TA-8-1 & TA-8-2

Integrity Good

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☑ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐
Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐
Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations)

Reinforced concrete bunker originally contained a press room and a control room. Along the original front or north elevation there is a personnel door with a louver in the lower half, a set of double personnel doors with louvers. An enclosed loading dock is currently along the north face of the building with a stairway leading up to the east.

Total sq ft 366 Gross

Architect/ Builder W. C. Kruger - Architects & Associates

Alterations

In 1948, a frame wall separating the two rooms was removed and a two-foot-thick "adobe brick and sand" wall was built. This wall was then sandwiched by one-inch thick steel plate and held together by one-inch steel thru-bolts. The wall contained several sleeves, one of which is referred to as a "periscope". In 1949 a wooden barricade filled with pumice was constructed. In 1957 hoods were installed for the building's use as a " Plastic Scintillator Facility". In 1959, the building was altered again and a plasmatron power supply was installed. The loading dock was enclosed in 1966.

List of Drawings (Cntrl + Enter for para break)

ENG-C 15005
TA-8-3
Building (No.1B) (AW-3)
Plans & Details
June 1943

ENG-C 15014
TA-8-3
Building No. 1B (AW-3)
Electrical Layout
June 1943

ENG-C 12324
TA-8-3
Building No. 1B (AW-3)
Diesel Engine - Electrical & Ventilating Layout
October 1943

ENG4-C 499
TA-8-3
Alter Building A-1-B (AW-3)
Anchor Ranch TA-8
December 20, 1948

ENG C-1058
TA-8-3
Alteratinos to Bldg. AW-3
Plot Plan & Details
October 19, 1949

ENG-C 19303
Sheet 1 of 3
TA-8-3
Plastic Scintillator Facilities Plan and Details
TA-8, Bldg AW-3
September 27, 1957

ENG-C 19035
Sheet 1 of 4
TA-8-3
Plasmatron Power Supply Location Plan General notes Scope and bill of Materials
TA-8, Bldg. AW-3
October 19, 1959

ENC-C 34041
Sheet 1 of 2
TA-8-3
Dock Enclosure: Structural, Plan, Section,

Detail, & Gen. Notes
TA-8, Bldg. AW-3
April 6, 1966

ENG-R2612
TA-8-3
Laboratory Bldg.
Floor Plan
TA-8, AW-3
August 25, 1983



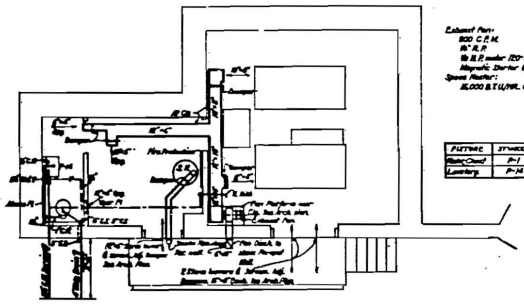
TA-8-3 (Structure behind green barricade) North Elevation



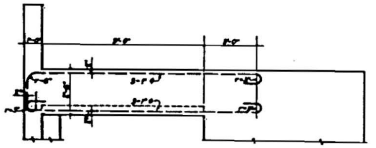
TA-8-3 and TA-8-1 North Elevation

WAR DEPARTMENT

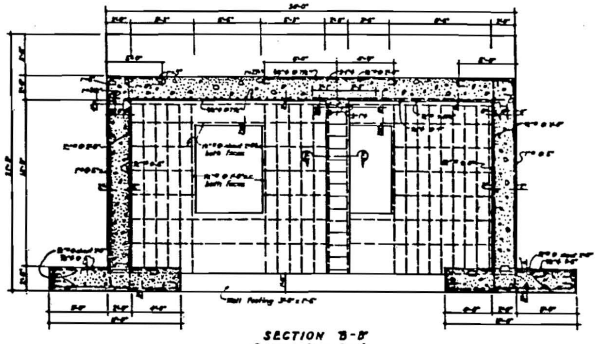
CORPS OF ENGINEERS, U.S. ARMY



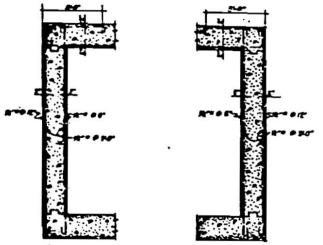
PLAN - VENTIL. HTG. - PLBG.
Scale 1/8"=1'0"



ELEVATION BEAM B-1
Scale 1/4"=1'0"

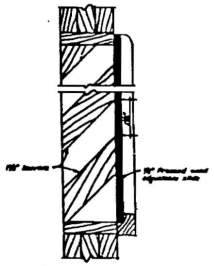


SECTION "B-B"
(Without Floor Slab)
Scale 1/4"=1'0"

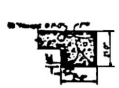


PART SECTION "D-D"
Scale 1/4"=1'0"

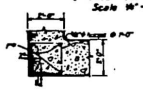
PART SECTION "C-C"
Scale 1/4"=1'0"



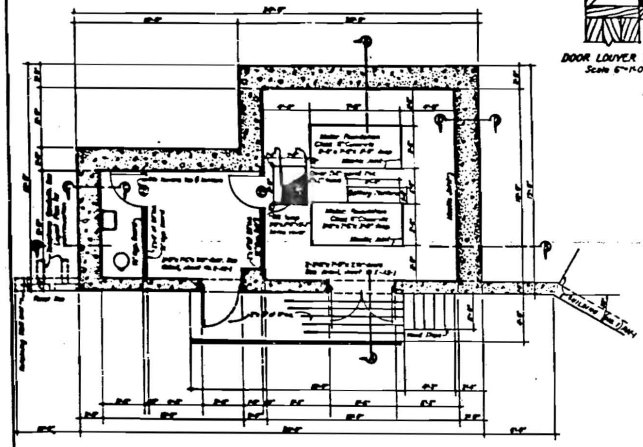
DOOR LOUVER SECTION
Scale 6"=1'0"



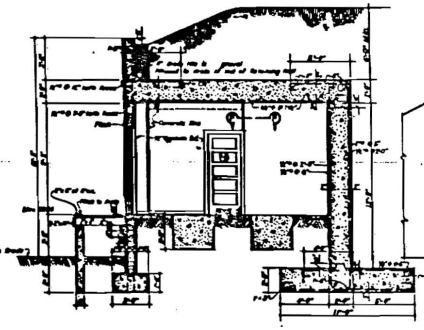
PART SECTION "E-E"
Scale 1/4"=1'0"



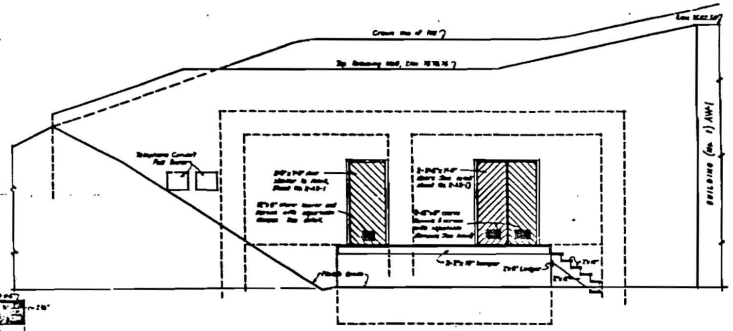
PART SECTION "F-F"
Scale 1/4"=1'0"



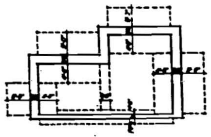
PLAN
Scale 1/4"=1'0"



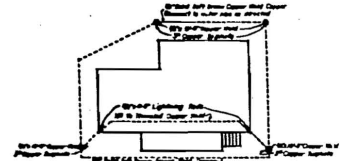
SECTION "A-A"
Scale 1/4"=1'0"



FRONT ELEVATION
Scale 1/4"=1'0"



FOOTING PLAN
Scale 1/8"=1'0"



PLAN OF LIGHTNING PROTECTION
No Scale

GENERAL NOTES

1. Concrete is to be Class "A" throughout. See Specifications.
2. All reinforcing steel shall be deformed bars.
3. Lap all bars a minimum of 40 diameters.
4. Hooks to have a minimum diameter of 6 diameters of bar.
5. Full length of bends to be not less than 16 diameters of bar.
6. Backfill shall be laid uniformly over entire area until maximum depth is reached.

TALE-ANCHO AREA BLDG NO 2W-3

LOS ALAMOS PROJECT - NEW MEXICO

BUILDING (NO. 15) (A.R.R.)
PLANS & DETAILS

W. C. KRUGER - ARCHITECT & ASSOCIATES
R.D. RUBLE & LLOYD W. SHANK - ENGINEERS

SCALE AS NOTED — SHEET NO. X-AT-1

U.S. ENGINEER OFFICE ALBUQUERQUE, N.M. JUNE 1943

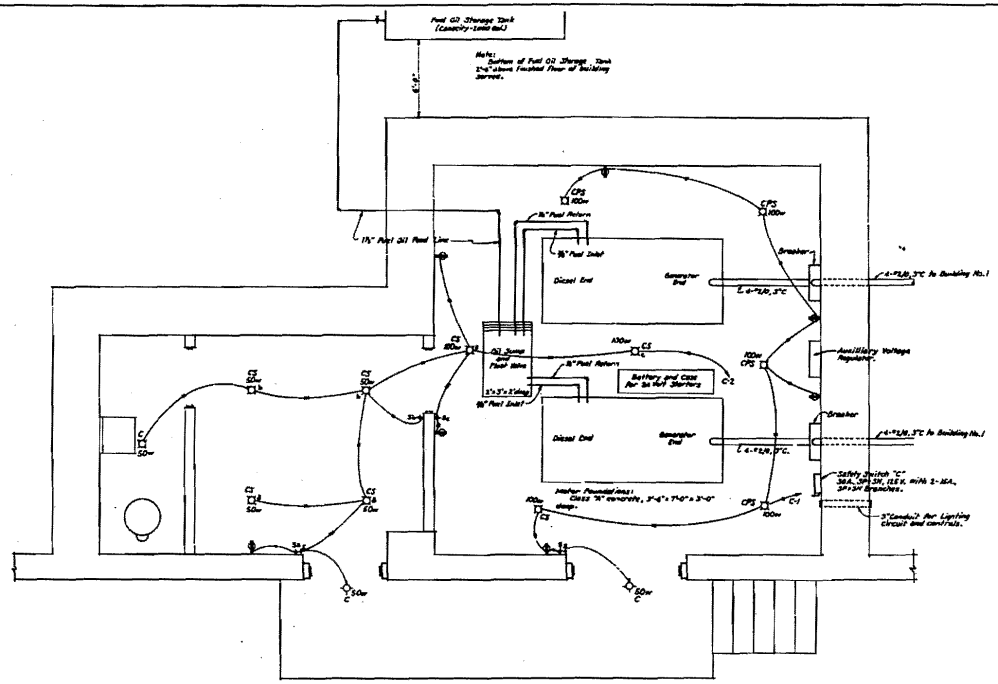
APPROVAL RECOMMENDED — APPROVED

DRAWN — TRACED — CHECKED — DATE — AS BUILT

L.A.E.L. PROJ. NO. (58): 15005

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY



FLOOR PLAN SHOWING MECHANICAL AND ELECTRICAL LAYOUT
Scale: ⅛"=1'-0"

SPECIFICATIONS

Diesel Electric Set with Radiator and Fan:
Kilowatt Rating - Polyphase, 60 cycles, with full equipment, 10 KW at 80% Power Factor.

Engine:
Four Stroke Cycle, Water Cooled.
Fuel - Commercial Diesel Fuel, 45-50 Cetane, 30-34 Gravity (0+60°F), 33-42 Viscosity.
Number of Cylinders - 4.
Governed Speed, R.P.M. (60 Cycles) - 1200.
Governed Speed Regulation to be not in excess of 0.7%.
Piston Speed, ft. per min. - 1102.
Governor Type - Motor Controlled.
Fuel System - Engine Driven Fuel Pump, Suction Lift, Min. 10 Ft. at 7300 Ft. elevation.
Fuel Filter - Absorbent Type.
Lubricating System - Forced Feed.
Lubrication Filters - Absorbent Type.
Water Circulation - Centrifugal Pump.
Air Cleaner - Oil Bath.
Generator Coupling Type - Cushioned.
Starting Method - 32 Volt electric, Automatic and Manual Control (with controls extended to Building No. 1 with exact location to be determined by the Contracting Officer) with electric Motor Drive by disconnect clutch and helical gears to fly wheel.

Generator:
Direct Connected, Rotating Field Type, Alternating Current, Voltage 110-208, 3 Phase, 4-Wire, 10 KW. at 80% Power Factor. Voltage wave characteristics to be true 60 cycle Sine wave.

Exciter:
Belt Drive, mounted on top of Alternator.

Voltage Regulator:
The 3 Phase voltage shall be held to a maximum regulation of 1% from no-load to full-load.

Grounding:
The mid-point of each generator winding shall be grounded to a common counter-poise grounding system, by using a ¾" soft drawn CWC rod. The frame of each unit shall be connected to ground with No. 6 soft drawn copper. The counter-poise ground shall consist of a ¾" soft drawn copper weld rod connecting to the 6" water line at the road and connecting to 4 - ¾" x 10'-0" drives copper weld ground rods, rods to be driven at least 10 Ft. apart.

Lightning Protection:
¾" x 4'-0" Lightning Rods shall be installed at two corners of the building and be connected across the top of the building by a ¾" soft drawn copper weld Rod. The ¾" rods shall be extended down the building to connect into the counter-poise ground system mentioned above together with a separate connection to the 6" water line at the road. The connection to the water line shall be at least 10'-0" from the connection made by the counter-poise system.

Breakers:
Each generator shall be equipped with an enclosed, air type, wall mounted, Circuit Breaker with overload trip coils. This coil and contacts shall handle the full load of the generator without overheating.

Fixture Schedule:
See Sheet No. E-F-12 for electrical fixture schedule & details.

No.	Date	Character Revisions	Approved

LOS ALAMOS PROJECT - NEW MEXICO

BUILDING NO. 1B (A.R.R.)
ELECTRICAL LAYOUT

W. C. KRUGER - ARCHITECT & ASSOCIATES
R. O. RUBLE & LLOYD W. SHANK - ENGINEERS

SUBMITTED: [signature] SHEET NO. X-AT-2

U. S. ENGINEER OFFICE, ALBUQUERQUE, N. M. JUNE, 1943

APPROVAL RECOMMENDED: [signature] ARCHITECT ENGINEER
APPROVED: [signature] DISTRICT ENGINEER

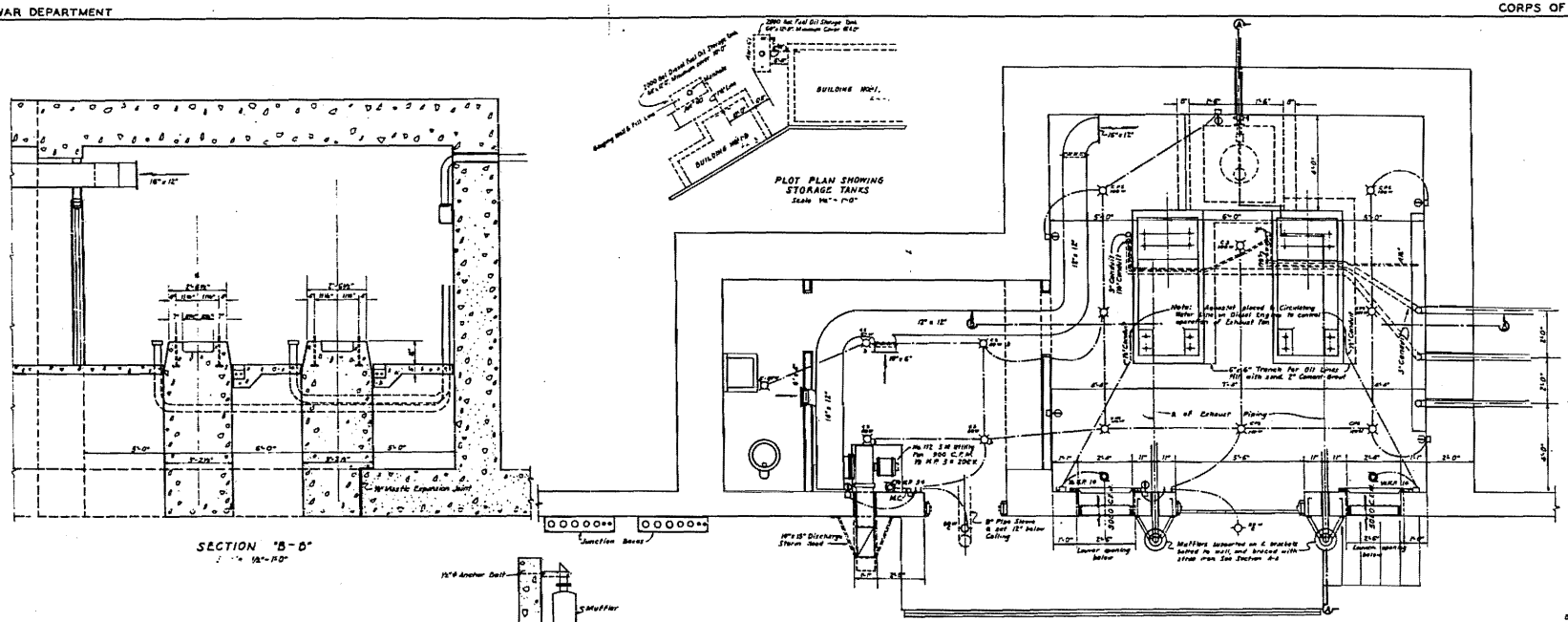
DR. F.S. TR. S.W. CH. SUB. | SCALE: AS NOTED | D.C.S. FILE NO. | A.L.D. DIST. FILE NO.

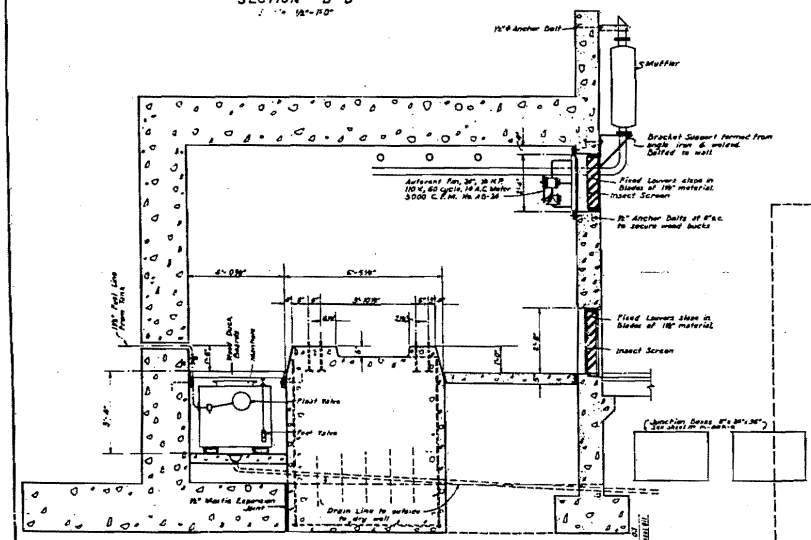
L.A.S.L. DWG. NO. ENG-C 15014

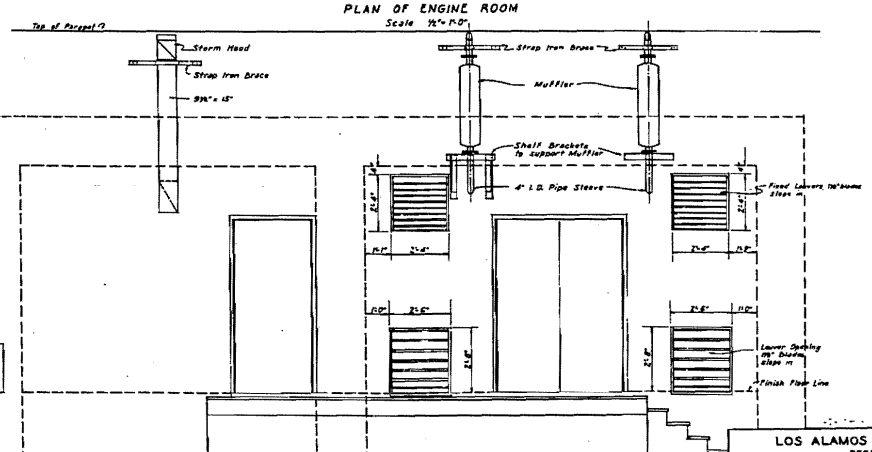
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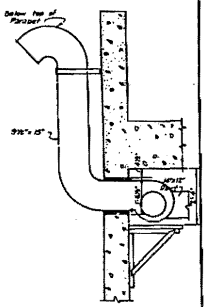
WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY









LOS ALAMOS PROJECT - NEW MEXICO
RECORD DRAWING

BUILDING NO. 18 (ARR)
DIESEL ENGINE - ELECTRICAL & VENTILATING LAYOUT

W. C. KRUGER - ARCHITECT & ASSOCIATES
R. O. RUBLE - ENGINEER

SUBMITTED

SHEET NO. R-AT-2

U.S. ENGINEER OFFICE ALBUQUERQUE, N.M. OCT., 1943

APPROVAL RECOMMENDED — ARCHITECT - ENGINEER

APPROVED — MAJOR CORPS OF ENGINEERS AREA ENGINEER

DR. BY
TR. BY
CH. A.U.C.

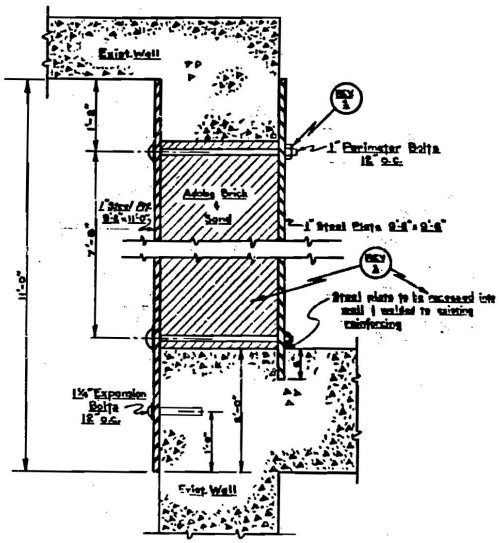
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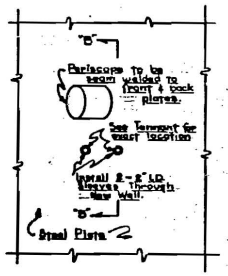
ALB. DIST. FILE NO.

L.A.S.L. DWG. NO. ENG-C 12324

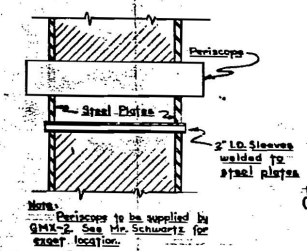
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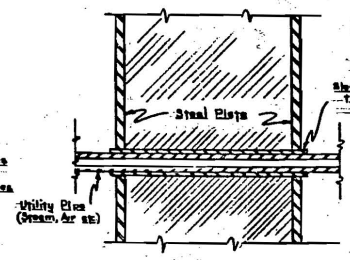
DETAIL "A"
Scale 1"=1'-0"



DETAIL "B"
Scale 1"=1'-0"

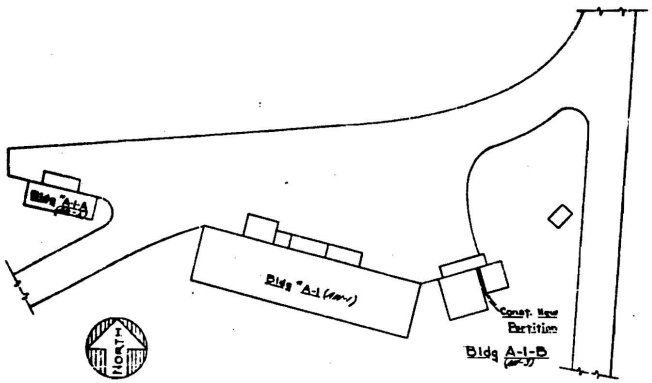


SECTION "B-B"
of DETAIL B
Scale 1"=1'-0"

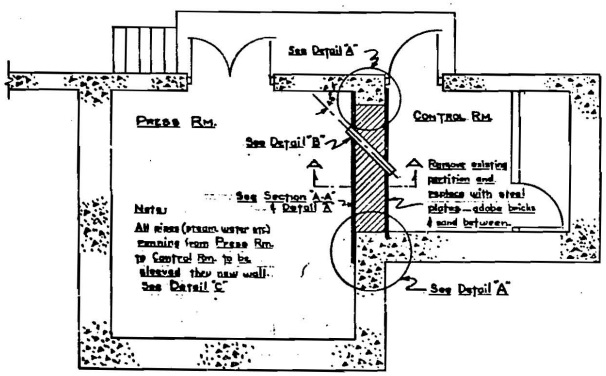


DETAIL "C"
Typical Detail of Sleeves for existing pipes.

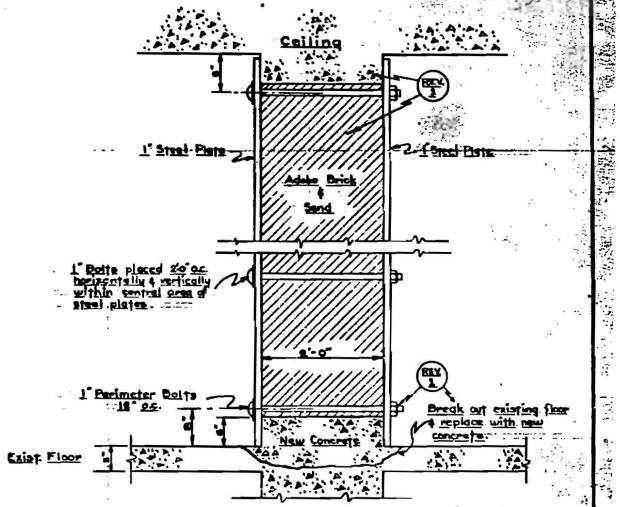
Notes:
1. Use longest expansion bolts possible.
2. Verify all dimensions in field.
3. Paint new construction to match exist.
4. 1" Nuts to be snug tight and spot welded to washers.



PLOT PLAN
ANCHOR RANCH TA-8



FLOOR PLAN
BLDG. A-1-B (1947)
Scale 1/4"=1'-0"



SECTION "A-A"
Scale 1"=1'-0"

RECORD DRAWING—AS BUILT CONSTRUCTION		
SURVEYED.	RECOMMENDED.	APPROVED.
FOR THE LAB. DIV.	A.E.C.	A.E.C.

THIS JOB MUST BE INSPECTED AND APPROVED BY STALLINGS INSPECTOR

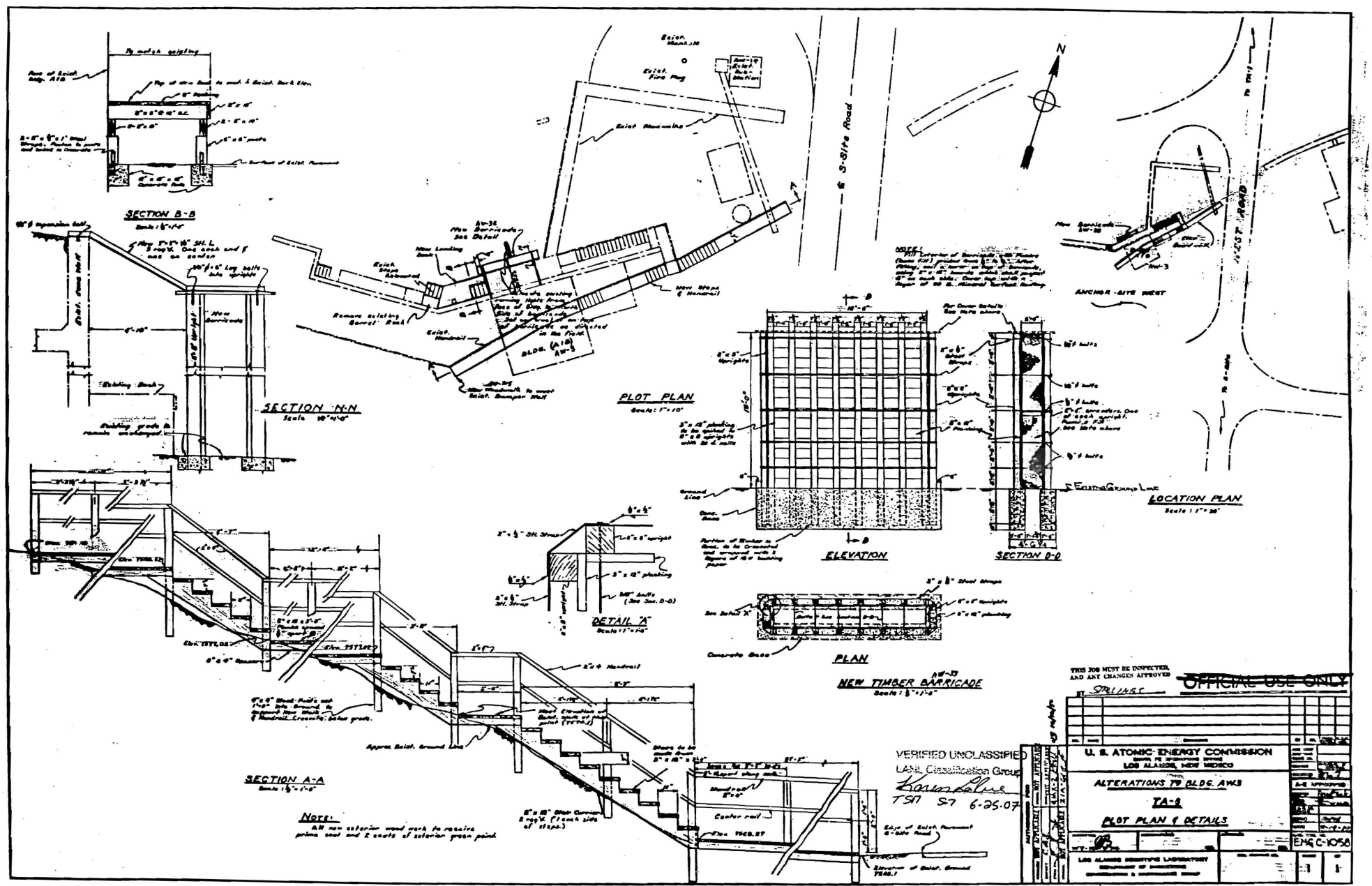
NO.	DATE	STATUS	REVISIONS	BY	CK.
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A	7-31-57	AS BUILT	REQ'D NO REV. TO AS BUILT STATUS	NO	
A	5-8-57	DWG. NO.	WAS ENG. 4M-49	MR	

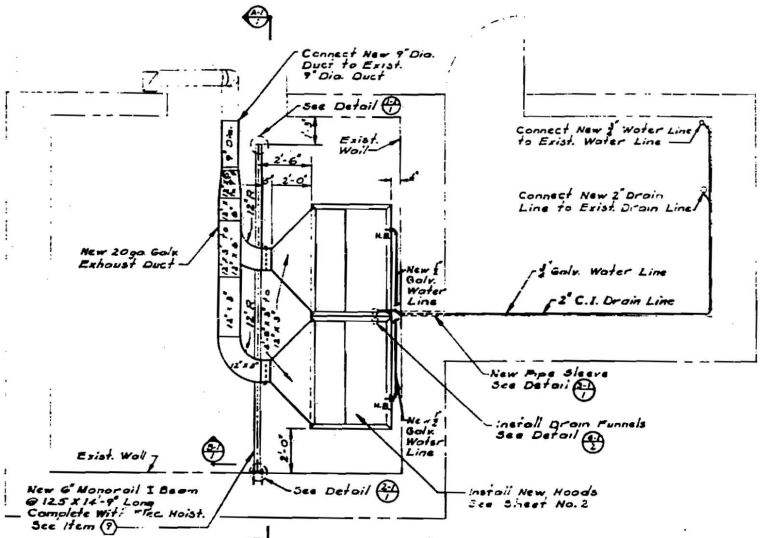
AUTHORIZED FOR: HEALTH, SAFETY, FIRE PR., COMM., PROC., ENG., GMX-2 & MR

LOS ALAMOS SCIENTIFIC LABORATORY
DEPARTMENT OF ENGINEERING — CONSTRUCTION & MAINTENANCE GROUP

ALTER BUILDING A-1-B (1947)
ANCHOR RANCH TA8
JO. NO 9451 OR. GMX-2-08

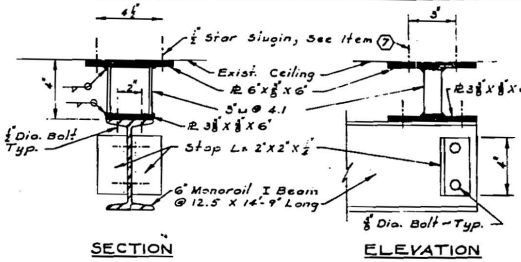
SCALE	DRAWN BY: R. F. M.	DATE: 12-20-46	DWG. NO.
AS NOTED	CHKD. BY: C.S.H.	DATE: 1-2-47	0-132-009
	APP'D. BY: [illegible]	DATE: 1-2-47	


SECTION B-B
SECTION N-N
PLOT PLAN
LOCATION PLAN
ELEVATION
SECTION D-D
DETAIL A
PLAN
NEW TIMBER BARRICADE
SECTION A-A
Note:
S-Site Road
WEST ROAD
ANCHOR SITE WEST
Existing Ground Line
OFFICIAL USE ONLY
VERIFIED UNCLASSIFIED
LANL Classification Group
TSM S7 6-25-07
U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS, NEW MEXICO
ALTERATIONS TO BLDG. AW3
TA-2
PLOT PLAN & DETAILS
LOS ALAMOS SCIENTIFIC LABORATORY
E-46 C-1058



PLAN — BLDG. AW-3

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

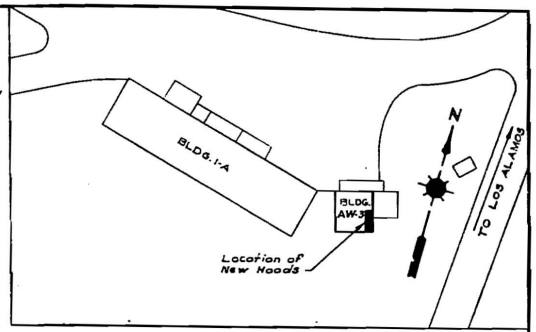


SECTION

ELEVATION

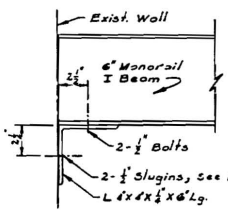
DETAIL (4/7)

SCALE: 3"=1'-0"



LOCATION PLAN

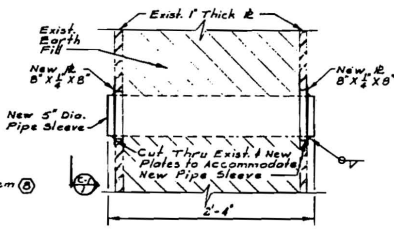
BLDG. AW-3 — TA-8



ELEVATION

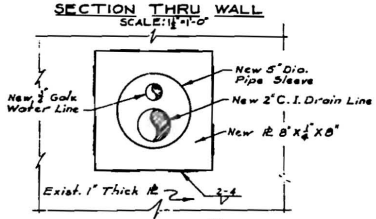
DETAIL (5/7)

SCALE: 3"=1'-0"



SECTION THRU WALL

SCALE: 1 1/2"=1'-0"



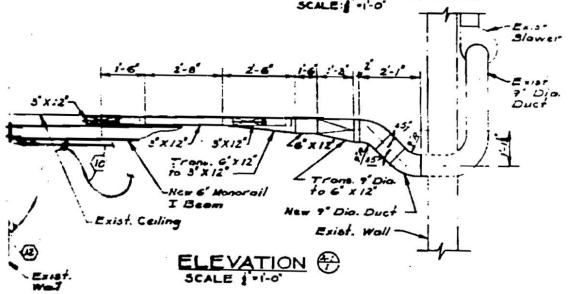
ELEVATION (5/7)

SCALE: 3"=1'-0"

DETAIL (5/7)

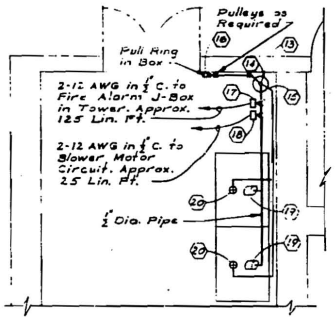
GENERAL NOTES

1. All Fire Protection Equipment shall be installed in Accordance with The Standards of The National Board of Fire Underwriters.
2. All Fire Protection Equipment to be Furnished by L.A.S.L., Group Eng. 4.
3. Provide Suitable Duct Supports For All New Duct Work.



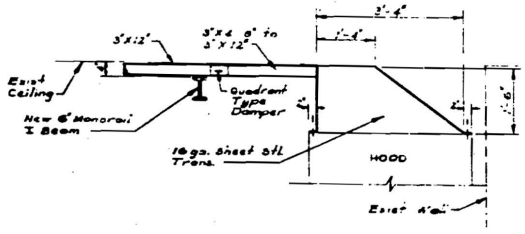
ELEVATION (4/7)

SCALE 1/4"=1'-0"



FIRE PROTECTION PLAN

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



ELEVATION (6/7)

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

MFR. C-O Two Fire Equipment Co. Newark, N.J.

C-O TWO EQUIPMENT LIST

ITEM NO.	DESCRIPTION	REQ. PER SET	DWG. No.
(13)	50 Lb. Size CO2 Cylinder	1	B-607691
(14)	Discharge Head AP-6 With Lever	1	C-607692
(15)	1" Flexible Discharge Bend	1	B-607663-1
(16)	Pull Box, Type "A"	1	B-607674
(17)	Pneumatic Sw., Ch'l. Opener-Closer	1	B-607682
(18)	Pneumatic Sw., Normally Closed	1	B-607683
(19)	No. 10 Baffle Horn Nozzle (For Hood)	2	B-607697

ADDITIONAL FIRE EQUIPMENT

(20)	Heat Actuated Device (H.A.D.)	2	

LIST OF EQUIPMENT

ITEM NO.	REQ'D	DESCRIPTION	MANUFACTURER
(1)	2	R-W No. 30 Lock Joint Trolley Track, 10'-0" Lg.	Richards-Wilcox
(2)	4	R-W Style No. 22 Center Bracket For Trolley Tract No. 30	
(3)	2	R-W Style No. 23 End Bracket For Trolley Tract No. 30	
(4)	3	R-W No. 314 Hanger	
(5)	2	R-W No. 272 End Door Guide and Stop	
(6)	1	R-W No. 173 Adjustable Parallel Door Fl. Guide	
(7)	2	Stor Slugin, Thread Type, Size 1", 3 Unit Set. Cat. No. 6837.	Star Expansion Bolt Co.
(8)	2	Stor Slugin, Thread Type, Size 1", 2 Unit Set. Cat. No. 6837.	New York, N.Y.
(9)	1	Widget King Hook Type Elec. Hoist For 110 V. 60 Cycle Single Phase Operation; 1000# Cap. Model No. 1 1/2 E17H Complete With Steel Ball Bearing I-Beam Trolley.	Yale & Towne Mfg. Co. Philadelphia, Pa.
(10)	1	Electric Cord Suspension For 15 Ft. Travel Part No. BM20W644	
(11)	2	Industrial Circuit Breaker, Type ML, Two Pole 600 V. A.C., Frame Size ML1, 100 Amp., 70 Amp Trip, NEMA Type 1A Enclosure. Cat. No. 75670	Square "D" Co.
(12)	1	Circuit Breaker Complete With Standard Steel Housing and 1-3 Wire Receptacle. 15 A. Trip. Cat. No. 5935	Heinemann Elec. Co. Trenton, N.J.

STALLINGS 7-4833

NO.	DATE	REVISIONS	BY	CHKD	ORIG. LDR.	ENG. R.C.

AUTHORIZED FOR: HEALTH J-13 Lemker; SAFETY J-DO; FIRE PROT. C.A.S.; MEC. E.F.H.

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

PLASTIC SCINTILLATOR FACILITIES

PLAN AND DETAILS

BLDG. AW-3 — TA-8

CHECKED: Lou Wilson; RECOMMENDED: G. Lemker; APPROVED: W. Mitchell

DESIGNED: A.S. Hayes; DRAWN: J. GRIFFIN; DATE: SEPT. 27, 1957

SCALE: NOTED; SHEET 1 OF 3; DRAWING NO. ENG-C19303

B. A. NO. ____ LAB. JOB NO. 2052

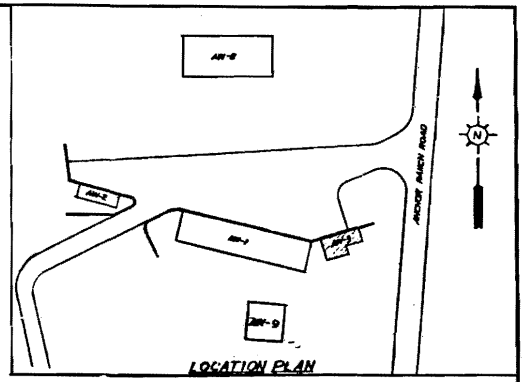
GENERAL NOTES

1. THE ENTIRE INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE CURRENT RULES OF THE N.E.C.
2. ALL RACEWAY AND THE FRAMES AND ENCLOSURES OF ALL BREAKERS AND OTHER ELECTRICAL EQUIPMENT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.
3. ALL BRANCH CIRCUITS SHALL BE IDENTIFIED AT PANELS.
4. ALL CONDUIT RUNS SHALL BE ROUTED TO SUIT EQUIPMENT AND BUILDING STRUCTURE & SHALL BE EXPOSED UNLESS OTHERWISE NOTED.
5. ITEMS DESIGNATED ⓘ ARE DESCRIBED IN ELE. "RECAL" BILL OF MATERIAL
6. THE GROUNDING CONDUCTOR, WHEN INSTALLED IN CONDUIT, SHALL BE BARE COPPER SIZED IN ACCORDANCE WITH THE N.E.C. OR AS INDICATED ON DRAWINGS. WHEN INSTALLED IN ENCLOSURES WHERE CONTACT WITH TERMINALS OR OTHER LIVE PARTS IS POSSIBLE, THE GROUNDING CONDUCTOR SHALL BE INSULATED AND GREEN IN COLOR.

SCOPE OF WORK

ELECTRICAL WORK FOR PLASMATRON POWER SUPPLY SHALL INCLUDE THE FOLLOWING.

1. MODIFY EXISTING 208 VOLT SERVICE TO AW-1, AW-3, AW-2 & AW-8 PER SKC NO. 2
2. REMOVE THE 3-25 KVA 12,470/120/208 V TRANSFORMERS LOCATED NORTH OF AW-1 AND REPLACE WITH 3-37½ KVA 12,700/120/208 V TRANSFORMERS WHICH WERE REMOVED FROM TA-46 TO TA-8 ON WORK ORDER NO. 9-383-001.
3. MAKE CONNECTIONS BETWEEN DISTRIBUTION PANEL ① & PLASMATRON POWER UNITS.
4. INSTALL 480 VOLT SYSTEM FROM NEW 480 V TRANSFORMER BANK TO BLDG. AW-3 AS INDICATED ON DRAWINGS.
5. INSTALL 480 VOLT MAIN CIRCUIT BREAKER ② & DISTRIBUTION PANEL ① PER DRAWINGS

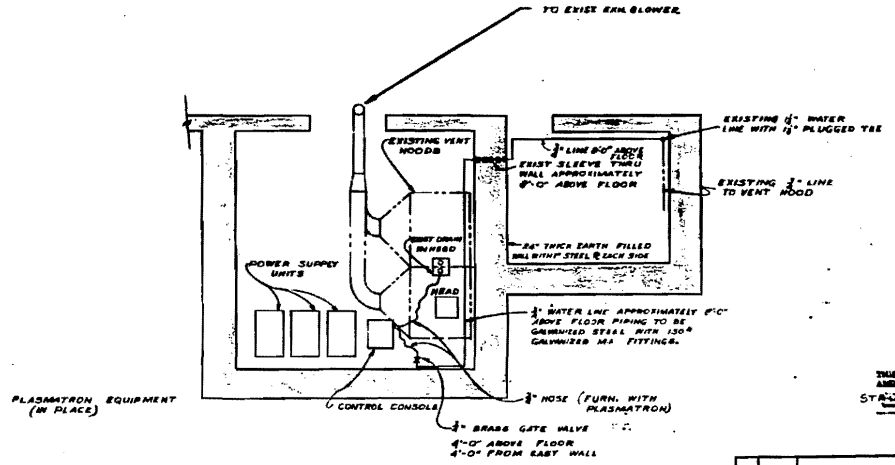


LOCATION PLAN

BILL OF MATERIAL

THE BILL OF MATERIAL IS INTENDED ONLY AS AN AID IN ESTIMATING AND MATERIAL TAKE-OFF AND DOES NOT NECESSARILY INCLUDE ALL MATERIALS REQUIRED. UNLESS OTHERWISE NOTED, CATALOG NUMBERS ARE GIVEN AS REFERENCE ONLY, AND EQUAL APPROVED SUBSTITUTIONS MAY BE MADE.

ITEM NO.	NO. REQ'D.	DESCRIPTION	MFR. AND CAT. NO.	FURNISHED BY
①	1	DISTRIBUTION PANELBOARD, 6 CIRCUITS, THIN UNIT, 480 VOLT, 3-POLE, WITH MAIN LUGS ONLY. PANELBOARD TO CONSIST OF 3-60 AMP BOLT-ON TYPE CIRCUIT BREAKERS, 3 SPACES. BOX TO BE APPROX. 30" HIGH, 30" WIDE & 8 5/8" DEEP FOR SURFACE MOUNTING.	SQUARE D ML-1 PKR. FI 24 PHASE BRK "CB 30360 FRONT "CB 30303	CONTRACTOR
②	1	CIRCUIT BREAKER, 225 AMP. FRAME, 200 AMP TRIP, 600 VOLT, 3-POLE, CIRCUIT BREAKER TO BE COMPLETE & MOUNTED IN A RAINTIGHT ENCLOSURE.	SQUARE D ML 3 726 R8	CONTRACTOR



MECHANICAL PLAN - BLDG AW-3
WATER PIPING, DRAIN, & VENTILATION
SCALE: ¼" = 1'-0"

THIS JOB MUST BE INSPECTED AND ANY CHANGES APPROVED BY ENG-4 STATE ENGINEER 7-4488

NO.	DATE	REVISIONS	BY

AUTHORIZED FOR: JOB / SPECIFICATION / FINE PRINT / MINIMUM NOT AP

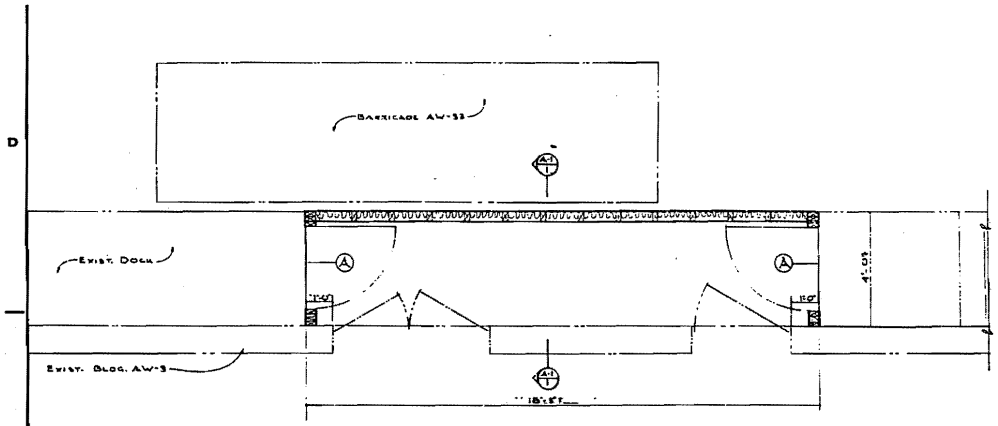
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

PLASMATRON POWER SUPPLY
LOCATION PLAN GENERAL NOTES
SCOPE AND BILL OF MATERIALS

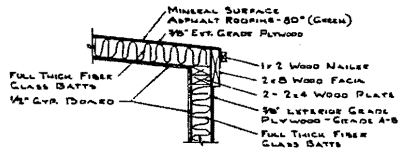
BLDG AW-3 TA-8

DESIGNED BY: W.D.	DRAWN BY: J.D. CRANE	APPROVED:	APPROVED:
DATE: 10-19-59	SCALE: AS NOTED	SHEET: 1 OF 4	ENG-C 19035

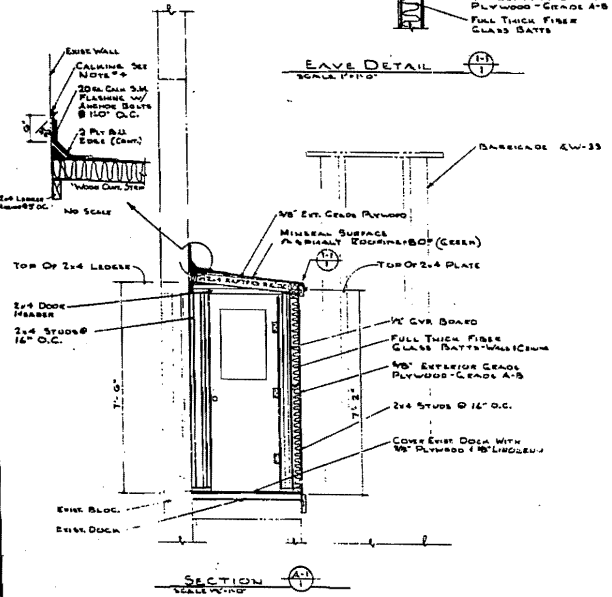
U. S. A. NO. _____ LAB. JOB NO. 2292



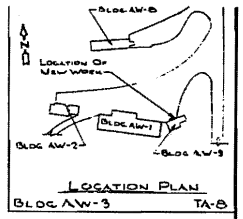
PLAN VIEW
SCALE: 1"=1'-0"



EAVE DETAIL
SCALE: 1"=1'-0"



SECTION
SCALE: 1"=1'-0"



LOCATION PLAN
BLDG. AW-3 TA-8

* STRUCTURAL NOTES *

1. ALL LUMBER TO BE WEST COAST DOUGLAS FIR CONST. OR BETTER.
2. TAPE AND SPACKLE GYP. BOARD JOINTS. FINISH TO A SMOOTH APPEARANCE PRIOR TO PAINTING
3. PAINT INTERIOR AND EXTERIOR WITH TWO (2) COATS OF "ALBI TEMP KOTE" (MARY 342 ITEM 69.
4. ALL CAULKING TO BE C.E. SILICONE CONSTRUCTION SEALANT TRANSLUCENT TYPE.

DOOR SCHEDULE

DOOR 'A' - 2 - 3'0" x 7'0" x 1 3/4" WOOD EXTERIOR DOOR w/ GLAZED UPPER PANEL

HARDWARE (PER EACH DOOR) (RUSSWIN)

DOOR 'A' - 1 1/2 PRS OF 4x4 BUTTS

1 - LOCKSET # 2058 BRONZE w/ BRONZE BOTH SIDES

STALLING BY EMC4 PHONE 7-5611

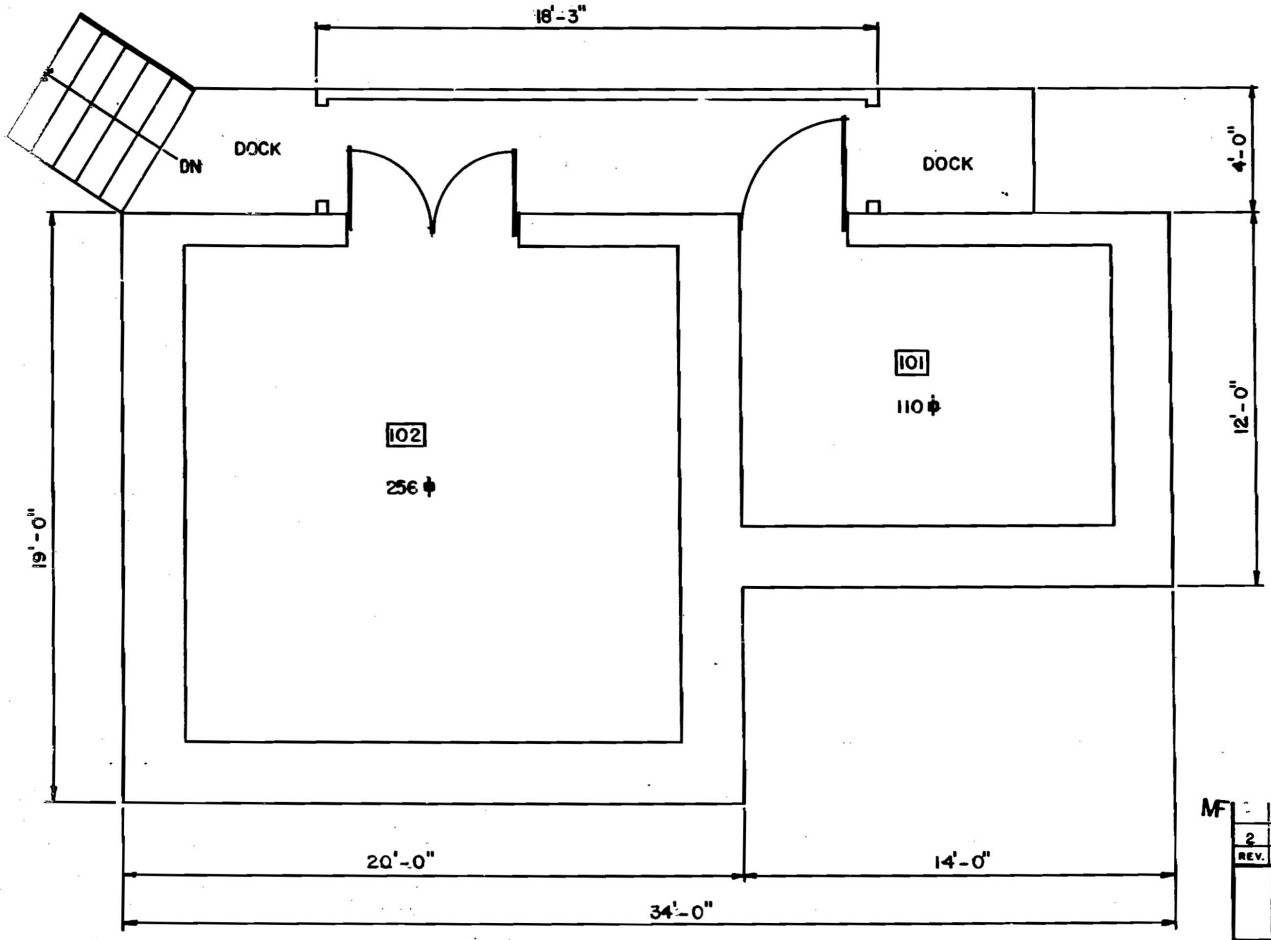
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

DOCK ENCLOSURE
STRUCTURAL: PLAN, SECTION, DETAIL, & GEN. NOTES.
BLDG. AW-3 TA-8

DRAWN: SPL	RECOMMENDED: GROUP LEADER	APPROVED: ENG. DEPT. HEAD	
TRACED: ZIMMERMAN	DATE: 4-6-66	DRAWING NO.	ENG-C 34041
CHECKED: COL	SHEET 1 OF 2		
SCALE: AS SHOWN			
C.A. NO.	B. A. NO.	L. J. NO. 33276	

AUTHORIZED FOR CONSTRUCTION J-14 J-20 HEALTH SAFETY FIRE PROT. ENG.

NO.	REVISIONS	BY	DATE	APP.	NO.	REVISIONS	BY	DATE	APP.



1/4"=1'-0"

0 2 4 8'

GRAPHIC SCALE

BLDG. TOTAL 366 S.F.

REV.	DATE	REVISION	BY	CKD.	APP.
2	8-25-83	REDRAWN & REVISED TO STATUS OF AUGUST 25,1983	H&N		

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

LABORATORY BLDG.
FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER Rhodes
DATE 8-6-84

BLDG. AW-3 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dennis Ruge	W. T. Edwards

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	H&N	08-25-83	1 OF 1	ENG-R2612

REC'D

LANL TA- Building # 08-0020

Camera 984242

Frame #s DCP_2454 through DCP_2457

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Guard Station UTMs easting 378436 northing 3969024 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Guard Station Original Use/ Function Guard Station

Date (estimated) Date (actual) 1950 Property Type Security

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 1

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc) Painted

Exterior Features (docks, speakers, lights, signs, etc) Exterior building elements include pendant style light fixtures at all four corners, conduit, minor signage, and a fire extinguisher.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Flat

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Steel angles covered with a 20-gauge roof deck, 2 in. rigid insulation, and 3-ply tar and gravel roofing.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning style and hopper style

# of Each Window Type/ Comments Steel frame 3-light awning style windows are located on the south, west, and east sides with 4-light hopper windows on the north side.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern 3-light and 4 light windows

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐
Louvered ☐ Painted ☑

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 1 door located on the south side.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Excellent

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐

Nuclear Weapon Design and Testing ☑

Nuclear Propulsion ☐

Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐

Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations)

The Guard Station was constructed as an one-story, square-in-plan structure measuring 13 ft 8 in. by 13 ft 8 in. The building was constructed with a raised 6 in. thick concrete floor slab with a perimeter foundation, and 1 -ft-thick concrete walls. A concrete apron is located on the front (south side) of the building. The flat roof is constructed with steel angles covered with a 20-gauge roof deck, and 2 in. rigid insulation, and 3-ply tar and gravel roofing. The roof has 3-ft-deep cantilevered eaves finished with non-perforated metal pans attached to the soffits and a metal fascia.

Total sq ft 144 gross **Architect/ Builder** Black and Veatch Consulting Engineers

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 12393
TA-8 (Bldg. No. 89) AW-20
TA-8-20
Plan Elevations & Details
May 17, 1949

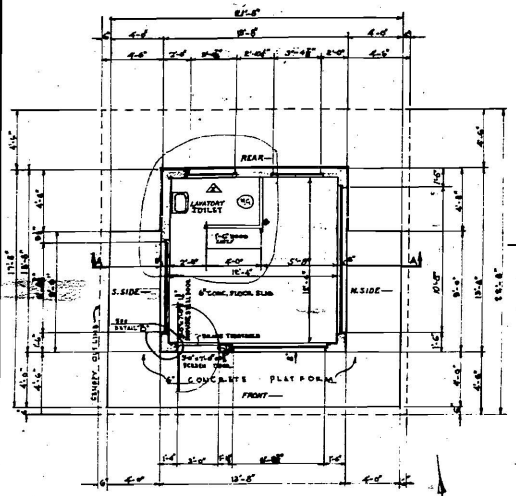
ENG-R 2615
TA-8, Bldg AW-20
TA-8-20
Guard House
Floor Plan
August 15, 1983



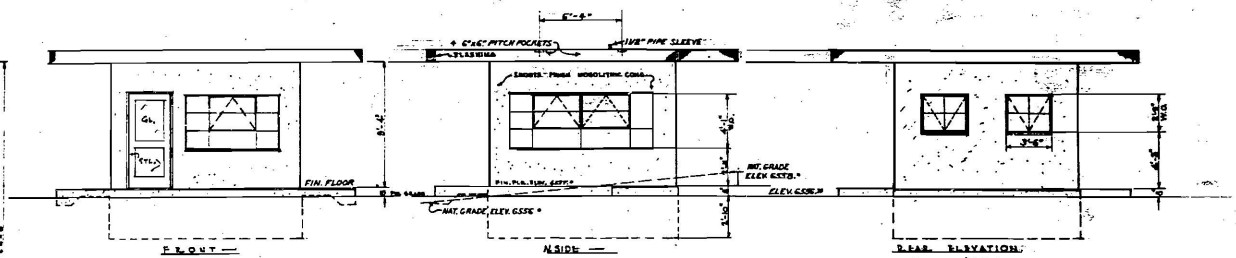
TA-8-20 West and South Elevations



TA-8-20 East and North Elevations



FLOOR PLAN
SCALE 1/4" = 1'-0"



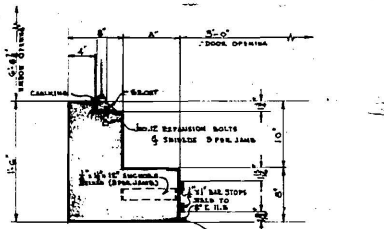
FRONT

N. SIDE

REAR ELEVATION

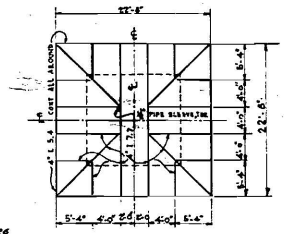
SCALE 1/4"=1'-0"

DIAGONAL BRACE SHALL BE COMMERCIAL PROJECTING STEEL TYPE INSTALLED COMPLETE WITH HEAVY DUTY SCREWED SHEAR ANTITILTING METAL PADS AS REQUIRED.



DETAIL "B"
SCALE 1"=1'-0"

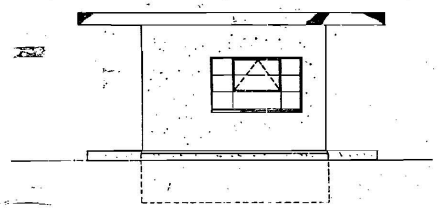
See Dwg. Eng. C-4226



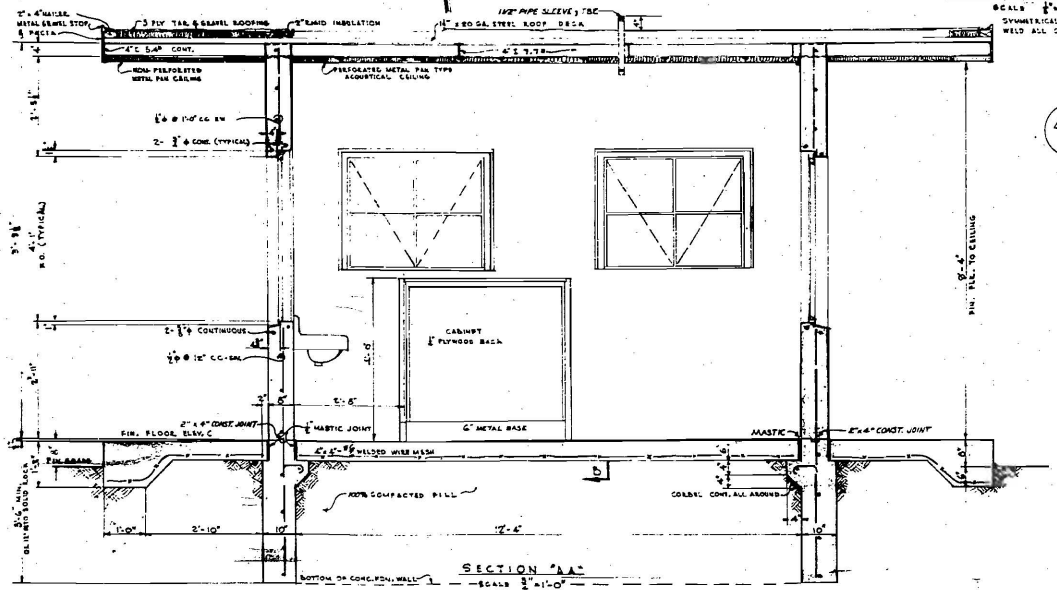
ROOF FRAMING PLAN (See Dwg. Eng. C-4236)

SCALE 1/4" = 1'-0"

SYMMETRICAL ABOUT CENTER LINES
WELD ALL CONNECTIONS



S. SIDE
SCALE 1/4"=1'-0"



SECTION "AA"

SCALE 3/4"=1'-0"

NOTES:
ALL EXTERIOR CONCRETE WALL SURFACES SHALL BE TREATED WITH ALIGHT GRAY COLOURED, METALLIC WATER PROOFING.

THE CONTRACTOR SHALL PROVIDE FOUR, 6" x 6" PITCH POCKETS AT LOCATIONS ON THE ROOF AS DIRECTED BY THE CONTRACTING OFFICER.

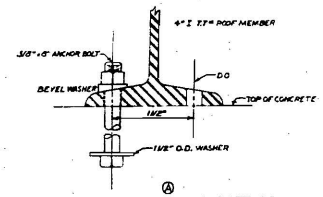
INTERIOR CONCRETE WALLS, METAL & WOODWORK SHALL BE PAINTED WITH 3 COATS OF LEAD AND OIL PAINT.

CONCRETE SHALL BE TYPE "A" AND SHALL DEVELOP A STRENGTH OF 3000 P.S.I. @ 28 DAYS

CONTRACTOR SHALL MIX 1/2 LB. CEMENT DISPERSER INTO CONCRETE WITH EACH SACK OF CEMENT USED

ROOF FRAMING MEMBERS SHALL BE CAST INTO CONCRETE WALLS

REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS



Ⓐ DETAIL - ROOF FRAMING FASTENING
NO SCALE

NOTE:
For Doors See Dwg. Eng. C-4224
For Windows See Dwg. Eng. C-4237

AS CONSTRUCTED
CONSTRUCTION CONTRACT NO. AT (29-1)-762
SUBMITTED
RECOMMENDED
APPROVED
AS CONSTRUCTED

DRAWING REFERENCES	DWG NO.	SHEET	BY	CK
1269 Plumbing & Heating Layout				
1251 Electrical Layout				
1127 Plot Plan				

5/27/49	As-Built	TMC	

PLAN ELEVATIONS & DETAILS
BLDG NO. (89) AW-20

LOS ALAMOS TA - 8 NEW MEXICO

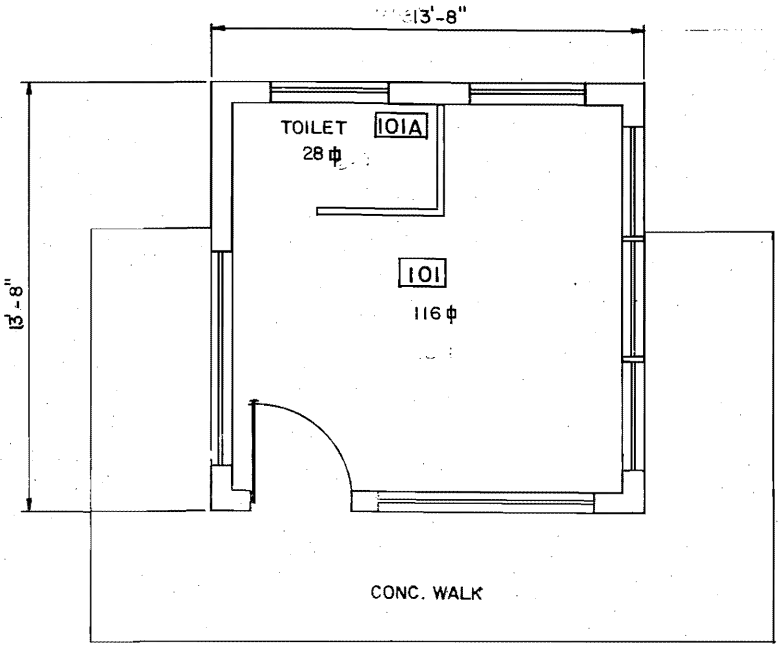
BLACK & VEATCH — CONSULTING ENGINEERS

5-17-49

FILE NO. 1290
DRAWN
CHECKED MEC
APPROVED
DATE 5-17-49
SHEET 43 OF 93

L.A.S.L. DWG. NO. ENG-C 12393

SPA-OY-1/49.2



1/4"=1'-0"

0' 2' 4' 8'

GRAPHIC SCALE

BLDG. TOTAL 144 S.F. (144 S.F.)

MF

REV.	DATE	REVISION	BY	CKD	APP.
1	8-25-83	REDRAWN & REVISED TO STATUS OF AUGUST 25, 1983	H&N		

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

GUARD HOUSE
FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER Gradick
DATE 9-6-84

BLDG. AW-20 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dan Kryn	W. T. Ellis Lanl

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	Humble H&N	08-25-83	1 OF 1	ENG-R2615

3/30/84

LANL TA- Building # 08-0021

Camera 984242

Frame #s DCP_1302 through DCP_1309

Surveyor(s) J. Ronquillo, S. McCarthy

Date 3/24/2003

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Administration Office Building UTMs easting 378387 northing 3968970 zone 13

Legal Description: Map Frijoles Quad 1984 tnsp 19N range 6E sec 19

Current Use/ Function DX Division Administration Building Original Use/ Function Administration Office Building/Laboratory

Date (estimated) 1950 Date (actual) 1950 Property Type Administration

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 2

Foundation Reinforced Concrete

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc) Painted concrete

Exterior Features (docks, speakers, lights, signs, etc) There are covered loading docks on the north and south ends of the building.

Addition CMU-Addition ☑ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☑

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition North end, second floor entrance doors were enclosed in a wood framed vestibule sheathed with plywood siding and glass panels. CMU addition was constructed on the west side of the building.

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Flat concrete roof

Degree of Pitch/ Slope

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☑

Other Roof Materials

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning

# of Each Window Type/ Comments Windows coated with a metallic reflective material.

Glass Type Clear ☐ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern Windows are 1-light and 3-light steel framed.

Door Type

Personnel Door Types — Exterior: Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐ Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐ Louvered ☐ Painted ☐

Personnel Door Types — Interior: Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☐ Hollow Metal ☑ Solid Wood ☑ 1/2 Glazed ☑ Paneled ☐ Louvered ☐ Painted ☐

Equipment Door Types — Exterior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐ Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐ Louvered ☐ Painted ☐

Equipment Door Types — Interior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐ Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐ Louvered ☐ Painted ☐

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☑ Reinforced Concrete- Interior ☑ CMU- Interior ☑ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Major

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s: Other buildings within the Technical Area.

Integrity Excellent

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐

Nuclear Weapon Design and Testing ☑

Nuclear Propulsion ☐

Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐

Energy and Environment: Research and Design Projects ☑

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☑ Architectural History ☐

Recommendations/ Additional Comments: Technical Area 8 was originally called Anchor Ranch West (AW), therefore AW-21 is building number TA-8-21.

Architectural Features (elevations) Main entrance is on the east side. The building is constructed partially below grade so that the east side is two full stories in height and the west side only has the upper floor exposed.

Total sq ft 18991 Net **Architect/ Builder** Black & Veatch Consulting Engineers/ R.E. McKee

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG C-12481
Sheet 23 of 113
TA-8 (Bldg No. 88) AW-21
TA-8-21
Architectural
First Floor Plan
October 10, 1949

ENG C-12482
Sheet 24 of 113
TA-8 (Bldg No. 88) AW-21
TA-8-21
Architectural
Basement Plan
October 10, 1949

ENG C-12483
Sheet 25 of 113
TA-8 (Bldg No. 88) AW-21
TA-8-21
Architectural
Roof Plan & Details
October 10, 1949

ENG C-12484
Sheet 26 of 113
TA-8 (Bldg No. 88) AW-21
TA-8-21
Architectural
Elevations
October 10, 1949

ENG C-12485
Sheet 27 of 113
TA-8 (Bldg No. 88) AW-21
TA-8-21
Architectural
Elevations
October 10, 1949

ENG AB-226
Sheet 1 of 2
TA-8, Building 21
Architectural
Basement Floor Plan
January 13, 1994

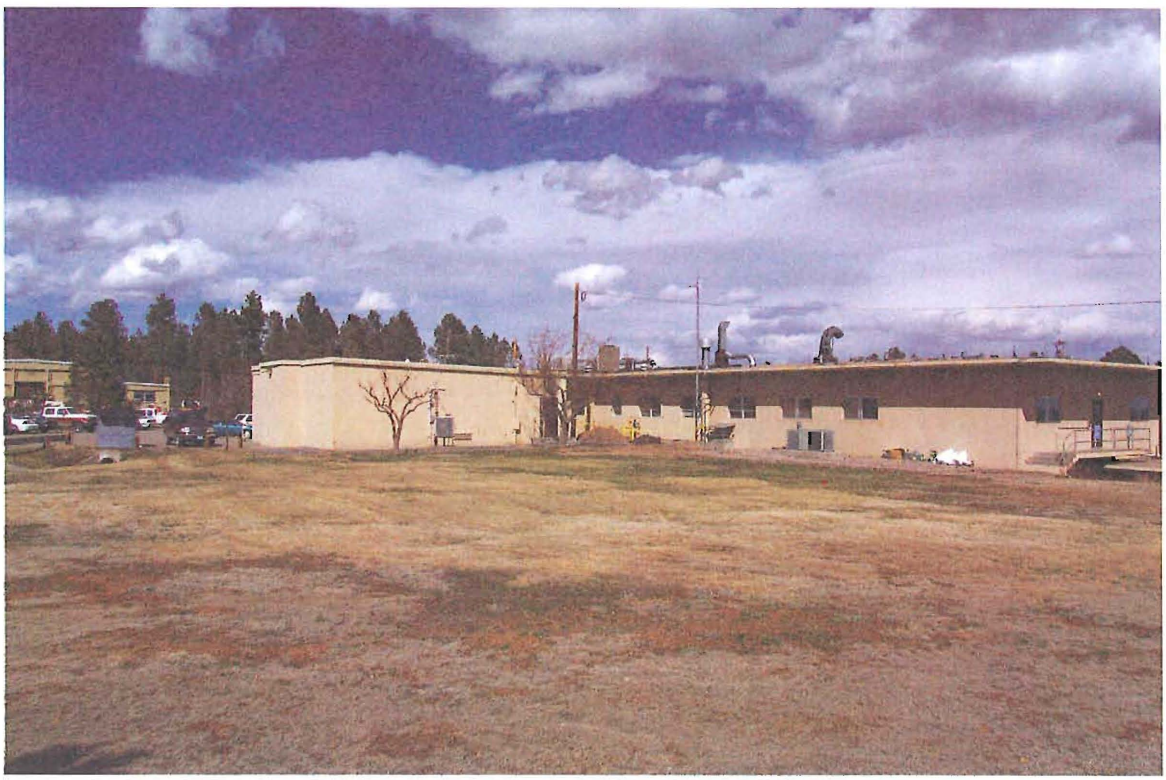
ENG AB-226
Sheet 2 of 2
TA-8, Building 21
Architectural
First Floor Plan
January 13, 1994

TA-8-21
Office Building
Sheet 1 of 2
Elevation
Cold War Era Buildings
Historic Context
August 8, 2005

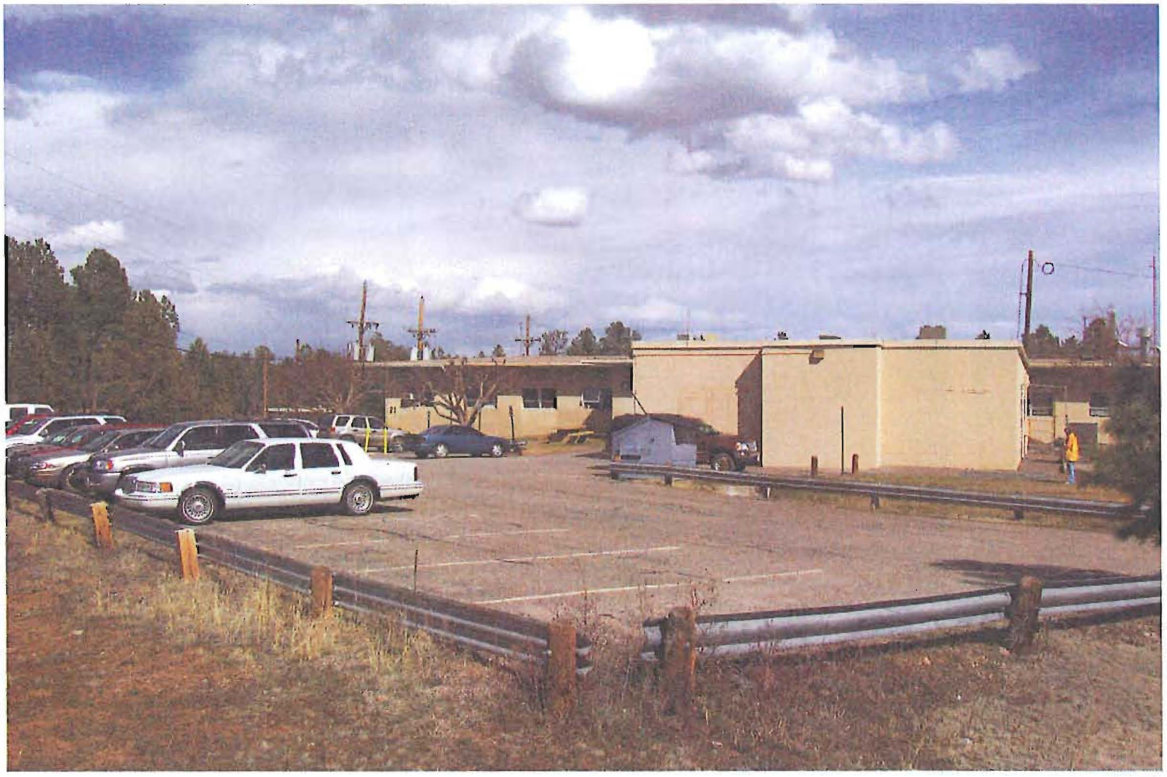
TA-8-21
Office Building
Sheet 2 of 2
Elevation
Cold War Era Buildings
August 8, 2005



TA-8-21 South and East Elevations



TA-8-21 West and South Elevations



TA-8-21 West Elevation



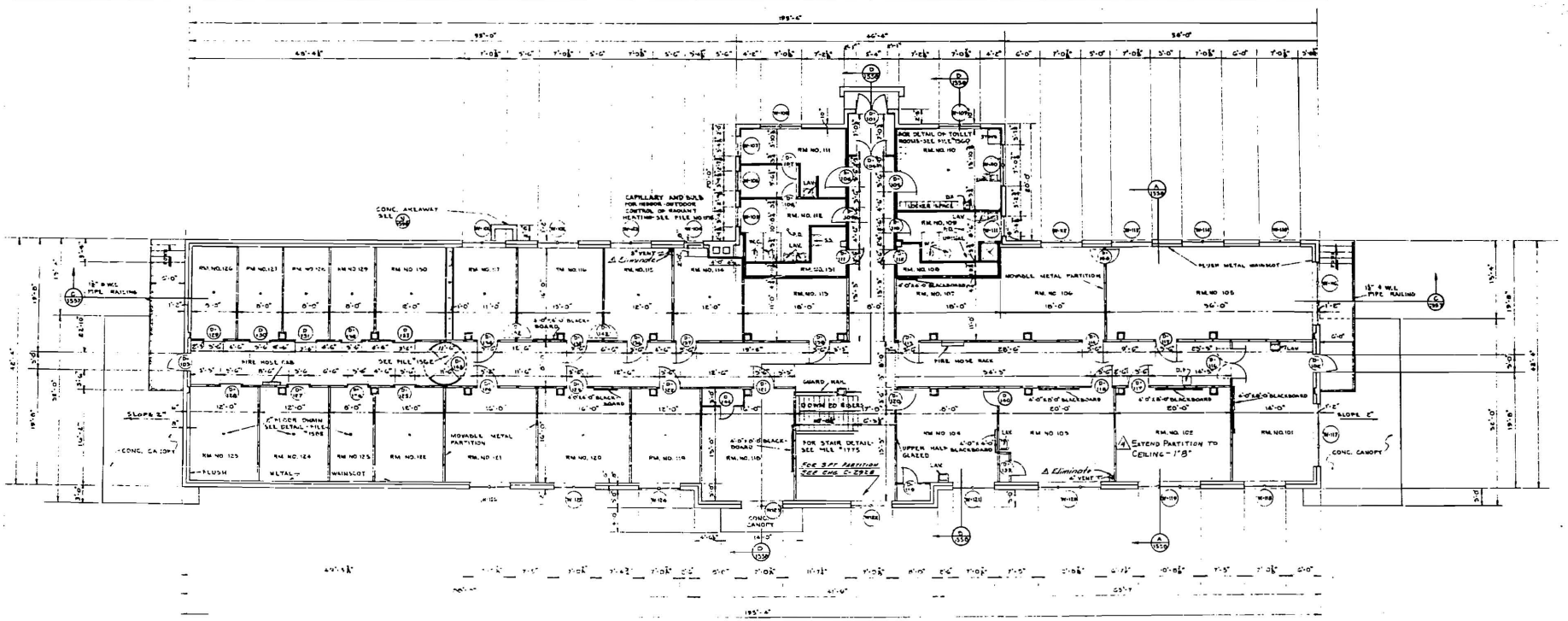
TA-8-21 North and West Elevations



TA-8-21 North Elevation



TA-8-21 East and North Elevations



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

Undistinguishable
J Bonelli 5/12/03
SAIL Class. Group

GENERAL NOTE:
ALL METAL PARTITION PANELS SHALL BE IN 5'-0", 3'-0", AND 4'-0" WIDTHS, USING 4'-0" PANELS WHEREVER POSSIBLE. SEE SHOP DWGS. ENG C-4372 FOR RESTROOM CUBICLES.

AS U[illegible] DRAWING
CITY STANDARD [illegible] NO. [illegible]
SUBMITTED [illegible]
RECOMMENDED [illegible]
APPR. [illegible]

NO.	DATE	BY	CHK	APP'D
6	10/31/67	JH	RW	
5	3-9-61	JH	RW	
4	Mod. 17	[illegible]	[illegible]	
3	Mod. 10	[illegible]	[illegible]	
2	4-5-60	[illegible]	[illegible]	
1	10/28/59	[illegible]	[illegible]	

ARCHITECTURAL (BLDG. NO. 88) AW-21
FIRST FLOOR PLAN

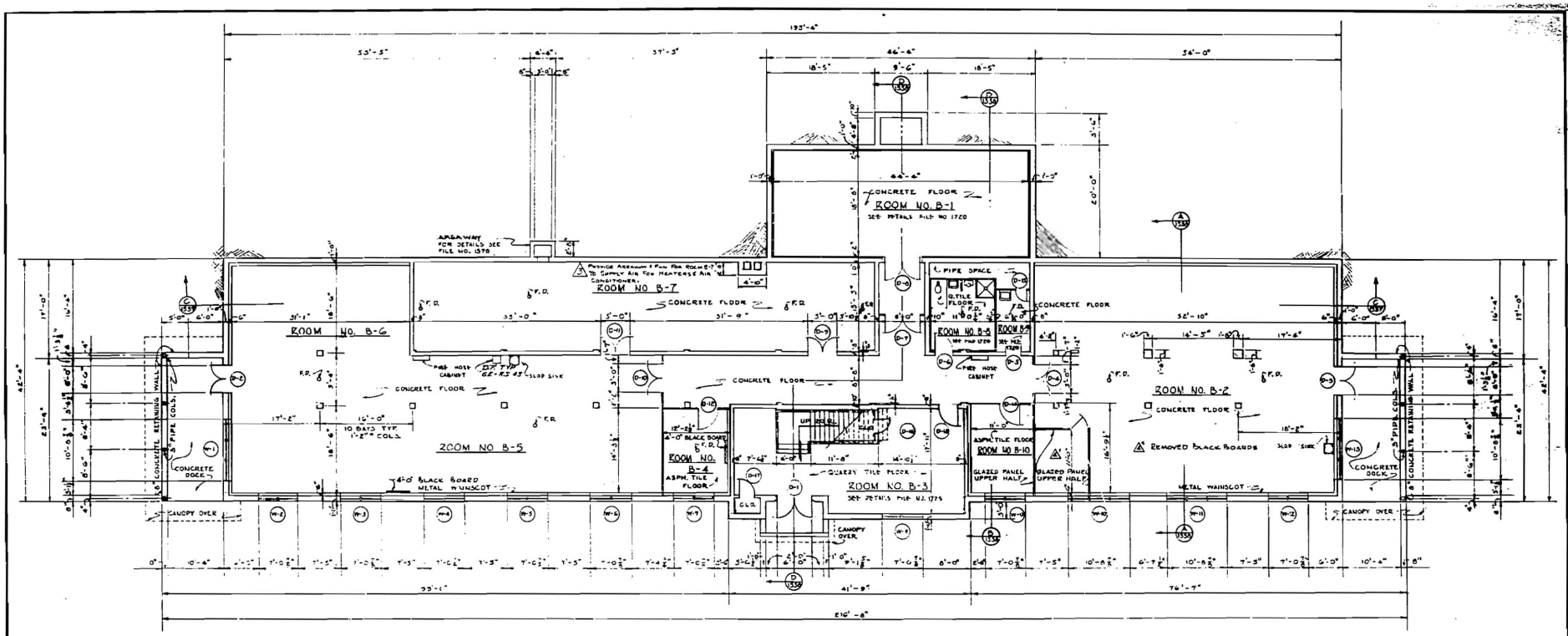
PROJECT "B"
TA-8
LOS ALAMOS NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

FILE NO. 1520
DRAWN KLT
CHECKED
APPROVED
DATE 10-24-61
SHEET 23
OF 113

A.E.C. DWG. NO. ENG-C-12481

SFA-ENG-23



BASEMENT PLAN

SCALE 1/8"=1'-0"

Install Towel & Tissue Dispensers

1775	ARCHITECTURAL - DETAIL OF STAIR & LOBBY	1594	STRUCTURAL - FIRST FLOOR PLAN
1736	ARCHITECTURAL - DOOR & WINDOW TYPES & SCHEDULES	1593	STRUCTURAL - FIRST FLOOR PLAN
1720	ARCHITECTURAL - INTERIOR DETAILS	1592	STRUCTURAL - BASEMENT & FOUNDATION PLAN & DETAILS
1715	ARCHITECTURAL - BASEMENT CEILING PLAN & DETAILS	1591	STRUCTURAL - BASEMENT & FOUNDATION PLAN
1565	ARCHITECTURAL - FIRST FLOOR CEILING PLAN	1517	ELECTRICAL LIGHTING - SOUTH PORTION BASEMENT
1563	ARCH. TECTURAL - EQUIPMENT LAYOUT	1516	ELECTRICAL LIGHTING - NORTH PORTION BASEMENT
1562	ARCHITECTURAL - DOOR & WINDOW DETAILS	1547	ELECTRICAL LAYOUT - NORTH PORTION FIRST FLOOR
1561	ARCHITECTURAL - FLOOR DETAILS	1538	ELECTRICAL LAYOUT - SOUTH PORTION FIRST FLOOR
1560	ARCHITECTURAL - INTERIOR DETAILS	1432	CIVIL - GRADING PLAN
1559	ARCHITECTURAL - EXTERIOR DETAILS	1414	CIVIL-GENERAL LAYOUT-SOUTH HALF
1558	ARCHITECTURAL - TRANSVERSE SECTIONS	1446	CIVIL - PLOT PLAN
1557	ARCHITECTURAL - LONGITUDINAL SECTION	1586	PLUMBING LAYOUT - FIRST FLOOR
1556	ARCHITECTURAL - ELEVATIONS	1582	PLUMBING LAYOUT - BASEMENT
1553	ARCHITECTURAL - ELEVATIONS	1579	AIR CONDITIONING LAYOUT - FIRST FLOOR
1554	ARCHITECTURAL - ROOF PLAN & DETAILS	1578	AIR CONDITION LAYOUT - BASEMENT
1520	ARCHITECTURAL - FIRST FLOOR PLAN	1576	RADIANT HEAT LAYOUT - FIRST FLOOR
FILE NO.	REFERENCE DRAWINGS	1575	RADIANT HEAT LAYOUT - BASEMENT

GENERAL NOTE:
ALL METAL PARTITION PANELS SHALL BE IN 2'-0", 3'-0", AND 4'-0" WIDTHS, USING 4'-0" PANELS WHEREVER POSSIBLE.

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)-224
SUBMITTED
RECOMMENDED
APPROVED

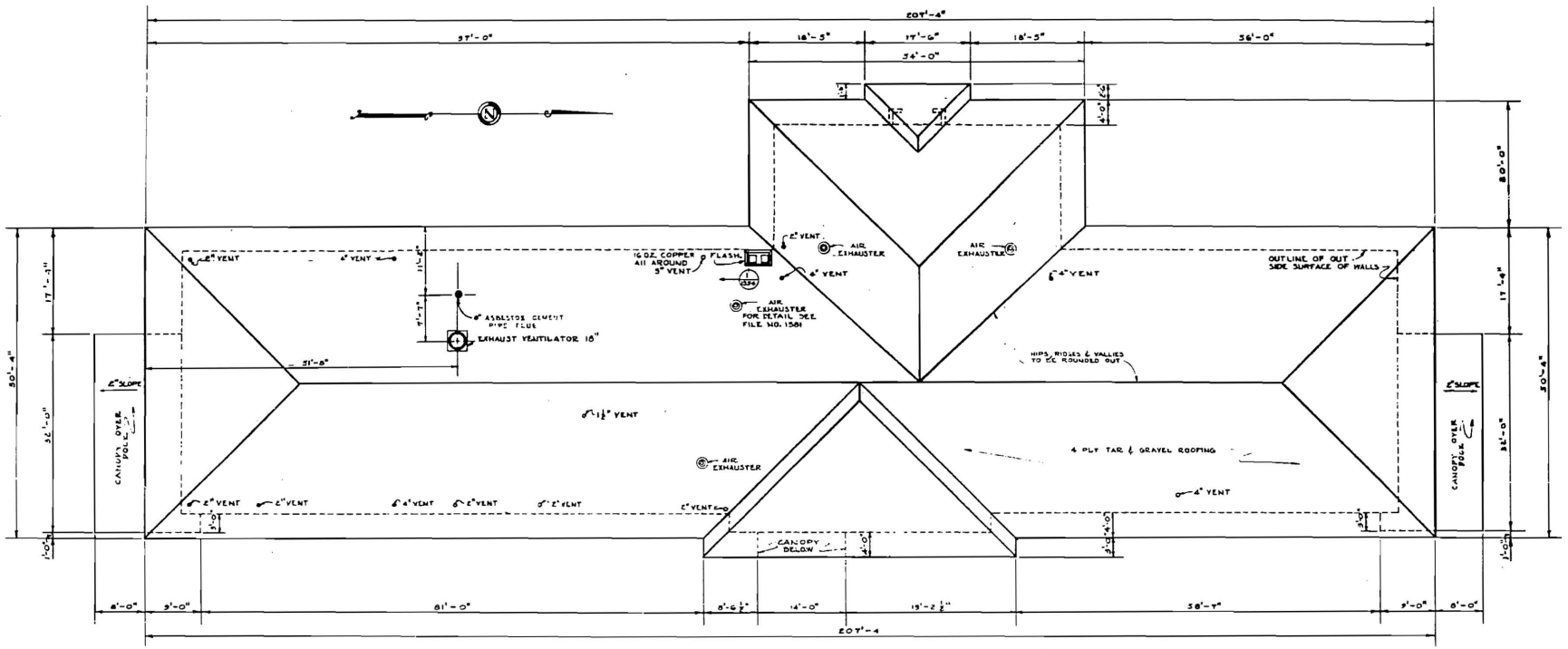
BUSEY MFG

~~FOR OFFICIAL USE ONLY~~

ARCHITECTURAL - (BLDG. NO. 88) AW-21 BASEMENT PLAN	FILE NO. 1516
PROJECT - "B"	DRAWN G.P.R.
LOS ALAMOS TA-8 NEW MEXICO	CHECKED
BLACK & VEATCH — CONSULTING ENGINEERS	APPROVED
	DATE 10-18-44
	SHEET 24 OF 113

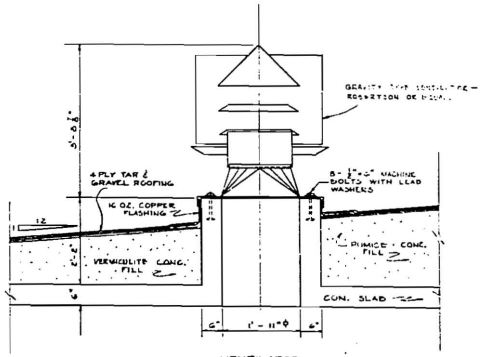
L.A.S.L. DWG. NO. ENG-C 12482

SF 1776-24



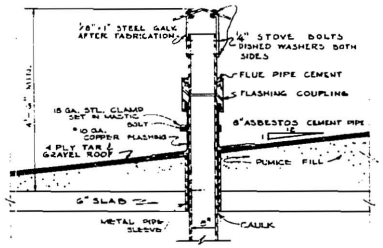
ROOF PLAN

SCALE 1/8"=1'-0"



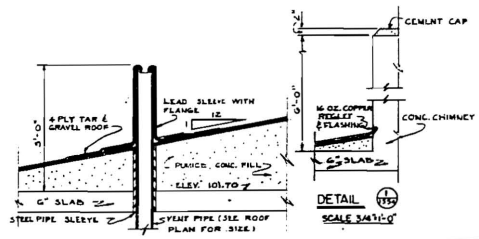
VENTILATOR

SCALE 3/4"=1'-0"



FLUE FOR DUCT HEATER

SCALE 3/4"=1'-0"



TYPICAL FLASHING FOR VENT PIPES

SCALE 3/4"=1'-0"

Approved 5/10/03

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. DACW47-01-D-0044

SUBMITTED BY Black & Veatch

RECOMMENDED Randy Rowe

APPROVED

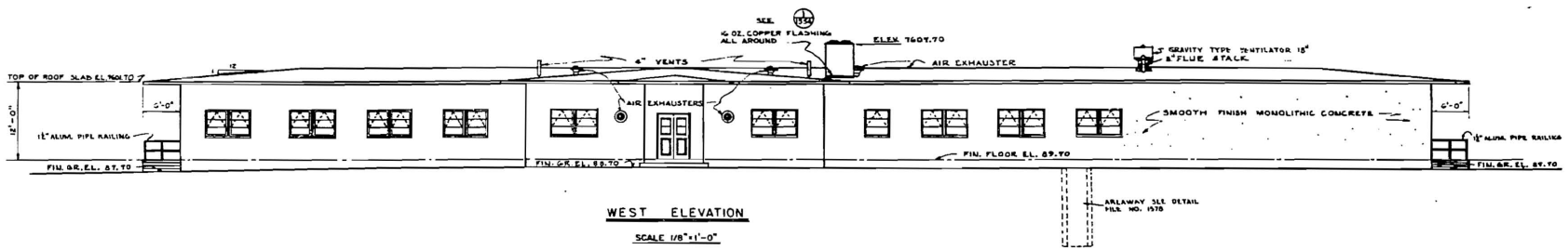
FOR OFFICIAL USE ONLY

SCALE AS NOTED

ARCHITECTURAL (BLDG NO 88)AW-21 ROOF PLAN & DETAILS		FILE NO.	1554
PROJECT "B"		DRAWN	G.P.R.
LOS ALAMOS TA - 8 NEW MEXICO		CHECKED	
BLACK & VEATCH — CONSULTING ENGINEERS		APPROVED	
		DATE	10-18-44
		SHEET	25
		OF	113

USWE NO. ENG-C 12483

SFA-FG-25



WEST ELEVATION

SCALE 1/8"=1'-0"



EAST ELEVATION

SCALE 1/8"=1'-0"

Unclassified/Not UCNI

5/12/03

LANL Class. Group

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. 21(2001)44

SUBMITTED

RECOMMENDED

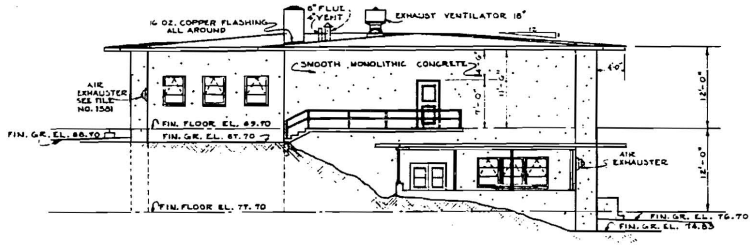
APPROVED

FOR OFFICIAL USE ONLY

				ARCHITECTURAL — BLDG. NO. (88)M-21 ELEVATIONS	FILE NO. 1555
				PROJECT — "B" TA — 8 LOS ALAMOS NEW MEXICO	DRAWN G.P.R. CHECKED APPROVED
				BLACK & VEATCH — CONSULTING ENGINEERS	DATE 10-18-44
				SUBMITTED 10/31/44	SHEET 26

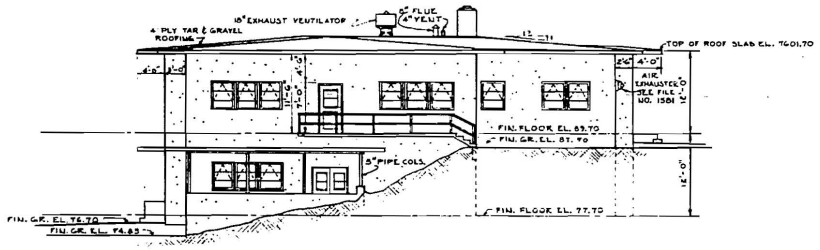
ALL PWL NO. ENG-C 12484

SFA-FG-26



SOUTH ELEVATION

SCALE 1/8"-1'-0"



NORTH ELEVATION

SCALE 1/8"-1'-0"

Unclassified/Not UCNI
S Brockwin 5/12/03
LANL Class. Group date

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)244
SUBMITTED C. J. Hancock
RECOMMENDED
APPROVED

~~FOR OFFICIAL USE ONLY~~

ARCHITECTURAL – BLDG. NO. (88) AIV-21
ELEVATIONS
PROJECT "B"
LOS ALAMOS TA-8 NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS

FILE NO. 1556
DRAWN C.P.R.
CHECKED
APPROVED
DATE 10-16-61
SHEET 27

1 WHAT AS-BUILT'D 6/8 TO REVISION RECD'D TO STAPLE OF 2/6/63
2 LOSM AS-BUILT 9/6 NO REVISIONS NEED'D ON ARCHIVE STATUS

G.E.L. DWG. NO. ENG-C 12485

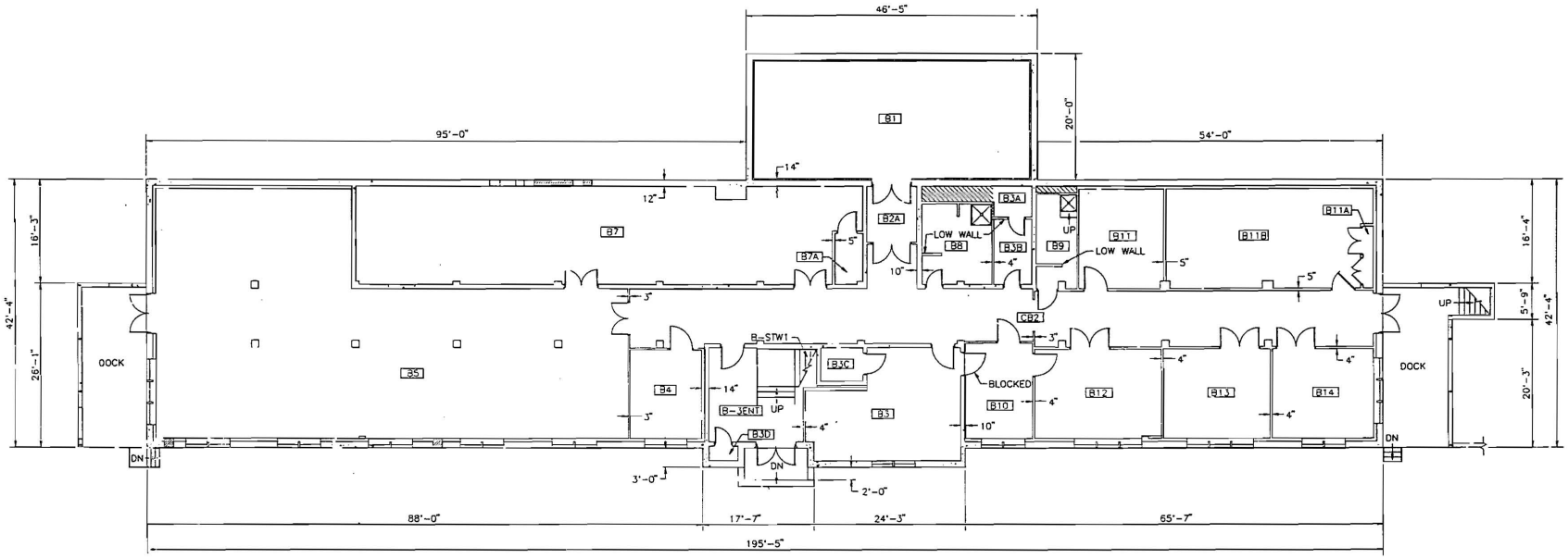
SFA-F6-27

ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
B1	839	B-3ENT	183	B11	212
CB2	1153	B4	175	B11A	18
B2A	83	B5	2276	B11B	498
B3	395	B7	1233	B12	285
B3A	37	B7A	43	B13	243
B3B	69	B8	153	B14	233
B3C	47	B9	104	B-STW1	76
B3D	12	B10	171	UTILITY	46

TOTAL ROOM NET SQUARE FOOTAGE = 8,585

GROSS SQUARE FOOTAGE = 9,291



NOTES:

1. ALL EXTERIOR WALLS ARE 18" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R2616.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.

LEGEND

BRICK
CONCRETE
CONCRETE BLOCK
LOUVER
UTILITY SPACE
WINDOW
WOOD OR METAL STUD
COLUMNS

BASEMENT FLOOR PLAN

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

8 4 2 0 8 16 32
GRAPHIC SCALE

N

FIELD VERIFIED 12-17-93

MF	NO	DATE	CLASS REV	DESCRIPTION	DWN	VER	CHKD	REL	SUB	REC	APP

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
EXPLOSIVES TECHNOLOGY AND APPLICATIONS
ARCH: BASEMENT FLOOR PLAN

DRAWN: S. GALLEGOS
VERIFIED: T.G / S.G
CHECKED: C. SANDOVAL
RELEASED: H. SALAZAR
DATE: 01-13-94

BLDG 21 (A-8)

SUBMITTED: JERRY FORTE
RECOMMENDED: FRED THOMPSON
APPROVED: FRED THOMPSON

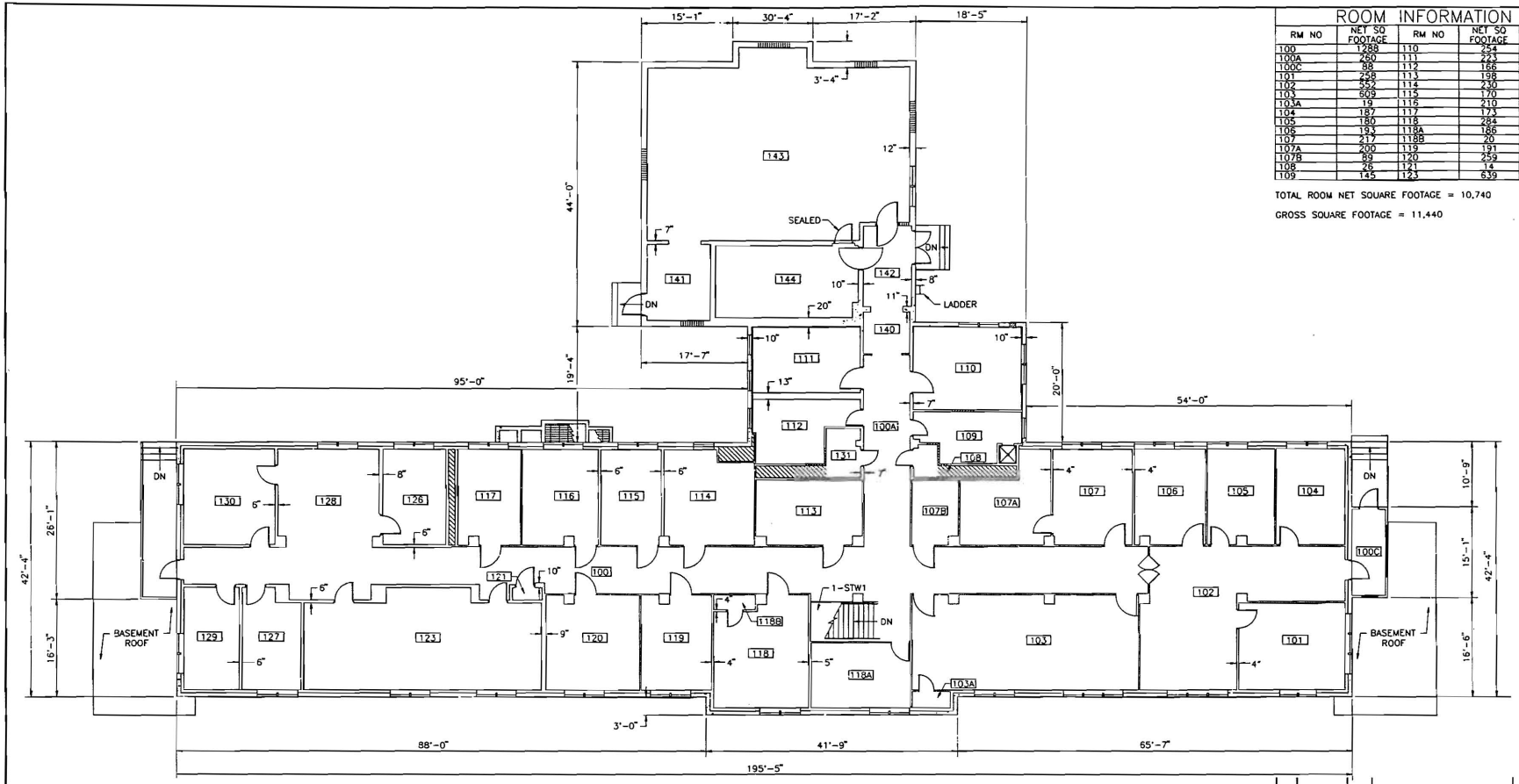
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 2

CLASSIFICATION: U REVIEWER: H. SALAZAR DATE:

PROJECT ID: 7556
DRAWING NO: AB226
REV:

JCI NO 9-111



ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
100	1288	110	254	126	178
100A	260	111	223	127	169
100C	88	112	166	128	274
101	258	113	198	129	163
102	552	114	230	130	246
103	609	115	170	131	52
103A	19	116	210	140	63
104	187	117	173	141	141
105	180	118	284	142	120
106	193	118A	186	143	1278
107	217	118B	20	144	320
107A	200	119	191	1-STW1	111
107B	89	120	259	UTILITY	97
108	26	121	14		
109	145	123	639		

TOTAL ROOM NET SQUARE FOOTAGE = 10,740

GROSS SQUARE FOOTAGE = 11,440

NOTES

1. ALL EXTERIOR WALLS ARE 14" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 3" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R2616.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.

LEGEND

BRICK
CONCRETE
CONCRETE BLOCK
LOUVER
UTILITY SPACE
WINDOW
WOOD OR METAL STUD
COLUMNS

FIRST FLOOR PLAN

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

8 6 4 2 0 8 16 32
GRAPHIC SCALE

N

FIELD VERIFIED 02-06-96

NO	DATE	CLASS REV	DESCRIPTION	DWN	VER	CHKD	REL	SUB	REC	APP
MF 1	02/06/95	TAC	FLOOR PLAN REV. SOUTH SIDE OF BLD.	PS	YTB	CS	CS	CV	LB	LB

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
EXPLOSIVES TECHNOLOGY AND APPLICATIONS
ARCH: FIRST FLOOR PLAN

DRAWN S. GALLEGOS
VERIFIED C.E.S / S.G.
CHECKED C. SANDOVAL
RELEASED H. SALAZAR
DATE 01-13-94

BLDG 21 TA-8

SUBMITTED JERRY FORTE
RECOMMENDED FRED THOMPSON
APPROVED FRED THOMPSON

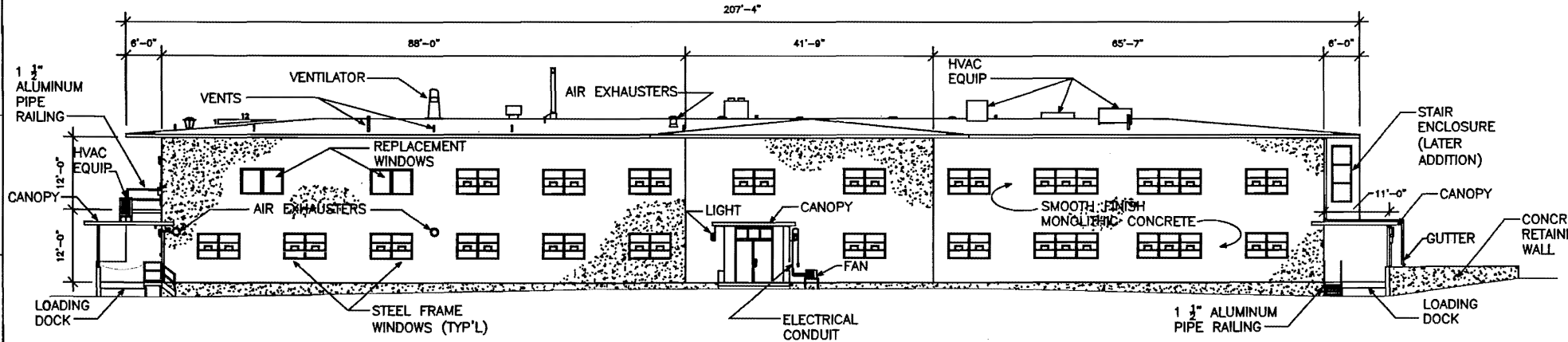
Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545

SHEET 2 OF 2

CLASSIFICATION U REVIEWER H. SALAZAR DATE 9-20-96

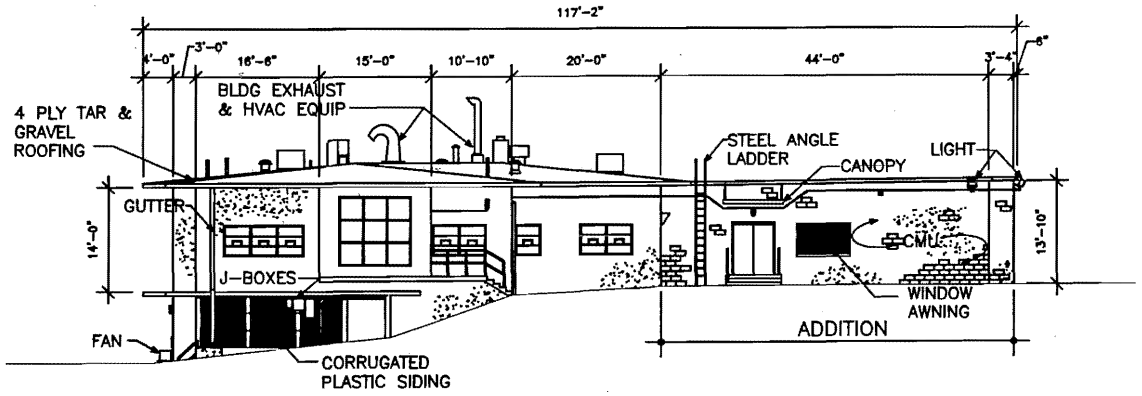
PROJECT ID 7556
DRAWING NO AB226
REV 1

JCI MO 01 011



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

1
A-1



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

2
A-1

COLD WAR ERA
HISTORIC CONTEXT

DRAWN	K. HOBG
DESIGN	—
CHECKED	K. TOWERY
DATE	AUG 05

TA-8-21 OFFICE BUILDING

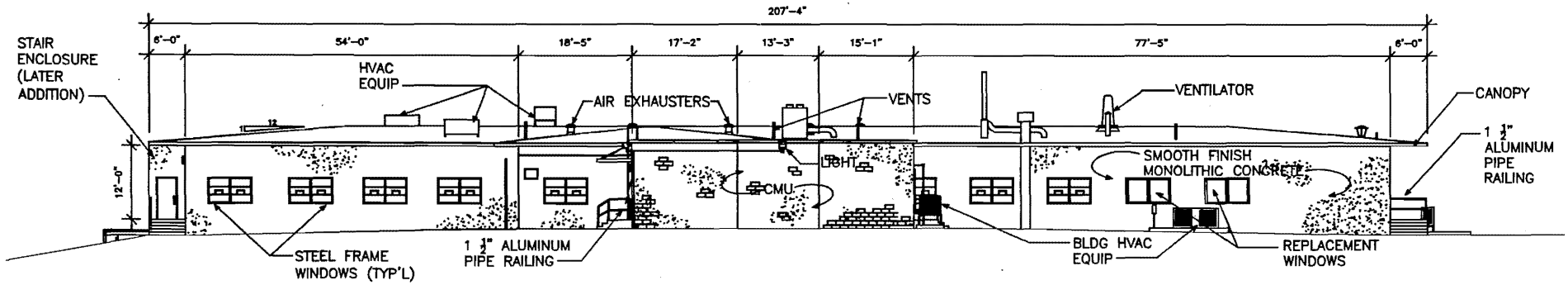
SUBMITTED | APPROVED FOR RELEASE

Los Alamos NATIONAL LABORATORY PO Box 1663 Los Alamos, New Mexico 87545

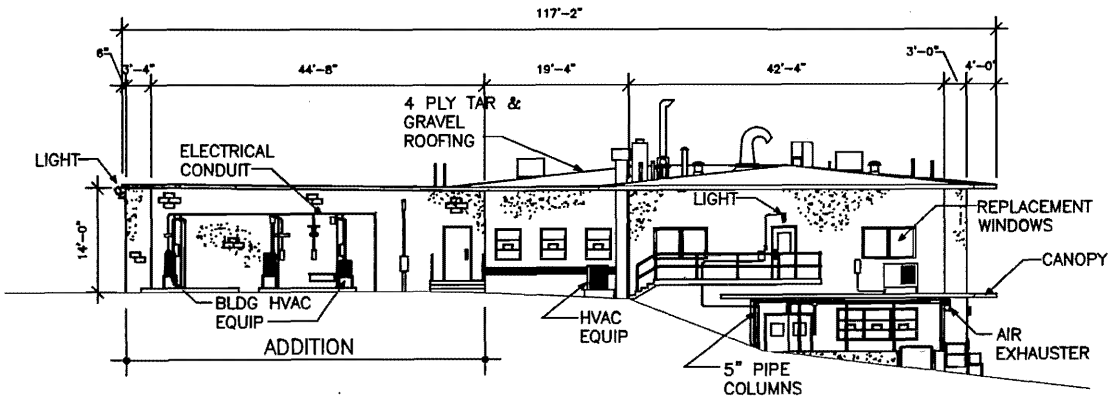
SHEET A-1

1 OF 2

CLASSIFICATION U | REVIEWER | DATE 8/10/05



WEST ELEVATION (1 / A-2)
SCALE: 1/8"=1'-0



SOUTH ELEVATION (2 / A-2)
SCALE: 1/8"=1'-0

COLD WAR ERA
HISTORIC CONTEXT

DRAWN	K. HOWD
DESIGN	—
CHECKED	K. TOWERY
DATE	AUG 05

TA-8-21 OFFICE BUILDING
SUBMITTED
APPROVED FOR RELEASE

Los Alamos NATIONAL LABORATORY
PO Box 1663, Los Alamos, New Mexico 87545

SHEET A-2
2 OF 2

CLASSIFICATION U
REVIEWER
DATE 8/10/05

LANL TA- Building # 08-0022

Camera 984242

Frame #s DCP_2458 through DCP_2463

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Non-Destructive Testing Building UTMs easting 378180 northing 3969060 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Non-Destructive Testing Building Original Use/ Function Non-Destructive Testing Building

Date (estimated) Date (actual) 1950 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction Multi-story with basement concrete building # of Stories 2

Foundation Reinforced Concrete

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Building elements include signage, amber & red warning lights, loud speakers, and surface-mounted lights. A chain link fence partially encloses the site on the north end.

Addition CMU-Addition ☑ Reinforced Concrete-Addition ☑ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition Signage, wall-mounted lights, loud speakers

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Flat

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Concrete

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☑

Other Window Type Combination of fixed and awning style.

# of Each Window Type/ Comments Banks of aluminum framed windows that are five and six units wide by seven units tall. Two banks of 2-light awning style windows.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type

Personnel Door Types — Exterior: Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐
Louvered ☐ Painted ☑

Personnel Door Types — Interior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types — Exterior: Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☑
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☑

Equipment Door Types — Interior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: Several single and double painted hollow-metal doors as well as those with 1/2-glass. Three sliding doors.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Moderate

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Good

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations) TA-8-22 is a combination building with both 1- and 2-story areas with a basement. The approximately rectangular in plan building measures 124 ft 8 in. by 47 ft 2in. Originally, the building was constructed with a 1-story entrance area flanked by two sections each containing an air terminal. The building is constructed with a concrete foundation and floor slab, concrete walls, and a flat concrete roof with cantilevered overhangs.

Total sq ft 9,956 **Architect/ Builder** Black & Veatch Consulting Engineers/Haddock Engineers Ltd. , Addition built by Zia Company.

Alterations The building received two additions during the 1960s as well as numerous upgrades over time. In 1961, an 18 ft by 22 ft classified storage room was constructed adjacent to the primary entrance on the east side of the building. A 1963 addition, located on the south end of the building, is constructed with a concrete foundation, concrete masonry unit walls and a flat roof.

List of Drawings (Cntrl + Enter for para break)

ENG-C 12359
Sheet 10 of 93
TA-8 (Bldg. No. 81) AW-22
TA-8-21
Architecture Layout
First Floor Plan & Elevations
May 17, 1949

ENG-C 12371
Sheet 22 of 93
TA-8 (Bldg. No. 81) AW-22
TA-8-21
Structural Layout
First Floor Plan
April 22, 1949

ENG-C 12372
Sheet 23 of 93
TA-8 (Bldg. No. 81) AW-22
TA-8-21
Structural Layout
Basement Plan & Section
April 22, 1949

ENG-PL 619
Sheet 1 of 1
X-Ray Bldg, AW-22, TA-8
TA-8-22
Addition No. 1
Plan & Elevations
November 15, 1961

ENG-C 29207
Sheet 1 of 4
TA-8, Bldg. AW-22
TA-8-22
Addition to Non-Destructive Testing Facilities
Addition #1, X-Ray Building
Location Plan - Architecture Plan & Details
October 24, 1962

ENG-C 31305
Sheet 3 of 14
Additions to Bldgs AW-22 & AW-70
TA-8-22

Architectural - Bldg AW-22
February 1, 1963

ENG-PL 2382
Sheet 2 of 7
TA-8, AW-22
TA-8-22
Addition to Non-Destructuve Testing
Facilities
Addition #2 X-Ray Building
Floor Plan
January 9, 1964

ENG-AB 234
Sheet 1 of 2
TA-8-22
As-Built Record Floor Plan
X-Ray Building
Architecture: First Floor Plan
January 25, 1994

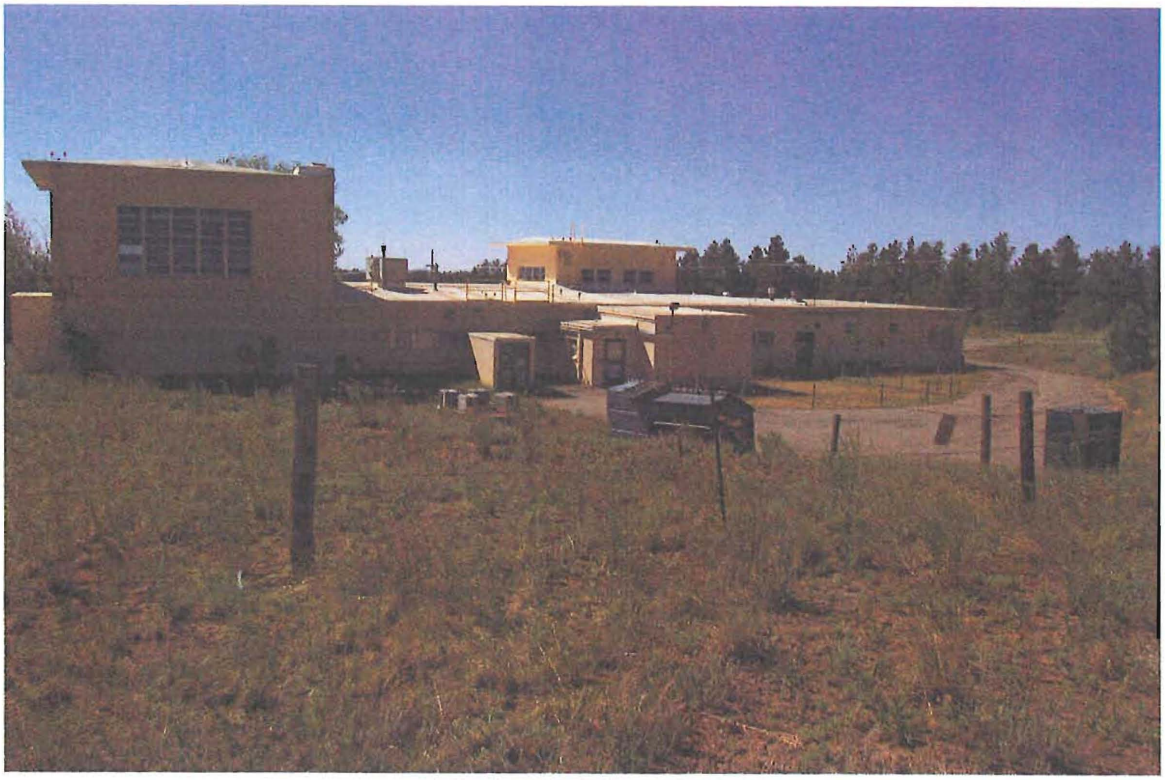
ENG-AB 234
Sheet 2 of 2
As-Built Record Floor Plan
X-Ray Building
Architecture: Basement t Floor Plan
January 25, 1994



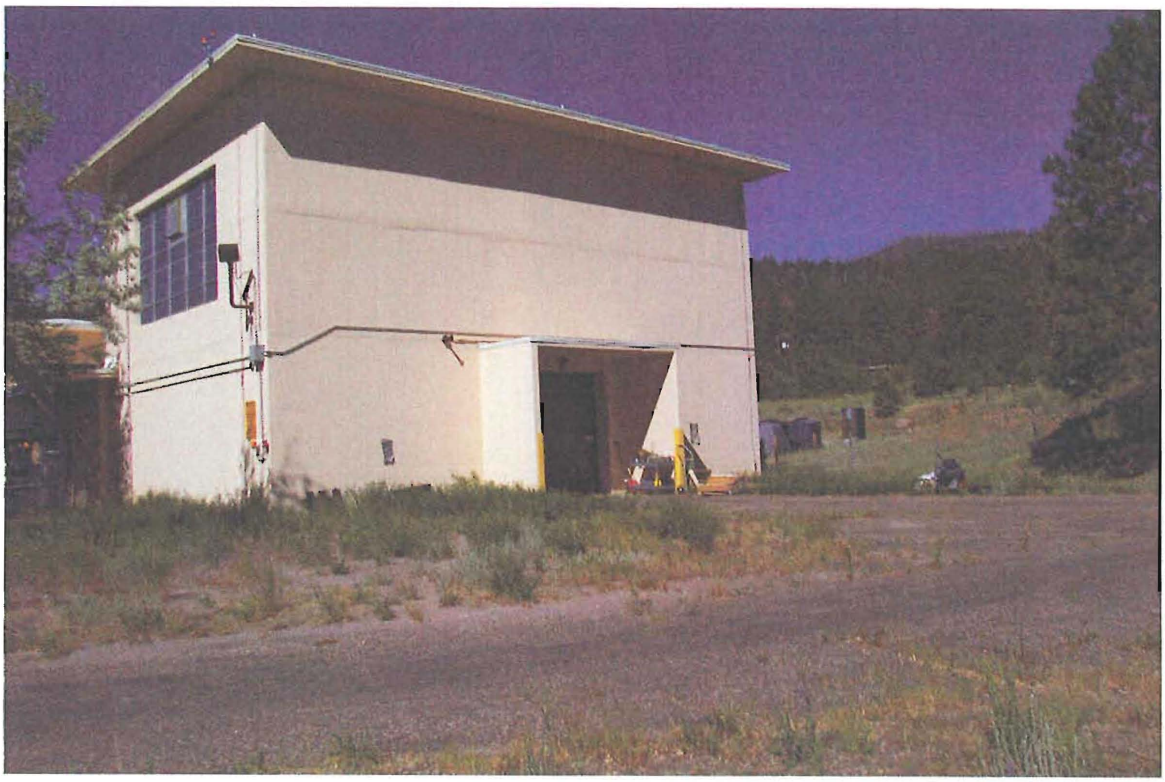
TA-8-22 Southeast Elevation



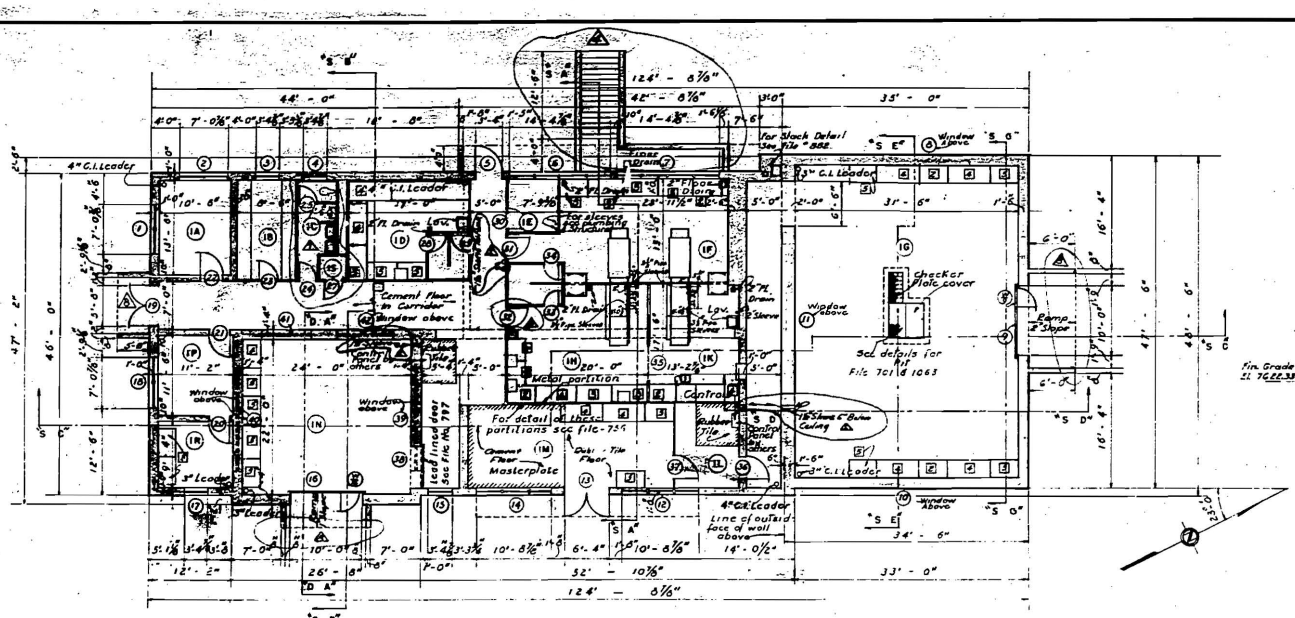
TA-8-22 Southwest Elevation



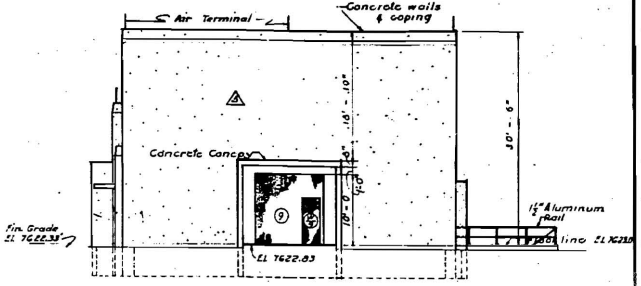
TA-8-22 Northwest Elevation



TA-8-22 Northeast

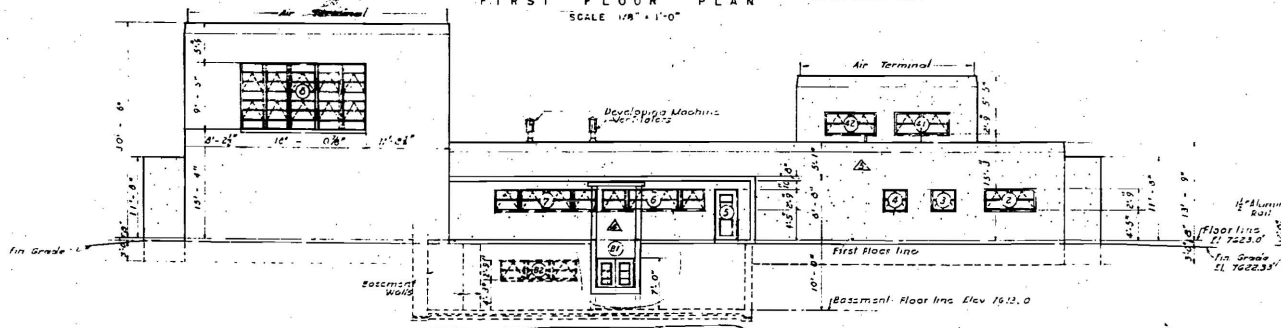


FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"
Fin. Fl. Elev. 7623.0

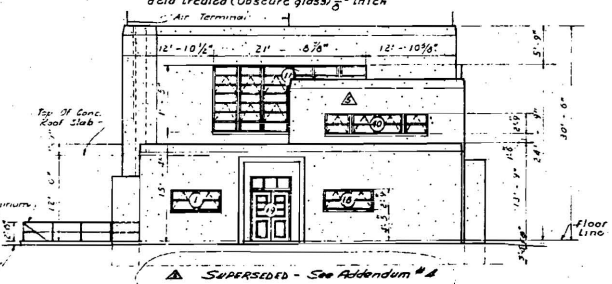


NORTH ELEVATION
SCALE 1/8"=1'-0"
⚠ SUPERSEDED - See Addendum #4

Note:-
All glass in windows Nos 8, 10, 11, 40, 41, 42 & 4
To be Mississippi, Coolite, hammered
acid treated (Obscure glass) 1/8" thick

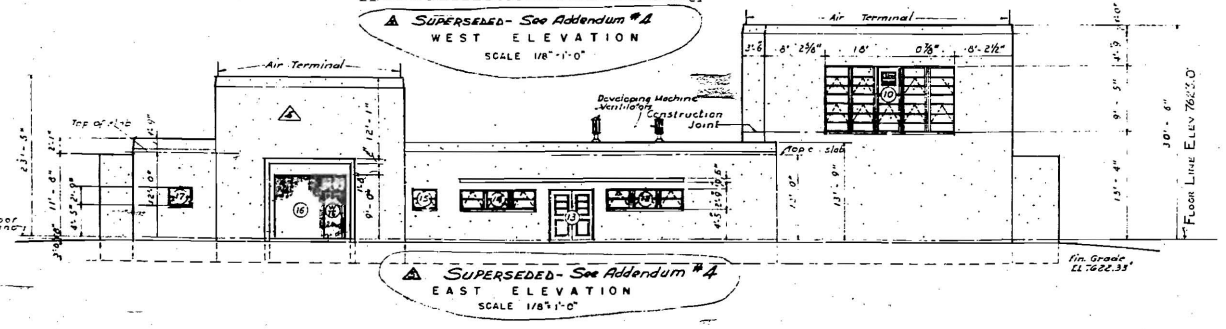


⚠ SUPERSEDED - See Addendum #4
WEST ELEVATION
SCALE 1/8"=1'-0"



⚠ SUPERSEDED - See Addendum #4
SOUTH ELEVATION
SCALE 1/8"=1'-0"

⚠ Note All exterior exposed concrete wall surfaces shall be treated with light gray color metallic waterproofing.
All exterior wall surfaces to have smooth monolithic concrete finish.



⚠ SUPERSEDED - See Addendum #4
EAST ELEVATION
SCALE 1/8"=1'-0"

NO	DATE	STATUS	BY	CK
⚠	9-25-52	ADDENDUM #2		
⚠	7-16-52	ADDENDUM #1		
5		Mod. 15 C.O. 52		
7		Mod. 25 C.O. 52		
6		Mod. 15 C.O. 52		
5				
4		Mod. 16		
3		Mod. 22 C.O. 52		
2		Mod. 17 C.O. 52		
1		Mod. 6 C.O. 52		
⚠	9-25-52	AS CONSTRUCTED		

NO REVISION MADE ON AS-BUILT STATUS

AT (29-1)-762
C/A - Cooperative

AS CONSTRUCTED

SCALE 1/8" = 1'-0"

ARCH. LAYOUT
FIRST FLOOR PLAN & ELEV. BLDG NO.(81)

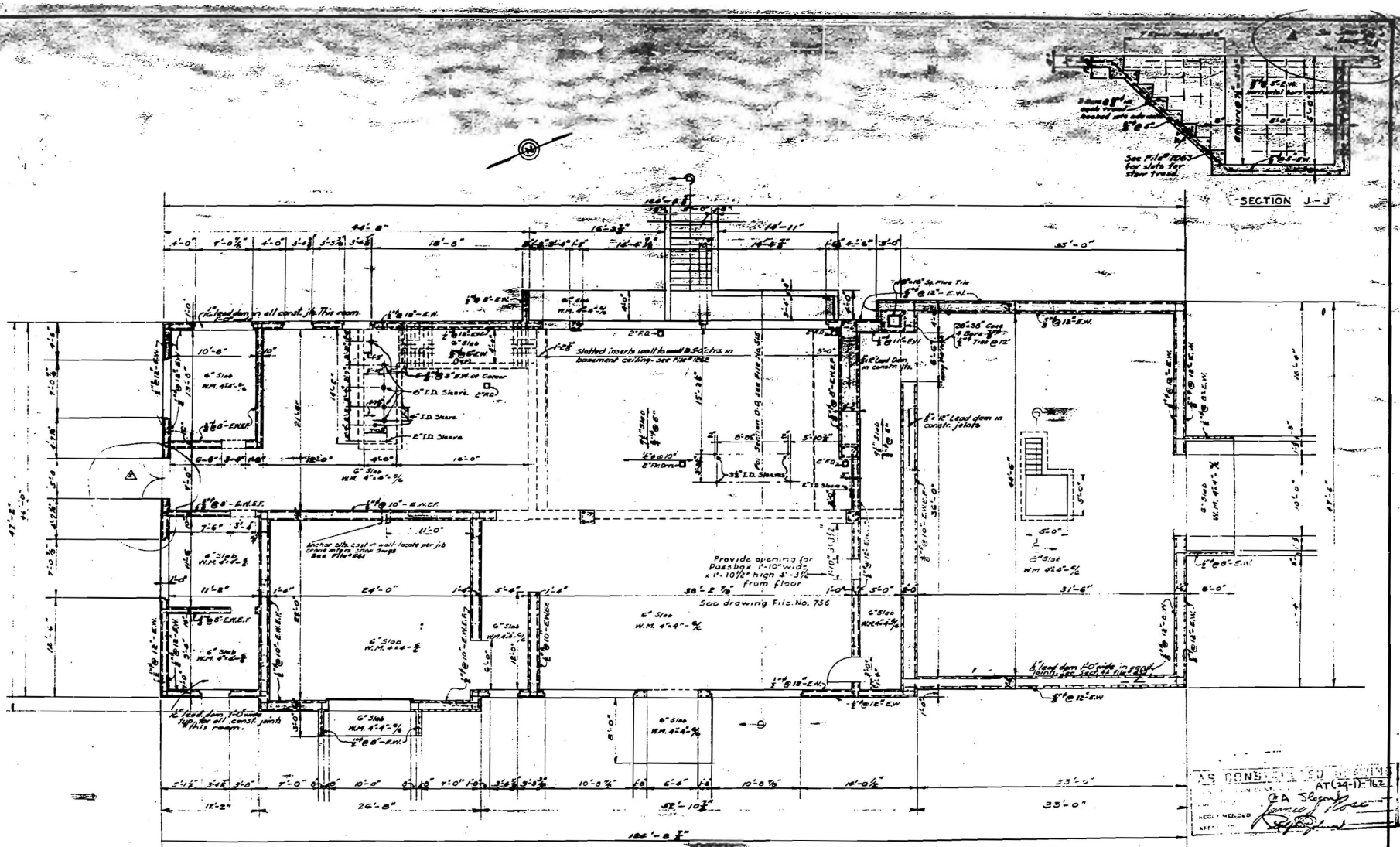
TA-8

LOS ALAMOS NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

FILE NO.	492
DRAWN	G.W.P.
CHECKED	
APPROVED	E.C.
DATE	5-17-49
SHEET	10
OF	93

L.A.S.L. DWG. NO. ENG-C 12359 SFA-DY-1/108



GENERAL NOTES

1. All concrete shall be type A and shall develop a strength of 3000 psi at 28 days.
2. W x X lb. of cement dispersed with each sack of cement used.
3. Reinforcing steel shall be intermediate grade deformed bars.
4. Exterior and interior walls shall be smooth finish.
5. All floor slabs shall be given a smooth, integral cement finish.
6. Bond reinforcing steel by welding at 3'-0" intervals in each direction. Bond all other metal to reinforcing steel by direct weld or suitable metal straps.
7. Connect reinforcing to grounding system with #1/0 bare stranded copper cable.
8. Foundation walls may be poured without forming where trenches are cut to size.
9. Foundations shall be carried to firm bearing at least 3'-0" below finish grade and a minimum excavation of 12" into rock (Turf).
10. Provide concrete inserts as reqd by electrical dwgs.
11. Provide sleeves for piping and conduit passing thru conc. walls, floors & ceilings. Sleeves shall be 1" I.D. larger than pipe or conduit.

⚠ Paint all concrete floors of first floor & not including mezzanine floor with concrete floor enamel. Paint floor in room 1A also.

Note: General Contractor shall provide and install concrete inserts and pipe sleeves as shown on electrical and piping drawings.

REFERENCE DRAWINGS

Plot Plan	File # 1127
General Layout	File # 1129-1130
General Facilities Layout	File # 337
Basement and Roof Plans	File # 378
1st Floor Plan & Elevations	File # 402
Sections & Details	File # 541
Sections	File # 663
Sections	File # 701
Sections	File # 815
Plan & Details - Dark Room	File # 756
Plan - Room 1-G	File # 982
Distilled Water & Chem. Piping	File # 1064
Pkg. cement & Boiler Piping Plan	File # 1162
Details	File # 1217

NO	DATE	STATUS	BY	CK	REVISIONS
⚠	9-9-57	As Built	DGT	JB	Per Revision Drawings Re Road Turning Or 30937
⚠	12-31-58	AS-BUILT	TNG		NO REVISION NEED TO ACTUAL STATUS
⚠	4-22-59			RH	Concrete Cover, Kick Plate, Threshold, Hand Rail
⚠		TA-8 Dwg. No. C-0			Add Enclosure of Well & S. Walkway
⚠					See Addendum 1 Subsurface Exploration
⚠		Mod			Paint All First Floor Rooms in TA-8

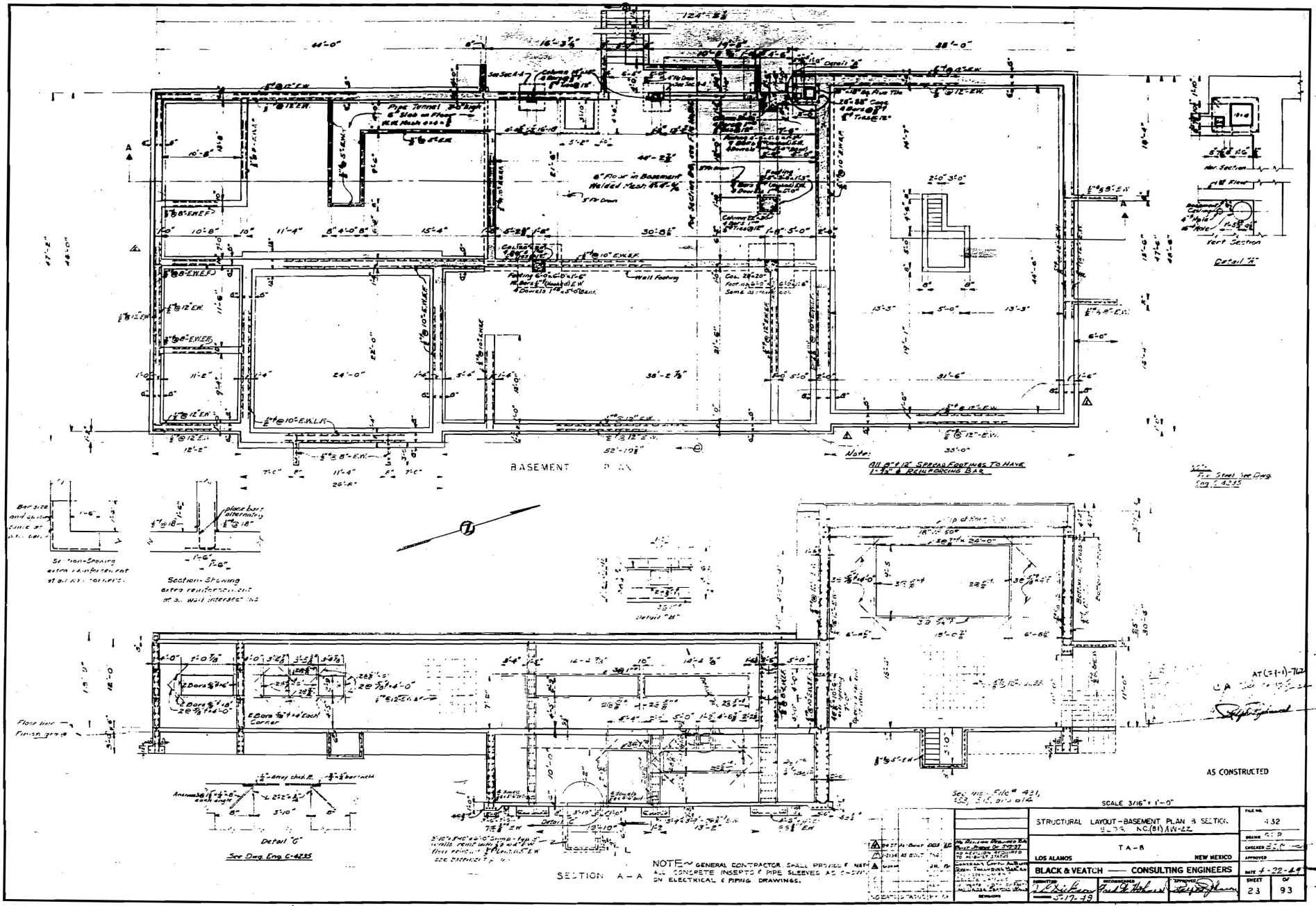
STRUCTURAL LAYOUT — FIRST FLOOR PLAN
BLDG. NO. (8)AW-22
LOS ALAMOS — TA-8 — NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS
5-17-49

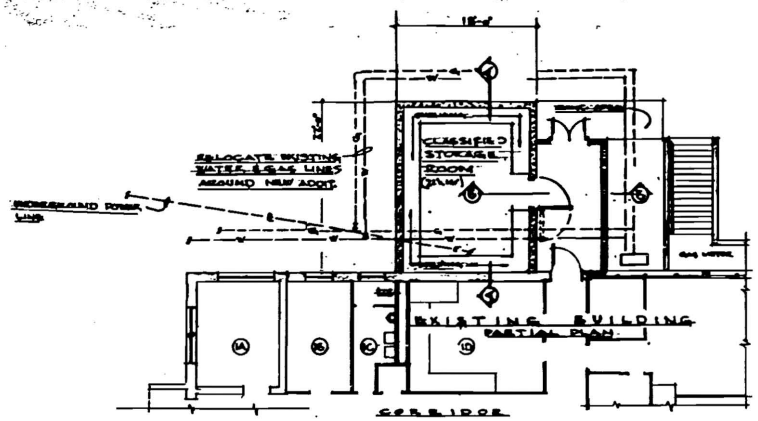
AS CONSTRUCTED
SCALE 3/16" = 1'-0"

FILE NO.	431
DRAWN	GPR
CHECKED	P.C.
APPROVED	PC
DATE	4-22-49
SHEET	22
OF	93

[redacted] L.A.S.L. DWG. NO. ENG-C 12371

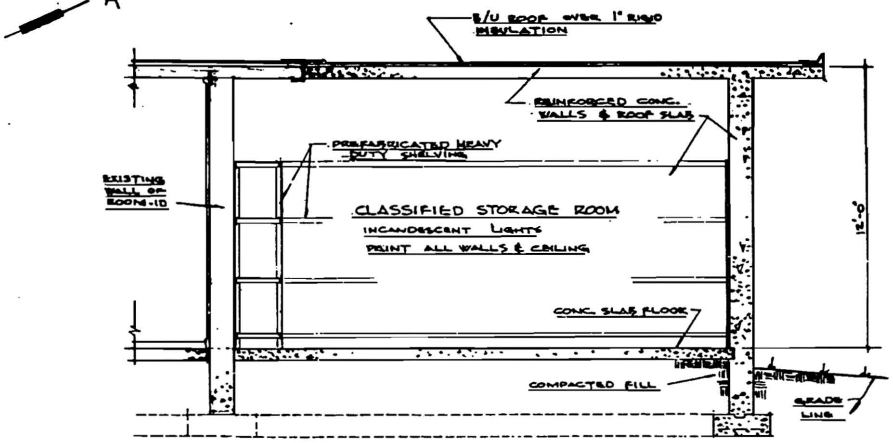
SFA-DY - 1/22/13


BASEMENT PLAN
SECTION A-A
Detail "C"
Detail "B"
Detail "A"
Note: All 8'-0" x 12" Spread Footings To Have 1-#5 & Reinforcing Bar
AS CONSTRUCTED
SCALE 3/16" = 1'-0"
STRUCTURAL LAYOUT - BASEMENT PLAN & SECTION
BLDG. NO. (81) AW-22
T A - 8
LOS ALAMOS NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS
NOTE: GENERAL CONTRACTOR SHALL PROVIDE ALL CONCRETE INSERTS & PIPE SLEEVES AS SHOWN ON ELECTRICAL & PIPING DRAWINGS.
See Dwg. Eng. C-4235
L.A.S.L. DWG. NO. ENG-C 12372
SFA-DY-1423.2



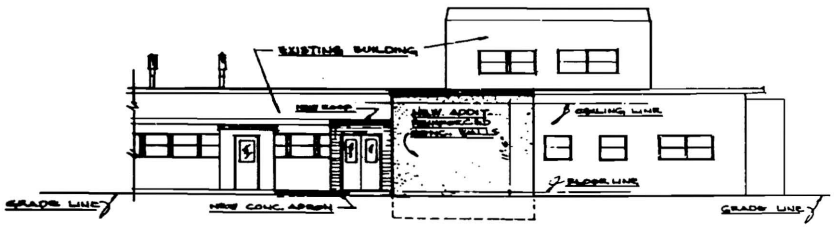
PLAN — ADDITION TO BLD'G. 81

SCALE 1/8" = 1'-0"



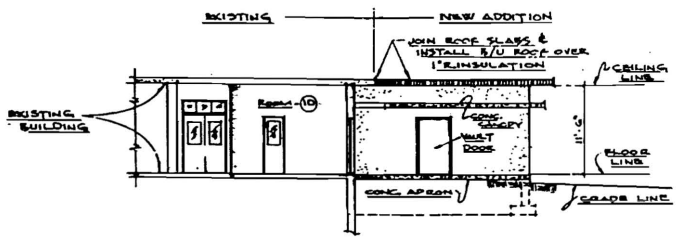
SECTION - Ⓐ - Ⓐ

SCALE 3/8" = 1'-0"



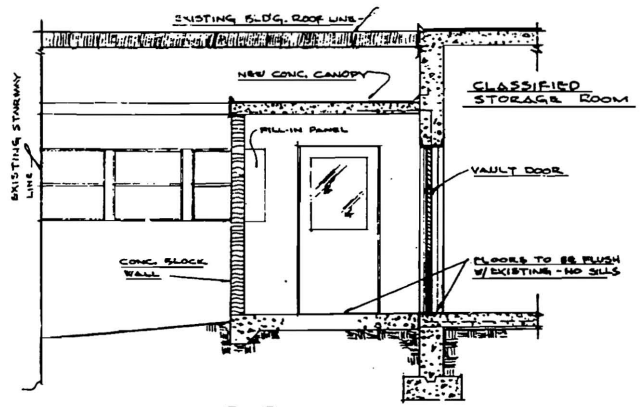
WEST - ELEVATION

SCALE 1/8" = 1'-0"



PARTIAL SECTION & NORTH ELEVATION

SCALE 1/8" = 1'-0"



SECTION - Ⓑ - Ⓑ

SCALE 3/8" = 1'-0"

NOTE!
- SEE PL-615 FOR PLOT PLAN

1-17-62	CHANGE LAB JOB NUMBER	CL	ELR	RAP		
NO.	DATE	REVISIONS	BY	CHKD	TECH	APP'D

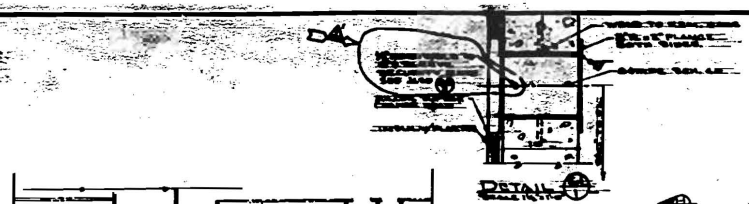
AUTHORIZED FOR
HEALTH
SAFETY
FIRE PROT.
ENGR.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

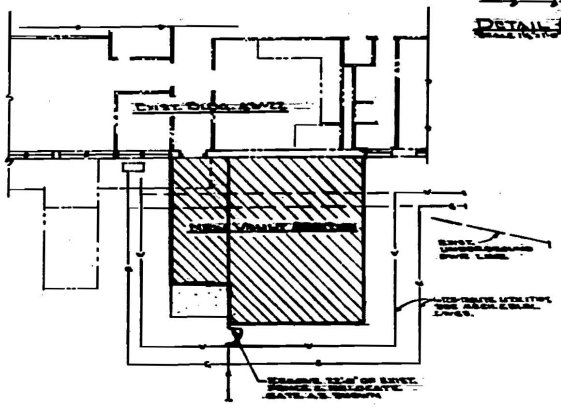
ADDITION NO. 1
PLAN & ELEVATIONS
X-RAY BLDG. AW 22 TA-8

DESIGNED		APPROVED	
DRAWN		GROUP LEADER	
TRACED		DATE	11/15/61
DESIGN		SHEET	1 OF 1
SCALE	AS NOTED		ENG-PL 619

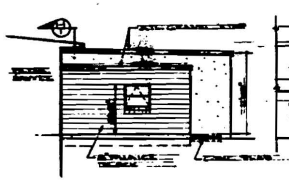
2679B-e



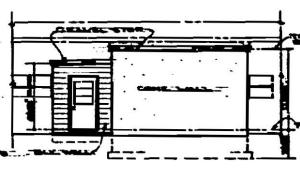
DETAIL



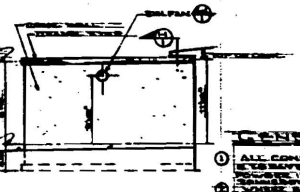
PLOT PLAN



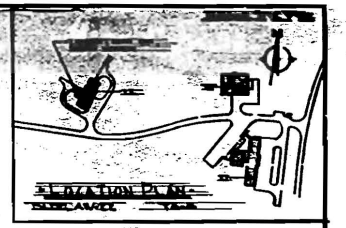
NORTH ELEVATION



WEST ELEVATION



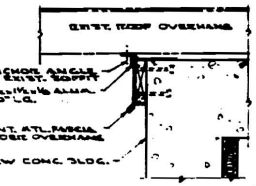
SOUTH ELEVATION



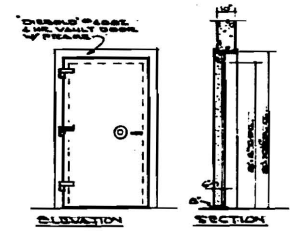
ELEVATION PLAN

GENERAL NOTES:

1. ALL CONCRETE, FOR THIS PROJECT, IS TO TEST 3 CYLINDERS TO BREAK — VAULT, REMAINING TO HAVE 7 CYLINDERS, PROVIDED BY CONTRACTOR, TO BE TESTED BY A LABORATORY APPROVED BY THE ENGINEER. CHARGES FOR ALL TESTS TO BE PAID BY CONTRACTOR. ANY CONCRETE WHICH FAILS TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS SHALL BE REMOVED AND REPLACED BY SATISFACTORY CONCRETE, ALL AT THE EXPENSE OF THE CONTRACTOR.
2. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
3. WINDOW TO BE "TRUSCON" CASEMENT, PROJECTED WINDOW, ROOF TYPE, WITH COMPLETE OPERATING HARDWARE AND SILL ANCHORS.
4. VAULT DOOR TO BE A "DIEBOLD" 4 HOUR, 3 HR. VAULT DOOR W/ FRAME, 34" x 84" OPG. PROVIDE, REQUIRED: SIGNAL BOXES.
5. PAINT EXTERIOR WORK OF BLOCK & CONC. WALLS WITH 1 COAT CONCRETE SEALER. PAINT ALL EXPOSED STEEL & CONC. OF "DULUX" LIGHT CREAM #8117. PAINT INTERIOR OF VAULT 1 COAT PRIMER, 1 COAT SEMI GLOSS WHITE. OBJECT PAINT ACID, ALKALINE OR CONC. VAULT OR STORAGE RACKS.
6. VAULT WALL INSULATION TO BE "VITROFRAX" TO OBTAIN NO SUBSTITUTION. INSTALL AS DETAILED & PER ARCH. SPECS.
7. ALL CAULKING TO BE "ENTRACAP ARMY" BY SOMA & CO. 1406 VAN DYKE AVE., SAN FRANCISCO 24, CALIF.
8. BILL "STORAGE CABINETS" 1 SHELF, 2 CAN BILL PLATE, 1 DRAW, "MILAR" PRES. WITH SHEET PAPE PARTITIONS TOGETHER WITH BINDER (DETERMINED) AS SPEC. BY WESTINGHOUSE, BLDG. Y-RAY CENTER.
9. PATCH & REPAIR WORK DISTURBED DURING CONSTRUCTION TO MATCH EXIST. ADJACENT AREAS, PARTICULARLY LAWN, PAVING, ETC.
10. PAINT DOOR NUMBERS ON DOOR FRAME ABOVE DOOR ON ENTRANCE SIDE. USE BLACK PAINT.



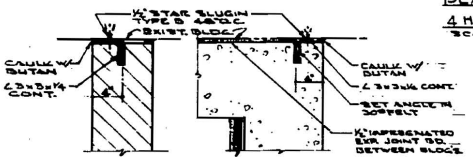
DETAIL



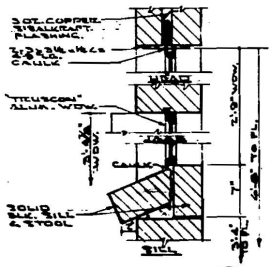
ELEVATION SECTION

PLAN

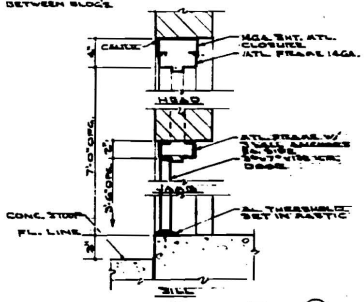
4 HR. - VAULT DOOR - DET.



DETAIL



WDW. DET.



DOOR FRAME - DET.

DOOR SCHEDULE: Door "A" 1'-3 3/4" x 7'-0" H.M. DOOR. UPPER PANEL GLAZED W/ 1/4" CLEAR WIRE GLASS

HARDWARE: "TRUSCOM"
1. LOCKSET T2756 PROACTIVE DESIGN
1½ PRS. BUTTS B88, 4½" x 4½", DULL BRONZE.
1. STOP & HOLDER, T57, DULL BRONZE, (DOOR A & B)

NOTE: REMOVE SHIT. THRESHOLD AT DOOR "A" TACK WELD BUTT PINS IN PLACE - DOOR "B" ONLY.

THIS JOB MUST BE INSPECTED AND ANY C.N.T. IS APPROVED BY ENG-4 STALLINGS PHONE 7-4886

3-15-62	RELOCATED SECURITY BAR			

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

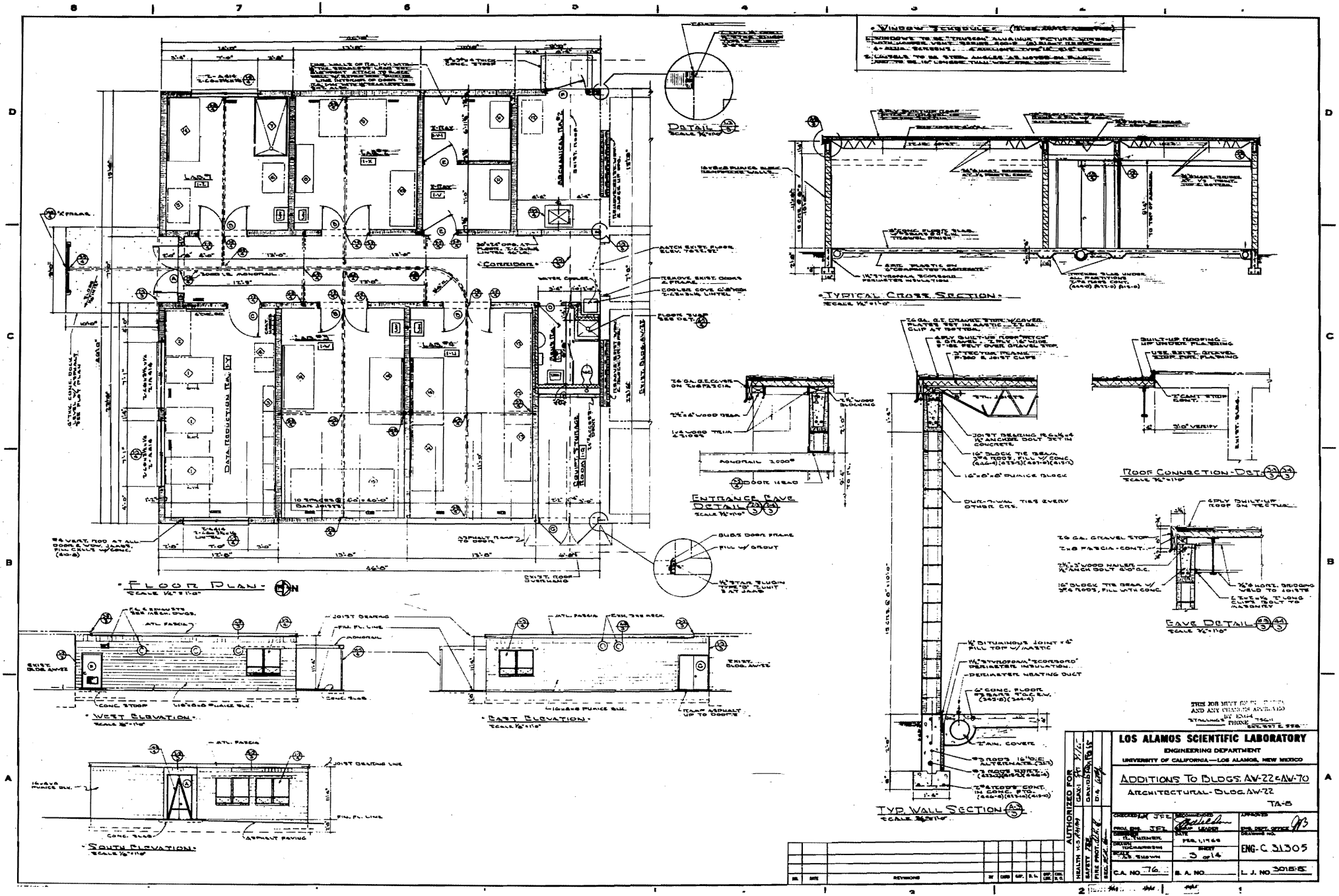
ADDITION TO NON-DESTRUCTIVE TESTING FACILITIES
ADDITION #1, X-RAY BUILDING
LOCATION PLAN - ARCH. PLAN & DET'S.
BLDG. A-22 TA-8

DESIGNED	C.H.R.	
DRAWN		
TRACED		
CHECKED		
SHEET NO.	1 of 4	ENG-C 29207

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROTECTION, ENGINEERING, CONSTRUCTION, PROJECT

REACTOR L. OCCUPANCY TO VAULT, Finish

L.A. NO. 59 LAB JOB NO. 7-6785-B



AUTHORIZED FOR			
HEALTH H.S. [illegible]	GAS	DATE 7/1/[illegible]	
SAFETY [illegible]	DRAWING NO.		
FIRE PROT. [illegible]	D.A.		
REQ. [illegible]			

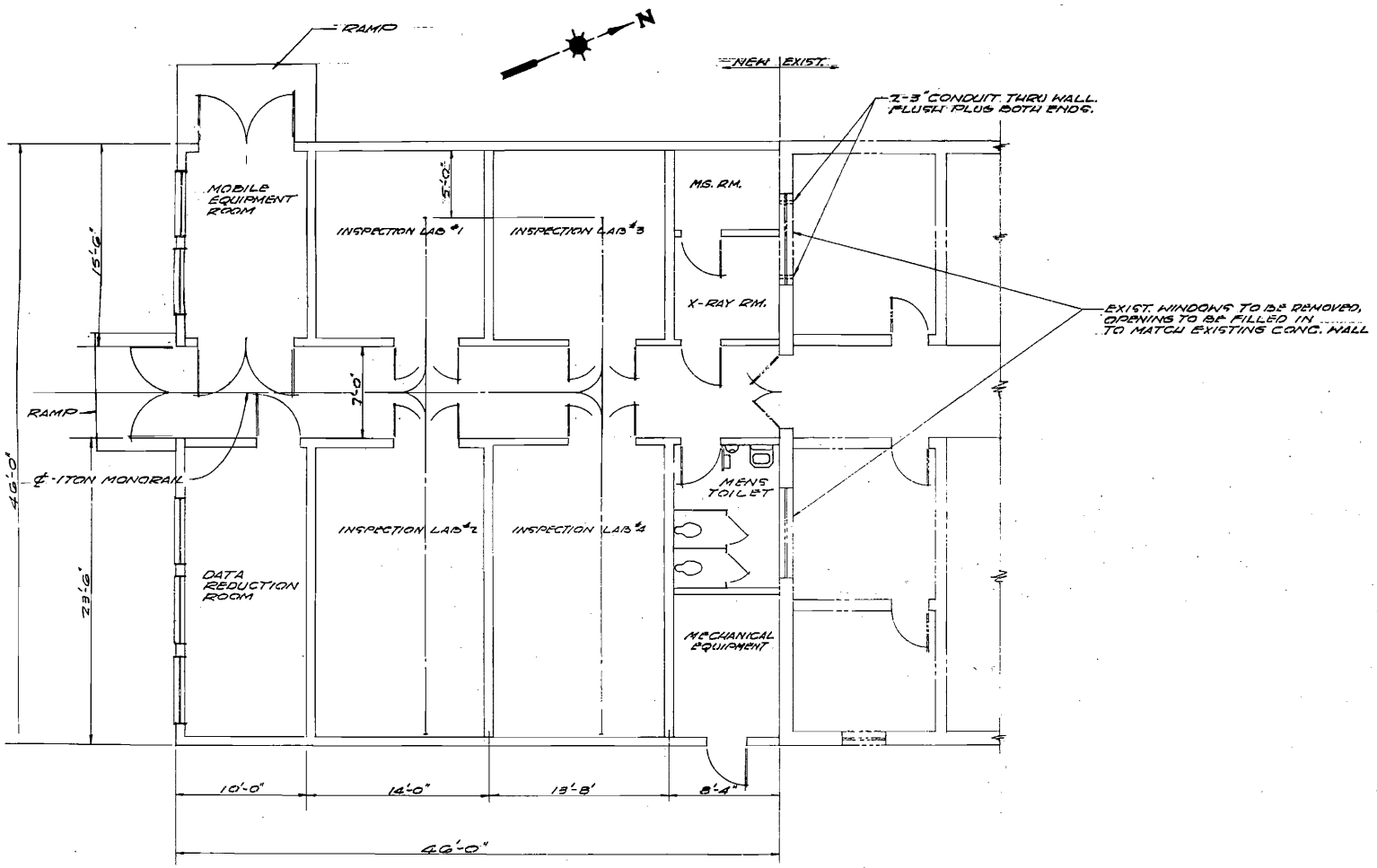
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

ADDITIONS TO BLDGS. AV-22 & AV-70
ARCHITECTURAL - BLDG. AV-22
TA-8

CHECKED J.R. JEE	RECOMMENDED [signature] GROUP LEADER	APPROVED [signature] ENG. DEPT. OFFICE	
DESIGN J.R. JEE	DATE FEB. 1966	DRAWING NO. ENG-C 31305	
DRAWN R.E. THEIMER			
TRACED R.E. THEIMER	SHEET 3 of 14		
C.A. NO. 76	B. A. NO.	L. J. NO. 3015-65	

THIS JOB MUST BE [illegible] AND ANY CHANGES APPROVED BY ENG-4 PHONE [illegible]

NO.	DATE	REVISIONS	BY	CHKD	APP'D	ENG.	ELEC.	MECH.	CIVIL



AUTHORIZED FOR CMR-1 [illegible] 7/64

HEALTH
SAFETY
FIRE PROT.
SEC.

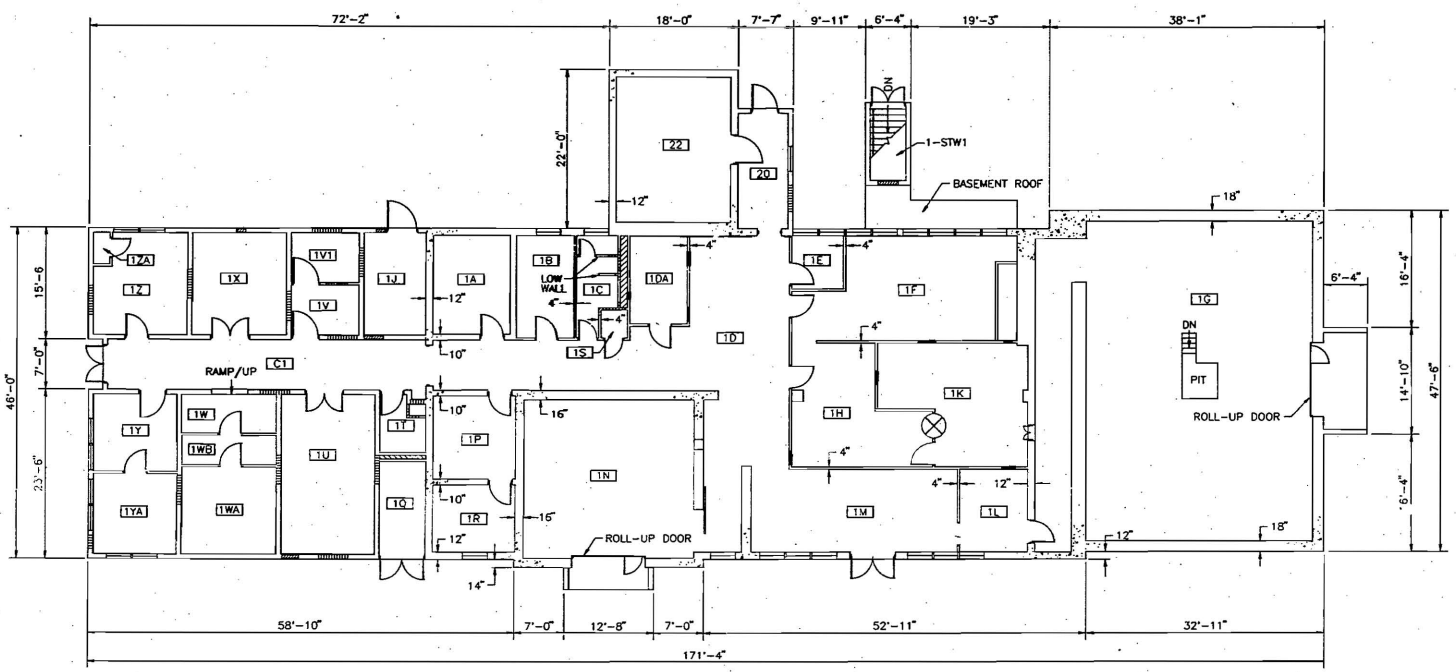
NO.	DATE	REVISIONS	BY	CHKD	EXP.	D. D.	CAP. LOR.	ENG. D. D.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

ADDN. TO NON DESTRUCTIVE TESTING FACILITIES. ADDN. NO. 2 X-RAY BLDG.
FLOOR PLAN

BLDG. AN-22 — 7A-8

CHECKED Ed Dennis PROJ. ENG.	RECOMMENDED GROUP LEADER	APPROVED ENG. DEPT. OFFICE
DESIGNER	DATE 7-9-64	DRAWING NO. ENG-7-2382
DRAWN CARROLL	SHEET 2 OF 7	
SCALE 1/4"-1'-0"	C.A. NO.	B. A. NO. L. J. NO. 3018-8



FIRST FLOOR PLAN

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

8 6 4 2 0 8 16 32
GRAPHIC SCALE

N

FIELD VERIFIED 01-14-94

ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
1A	163	1M	549	1WB	60
1B	126	1N	570	1X	199
1C	78	1P	153	1Y	144
1D	621	1Q	94	1YA	136
1DA	112	1R	121	1Z	184
1E	56	1S	17	1ZA	11
1F	426	1T	57	K1	344
1G	1734	1U	306	20	123
1H	271	1V	74	22	345
1J	136	1V1	72	UTILITY	22
1K	314	1W	80	1-STW1	51
1L	119	1WA	169	–	–

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 8,026

GROSS SQUARE FOOTAGE (THIS SHEET) = 8,556

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 9,188

GROSS SQUARE FOOTAGE (BUILDING) = 9,956

LEGEND

- BRICK
- CONCRETE
- CONCRETE BLOCK
- LOUVER
- UTILITY SPACE
- WINDOW
- WOOD OR METAL STUD
- COLUMNS

NOTES

1. ALL EXTERIOR WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R2618.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.
6. DIMENSIONS SHOWN ARE ROUNDED TO NEAREST INCH.

MF	NO	DATE	CLASS REV	DESCRIPTION	DWN	VER	CHKD	REL	SUB	REC	APP

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
X-RAY BUILDING
ARCH: FIRST FLOOR PLAN

DRAWN S. GALLEGOS
VERIFIED 3/7/95
CHECKED C. SANDOVAL
RELEASED C. SANDOVAL
DATE 01-25-94

BLDG 22 TA-8

SUBMITTED JERRY FORTE
RECOMMENDED FRED THOMPSON 6/8/94
APPROVED FRED THOMPSON 6/8/94

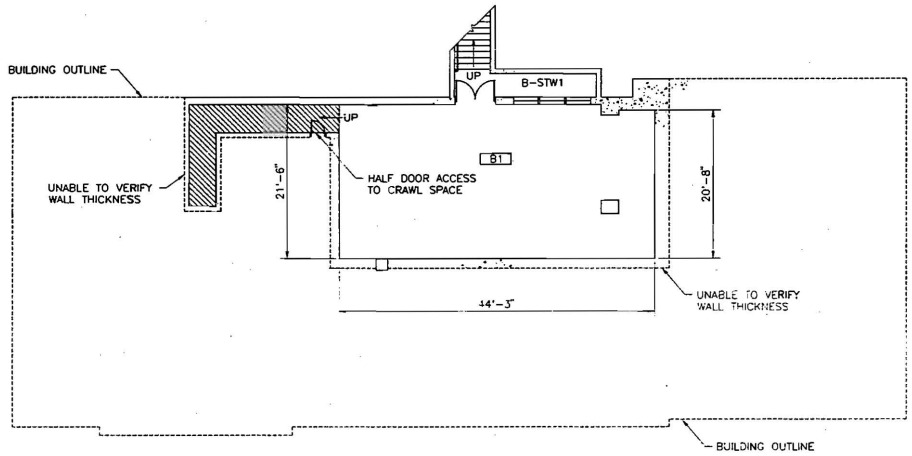
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SHEET 1 OF 2

CLASSIFICATION U REVIEWER T. GUSDORF DATE 6-8-94

PROJECT ID 7556 - DRAWING NO AB234 REV

101-6 IN JCI



BASEMENT FLOOR PLAN

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

8 6 4 2 0 8 16 32

GRAPHIC SCALE

N

ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
B1	956	B-STW1	85	UTILITY	121

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 1,162

GROSS SQUARE FOOTAGE (THIS SHEET) = 1,400

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 9,188

GROSS SQUARE FOOTAGE (BUILDING) = 9,956

LEGEND

CONCRETE
WINDOW
UTILITY SPACE
COLUMNS

NOTES

1. ALL INTERIOR WALLS ARE 12" THICK UNLESS OTHERWISE NOTED.
2. REFERENCE DRAWING ENG-R2618.
3. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
4. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.
5. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.

NO	DATE	CLASS/REV	DESCRIPTION	DWN	VER	CHKD	REL	SUB	REC	APP
1	12-19-95	U	ROOM NUMBERING CHANGES	AM	AM	CS	CS	JF	FT	FT

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
X-RAY BUILDING
ARCH: BASEMENT FLOOR PLAN

DRAWN G. GALLEGOS
VERIFIED
CHECKED
RELEASED C. SANDOVAL
DATE 01-25-94

BLDG 22 TA-8

SUBMITTED JERRY FORTE
RECOMMENDED FRED THOMPSON 1/5/96
APPROVED FRED THOMPSON 1/8/96

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 2 OF 2

CLASSIFICATION U REVIEWER T. GUSDORF DATE 1-16-96

PROJECT ID	DRAWING NO	REV
7556	AB234	1

FIELD VERIFIED 01-14-94

JOB NO 9-110-11

LANL TA- Building # 08-0023

Camera 984242

Frame #s DCP_2477 through DCP_2480

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Betatron Building UTMs easting 378223 northing 3968764 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Betatron Building Original Use/ Function Betatron Building

Date (estimated) Date (actual) 1950 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction Multi-story building # of Stories 2

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Building elements include signage, lights, and a fire extinguisher.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Hipped

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Concrete

Window Type Casement ☐ Single Hung Sash ☑ Double Hung Sash ☐ Fixed Window ☑

Other Window Type Combination of fixed and awning style.

# of Each Window Type/ Comments The 2-story area is equipped with banks of windows with awning windows set within on all sides.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern windows on all four sides of the 2-story area.

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐
Louvered ☑ Painted ☑

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☑ Double ☐ Roll-up ☑ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☑

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: Two single, one double, and one roll-up door.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐
CMU- Interior ☐ Plywood ☐ Other- Interior
In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Excellent

Significance

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐
Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐
Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations)

TA-8-23 is primarily 1-story in height with a 2-story section located in the northwest corner. The building also contains a partial basement. The building is predominately rectangular in plan and measures approximately 68 ft by 55 ft with a triangular shaped reinforced concrete wall extending out from the north side of the building by approximately 4 ft 6 in. The building is constructed with a concrete perimeter foundation and floor slab, concrete walls, and a very low pitched hipped concrete roof with 3 ft cantilevered overhangs. The partial basement contains a mechanical room and an utility trench.

Total sq ft 3264 net

Architect/ Builder Black & Veatch Consulting Engineers/Haddock Engineers Ltd.

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 12377
Sheet 27 of 93
TA-8 (Bldg. No. 82) AW-23
TA-8-23
Arch itecture Layout
First Floor Plan
May 17, 1949

ENG-C 12378
Sheet 28 of 93
TA-8 (Bldg. No. 82) AW-23
Architecture Layout
Basement & footing Plan
May 17, 1949

ENG-C 12379
Sheet 29 of 93
TA-8 (Bldg. No. 82) AW-23
TA-8-23
Architecture Layout
Elevations
May 17, 1949

ENG-C 12380
Sheet 30 of 93
TA-8 (Bldg. No. 82) AW-23
TA-8-23
Architecture Layout
Elevation & Details
May 17, 1949

ENG-12453
Sheet 7 of 12
TA-8 (Bldg. No. 82) AW-23
TA-8-23
Structural Layout
Elevations - Revisons to file #1165 & 1166
June 8, 1949

ENG-R 2619
Sheet 1 of 2
TA-8, Bldg AW-23
TA-8-23
Betatron Building
Basement Floor Plan
August 25, 1983

ENG-R 2620
Sheet 2 of 2
TA-8, Bldg AW-23
TA-8-23
Betatron Building
First Floor Plan
August 25, 1983

ENG-AB 690
Sheet 1 of 1
TA-8 Bldg. 23
As-built Record Floor Plan
Betatron Building
Architecture: Basement & First Floor Plan
August 19, 1996



TA-8-23 East Elevation



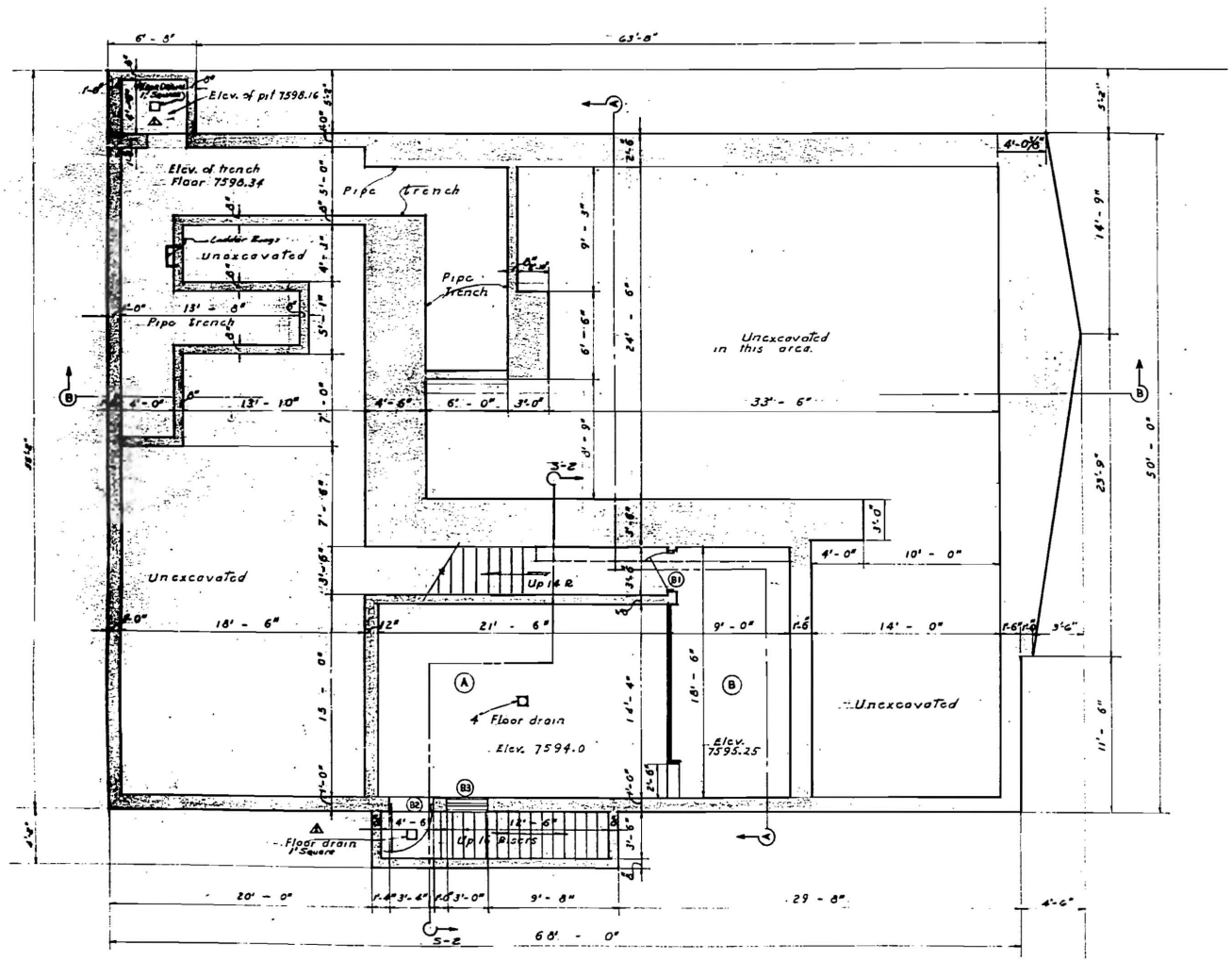
TA-8-23 South Elevation



TA-8-23 North Elevation



TA-8-23 West Elevation



BASEMENT & FOOTING PLAN

SCALE 1/4" = 1'-0"

AS CONSTRUCTED

AS CONSTRUCTION DRAWING
APPROVED
LOS ALAMOS
AT (29-1)-762
G.A. Sloan

NO	DATE	STATUS	BY	CK	REVISIONS
7	10-27-48	As Built	JOS	TB	Add Piping Between R-19 and Reactor & Add Piping to Blowers
6	7-12-48	As Built	THB		Add Piping Between R-19 and Reactor & Add Piping to Blowers
5	5-13-48		JR	RF	Construction Cooling Air Ducts, Trench & Building Floor
4	4-19-48		WBA		Redrawn
3		Mod. 3			Revised Piping to Conform to Modified System

Scale 1/4"-1'-0"

ARCH LAYOUT BLDG. NO. (82) SHEET 3
BASEMENT & FOOTING PLAN

TA-8

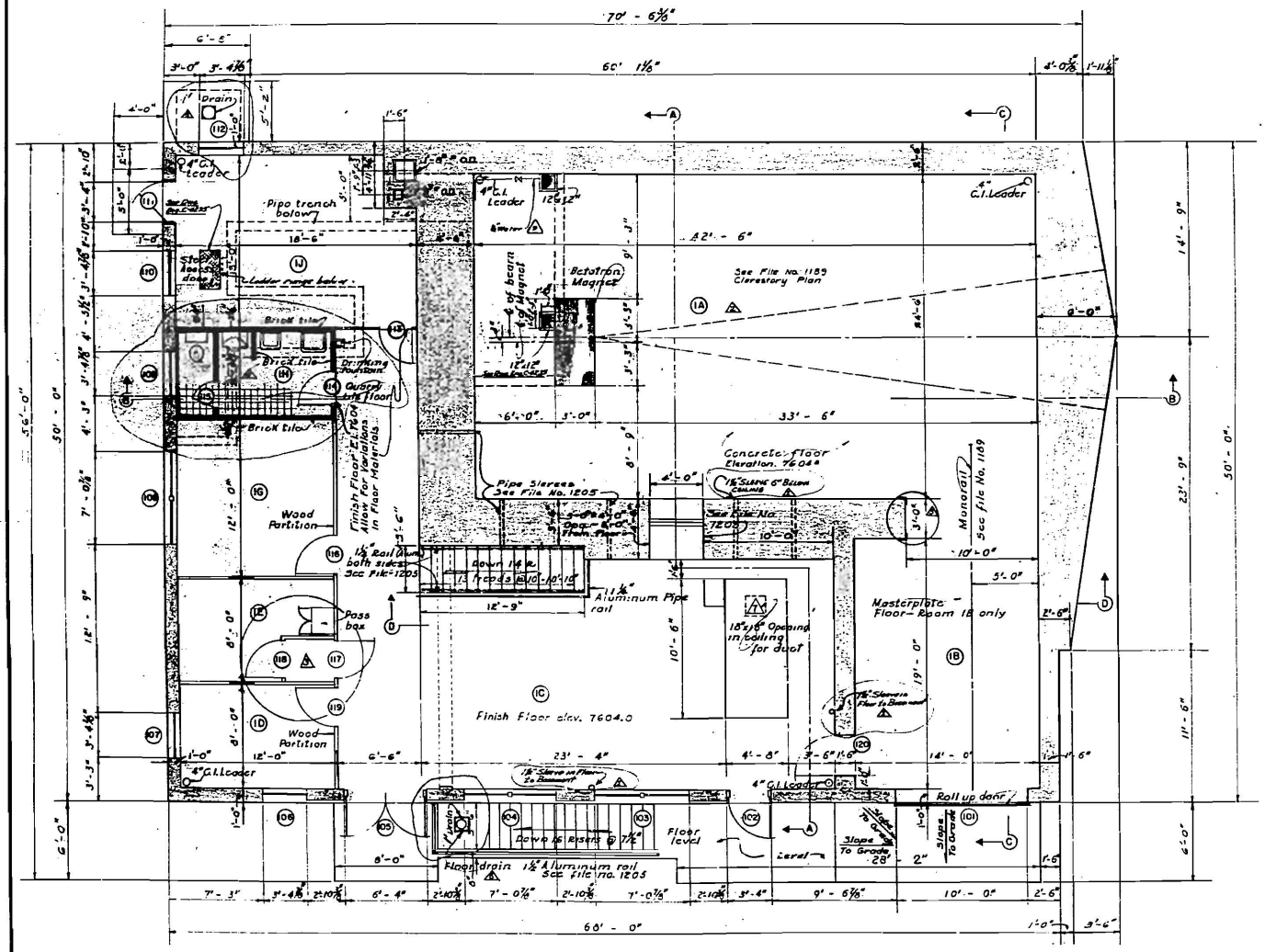
LOS ALAMOS NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

5-17-49

FILE NO. 887
DRAWN GWP-G.R.
CHECKED
APPROVED W.S.C.
DATE 5-17-49
SHEET 28 OF 93

L.A.S.L. DWG. NO. ENG-C 12378 SFA-DY-1/281



FIRST FLOOR PLAN

FINISH SCHEDULE						
ROOM NO	FLOOR	WALLS	CEILING	BASE	WAINSCOT	REMARKS
A	Concrete	Paint	Paint	Paint	Paint	
B	Master Pl.	"	"	"	"	
C	Asphalt Tile	"	"	Asphalt Tile	"	
D	"	"	"	"	"	
E	"	"	"	"	"	
G	"	"	"	"	"	
H	Quarry Tile	Tile	"	Tile Cove	Tile	
J	Conc.	Paint	"	Paint	Paint	
BA	"	"	"	"	"	
BB	"	"	"	"	"	

NO	DATE	STATUS	BY	CK	REVISIONS
1		Mod 15			
2		Mod 16			
3		Mod 17			
4		Mod 18			
5		Mod 19			
6		Mod 20			
7		Mod 21			
8		Mod 22			
9		Mod 23			
10		Mod 24			
11		Mod 25			
12		Mod 26			

AS CONSTRUCTED

SCALE 1/4"=1'-0"

ARCH LAYOUT
FIRST FLOOR PLAN BLDG. NO. (82) AW-23

LOS ALAMOS T-A-8 NEW MEXICO

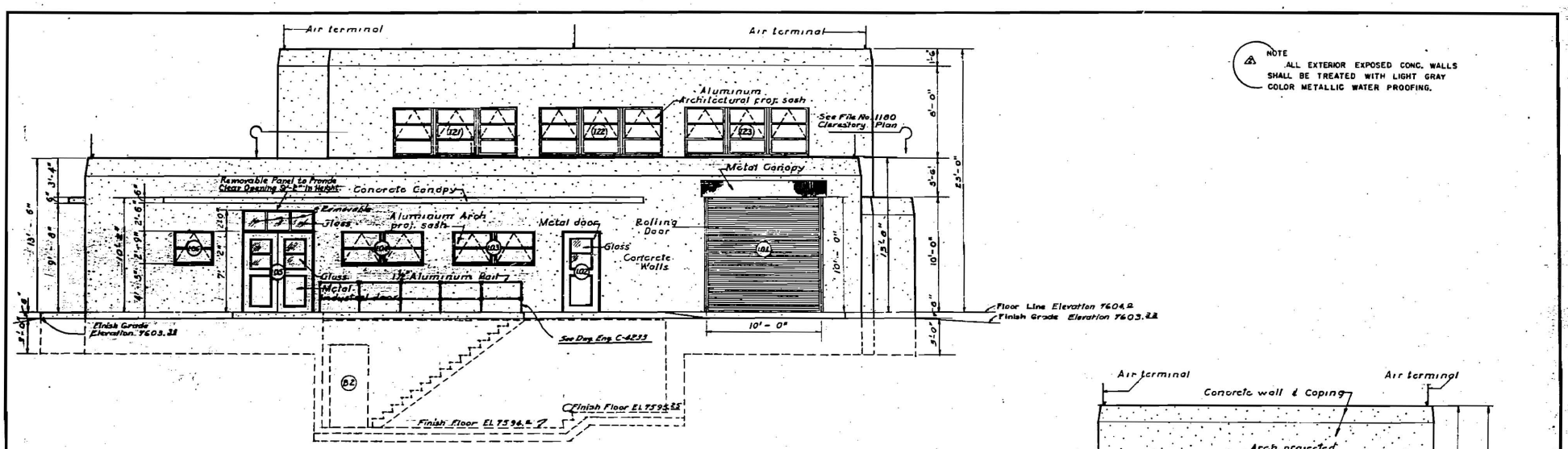
BLACK & VEATCH — CONSULTING ENGINEERS

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DRAWN G.P.R.
CHECKED
APPROVED W.E.E.
DATE 5-17-49
SHEET 27 OF 93

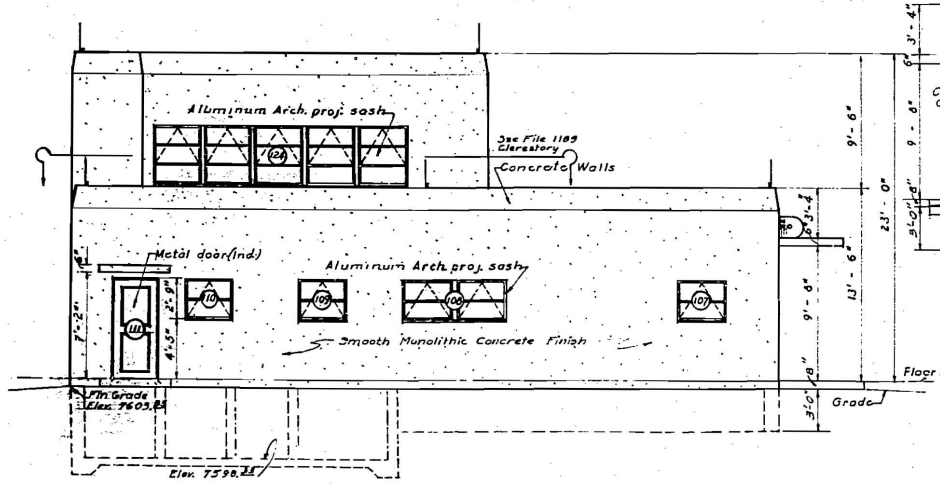
5-17-49

CA Sloan

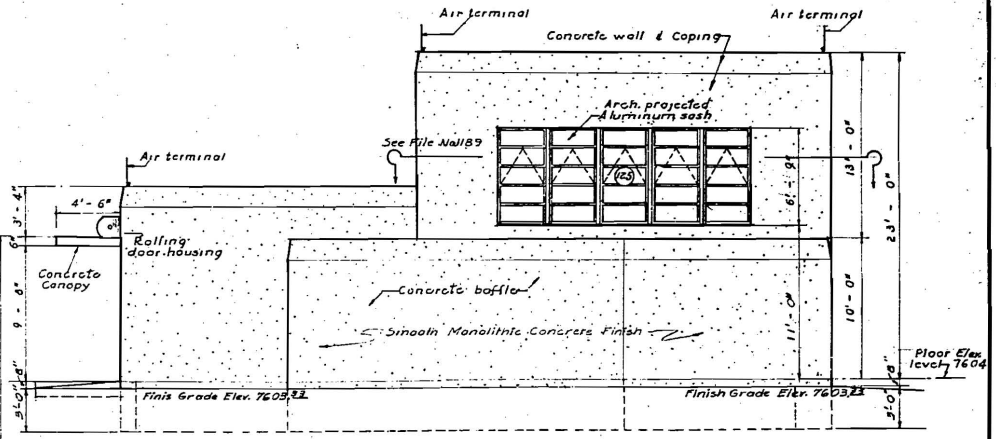
L.A.S.L. DWG. NO. ENG-C-12377 SFA-DY-1/27.6



EAST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

NOTE
ALL EXTERIOR EXPOSED CONC. WALLS SHALL BE TREATED WITH LIGHT GRAY COLOR METALLIC WATER PROOFING.

⚠ ALL ELEVATIONS - SUPERSEDED - See Addendum #1

AS CONSTRUCTED

NO	DATE	STATUS	BY	CK	REVISIONS
⚠	9-67	AS-BUILT	DOS	JB	
⚠	12-68	AS-BUILT	TNS		
▲	1-16-69		JH	AJ	
▲	4-30-69		BBS		REDRAWN
⚠		MOD. 15 C.O. 42	MBS		CHIEF METALLIC WAREHOUSE/USA
⚠		MOD. 15	MBS		SEE ADDENDUM #9 - REVISED ARCH. ELEVATIONS CARDS

Scale 1/4"-1'0"

ARCH LAYOUT
ELEVATIONS BLDG NO (82) AW-23

LOS ALAMOS TA-8 NEW MEXICO

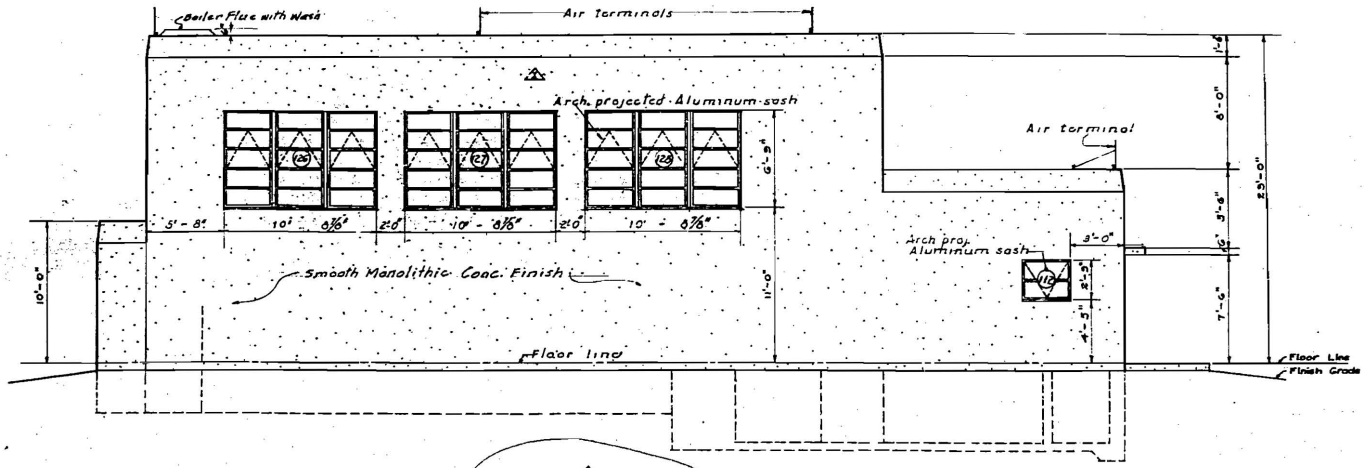
BLACK & VEATCH — CONSULTING ENGINEERS

5-17-69

FILE NO. 801
DRAWN GPR
CHECKED
APPROVED WFC
DATE 5-17-69
SHEET 29 OF 93

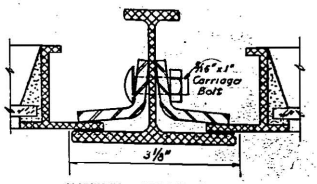
AS CONSTRUCTED DRAWING
AT (79-1)-762
C.A. Slocum

LAST DWG. NO. ENG-C 12379 SFA-DY-1/282



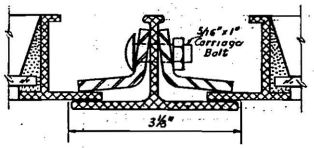
WEST ELEVATION

SCALE 1/4"=1'-0"



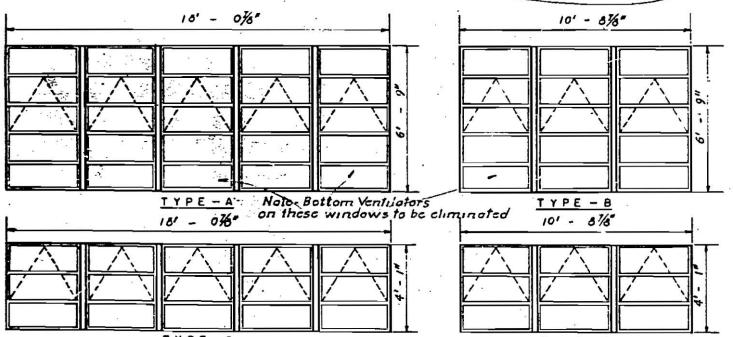
ALUMINUM MULLION F.S.D.

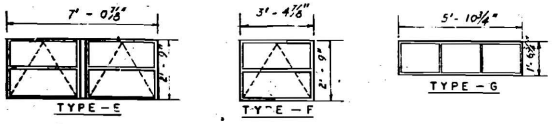
FOR WINDOWS OVER 4'-1" UP TO AND INCLUDING 8'-5"

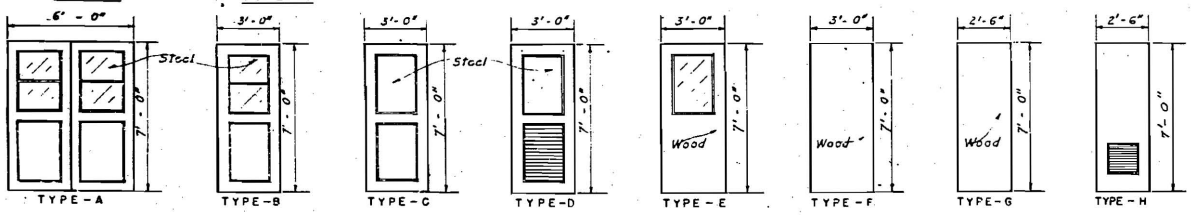


ALUMINUM MULLION F.S.D.

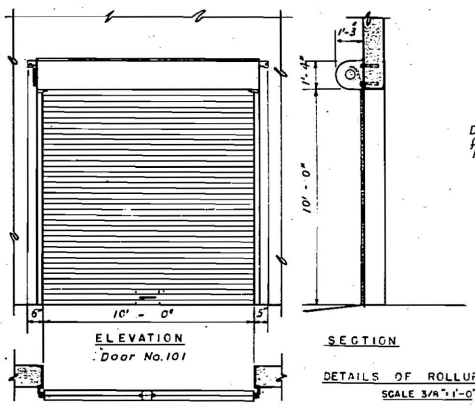
FOR WINDOWS UP TO AND INCLUDING 4'-1" HIGH







SCALE 3/8"=1'-0"



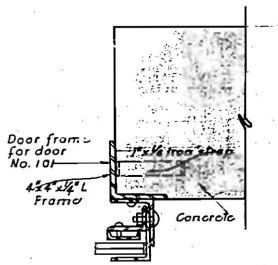
ELEVATION
Door No. 101

PLAN

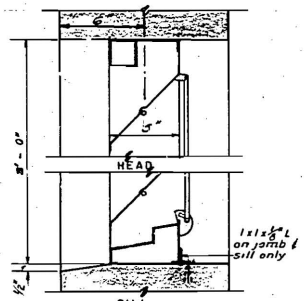
SECTION

DETAILS OF ROLLUP DOOR

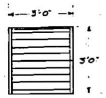
SCALE 3/8"=1'-0"



SECTION OF GUIDES
For roll up door No. 101



SCALE 3"=1'-0"
Opening No. B-3



TYPE-J

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACTOR
SUBMITTED
RECOMMENDED
APPROVED
AT (24)-762
James J. Rose
AS CONSTRUCTED

NO	DATE	STATUS	BY	CK	REVISIONS
2	8-27	As Built	DAS	JB	Re-Revised Drawing No. Equip. Status On E-6-67
1	11-11-68	As-Built	THS		TO REFLECT ADDITIONS TO AS-BUILT STATUS
	5-8-69		JH	RJ	Conn. Equip. Changes As Shown On Mod. Drawings, Mech. Dr. No. 5, Sht. 2 & Addendum #1 "C" Ramp & Elevator Changes
		Mod. 13	WRS		
	5-16-69		WRS		Redrawn

SCALE AS NOTED

ARCH. LAYOUT

ELEVATION & DETAILS BLDG. NO.-(82)AW-29

LOS ALAMOS TA-8 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

DESIGNED
DRAWN GPR
CHECKED JD
APPROVED WEC
DATE 5-17-69

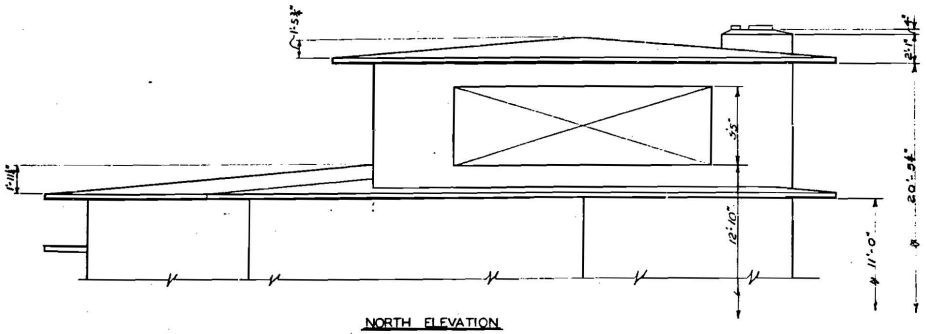
5-17-69

FILE NO. 763

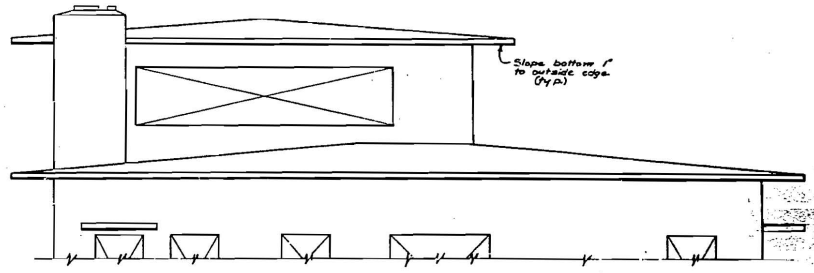
SHEET 30 OF 93

L.A.S.L. DWG. NO. ENG-C 12380

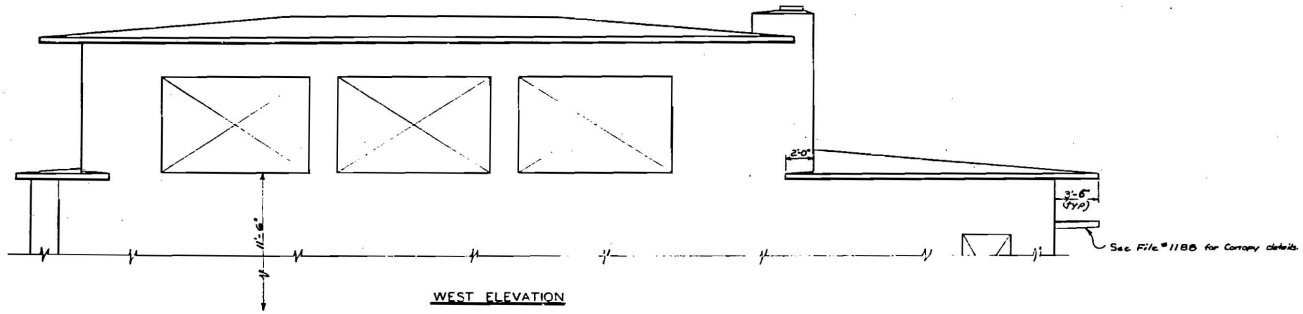
SFA-DY-1/30.3



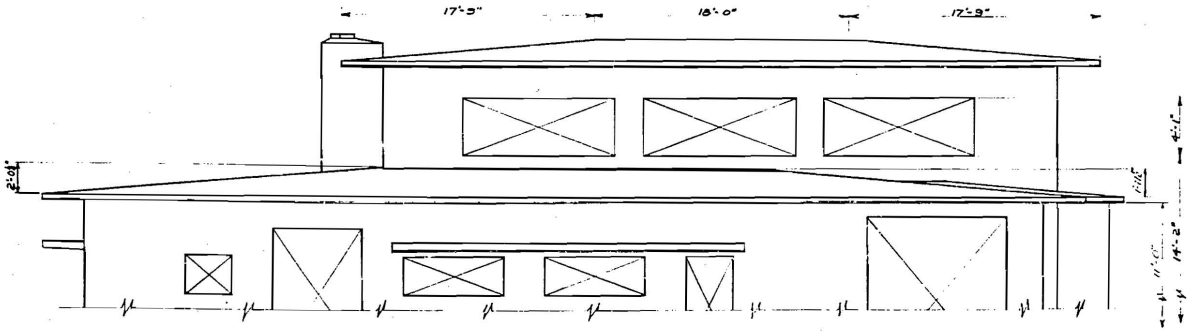
NORTH ELEVATION



SOUTH ELEVATION



WEST ELEVATION



EAST ELEVATION

AS CONSTRUCTED DRAWING
CONSTRUCTION AT (29-1)-762
FURNISHED
RECOMMENDED
APPROVED

Note: All broken dimension lines are to finish floor.
All roof slopes are 1" per foot.
Slope bottom surface of overhangs 1" to outside edge.
Except as modified by this dwg Files #1165, 1162, 763, and 901 are applicable.

AS CONSTRUCTED

Scale ¼" = 1'-0"

NO	DATE	STATUS	BY	CH
A	6-5-57	AS BUILT	S.N.	
G	6-19-56	AS BUILT	TSC	
A	5-1-49			

1. NEW BLDG TO AS BUILT STATUS OF 3-13-57
2. ADDITIONAL ADD'D TO BUILT STATUS

Consulting Consultants, Engineers, Mark & Ed. Revised Title

REVISIONS

STRUCTURAL LAYOUT — BLDG. NO. (62)AM-23
ELEVATIONS - REVISIONS TO FILE #1165 & 1166

LOS ALAMOS TA - 8 NEW MEXICO

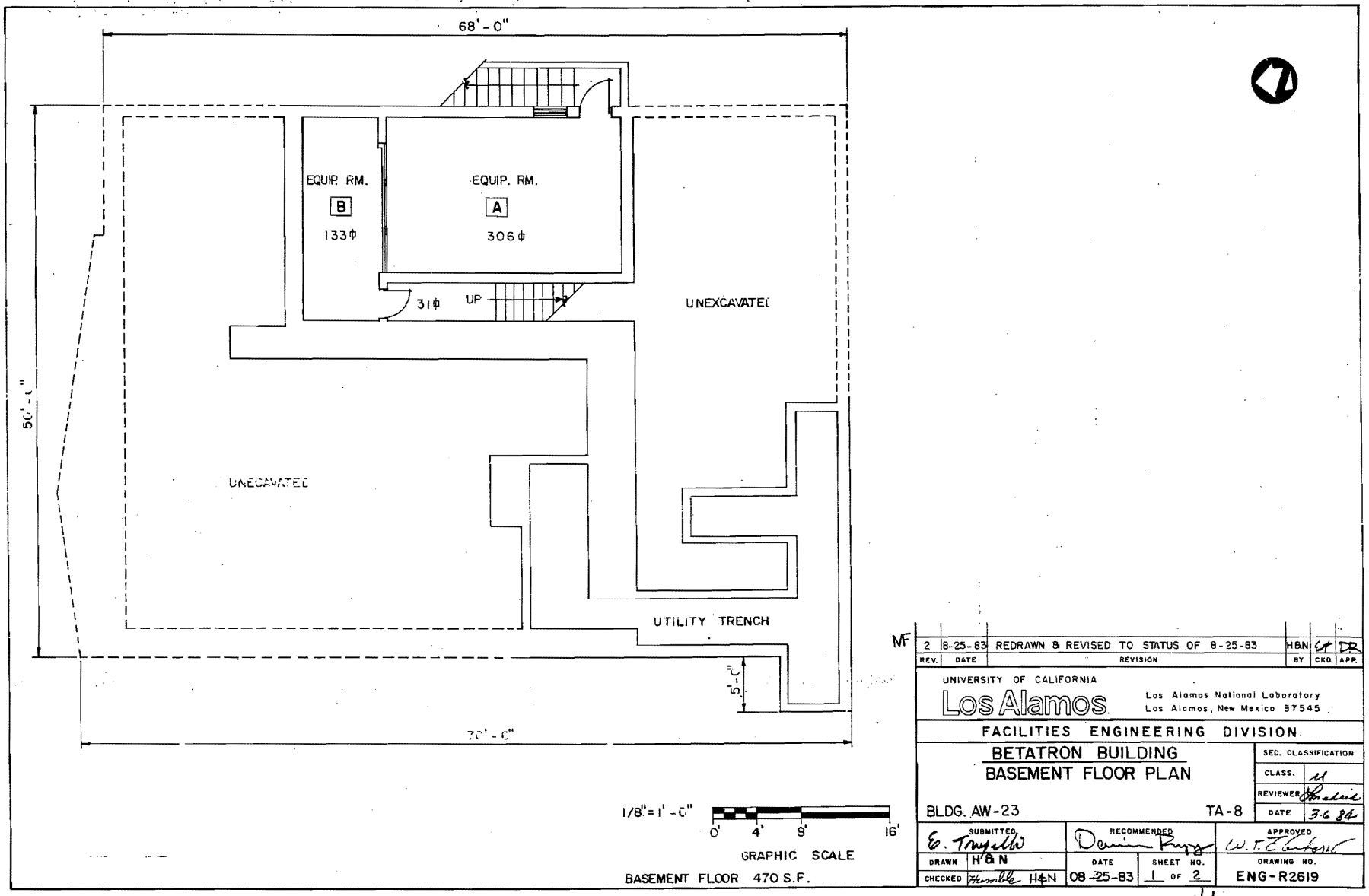
BLACK & VEATCH — CONSULTING ENGINEERS

D. Dickson 6-10-49 — RECOMMENDED H.A. Austin — APPROVED

FILE NO. 1403
DRAWN BMK 6/1/49
CHECKED J.N.E. 6-2-49
APPROVED J.N.E.
DATE 6-8-49
SHEET 7 OF 12

L.A.S.L. DWG. NO. ENG-C 12453

SFA-DY-1/100



REV.	DATE	REVISION	BY	CK'D.	APP.
2	8-25-83	REDRAWN & REVISED TO STATUS OF 8-25-83	H&N	GF	DR

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

BETATRON BUILDING
BASEMENT FLOOR PLAN

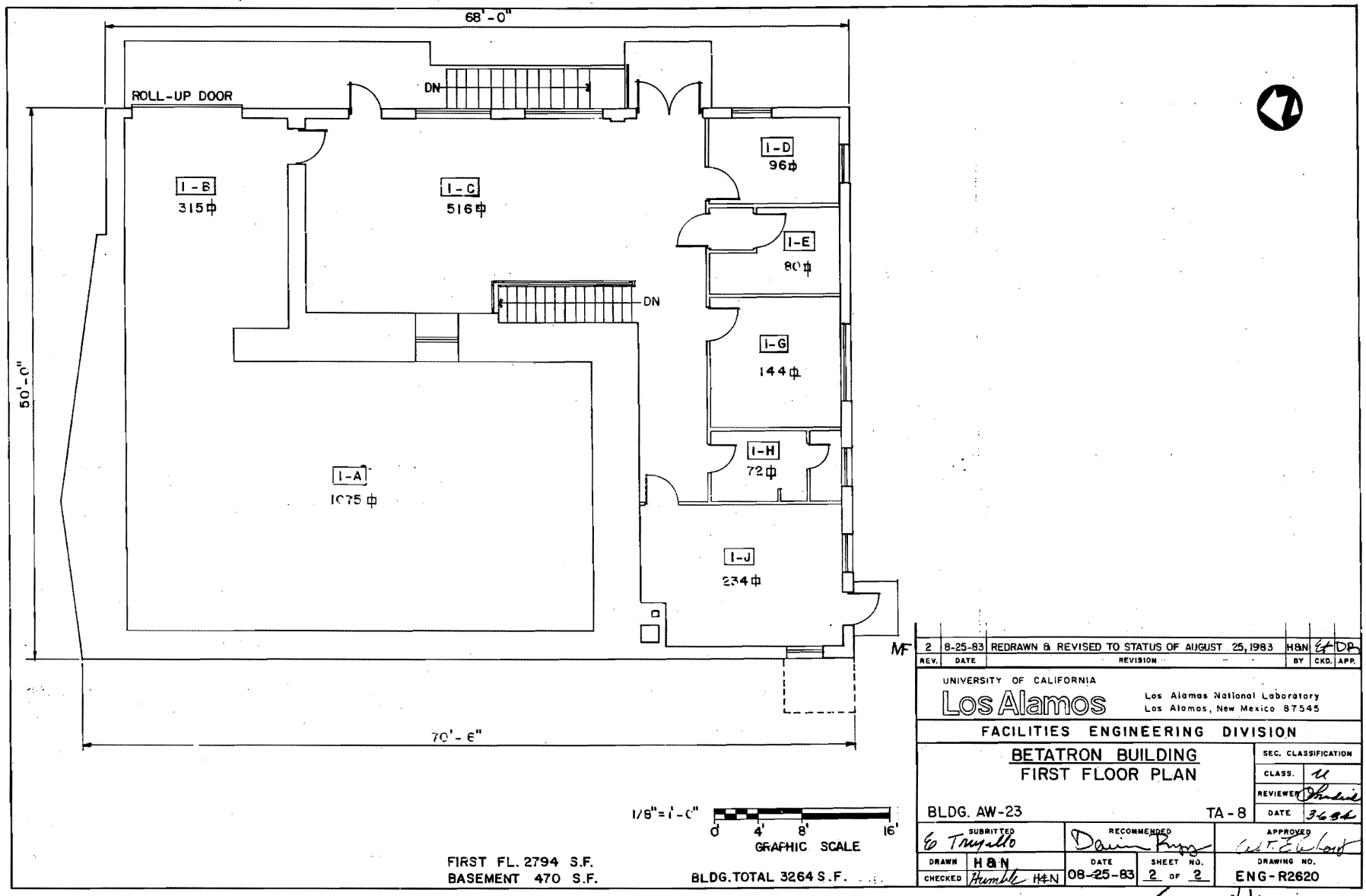
SEC. CLASSIFICATION
CLASS. U
REVIEWER Rhodes
DATE 3-6-84

BLDG. AW-23 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dennis Ruge	W. T. Linhart

DRAWN H&N
CHECKED Humble H&N
DATE 08-25-83
SHEET NO. 1 OF 2
DRAWING NO. ENG-R2619

5/30/84



FIRST FL. 2794 S.F.
BASEMENT 470 S.F.

BLDG. TOTAL 3264 S.F.

REV.	DATE	REVISION	BY	CKD.	APP.
2	8-25-83	REDRAWN & REVISED TO STATUS OF AUGUST 25, 1983	H&N		DP

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

BETATRON BUILDING
FIRST FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 3-6-84

BLDG. AW-23 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E Trujillo	Dave Rupp	C.F. Eckhardt

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	Humble H&N	08-25-83	2 OF 2	ENG-R2620

3/30/84

ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
A	320	1-D	98	1-J	267
B	186	1-E	99	B-STW1	104
1-A	1186	1-F	154	1-STW1	63
1-B	303	1-G	148	TRENCH	450
1-C	895	1-H	83		

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 4,356

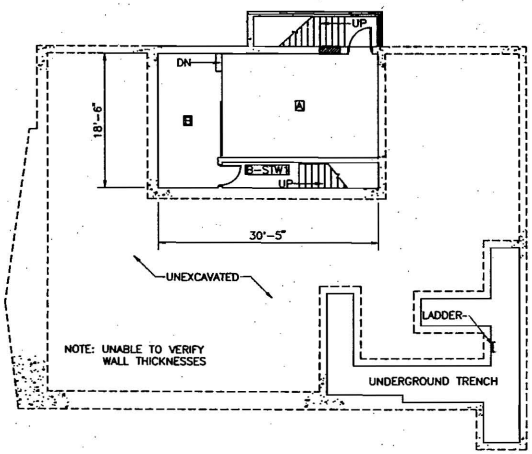
GROSS SQUARE FOOTAGE (BUILDING) = 4,745

LEGEND

BRICK
CONCRETE
LOUVER
WINDOW
WOOD OR METAL STUD

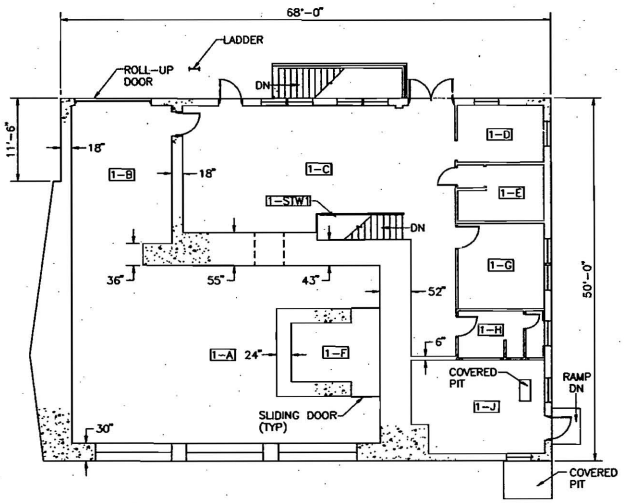
NOTES

1. ALL EXTERIOR WALLS ARE 12" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 4" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R2619.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, VAULTS, AND ENCLOSED PASSAGES.
6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.



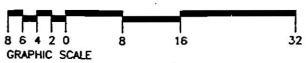
BASEMENT FLOOR PLAN

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



FIRST FLOOR PLAN

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





FIELD VERIFIED 5-24-96

MF	NO	DATE	CLASS REV	DESCRIPTION	DWN	CHKD	SUB	APP

JOHNSON CONTROLS

AS-BUILT RECORD FLOOR PLAN
BETATRON BUILDING
ARCH: BASEMENT & FIRST FLOOR PLAN

DRAWN A. MARTINEZ
VERIFIED AM/PS AM/PS
CHECKED C. SANDOVAL
DATE 8-19-96

BLDG 23 TA-8

SUBMITTED DUANE VIGIL

APPROVED FOR RELEASE LARRY BAYS

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SHEET 1 OF 1

CLASSIFICATION U REVIEWER T. GUSDORF DATE 9-10-96

PROJECT ID 7556

DRAWING NO AB690

REV

JCI NO 91-011

LANL TA- Building # 08-0024

Camera 984242 & 984244

Frame #s DCP_0894 thru DCP_0912 & DCP_4153 thru DCP_4162

Surveyor(s) S. McCarthy; BM; R. Barnes; K. Garcia

Date 7/25/2002

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name High Explosives Radiation Building UTMs easting 377974 northing 3968786 zone 13

Legal Description: Map Frijoles Quad 1984 tnsp 19N range 6E sec 19

Current Use/ Function Sheet Metal & Carpentry Shop Original Use/ Function High Explosives Radiation Facility

Date (estimated) Date (actual) 1950 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction One story with two-story center core. # of Stories 2

Foundation Reinforced Concrete

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☐ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior 1/2" aluminum "Plymetal" siding.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Loading dock and exterior lighting.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Hipped, aluminum alloy hipped roof trusses.

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Vermiculite concrete fill and 4-ply tar and gravel roof.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Aluminum awning-style windows.

# of Each Window Type/ Comments 14 (2-light) aluminum awning-style.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type

Personnel Door Types — Exterior: Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Personnel Door Types — Interior: Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☑
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types — Exterior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types — Interior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 4 sets of exterior double doors. 3 sliding "Plymetal" doors interior doors.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior: Interior side of the "Plymetal" panels.

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc): Room A was divided. The southern portion of the room became a "hot cell room" (Room F). This room housed a shielded "cave" facility equipped with a hoist, floor cart, and manipulator arms.

Degree of Remodeling: Moderate

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s: Other buildings within the Technical Area. Technical Area 8 was originally called Anchor Ranch West (AW), therfore AW-24 is building number TA-8-24.

Integrity: Good

Significance: Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐
Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments The building was originally constructed to support the production of high explosives. The building was converted to flash x-ray research and development and then used for storage. Prior to decontamination and decommissioning the building was being used as a sheet metal and carpentry shop.

Architectural Features (elevations) Each radiation room was constructed with four aluminum awning-style windows and a pair of double doors accessing the exterior. A concrete loading dock was located at the southeast end of the building outside of Radiation Room A. Both Radiation Rooms B and C were equipped with exterior concrete aprons.

Total sq ft 2,136 Net **Architect/ Builder** Black & Veatch Consulting Engineers/R.E. McKee.

Alterations Room A was divided in early 1960. The southern portion of the room became a "hot cell room" (Room F). This room housed a shielded "cave" facility equipped with a hoist, floor cart, and manipulator arms.

List of Drawings (Cntrl + Enter for para break)

ENG-C 12466
Sheet 8 of 113
TA-8 (Bldg No. 83) AW-24
TA-8-24
Architectural
First Floor Plan
October 10, 1949

ENG-C 12467
Sheet 9 of 113
TA-8 (Bldg No. 83) AW-24
TA-8-24
Architectural
Second Floor Plan
October 10, 1949

ENG-C 12469
Sheet 11 of 113
TA-8 (Bldg No. 83) AW-24
TA-8-24
Architectural
Elevations
October 10, 1949

ENG PL-174
Sheet 1 of 1
TA-8, Bldg AW-24
TA-8-24
Shielded Cave Facility
Plan and Section
January 26, 1960

ENG-C 23650
Sheet 1 of 7
TA-8, Bldg AW-24
TA-8-24
Shielded Cave Facility
Architectural Floor Plan, Section & Details,
Location Plan & Notes
April 28, 1960

ENG AB 701
Sheet 1 of 1
TA-8, Bldg 24
As-Built Record Floor Plan Isotope Building
Architectural
First And Second Floor Plan
September 24, 1996

TA-8-24
Isotope Building
Sheet 1 of 2
Elevation
Cold War Era Buildings
Historic Context
July 2006

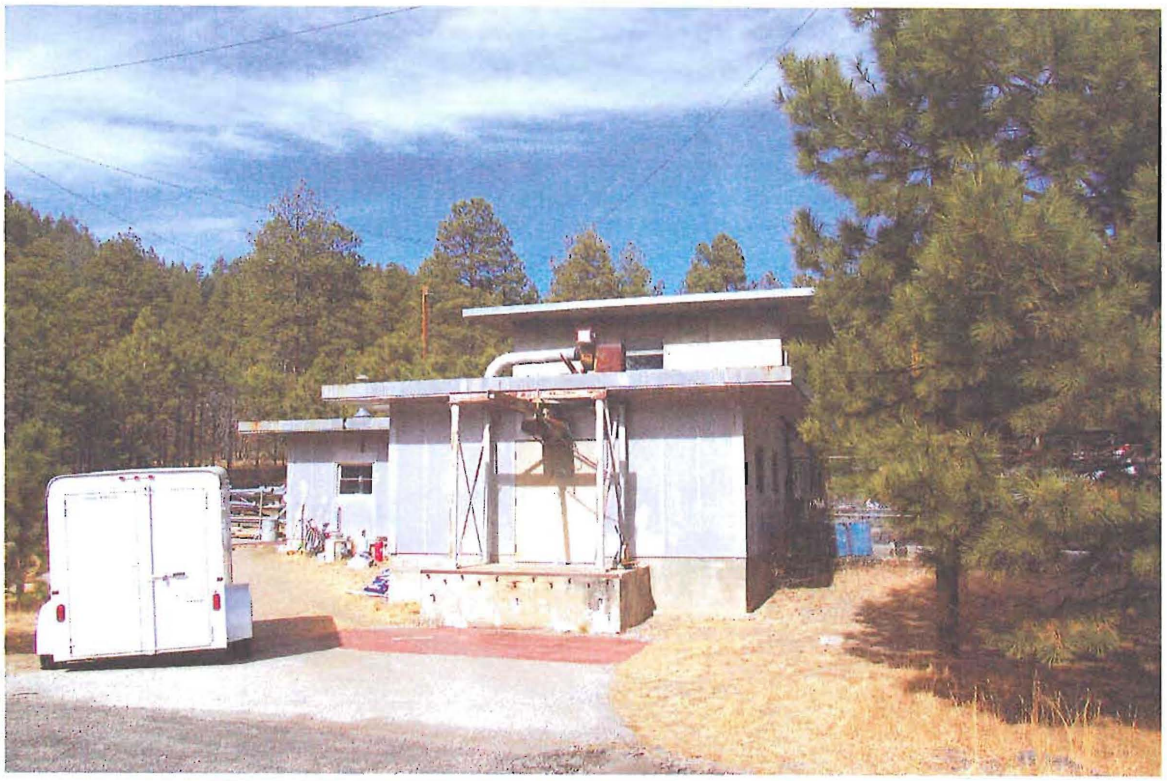
TA-8-24
Isotope Building
Sheet 2 of 2
Elevation
Cold War Era Buildings
Historic Context
July 2006



TA-8-24 Northeast Elevation



TA-8-24 Northeast Elevation



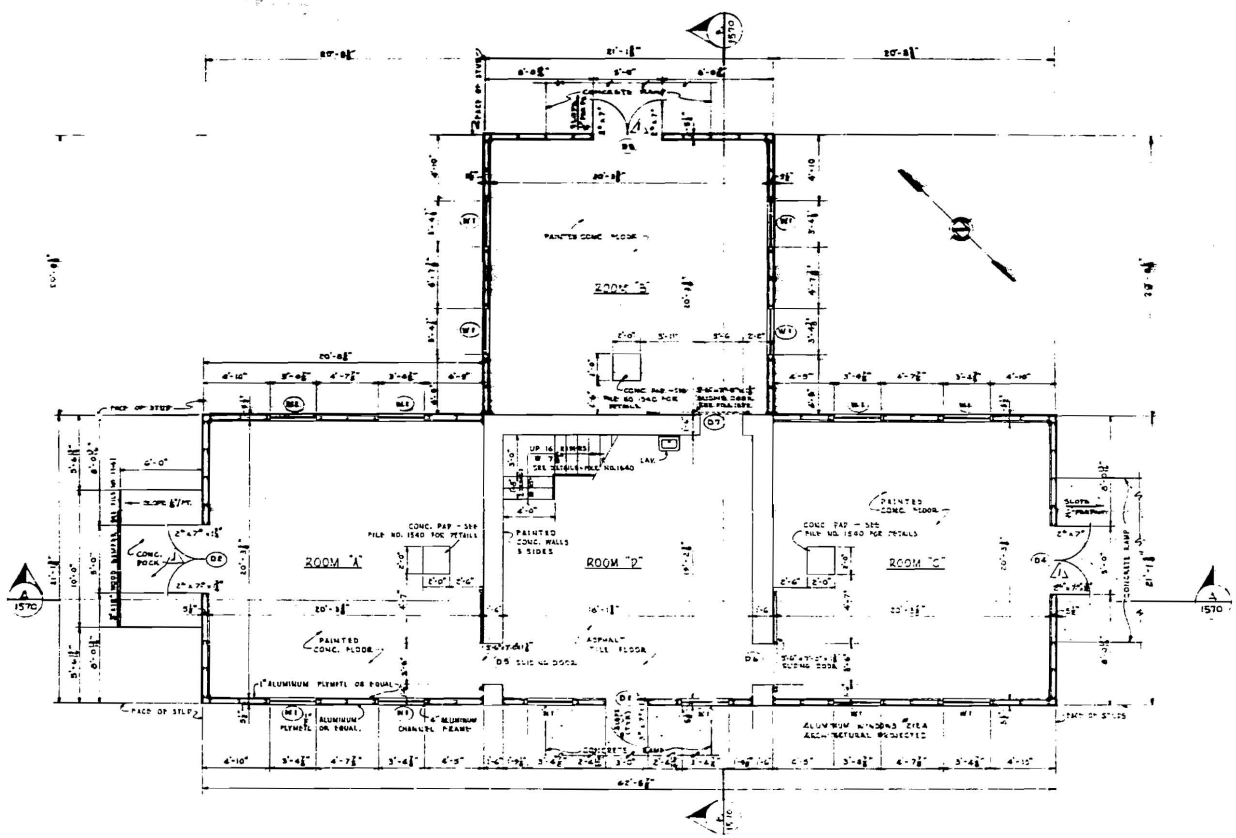
TA-8-24 Southeast Elevation

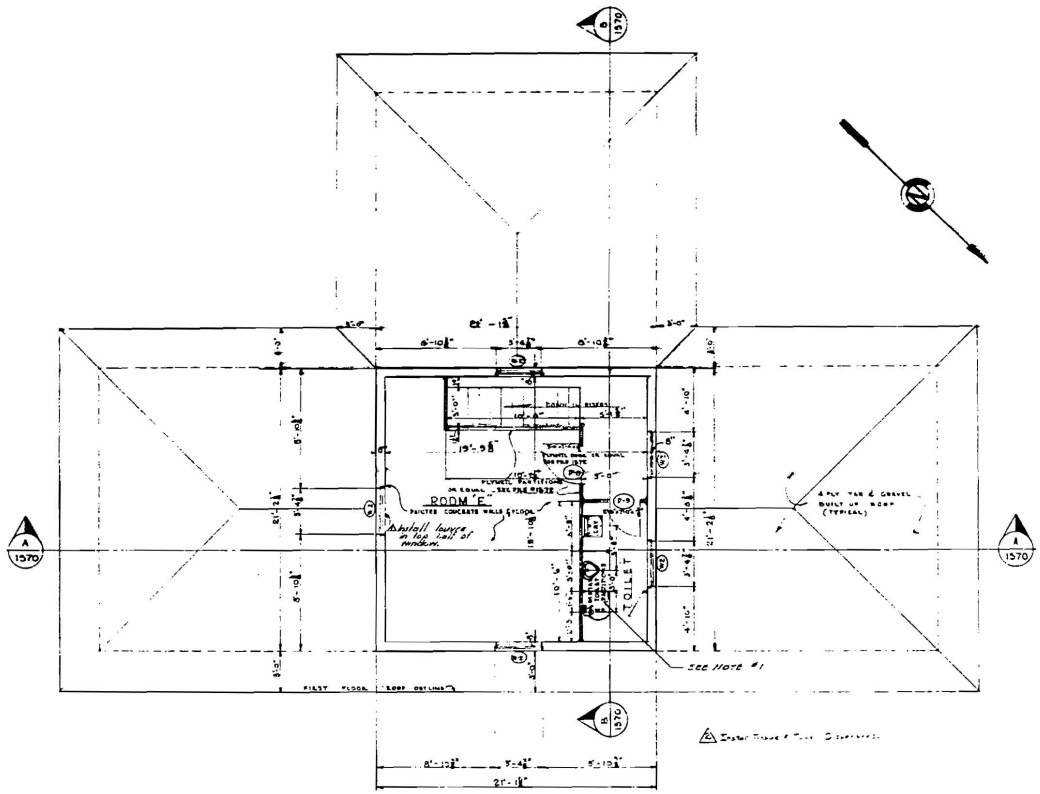


TA-8-24 Southwest Elevation



TA-8-24 Northwest Elevation


ROOM "A"
ROOM "B"
ROOM "C"
PAINTED CONC. FLOOR
PAINTED CONC. WALLS & SIDES
CONC. PAD - SEE PILE NO. 1540 FOR DETAILS
CONC. PAD - SEE PILE NO. 1540 FOR DETAILS
CONC. PAD - SEE PILE NO. 1540 FOR DETAILS
CONCRETE RAMP
CONCRETE RAMP
CONCRETE RAMP



SECOND FLOOR PLAN

NOTES:
1. FOR SHOP DRAWINGS SEE ENG C-4312 & 4497.

VERIFIED UNCLASSIFIED
LANL Classification Group
Karen Kelly 5/15/07

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACTOR
SUBMITTED
RECOMMENDED
APPROVED

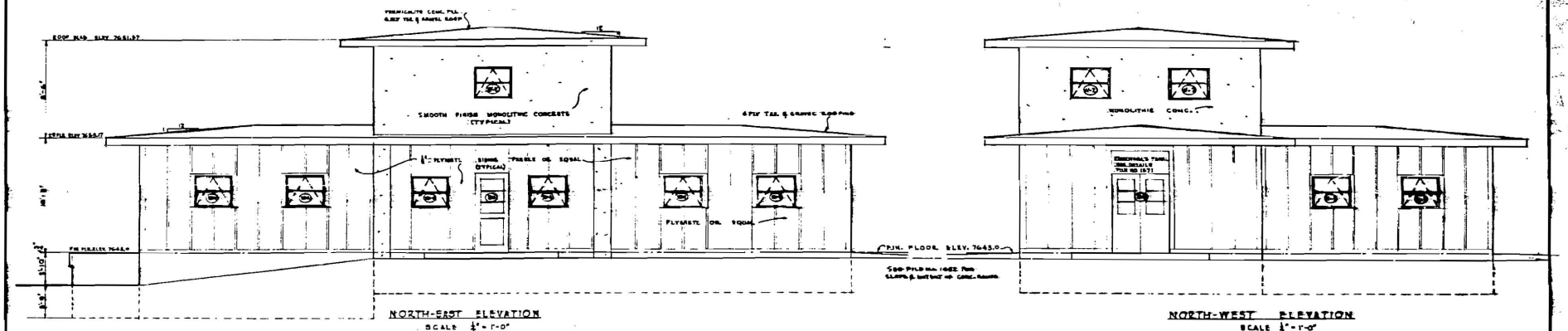
FOR OFFICIAL USE ONLY

1929	ELECTRICAL
1444	CIVIL PLAN
1542	CIVIL GRADE PLAN
1572	ARCHITECTURAL INTERIOR DETAILS
1971	ARCHITECTURAL ENTRANCE DETAILS
1578	ARCHITECTURAL DETAILS
1969	ARCHITECTURAL PLANS
1968	ARCHITECTURAL PLAN
1846	ARCHITECTURAL ELEVATIONS

ARCHITECTURAL BUILDING NO. (83) AW-28
SECOND FLOOR PLAN
PROJECT "B"
TA-8
LOS ALAMOS NEW MEXICO
BLACK & VEATCH CONSULTING ENGINEERS
FILE NO. 1567

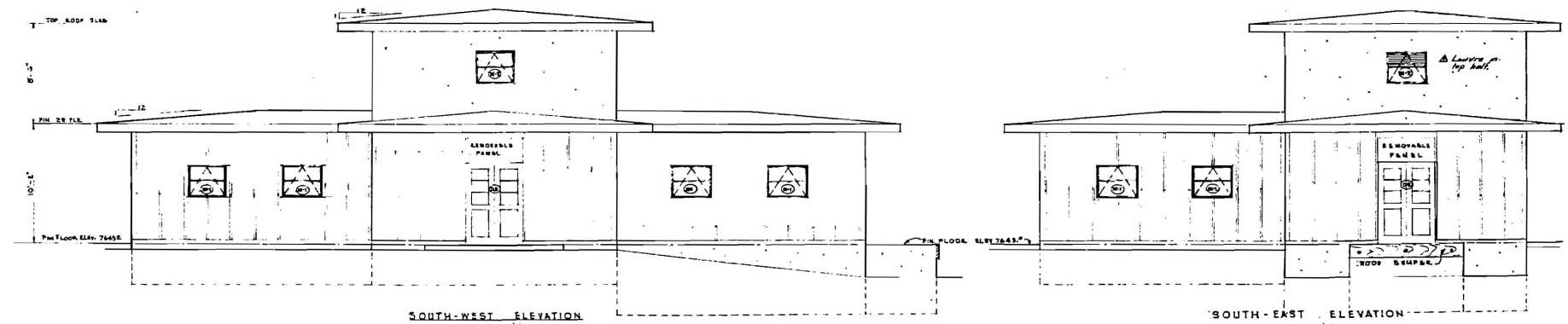
BU Set No. F6

DR # 12487 SFA-16-8



NORTH-EAST ELEVATION
SCALE ¼" = 1'-0"

NORTH-WEST ELEVATION
SCALE ¼" = 1'-0"



SOUTH-WEST ELEVATION
SCALE : ¼" = 1'-0"

SOUTH-EAST ELEVATION
SCALE : ¼" = 1'-0"

VERIFIED UNCLASSIFIED
LANL Classification Group

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)-
SUBMITTED
RECOMMENDED
APPROVED

1548	ROOF PLAN & DETAILS
1529	ELECTRICAL LAYOUT
1456	CIVIL - GRADE PLAN
1572	ARCHITECTURAL - INTERIOR DETAILS
1571	ARCHITECTURAL - EXTERIOR DETAILS
1570	ARCHITECTURAL - SECTIONS
1568	ARCHITECTURAL - ELEVATIONS
1567	ARCHITECTURAL - SECTIONS & FLOOR PLAN
1466	CIVIL - PLOT PLAN

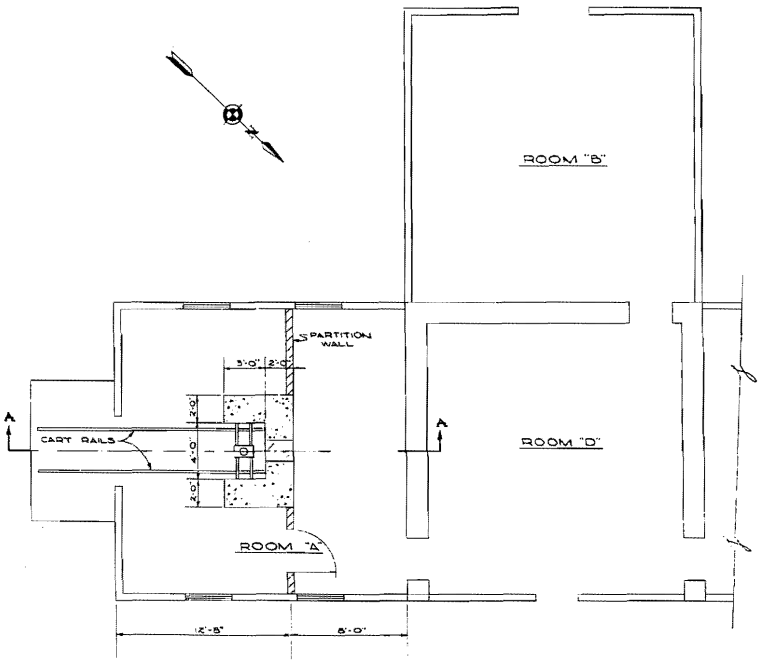
FOR OFFICIAL USE ONLY

ARCHITECTURAL — BUILDING NO. (83) AW-24
ELEVATIONS
PROJECT "B"
TA-8
LOS ALAMOS
BLACK & VEATCH — CONSULTING ENGINEERS

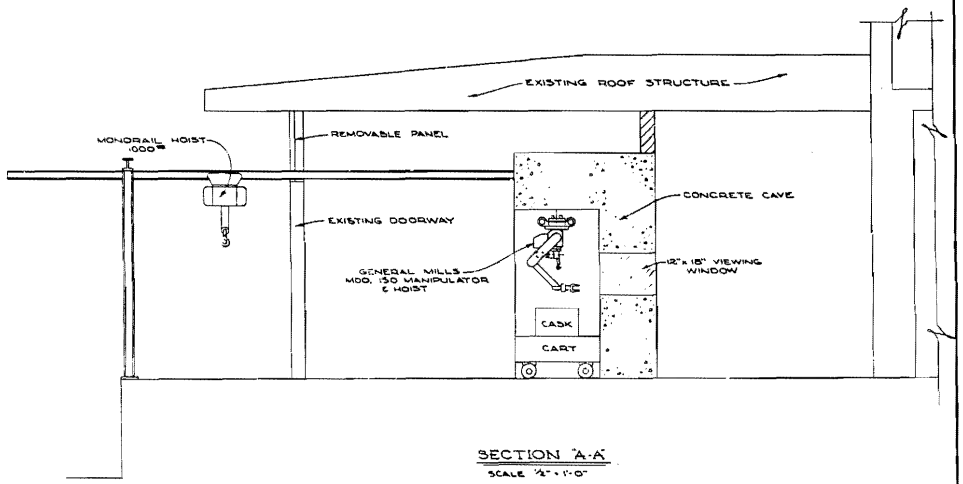
1569

BU Set No. FG-

12469



PLAN
SCALE 1/4"=1'-0"



SECTION "A-A"
SCALE 1/2"=1'-0"

NO.	DATE	REVISIONS	BY	CHKD	ORIG. LDR.	ENG. G. G.

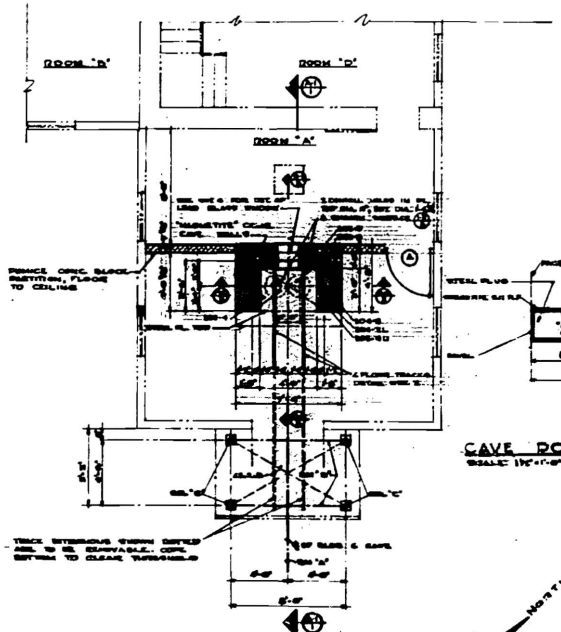
AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

SHIELDED CAVE FACILITY
PLAN AND SECTION
BLDG. AW-24 TA-8

CHECKED	RECOMMENDED	APPROVED
PROJ. ENG.	GROUP LEADER	ENG. DEPT. OFFICE
DESIGNER PR.K.	DATE 1-26-60	DRAWING NO.
DRAWN LINKE	SHEET 1 OF 1	ENG PL-174
SCALE AS NOTED		

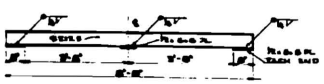
B.A. NO. _____ LAB. JOB NO. 2363



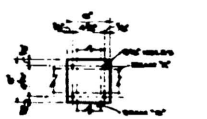
FLOOR PLAN --- RM "A"



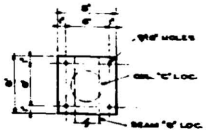
NORTH ELEV. BEAM "A" - (1 REQ.)



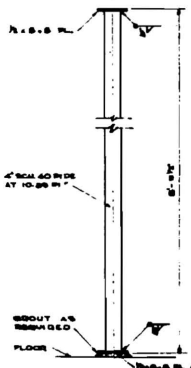
ELEVATION BEAM "B" - (2 REQ)



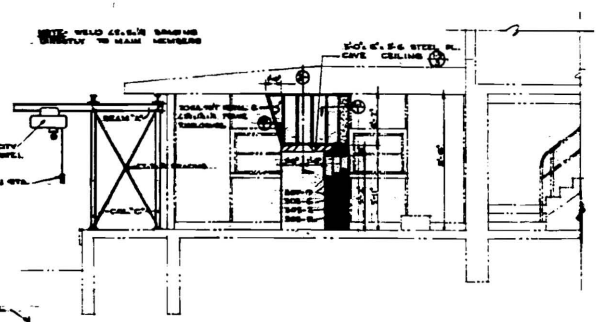
6" SQ PL (4 REQ)



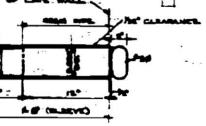
8" SQ PL (12 REQ)



COLUMN "C" (4 REQ)



SECTION

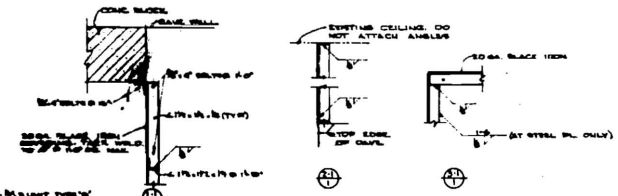


CAVE PORT DETAIL

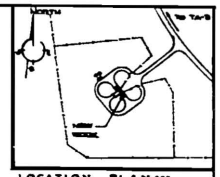
NUMBER	SIZE	LENGTH	AMOUNT	SHAPE	REMARKS
B05-9	5	5'-9	36	5'-9	VERTICAL @ E.F.
B05-4	5	5'-4	28	5'-4	VERTICAL L&R UNDER EDGE OF PLATE
B05-2	5	5'-2	5	5'-2	VERTICAL L&R UNDER WINDOW - HOT SIDE
B05-6	5	5'-6	5	5'-6	VERTICAL @ E.F. UNDER WINDOW - COLD SIDE
B04-4	5	4'-4	24	4'-4	HORIZONTAL @ E.F. OVER BALLS
B06-11	5	6'-11	6	1'-0 | 1'-11	HORIZONTAL L&R AT LEVEL OF WINDOW
B05-9L	5	5'-9	15	1'-0 | 3'-9	HORIZONTAL L&R ABOVE & BELOW WINDOW
B09-4U	5	9'-4	28	2'-0 | 4'-4 | 3'-0	HORIZ. TIES AT CAVE WALL ENDS & BESIDE WINDOW
B07-0	5	7'-0	14	7'-0	HORIZONTAL @ E.F. COLD SIDE & 6" ABOVE & BELOW WINDOW
B02-8	5	2'-8	2	2'-8	HORIZONTAL @ E.F. COLD SIDE AT LEVEL OF WINDOW
B02-6	5	2'-6	24	1'-3 | 1'-3	WALL CORNERS (2)

NOTE - ALL BENDS & LAPS ARE STANDARD & ALL @ ARE SPACED APPROX. 0'0C.

REINFORCING BAR SCHEDULE ---



SHEET METAL ENCLOSURE DETAILS



GENERAL NOTES ---

1. PROVIDE & INSTALL ONE (1) EA "WESTINGHOUSE" ELECTRIC HOIST SERIES 1 HOIST, MODEL NO. SB2-S, 2000 LB. CAPACITY, REEVING, DATA 230 V, 3Ø, 60 C, 2.2 H.P., WEATHERPROOF HOOD, OIL FOR OUTDOOR OPERATION, WITH PLAIN TROLLEY.
2. CONCRETE - CONCRETE FOR CAVE WALLS TO BE AIR-ENTRAINED & INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR MASONRY CONCRETE, A.C.I. REF. SECTION 613-6000.
3. DOORS - DOORS "A" TO BE 3'-0" x 7'-0" x 1 3/4" FLUSH TYPE, SOLID CORE WOOD DOORS & HOLLOW METAL FRAME WITH RUBBER WEATHERSTRIPS & 3 ANCHORS PER JAMB.
4. HARDWARE - FURNISH WITH DOORS, BRONZE LOCKSET, MS 5.2.2 GRADE 1 PRESTONE, 1 1/2 PAIR BUTTS, SIZE 4 1/2 x 4 1/2 MS 44, 1 CLOSER, SIZE 1 PER REQUIRED.
5. GENERAL - WILLIS CO., INC. 500 LB. CAPACITY HOIST, 20 FT. CABLE LIFT, OR EQUIVALENT, OVERALL LENGTH 10 INCHES, WIDTH 6 INCHES, HEIGHT 8 INCHES, DRUM TYPE HOIST, GEAR REDUCER 6:1, WORM, HOOK TRAVEL 36 INCHES AT 22 FT. PER MINUTE, RATED 1 AND 2 TON MOUNTING PLATES, SIZE 8" x 7", ALSO INCLUDES 6 CONDUCTOR CORD, AMPHENOL CONN., SLOW AC INPUT, D.C. RECTIFIER & 10 FT. PENDANT CONTROL.
6. MANUFACTURERS AS SPECIFIED BY CENTRAL ENGINEERING LABORATORY, INC., WORK, MISC. COMPLETE AS REQUIRED, AND OBTAINED FROM MANUFACTURERS AS LISTED HEREIN: MONORAIL - CHANNELBEAM TRACK, SCO-447-108-S; SIX (6) SPACE, 12 INCH PASS, 10 FT. TRACK SCO-447-108-C; SLAVE END SECTION INCLUDING, 2 SECTION "SOFT" CRANE TRACK & ADAPTER RING (SOFTING TO BE ENCLOSED TYPE JOINT) VERTICAL EXTENSION OF ARMS TO BE 60 INCHES; CRANE - LIVE DISTANCE BETWEEN MASTER & SLAVE END PIVOTS TO BE 60 INCHES; ONE (1) REMOVABLE JAW PACK, PIVOTED, MSM-63-1056 & ONE (1) TONG INTERCHANGE FIXTURE, SCO-447-0.
7. ONE (1) LEAD GLASS WINDOW AS DETAILED ON SHEET 6.
8. GENERAL - WILLIS CO., INC. HOIST (SPEC 6), MODEL T MANIPULATORS (SPEC 6), GLASS GLARE WINDOW (NOTE 7) WILL BE FURNISHED BY L.A.S.L. & ARE TO BE INSTALLED BY THE CONTRACTOR.
9. PAINT ALL UNCOATED IRON & STEEL SHIELD COAT STAY TOTEST. DO NOT PAINT ANY ELECTRICAL OR MECHANICAL ITEMS OR ANY ALUMINUM OR OTHER EXISTING NON-FERROUS METAL. PAINT NEW WOOD DOOR, ONE (1) COAT PRIMER & TWO COATS OIL BASE PAINT. PAINT NEW CONCRETE, CONC. BLOCK, ONE (1) COAT PRIME & ONE COAT OIL BASE PAINT. EXCEPT PAINT ENTIRE INTERIOR OF CAVE, ONE (1) COAT WHITE CEMENT PAINT. ALL PAINT EXCEPT WHERE IT IS TO BE GRAY, EXTEND "AWESOME" OIL CAVE FLOOR TOP BEYOND CAVE.
10. THIS FACILITY IS DESIGNED FOR A MAX. OF FIFTY (50) CURIES PACKAGED SOURCES ONLY. PROVIDE A METAL SIGN TO THIS EFFECT, LETTERS AT LEAST 1 INCH HIGH, & LOCATE SIGN AS DIRECTED BY OPERATOR'S WINDOW ON COLD SIDE OF CAVE.

NOTE - MANUFACTURER'S NAME & CATALOG NUMBER USED FOR REFERENCE ONLY. ALL ITEMS TO BE AS SPECIFIED OR AN APPROVED EQUAL.

THIS JOB MUST BE DIELECTRICALLY AND ANY CLEARANCES APPROVED BY ENG-4 STANDARDS PHONE 7-4688

NO.	DATE	REVISIONS	BY	CHKD

AUTHORIZED FOR CONSTRUCTION

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

SHIELDED CAVE FACILITY ---

ARCHITECTURAL FLOOR PLAN, SECTION & DETAILS, LOCATION PLAN & NOTES

BLDG AW-24 TA-8

DESIGNED BY	APPROVED	
DRAWN BY	GROUP LEADER	GROUP LEADER'S OFFICE
TRACED BY	DATE	DRAWING NO.
FINAL CHK.	APR. 28, 1960	ENG-C 23 G 50
SPECS BY	SHEET	
QUANTITIES	1 OF 7	

CSA NO. 14 LAS JOB NO. 2363

ROOM INFORMATION CHART

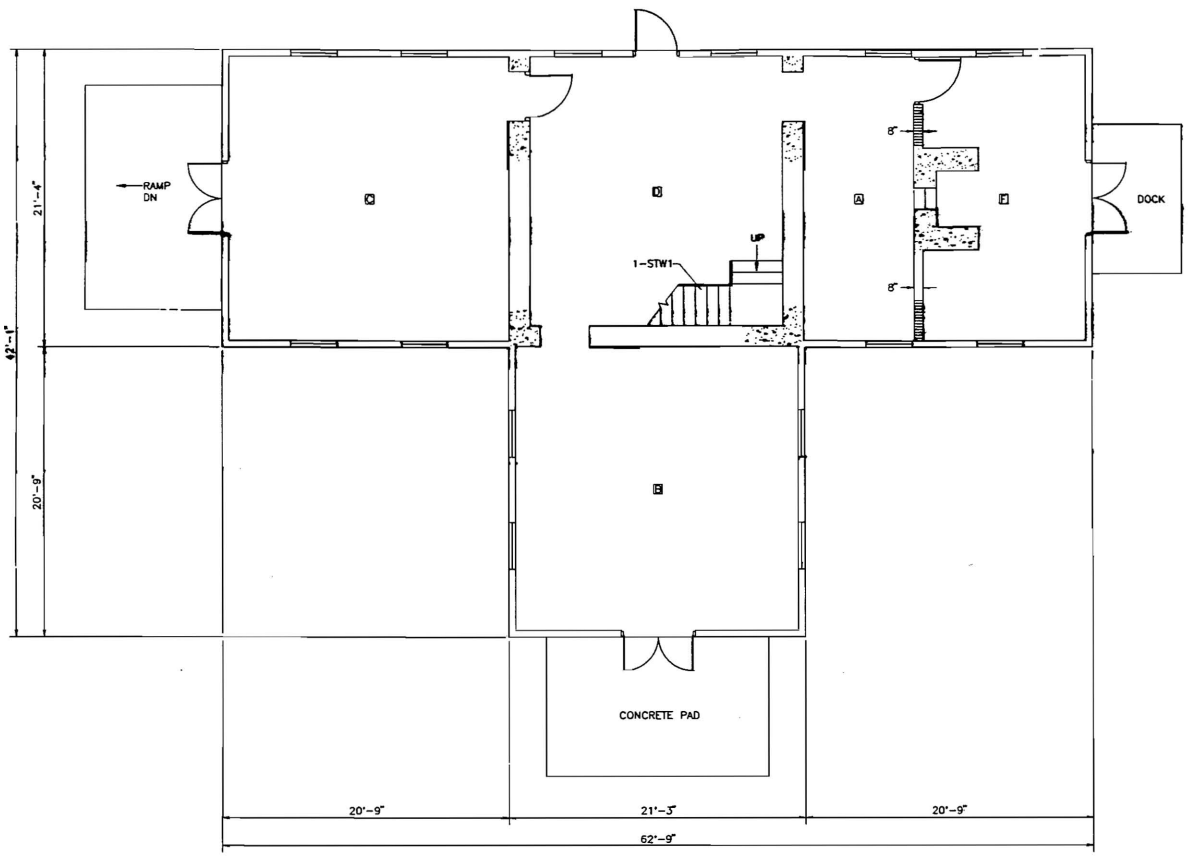
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
A	187	D	393	G	53
B	429	E	254	1-STW1	62
C	429	F	242	2-STW1	87

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 2,136

GROSS SQUARE FOOTAGE (BUILDING) = 2,231

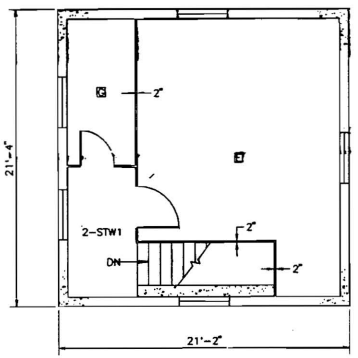
LEGEND

CONCRETE
CONCRETE BLOCK
WINDOW
WOOD OR METAL STUD



FIRST FLOOR PLAN

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

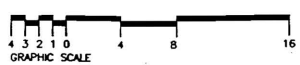


SECOND FLOOR PLAN

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

NOTES

1. ALL EXTERIOR WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 18" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R2621
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, VAULTS, AND ENCLOSED PASSAGES.
6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.





FIELD VERIFIED 6-4-96

MF NO	DATE	CLASS REV	DESCRIPTION	DWN	VER	CHKD	SUB	APP

JOHNSON CONTROLS

AS-BUILT RECORD FLOOR PLAN
ISOTOPE BUILDING
ARCH: FIRST AND SECOND FLOOR PLAN

DRAWN A. MARTINEZ
VERIFIED
CHECKED
DATE 9-24-96

BLDG 24 TA-8

SUBMITTED DUANE VIGIL

APPROVED FOR RELEASE LARRY BAYS

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

SHEET 1 OF 1

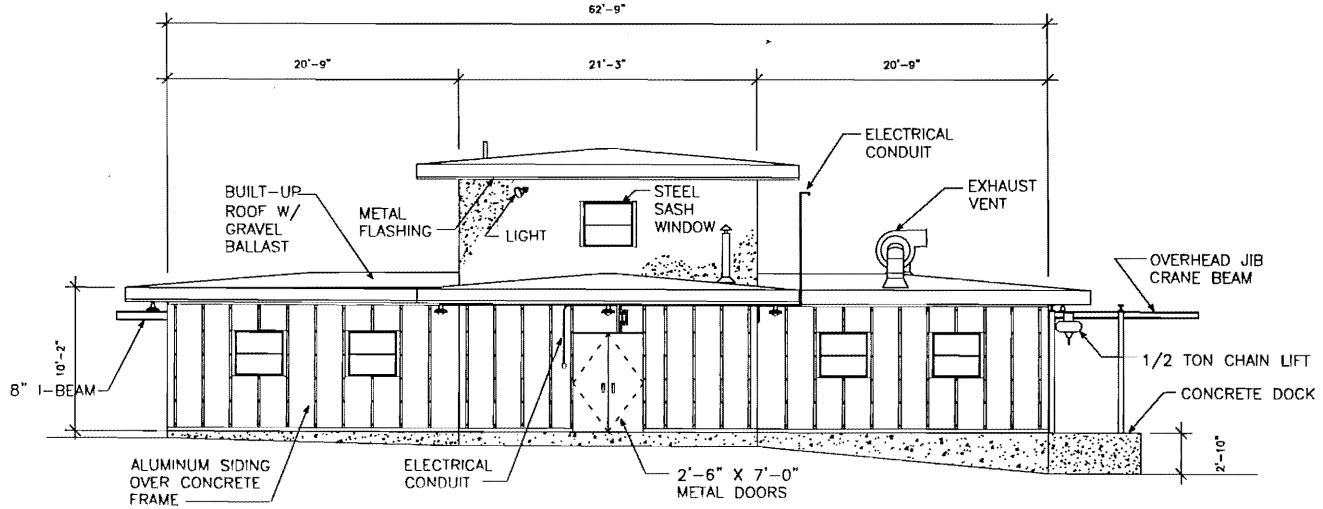
CLASSIFICATION U REVIEWER T. GUSDORF DATE 10-30-96

PROJECT ID 7556

DRAWING NO AB701

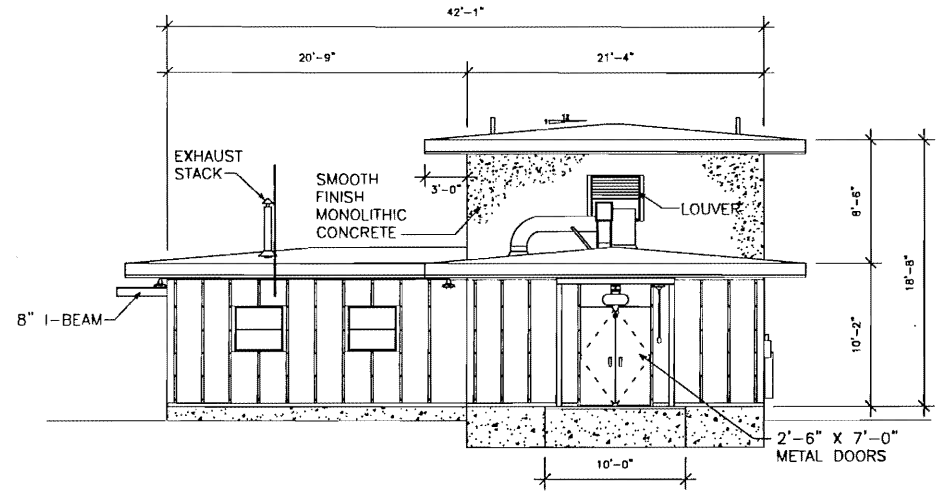
REV

JCI NO 91-011



SOUTH-WEST ELEVATION (1 / A-1)

SCALE: 1/4"=1'-0



SOUTH-EAST ELEVATION (2 / A-1)

SCALE: 1/4"=1'-0

COLD WAR ERA BUILDINGS
HISTORIC CONTEXT

DRAWN	K. HONIG
DESIGN	—
CHECKED	K. TOWERY
DATE	JUL 08

TA-8-24 ISOTOPE BUILDING

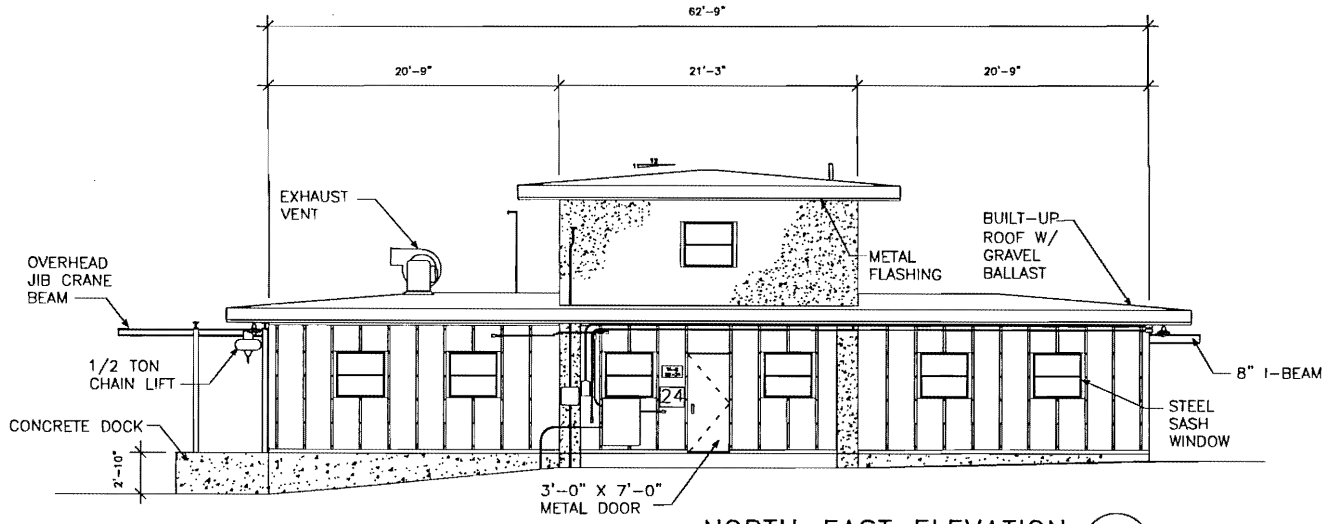
SUBMITTED APPROVED FOR RELEASE

Los Alamos NATIONAL LABORATORY PO Box 1663 Los Alamos, New Mexico 87545

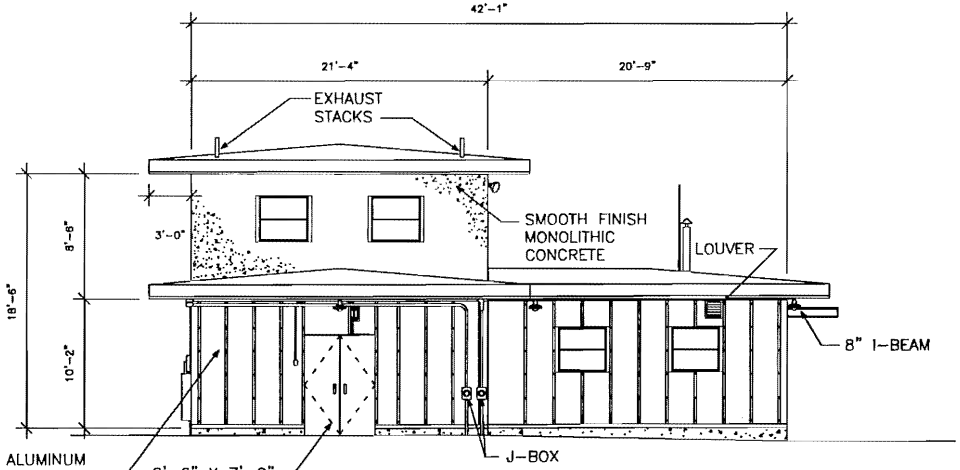
SHEET A-1

1 OF 2

CLASSIFICATION U REVIEWER DATE



NORTH-EAST ELEVATION (1 / A-2)
SCALE: 1/4"=1'-0



NORTH-WEST ELEVATION (2 / A-2)
SCALE: 1/4"=1'-0

COLD WAR ERA BUILDINGS HISTORIC CONTEXT		DRAWN	K. HONIG
		DESIGN	—
		CHECKED	K. TOWERY
TA-8-24	ISOTOPE BUILDING	DATE	JUL 06
SUBMITTED	APPROVED FOR RELEASE		
Los Alamos NATIONAL LABORATORY PO Box 1663 Los Alamos, New Mexico 87545		SHEET	A-2
			2 OF 2
CLASSIFICATION U	REVIEWER	DATE	

LANL TA- Building # 08-0025

Camera 984242

Frame #s DCP_2474 through DCP_2476

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Utility Building UTMs easting 377992 northing 3969029 zone 13

Legal Description: Map Frijoles Quad 1984 tnsp 19N range 6E sec 19

Current Use/ Function Utility Building Original Use/ Function Utility Building

Date (estimated) Date (actual) 1950 Property Type Support

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 1

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Building elements include lights, signage, fire extinguisher, and two junction boxes. The interior of the building is equipped with a 4 ft deep sump pit.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Low pitched, concrete conical roof.

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☑

Other Roof Materials Concrete with tar and gravel.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning style

# of Each Window Type/ Comments 1 window

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern 2-light awning style.

Door Type

Personnel Door Types — Exterior

Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☑ Painted ☑

Interior

Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types — Exterior

Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior

Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 1 door

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☐ Good ☐ Fair ☑ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☑

If yes, list building names and #s: This building is the same floorplan as TA-8-29. It is associated with other buildings within the TA.

Integrity Good

Significance

Eligible Under Criterion A ☐ B ☐ C ☐ D ☐ Not Eligible ☑

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments Technical Area 8 was originally called Anchor ranch West (AW), therfore AW-25 is building number TA-8-25.

Architectural Features (elevations)

TA-8-25 is a small, one-story rectangular in plan building measuring 11 ft by 9 ft. The building is constructed with a concrete perimeter foundation, 8 in. thick concrete floor slab, concrete walls, and a very low-pitched concrete conical roof finished with a 4-ply tar and gravel roofing.

Total sq ft 80 Net

Architect/ Builder Black & Veatch Consulting Engineers/ R.E. McKee

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 12477
Sheet 19 of 113
TA-8 (Bldg 84A-1 and 84B-1) AW-25 and AW-29
TA-8-25
Structural Layout
Plans, Sections, & Details
September 8, 1949

ENG-R 2623
Sheet 1 of 1
TA-8, AW-25
TA-8-25
Utility Building
Floor Plan
July 21, 1964

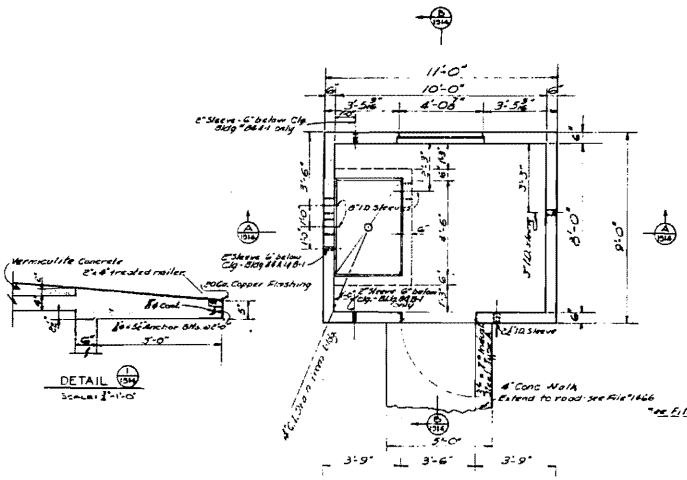
TA-8-25
Utility Building
Sheet 1 of 1
Elevation
Cold War Era Buildings
Historic Context
July 2006



TA-8-25 Southwest and Southeast Elevations

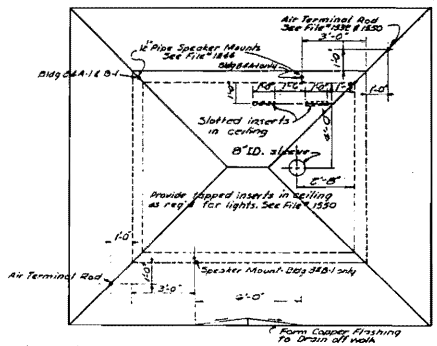


TA-8-25 Northeast and Northwest Elevations



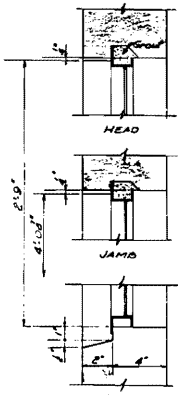
DETAIL (1/314)
Scale: ½"=1'-0"

FLOOR PLAN

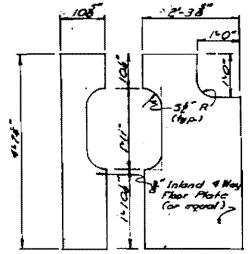


*re File #1413 for orientation of bldgs.

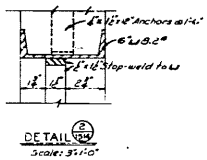
ROOF PLAN



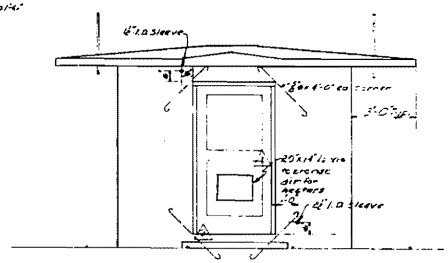
WINDOW DETAILS
Scale: 3"=1'-0"



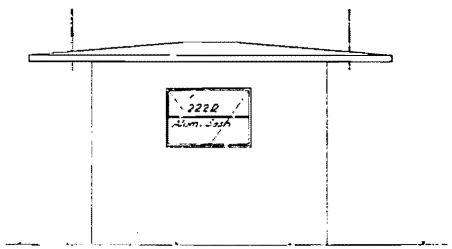
PIT COVER PLATE DETAIL
Scale: ½"=1'-0"
SEE ENG C-4918 FOR SHOP DWG



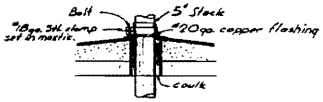
DETAIL (2/314)
Scale: 3"=1'-0"



FRONT ELEVATION



REAR ELEVATION



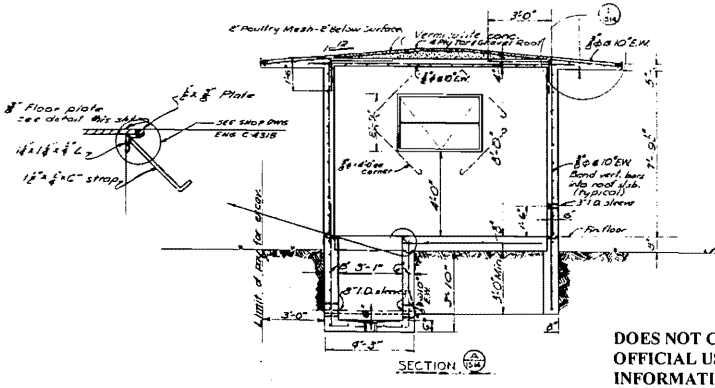
FLASHING DETAIL
Scale: ½"=1'-0

NOTES

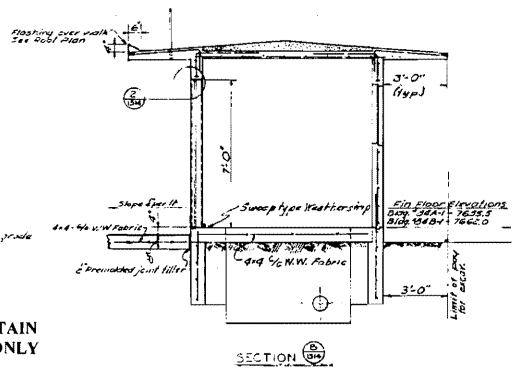
1. All concrete shall be Type A & shall develop a strength of 3000psi @ 28days.
2. Mix ½ lb. cement dispenser with each sack of cement used.
3. Reinf. shall be of intermediate grade deformed bars.
4. Bond reinf. steel by welding @ 5'-0" intervals in each direction. Bond all other metal to reinf. steel by direct weld or suitable metal straps.
5. Connect reinf. to grounding system with #1/0 bare stranded copper cable.
6. Interior wall forms shall be of plywood and walls shall be finished smooth. Exterior walls may be left rough.
7. Interior walls, ceiling and all exposed metal shall be given 3 coats of lead & oil paint.
8. All foundations shall be carried to solid bearing with a minimum excavation of 12 inches into rock. (Est.)
9. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to size.
10. Floors shall be given a smooth monolithic cement finish.
11. Exterior building walls shall be coated with metallic waterproofing.
12. Payment for extra foundation excavation as provided in special conditions shall be limited to 3'-0" outside conc. walls or cols or neat face of ftgs. whichever is greater.

REFERENCE DRAWINGS

Plot Plan	File # 1446
General Layout	1413
Electrical Layout	1330
Lightning Protection & Grounding Details	1396
Heating Layout	1574
	1448
WINDOWS	SEE SHOP DWG ENG C-4238
FRAMING	SEE SHOP DWG. ENG C-4307
DOOR	SEE SHOP DWG ENG C-4713, 4214 & 4715



SECTION (3/314)



SECTION (3/314)

DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/23/04

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)-644
CONNECTED
RECOMMENDED
APPROVED

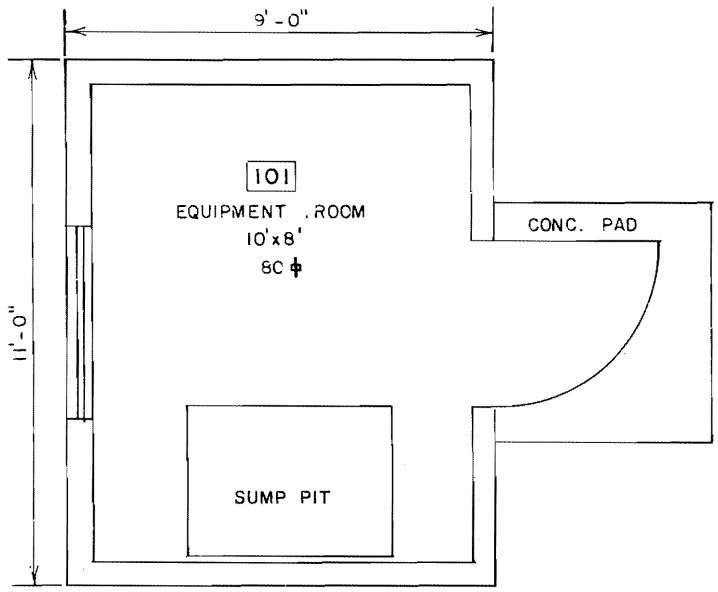
~~FOR OFFICIAL USE ONLY~~

Scale: ¾"=1'-0" unless otherwise noted

STRUCTURAL LAYOUT - BLDGS. (64A-1) & (64B-1) PLANS, SECTIONS & DETAILS			FILE NO. 1514
PROJECT B			DRAWN MAT 6-22-49
LOS ALAMOS	T. A. 8	NEW MEXICO	CHECKED J. H. S.
BLACK & VEATCH — CONSULTING ENGINEERS			APPROVED P. A. M.
			DATE 9-3-49
			SHEET 19 OF 113

E.E.C. DWG. NO. ENG-C 12477

SFA-FG-19



3/8" = 1'-0"

0 1 2 3 4 5

GRAPHIC SCALE

TOTAL SQ. FT. 80

REV.	DATE	REVISION	BY	CKD.	APP.
1	8-31-83	REDRAWN & REVISED TO STATUS OF AUGUST 31, 1983	H&N	Et	DP

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

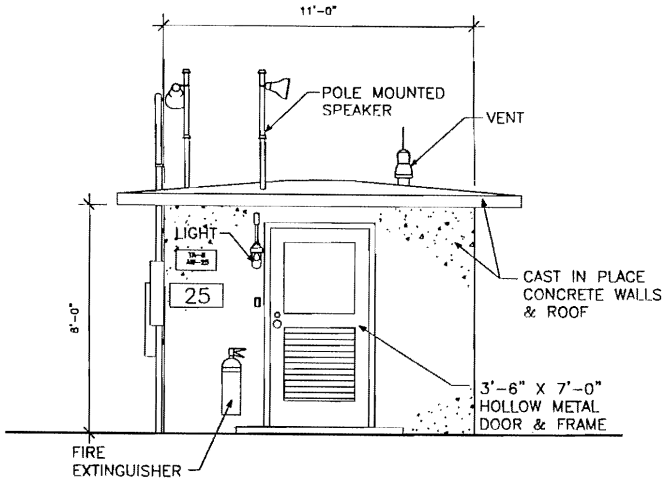
UTILITY BUILDING
FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER Rodriguez
DATE 3-6-84

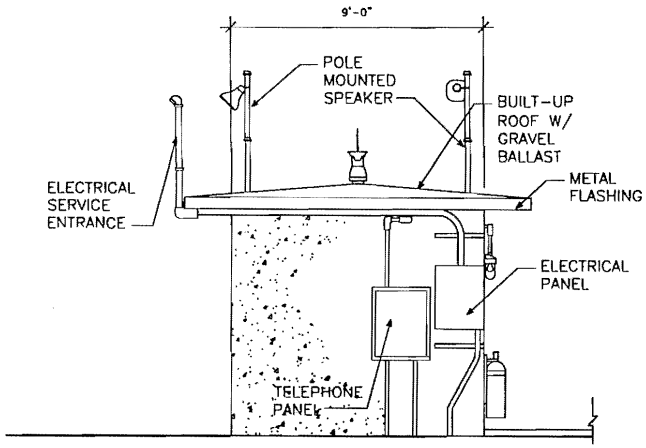
BLDG. AW-25 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E Trujillo	Dawn Hupp	W.T. Edwards

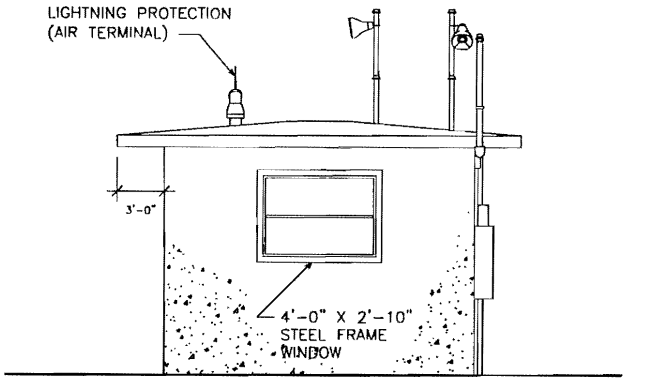
DRAWN	DATE	SHEET NO.	DRAWING NO.
H&N	7-21-64	1 OF 1	ENG-R2623
CHECKED Humble H&N			



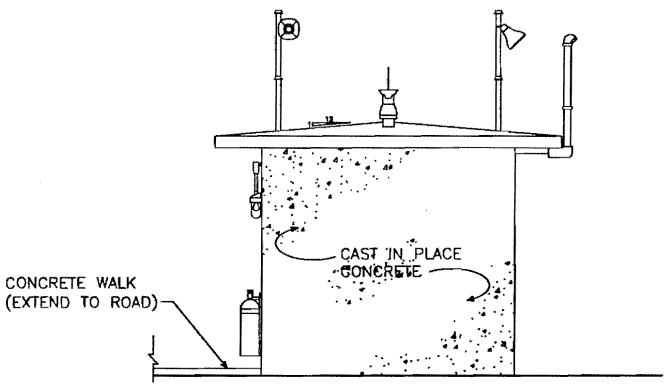
SOUTH-EAST ELEVATION (1 / A-1)
SCALE: 1/2"=1'-0



SOUTH-WEST ELEVATION (2 / A-1)
SCALE: 1/2"=1'-0



NORTH-WEST ELEVATION (3 / A-1)
SCALE: 1/2"=1'-0



NORTH-EAST ELEVATION (4 / A-1)
SCALE: 1/2"=1'-0

COLD WAR ERA BUILDINGS
HISTORIC CONTEXT

TA-8-25 UTILITY BUILDING

DRAWN	K. HONG
DESIGN	——
CHECKED	K. TOWERY
DATE	JUL 08

SUBMITTED | APPROVED FOR RELEASE

Los Alamos NATIONAL LABORATORY
PO Box 1663 Los Alamos, New Mexico 87545

SHEET A-1
1 OF 1

CLASSIFICATION U | REVIEWER | DATE

LANL TA- Building # 08-0026

Camera 984242

Frame #s DCP_ 2484 through DCP_2487

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Storage / Salvage Building UTMs easting 377964 northing 3969022 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Storage / Salvage Building Original Use/ Function Laboratory

Date (estimated) Date (actual) 1950 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☑ Wood Frame ☐ CMU ☐ Reinforced Concrete ☐

Other Type of Construction # of Stories 1

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☐ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior Aluminum panel construction.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Equipment includes lights, signage, and a fire extinguisher.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition Concrete apron

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Conical

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials The building has a very low-pitched conical roof constructed with steel roof trusses and purlins. The roof is finished with 4-ply tar and gravel roofing with 2 in. metal edge gypsum planks.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning

# of Each Window Type/ Comments Two-light aluminum frame awning style windows on south, west and north sides.

Glass Type Clear ☐ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐
CMU- Interior ☐ Plywood ☐ Other- Interior
In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Minor

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Good

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐
Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐
Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments This building was built for 60-cobalt radiography work.

Architectural Features (elevations) TA-8-26 is a one-story rectangular-in-plan building measuring 25 ft. by 25 ft 3 in. with an interior useable floor space of 576 ft2. The building is constructed with a poured concrete foundation and floor slab, 4 in. aluminum battens covered on the interior and exterior with ½ in. "Plymetal" panels. The building has a very low-pitched conical roof constructed with steel roof trusses and purlins. The roof is finished with 4-ply tar and gravel roofing with 2 in. metal edge gypsum planks. The approximate 3-ft-deep eaves are completely enclosed with aluminum panels. The only access into the building is from the east side via a pair of aluminum doors with the left door equipped with a small window. A concrete apron has been installed in front of the doors.

Total sq ft 576 net **Architect/ Builder** Black & Veatch Consulting Engineers/R.E. McKee

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 12475
Sheet 7 of 113
TA-8 (bldgs 84A & 84B) AW-26 & AW-30
TA-8-26 & TA-8-30
Structural Layout
Floor Plan, Elevation & Section
September 8, 1949

ENG-R 2524
Sheet 1 of 1
TA-8 Bldg. AW-26
TA-8-26
Laboratory Building
Floor Plan
August 26, 1983



TA-8-26 East Elevation



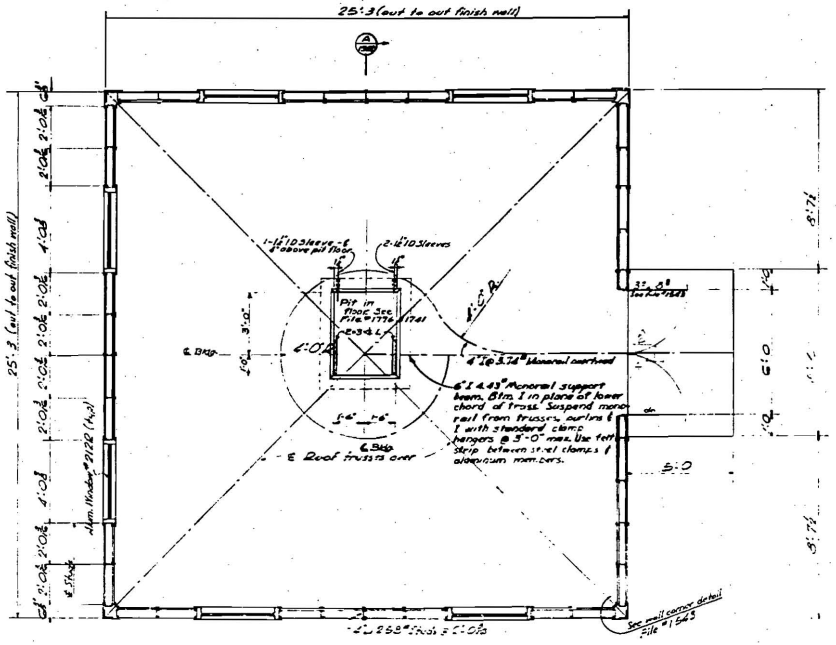
TA-8-26 South and East Elevations



TA-8-26 West and South Elevations

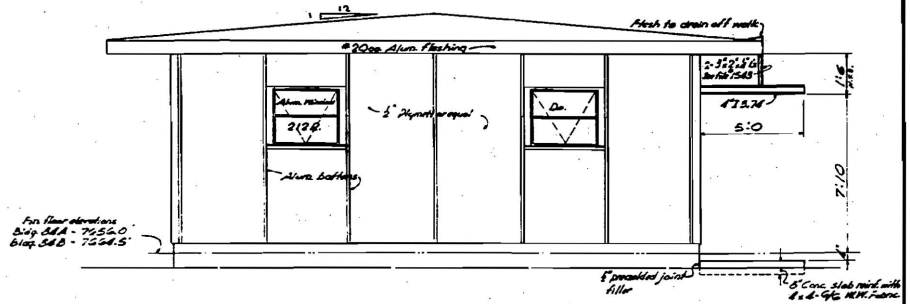


TA-8-26 North and West Elevations

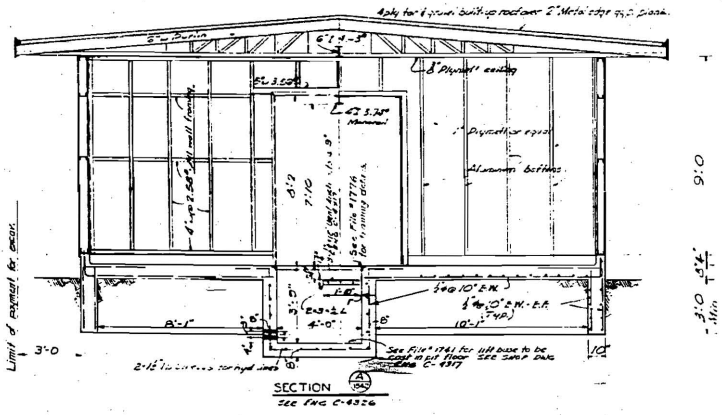


FLOOR PLAN

(See Plot Plan for bldg. orientation)



SIDE ELEVATION



SECTION

SEE ENG. C-4326

DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/23/04

General Notes

1. All concrete shall be type A4 shall develop a strength of 3000 psi @ 28 days.
2. Mix 5 lb. caseal dispersor with each sack of cement used.
3. Reinf. shall be intermediate grade deformed bars.
4. Sand reinf. slab by welding @ 2'-0 intervals in each direction. Bond all other metal to reinf. slab by direct weld or suitable metal strap.
5. Connect reinforcing to grounding system with #6 bare stranded copper cable.
6. All foundations shall be carried to solid bearing with a min. excavation of 12" into rock. (Tuff)
7. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to size.
8. Floors shall be given a smooth, monolithic cement finish.
9. Structural members shall be Aluminum Alloy 6S-TG - All connections welded.
10. Bolts, nuts & clips for attachment to Aluminum shall be Aluminum unless otherwise noted.
11. 8" & 6" wall & ceiling panels shall be Type UVU & 1" wall panels shall be Type USU Plymetl as m'f'd by Haskelite M'f'g Corp., Grand Rapids, Mich., or equal, with 040 Alum. covering.
12. Payment for extra fdtn. excavation as provided for in special conditions shall be limited to 3'-0" outside conc. walls or cols. or neat faces of footings, whichever is greater.

REFERENCE DRAWINGS

	File #
Plot Plan	1414
General layout	1415
Electrical layout	1523
Lightning protection & grounding details	1532
Heating layout	1574
Pit Installation-Hydraulic Lift	1741
Cover, Curtain, Frame-Hydraulic Lift	1776
WINDOWS & FRAMING - SEE SHOP DWGS. ENG C-4288 & 4287	

AS CONSTRUCTED DRAWING

No.	Mark	By	Date	Remarks
1				Revised to as-built status
2	1-31	MB-BWT	1/31	Revised to as-built status
3	5-41		5/41	Control Cabinet, Sub-Station, Unit Sub
4		MOD#10	MBH	Eliminate Metallic Weather Proofing
5	2-42		MBH	Revised Title
6		MOD 15 C.O. 22	MBH	Control Cabinet, Sub-Station, Unit Sub
7		MOD 19 C.O. 23	MBH	Install Door, Cover & Re-Align Hood
8		MOD 20	MBH	Install 20"x24" D.S. Panel as Shop Drwg.

See also File #1545 — By Jet No. — Eg.

STRUCTURAL LAYOUT BLDGS. 84A & 84B
FLOOR PLAN, ELEVATION & SECTION

PROJECT B

LOS ALAMOS — T.A. - 8 — NEW MEXICO

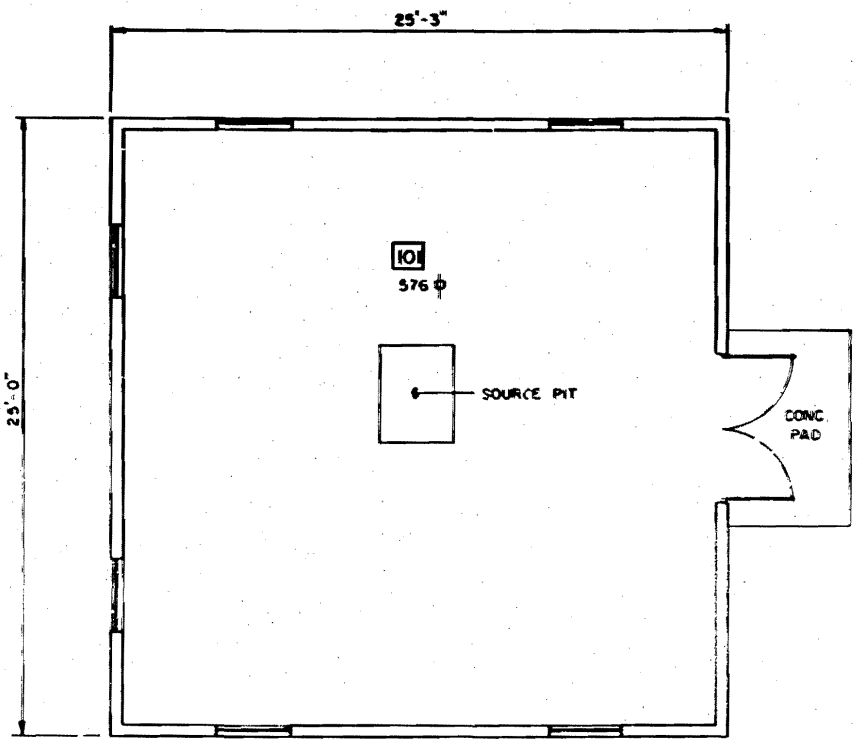
BLACK & VEATCH — CONSULTING ENGINEERS

File No.	1542
Drawn	K. Adams
Checked	J. W. G.
Approved	R. E. G.
Date	9-5-47
Sheet	17
No.	113

Submitted 10/31/47

DWG. NO. ENG-C-12475

SFA-FG-17



(3/16"=1'-0")

0' 5' 10'

GRAPHIC SCALE

BLDG. TOTAL 576 S.F.

MF

REV	DATE	REVISION	BY
1	8-26-83	REDRAWN & REVISED TO STATUS OF 8-26-83	H&N

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

LABORATORY BUILDING FLOOR PLAN

SEC CLASSIFICATION
CLASS
REVIEWER
DATE

BLDG. AW-26 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dan Fuqua	W. T. [illegible]

DRAWN	CHECKED	DATE	SHEET NO	DRAWING NO
H&N	H&N	8-26-83	1 OF 1	ENG-R 2624

NEW MEXICO HISTORIC BUILDING INVENTORY FORM

LA#

building threatened?	surveyed	County	ID no.
yes	date **2/9/99** by **K. L. M. Garcia**	**Los Alamos**	**TA-8-27**

field map	number	UTM reference: easting **377986** northing **3969098** zone **13**
LANL Orthotopo	**Sheet 2**	

location description	city/town
Technical Area (TA) 8, Anchor Site West	**Los Alamos** land grant/reservation **n/a**

building name	legal description **USGS Frijoles 7.5 Series**
TA-8-27, Original name **AW-27 (Anchor West – 27) (Project B, Building 85)**	tnsp **19N** range **6E** sec **19** **NE¼ SW¼ SW¼**

film roll: **1048** by nos. **ESH-20 Photos on file at ESH-20**	Negative nos. **10A & 12A Also digital photos on file at ESH-20 by building number**	location of neg. **LANL, ESH-20**	date of construction _____ estimate **1950** actual source **Facilities Division Engineering 9 (F-9) records (LANL)**

Style	Foundation material	Use	Condition
Reinforced concrete with flat roof (See below for more information)	**Concrete slab** Wall material/surface **Reinforced concrete with steel lined interior walls and ceiling.**	Present residential ✔ other **Abandoned** historic residential ✔ other **Vault**	___ excellent **X** fair to **X** good ___deteriorating

degree of remodeling	Surroundings	Relationship to surroundings	district potential
X minor ___ moderate ___major describe: **Door modifications**	**Developed** **Laboratory** **Technical Area 8**	**X** similar __ not similar	____ yes **X** no

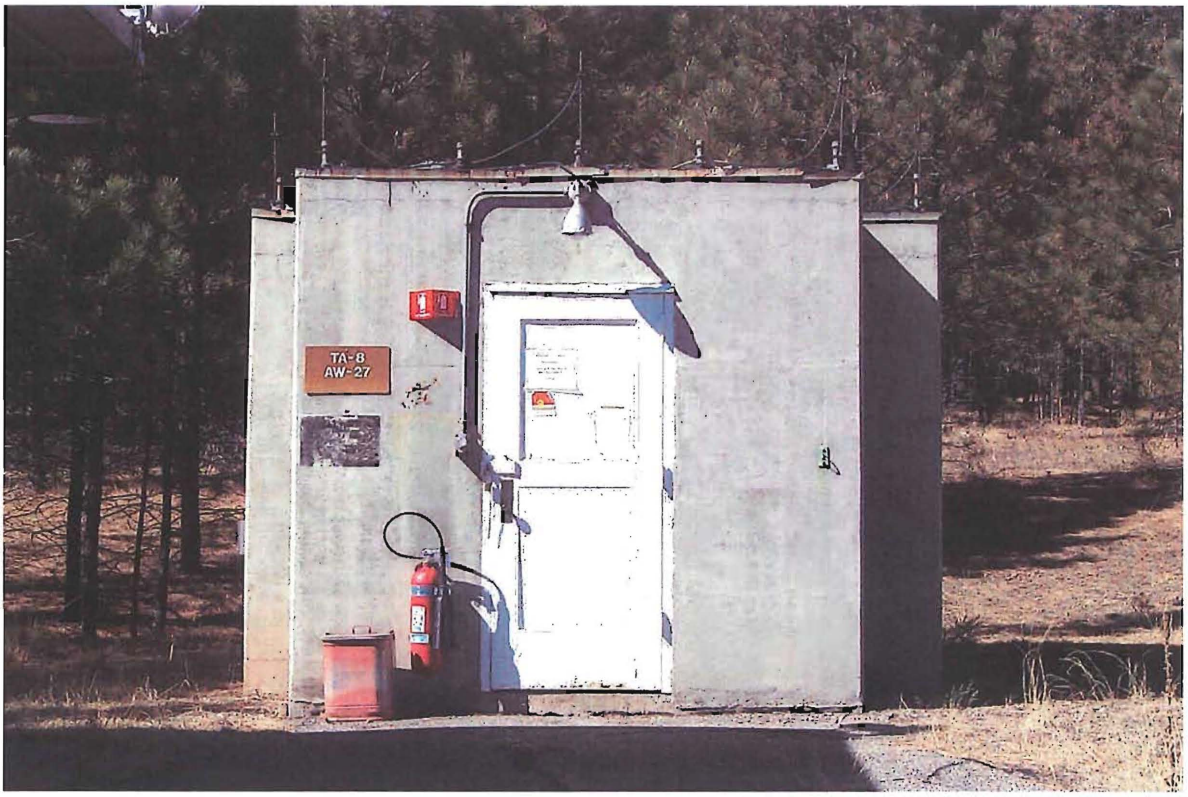
Significance ___Eligible ____of interest __X__none if not eligible, why? **Building TA-8-27 is a storage vault.** **This vault was built in 1950 for fissionable materials associated with the new radiography facility that was built at this TA in the early 1950s.** **This TA was the original site of the Manhattan Project Gun-Firing Site (Old Anchor West) where prototypes of the Little Boy weapon (a gun-assembled nuclear weapon) were tested in 1945. "Gun testing was not resumed after the War. The gun weapon, although reliable, required large quantities of enriched uranium, and the program was abandoned in favor of the development of implosion weapons" (Los Alamos National Laboratory 1993:2-10).** **In 1949-1950 new construction began at TA-8 at the New Anchor West location. The new buildings were constructed to house the Group X-2 (later GMX-1), which had been developing x-ray techniques at another location. At this same time many of the original buildings were removed and one building was relocated within the site and later removed. These new buildings were for office space, photographic-processing labs, and laboratories for various types of x-ray work, some of which involved the use of contained radioactive sources.**	associated buildings? _X_ yes what type? A **guard station and two magazines** if inventoried, list ID nos. **TA-8-28, a guard station; TA-8-31 and TA-8-32, magazines**	Photos and plan drawings are on following pages **ENG-C 12478 (sheet 20 of 113)** **Project B, TA-8** **Structural Layout** **As Constructed Drawing** **September 8, 1949** **ENG-C 19340** **Exterior Door Modifications** **Plans-Elevations-Section** **October 17, 1961** **ENG-R 2625** **Vault** **Floor Plan** **August 26, 1983** size: **189 ft²**

Architectural features: **Building TA-8-27 is a vault. It is a roughly rectangular building with a flat roof constructed of reinforced concrete. It has two rooms and a vault door.** **The interior walls and ceiling are steel lined. The steel is painted with oil base lead paint. The floor has a smooth monolithic cement finish.** **Exterior walls were left rough. The roof and exterior wall were coated with metallic waterproofing.** **The exterior door was modified in 1961.**	Comments: **There is no evidence of any radioactive contamination associated with this building (Los Alamos National Laboratory 1990 and 1993).**

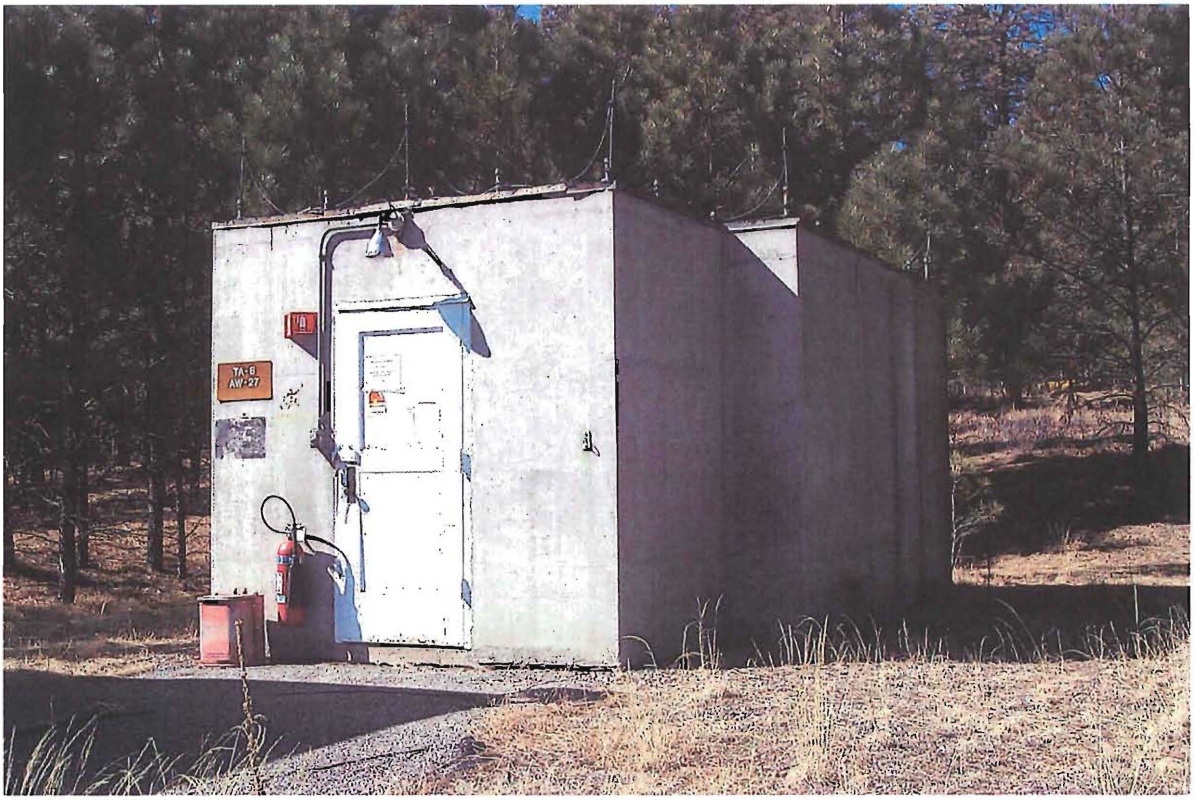
Los Alamos National Laboratory

1990 *Solid Waste Management Units Report, Los Alamos National Laboratory Environmental Restoration*, LA-UR-90-3400, Los Alamos National Laboratory, Los Alamos, New Mexico.

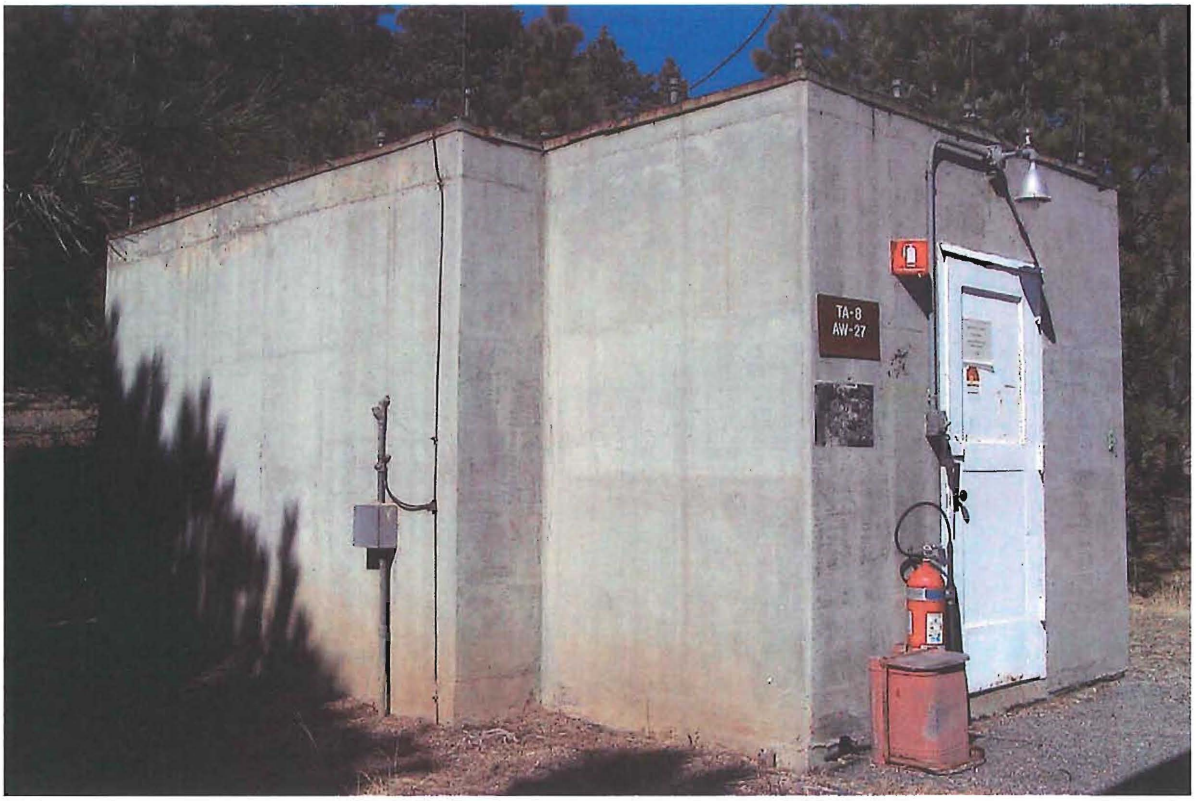
1993 *RFI Work Plan for Operable Unit 1157: Environmental Restoration Program.* LA-UR-93-1230, Los Alamos National Laboratory, Los Alamos, New Mexico.



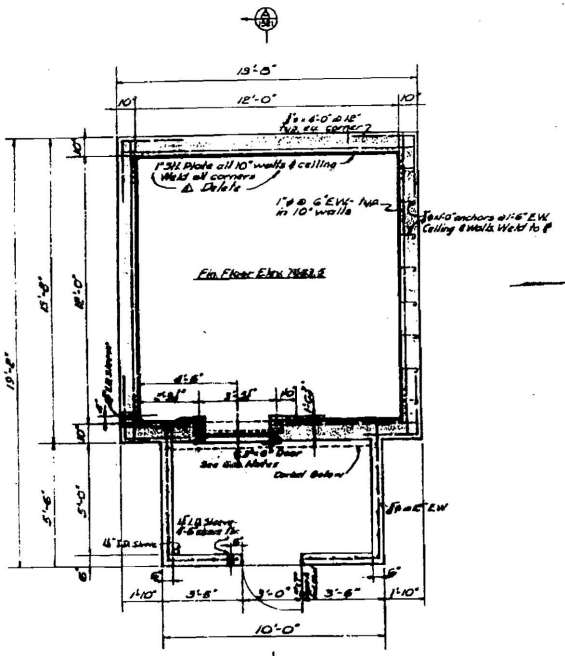
TA-8-27 East Side



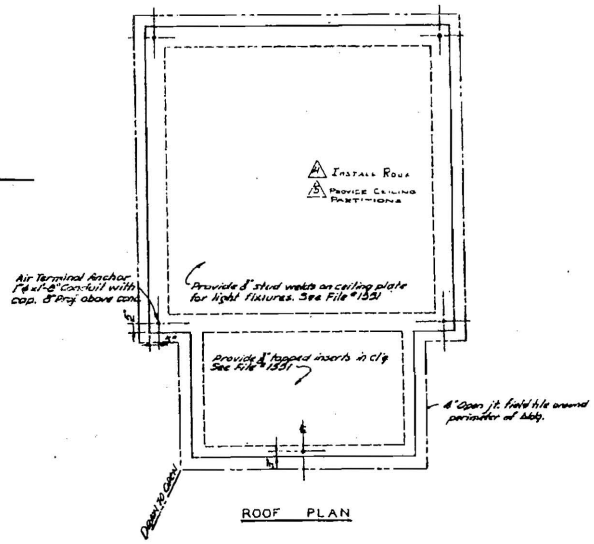
TA-8-27 East and North Sides



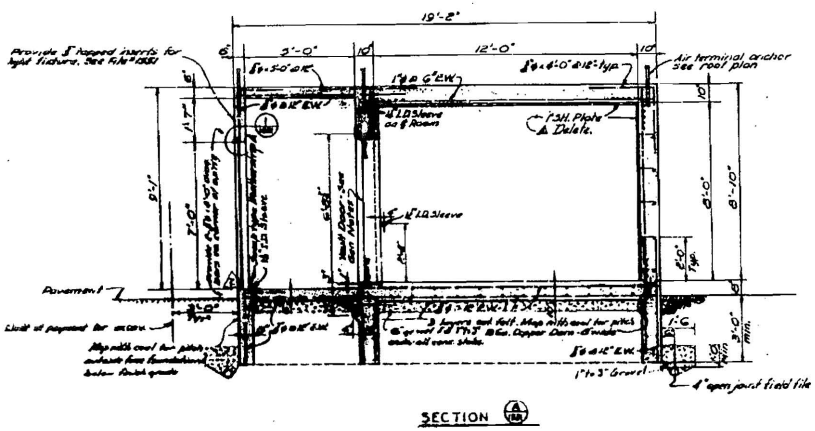
TA-8-27 South and East Sides



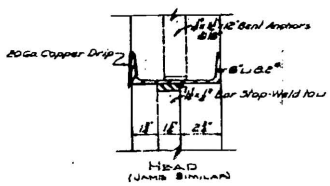
FLOOR PLAN



ROOF PLAN



SECTION



EXTERIOR DOOR FRAME DETAIL

Scale: 3"=1'-0"

GENERAL NOTES

1. All concrete shall be Type A and shall develop a strength of 3,000 p.s.i. @ 28 days.
2. Mix 1 lb. cement dispenser with each sack of cement used.
3. Reinforcement shall be intermediate grade deformed bars.
4. Bond reinforcing by welding at 3'-0" intervals in each direction. Bond all other metal to reinforcing steel by direct weld or suitable metal strap.
5. Connect reinforcing to grounding system with #1/0 bare stranded copper cable.
6. All steel plates and anchors shall be mild steel.
7. Steel plate lining shall be cast in place & may be used as forms.
8. Exterior walls may be left rough.
9. Interior steel walls & ceiling shall be given 3 coats of lead and oil paint.
10. All foundations shall be carried to solid bearing with a minimum excavation of 12" into rock (Tuff).
11. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to a 6:8.
12. Floors shall be given a smooth monolithic cement finish.
13. Roof and exterior walls shall be coated with metallic waterproofing
14. A Class E vault door, as required by the National Bureau of Casualty & Security Underwriters shall be furnished & installed by the Contractor where shown on dwg. Install per mfgrs recommendations. Verify masonry opng dimensions. Door shall be operable from the inside.
15. Payment for extra foundation excavation as provided in special conditions shall be limited to 3'-0" outside conc. walls or cols. or neat lines of footing whichever is greater.

REFERENCE DRAWINGS

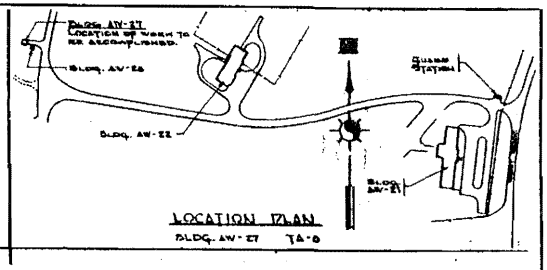
Plot Plan	Eng. # 1444
General Layout	1419
Electrical Layout	1931
Lightning Protection & Grounding Details	1852
Doors See Shop Dwg	ENG D - 9318

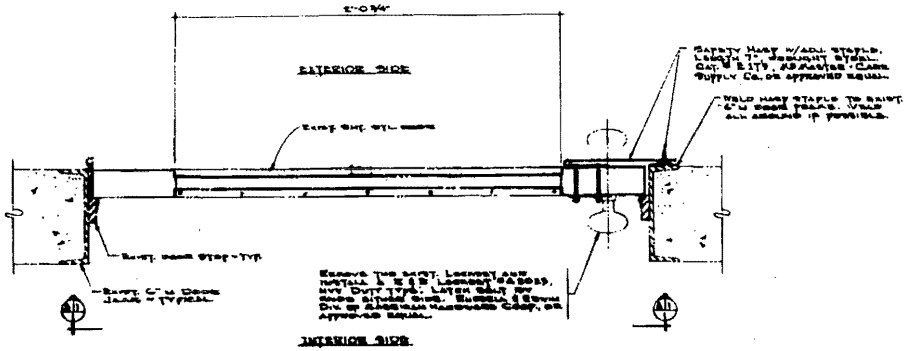
AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. 41-(29-)1444
SUBMITTED
RECOMMENDED
APPROVED

VERIFIED UNCLASSIFIED

FOR OFFICIAL USE ONLY

| | | |

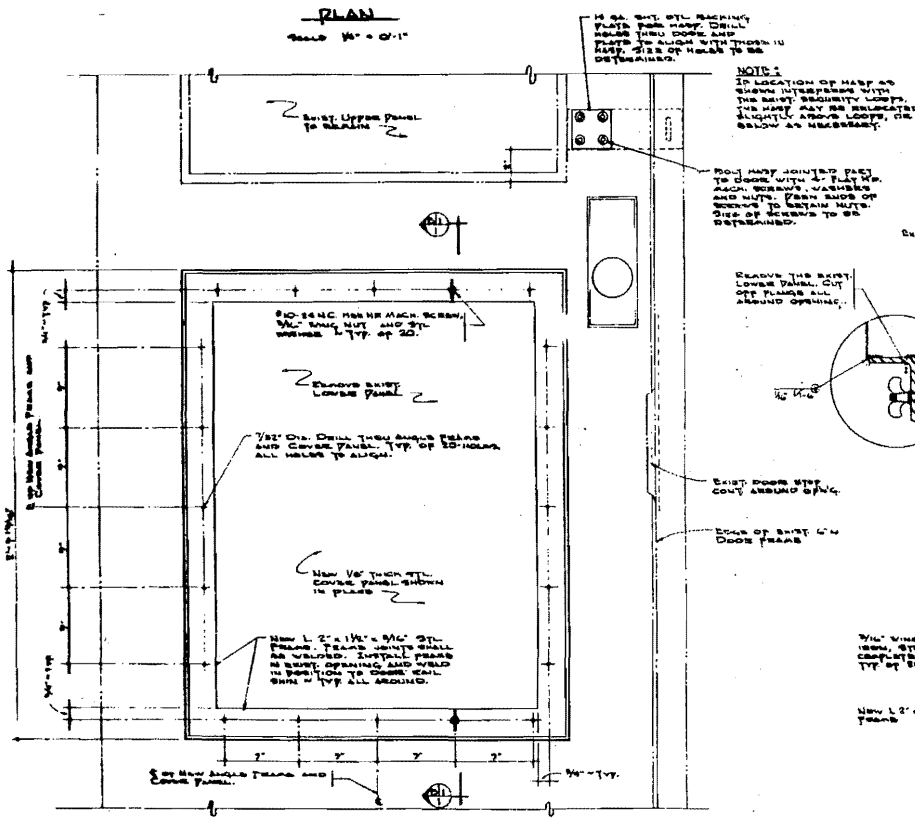




EXTERIOR DOOR MODIFICATIONS

PLAN

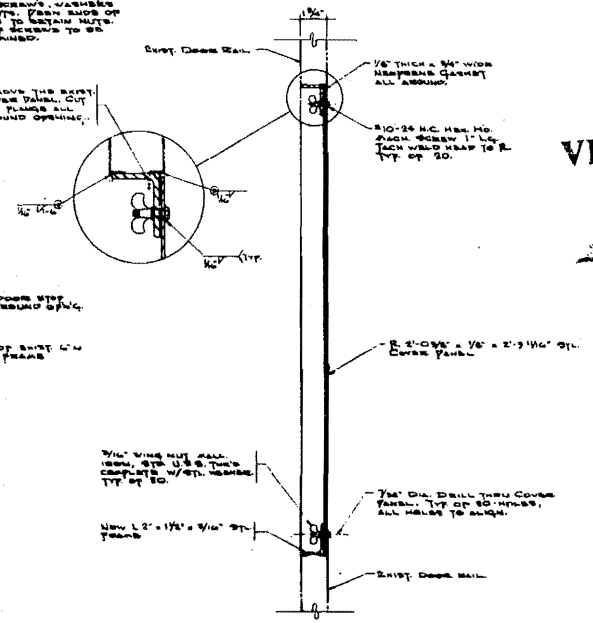
Scale 3/4" = 0'-1"



INTERIOR DOOR ELEVATION

ELEVATION (A1)

Scale 3/4" = 0'-1"



SECTION THROUGH NEW LOWER DOOR PANEL

SECTION (A1)

Scale 3/4" = 0'-1"

GENERAL NOTES

1. PAINT ALL NEW WORK AND SURFACES DAMAGED DURING THE INSTALLATION WITH 1 PRIME COAT OF DUPONT METAL PRIMER, AND THE EXTRA DOOR (INTERIOR AND EXTERIOR), EXCEPT THE HASP AND LOCKSET, WITH 1 FINISH COAT OF 9 HT "GRAY METAL PROTECTIVE PAINT." SEE CAT. OF PAINT - L.A.S.L. STD. TYPES AND COLORS.
2. KEYWAY FOR THIS EXTERIOR DOOR WILL BE FURNISHED BY L.A.S.L. CONTACT GROUP ENG-4.

VERIFIED UNCLASSIFIED

Susan Rich

THIS AS MADE BE INSPECTED AND ANY CHANGES APPROVED BY ENG-4
ENGR Stevenson FROM 7-4806

AUTHORIZED FOR CONSTRUCTION

NO.	DATE	REVISIONS	BY	CHKD

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

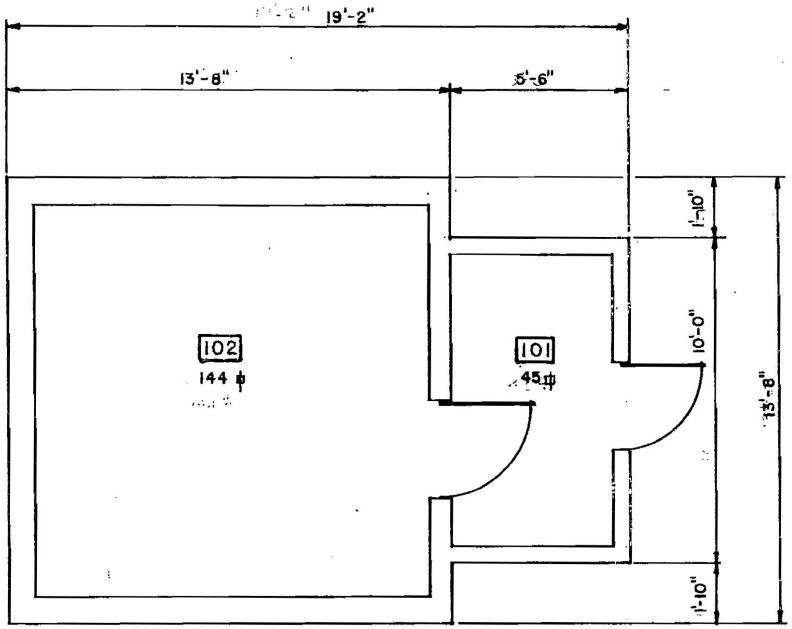
EXTERIOR DOOR MODIFICATIONS
PLANS - ELEVATION - SECTION & GEN'L NOTES
BUILDING AW-27 TA-8

DESIGNED	DRAWN	APPROVED	
CHECKED	DATE OCT. 17, 1961	SCALE AS NOTED	DRAWING NO. ENG-C-19340
SUPERVISION	SHEET 1 of 1		

B.A. NO. LAB JOB NO. 2604

REC'D ENG-3 LOGGED VAULT

TA-8-27
Exterior Door Modifications
Plans-Elevations-Section
October 17, 1961



TA-8-27
Vault
Floor Plan
August 26, 1983

VAULT

(1/4"=1'-0")
0' 2' 4' 8'
GRAPHIC SCALE

BLDG. TOTAL 1989 S.F.

MF

REV.	DATE	REVISION	BY	CKD.
1	8-26-83	REDRAWN & REVISED TO STATUS OF 8-26-83	H&N	

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

VAULT
FLOOR PLAN

SEC. CLASSIFICATIO
CLASS. U
REVIEWER
DATE 10-14-

BLDG. AW-27 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dawn Ruys 8/8	W.T. Fox

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	H&N	8-26-83	1 OF 1	ENG-R 2625

2625

REC'D ..... LOGGED ✓ TO VAULT 11-3-83

LANL TA- Building # 08-0028

Camera 984242

Frame #s DCP_2471 through DCP_2473

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Guard Station UTMs easting 377993 northing 3969093 zone 13

Legal Description: Map Frijoles Quad 1984 tnsp 19N range 6E sec 19

Current Use/ Function Guard Station Original Use/ Function Guard Station

Date (estimated) Date (actual) 1950 Property Type Security

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 1

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior building elements include pendant-style light fixtures and signage.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Low pitched, concrete conical roof.

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☑

Other Roof Materials Concrete conical roof finished with a built up 4-ply tar and gravel roofing and copper fascia.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Hopper

# of Each Window Type/ Comments Three-light steel sash hopper windows are located on all four sides of the building.

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern 3-light

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☑
Louvered ☐ Painted ☑

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 1 door

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☐ Good ☐ Fair ☑ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s Other buildings within the Technical Area.

Integrity Fair

Significance

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments Technical Area 8 was originally called Anchor West (AW), therefore AW-28 is building number TA-8-28.

Architectural Features (elevations)

This one-story building measures 9 ft 4 in. by 9 ft 4 in. The building is constructed with a 6 in. concrete floor slab with a perimeter foundation, 1 ft thick concrete walls, and a very low pitched, concrete conical roof finished with a built up 4-ply tar and gravel roofing and copper fascia. The eaves cantilever 3 ft out from the face of the building on all four sides.

Total sq ft 64 Net

Architect/ Builder Black & Veatch Consulting Engineers/ R.E. McKee

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 12508
Sheet 50-A of 113
TA-8 (Building 90A) AW-28
TA-8-28
Layout & Details
October 10, 1949

ENG-R 2626
sheet 1 of 1
TA-8, Buuilding AW-28
TA-8-28
Floor Plan
July 14, 1964

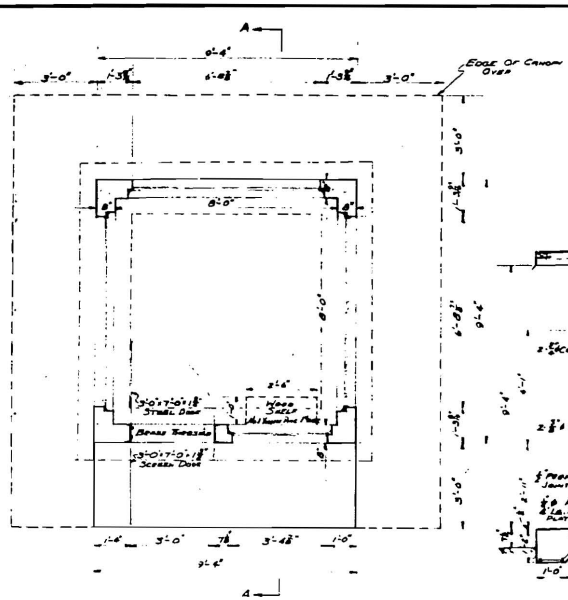
TA-8-28
Project "B"
Guard Station
Sheet 1 of 1
Elevation
Cold War Era Buildings
Historic Context
July 2006

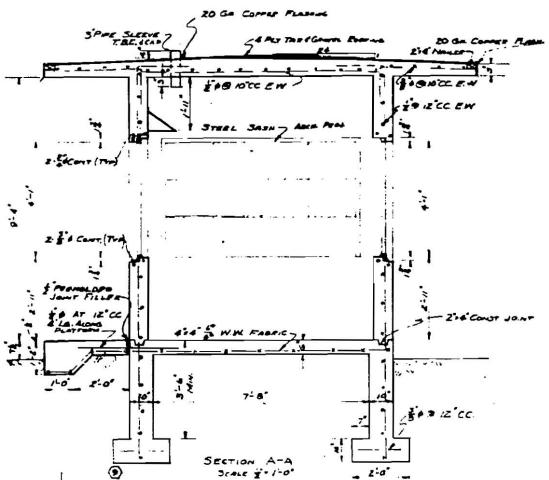


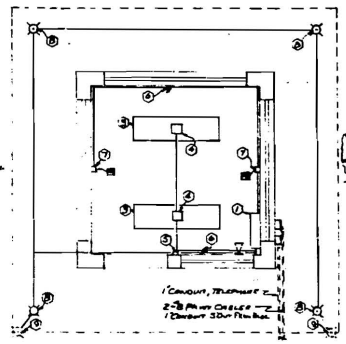
TA-8-28 North and West Elevations



TA-8-28 South and East Elevations

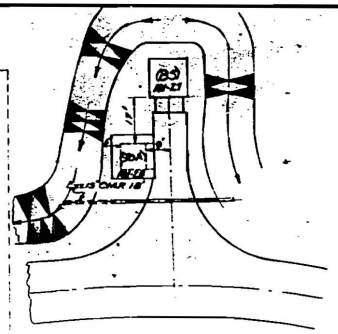






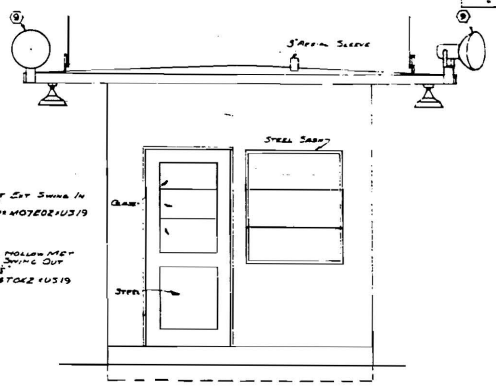
Note

1. Add Circuit Breaker On Pole In Tailgate Carey 4" Schedule Thin Conduit Run 4 Cables & 1 Conduit In Road Shoulder To Building Cable Run To 225 Amp-1T
2. All Conduit To Be 2½" Rigid & #12 2C Wire
3. Install 2 Portable 5KE RAY, 1000 W Electric Heaters



Material List

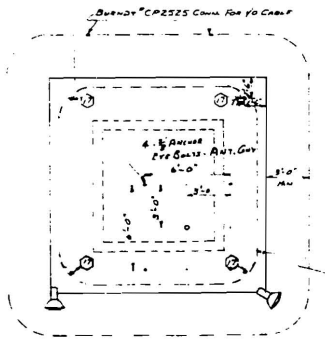
1	Westinghouse NLAB-6AB, 6-60Amp Bases, 1-30 And Below
2	G.I. Elec. Co. Y1216-8"-6"-4" Sys. Unpainted, Pull Box With Cover & Gasket
3	Westinghouse EFP3-40 Watt Lamps, Instant Start Fluorescent
4	Fixture, Surface, 96" Wireable, Housing & Raceway, 2 Curved Acrylic
5	Standard 4"Sq 2⅛" Deep Cable Outlet Box & Plaster Cover.
6	Appleton Handle 2-1320 Single Convenience Outlet.
7	F3 Type Continuity And D323 Plate With Stamped Duplex Recep.
8	Bell Iron Elec. Mfg. Co. #3961 And 108 mm Elm Conductor, Insulated Grd 6" Oct Outlet Box Flat Cover With ½" KO & Short ½" Nipple
9	Westinghouse Type AN16-300 Watt Wide Beam Sylvania Lamp Floodlight.
11	
12	#16-2 Conductor Type S All Rubber Cord.
13	Cm.Co. # CGB 296 Rubber Bushing Strain Connector.
15	Special Std. Conduit To Be Bent Thin Wall Conduit. A 2" x 2" x 2" C With 2 2"-1/2 C Plates Welded, For Angle.
16	½"x24" Copperweld Air Terminal Conductor.
17	Arlon Pipe Approx 1½" Long, 1 Cap.
18/19	Burndy # GB1126 Connector For 2" Rod & 1/0 Cable
20	Special Metal Collar Around Each 1" Rod Thin Steel, 2" High Collar (Bolt Clamp), Soldered To Plate 13" Square, Made Of Copper Material. Place Below & At Top Of Gravel Ballast.
21	Burndy # GE 1526 Connector For 1/0 Cable
18	Burndy # GA 1326 Connector For 1" Pipe & 1/0 Cable



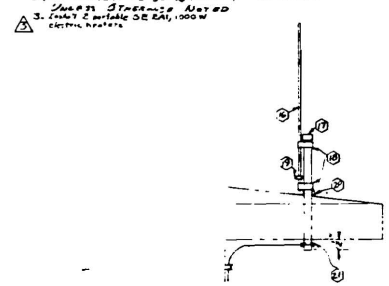
Door Hardware

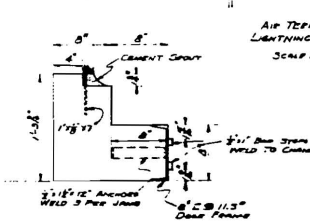
One Door 3'-0"x7'-0"x1¾" Hollow Met Ext Swing In
1½ Pair Butts, BB-254-H, 4½"x4½"
1 Lock Set Best Or Equal, 9508W 7D7E0Z 4U3/9
1 Holder #F 2040
1 Stop, #F 340-D
1 Door Closer, D-4

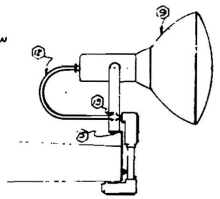
One Screen Door 3'-0"x7'-0"x1¾" Hollow Met Ext Swing Out
1½ Pair Butts, BB-254-H, 4½"x4½"
1 Latch Set Best Or Equal, 4T0KZ 4U3/9



1/0 Bare Copper Main Lead Around Roof Connecting Air Terminals Together & Down 3 of Four To 1/0 Buried Ground Conductor







Refer To Notes File # 1514 Applicable

All Applicable Specs On Contract No AT-(29-1)-844 Apply To This Job.

3	12-57	As-Built	DDS		
2	1-57	As Built	WHE		
1	8-56		WHE		
3		Mod. 12	WHE		
2		Mod. 12	WHE		
1		Mod. 12	WHE		
NO	DATE	STATUS	BY	CK	

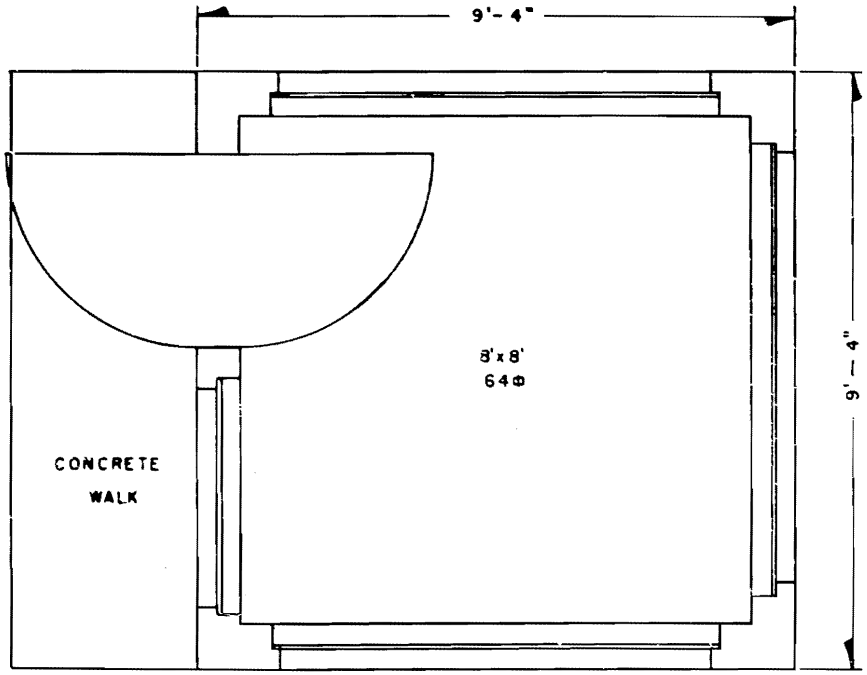
Building (90A) AW-28
Layout & Details

Project "B"
TA-5
Los Alamos New Mexico

Black & Veatch — Consulting Engineers

File No. Area Office	1016-1188
Drawn	H.G.B.
Approved	
Date	
Sheet	50-A
Of	113

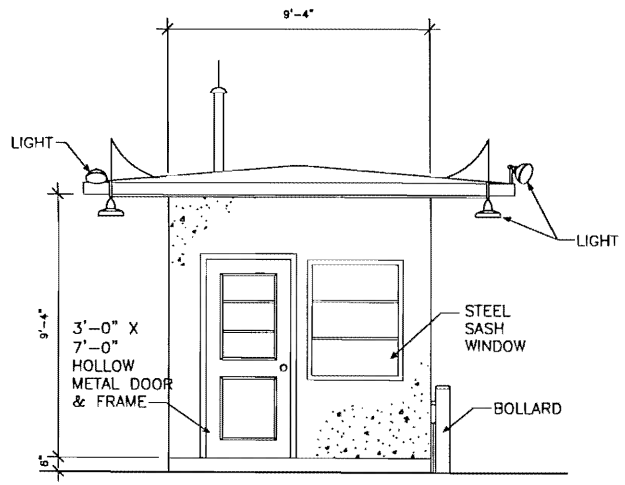
L.A.S.L. DWG. NO. ENG-C 12508



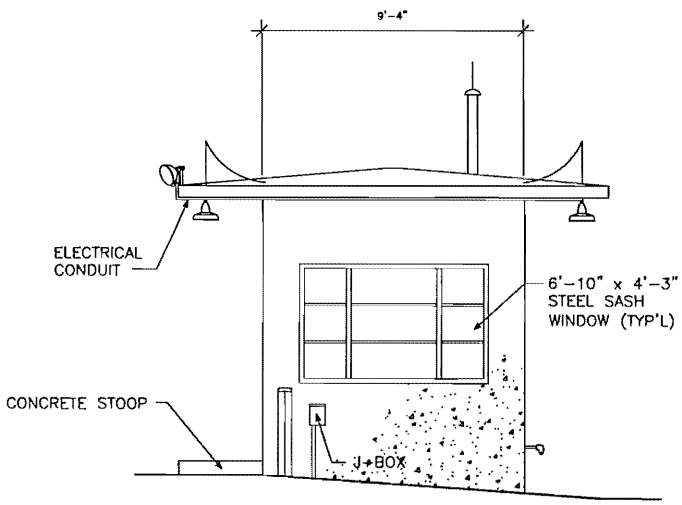
LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. AW-28 TA-8	
APPROVALS: ENG. GROUP: 3 SER DIVISION: ENG. DEPT. OFFICE:	DESIGN: DESIGNER: HARRISON PROJ. ENG.:	DATE 7/14/64 SHEET 1 OF 1	SCALE 1/2"= 1'-0" SKETCH NO. ENG.-R 2626

AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	
SEC.	

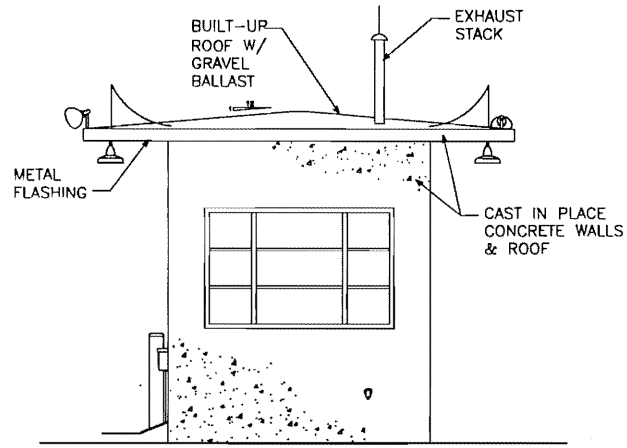
TOTAL SQ. FT. 64



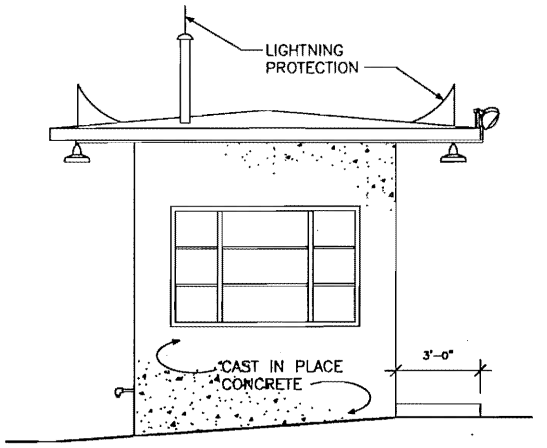
NORTH ELEVATION
SCALE: 1/2"=1'-0 (1 A-1)



WEST ELEVATION
SCALE: 1/2"=1'-0 (2 A-1)



SOUTH ELEVATION
SCALE: 1/2"=1'-0 (3 A-1)



EAST ELEVATION
SCALE: 1/2"=1'-0 (4 A-1)

COLD WAR ERA BUILDINGS
HISTORIC CONTEXT

DRAWN	K. HONIG
DESIGN	—
CHECKED	K. TOWERY
DATE	JUL 06

TA-8-28 PROJECT "B"
SUBMITTED APPROVED FOR RELEASE

Los Alamos NATIONAL LABORATORY
PO Box 1663 Los Alamos, New Mexico 87545

SHEET A-1
1 OF 1

CLASSIFICATION U REVIEWER DATE

LANL TA- Building # 08-0029

Camera 984242

Frame #s DCP_2464 through DCP_2466

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Utility Building UTMs easting 378033 northing 3969180 zone 13

Legal Description: Map Frijoles Quad 1984 tnsp 19N range 6E sec 19

Current Use/ Function Utility Building Original Use/ Function Utility Building

Date (estimated) Date (actual) 1950 Property Type Support

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 1

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Building elements include lights, signage, fire extinguisher, and two junction boxes.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Low pitched, concrete conical roof.

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Concrete with tar and gravel.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning style

# of Each Window Type/ Comments 1 window

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern 2-light awning style.

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐

Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☑ Painted ☑

Interior — Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types — Exterior — Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior — Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: 1 door

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☑

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☐ Good ☐ Fair ☑ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☑

If yes, list building names and #s This building is the same floorplan as TA-8-25. It is associated with other buildings within the TA.

Integrity Good

Significance

Eligible Under Criterion A ☐ B ☐ C ☐ D ☐ Not Eligible ☑

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments Technical Area 8 was originally called Anchor West (AW), therefore AW-29 is building number TA-8-29.

Architectural Features (elevations)

A small, one-story rectangular in plan building measuring 11 ft by 9 ft. The building is constructed with a concrete perimeter foundation, 8 in. thick concrete floor slab, concrete walls, and a very low-pitched concrete conical roof finished with a 4-ply tar and gravel roofing.

Total sq ft 80 Net

Architect/ Builder Black & Veatch Consulting Engineers/ R.E. McKee

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 12477
Sheet 19 of 113
TA-8 (Bldg 84A-1 and 84B-1) AW-25 and AW-29
TA-8-25
Structural Layout
Plans, Sections, & Details
September 8, 1949

ENG-R 2627
Sheet 1 of 1
TA-8, AW-29
TA-8-29
Utility Building
Floor Plan
July 23, 1964

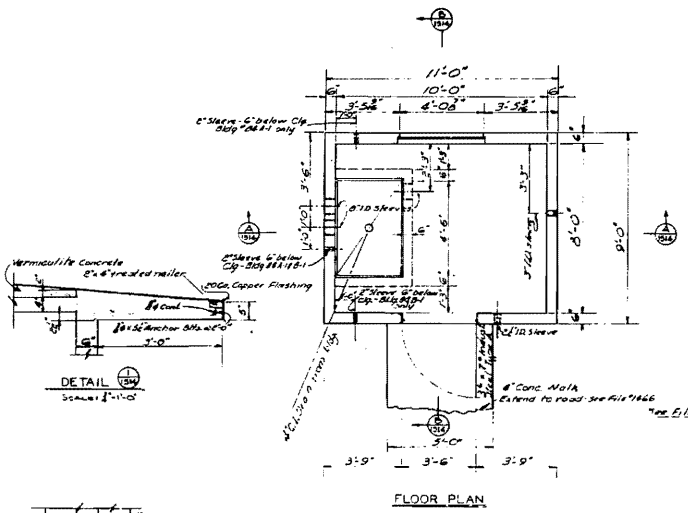
TA-8-29
Utility Building
Sheet 1 of 1
Elevation
Cold War Era Buildings
Historic Context
July 2006



TA-8-29 South and East Elevations

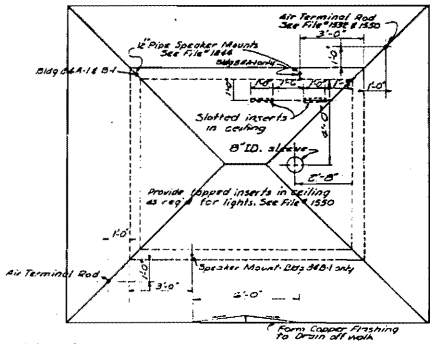


TA-8-29 North and West Elevations



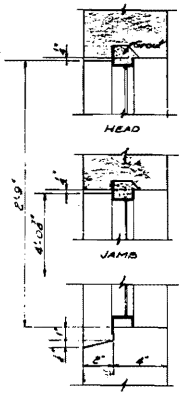
DETAIL

FLOOR PLAN

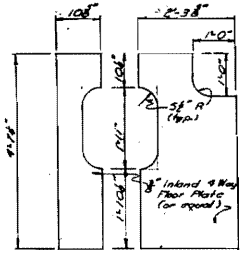


*see File #1413 for orientation of bldgs.

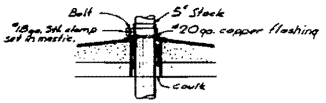
ROOF PLAN



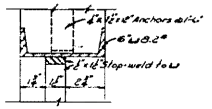
WINDOW DETAILS
Scale: 3"=1'-0"



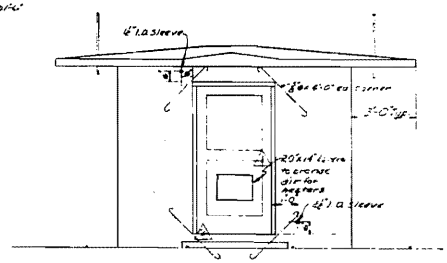
PIT COVER PLATE DETAIL
Scale: 1"=1'-0"
SEE ENG C-4318 FOR SHOP DWG



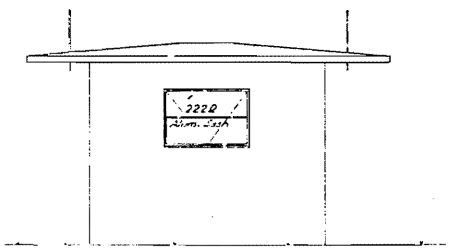
FLASHING DETAIL
Scale: 1"=1'-0



DETAIL
Scale: 3"=1'-0"



FRONT ELEVATION



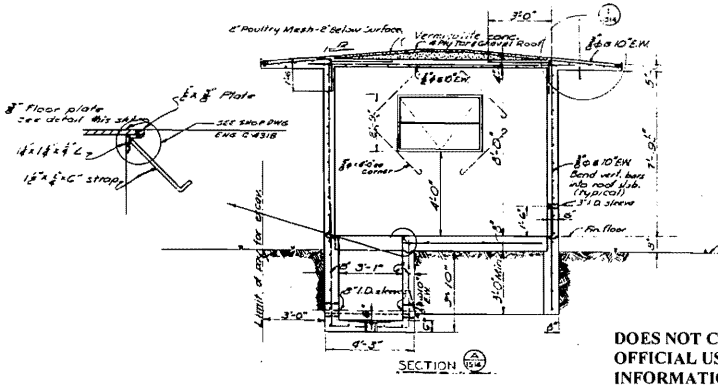
REAR ELEVATION

NOTES

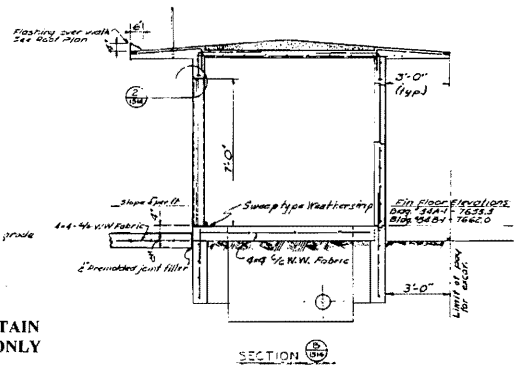
1. All concrete shall be Type A & shall develop a strength of 3000psi @ 28days.
2. Mix 2 lb. cement disperser with each sack of cement used.
3. Reinf. shall be of intermediate grade deformed bars.
4. Bond reinf. steel by welding @ 5'-0" intervals in each direction. Bond all other metal to reinf. steel by direct weld or suitable metal straps.
5. Connect reinf. to grounding system with #1/0 bare stranded copper cable.
6. Interior wall forms shall be of plywood and walls shall be finished smooth. Exterior walls may be left rough.
7. Interior walls, ceiling and all exposed metal shall be given 3 coats of lead & oil paint.
8. All foundations shall be carried to solid bearing with a minimum excavation of 12 inches into rock. (Soft)
9. Foundation walls 2' below finish grade may be poured without forming provided trenches are cut to size.
10. Floors shall be given a smooth monolithic cement finish.
11. Exterior building walls shall be coated with metallic waterproofing.
12. Payment for extra foundation excavation as provided in special conditions shall be limited to 3'-0" outside conc. walls or cols or neat face of ftgs. whichever is greater.

REFERENCE DRAWINGS

Plot Plan	File # 1444
General Layout	1413
Electrical Layout	1330
Lightning Protection & Grounding Details	1392
Heating Layout	1574
	1444
WINDOWS	SEE SHOP DWG ENG C-4238
FRAMING	SEE SHOP DWG ENG C-4307
DOOR	SEE SHOP DWG ENG C-4213, 4214 & 4215



SECTION



SECTION

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)-647
SUBMITTED J. G. Kennedy
RECOMMENDED
APPROVED

DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/23/04

~~FOR OFFICIAL USE ONLY~~

Scale: 3"=1'-0" unless otherwise noted

1	12/1/57	AS-BUILT	JPC	NJB
2	12/2/54	AS BUILT	TNG	
3	2-4-53		JH	
4	2-4-53		W.H.	
5			MOD 17	
6				

REVISED TO AS-BUILT STATUS PER 12/1/57 NO. REVISION REQUIRED TO AS-BUILT STATUS

STRUCTURAL LAYOUT - BLDGS. (64A-1 & 64B-1) PLANS, SECTIONS & DETAILS

FILE NO. 1514

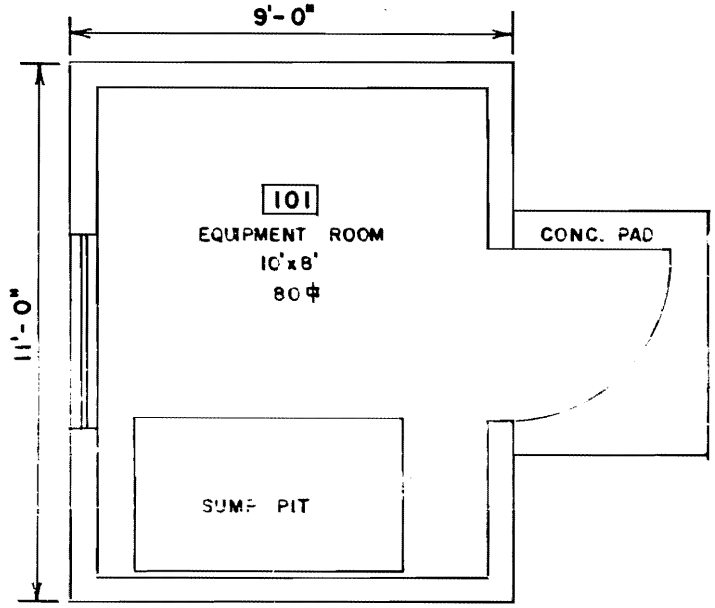
PROJECT B
T.A. 8
LOS ALAMOS NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

DRAWN MAT 6-22-49
CHECKED J.W.S.
APPROVED R.F. Mat
DATE 7-9-49
SHEET 19 OF 113

E.S.E. DWG. NO. ENG-C 12477

SFA-FG-19



3/8" = 1'-0"

0 1 2 3 4 5

GRAPHIC SCALE

TOTAL SQ. FT. 80

REV	DATE	REVISION	BY	CHD.	APP
1	8-31-83	REDRAWN & REVISED TO STATUS OF AUGUST 31, 1983	H&N		DP

MF

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

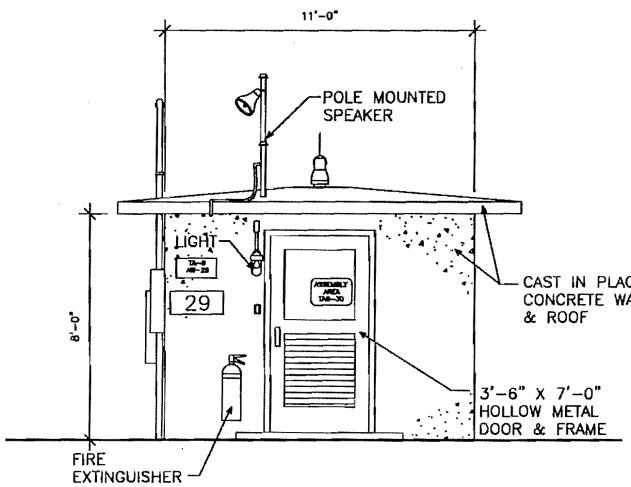
UTILITY BUILDING
FLOOR PLAN

SEC. CLASSIFICATION: CLASS: U
REVIEWER: [illegible]
DATE: 3-C-83

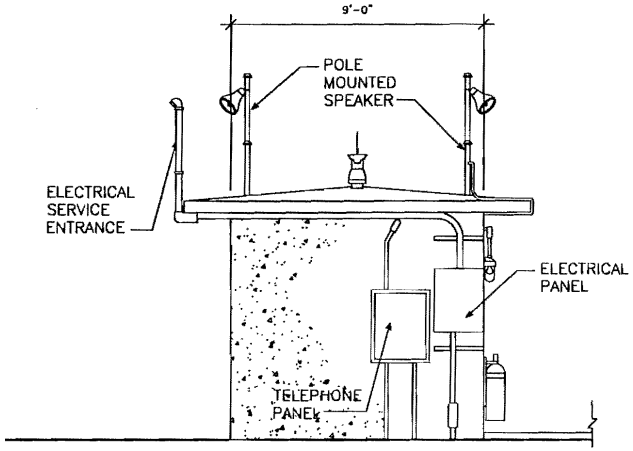
BLDG. AW-29 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	[illegible]	[illegible]

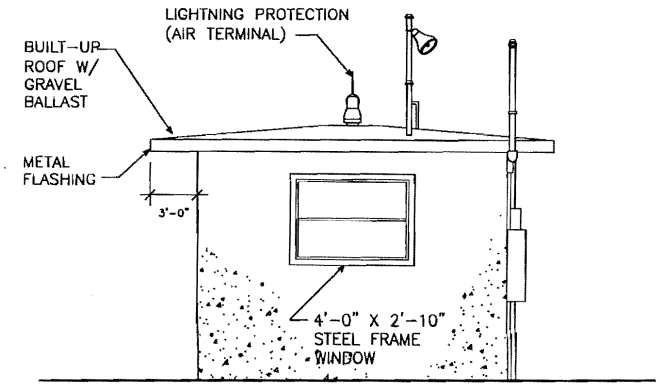
DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	H&N	7-23-64	1 OF 1	ENG-R2627



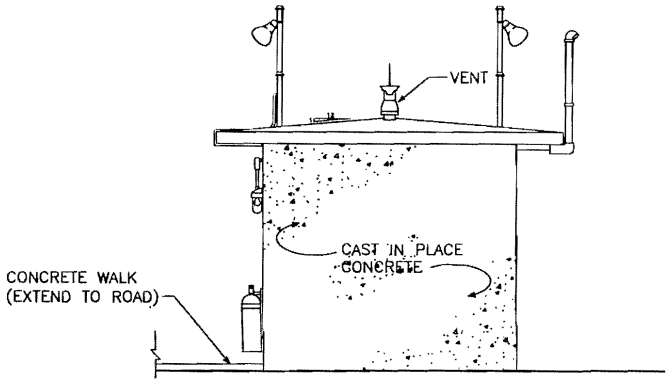
SOUTH-EAST ELEVATION (1 / A-1)
SCALE: 1/2"=1'-0



SOUTH-WEST ELEVATION (2 / A-1)
SCALE: 1/2"=1'-0



NORTH-WEST ELEVATION (3 / A-1)
SCALE: 1/2"=1'-0



NORTH-EAST ELEVATION (4 / A-1)
SCALE: 1/2"=1'-0

COLD WAR ERA BUILDINGS
HISTORIC CONTEXT

DRAWN	K. HONG
DESIGN	—
CHECKED	K. FOWERY
DATE	JUL 06

TA-8-29 UTILITY BUILDING
SUBMITTED APPROVED FOR RELEASE

Los Alamos NATIONAL LABORATORY
PO Box 1663 Los Alamos, New Mexico 87545

SHEET A-1
1 OF 1

CLASSIFICATION U REVIEWER DATE

LANL TA- Building # 08-0030

Camera 984242

Frame #s DCP_2467 through DCP_2470

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name M.A.S.H. Research Lab UTMs easting 378001 northing 3969190 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function M.A.S.H. Research Lab Original Use/ Function M.A.S.H. Research Lab

Date (estimated) Date (actual) 1950 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☑ Wood Frame ☐ CMU ☐ Reinforced Concrete ☐

Other Type of Construction # of Stories 1

Foundation Concrete Slab

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☐ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior Aluminum panel construction.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Equipment includes lights, signage, and a fire extinguisher.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition Concrete apron

Exterior Features-Addition Shed roof addition on south and west sides

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type conical

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials The building has a very low-pitched conical roof constructed with steel roof trusses and purlins. The roof is finished with 4-ply tar and gravel roofing with 2 in. metal edge gypsum planks.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning

# of Each Window Type/ Comments Two-light aluminum frame awning style windows on south, west and north sides.

Glass Type Clear ☐ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern: Two-light

Door Type

Personnel Door Types — Exterior: Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐ Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐ Louvered ☐ Painted ☑

Personnel Door Types — Interior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐ Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐ Louvered ☐ Painted ☐

Equipment Door Types — Exterior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐ Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐ Louvered ☐ Painted ☐

Equipment Door Types — Interior: Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐ Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐ Louvered ☐ Painted ☐

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐ CMU- Interior ☐ Plywood ☐ Other- Interior ☐ In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Minor

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Fair

Significance None

Eligible Under Criterion A ☐ B ☐ C ☐ D ☐ Not Eligible ☑

DOE Themes

Nuclear Weapon Components and Assembly ☐

Nuclear Weapon Design and Testing ☑

Nuclear Propulsion ☐

Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐

Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

The building was built for 60-cobalt work. In 1991 it was converted into the Macro Statistical Hydrodynamics Research (MASH) laboratory.

Architectural Features (elevations)

A one-story rectangular-in-plan building measuring 25 ft. by 25 ft 3 in. with and interior useable floor space of 576 ft2. The building is constructed with a poured concrete foundation and floor slab, 4 in. aluminum battens covered on the interior and exterior with ½ in. "Plymetal" panels. The building has a very low-pitched conical roof constructed with steel roof trusses and purlins. The roof is finished with 4-ply tar and gravel roofing with 2 in. metal edge gypsum planks. The approximate 3-ft-deep eaves are completely enclosed with aluminum panels. The main access into the building is from the east side via a pair of aluminum doors with the left door equipped with a small window. There is an single aluminum door on the south side. A concrete apron has been installed in front of the doors.

Total sq ft 576 net

Architect/ Builder Black & Veatch Consulting Engineers/R.E. McKee

Alterations

A corrugated metal shed roof supported by steel columns was installed on the south and west sides of the building. A new concrete apron was installed under the shed roof.

List of Drawings (Cntrl + Enter for para break)

ENG-C 12475
Sheet 7 of 113
TA-8 (bldgs 84A & 84B) AW-26 & AW-30
TA-8-26 & TA-8-30
Structural Layout
Floor Plan, Elevation & Section
September 8, 1949

ENG-R 2628
Sheet 1 of 1
TA-8 Bldg AW-30
TA-8-30
Laboratory Building
Floor Plan
August 26, 1983



TA-8-30 Southeast Elevation



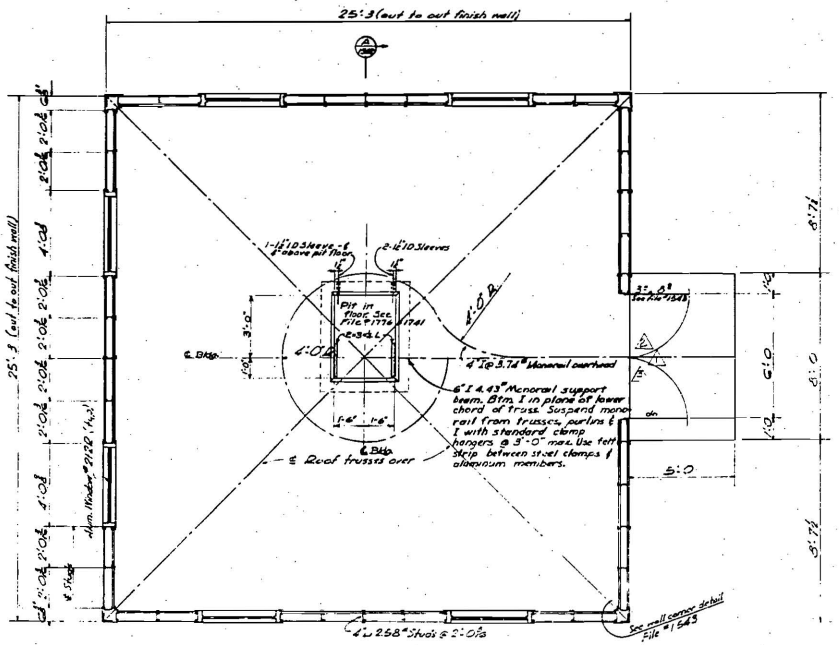
TA-8-30 Southwest Elevation



TA-8-30 Northwest Elevation



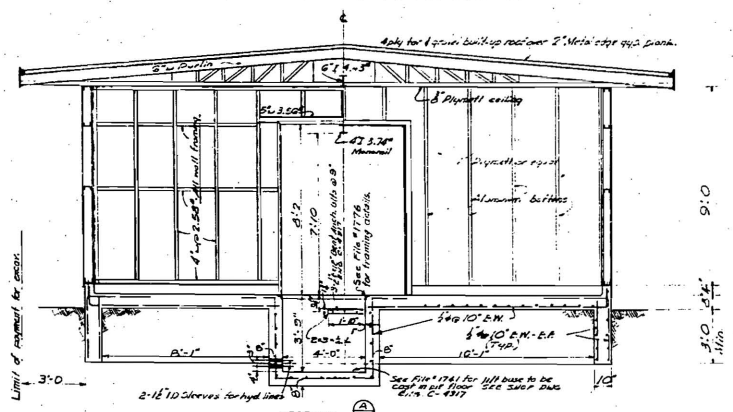
TA-8-30 Northeast Elevation



FLOOR PLAN

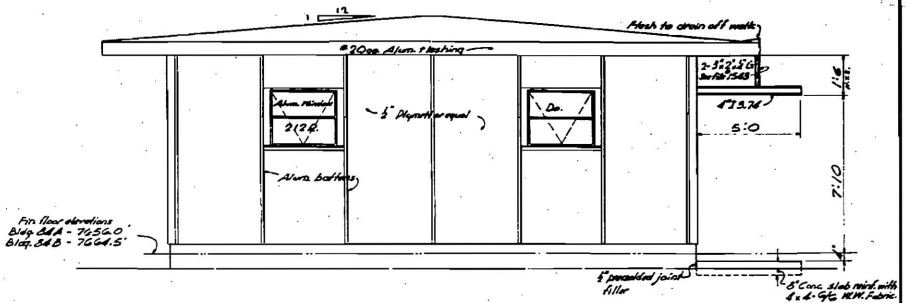
(See Plot Plan for bldg. orientation)

FOR ANCHOR BOLT SPACING SEE SHOP DWG ENG C-4317



SECTION

See Dwg. C-4326



SIDE ELEVATION

General Notes

1. All concrete shall be type A & shall develop a strength of 3000 psi @ 28 days.
2. Mix 5 cement disperser with each sack of cement used.
3. Reinf. shall be intermediate grade deformed bars.
4. Bond reinf. stl. by welding 3'-0 intervals in each direction. Bond all other metal to reinf. stl. by direct weld or suitable metal strap.
5. Connect reinforcing to grounding system with #6 bare stranded copper cable.
6. All foundations shall be carried to solid bearing with a min. excavation of 12" into rock. (Tuff)
7. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to size.
8. Floors shall be given a smooth, monolithic cement finish.
9. Structural members shall be Aluminum Alloy 6S-T6 - All connections welded.
10. Bolts, nuts & clips for attachment to Aluminum shall be Aluminum unless otherwise noted.
11. ¼" & ⅛" wall & ceiling panels shall be Type UVU & 1" wall panels shall be Type USU Plymetl as m'f'd by Haskelite M'fg Corp., Grand Rapids, Mich., or equal, with 24 Ga. 52S Alum. covering.
12. Payment for extra fdtn. excavation as provided for in special conditions shall be limited to 3'-0" outside conc. walls or pads, or neat face of footings, whichever is greater.

REFERENCE DRAWINGS

	File #
Plot Plan	1444
General layout	1413
Electrical layout	1529
Lightning protection & grounding details	1532
Heating layout	1574
P.J. Installation Hydraulic Lift	1741
Cover Carrier & Frame - Hydraulic Lift	1776
WINDOWS & FRAMING SEE SHOP DWGS. ENG C- 4238 & 4287	

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT(29-1)-46 ++

SUBMITTED C.A. Hancock Date

RECOMMENDED [illegible] Date

APPROVED [illegible] Date

SEE ALSO FILE # 1543 B.V. SEC. NO. FG

Mark	By	Date	Remarks
A	AS-BUILT	FSC	REVISED TO AS-BUILT STATUS OF 3/31/52
B	AS-BUILT	TMC	ANY REVISIONS REQUIRED TO AS-BUILT STATUS
1		JH	CONTRACT CHGS. AS SHOWN
C	MOD #10	WBH	ELIMINATE METAL SIDING & ROOFING
2		WSH	KAYLESS TITLE
3	MOD 15 C.O. 32	WBH	
4	MOD 18	WSH	SKUTTLE DOOR, CLOSET & GAS ALARM
5	MOD 19	WBH	INSTALL FOLEY'S DOOR

STRUCTURAL LAYOUT BLDGS. (84 & 84B)

FLOOR PLAN, ELEVATION & SECTION

PROJECT B

LOS ALAMOS T.A. - 8 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

FILE NO. 1542

DRAWN K. ADAMS

CHECKED J. D. O.

APPROVED [illegible]

DATE 9-8-49

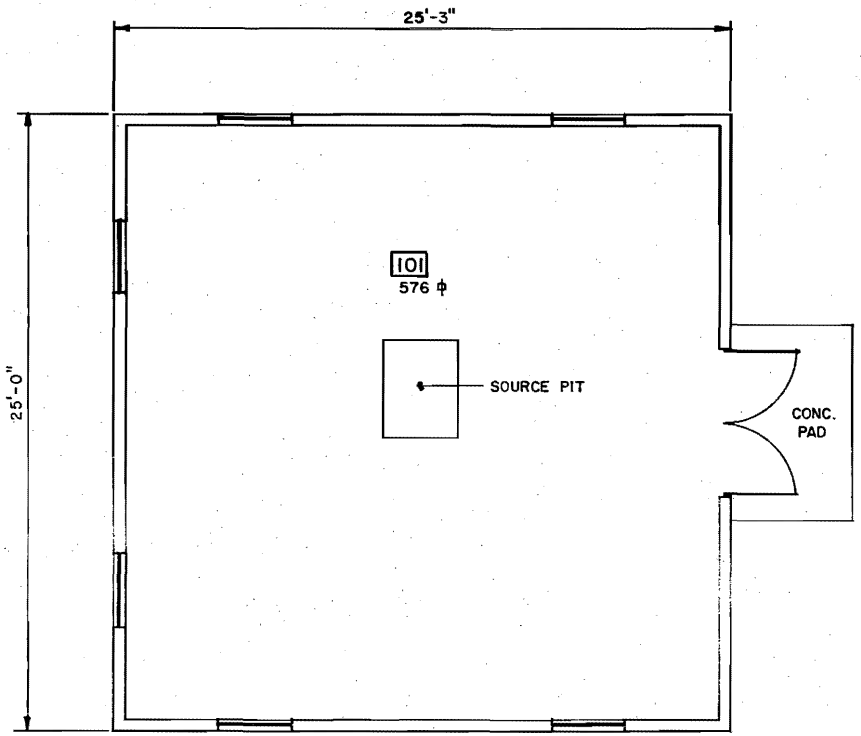
SHEET 17 OF 113

10/31/52 James L. Black

FOR OFFICIAL USE ONLY

DWG. NO. ENG-C 12475

SFA-FG-17



(3/16"=1'-0")

0' 5' 10'

GRAPHIC SCALE

BLDG. TOTAL 576 S.F.

MF

REV.	DATE	REVISION	BY	CKD.	APP.
1	8-26-83	REDRAWN & REVISED TO STATUS OF 8-26-83	H&N	EF	PP

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

LABORATORY BUILDING FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER Shadduck
DATE 10-14-83

BLDG. AW-30 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dan Rigg	W. T. Eb Hoi

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	Humble H&N	8-26-83	1 OF 1	ENG-R 2628

NEW MEXICO HISTORIC BUILDING INVENTORY FORM

LA#

building threatened?	surveyed	County	ID no.
Yes	date **2/9/99** by **K. L. M. Garcia**	**Los Alamos**	**TA-8-31**

field map number	UTM reference:
LANL Orthotopo **Sheet 1**	easting **378183** northing **3969352** zone **13**

location description	city/town
Technical Area (TA) 8, Anchor Site West	**Los Alamos** land grant/reservation **n/a**

building name	legal description **USGS Frijoles 7.5 Series**
TA-8-31, Original name **AW-31, Anchor West -31 (Project B, Building 86A)**	tnsp **19N** range **6E** sec **19** **SW¼ NE¼ SW¼**

film rolls: **236 & 1048** by nos. **ESH-20 Photos on file at ESH-20**	Negative nos. **Roll 236 Frame 7; Roll 1048 Frames 14A, 15A, & 17A Also digital photos on file with ESH-20 by building number**	Location of neg. **LANL, ESH-20**	date of construction _____ estimate **1950** actual source **Facilities Division Engineering 9 (F-9) records (LANL)**

Style	Foundation material	Use	Condition
Reinforced concrete magazine with flat roof (See below for more information)	**Concrete slab** wall material/surface **Reinforced concrete**	Present residential ✔ other **Abandoned** historic residential ✔ other **Magazine**	___ excellent **X** fair to **X** good ___deteriorating

Degree of remodeling	Surroundings	Relationship to surroundings	district potential
___ minor ___ moderate ___major describe: **No apparent modifications**	**Developed** **Laboratory** **Technical Area 8**	**X** similar ___ not similar	___ yes **X** no

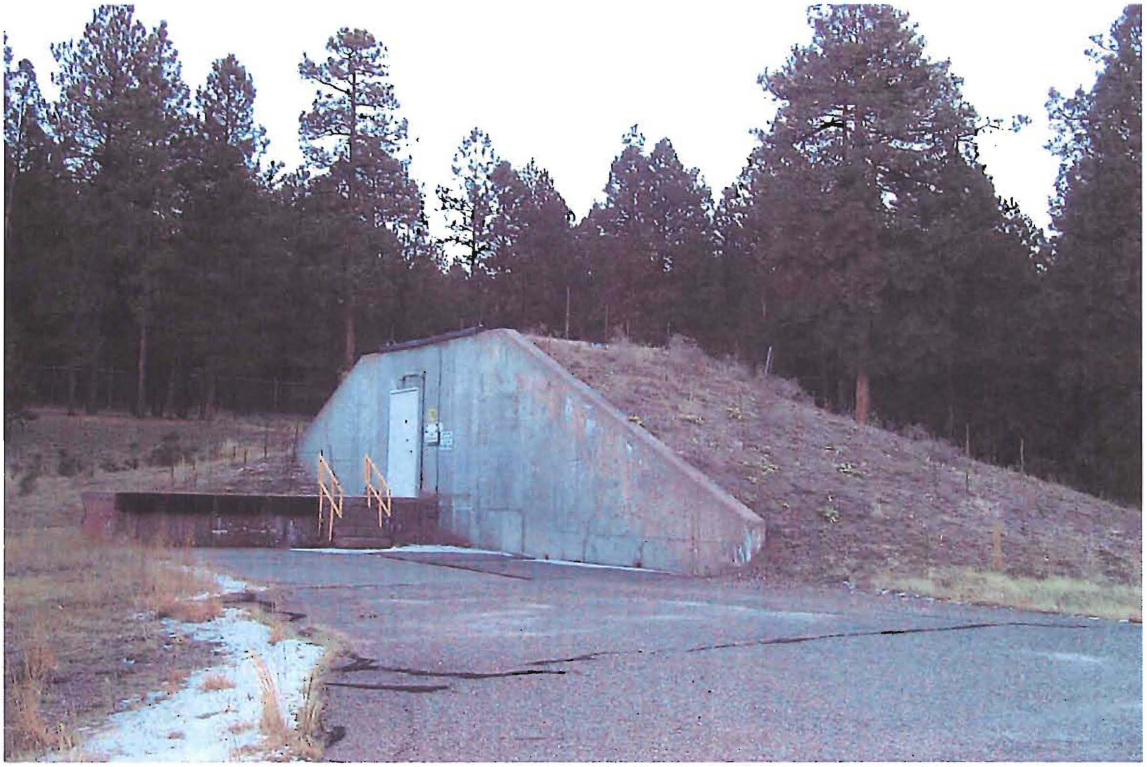
Significance ___Eligible __X__of interest ____none If not eligible, Why? **Building TA-8-31 magazine for High Explosives.** **This magazine was built in 1950, during the early Cold War years at Los Alamos, at the New Anchor West location and is not associated with the testing of the Little Boy weapon during World War II.** **This TA was the original site of the Manhattan Project Gun-Firing Site (Old Anchor West) where prototypes of the Little Boy weapon (a gun-assembled nuclear weapon) were tested in 1945. "Gun testing was not resumed after the War. The gun weapon, although reliable, required large quantities of enriched uranium, and the program was abandoned in favor of the development of implosion weapons" (Los Alamos National Laboratory 1993:2-10).** **In 1949-1950 new construction began at TA-8 at the New Anchor West location. The new buildings were constructed to house the Group X-1 (later GMX-1), which had been developing x-ray techniques at another location. At this same time many of the original buildings were removed and one building was relocated within the site and later removed. These new buildings were for office space, photographic-processing labs, and laboratories for various types of x-ray work, some of which involved the use of contained radioactive sources.**	associated buildings? _X_ yes what type? **A magazine, a vault, and a guard house** if inventoried, list ID nos. **TA-8-32 is an identical magazine, TA-8-27 is a vault, and TA-8-28 is a guard house**	Photos and plan drawings are on following pages **ENG-C 12479 (sheet 21 of 113)** **Project B, TA-8** **Plans and Sections (elevation)** **As Constructed Drawing** **September 8, 1949** **ENG-C 12480 (sheet 22 of 113)** **Project B, TA-8** **Typical Details** **As Constructed Drawing** **September 8, 1949** **ENG-C 12567 (sheet 108 of 113)** **Project B, TA-8** **Door Installation Assembly, ¼" steel door** **As Constructed Drawing** **September 20, 1949** **ENG-C 12568 (sheet 109 of 113)** **Project B, TA-8** **Frame Assembly, ¼" steel door** **As Constructed Drawing** **September 20, 1949** **ENG-C 12569 (sheet 110 of 113)** **Project B, TA-8** **Door Assembly, ¼" steel door** **As Constructed Drawing** **September 20, 1949** **ENG-C 12570 (sheet 111 of 113)** **Project B, TA-8** **Latch Details, ¼" steel door** **As Constructed Drawing** **September 20, 1949** **ENG-C 12571 (sheet 112 of 113)** **Project B, TA-8** **Door, Cover & Insulation Assembly, ¼" steel door** **As Constructed Drawing** **September 20, 1949** **ENG –C 12572 (sheet 113 of 113)** **Project B, TA-8** **Lock Details, ¼" steel door** **As Constructed Drawing** **September 20, 1949** **ENG – R2629** **Magazine AW-31, TA-8** **Floor Plan** **October 14, 1983** Size: **168 ft²**

Architectural features:	Comments: **There is no indication that high explosives (HE) contamination ever occurred in this building (Los Alamos National Laboratory 1990 and 1993).**
This building is a reinforced concrete magazine. It is roughly rectangular and has a flat roof. **Interior wall forms are of plywood. The reinforced concrete walls are smooth finished. The interior walls, ceiling and all exposed metal are painted with oil base lead paint. The ceiling has a center bar joist. Floor slabs have a non-sparking conductive finish.** **Exterior walls were left rough. Those surfaces against the earthen fill are waterproofed with 3 piles felt and coal tar pitch.** **The magazine has a ¼" steel door on the north side of the structure. There is a concrete dock with stairs at the front of the magazine on the northeast side.**	

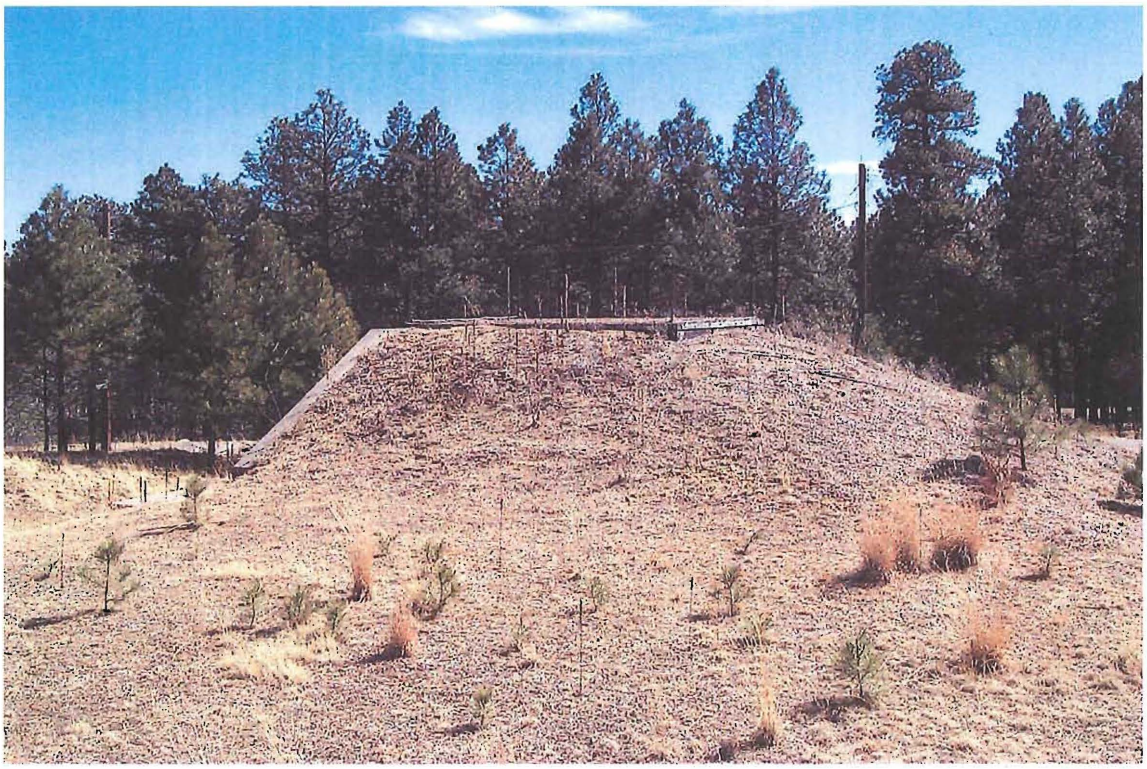
Los Alamos National Laboratory

1990 *Solid Waste Management Units Report, Los Alamos National Laboratory Environmental Restoration*, LA-UR-90-3400, Los Alamos National Laboratory, Los Alamos, New Mexico.

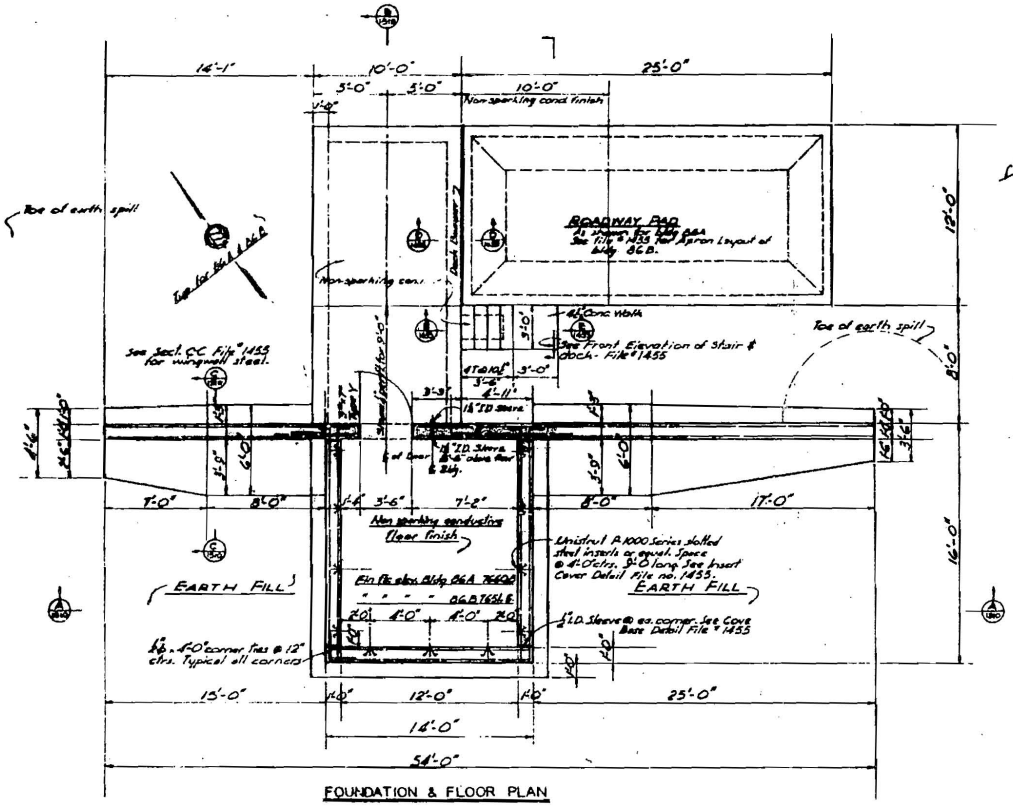
1993 *RFI Work Plan for Operable Unit 1157: Environmental Restoration Program.* LA-UR-93-1230, Los Alamos National Laboratory, Los Alamos, New Mexico.

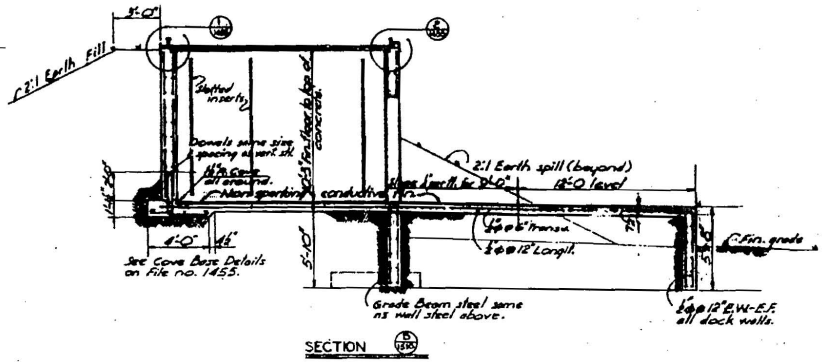


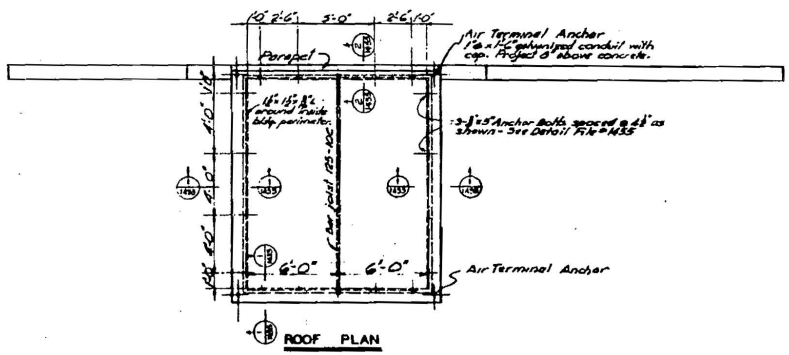
TA-8-31 East and North Sides

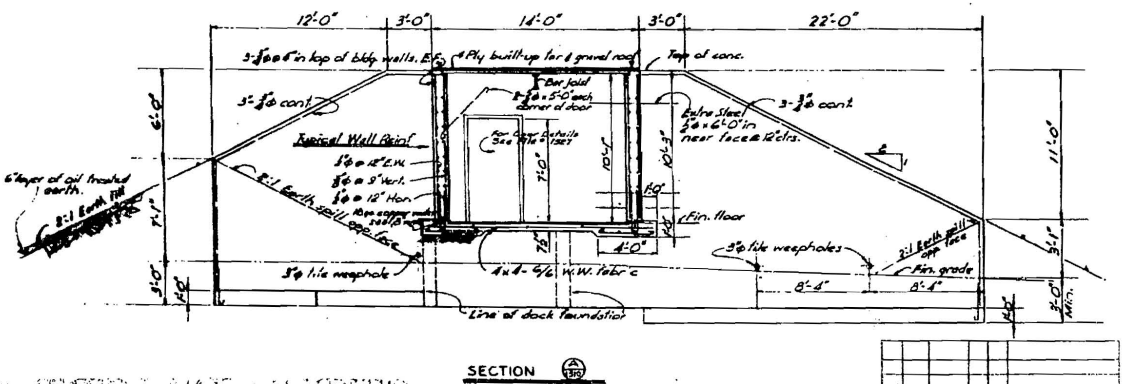


TA-8-31 West and South Sides









REFERENCE DRAWINGS

Plot Plan	File no. 1448
General Layout	1419
Typical Details	1455
Door Assembly	1527
Lightning Protection & Grounding Details	1532
Electrical Layout	1524
STEEL DRAWINGS	ENG C-41188

NOTES

1. All concrete shall be Type A & shall develop a strength of 3000 psi @ 28 days.
2. Min. 1½" clr. cement dispersion with each such of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Weld all reinf. bars @ 5'-0" intervals in each direction for bond.
5. Bond all other metal to reinf. steel by direct weld or suitable metal straps.
6. Connect reinf. to grounding system with #6 b/c bare stranded copper cable.
7. Where shown on plans, steel shall be given a red colored non-sparking conductive finish. Slabs shall be placed in two courses. Top course 1½" thick including conductive finish.
8. Interior wall forms shall be of plywood and walls shall be finished smooth; Exterior walls may be left rough.
9. Interior walls, ceiling & all exposed metal shall be given 3 coats lead & oil paint.
10. Exterior building walls except fill, except wingwalls, shall be waterproofed with 3 mopes felt & coal tar pitch.
11. All foundations shall be carried to solid bearing with a min. embedment of 8" into Earth.
12. Foundation walls 6" below fin. grade may be poured without forming provided trenches are cut to sizes shown.
13. Fill shall be carried up each side of wingwalls simultaneously.
14. A 6" compacted surface of oil treated earth shall be applied over earth fill above original ground.
15. Payment for extra foundation excavation as provided in special conditions shall be limited to 3'-0" outside conc. walls or cols. or neat face of footing whichever is greater.

See also, File no. 1455

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACTOR [illegible]
SUBMITTED
RECOMMENDED
APPROVED

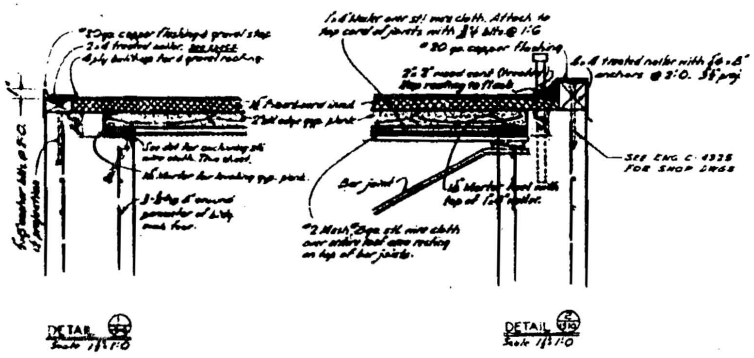
NO	DATE	STATUS	BY	CK	REVISIONS
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2	12/2/48	Mod. Struct.	TRS		
3	10-20-48		JLB		
4	9-8-48				

STRUCTURAL LAYOUT BLDGS NO (86A) (86B) PLANS & SECTIONS — File No. 1510
PROJECT B
TA-8
LOS ALAMOS NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS
Scale: ¼"=1'-0" — Date 9-8-48 — 21 — 113

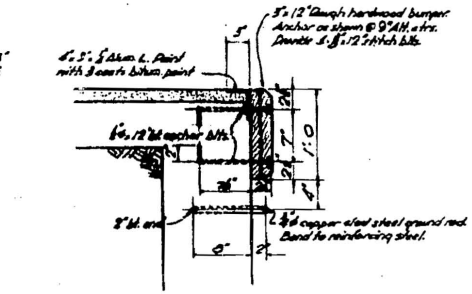
VERIFIED AS CONSTRUCTED

ENG C 12479 SFH-FO-31

TA-8-31
Plans and Sections (elevation)
As Constructed Drawing
September 8, 1949



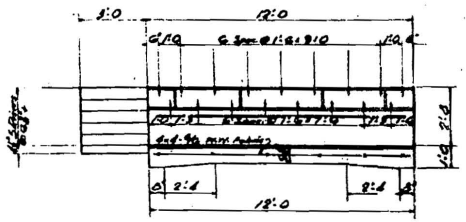
DETAIL
Scale 1½"=1'-0"



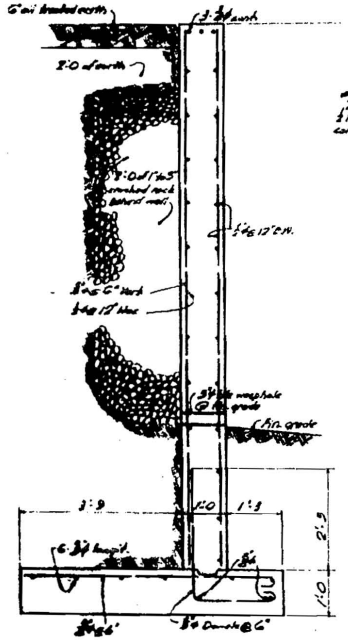
DETAIL
Scale 1½"=1'-0"

SECTION
Scale 1½"=1'-0"

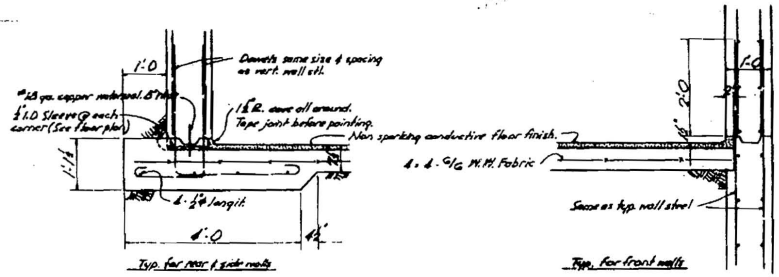
SEE ENG. C-4326 & 4317 FOR SHOP DWGS.



FRONT ELEVATION OF STAIR AND DOCK
Scale ¼"=1'-0"



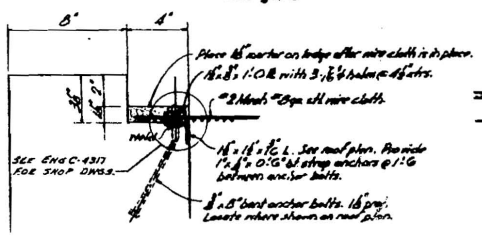
SECTION
Scale ½"=1'-0"



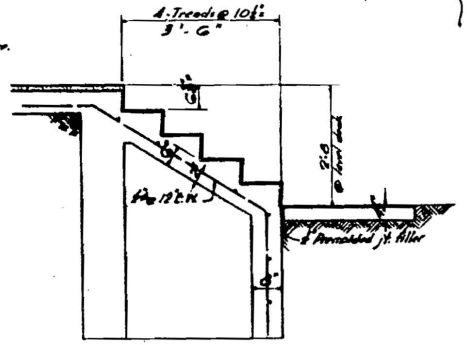
Typ. for rear & side walls

Typ. for front walls

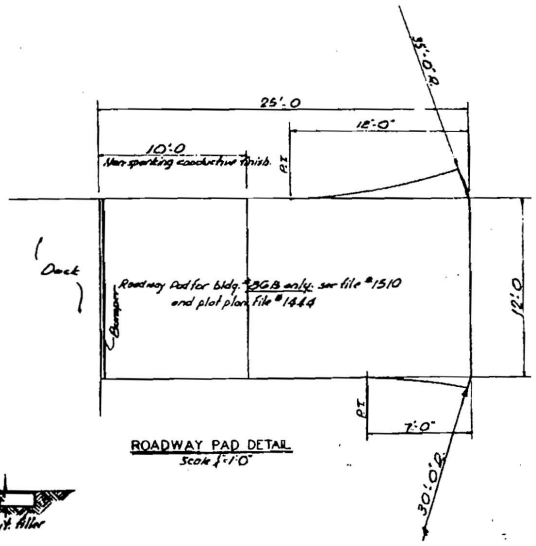
COVE BASE DETAILS
Scale ½"=1'-0"



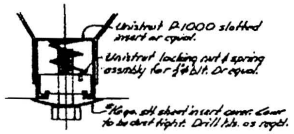
DETAIL OF ANCHORING STEEL WIRE CLOTH
Scale 3"=1'-0"



SECTION
Scale ½"=1'-0"



ROADWAY PAD DETAIL
Scale ¼"=1'-0"



INSERT COVER DETAIL
No Scale

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)-1014
SUBMITTED C.A. Lynch
RECOMMENDED
APPROVED

VERIFIED UNCLASSIFIED
Susan Roth

Scale - As Noted See also File #1510

STRUCTURAL LAYOUT BLDGS (66A,66B,66C)
TYPICAL DETAILS

PROJECT B
LOS ALAMOS TA-8 NEW MEXICO

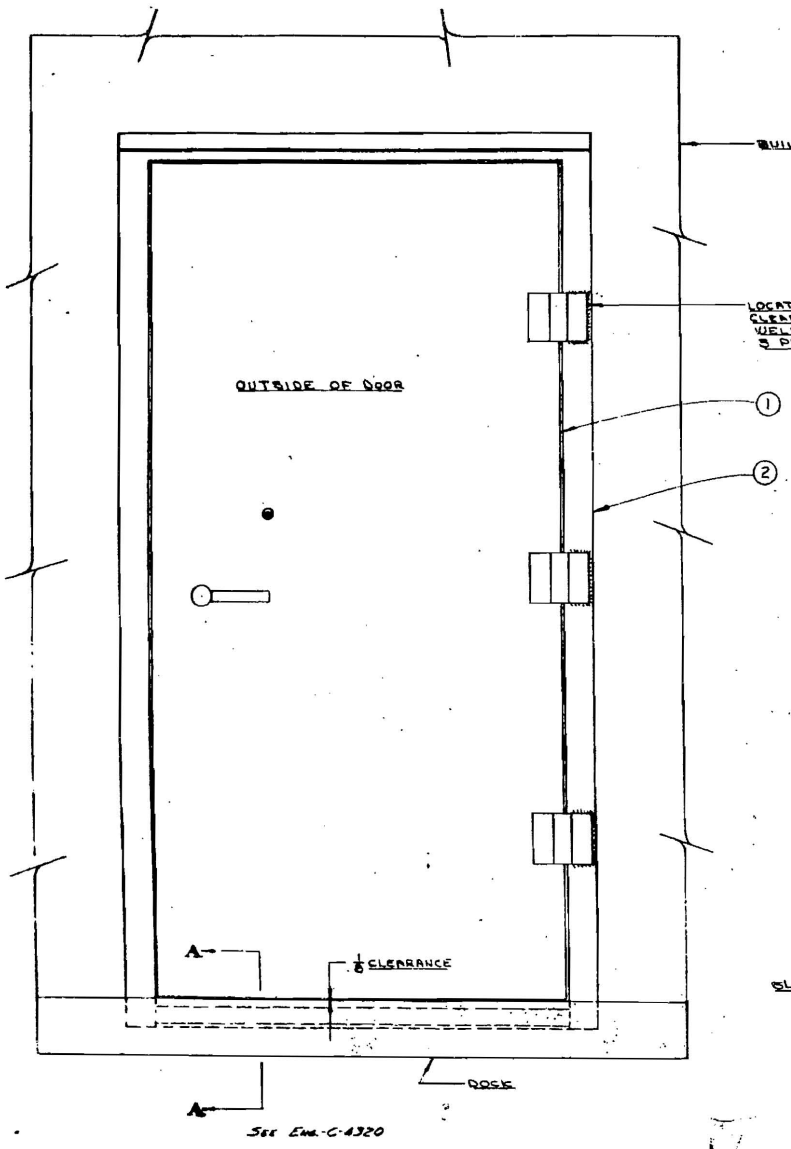
BLACK & VEATCH — CONSULTING ENGINEERS

FILE NO. 1455

9-8-49

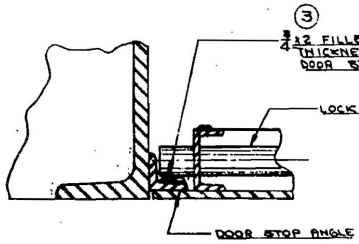
12480

TA-8-31
Typical Details
As Constructed Drawing
September 8, 1949



BILL OF MATERIAL		
ITEM NO.	NO OFFSS.	DESCRIPTION
1	1	DOOR ASSEMBLY - SEE DWG. 1527
2	1	FRAME ASSEMBLY - SEE DWG. 1535
3	8	FILLER PLATE - SEE DETAIL

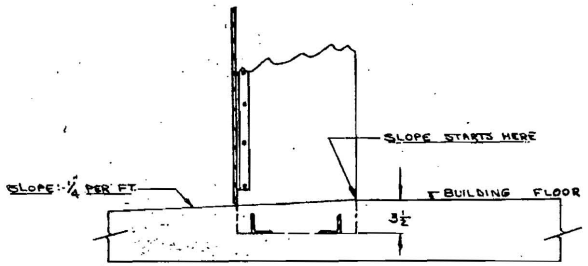
COMPLETE LIST OF DRAWING - DWG. NO. 1515, 1526, 1527, 1535, 1536, 1545



FILLER PLATE INSTALLATION
SCALE - HALF SIZE

VERIFIED UNCLASSIFIED
Susan Rolph

REFERENCE DRAWING
STRUCTURAL LAYOUT BLDGS. 8CA & 8CB - DWG. 1510



SECTION - A-A

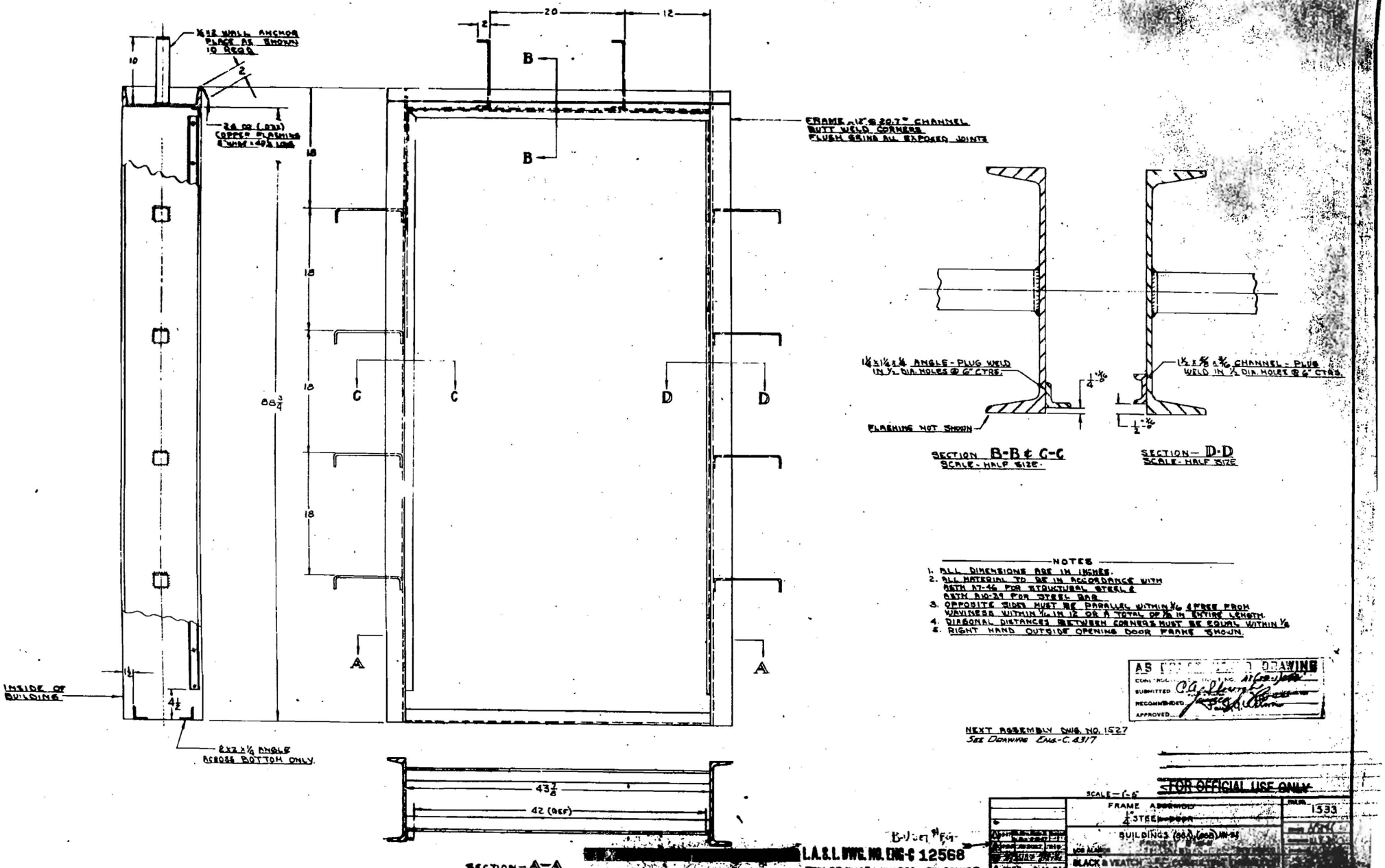
AS CONSTRUCTED DRAWING
CONSTRUCTION SUPERINTENDENT
SUBMITTED
RECOMMENDED
APPROVED

FOR OFFICIAL USE ONLY

SCALE - 1" =	DOOR INSTALLATION ASSEMBLY	1527
	STEEL DOOR	
	BUILDINGS 8CA & 8CB AW-32 PROJECT 8	
	BLACK & VEATCH CONSULTING ENGINEERS	

U.S.A.E.C. DWG. NO. ENG. & C. 42567

TA-8-31
Door Installation Assembly
As Constructed Drawing
September 20, 1949



NOTES

1. ALL DIMENSIONS ARE IN INCHES.
2. ALL MATERIAL TO BE IN ACCORDANCE WITH ASTM A7-46 FOR STRUCTURAL STEEL & ASTM A10-39 FOR STEEL BAR.
3. OPPOSITE SIDES MUST BE PARALLEL WITHIN 1/16 & FREE FROM WAVINESS WITHIN ¼ IN 12 OR A TOTAL OF ⅜ IN ENTIRE LENGTH.
4. DIAGONAL DISTANCES BETWEEN CORNERS MUST BE EQUAL WITHIN ⅛
5. RIGHT HAND OUTSIDE OPENING DOOR FRAME SHOWN.

AS [illegible] DRAWING
CONSTRUCTED
SUBMITTED
RECOMMENDED
APPROVED

NEXT ASSEMBLY DWG. NO. 1527
See Drawing Eng-C. 8317

SCALE—1-6"

FOR OFFICIAL USE ONLY

	FRAME ASSEMBLY	DWG. 1333
	¼" STEEL DOOR	
	BUILDINGS (66'0" Long) MK-24	
	BLACK & WEATH	

Bldg. Set No. Eng-

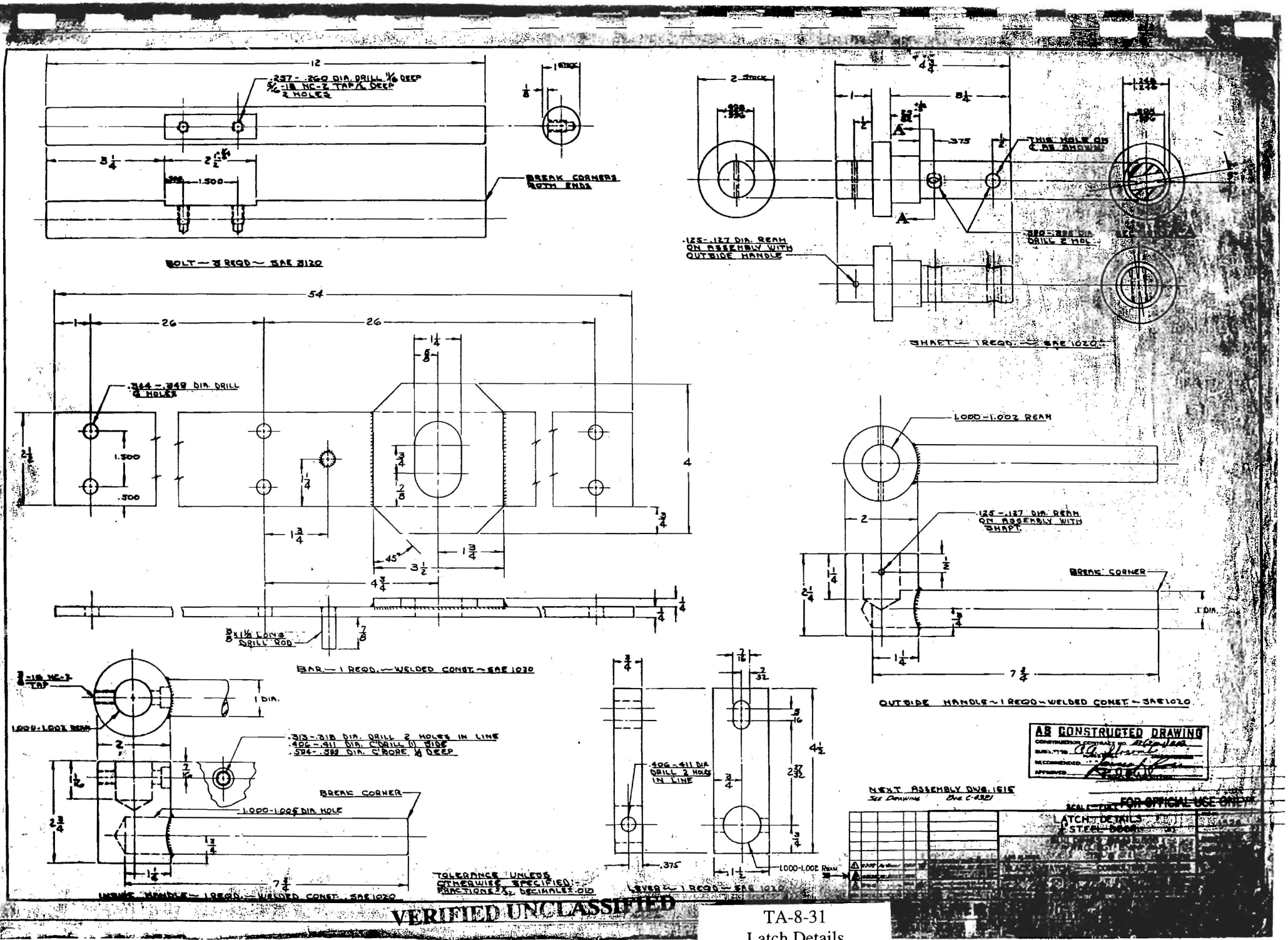
L.A.S.L. DWG. NO. ENG-C 12568

TOLERANCE UNLESS OTHERWISE SPECIFIED ± 1/16

VERIFIED UNCLASSIFIED

Susan Fitch

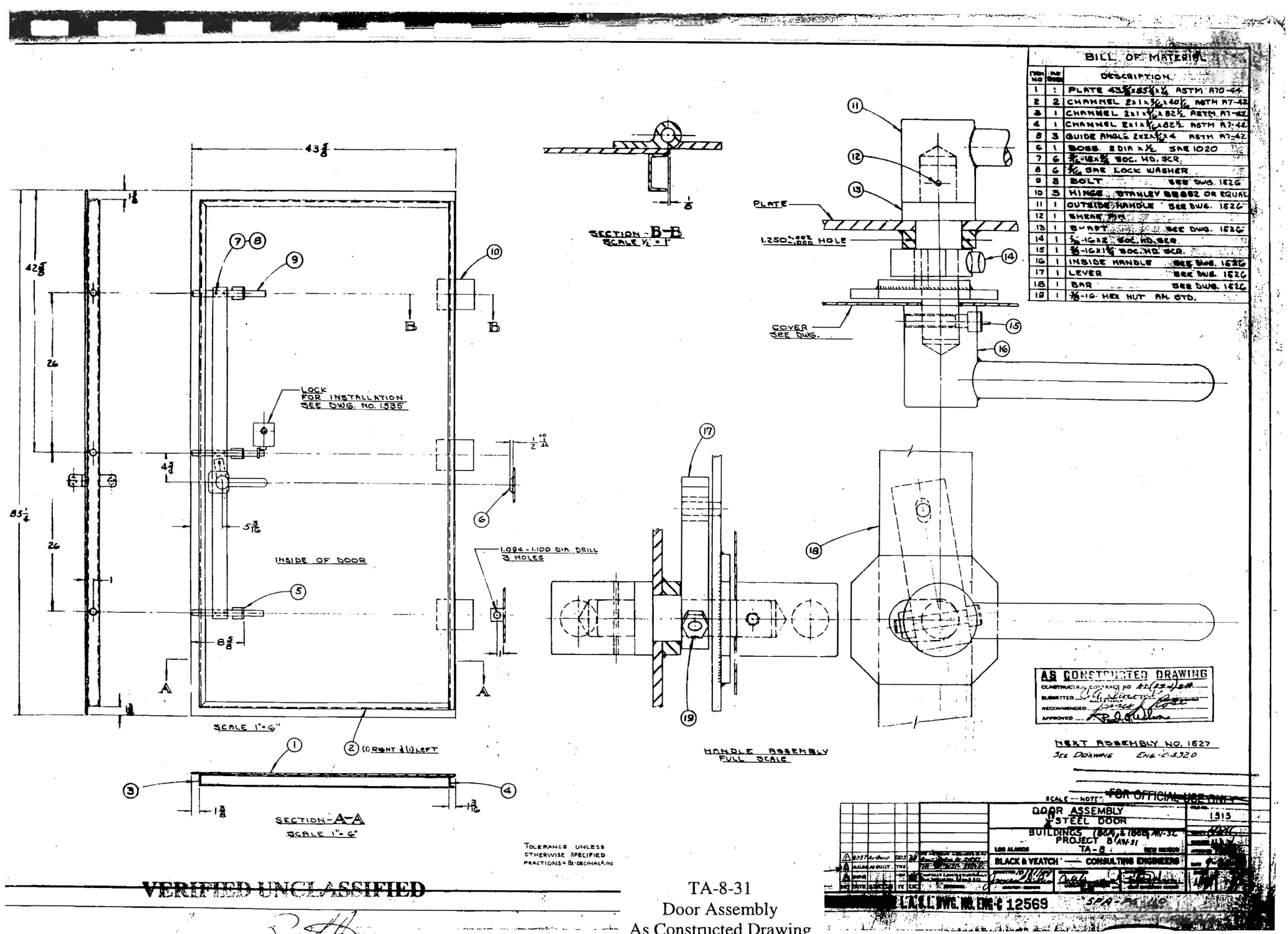
TA-8-31
Frame Assembly
As Constructed Drawing
September 20, 1949



VERIFIED UNCLASSIFIED

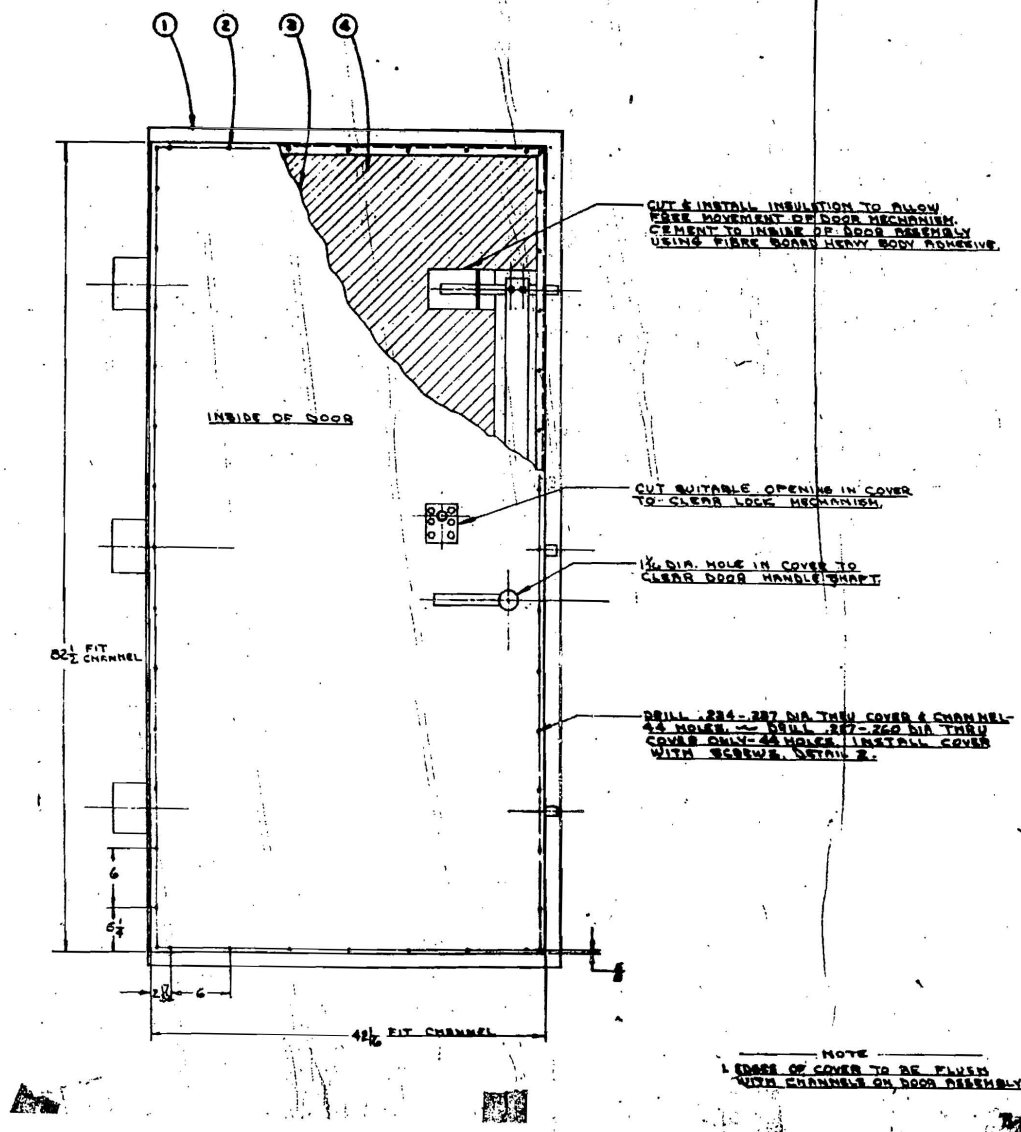
Susan Roth

TA-8-31
Latch Details
As Constructed Drawing
September 20, 1949



VERIFIED UNCLASSIFIED

TA-8-31
Door Assembly
As Constructed Drawing
September 20, 1949



BILL OF MATERIAL

ITEM NO	NO REQ	DESCRIPTION
1	1	DOOR ASSEMBLY SEE DWG 1527
2	44	CAP SCREW, SELF TAPPING HEX HD
3	1	COVER - 11GA. (CRS) WITH NO-34 SHEET
4	1	INSULATION, ½" FIBRE BOARD, CELOTEX OR EQ

VERIFIED UNCLASSIFIED

Susan Roth

NEXT ASSEMBLY DWG. 1527

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO.

SUBMITTED C. A. Thorp

RECOMMENDED James A. Lyon

APPROVED P. Sullivan

FOR OFFICIAL USE ONLY

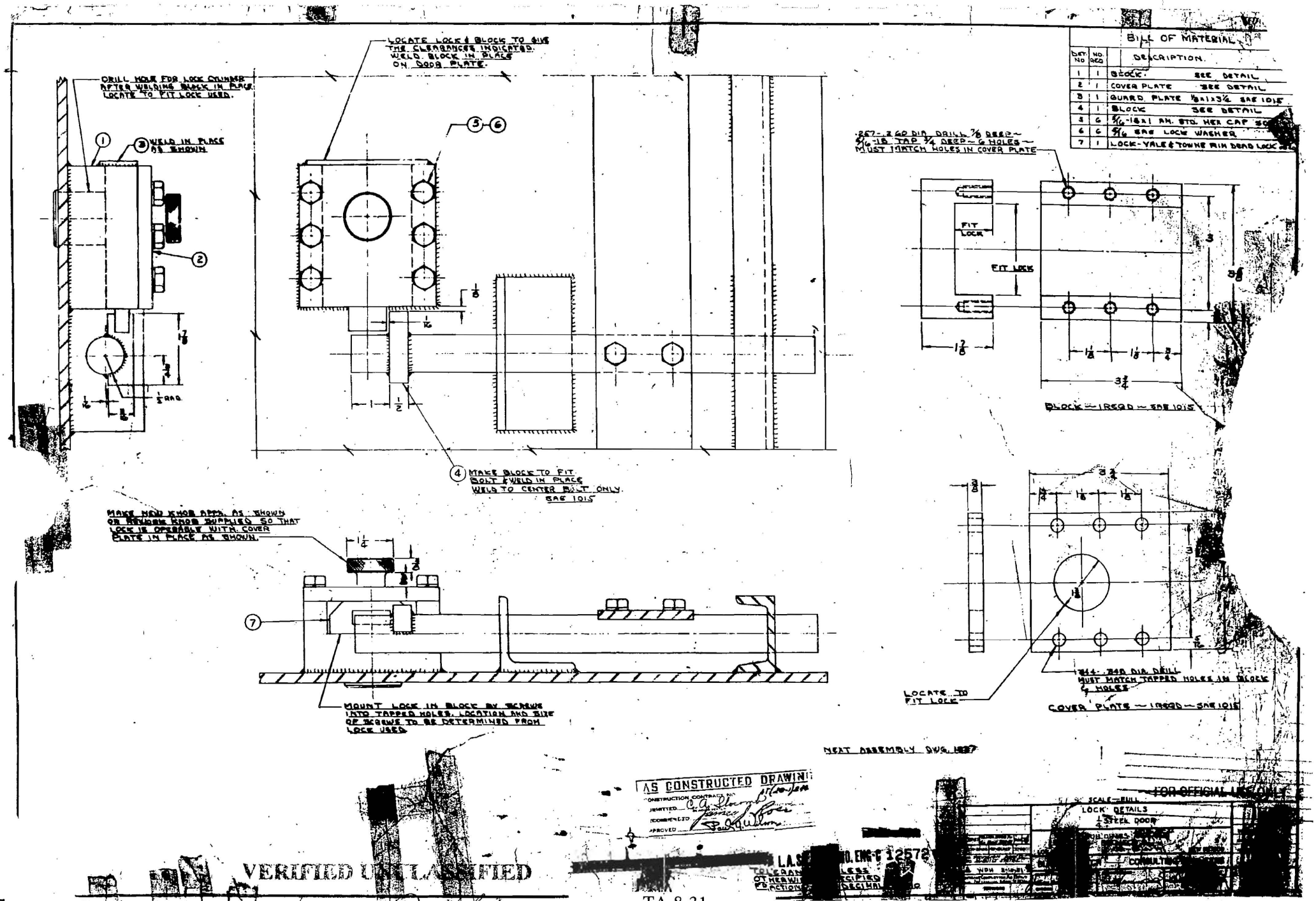
NOTE

1. EDGE OF COVER TO BE FLUSH WITH CHANNELS ON DOOR ASSEMBLY.

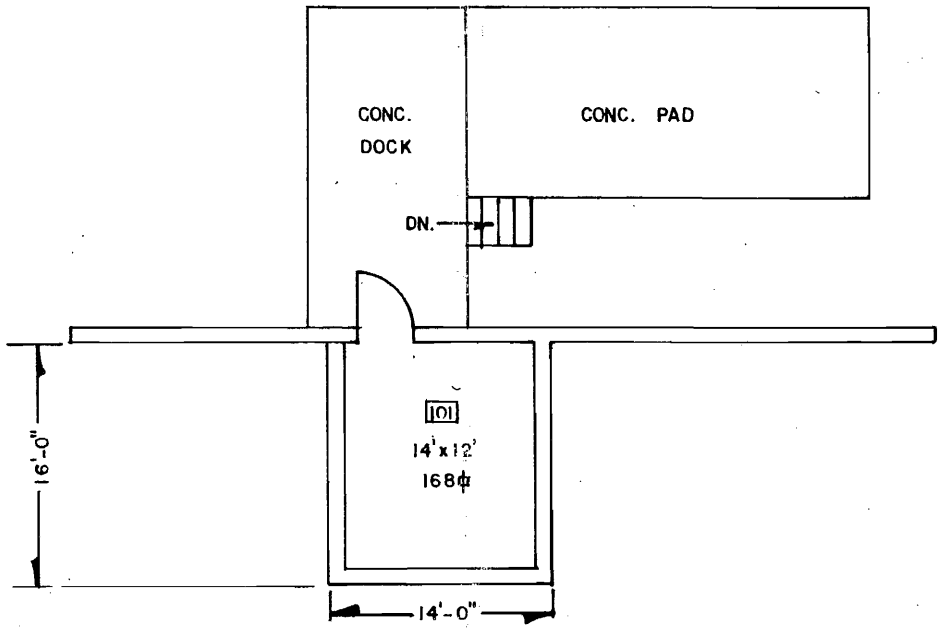
SCALE - FULL

DOOR, COVER & INSULATION ASSEMBLY

TA-8-31
Door, Cover & Insulation Assembly
As Constructed Drawing
September 20, 1949



TA-8-31
Lock Details
As Constructed Drawing
September 20, 1949



1/8" = 1' - 0" 0 5 10 15 20

GRAPHIC SCALE

TA-8-31
Magazine AW-31, TA-8
Floor Plan
October 14, 1983

TOTAL SQ. FT. 168

MF

REV.	DATE	REVISION	BY	CKD.	APP.
1	8-31-83	REVISED TO STATUS OF AUGUST 31, 1983	H&N		

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER Gonzales
DATE 10-14-83

BLDG. AW-31 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dan Roth	W. F. Ehmann

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	Humble H&N	8-31-83	1 OF 1	ENG-R2629

VERIFIED UNCLASSIFIED
Susan Roth

REC'D ..... LOGGED ✓ TO VAULT 11-22-83

LANL TA- Building # 08-0032

Camera 984242

Frame #s DCP_2481 through DCP_2483

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 378227 northing 3969384 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) Date (actual) 1950 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☑

Other Type of Construction # of Stories 1

Foundation Reinforced Concrete

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☑ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Concrete dock and stairs.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Flat

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Concrete with tar and gravel.

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type

# of Each Window Type/ Comments

Glass Type Clear ☐ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern None

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐

Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☑

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: Reinforced metal door.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☑ Good ☐ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Excellent

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐
Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐
Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations)

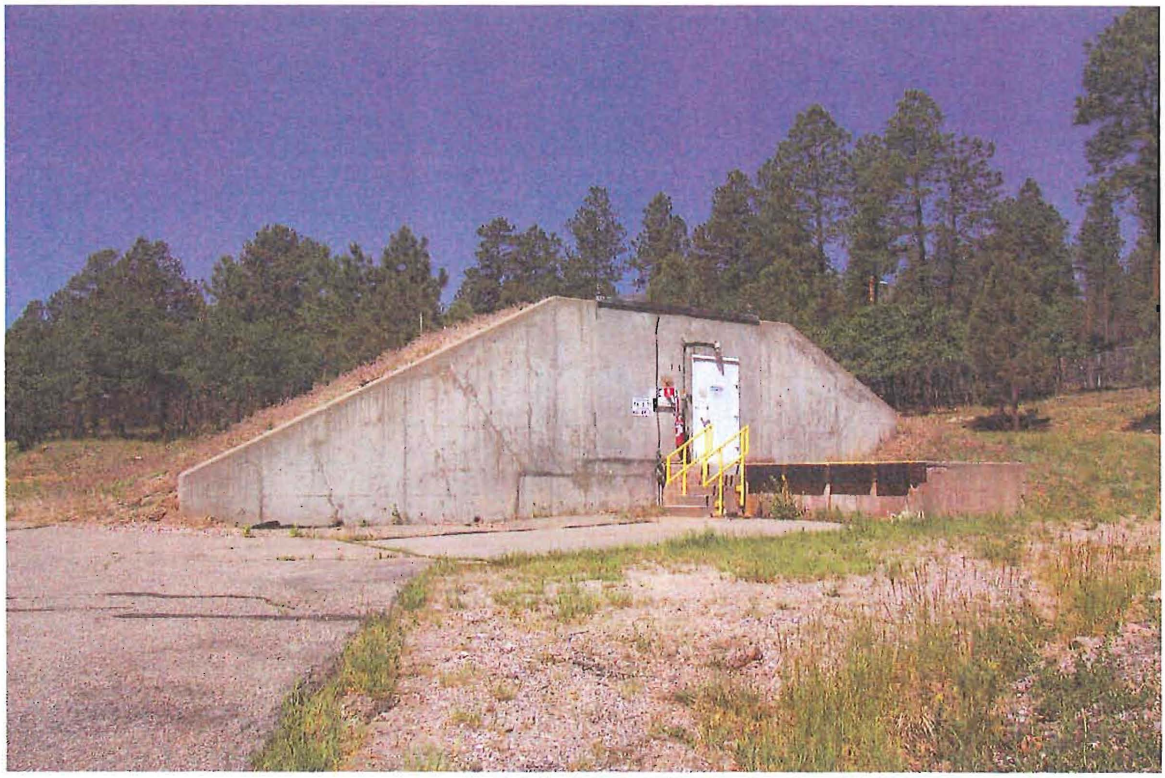
Total sq ft 168 net **Architect/ Builder** Black & Veatch Consulting Engineers/R.E. McKee

Alterations

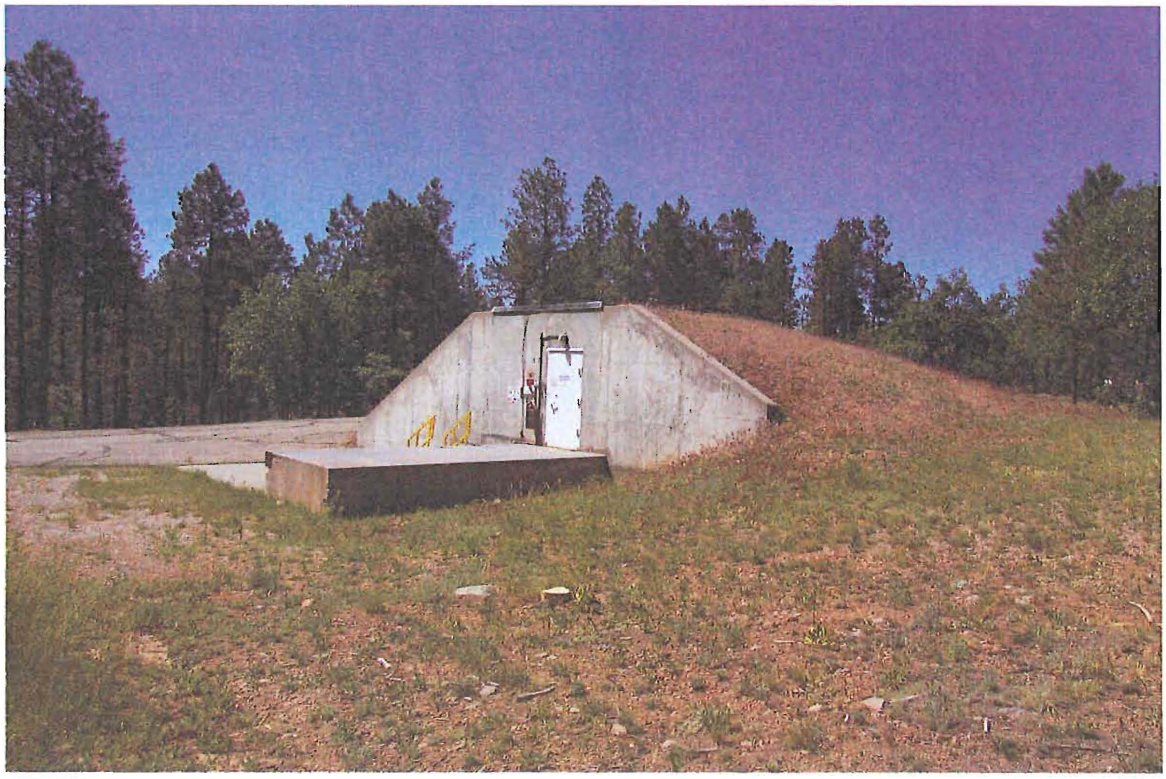
List of Drawings (Cntrl + Enter for para break)

ENG-C 12479
Sheet 21 of 113
TA-8 (Bldgs No. 86A & 86B) AW-31 & AW-32
TA-8-32
Structural Layout
Plans & Sections
September 8, 1949

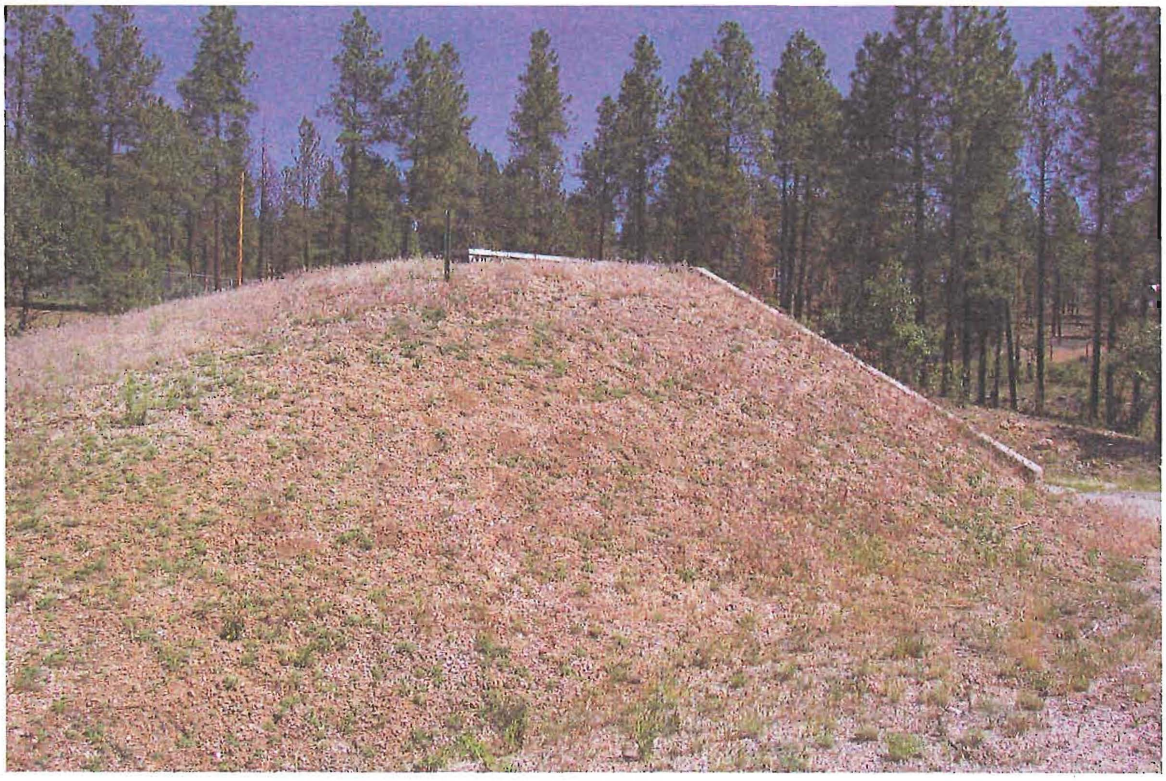
ENG-R 2630
Sheet 1 of 1
TA-8 Bldg. AW-32
TA-8-32
Magazine
Floor Plan
August 31, 1983



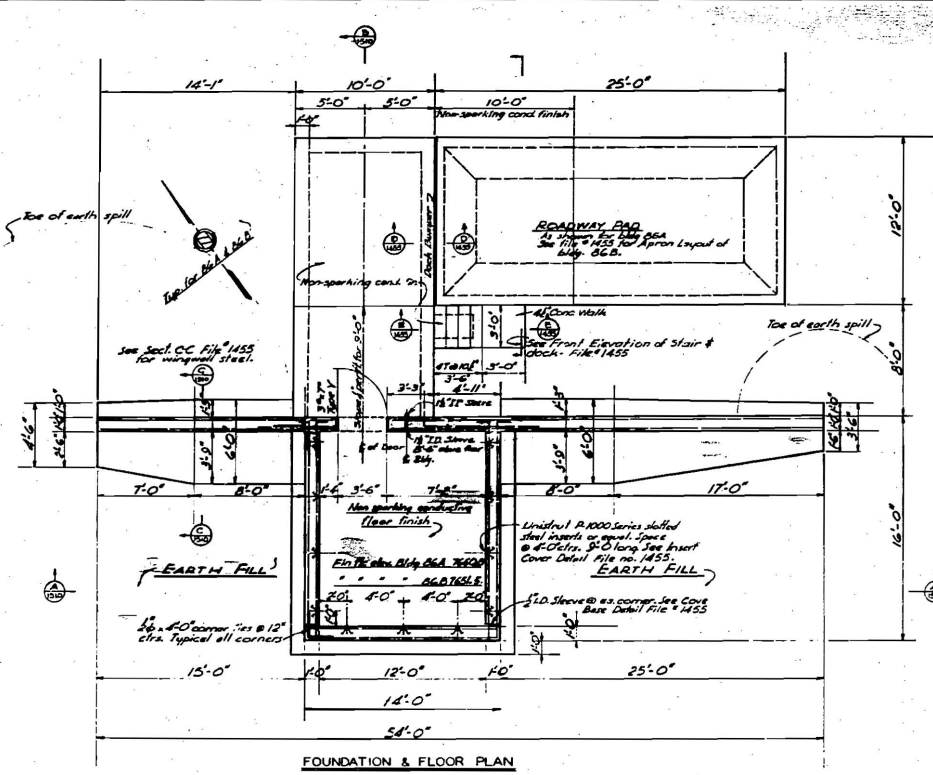
TA-8-32 Northeast Elevation

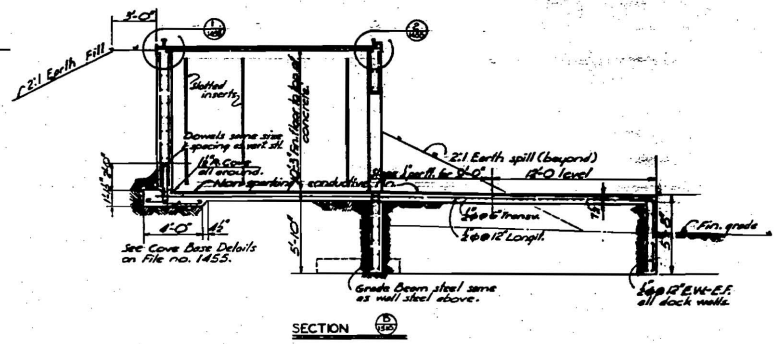


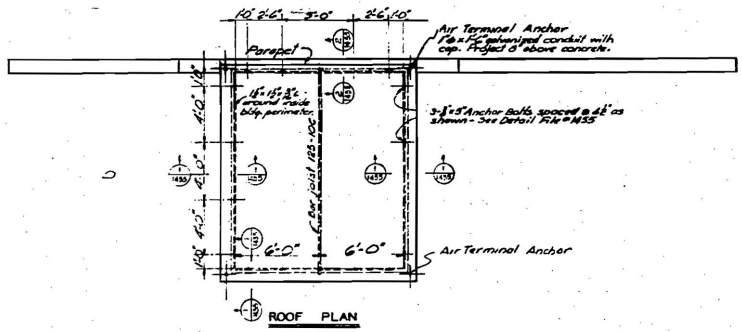
TA-8-32 Northeast and Northwest Elevations

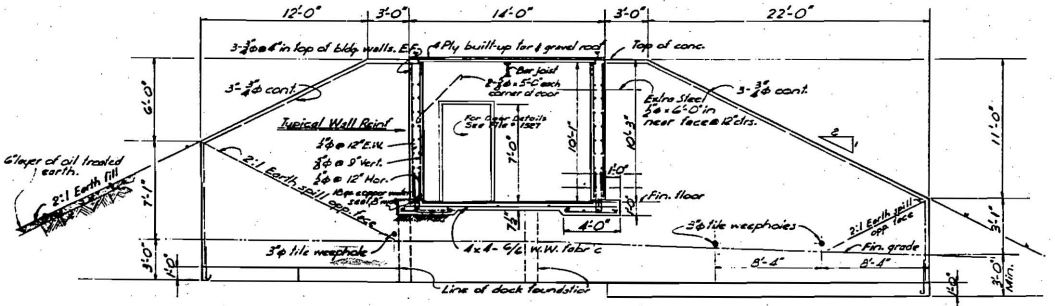


TA-8-32 Southwest and Southeast Elevations









REFERENCE DRWGS.

Plot Plan	File no. 1448
General Layout	1413
Typical Details	1455
Door Assembly	1527
Lightning Protection & Grounding Details	1532
Electrical Layout	1528
STEEL DRAWINGS	ENG C-4188

NOTES

1. All concrete shall be Type A & shall develop a strength of 3000 psi @ 28 days.
2. Min. 5 lb. cement dispersion with each sack of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Weld all reinf. bars @ 5'-0" intervals in each direction for bond.
5. Bond all other metal to reinf. steel by direct weld or suitable metal straps.
6. Connect reinf. to grounding system with #1/0 bare stranded copper cable.
7. Where shown on plans, slabs shall be given a red colored non-sparking conductive finish. Slabs shall be placed in two courses. Top course 1" thick including conductive finish.
8. Interior wall forms shall be of plywood and walls shall be finished smooth; Exterior walls may be left rough.
9. Interior walls, ceiling & all exposed metal shall be given 3 coats lead & oil paint.
10. Exterior building walls against fill, except wingwalls, shall be waterproofed with 3 plies felt & coal tar pitch.
11. All foundations shall be carried to solid bearing with a min. excavation of 8" into Tuff.
12. Foundation walls 6" below fin. grade may be poured without forming provided trenches are cut to sizes shown.
13. Fill shall be carried up each side of wingwalls simultaneously.
14. A 6" compacted surface of oil treated earth shall be applied over earth fill above original ground.
15. Payment for extra foundation excavation as provided in special conditions shall be limited to 3'-0" outside conc. walls or cols. or neat face of footing whichever is greater.

See also, File no. 1455

AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. 47-5201-1644
SUBMITTED
RECOMMENDED
APPROVED

NO	DATE	STATUS	BY	CK	REVISIONS
4	10-19-62	AS BUILT	JH		REVISED TO AS BUILT STATUS
3	2-23-56	AS BUILT	TRS		REVISED TO AS BUILT STATUS
2	8-10-51		JH		Corrected Column Schedule
1	6-7-51		WAS		Revised Title

Scale 1/4" = 1'-0"

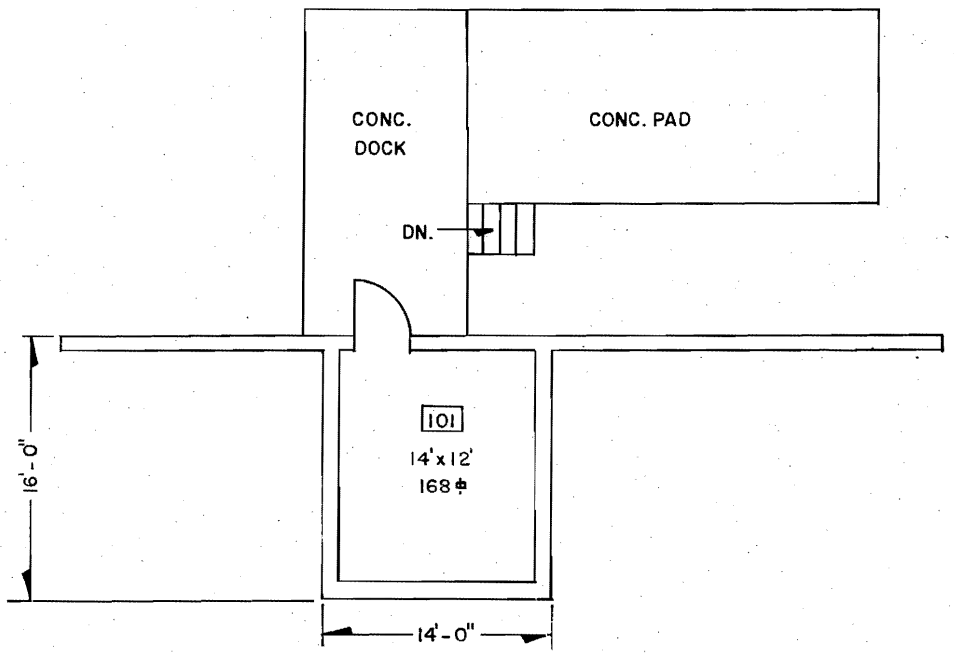
STRUCTURAL LAYOUT BLDGS NO. (86A) & (86B) NM-51 NM-52
PLANS & SECTIONS
PROJECT B
LOS ALAMOS TA-8 NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS

FILE NO.	1510
W.O.	C-1649
APPROVED	2-20
DATE	9-8-49
SUBMITTED	10/11/49
SHEET	21
DRAWING	113

U.S.L. DWG. NO. ENG-C 12479

SFR-FG-21

DOES NOT CONTAIN
OFFICIAL USE ONLY
INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/23/04



1/8"=1'-0"

0' 4' 8' 16'

GRAPHIC SCALE

TOTAL SQ. FT. 168

REV.	DATE	REVISION	BY	CKD.	APP.
1	8-31-83	REDRAWN & REVISED TO STATUS OF AUGUST 31, 1983	H&N		

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. AW-32 TA-8

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 10-16-83

SUBMITTED	RECOMMENDED	APPROVED

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	H&N	8-31-83	1 OF 1	ENG-R2630

LANL TA- Building # 08-0065

Camera 984242

Frame #s DCP_2488 through DCP_2490

Surveyor(s) S. McCarthy, J. Ronquillo

Date 6/10/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Source Storage Building UTMs easting 377949 northing 3968806 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Source Storage Building Original Use/ Function Source Storage Building

Date (estimated) Date (actual) 1955 Property Type Support

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☑ Wood Frame ☐ CMU ☐ Reinforced Concrete ☐

Other Type of Construction Raised concrete floor with dock # of Stories 1

Foundation Other

Exterior CMU-Exterior ☐ Reinforced Concrete-Exterior ☐ Steel (galvanized) ☑ Steel (corrugated) ☑

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Raised concrete dock, signage,and jib crane.

Addition CMU-Addition ☐ Reinforced Concrete-Addition ☐ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☑ Gable ☐ Other Roof Type

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☑ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type

# of Each Window Type/ Comments None

Glass Type Clear ☐ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐

Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☑
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Interior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☐ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments: A pair of oversized corrugated metal doors located at the west end of the dock and a single oversized corrugated metal door is located at the east end.

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior

In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Fair

Significance None

Eligible Under Criterion A ☐ B ☐ C ☐ D ☐ Not Eligible ☑

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐

Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐

Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

Architectural Features (elevations)

TA-8-65 is a one-story rectangular-in-plan building measuring 20 ft 8 in by 10 ft. The building is constructed with a raised concrete foundation and floor slab, steel frame walls covered with galvanized corrugated metal panels and low-pitched shed roof also covered with galvanized corrugated metal panels. A full-width dock, approximately 30 in. high, spans the entire front of the building.

Total sq ft 171 net

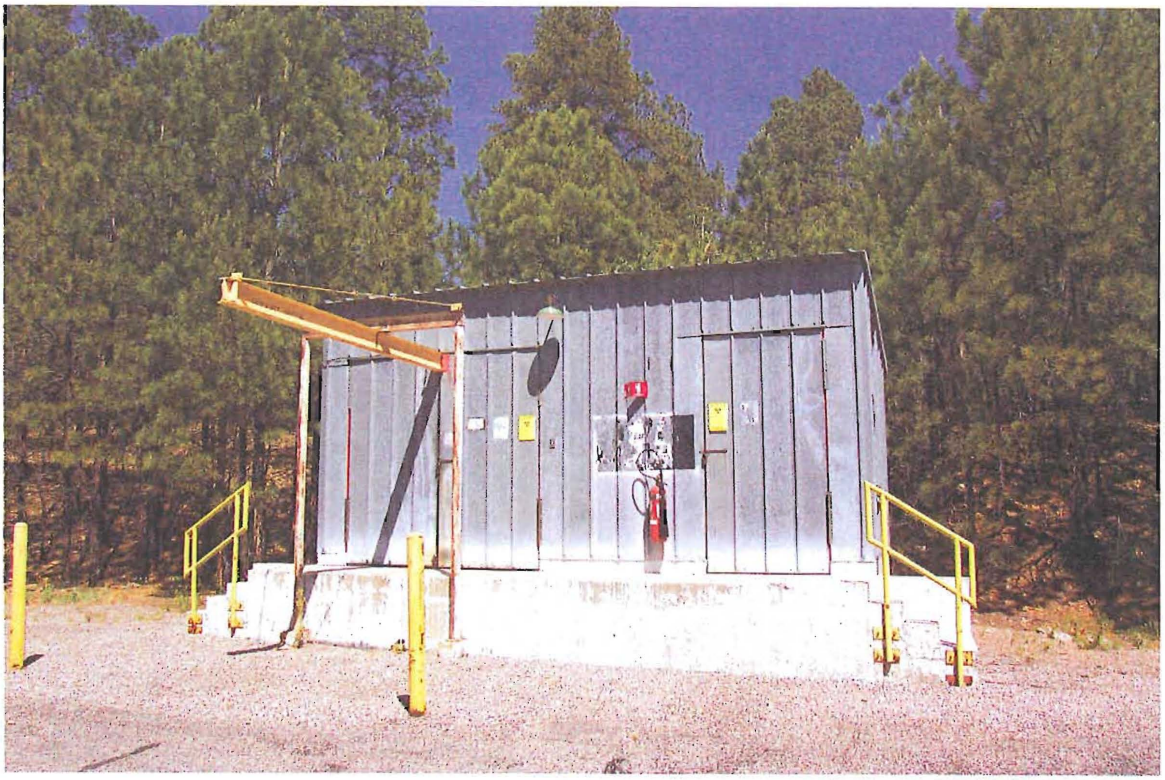
Architect/ Builder Los Alamos Scientific Laboratory/Zia Company

Alterations

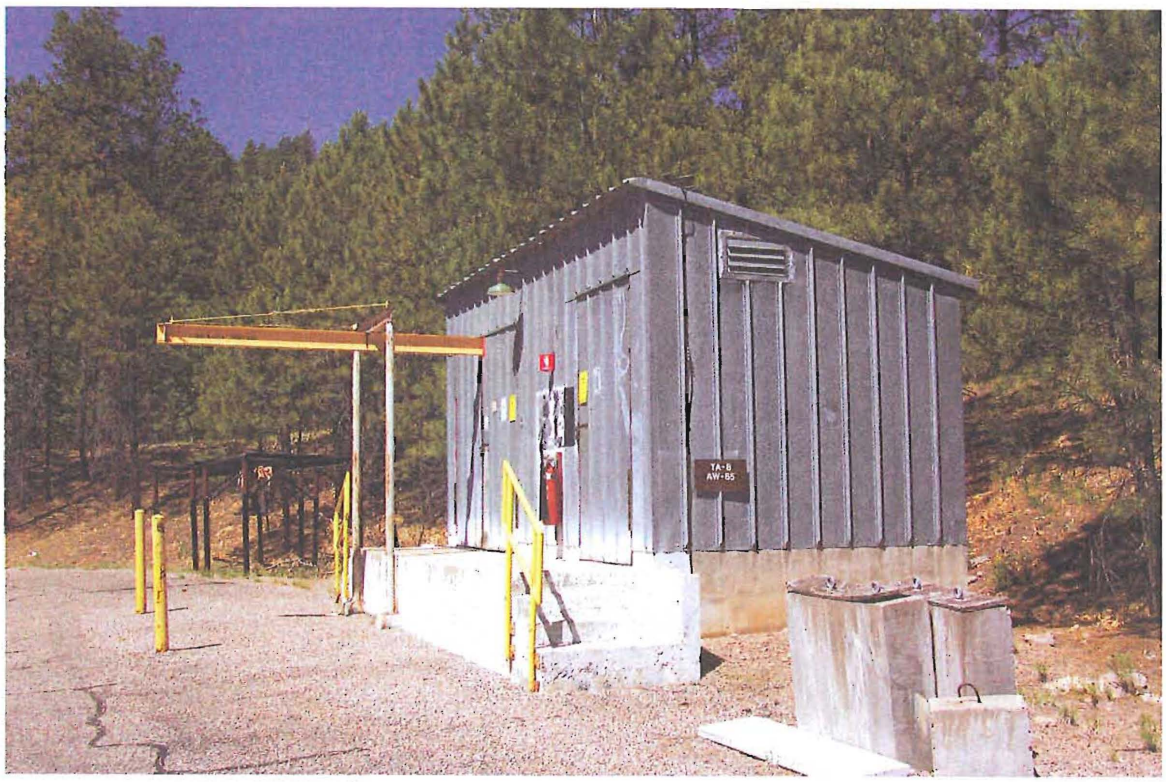
List of Drawings (Cntrl + Enter for para break)

ENG-C 10851
Sheet 1 of 3
TA-8, AW-65
TA-8-65
Source Storage Building
Plot Plan & Details
November 30, 1954

ENG-R 2631
Sheet 1 of 1
TA-8, Bldg AW-65
TA-8-65
source Storage building
Floor Plan
August 26, 1983



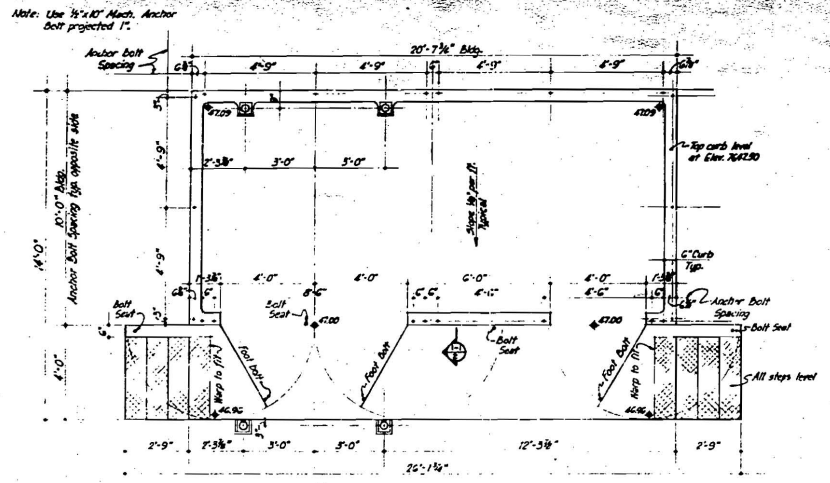
TA-8-65 Southeast Elevation



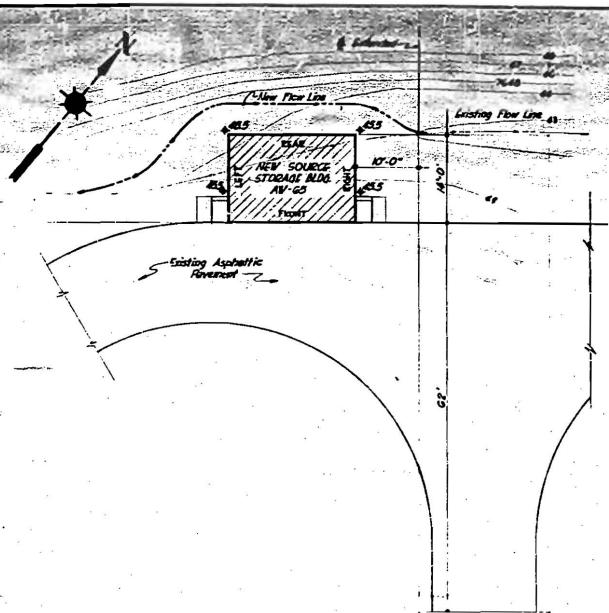
TA-8-65 Southeast and Northeast Elevations

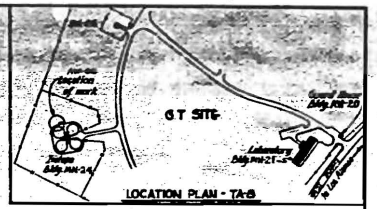


TA-8-65 Northwest and Southwest Elevations



PLAN
AW-65





NOTES

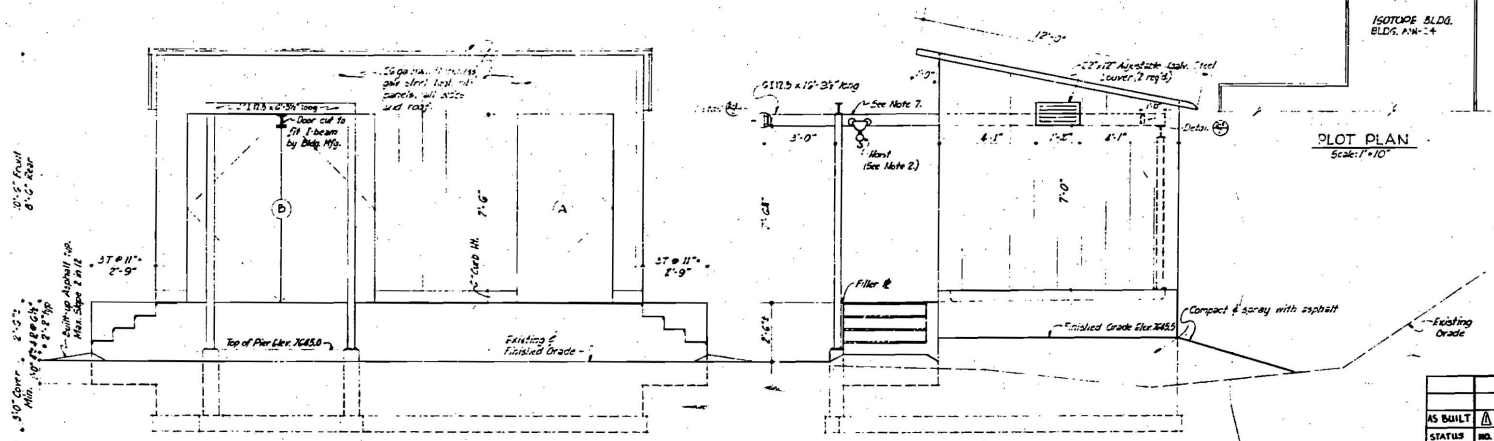
1. Building to be 10'x 20' prefabricated galv. steel metal Butler Bldg. or approved equal with shed roof, 10' front wall & 8' rear wall; door openings 4'x7'-6" & 6'x7'-6" to include doors as shown on schedule.
2. Hoist & Trolley to be 1 Ton capacity, hand operated, Yale or equal, furnished by Zia.
3. All steel framework is to be thoroughly cleaned & painted with one shop coat of rust inhibitive paint. Door frames & all other uncoated ferrous parts exposed to weather are to be painted likewise.
4. Monorail and supports to be painted with 2 coats of grey "Tefrust". Paint "hoist hook" yellow.
5. "1 Ton Capacity" to be painted in yellow letters 2" high, on side of Monorail near outside end.
6. Slab Subgrade to be compacted to 95% maximum density at optimum moisture content.
7. Footings to be carried to minimum depth shown on drawings. In case that unsatisfactory soil conditions are encountered at depths shown, footing depths shall be increased as directed by ENG-4.
8. New Concrete to be Class A - 3000 psi @ 7 days; use Hi-early-strength Cement.
9. Where lines and grades are required by the construction indicated on this drawing, they will be established by Eng. I Survey Personnel.
10. All structural design shall be in accordance with the 1952 Uniform Building Code, except roof design for snow load of 30 psf., & wind design shall comply with the requirements of the Final Report on Wind Bracing in Steel Buildings of the A.S.C.E.

* Butler Bldg. shown on drawings is currently available at The Baines Co., Inc., Albuquerque, N. Mex.

DOOR SCHEDULE

as called for or approved equal

Symbol	Type & Size	Hardware	Remarks
(A)	Single 4'x8'	Brass Plated "Tegco" cylinder lock set. 1½ pairs 4"x4" surface mounted galv. steel hinges. Stanley Foot Bolt-6" No. 356H.	Wood core galv. metal clad, 1¾" thick to match siding.
(B)	Double 4'x8'	Stanley Latch No. 1240 J, 2 pairs continuous-type hinges, 2 Stanley Foot Bolts-6" No 356 H.	Steel Frame of structural steel angles & sheeted on outside with 26 ga. galv. steel to match siding.



FRONT ELEVATION

SIDE ELEVATION
Opposite side typical

BUILDING DETAILS AW-65
Scale: ⅜"=1'-0"

THIS JOB MUST BE INSPECTED AND ANY CHANGES APPROVED BY ENG-4
STARLINGS PHONE 2-4554

OFFICIAL USE ONLY

AS BUILT STATUS	NO.	DATE	REVISIONS	BY	CHKD	APP'D
	1	6-45	NO REV. REQ'D TO AS BUILT STATUS 5-15-57	BM		

AUTHORIZED FOR: CHECKED Vanderkay; CHECKED DO NOT SCALE DRAWING; CHECKED Zia Vidal; HEALTH; SAFETY; FIRE PROT.; SEC.; END-4; END-4

LOS ALAMOS SCIENTIFIC LABORATORY
UNIVERSITY OF CALIFORNIA
ENGINEERING DEPARTMENT — LOS ALAMOS, N. M.

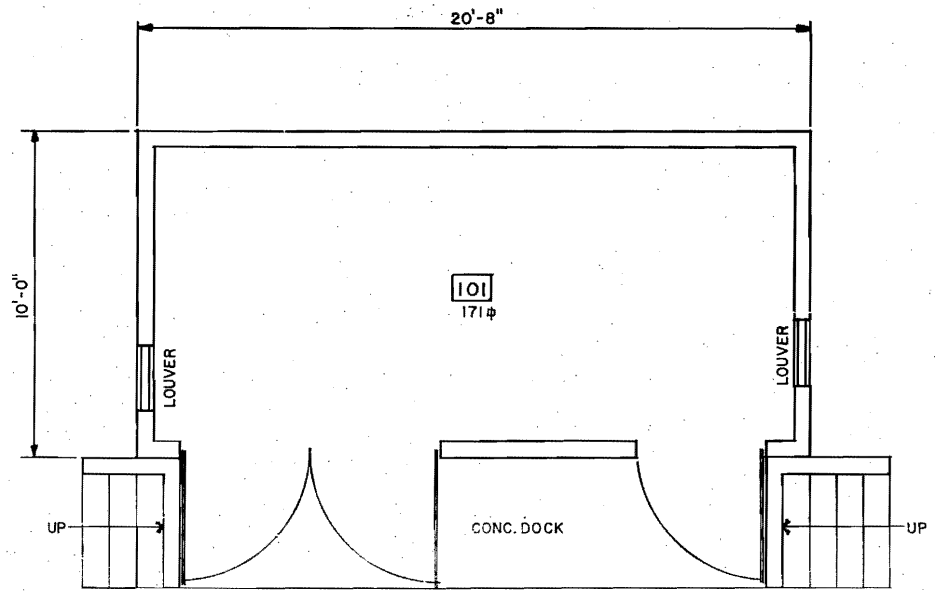
SOURCE STORAGE BUILDING
PLOT PLAN & DETAILS

AW-65 — TA-8

DESIGNED	RECOMMENDED	APPROVED
JPZ		
DRAWN JSM	DATE 11-30-54	ENGINEERING NO. ENG-C-10851
SCALE As Noted	SHEET 3 OF 3	

LAB. JOB NO. 1436

DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/13/04



½" (1/4"=1'-0")

0' 2' 4' 8'

GRAPHIC SCALE

BLDG. TOTAL - 171 S.F.

MF

REV.	DATE	REVISION	BY	CKD.	APP.
1	8-26-83	REDRAWN & REVISED TO STATUS OF 8-26-83	H&N		

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

SOURCE STORAGE BUILDING
FLOOR PLAN

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 10-14-83

BLDG. AW-65 TA-8

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo		

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	Humble H&N	8-26-83	1 OF 1	ENG-R 2631

LANL TA- Building # 08-0070

Camera 984244

Frame #s DCP_4136 through DCP_4152

Surveyor(s) S. McCarthy, BM, R. Barnes, K. Garcia

Date 7/25/2002

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Non-Destructive Test Facility UTMs easting 378373 northing 3969070 zone 13

Legal Description: Map Frijoles Quad tnsp 19N range 6E sec 19

Current Use/ Function Laboratory / Office Building Original Use/ Function Non-Destructive Test Facility

Date (estimated) Date (actual) 1959 Property Type Laboratory/Processing

Type of Construction

Pre-Fabricated Metal ☐ Steel Frame ☐ Wood Frame ☐ CMU ☐ Reinforced Concrete ☐

Other Type of Construction Reinforced concrete post and beam. # of Stories 1

Foundation Reinforced Concrete

Exterior CMU-Exterior ☑ Reinforced Concrete-Exterior ☐ Steel (galvanized) ☐ Steel (corrugated) ☐

Wood Siding ☐ Asbestos Shingles-Exterior ☐ In-Fill Panels ☐ Other-Exterior

Exterior Treatment (painted, stuccoed, etc) Painted

Exterior Features (docks, speakers, lights, signs, etc) Loading dock on east side, roll-up overhead door is centered on the south wall.

Addition CMU-Addition ☑ Reinforced Concrete-Addition ☑ Steel (galvanized)- Addition ☐ Wood ☐

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition

Exterior Treatment-Addition Northwest addition: concrete post and beam with CMU infill, southwest addition: concrete foundation and cmu walls.

Exterior Features-Addition

Roof Form Slanted/Shed ☑ Gable ☑ Other Roof Type

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal ☐ Rolled Asphalt ☐ Asbestos Shingles ☐ 4-Ply Built Up ☐

Other Roof Materials Membrane

Window Type Casement ☐ Single Hung Sash ☐ Double Hung Sash ☐ Fixed Window ☐

Other Window Type Awning

# of Each Window Type/ Comments

Glass Type Clear ☑ Wire Glass ☐ Opaque ☐ Painted Glass ☐ Glass Block ☐

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☑ Paneled ☐
Louvered ☐ Painted ☑

Interior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

Equipment Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☑ Sliding ☐
Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☑

Interior Fire Door ☐ Single ☐ Double ☑ Roll-up ☐ Sliding ☐
Hollow Metal ☑ Solid Metal ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐
CMU- Interior ☑ Plywood ☐ Other- Interior
In-Wall Electrical Wiring ☐ On-Wall Electrical Wiring ☐

Ceiling Drop Ceiling ☑

Interior Comments (Equipment, etc) The Non-Destructive Test Facility was originally constructed as a two-story open high-bay housing the main inspection room and an attached one-story support structure housing the electronics assembly and Magnaflux areas. A two-ton bridge crane spanned the width of the inspection bay. The Magnaflux room was equipped with 1 ½ ton monorail and solid panel sliding door opening on the south side of the room.

Degree of Remodeling Moderate

Condition Excellent ☐ Good ☑ Fair ☐ Deteriorating ☐ Contaminated ☐ Burned ☐

Associated Building ☐

If yes, list building names and #s

Integrity Good

Significance Eligible

Eligible Under Criterion A ☑ B ☐ C ☐ D ☐ Not Eligible ☐

DOE Themes

Nuclear Weapon Components and Assembly ☐
Nuclear Weapon Design and Testing ☑
Nuclear Propulsion ☐
Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science ☐
Energy and Environment: Research and Design Projects ☐

LANL Themes

Weapons Research and Design, Testing, and Stockpile Support ☑ Super Computing ☐
Reactor Technology ☐ Biomedical/Health Physics ☐ Strategic and Supporting Research ☐
Environment/Waste Management ☐ Administration and Social History ☐ Architectural History ☐

Recommendations/ Additional Comments

The building housed the Ultrasonic Imaging laboratory designed for acoustic emissions testing of critical components. The building also contained the first true 3-D Computed Tomography (CT) that could acquire both x-ray and neutron images. The full-volume imaging provided by the new CT system would allow for structural inspection and materials analysis of critical stockpile components.

Architectural Features (elevations)

A roll-up overhead door was centered on the south wall of the inspection bay. Operable windows were installed on the north, east and south sides. The west wall, entering directly into the highbay, was constructed with five pairs of metal doors and two single doors. A covered concrete loading dock was located on the east side of the support structure.

Total sq ft 8440

Architect/ Builder Kenneth Clark 7 Philippe Register/H.A. Lott, Inc.

Alterations

In 1962, an one-story addition was constructed on the west side of the Main Inspection Room and housed a Radiation Gaging room, Scanning Room, and Radiograph room. A second addition, constructed in 1965 and measuring 20'-8" by 22', was constructed to the south of the west side addition. By 1994, the interior of the original building was modified in that the Main Inspection Room has been divided into several enclosed spaces. The Magnaflux room, office, and Electronic Laboratory, in the east-side support structure, have also been subdivided into smaller rooms.

List of Drawings (Cntrl + Enter for para break)

ENG-PL 107
Sheet 11 of 13
TA-8, AW-70
TA-8-70
Nondestrictive Test Facility
Floor Plan - Services
May 8, 1959

ENG-C 27966
Sheet 7 of 14
TA-8, Bldg AW-70
TA-8-70
Nondestructive Test Facility
Architectural
Elevations & Details
February 5, 1960

ENG-PL 616
Sheet 1 of 1
TA-8, Bldg AW 70
TA-8-70
Non Destructive Test Facility
Addition No. 1
November 15, 1961

ENG-C 31304
Sheet 2 of 14
TA-8, Bldg. AW-70
TA-8-70
Additions to Bldgs. AW-22 & AW-70
Architectural - Bldg. AW-70
February 1, 1963

ENG-AB 240
Sheet 1 of 1
TA-8, Bldg 70
Non-Destructive Test Facility
As-Built Record Floor Plan
Architecture: First Floor Plan
February 14, 1994



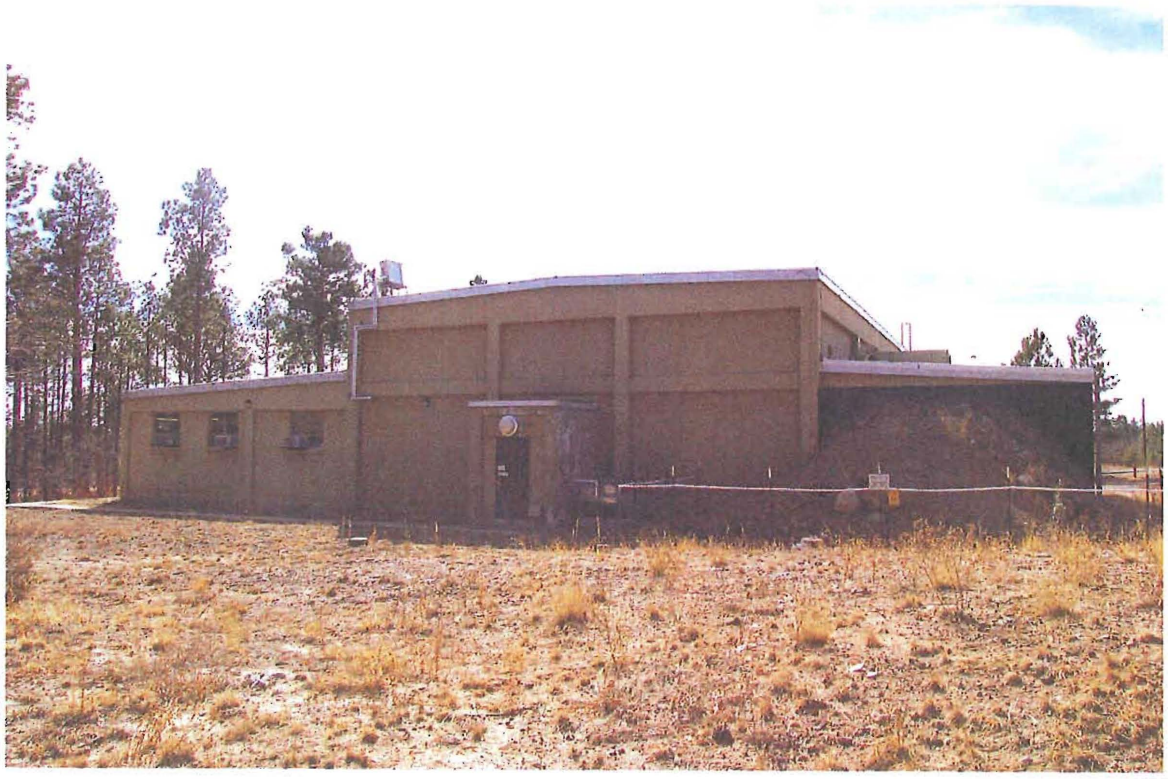
TA-8-70 South Elevation



TA-8-70 West and South Elevations



TA-8-70 North and West Elevations



TA-8-70 North Elevation



TA-8-70 East and North Elevations

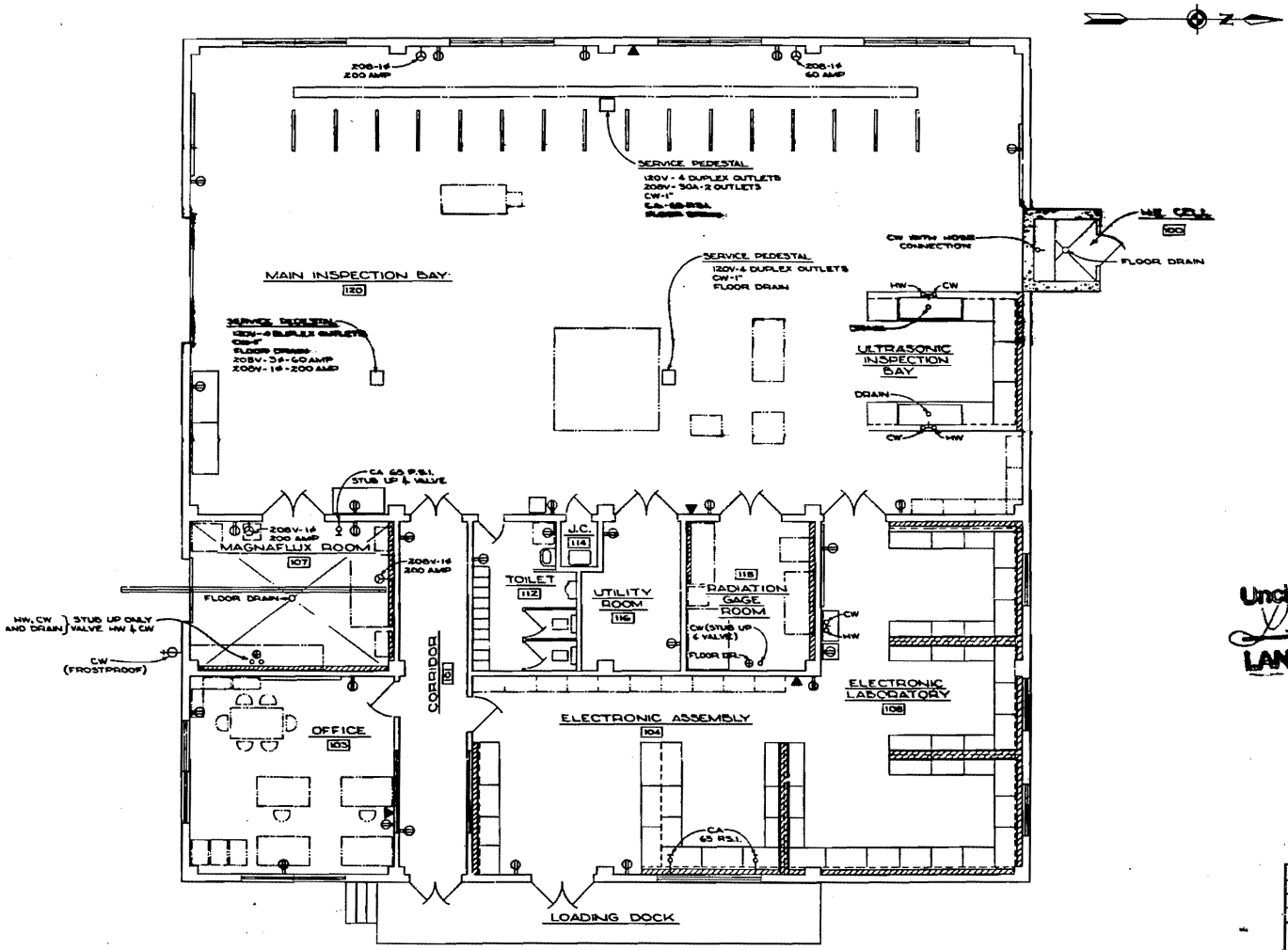


TA-8-70 East Elevation



TA-8-70 South and East Elevations

OFFICIAL USE ONLY



NOTE: FOR LEGEND SEE GENERAL LEGEND SHEET

Unclassified/ Not UCNI
D. Beckstead 2/25/03
LANL Class. Group date

GRAPHIC SCALE
SCALE 3/8"-0" 0 4 8 12 16

NO.	DATE	REVISIONS	BY	CHKD	TECH.	PROJ. ENG.
		[redacted]				

AUTHORIZED FOR CONSTRUCTION: HEALTH, SAFETY, FIRE PROT., ELEC., QUALITY ASSURANCE, QUALITY CONTROL

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

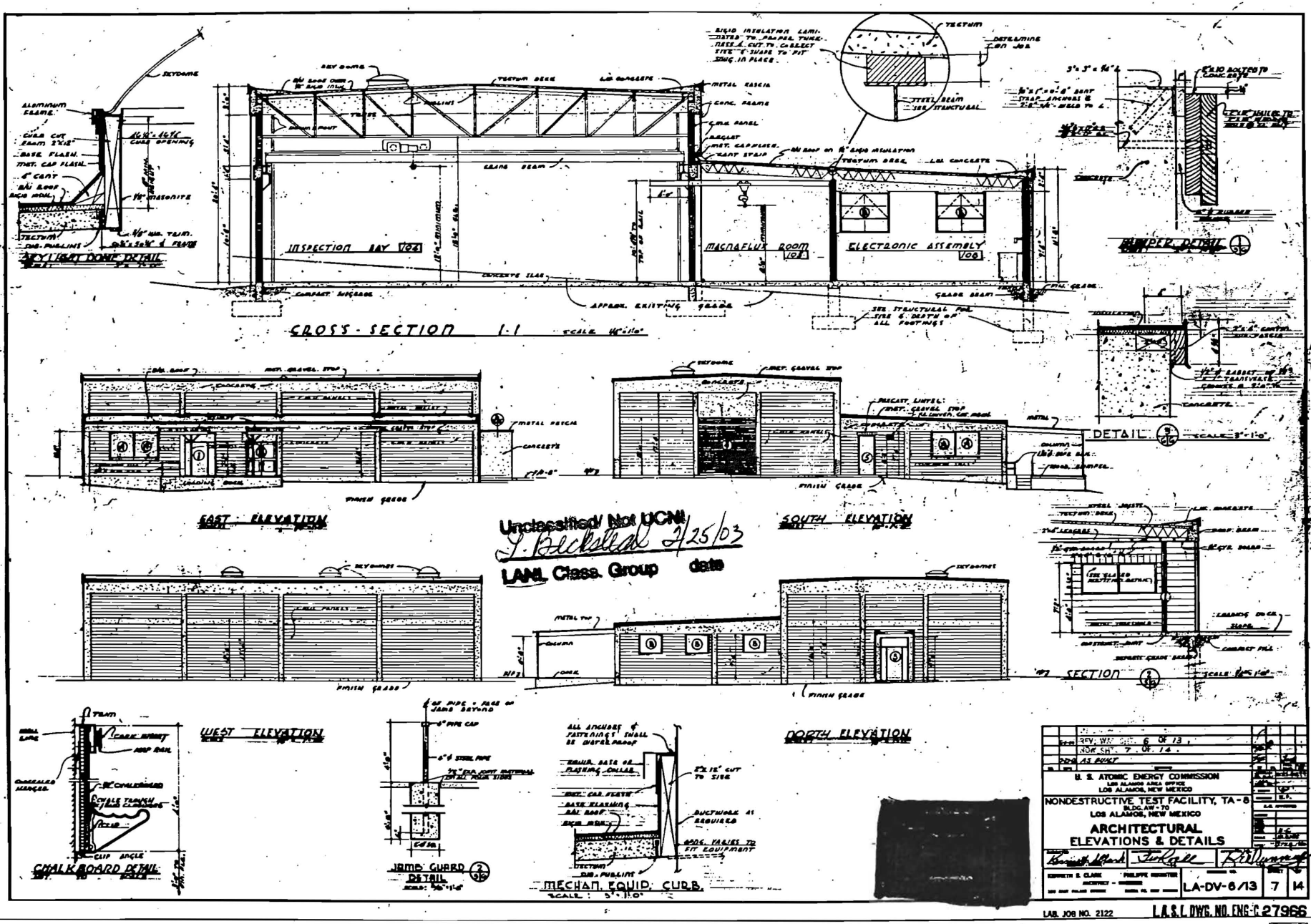
NONDESTRUCTIVE TEST FACILITY
FLOOR PLAN - SERVICES
BLDG. AW-70 TA-8

CHECKED	RECOMMENDED GROUP LEADER	APPROVED	
DESIGNED P.R.F.	DATE 5-8-59	ENG. DEPT. OFFICE	
DRAWN LINKE	SHEET 11 OF 13	DRAWING NO.	ENG-PL-107
SCALE 3/8"-1'-0"			

"DESIGN CRITERIA"

U. A. NO. _____ LAB. JOB NO. 2122

175



REV. W.	6 OF 13
NON SH.	7 OF 14
AS BUILT	

U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS AREA OFFICE
LOS ALAMOS, NEW MEXICO

NONDESTRUCTIVE TEST FACILITY, TA-8
BLDG. AW-70
LOS ALAMOS, NEW MEXICO

ARCHITECTURAL ELEVATIONS & DETAILS

Kenneth B. Clark — Architect — Los Alamos, New Mexico
Philippe Register — Architect — Los Alamos, New Mexico

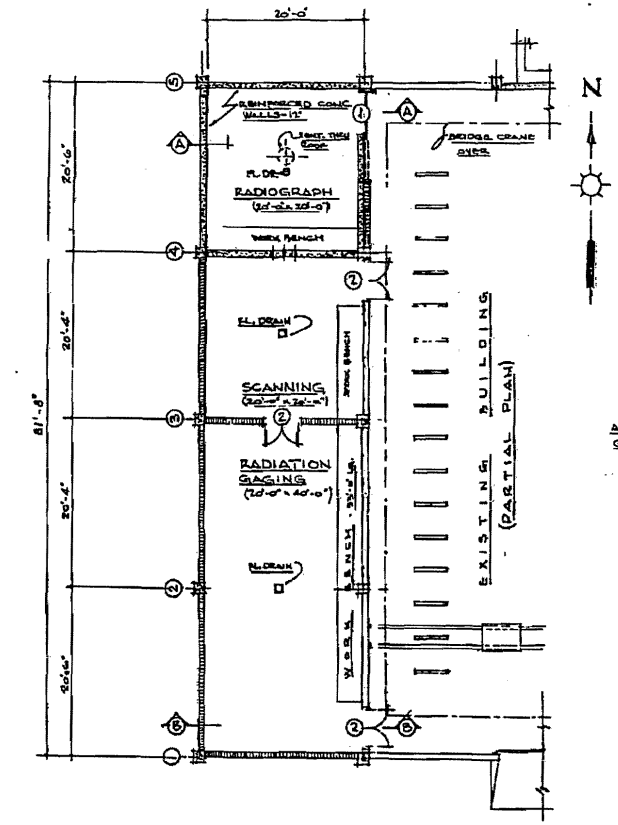
LA-DV-6/13 | 7 | 14

1960

LAB. JOB NO. 2122

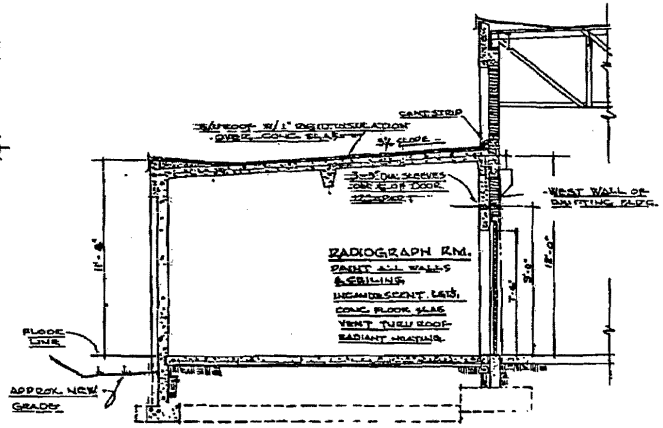
L.A.S.L. DWG. NO. ENG-C 27966

6 13



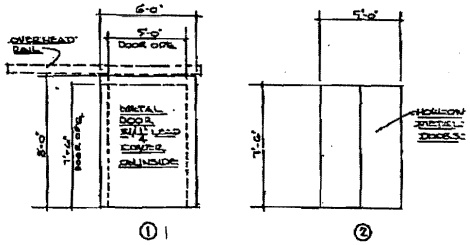
PLAN — ADDITION TO BLD'G. 91

SCALE 1/8" = 1'-0"



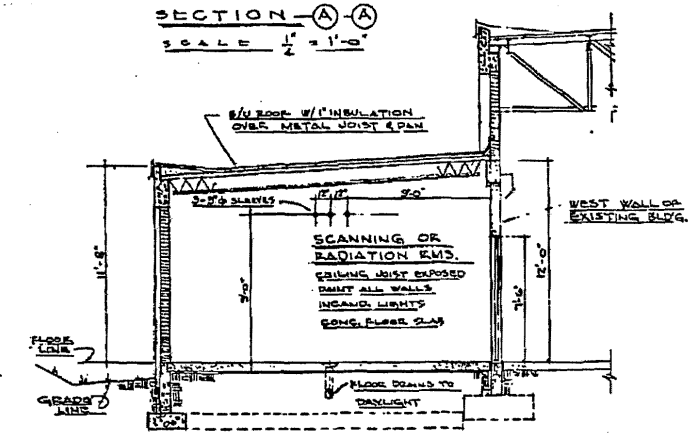
SECTION — (A) - (A)

SCALE 1/4" = 1'-0"



DOOR SCHEDULE

SCALE 1/4" = 1'-0"



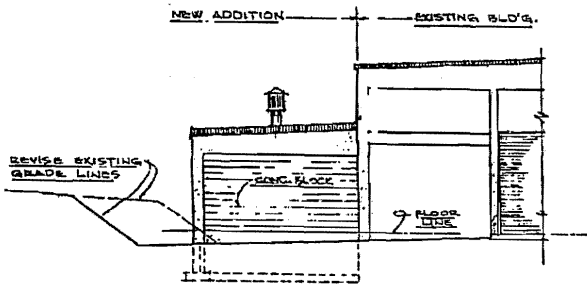
SECTION — (B) - (B)

SCALE 1/4" = 1'-0"

NOTES:

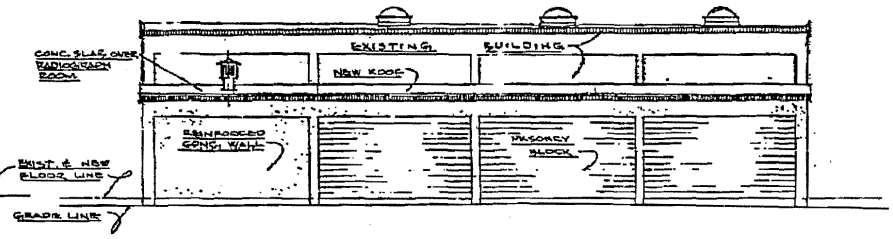
1.- SCANNING & RADIATION GAGING ROOMS TO BE AIR CONDITIONED.
2.- PROVIDE 110V & 220V OUTLETS (GROUNDED, 200 AMPS) AND 2 - 6x6 CONDUITS ALONG EAST & WEST WALLS OF SCANNING & RADIATION GAGING ROOMS.
3.- ALL LIGHTS TO BE INCANDESCENT.
4.- RELOCATE TELEPHONE (EXISTING) TO EAST WALL OF RADIATION GAGING ROOM.
5.- EXTEND PAGING SYSTEM.
6.- RADIOGRAPH ROOM TO BE PROVIDED WITH TELEPHONE OUTLET AT N.WEST CORNER OF EXISTING BLD'G. & 110V, 220V 3ϕ OUTLETS.
7.- 110V OUTLETS OVER WORK BENCHES.

NOTE:
SEE PL-613 FOR PLOT PLAN



SOUTH ELEVATION

SCALE 1/8" = 1'-0"



WEST ELEVATION

SCALE 1/8" = 1'-0"

2672A-B

LAB. JOB NO. [redacted]

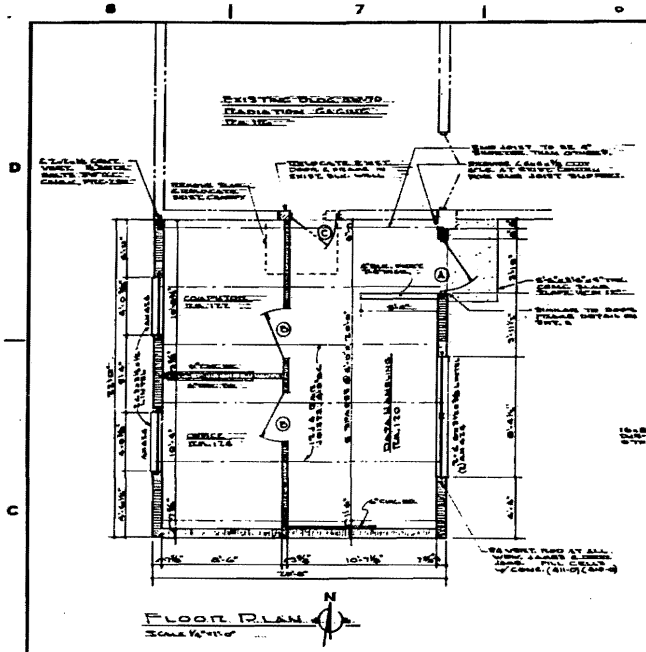
NO.	DATE	REVISIONS	BY	CHKD	ENG. DEPT.	ENG. D. O.
1	11-13-61	CHANGED LAB JOB NUMBER	JL	EJM	CPT	GB

AUTHORIZED FOR: GMX-1 (Sec 19) 6 mile Dia. Circle; HEALTH; SAFETY; FIRE PROT.; SEC.

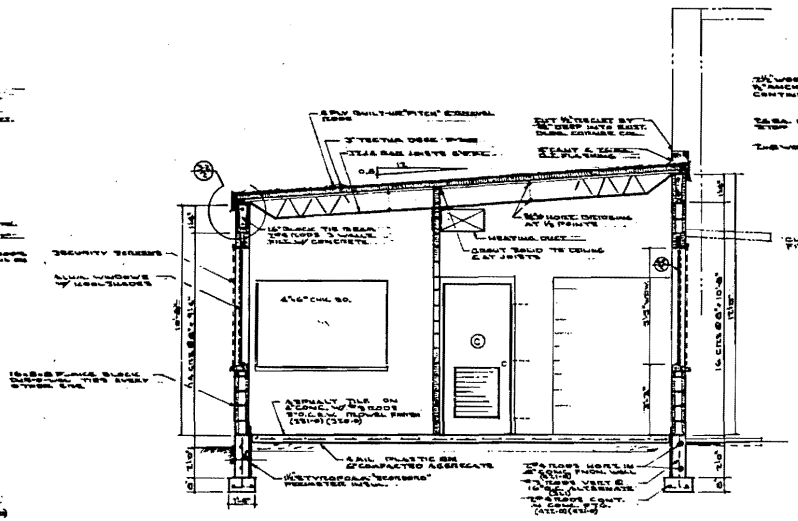
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

ADDITION NO. 1
NON DESTRUCTIVE TEST FAC.
BLDG. AW 70 TA-8

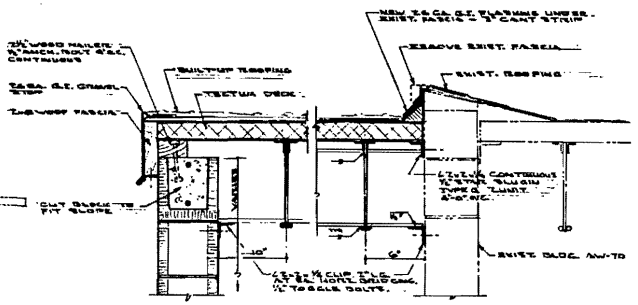
CHECKED	RECOMMENDED	APPROVED	
PROJ. ENG. Frank	GROUP LEADER	ENG. DEPT. OFFICE	GB
DESIGNED McCracken	DATE 11/15/61	DRAWING NO.	
DRAWN McCracken	SHEET 1 OF 1	ENG-PL 616	
SCALE AS NOTED			



FLOOR PLAN

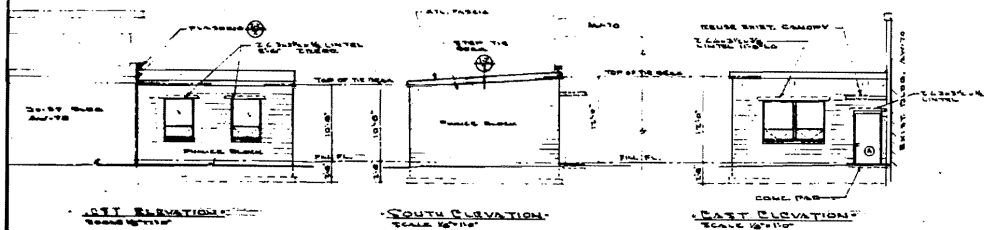


TYP. CROSS SECTION



EAVE DETAIL

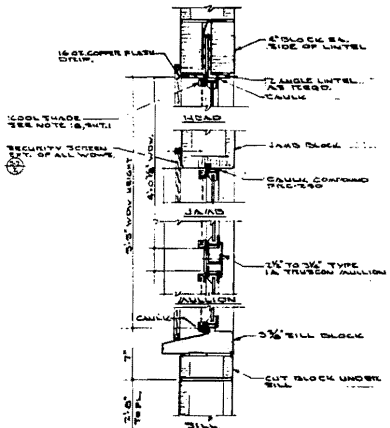
ROOF CONNECTION DETAIL



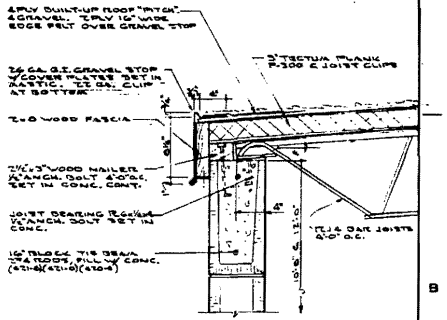
WEST ELEVATION

SOUTH ELEVATION

EAST ELEVATION



TYPICAL WINDOW DETAIL



EAVE DETAIL

DOOR SCHEDULE (BLDG AW-70)

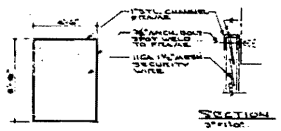
(A)	1 - 3'-0" x 7'-0" ALUM. DBR. - PROVIDE SECURITY EYES. W/ ALUM. DOOR FRAME. (REMAIN AS EXISTING)	
(B)	2 - 3'-0" x 7'-0" ALUM. DBR. W/ 4 GAL. HOLLOW METAL FLASHING. (REMAIN AS EXISTING - 12"x36" LOUVER, BOTTOM PANEL)	
(C)	1 - 3'-0" x 7'-0" RELOCATED EXIST. SECURITY DOOR & FRAME - (REMAIN AS EXISTING - 12"x36" LOUVER, BOTTOM PANEL)	

HARDWARE (TRUESDELL)

DOOR "A"
1 LOCKSET A 2050 SAS ROCKFORD
4 BTB BUTTS 652, 4½"x4½" DULL BRONZE ALUM. "SAFETY STUD" (SECURITY EYES)
1 THRESHOLD J-447 ALUM. 3'-0"
1 DOOR STOP F 1361½

DOOR "B"
2 LOCKSETS A 2079 SAS ROCKFORD
3 BTB BUTTS 652, 4½"x4½" DULL BRONZE ALUM.
2 DOOR STOPS F 2104½

DOOR "C"
REPLACE EXIST. FIRE EXIT DOOR WITH:
1 LOCKSET A 2079 SAS ROCKFORD
1 DOOR STOP F 1361½



ELEVATION — SECTION

SECURITY SCREEN - DETAIL (4 REQ'D)

WINDOW SCHEDULE (BLDG AW-70 ADDITION)

1. WINDOWS TO BE "TRUSCON" ALUMINUM PICTURE WINDOWS W/ HOPPER VENTS - SERIES 900-P (4 REQ'D) AS PER ONE (1) MULLION TYPE "IA" 5'-8" LONG
2. LINTELS TO BE STEEL ANGLES AS NOTED ON PLAN, AND TO BE 16" LONGER THAN WDW. OPEN. WIDTH.

THIS JOB MUST BE INSPECTED AND APPROVED BY ENG-4 BEFORE STARTING WORK. EXT. 367 & 474

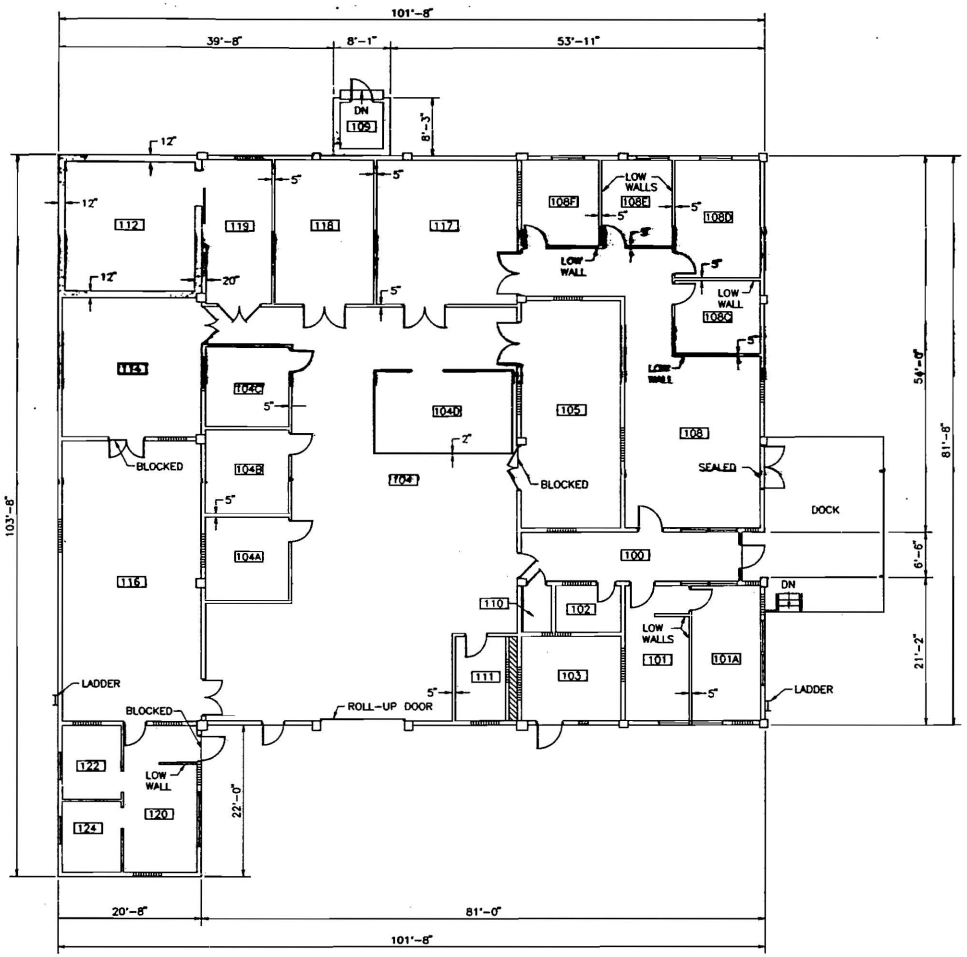
AUTHORIZED FOR
HEALTH M.S. APPROVAL
SAFETY
FIRE PROT.
SEC.

NO.	DATE	REVISIONS	BY	CHKD	SUP.	E.E.	CONST. ENGR.	FIRE PROT. E.E.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

ADDITIONS TO BLDGS. AW-72 & AW-70
ARCHITECTURAL - BLDG. AW-70
TA-6

CHECKED JFZ	ACCOMPLISHED GROUP LEADER	APPROVED	
ENGR. ENG. JFZ	DATE	ENG. DEPT. OFFICE DRAWING NO.	
DESIGNED	DATE FEB. 1966		
DRAWN	SHEET 2 of 14	ENG-C 31304	
SCALE AS SHOWN			
C.A. NO. 76	B. A. NO.	L. J. NO. 3018-6	



FIRST FLOOR PLAN

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

8 6 4 2 0 8 16 32

GRAPHIC SCALE

N

ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
100	242	105	494	114	422
101	152	108	723	115	830
101A	199	108C	137	117	434
102	73	108D	214	118	309
103	184	108E	132	119	222
104	1890	108F	143	120	232
104A	155	109	45	122	96
104B	158	110	36	124	90
104C	148	111	95	UTILITY	21
104D	236	112	366		

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 8,515

GROSS SQUARE FOOTAGE (BUILDING) = 8,807

LEGEND

BRICK
CONCRETE
CONCRETE BLOCK
LOUVER
UTILITY SPACE
WINDOW
WOOD OR METAL STUD
COLUMNS

NOTES

1. ALL EXTERIOR WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 8" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R2632.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.
6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.

NO	DATE	CLASS REV	DESCRIPTION	DRW	VER	CHK	REL	SUB	REC	APP
MF 1	12-19-95	U	ADDED ROOM 104D	AM	AM	DS	CS	JF	FT	ET

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
NON-DESTRUCTIVE TEST FACILITY
ARCH: FIRST FLOOR PLAN

DRAWN: S. CALLECOS
VERIFIED: S. CALLECOS
CHECKED: G. SANDOVAL
RELEASED: G. SANDOVAL
DATE: 02-14-96

BLDG 70 TA-8

SUBMITTED: JERRY FORTE 1/16/96
RECOMMENDED: FRED THOMPSON 1/16/96
APPROVED: FRED THOMPSON 1/16/96

Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 1 OF 1

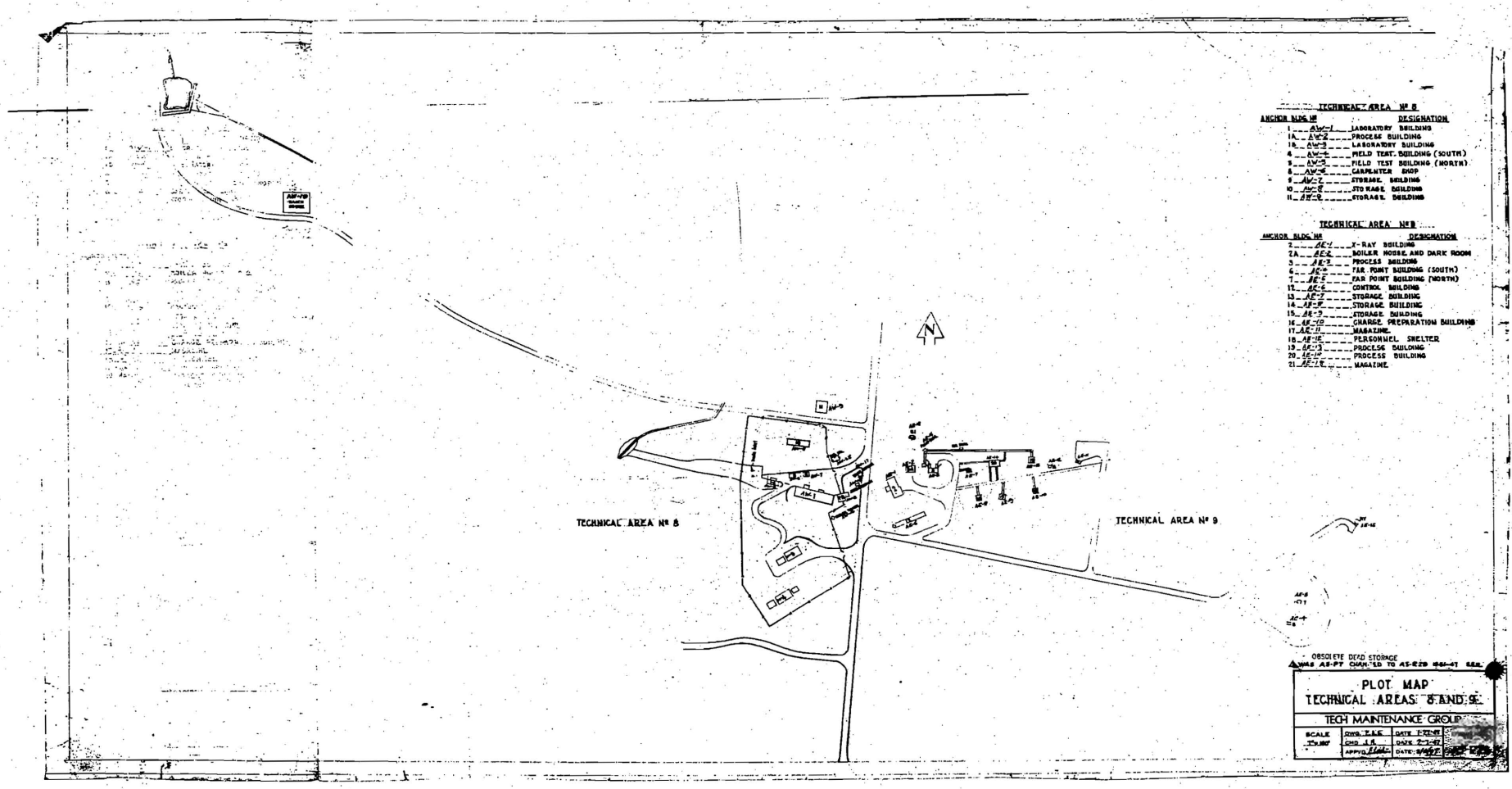
CLASSIFICATION U REVIEWER T. GUSDORF DATE 1-16-96

PROJECT ID 7556 DRAWING NO AB240 REV 1

FIELD VERIFIED 01-24-94

APPENDIX B

Maps Showing TA-8's Construction History and the Location of Eligible and Non-eligible Properties



TECHNICAL AREA Nº 8

ANCHOR BLDG Nº		DESIGNATION
1	AW-1	LABORATORY BUILDING
1A	AW-2	PROCESS BUILDING
1B	AW-3	LABORATORY BUILDING
4	AW-4	FIELD TEST. BUILDING (SOUTH)
5	AW-5	FIELD TEST BUILDING (NORTH)
6	AW-6	CARPENTER SHOP
9	AW-7	STORAGE BUILDING
10	AW-8	STORAGE BUILDING
11	AW-9	STORAGE BUILDING

TECHNICAL AREA Nº 9

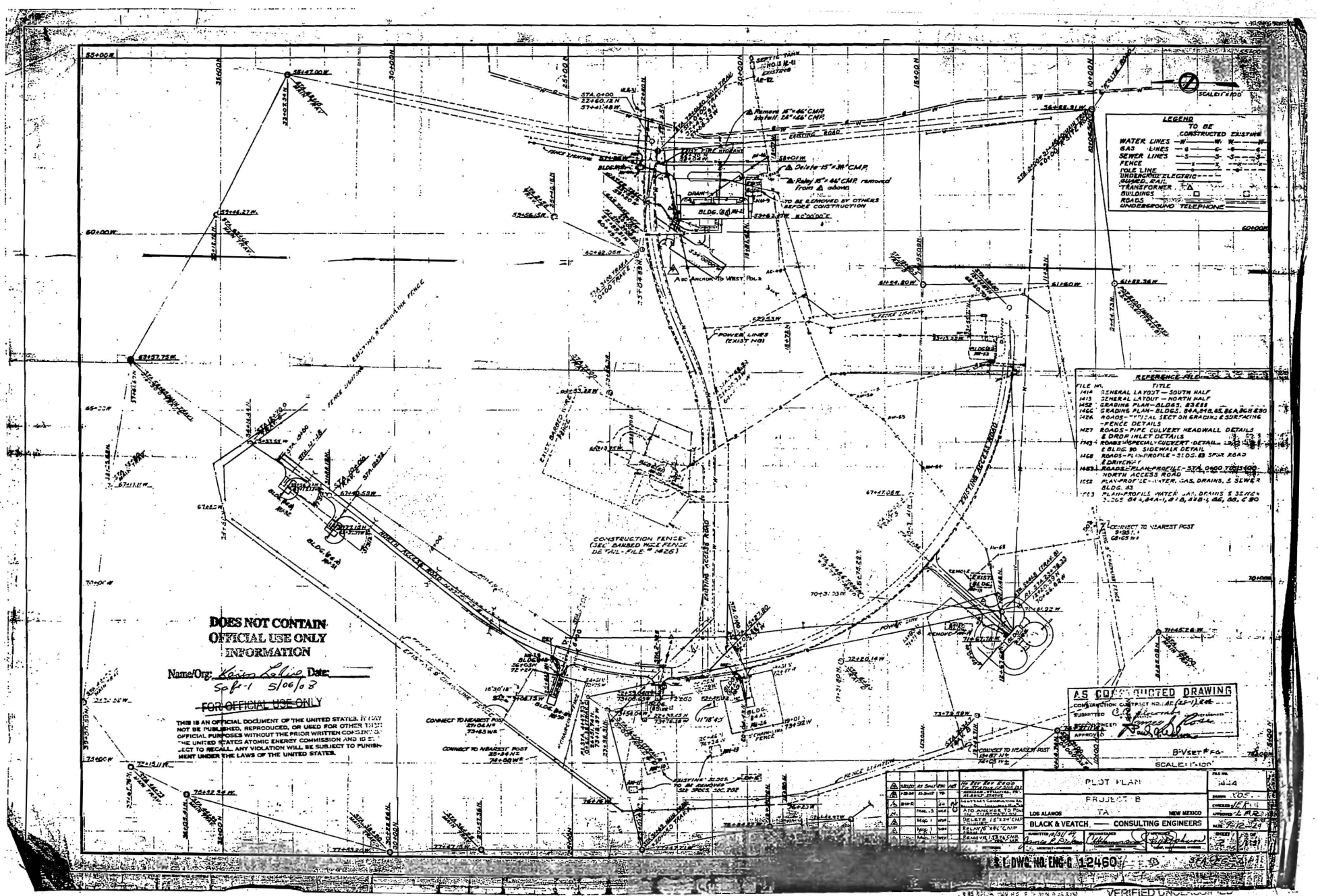
ANCHOR BLDG Nº		DESIGNATION
2	AE-1	X-RAY BUILDING
2A	AE-2	BOILER HOUSE AND DARK ROOM
3	AE-3	PROCESS BUILDING
6	AE-4	FAR POINT BUILDING (SOUTH)
7	AE-5	FAR POINT BUILDING (NORTH)
12	AE-6	CONTROL BUILDING
13	AE-7	STORAGE BUILDING
14	AE-8	STORAGE BUILDING
15	AE-9	STORAGE BUILDING
16	AE-10	CHARGE PREPARATION BUILDING
17	AE-11	MAGAZINE
18	AE-12	PERSONNEL SHELTER
19	AE-13	PROCESS BUILDING
20	AE-14	PROCESS BUILDING
21	AE-15	MAGAZINE

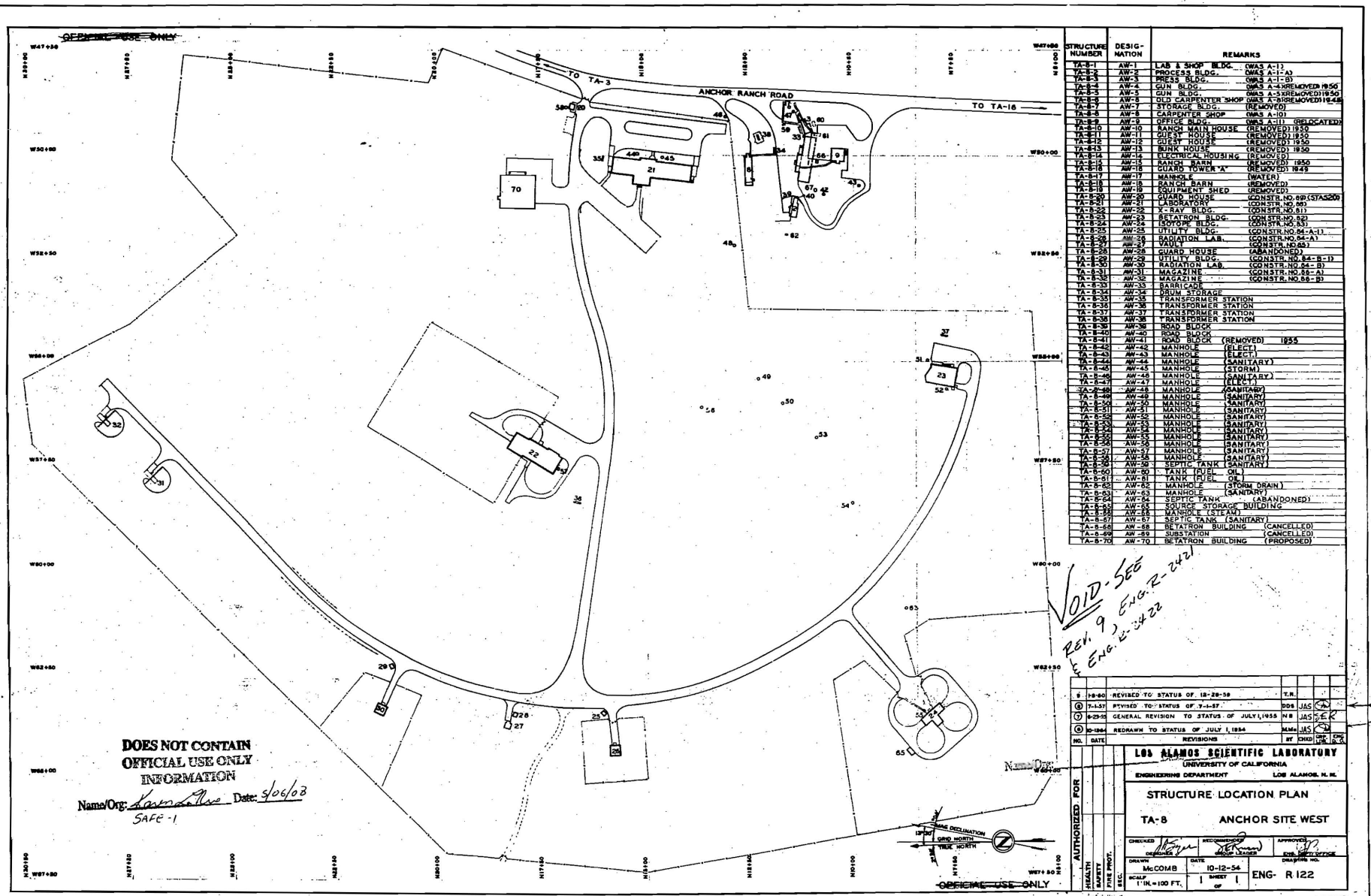
OBSOLETE DEAD STORAGE
WAS AS-PT CHANGED TO AS-229 1961-67 SEB

PLOT MAP
TECHNICAL AREAS 8 AND 9

TECH MAINTENANCE GROUP

SCALE	DWG. T.L.C.	DATE 1-27-67
1"=200'	CHD J.R.	DATE 2-1-67
	APPVD	DATE 2/6/67


LEGEND
TO BE CONSTRUCTED
EXISTING
WATER LINES
GAS LINES
SEWER LINES
FENCE
POLE LINE
UNDERGROUND ELECTRIC
GUARD RAIL
TRANSFORMER
BUILDINGS
ROADS
UNDERGROUND TELEPHONE
REFERENCE FILE
FILE NO. TITLE
1414 GENERAL LAYOUT — SOUTH HALF
1413 GENERAL LAYOUT — NORTH HALF
1452 GRADING PLAN — BLDGS. 83 & 89
1462 GRADING PLAN — BLDGS. 84A, 84B, 85, 86A, 86B & 90
1426 ROADS — TYPICAL SECTION GRADING & SURFACING — FENCE DETAILS
1427 ROADS — PIPE CULVERT HEADWALL DETAILS & DROP INLET DETAILS
1443 ROADS — SPECIAL CULVERT DETAIL
1468 ROADS — PLAN-PROFILE — BLDG. 83 SPUR ROAD & DRIVEWAY
1483 ROADS — PLAN-PROFILE — STA. 0400 TO STA 400 NORTH ACCESS ROAD
1252 PLAN-PROFILE — WATER, GAS, DRAINS & SEWER BLDG. 83
1253 PLAN-PROFILE WATER, GAS, DRAINS & SEWER BLDGS 84A, 84A-1, 87B, 88B-1, 88, 88, & 90
DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Kevin LaGrio Date: 5/06/08
SPfr-1
FOR OFFICIAL USE ONLY
THIS IS AN OFFICIAL DOCUMENT OF THE UNITED STATES. IT MAY NOT BE PUBLISHED, REPRODUCED, OR USED FOR OTHER THAN OFFICIAL PURPOSES WITHOUT THE PRIOR WRITTEN CONSENT OF THE UNITED STATES ATOMIC ENERGY COMMISSION AND IS SUBJECT TO RECALL. ANY VIOLATION WILL BE SUBJECT TO PUNISHMENT UNDER THE LAWS OF THE UNITED STATES.
AS CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO.: AC (2-1) 5446
SUBMITTED
APPROVED
PLOT PLAN
PROJECT B
TA
LOS ALAMOS NEW MEXICO
BLACK & VEATCH, CONSULTING ENGINEERS
SCALE: 1"=100'
DWG. NO. ENG-C 12460
DOES NOT CONTAIN OFFICIAL USE ONLY
VERIFIED UNCLASSIFIED
LANL Classification Group



STRUCTURE NUMBER	DESIG-NATION	REMARKS
TA-8-1	AW-1	LAB & SHOP BLDG. (WAS A-1)
TA-8-2	AW-2	PROCESS BLDG. (WAS A-1-A)
TA-8-3	AW-3	PRESS BLDG. (WAS A-1-B)
TA-8-4	AW-4	GUN BLDG. (WAS A-4 & REMOVED 1950
TA-8-5	AW-5	GUN BLDG. (WAS A-5 & REMOVED 1950
TA-8-6	AW-6	OLD CARPENTER SHOP (WAS A-9 & REMOVED 1948
TA-8-7	AW-7	STORAGE BLDG. (REMOVED)
TA-8-8	AW-8	CARPENTER SHOP (WAS A-10)
TA-8-9	AW-9	OFFICE BLDG. (WAS A-11) (RELOCATED)
TA-8-10	AW-10	RANCH MAIN HOUSE (REMOVED) 1950
TA-8-11	AW-11	GUEST HOUSE (REMOVED) 1950
TA-8-12	AW-12	GUEST HOUSE (REMOVED) 1950
TA-8-13	AW-13	BUNK HOUSE (REMOVED) 1950
TA-8-14	AW-14	ELECTRICAL HOUSING (REMOVED)
TA-8-15	AW-15	RANCH BARN (REMOVED) 1950
TA-8-16	AW-16	GUARD TOWER "A" (REMOVED) 1949
TA-8-17	AW-17	MANHOLE (WATER)
TA-8-18	AW-18	RANCH BARN (REMOVED)
TA-8-19	AW-19	EQUIPMENT SHED (REMOVED)
TA-8-20	AW-20	GUARD HOUSE (CONSTR. NO. 69) (STA 5209
TA-8-21	AW-21	LABORATORY (CONSTR. NO. 80)
TA-8-22	AW-22	X-RAY BLDG. (CONSTR. NO. 81)
TA-8-23	AW-23	BETATRON BLDG. (CONSTR. NO. 82)
TA-8-24	AW-24	ISOTOPE BLDG. (CONSTR. NO. 83)
TA-8-25	AW-25	UTILITY BLDG. (CONSTR. NO. 84-A-1)
TA-8-26	AW-26	RADIATION LAB. (CONSTR. NO. 85-A)
TA-8-27	AW-27	VAULT (CONSTR. NO. 83)
TA-8-28	AW-28	GUARD HOUSE (ABANDONED)
TA-8-29	AW-29	UTILITY BLDG. (CONSTR. NO. 84-B-1)
TA-8-30	AW-30	RADIATION LAB. (CONSTR. NO. 84-B)
TA-8-31	AW-31	MAGAZINE (CONSTR. NO. 88-A)
TA-8-32	AW-32	MAGAZINE (CONSTR. NO. 88-B)
TA-8-33	AW-33	BARRICADE
TA-8-34	AW-34	DRUM STORAGE
TA-8-35	AW-35	TRANSFORMER STATION
TA-8-36	AW-36	TRANSFORMER STATION
TA-8-37	AW-37	TRANSFORMER STATION
TA-8-38	AW-38	TRANSFORMER STATION
TA-8-39	AW-39	ROAD BLOCK
TA-8-40	AW-40	ROAD BLOCK
TA-8-41	AW-41	ROAD BLOCK (REMOVED) 1955
TA-8-42	AW-42	MANHOLE (ELECT.)
TA-8-43	AW-43	MANHOLE (ELECT.)
TA-8-44	AW-44	MANHOLE (SANITARY)
TA-8-45	AW-45	MANHOLE (STORM)
TA-8-46	AW-46	MANHOLE (SANITARY)
TA-8-47	AW-47	MANHOLE (ELECT.)
TA-8-48	AW-48	MANHOLE (SANITARY)
TA-8-49	AW-49	MANHOLE (SANITARY)
TA-8-50	AW-50	MANHOLE (SANITARY)
TA-8-51	AW-51	MANHOLE (SANITARY)
TA-8-52	AW-52	MANHOLE (SANITARY)
TA-8-53	AW-53	MANHOLE (SANITARY)
TA-8-54	AW-54	MANHOLE (SANITARY)
TA-8-55	AW-55	MANHOLE (SANITARY)
TA-8-56	AW-56	MANHOLE (SANITARY)
TA-8-57	AW-57	MANHOLE (SANITARY)
TA-8-58	AW-58	MANHOLE (SANITARY)
TA-8-59	AW-59	SEPTIC TANK (SANITARY)
TA-8-60	AW-60	TANK (FUEL OIL)
TA-8-61	AW-61	TANK (FUEL OIL)
TA-8-62	AW-62	MANHOLE (STORM DRAIN)
TA-8-63	AW-63	MANHOLE (SANITARY)
TA-8-64	AW-64	SEPTIC TANK (ABANDONED)
TA-8-65	AW-65	SOURCE STORAGE BUILDING
TA-8-66	AW-66	MANHOLE (STEAM)
TA-8-67	AW-67	SEPTIC TANK (SANITARY)
TA-8-68	AW-68	BETATRON BUILDING (CANCELLED)
TA-8-69	AW-69	SUBSTATION (CANCELLED)
TA-8-70	AW-70	BETATRON BUILDING (PROPOSED)

VOID - SEE REV. 9, ENG-R-242 & ENG-E-342

NO.	DATE	REVISIONS	BY	CHKD	ORIG. DR.	ENG. D.L.
5	1-9-60	REVISED TO STATUS OF 12-28-59	T.R.			
6	7-1-57	REVISED TO STATUS OF 7-1-57.	DDS	JAS		
7	6-23-55	GENERAL REVISION TO STATUS OF JULY 1, 1955	N B	JAS		
8	10-1954	REDRAWN TO STATUS OF JULY 1, 1954	MMc	JAS		

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY
UNIVERSITY OF CALIFORNIA
ENGINEERING DEPARTMENT LOS ALAMOS, N. M.

STRUCTURE LOCATION PLAN
TA-8 ANCHOR SITE WEST

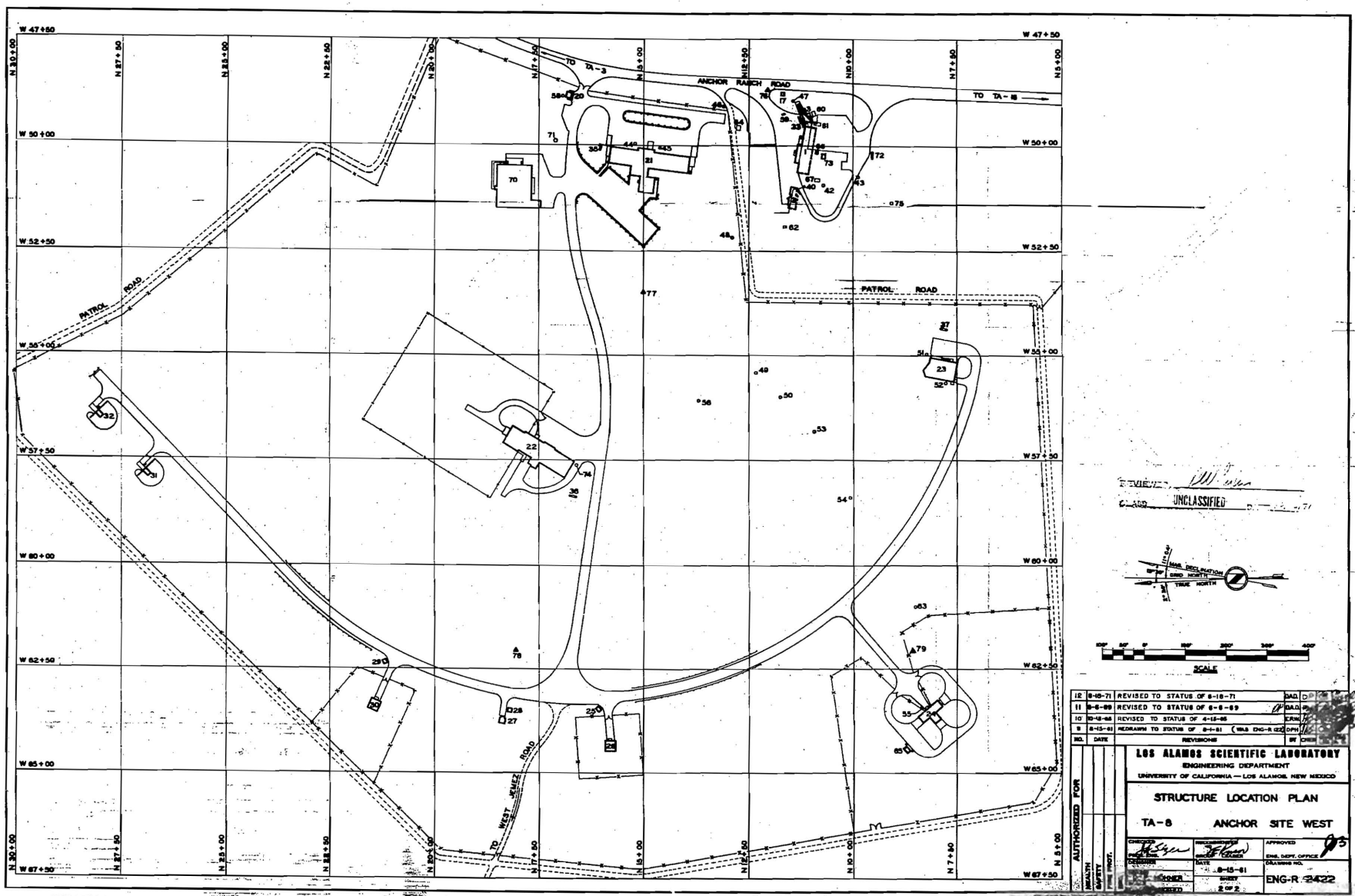
CHECKED DEPT. HEAD | RECOMMENDED PROJECT ENGR. | APPROVED ENG. DIV. OFFICE

DRAWN McCOMB | DATE 10-12-54 | DRAWING NO. ENG- R 122
SCALE 1" IN. = 100 FT. | SHEET 1 OF 1

OBSOLETE DEAD STORAGE

DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Karen Love Date: 5/06/08
SAFE-1

VERIFIED UNCLASSIFIED
LANL Classification Group
Karen Love
Safe-1 5/06/08



REVIEWED DW Mills

CLASS UNCLASSIFIED DATE 6-18-71

NO.	DATE	REVISIONS	BY	CHKD
12	6-18-71	REVISED TO STATUS OF 6-18-71	DAD	DP
11	9-6-69	REVISED TO STATUS OF 6-6-69	DAD	DP
10	10-15-65	REVISED TO STATUS OF 6-15-65	KRM	TJ
9	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R 1212)	DPH	TJ

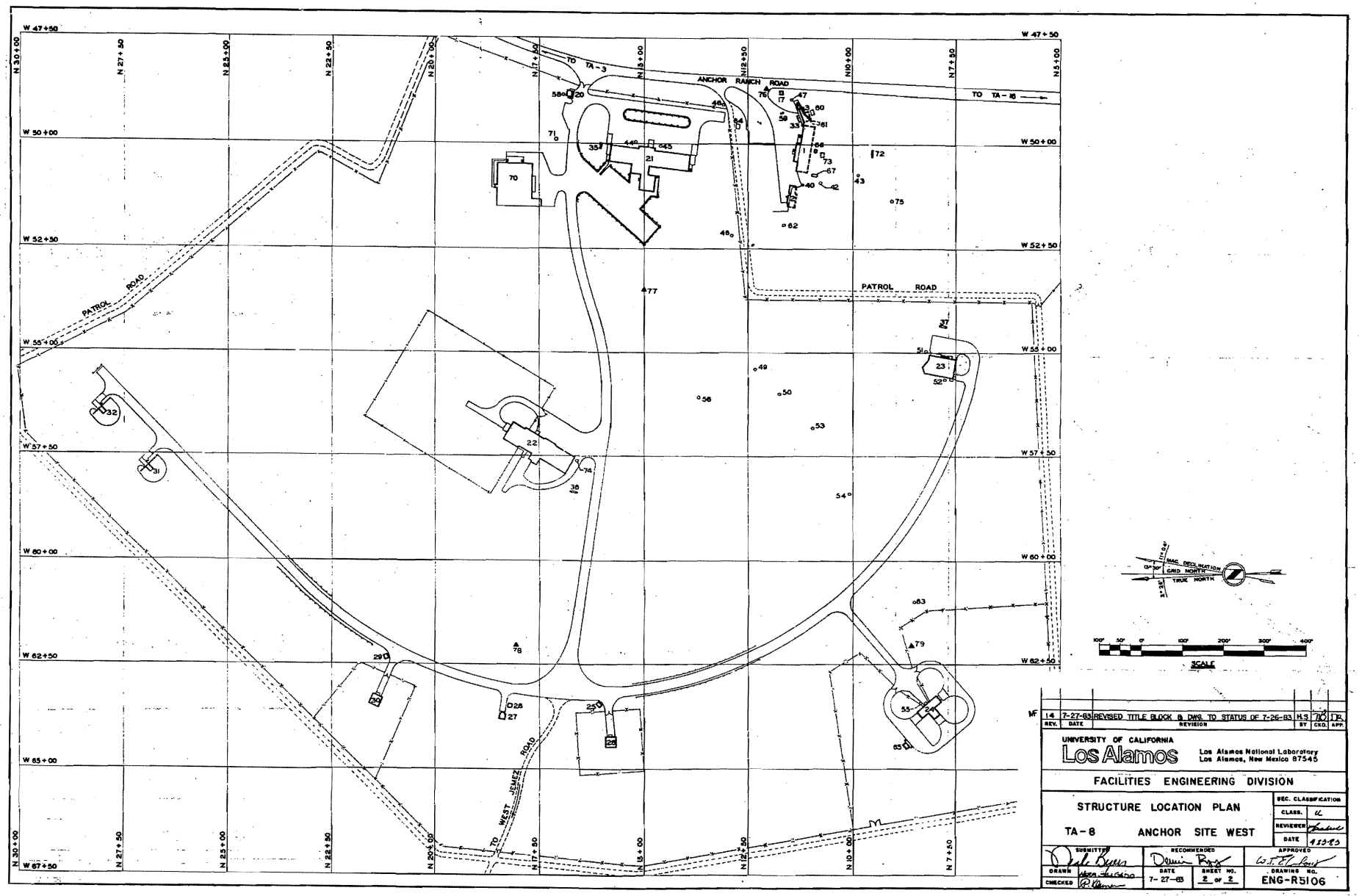
AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

STRUCTURE LOCATION PLAN

TA-8 ANCHOR SITE WEST

CHECKED	ENGINEER-IN-CHARGE	APPROVED	
DESIGNED	DRAWN	ENG. DEPT. OFFICE	
	DATE 8-15-61	DRAWING NO.	ENG-R 2422
	SHEET 2 OF 2		



REV.	DATE	REVISION	BY	CKD.	APP.
14	7-27-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-83	H.S		

UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

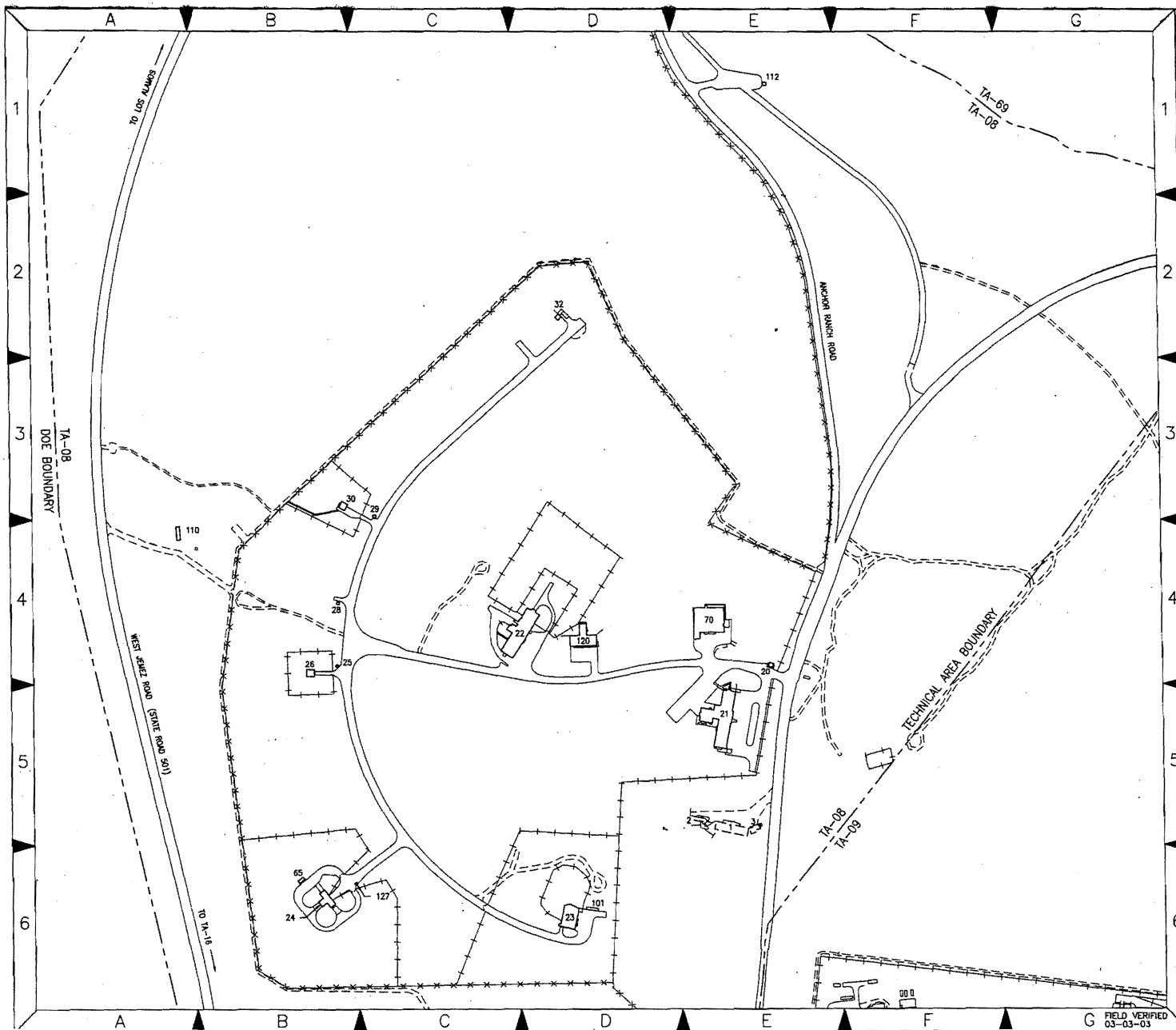
STRUCTURE LOCATION PLAN

TA-8 ANCHOR SITE WEST

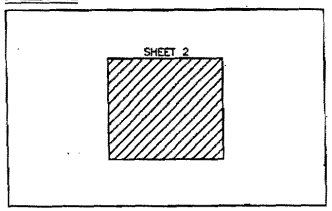
SEC. CLASSIFICATION: CLASS. U; REVIEWER; DATE 9-13-83

SUBMITTED	RECOMMENDED	APPROVED
DRAWN	DATE	SHEET NO.
CHECKED	7-27-83	2 OF 2

DRAWING NO. ENG-R5106



KEY MAP



STRUCTURE LOCATION INDEX

STRUCTURE TA-#	STRUCTURE NOMENCLATURE DESIGNATION		STRUCTURE LOCATOR SHEET NO.	STRUCTURE LOCATOR MAP KEY
08-1	AW-1	LABORATORY & SHOP	2	E-5
08-2	AW-2	SHOP & STORAGE BLDG.	2	E-5
08-3	AW-3	LABORATORY BLDG.	2	E-5
08-20	AW-20	GUARD STA.	2	E-4
08-21	08-21	HE CHEMISTRY RESEARCH BLDG.	2	E-5
08-22	AW-22	NONDESTRUCTIVE TESTING	2	D-4
08-23	AW-23	BETATRON BLDG.	2	D-6
08-24	AW-24	FLASH X-RAY R&D	2	B-6
08-25	AW-25	UTILITY BLDG.	2	B-4
08-26	AW-26	STORAGE/SALVAGE BLDG.	2	B-4
08-28	AW-28	GUARD SHACK	2	B-4
08-29	AW-29	UTILITY BLDG.	2	C-3
08-30	AW-30	M.A.S.H. RESEARCH LAB	2	B-3
08-32	AW-32	MAGAZINE	2	D-2
08-65	AW-65	SOURCE STORAGE BLDG.	2	B-6
08-70	08-70	LAB/OFFICE BLDG.	2	E-4
08-101	08-101	TRANSPORTAINER	2	D-6
08-110	08-110	WATER TANK	2	A-4
08-112	08-112	METAL SHED	2	E-1
08-120	08-120	ACCIDENT RESPONSE NDE FAC.	2	D-4
08-127	08-127	USGS GAUGING STATION	2	B-6

SCALE: 1:1800

150 0 150 300

FEET

N

NO	DATE	CLASS REV	DESCRIPTION	DRN	DES	CHKD	SUB	APP
3	03-03-03	LL HMS	REVISED TO STATUS OF 03-03-03	SDB	HPR	MES	HMS	LAB
2	04-02-01		REVISED TO STATUS OF 04-02-01	HPR	SAD	CCS	HMS	LAB
1	06-03-87		REVISED TO STATUS OF 06-03-87	MES	PMC	HMS	DMV	LAB

KSL KBR • SHAW • LATA

AS-BUILT STRUCTURE LOCATION MAPS

ANCHOR WEST SITE

TA-08

DRAWN	J. MORK
DESIGN	J. MORK
CHECKED	H. SALAZAR
DATE	11-10-94

SUBMITTED HAROLD SALAZAR

APPROVED FOR RELEASE BY LARRY BAYS

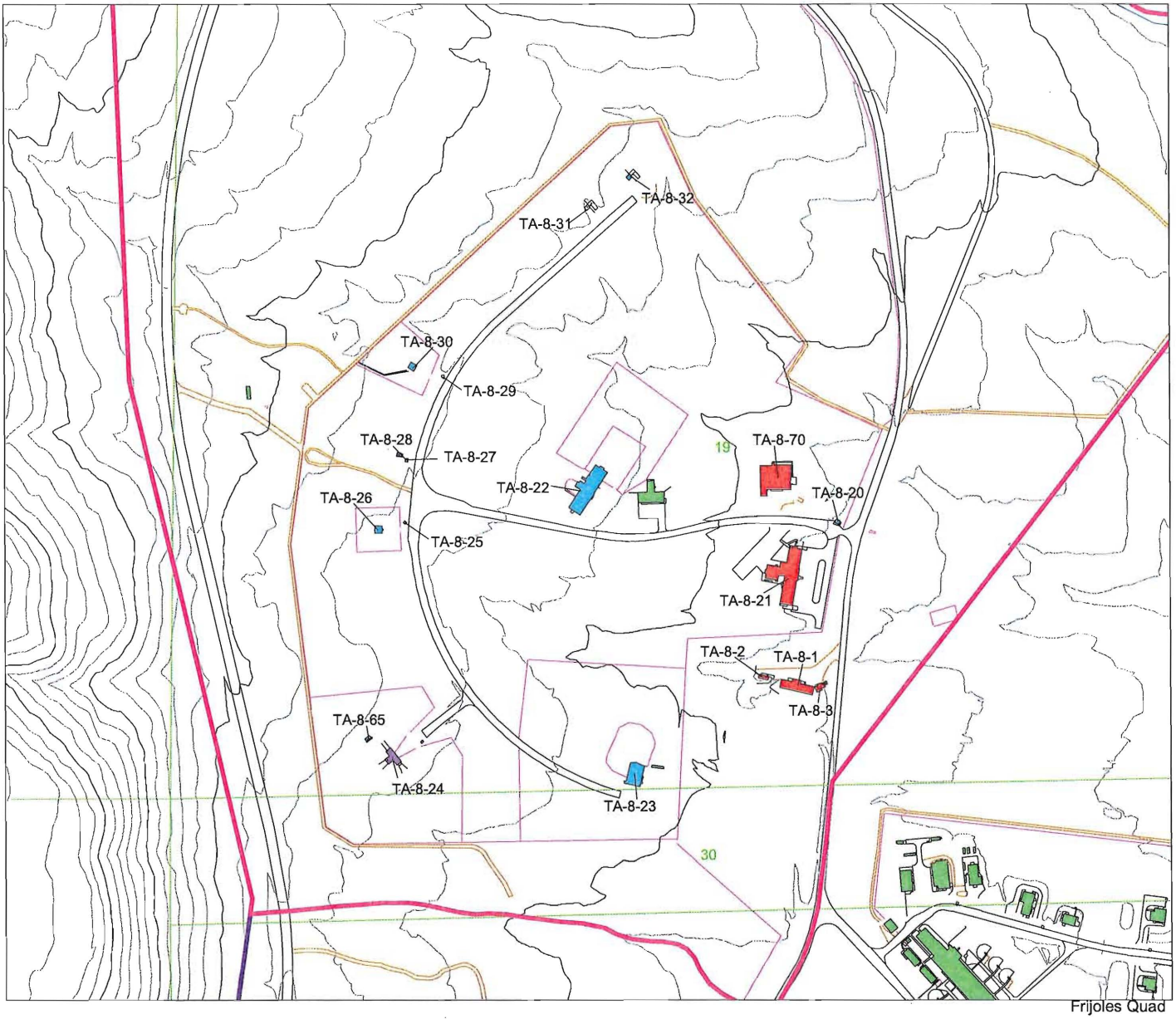
Los Alamos NATIONAL LABORATORY PO Box 1663 Los Alamos, New Mexico 87545

SHEET 2 of 2

CLASSIFICATION U REVIEWER H. SALAZAR DATE

PROJECT ID KSL NO. 91-020 11952

DRAWING NO AR16 REV. 3



Los Alamos
National Laboratory
Ecology and Air Quality Group
Environmental Protection Division

1:6500
200 0 200 400 600 Feet
90 0 90 180 Meters

N
W E
S

- Buildings Previosuly Declared Not Eligible - Removed
- Buildings Previously Declared Eligible - Removed
- Buildings Previously Declared Eligible
- Buildings Currently Being Evaluated
- Tech Area 8
- LANL Boundary
- Technical Areas
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- Lanl_contour1991_100_arc.shp
- Lanl_contour1991_020_arc.shp
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Fences
- Exempt Buildings/Structures

TA-8
Eligible, Not Eligible, and Removed Buildings

Map B-1

APPENDIX C

Interview Information

Interviews

Jackson, Frank M.
1992 Telephone conversation between Betty Harris and Frank M. Jackson. Copy on file at ENV-EAQ, Los Alamos National Laboratory, Los Alamos, New Mexico.

Graham, Alan
1992 Telephone conversation between Betty Harris and Alan Graham. Copy on file at ENV-EAQ, Los Alamos National Laboratory, Los Alamos, New Mexico.

APPENDIX D

List of Drawings on File at LANL for Buildings 8-21, 8-24, and 8-28

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
8	21	AB	226	1	0		05-APR-94	13-JAN-94	7556	A	AS-BUILT RECORD FLOOR PLAN EXPLOSIVES TECHNOLOGY AND APPLICATIONS, BASEMENT FLOOR PLAN
8	21	AB	226	1	0		05-APR-94	13-JAN-94	7556	A	EXPLOSIVES TECHNOLOGY AND APPLICATIONS, BASEMENT FLOOR PLAN
8	21	AB	226	1	2		29-APR-98	25-SEP-97	7556	A	AS-BUILT RECORD FLOOR PLAN EXPLOSIVES TECHNOLOGY AND APPLICATIONS, BASEMENT FLOOR PLAN
8	21	AB	226	2	1		27-SEP-96	13-JAN-94	7556	A	AS-BUILT RECORD FLOOR PLAN EXPLOSIVES TECHNOLOGY AND APPLICATIONS, FIRST FLOOR PLAN
8	21	AB	226	2	2		29-APR-98	25-SEP-97	7556	A	AS-BUILT RECORD FLOOR PLAN EXPLOSIVES TECHNOLOGY AND APPLICATIONS, FIRST FLOOR PLAN
8	21	C	1033	1	2		05-OCT-50	05-OCT-50	685	C	GUARD RAIL AROUND PARKING AREA WEST, EXISTING BLDG. 88 (FUTURE AW-21). PLOT PLAN & DETAILS
8	21	C	2540	1	3		30-DEC-51	30-NOV-51	1016	M	REFRIGERATION OF PROCESS WATER, BLDG. AW-21 PLAN & PIPING LAYOUT
8	21	C	2541	2	3		30-DEC-51	30-NOV-51	1016	E	REFRIGERATION OF PROCESSING WATER, BLDG. AW-21 ELECTRICAL
8	21	C	2928	1	2				1360	E	ADDITIONAL PARTITIONS, BLDG. AW-21, ARCH. - PLAN - DETAILS - ELECTRICAL PLAN
8	21	C	12459	1	4		11-JUN-53	10-OCT-49	200	T	BUILDINGS & RELATED SERVICES, PROJECT "B", TITLE SHEET & INDEX OF DRAWINGS
8	21	C	12463	5	6		11-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, GRADING PLAN
											BUILDINGS & RELATED SERVICES,

8	21	C	12481	23	7	11-JUN-53	22-MAY-57	200	A	PROJECT "B", ARCH., FIRST FLOOR PLAN
8	21	C	12482	24	6	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., BASEMENT PLAN
8	21	C	12483	25	5	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., ROOF PLAN & DETAILS
8	21	C	12484	26	4	11-JUN-35	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., ELEVATIONS
8	21	C	12485	27	4	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., ELEVATIONS
8	21	C	12486	28	4	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., EXTERIOR DETAILS
8	21	C	12487	29	4	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., LONGITUDINAL SECTION
8	21	C	12488	30	5	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., TRANSVERSE SECTIONS
8	21	C	12489	31	5	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., BASEMENT CEILING PLAN AND DETAILS
8	21	C	12490	32	5	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., FIRST FLOOR CEILING PLAN
8	21	C	12491	33	7	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., INTERIOR DETAILS, PARTIAL FIRST FLOOR PLAN, SECTIONS
8	21	C	12492	34	6	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., INTERIOR DETAILS, CEILING FRAMING PLAN, SHOWER PLAN
8	21	C	12493	35	4	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., DOOR DETAILS

8	21	C	12494	36	4	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., DOOR & WINDOW DETAILS
8	21	C	12495	37	16	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., DOOR & WINDOW TYPE & SCHEDULE
8	21	C	12496	38	3	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., EQUIPMENT LAYOUT
8	21	C	12497	39	3	11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., DETAILS OF STAIR & LOBBY
8	21	C	12498	40	3	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, FOUNDATION & BASEMENT PLAN, FOOTING & COLUNM SCHEDULES
8	21	C	12499	41	4	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, FIRST FLOOR PLAN, SOUTH HALF & SECTIONS
8	21	C	12500	42	4	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, FIRST FLOOR PLAN, NORTH HALF SECTION & DETAILS
8	21	C	12501	43	4	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, ROOF PLAN
8	21	C	12502	44	4	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, ROOF PLAN
8	21	C	12503	45	4	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, SECTIONS
8	21	C	12504	46	3	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, MISCELLANEOUS DETAILS, WALL FOOTINGS, STAIRWAY DETAIL

8	21	C	12505	47	3	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, MISCELLANEOUS DETAILS, STACK FOUNDATION, DOCK ROOF
8	21	C	12506	48	3	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, PIPE SLEEVE LAYOUT, FIRST FLOOR SOUTH
8	21	C	12507	49	3	11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, PIPE SLEEVE LAYOUT FIRST FLOOR NO.
8	21	C	12519	60	5	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, SOUTH PORTION BASEMENT FLOOR PLAN, WIRING DIAGRAM
8	21	C	12520	61	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, NORTH PORTION BASEMENT FLOOR PLAN, MATERIAL LIST AND NOTES
8	21	C	12521	62	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, RMS. 117 & 122 - 130
8	21	C	12522	63	5	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, ROOMS 107 THRU 113, & 131
8	21	C	12523	64	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, ROOMS 104 & 118
8	21	C	12524	65	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, ROOMS 101, 102, 103, 105, 106
8	21	C	12525	66	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, ROOMS 114, 116, 119, 121
8	21	C	12526	67	5	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., DETAILS, WIRING DIAGRAM, LIGHTNING & GROUNDING PROTECTION

8	21	C	12531	72	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., PAGING SYSTEM, FLOOR PLAN LAYOUT, SPEAKER SCHEDULE
8	21	C	12538	79	4	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., RADIANT HEATING LAYOUT, BASEMENT, BOILER PIPING PLAN
8	21	C	12539	80	4	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., RADIANT HEATING LAYOUT, FIRST FLOOR, SCHEMATIC CONTROL DIAGRAM
8	21	C	12540	81	5	12-JUN-53	22-MAY-57	200	AC	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., AIR CONDITIONING LAYOUT, BASEMENT, ISOMETRIC VIEW
8	21	C	12541	82	3	12-JUN-53	22-MAY-57	200	AC	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., AIR CONDITIONING LAYOUT FIRST FLOOR, ISOMETRIC VIEW
8	21	C	12542	83	3	12-JUN-53	22-MAY-57	200	AC	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., AIR CONDITIONING DETAILS, SCHEMATIC CONTROL DIAGRAM
8	21	C	12543	84	3	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., VENTILATION LAYOUT, ISOMETRIC VIEW, ROOF & WALL FAN
8	21	C	12544	85	4	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., PLUMBING LAYOUT, BASEMENT, SCHEMATIC DIAGRAM
8	21	C	12545	86	4	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., PLUMBING LAYOUT, FLOOR PLAN, SCHEMATIC PIPING
										BUILDINGS & RELATED SERVICES,

8	21	C	12546	87	4	12-JUN-53	22-MAY-57	200	M	PROJECT "B", MECH., PLUMBING DETAILS FLOOR PLANS
8	21	C	12547	88	3	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., PLUMBING DETAILS FLOOR PLANS, ISOMETRIC OF WASTE AND VENT LINES
8	21	C	12548	89	3	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., PLUMBING DETAILS, ISOMETRIC WATER PIPING
8	21	C	12555	96	4	12-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, PLAN, PROFILE, WATER, GAS, DRAINS & SEWER
8	21	C	12573	1	5	12-JUN-53	29-MAY-51	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., FIRST FLOOR, ALTERATIONS TO EXISTING RADIANT HEATING, EXPANSION TANK DETAIL
8	21	C	12574	2	4	12-JUN-53	29-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., BASEMENT PLAN, ALTERATIONS TO SERVICE PIPING, SCHEMATIC CONTROL DIAGRAM
8	21	C	12575	3	4	12-JUN-53	28-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., RECOMMENDED ADDITIONS DUCT LAYOUT, FIRST FLOOR PLAN, SCHEMATIC CONTROL DIAGRAM,
8	21	C	12576	4	5	12-JUN-53	29-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., ALTERATIONS TO AIR CONDITIONING SYSTEM PARTIAL PLAN, SCHEMATIC CONTROL DIAGRAM, STORAGE TANK
8	21	C	12577	1	0	15-AUG-56	08-SEP-56	1864	M	HOOD INSTALLATION, BRANCH SHOP, MECH., BASEMENT PLAN, DETAIL, AND EQUIPMENT LIST
8	21	C	12578	2	0	15-AUG-56	08-SEP-56	1864	M	HOOD INSTALLATION, BRANCH SHOP, MECH., SECTIONS & DETAILS
										HOOD INSTALLATION, BRANCH SHOP, ELEC., PARTIAL PLAN & DETAILS,

8	21	C	12579	3	0	15-AUG-56	08-SEP-56	1864	E	WIRING DIAGRAM, BILL OF MATERIAL & NOTES
8	21	C	14847	1	0	27-AUG-57	08-AUG-49	0	A	SCHEMATIC DRAWING, BLDG. #88, AW-21, PHASE B, BASEMENT PLAN
8	21	C	14848	1	0	27-AUG-57	08-AUG-49	0	A	SCHEMATIC DRAWING, BLDG. #8, AW-21, FIRST FLOOR PLAN
8	21	C	18884	1	0	21-FEB-58		2099	UN	ALTERATIONS ROOM B-2, BLDG. 21 - MONORAIL DETAILS
8	21	C	22775	1	0	17-OCT-60		2464	M	FUME HOOD MODIFICATIONS, ROOMS 115, 117, BLDG. AW-21 - MECHANICAL - ELECTRICAL,
8	21	C	23692	1	0	21-SEP-60		2449	AC	VENTIALTION INSTALLATION, BLDG. AW-21, RM. 113, MECHANICAL & ELECTRICAL PLAN SEC
8	21	C	26376	1	0	20-FEB-63		2762	AC	VENTILATION MODS., FALLOUT SHELTER, BLDG. AW-21, PLAN, SECTIONS, DETAILS & NOTES
8	21	C	26377	2	0	20-FEB-63		2762	AC	VENTILATION MODS., FALLOUT SHELTER, BLDG. AW-21, SECTIONS, ELEVATIONS, DETAILS &
8	21	C	26378	3	0	20-FEB-63		2762	AC	VENTILATION MODS., FALLOUT SHELTER, BLDG. AW-21, SEC., ELEC. PLAN, SINGLE LINE D
8	21	C	27215	1	0	01-JUN-62		2736	M	HEATING MODIFICATIONS, BLDG. AW-21, MECHANICAL - 1ST FLOOR PLAN
8	21	C	27216	2	0	01-JUN-62		2736	M	HEATING MODIFICATIONS, BLDG. AW-21, MECHANICAL - BSMT. PLAN
8	21	C	27726	1	0	28-SEP-67		3208	AC	AIR CONDITIONING MODIFICATIONS, BLDG. AW-21, MECHANICAL COMPRESSOR REPLACE
8	21	C	29096	1	0	29-JUL-65		3208	AC	AIR CONDITIONING MODIFICATIONS, BLDG. AW-21 - MECHANICAL - PLAN & DETAILS
8	21	C	29097	2	0	29-JUL-65		3208	M	MECHANICAL - PLAN, ELEVATION, SECTIONS & DIAGRAM

8	21	C	29098	3	0	29-JUL-65		3208	M	MECHANICAL - DATA FLOW DIAGRAM
8	21	C	29099	4	0	29-JUL-65		3208	M	MECHANICAL - DIAGRAM, NOTES, & BILL OF MATERIAL
8	21	C	29100	5	0	29-JUL-65		3208	E	ELECTRICAL
8	21	C	36616	1	1	12-JUN-68		3843	S	SIDEWALK & STAIR MODIFICATION, BLDG. AW-21, STRUCTURAL; PLOT PLAN, DETAILS & EL
8	21	C	38084	1	0	28-JAN-70		4175	S	MODIFICATIONS ROOM B-2 BLDG. AW-21 - STRUCTURE; PLAN, NOTES AND DETAILS
8	21	C	38085	2	0	28-JAN-70		4175	M	MECHANICAL; PLAN, SECTION, NOTES
8	21	C	38086	3	0	28-JAN-70		4175	E	ELECTRICAL
8	21	C	39569	1	1	05-MAR-71		4550	M	REFRIGERATION EQUIPMENT REPLACEMENT, AW-21 - MECHANICAL; PLAN, DETAILS & PIPING
8	21	C	39570	2	1	05-MAR-71		4550	M	MECHANICAL - EQUIPMENT LIST AND NOTES
8	21	C	39571	3	1	05-MAR-71		4550	E	ELECTRICAL
8	21	C	43780	1	1	06-FEB-80	07-JUN-84	6447	AC	COMPUTER FACILITY AIR CONDITIONING, MECH; LOCATION PLAN AND FLOOR PLAN
8	21	C	43780	1	1	06-FEB-80	07-JUN-84	6447	M	COMPUTER FACILITY AIR CONDITIONING, MECH; LOCATION PLAN AND FLOOR PLAN
8	21	C	43780	2	1	06-FEB-80	07-JUN-84	6447	M	COMPUTER FACILITY AIR CONDITIONING, MECH; PIPING ISOMETRICS
8	21	C	43780	3	1	06-FEB-80	07-JUN-84	6447	E	COMPUTER FACILITY AIR CONDITIONING, MECH; & ELEC; EQUIPMENT LIST, NOTES AND NAMEPLATE SCHEDULE
8	21	C	43780	3	1	06-FEB-80	07-JUN-84	6447	M	COMPUTER FACILITY AIR CONDITIONING, MECH; & ELEC; EQUIPMENT LIST, NOTES AND NAMEPLATE SCHEDULE

8	21	C	43802	1	1	26-SEP-80		6475	E	COMPUTER FACILITY SITE PREPARATION BLDG. AW-21 TA-8 ELEC; DATA PROCESSING EQUI
8	21	C	43802	2	1	26-SEP-80		6475	E	ELEC; DETAIL CABLE SCHEDULE AND CONNECTION DETAILS
8	21	C	43810	1	0	29-MAY-80		6490	E	PROTECTED WIRELINE SYSTEM BLDG. AW-21 TA-8 ELEC; NAMEPLATE/SCHEDULE/NOTES/INDEX
8	21	C	43810	2	0	29-MAY-80		6490	E	ELEC; BLDG. AW-21 FLOOR PLANS
8	21	C	43810	3	0	29-MAY-80		6490	E	ELEC; DETAILS, ELEVATIONS, AND SECTION
8	21	C	43956	1	0			6475	E	COMPUTER FACILITY SITE PREPARATION BLDG. AW-21 TA-8 ELEC; PARTIAL FLOOR PLANS
8	21	C	43956	2	0			6475	E	ELEC; DETAILS ELEVATION AND WIRING DIAGRAMS
8	21	C	43956	3	0			6475	E	ELEC; PANEL SCHEDULES "PP-A" AND "PP-B"
8	21	C	43956	4	0			6475	E	ELEC; WIRING DIAGRAMS, PANEL "LP-32" SCHEDULE AND NAMEPLATES
8	21	C	43957	1	0	18-SEP-81	14-SEP-81	6764	T	COMPUTER FACILITY EXPANSION BLDG. AW-21 TA-8 TITLE SHEET, LOCATION PLAN AND IND
8	21	C	43957	2	0	19-SEP-81	14-SEP-81	6764	E	COMPUTER FAC., EXPANSION, ELEC; BILL OF MATERIAL, SCOPE OF WORK AND NOTES
8	21	C	43957	3	0	18-SEP-81	14-SEP-81	6764	E	COMPUTER FAC. EXPANSION, ELEC; ONE LINE DIAGRAM
8	21	C	43957	4	0	18-SEP-81	14-SEP-81	6764	E	COMPUTER FAC, EXPANSION, ELEC; DATA PROCESSING EQUIPMENT LAYOUT
8	21	C	43957	5	0	18-SEP-81	14-SEP-81	6764	E	CIMPUTER FAC, EXPANSION, ELEC; DETAILS
8	21	C	43957	6	0	18-SEP-81	14-SEP-81	6764	E	COMPUTER FAC, EXPANSION, ELEC; PANEL "LC-1" "LC-2" AND "LP-34"

										SCHEDULES
8	21	C	43957	7	0	18-SEP-81	14-SEP-81	6764	E	COMPUTER FAC. EXPANSION, ELEC; PANEL "LC-1" DETAIL CONDUIT SCHEDULE
8	21	C	43957	8	0	18-SEP-81	14-SEP-81	6764	E	COMPUTER FAC. EXPANSION, ELEC; PANEL "LC-2" DETAIL CONDUIT SCHEDULE
8	21	C	43957	9	0	18-SEP-81	14-SEP-81	6764	E	COMPUTER FAC. EXPANSION, ELEC; NAMEPLATE SCHEDULE
8	21	C	43990	1	0	28-JAN-82	25-JAN-82	6719	AC	VENTILATION SYSTEM INSTALLATION, TITLE SHEET & INDEX TO DRAWINGS
8	21	C	43990	2	0	28-JAN-82	25-JAN-82	6719	UN	VENTILATION SYSTEM INSTALLATION, GEN; SUBMITTALS SHEET
8	21	C	43990	3	0	28-JAN-82	25-JAN-82	6719	A	VENTILATION SYSTEM INSTALLATION, CIVIL; PARTIAL ROOF PLAN & NOTES
8	21	C	43990	3	0	28-JAN-82	25-JAN-82	6719	C	VENTILATION SYSTEM INSTALLATION, CIVIL; PARTIAL ROOF PLAN & NOTES
8	21	C	43990	4	0	28-JAN-82	25-JAN-82	6719	M	VENTILATION SYSTEM INSTALLATION, MECH; FAN SUPPORT DETAIL, PLAN, STACK ANCHOR DETAIL, DUCT SUPPORT & BASE PLATE DETAIL
8	21	C	43990	5	0	28-JAN-82	25-JAN-82	6719	M	VENTILATION SYSTEM INSTALLATION, MECH; PARTIAL FIRST FLOOR PLANS & ELEVATIONS
8	21	C	43990	6	0	28-JAN-82	25-JAN-82	6719	M	VENTILATION SYSTEM INSTALLATION, MECH; SECTIONS, HOOD DETAIL, ELEVATION
8	21	C	43990	7	0	28-JAN-82	25-JAN-82	6719	M	VENTILATION SYSTEM INSTALLATION, MECH; NOTES, EQUIPMENT LIST, ELEVATION & BRACKET DETAIL

8	21	C	43990	8	0	28-JAN-82	25-JAN-82	6719	E	VENTILATION SYSTEM INSTALLATION, ELEC; PARTIAL ROOF & FIRST FLOOR PLAN & NOTES
8	21	C	43990	9	0	28-JAN-82	25-JAN-82	6719	E	VENTILATION SYSTEM INSTALLATION, ELEC; SCHEMATIC DIAGRAM
8	21	C	43990	10	0	28-JAN-82	25-JAN-82	6719	E	VENTILATION SYSTEM INSTALLATION, ELEC; BILL OF MATERIAL, NAMEPLATE SCHEDULE & NOTES
8	21	C	44144	1	0	10-FEB-83	01-DEC-82	7065	T	ROOM 103 VENTILATION, TITLE SHEET & INDEX OF DRAWINGS
8	21	C	44144	2	0	10-FEB-83	01-DEC-82	7065	G	ROOM 103 VENTILATION, GEN., SUBMITTAL LIST
8	21	C	44144	3	0	10-FEB-83	01-DEC-82	7065	M	ROOM 103 VENTILATION, MECH., PARTIAL FIRST FLOOR PLAN & CONTROL SCHEMATIC
8	21	C	44144	4	0	10-FEB-83	01-DEC-82	7065	M	ROOM 103 VENTILATION, MECH., PARTIAL BASEMENT PLAN
8	21	C	44144	5	0	10-FEB-83	01-DEC-82	7065	M	ROOM 103 VENTILATION, MECH., PARTIAL ROOF PLAN, SECTIONS & DETAILS
8	21	C	44144	6	0	10-FEB-83	01-DEC-82	7065	M	ROOM 103 VENTILATION, MECH., PIPING ISOMETRIC
8	21	C	44144	7	0	10-FEB-83	01-DEC-82	7065	M	ROOM 103 VENTILATION, MECH., EQUIPMENT LIST & NOTES
8	21	C	44144	8	0	10-FEB-83	01-DEC-82	7065	E	ROOM 103 VENTILATION, ELEC., PARTIAL BASEMENT & FIRST FLOOR PLAN & SUPPLY FAN ELEMENTARY DIAGRAM
8	21	C	44144	9	0	10-FEB-83	01-DEC-82	7065	E	ROOM 103 VENTILATION, ELEC., NOTES, BILL OF MATERIAL & NAMEPLATE SCHEDULE
8	21	C	44166	1	0	04-OCT-83		7234	E	UPGRADE ELECTRICAL DIST. SYSTEM, BLDG. AW-21 & 22, TA-8. TITLE SHEET, LOC. PLAN

8	21	C	44166	2	0	04-OCT-83	7234	E	ELEC; SCOPE OF WORK AND NOTES
8	21	C	44166	3	0	04-OCT-83	7234	E	ELEC; ONE LINE DIAGRAM, BLDG. AW-21
8	21	C	44166	5	0	04-OCT-83	7234	E	ELEC; BLDG. AW-21 POWER LAYOUTS
8	21	C	44166	6	0	04-OCT-83	7234	E	ELEC; BLDG. AW-21 POWER LAYOUT NOTES
8	21	C	44166	8	0	04-OCT-83	7234	E	ELEC; PANELS "PP-A" AND "PP-B" SCHEDULES BLDG. AW-21
8	21	C	44166	9	0	04-OCT-83	7234	E	ELEC; PANELS "LP-1" AND "LP-2" SCHEDULES
8	21	C	44166	10	0	04-OCT-83	7234	E	ELEC; PANELS "PP-1" AND "PP-2" SCHEDULES , BLDG. AW-21
8	21	C	44166	11	0	04-OCT-83	7234	E	ELEC; PANELS "LP-3" "LP-4" AND "LP-5" SCHEDULES, BLDG. AW-21
8	21	C	44166	12	0	04-OCT-83	7234	E	ELEC; PANELS "LP-6" "LP-7" AND "LP-8" SCHEDULES, BLDG. AW-21
8	21	C	44166	13	0	04-OCT-83	7234	E	ELEC; PANELS "LP-9" "LP-10" AND "LP-11" SCHEDULES, BLDG. AW-21
8	21	C	44166	14	0	04-OCT-83	7234	E	ELEC; PANEL "LP-12" SCHEDULE, BLDG. AW-21
8	21	C	44166	15	0	04-OCT-83	7234	E	ELEC; PANELS "LP-13" "LP-14" AND "LP-15" SCHEDULES, BLDG. AW-21
8	21	C	44166	16	0	04-OCT-83	7234	E	ELEC; PANELS "LP-16" "LP-17" AND "LP-18" SCHEDULES, BLDG. AW-21
8	21	C	44166	17	0	04-OCT-83	7234	E	ELEC; PANELS "LP-19" "LP-20" AND "LP-21" SCHEDULES, BLDG. AW-21
8	21	C	44166	18	0	04-OCT-83	7234	E	ELEC; PANEL "LP-22" "LP-24" AND "LP-25" SCHEDULES, BLDG. AW-21
8	21	C	44166	19	0	04-OCT-83	7234	E	ELEC; PANELS "LP-26" "LP-27" AND "LP-28" SCHEDULES, BLDG. AW-21
8	21	C	44166	20	0	04-OCT-83	7234	E	ELEC; PANELS "LP-29" "LP-30" AND "LP-31" SCHEDULES, BLDG. AW-21
8	21	C	44166	21	0	04-OCT-83	7234	E	ELEC; PANELS "LP-32" AND "LP-33" SCHEDULES, BLDG. AW021

8	21	C	44166	27	0	04-OCT-83		7234	E	ELEC; CABLE AND CONDUIT SCHEDULE
8	21	C	44166	28	0	04-OCT-83		7234	E	ELEC; PANELBOARDS BILL OF MATERIAL
8	21	C	44166	29	0	04-OCT-83		7234	E	ELEC; NAMEPLATE SCHEDULE
8	21	C	44168	1	0	11-AUG-83		7236	UN	COMPRESSED AIR DRYER INSTALLATIONS, BLDGS. AW-21, 23, & 70, TA-8 (PHASE A) COVER
8	21	C	44168	2	0	11-AUG-83		7236	M	MECHANICAL ELECTRICAL AIR DRYER INSTALLATION; SPECIFICATIONS
8	21	C	44168	3	0	11-AUG-83		7236	M	MECHANICAL ELECTRICAL COMPRESSED AIR DRYER INSTALLATION, BLDG. AW-21
8	21	C	44168	6	0	11-AUG-83		7236	M	MECHANICAL ELECTRICAL AIR DRYER INSTALLATIONS, SUMMARY EQUIPMENT LIST, BLDG. AW-
8	21	C	44275	1	0	05-MAR-84	17-FEB-84	7414	T	PHOTO LAB MODIFICATION, TITLE SHEET, LOCATION PLAN AND INDEX OF DRAWINGS
8	21	C	44275	2	0	05-MAR-84	17-FEB-84	7414	G	PHOTO LAB MODIFICATION, GEN; SUBMITTALS
8	21	C	44275	3	0	05-MAR-84	17-FEB-84	7414	C	PHOTO LAB MODIFICATION, CIVIL; GEN NOTES
8	21	C	44275	4	0	05-MAR-84	17-FEB-84	7414	A	PHOTO LAB MODIFICATION, ARCH; FIRST FLOOR PLAN, DOOR SCHEDULE, SECTIONS AND DETAILS
8	21	C	44275	5	0	05-MAR-84	17-FEB-84	7414	S	PHOTO LAB MODIFICATION, STRUCT; ROOF PLAN, DETAILS AND SECTIONS
8	21	C	44275	6	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; REMOVAL PLAN AND LEGEND
8	21	C	44275	7	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; ROOF PLAN AND SECTIONS
8	21	C	44275	8	0	05-MAR-84	17-FEB-84	7414	AC	PHOTO LAB MODIFICATION, MECH; HVAC PLAN FIRST FLOOR
8	21	C	44275	8	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH;

									HVAC PLAN FIRST FLOOR
8	21	C	44275	9	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; SECTIONS AND DETAILS
8	21	C	44275	10	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; HVAC BASEMENT PLAN SECTION AND CONTROL DIAGRAM
8	21	C	44275	11	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; PIPING PLAN, ISOMETRICS AND SECTION
8	21	C	44275	12	0	05-MAR-84	17-FEB-84	7414	F	PHOTO LAB MODIFICATION, MECH; PIPING PLAN ROOM 127, PIPING ISOMETRIC AND FIRE PROTECTION PIPING PLAN
8	21	C	44275	12	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; PIPING PLAN ROOM 127, PIPING ISOMETRIC AND FIRE PROTECTION PIPING PLAN
8	21	C	44275	13	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; EQUIPMENT LIST
8	21	C	44275	14	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; NOTES
8	21	C	44275	15	0	05-MAR-84	17-FEB-84	7414	M	PHOTO LAB MODIFICATION, MECH; NOTES AND CONTROL SYSTEM
8	21	C	44275	16	0	05-MAR-84	17-FEB-84	7414	E	PHOTO LAB MODIFICATION, ELEC; LIGHTING PLAN, LIGHTNING PROTECTION SYSTEM AND CONTROL DIAGRAM
8	21	C	44275	17	0	05-MAR-84	17-FEB-84	7414	E	PHOTO LAB MODIFICATION, ELEC; BASEMENT PLAN, FIRST FLOOR POWER PLAN AND LEGEND
8	21	C	44275	18	0	05-MAR-84	17-FEB-84	7414	E	PHOTO LAB MODIFICATION, ELEC; CONTROL DIAGRAMS AND LEGEND, POWER AND CONTROL SCHEMATIC
8	21	C	44275	19	0	05-MAR-84	17-FEB-84	7414	E	PHOTO LAB MODIFICATION, ELEC; BILL OF MATERIAL, NOTES AND NAMEPLATES SCHEDULE

8	21	C	44446	1	0
8	21	C	44446	1	0
8	21	C	44446	2	0
8	21	C	44732	1	0
8	21	C	44732	2	0
8	21	C	46371	1	0
8	21	C	46443	1	0
8	21	C	46443	2	0
8	21	C	46443	3	0
8	21	C	46461	20	0
8	21	C	46461	20	1
8	21	C	48324	1	1
8	21	C	48513	4	0

13-AUG-84	06-JUL-84	7698	C	FIBER OPTIC CABLE INSTALLATION, ELEC; POWER PLOT PLAN
13-AUG-84	06-JUL-84	7698	E	FIBER OPTIC CABLE INSTALLATION, ELEC; POWER PLOT PLAN
13-AUG-84	06-JUL-84	7698	E	FIBER OPTIC CABLE INSTALLATION, ELEC; PARTIAL PLAN FIRST FLOOR LAYOUT, NOTES AND TRENCH SECTION
29-MAR-82		6039	F	FIRE PROTECTION IMPROVEMENTS PACKAGE V, 1979, BLDG. 21 FIRST FLOOR PLAN (AS-BU
29-MAR-82		6039	UN	BASEMENT PLAN
23-SEP-92	04-SEP-92	13504	A	DESIGN HANDICAP ACCESS RAMP, ARCH; FLOOR PLAN, SECTIONS, ELEVATIONS AND DETAILS
04-JAN-93	11-DEC-92	13792	E	LIGHTING AT TA-08-21, ELEC; NOTES, SCOPE OF WORK AND LIST OF MATERIAL
04-JAN-93	11-DEC-92	13792	E	LIGHTING AT TA-08-21, ELEC; REMOVAL LIGHTING PLAN
04-JAN-93	11-DEC-92	13792	E	LIGHTING AT TA-08-21, ELEC; PARTIAL LIGHTING PLAN
28-JUL-05	15-MAR-95	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
30-APR-07	01-JAN-97	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
30-NOV-92		0	C	TA-8-21 GAS LINE REPLACEMENT PLANS & DETAILS (AS-BUILT)
12-DEC-92	02-APR-80		A	TECH AREA RE-ROOFING FY-80, ARCH., ROOF PLAN EXISTING FEATURES, SITE PLAN, ELEVATIONS & LEGEND
				TECH AREA RE-ROOFING FY-80, ARCH.,

8	21	C	48513	4	0
8	21	C	49730	1	0
8	21	C	49730	1	1
8	21	C	49730	2	0
8	21	C	49730	2	1
8	21	C	49730	3	0
8	21	C	49730	3	1
8	21	C	49730	4	0
8	21	C	49730	4	1
8	21	C	49730	5	0
8	21	C	49730	5	1
8	21	C	49730	6	0
8	21	C	49730	6	1
8	21	C	49730	7	0
8	21	C	49730	7	1
8	21	C	49730	8	0

12-DEC-92	02-APR-80		C	ROOF PLAN EXISTING FEATURES, SITE PLAN, ELEVATIONS & LEGEND
19-JUL-95	30-JUN-95	16372	T	INTERIOR MODIFICATIONS, TITLE SHEET AND LIST OF DRAWINGS
04-MAR-97	01-MAR-96	16372	T	INTERIOR MODIFICATIONS, TITLE SHEET AND LIST OF DRAWINGS
19-JUL-95	30-JUN-95	16372	A	INTERIOR MODIFICATIONS, ARCH., FLOOR PLAN AND FINISH SCEDULE
04-MAR-97	01-MAR-96	16372	A	INTERIOR MODIFICATIONS, ARCH., FLOOR PLAN AND FINISH SCHEDULE
19-JUL-95	30-JUN-95	16372	A	INTERIOR MODIFICATIONS, ARCH., EXTERIOR ELEVATIONS AND WALL SECTION
04-MAR-97	01-MAR-96	16372	A	INTERIOR MODIFICATIONS, ARCH., EXTERIOR ELEVATIONS AND WALL SECTION
19-JUL-95	30-JUN-95	16372	A	INTERIOR MODIFICATIONS, ARCH., INTERIOR ELEVATIONS AND DETAILS
04-MAR-97	01-MAR-96	16372	A	INTERIOR MODIFICATIONS, ARCH., INTERIOR ELEVATIONS AND DETAILS
19-JUL-95	30-JUN-95	16372	A	INTERIOR MODIFICATIONS, ARCH., SYSTEMS FURNITURE & DETAILS
04-MAR-97	01-MAR-96	16372	A	INTERIOR MODIFICATIONS, ARCH., SYSTEMS FURNITURE AND DETAILS
19-JUL-95	30-JUN-95	16372	M	INTERIOR MODIFICATIONS, MECH., DEMOLITION PLANS AND LEGEND
04-MAR-97	01-MAR-96	16372	M	INTERIOR MODIFICATIONS, MECH., DEMOLITION PLANS AND LEGEND
19-JUL-95	30-JUN-95	16372	M	INTERIOR MODIFICATIONS, MECH., HVAC AND PLUMBING PLANS AND DETAILS
04-MAR-97	01-MAR-96	16372	M	INTERIOR MODIFICATIONS, MECH., HVAC PLUMBING PLANS & DETAILS
19-JUL-95	30-JUN-95	16372	M	INTERIOR MODIFICATIONS, MECH., EQUIPMENT SCHEDULES, RISER

									DIAGRAMS AND SEQUENCE OF OPERATIONS
8	21	C	49730	8	1	05-MAR-97	01-MAR-96	16372	M	INTERIOR MODIFICATIONS, MECH., EQUIPMENT SCHEDULE, RISER DIAGRAMS & SEQUENCE OF OPERATIONS
8	21	C	49730	9	0	19-JUL-95	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., LEGEND, NOTES AND SCOPE OF WORK
8	21	C	49730	9	1	05-MAR-97	01-MAR-96	16372	E	INTERIOR MODIFICATIONS, ELEC., LEGEND, NOTES AND SCOPE OF WORK
8	21	C	49730	10	0	19-JUL-95	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., FIRST & BASEMENT POWER PLAN AND SPECIAL SYSTEMS PLANS
8	21	C	49730	10	1	05-MAR-97	01-MAR-96	16372	E	INTERIOR MODIFICATIONS, ELEC., FIRST & BASEMENT POWER PLAN AND SPECIAL SYSTEMS PLANS
8	21	C	49730	11	0	19-JUL-95	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., LIGHTING AND REFLECTED CEILING PLAN, SWITCH CONNECTION DETAIL
8	21	C	49730	11	1	05-MAR-97	01-MAR-96	16372	E	INTERIOR MODIFICATIONS, ELEC., LIGHTING AND REFLECTED CEILING PLAN, SWITCH CONNECTION DETAIL
8	21	C	49730	12	0	19-JUL-95	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., SPECIAL SYSTEMS AND PARTIAL TELEPHONE, FIRE ALARM, DATA RISER DIAGRAMS
8	21	C	49730	12	1	05-MAR-97	01-MAR-96	16372	E	INTERIOR MODIFICATIONS, ELEC., SPECIAL SYSTEMS AND PARTIAL TELEPHONE, FIRE ALARM, DATA RISER DIAGRAMS
8	21	C	49730	13	0	19-JUL-95	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., ONE LINE DIAGRAM AND SCHEDULES, CONTROL LADDER DIAGRAM
8	21	C	49730	13	1	05-MAR-97	01-MAR-96	16372	E	INTERIOR MODIFICATIONS, ELEC., ONE LINE DIAGRAM AND SCHEDULES, CONTROL LADDER DIAGRAM

8	21	C	49730	14	0	05-FEB-97	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., FIRE PROTECTION SPRINKLER PLAN AND LEGEND
8	21	C	49730	14	0	05-FEB-97	30-JUN-95	16372	F	INTERIOR MODIFICATIONS, ELEC., FIRE PROTECTION SPRINKLER PLAN AND LEGEND
8	21	C	49730	14	1	05-MAR-97	30-JUN-95	16372	E	INTERIOR MODIFICATIONS, ELEC., FIRE PROTECTION AND SPRINKLER PLAN AND LEGEND
8	21	C	49730	14	1	05-MAR-97	30-JUN-95	16372	F	INTERIOR MODIFICATIONS, ELEC., FIRE PROTECTION AND SPRINKLER PLAN AND LEGEND
8	21	C	49874	1	0	17-JUN-99	25-NOV-96	16854	T	WASTE STREAM CORRECTION FMU#67, TITLE SHEET AND LIST OF DRAWINGS
8	21	C	49874	2	0	17-JUN-99	25-NOV-96	16854	G	WASTE STREAM CORRECTION FMU#67, GEN., LEGEND AND GENERAL NOTES
8	21	C	49874	3	0	17-JUN-99	25-NOV-96	16854	G	WASTE STREAM CORRECTION FMU#67, GEN., NOTES
8	21	C	49874	4	0	17-JUN-99	25-NOV-96	16854	G	WASTE STREAM CORRECTION FMU#67, GEN., NOTES AND SCOPE OF WORK
8	21	C	49874	6	0	17-JUN-99	25-NOV-96	16854	P	WASTE STREAM CORRECTION FMU#67, MECH., BASEMENT PARTIAL PLUMBING PLAN
8	21	C	49874	7	0	17-JUN-99	25-NOV-96	16854	P	WASTE STREAM CORRECTION FMU#67, MECH., PARTIAL BASEMENT PLUMBING PLAN
8	21	C	49874	10	0	17-JUN-99	25-NOV-96	16854	P	WASTE STREAM CORRECTION FMU#67, MECH., DETAILS, OIL SEPARATOR, FLOOR DRAIN PLUG, SANITARY SEWER & SEPTIC TANK PAINT STENCIL
8	21	C	49874	11	0	17-JUN-99	25-NOV-96	16854	P	WASTE STREAM CORRECTION FMU#67, MECH., SUMP PUMP DETAIL AND EQUIPMENT LIST
8	21	C	49874	12	0	17-JUN-99	25-NOV-96	16854	E	WASTE STREAM CORRECTION FMU#67, ELEC., LEGEND AND GENERAL NOTES
										WASTE STREAM CORRECTION FMU#67,

8	21	C	49874	13	0	17-JUN-99	25-NOV-96	16854	E	ELEC., BASEMENT PLAN, SCHEMATIC, BILL OF MATERIAL, NAMEPLATE SCHEDULE
8	21	C	49874	14	0	27-MAR-03	25-NOV-96	16854	M	WASTE STREAM CORRECTION FMU#67, MECH., CORRECTIVE ACTION SUMMARY
8	21	C	52268	1	0	16-JUL-02	09-SEP-99	19565	A	FIRE PROTECTION MODIFICATION, OFFICE UPGRADES, ARCH., REFLECTED CEILING PLAN
8	21	C	52268	2	0	16-JUL-02	09-SEP-99	19565	F	FIRE PROTECTION MODIFICATION, OFFICE UPGRADES, MECH., PARTIAL FLOOR PLAN, PIPING ISOMETRIC LEGEND AND FIRE PROTECTION NOTES
8	21	C	52268	2	0	16-JUL-02	09-SEP-99	19565	M	FIRE PROTECTION MODIFICATION, OFFICE UPGRADES, MECH., PARTIAL FLOOR PLAN, PIPING ISOMETRIC LEGEND AND FIRE PROTECTION NOTES
8	21	C	52268	3	0	16-JUL-02	09-SEP-99	19565	F	FIRE PROTECTION MODIFICATION, OFFICE UPGRADES, MECH., PARTIAL FLOOR PLAN, PIPING ISOMETRIC, LEGEND AND FIRE PROTECTION NOTES
8	21	C	52268	3	0	16-JUL-02	09-SEP-99	19565	M	FIRE PROTECTION MODIFICATION, OFFICE UPGRADES, MECH., PARTIAL FLOOR PLAN, PIPING ISOMETRIC, LEGEND AND FIRE PROTECTION NOTES
8	21	C	52268	4	0	16-JUL-02	09-SEP-99	19565	E	FIRE PROTECTION MODIFICATION, OFFICE UPGRADES, ELEC., LIGHTING PLAN
8	21	C	52634	1	0	03-MAY-01	27-APR-01	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM
8	21	C	52634	1	1	22-APR-04	02-APR-02	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE

											DIAGRAM
8	21	C	52634	1	2		31-JUL-03	02-JUN-03	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM MCC-A AND MCC-1
8	21	C	52634	2	0		03-MAY-01	27-APR-01	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM
8	21	C	52634	2	1		22-APR-04	02-APR-02	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM, BASEMENT FLOOR PLAN
8	21	C	52634	2	2		31-JUL-03	02-JUN-03	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM
8	21	C	52634	3	0		03-MAY-01	27-APR-01	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM
8	21	C	52634	3	1		22-APR-04	02-APR-02	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM, FIRST FLOOR PLAN
8	21	C	52634	3	2		31-JUL-03	02-JUN-03	100190	E	DX ELECTRICAL EQUIPMENT MAINTENANCE, ELEC., ONE LINE DIAGRAM
8	21	C	52888	2	0		18-JUL-01	29-MAR-82		F	SOUTHWEST FIRE PROTECTION FIRST FLOOR PLAN
8	21	C	53009	1	0	G-0001	02-MAY-02	26-APR-02	100381	T	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, TITLE SHEET
8	21	C	53009	2	0	A-0001	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., GENERAL NOTES AND LEGEND
8	21	C	53009	3	0	A-1000	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., DEMOLITION PLAN, PARTIAL SECOND FLOOR PLAN
8	21	C	53009	4	0	A-1001	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., SECOND FLOOR PLAN AND REFLECTED

											CEILING PLAN
8	21	C	53009	5	0	A-2000	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., INTERIOR ELEVATION
8	21	C	53009	6	0	A-3000	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., CURTAIN WALL SECTION
8	21	C	53009	7	0	A-5000	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., DETAILS
8	21	C	53009	8	0	A-9000	02-MAY-02	26-APR-02	100381	A	DIVIDER WALL FOR DX-DO CONFERENCE ROOM, ARCH., CURTAIN WALL AND BEAM SPLICE CONNECTION ISOMETRIC
8	21	C	53516	1	0	G-0001	28-JUN-04	24-JUN-03	100532	T	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, TITLE SHEET AND INDEX TO DRAWINGS
8	21	C	53516	2	0	E-0001	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., SYMBOLS AND LEGEND
8	21	C	53516	3	0	E-1000	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT DEMOLITION PLAN
8	21	C	53516	4	0	E-1001	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT DEMOLITION PLAN
8	21	C	53516	5	0	E-1002	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT DEMOLITION PLAN
8	21	C	53516	6	0	E-1003	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR DEMOLITION PLAN
											ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC.,

8	21	C	53516	7	0	E-1004	28-JUN-04	24-JUN-03	100532	E	PARTIAL FIRST FLOOR DEMOLITION PLAN
8	21	C	53516	8	0	E-1005	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR DEMOLITION PLAN
8	21	C	53516	9	0	E-1006	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR DEMOLITION PLAN
8	21	C	53516	10	0	E-1007	28-JUN-04	24-JUN-03	100532	C	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., SITE PLAN
8	21	C	53516	10	0	E-1007	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., SITE PLAN
8	21	C	53516	11	0	E-1008	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT POWER PLAN
8	21	C	53516	11	1	E-1008	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT POWER PLAN
8	21	C	53516	12	0	E-1009	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT POWER PLAN
8	21	C	53516	12	1	E-1009	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT POWER PLAN
8	21	C	53516	13	0	E=1010	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT POWER PLAN
8	21	C	53516	13	1	E=1010	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT POWER PLAN
8	21	C	53516	14	0	E-1011	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN

8	21	C	53516	14	1	E-1011	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	15	0	E-1012	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	15	1	E-1012	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	16	0	E-1013	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	16	1	E-1013	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	17	0	E-1014	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	17	1	E-1014	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR POWER PLAN
8	21	C	53516	18	0	E-1015	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT LIGHTING PLAN
8	21	C	53516	18	1	E-1015	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT LIGHTING PLAN
8	21	C	53516	19	0	E-1016	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT LIGHTING PLAN
8	21	C	53516	19	1	E-1016	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT LIGHTING PLAN
8	21	C	53516	20	0	E-1017	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT LIGHTING PLAN

8	21	C	53516	20	1	E-1017	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL BASEMENT LIGHTING PLAN
8	21	C	53516	21	0	E-1018	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	22	0	E-1019	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	22	1	E-1019	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	23	0	E-1020	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	23	1	E-1020	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	24	0	E-1021	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	24	1	E-1021	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., PARTIAL FIRST FLOOR LIGHTING PLAN
8	21	C	53516	25	0	E-5000	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., MISCELLANEOUS DETAILS
8	21	C	53516	25	1	E-5000	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., MISCELLANEOUS DETAILS
8	21	C	53516	26	0	E-6000	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., DEMOLITION SINGLE LINE DIAGRAM
8	21	C	53516	26	1	E-6000	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., DEMOLITION SINGLE LINE DIAGRAM

8	21	C	53516	27	0	E-6001	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., SINGLE LINE DIAGRAM
8	21	C	53516	27	1	E-6001	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., SINGLE LINE DIAGRAM
8	21	C	53516	28	0	E-6002	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., GROUNDING SCHEMATIC
8	21	C	53516	29	0	E-6003	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., ISOLATED GROUNDING SCHEMATIC
8	21	C	53516	30	0	E-7000	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., EXISTING PANEL SCHEDULES
8	21	C	53516	30	1	E-7000	19-APR-04	15-SEP-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., EXISTING PANEL SCHEDULES
8	21	C	53516	30	2	E-7000	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., EXISTING PANEL SCHEDULES
8	21	C	53516	31	0	E-7001	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., NORMAL POWER PANEL SCHEDULES
8	21	C	53516	31	1	E-7001	19-APR-04	15-SEP-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., NORMAL POWER PANEL SCHEDULES
8	21	C	53516	31	2	E-7001	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., NORMAL POWER PANEL SCHEDULES
8	21	C	53516	32	0	E-7002	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., NORMAL POWER PANEL SCHEDULES
8	21	C	53516	32	1	E-7002	19-APR-04	15-SEP-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., NORMAL POWER PANEL SCHEDULES

8	21	C	53516	32	2	E-7002	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., NORMAL POWER PANEL SCHEDULES
8	21	C	53516	33	0	E-7003	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., ISOLATED GROUND PANEL SCHEDULES
8	21	C	53516	33	1	E-7003	19-APR-04	15-SEP-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., ISOLATED GROUND PANEL SCHEDULES
8	21	C	53516	33	2	E-7003	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROEJCT, ELEC., ISOLATED GROUND PANEL SCHEDULES
8	21	C	53516	34	0	E-7004	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., NAMEPLATE SCHEDULES
8	21	C	53516	34	1	E-7004	01-DEC-06	21-JAN-05	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., NAMEPLATE SCHEDULES
8	21	C	53516	35	0	E-7005	28-JUN-04	24-JUN-03	100532	E	ELECTRICAL INFRASTRUCTURE, SAFETY UPGRADES PROJECT, ELEC., BILL OF MATERIALS
8	21	C	54000	86	0		03-APR-06	22-MAR-06	101225	G	PARKING LOT INVENTORY PROGRAM FOR LOS ALAMOS NATIONAL LABORATORY, GEN; PARKING LOT DATA, TA08-01 & TA08-02
8	21	C	69626	1	0			27-FEB-72	4783	A	MODIFICATIONS, ARCH: FLOOR PLAN, DETAIL AND NOTES
8	21	C	69627	2	0			17-FEB-72	4783	A	ARCH: FLOOR PLANS & DETAILS
8	21	C	69628	3	0			17-FEB-72	4783	M	MECH: PLAN, SECTION & DETAILS
8	21	C	69629	4	0			17-FEB-72	4783	M	MECH: PLAN, NOTES & EQUIPMENT LIST
8	21	C	69630	5	0			17-FEB-72	4783	E	BILL OF MATERIAL, NAMEPLATES, SCOPE & NOTES

8	21	C	69631	6	0			17-FEB-72	4783	E	ELECT: ONE-LINE DIAGRAMS
8	21	C	69632	7	0			17-FEB-72	4783	E	ELECT: PARTIAL BASEMENT POWER & LIGHTING LAYOUT
8	21	C	69633	8	0			17-FEB-72	4783	E	ELECT: PARTIAL FIRST FLOOR POWER & LIGHTING LAYOUT
8	21	PL	613	1	0		28-DEC-61		2679	UN	ADDITION NO. 1, LABORATORY BUILDING, AW-21 - PLAN & ELEVATIONS
8	21	PL	3727	21	0		18-MAY-78	25-APR-77	5664	F	FIRE PROTECTION IMPROVEMENTS, FY-79, FP; LABORATORY & OFFICE BUILDING
8	21	R	2292	1	0		05-APR-62	07-DEC-61	0	A	FALLOUT SHELTER SURVEY, FLOOR PLAN BASEMENT, ANCHOR SITE WEST
8	21	R	2293	2	0		05-APR-62	08-DEC-61	0	A	FALLOUT SHELTER SURVEY, FIRST FLOOR PLAN, ANCHOR SITE WEST
8	21	R	2616	1	6		17-MAY-89	08-DEC-88	0	A	LABORATORY & OFFICE BUILDING, BASEMENT & FIRST FLOOR PLAN
8	21	R	2616	2	7		12-JAN-89	08-DEC-88	0	A	LABORATORY & OFFICE BUILDING, BLDG. AW-21, FIRST FLOOR PLAN
8	21	R	3721	1	0		27-SEP-66	15-SEP-66	3546	A	EQUIPMENT SURVEILLANCE SYSTEMS, BASEMENT & FIRST FLOOR PLAN
8	21	R	4002	1	1		19-JAN-68	28-SEP-67	3586	A	AUDIO SYSTEM EQUIP. LOCATION, BASEMENT & FIRST FLOOR PLAN
8	21	R	4003	1	1		28-DEC-67	28-SEP-67	3586	E	AUDIO SYSTEM BLOCK DIAGRAM
8	21	SK	7027	1	0		26-FEB-98	12-MAR-80		A	NEW OFFICE MODIFICATIONS REMOVAL PLAN
8	21	SK	7027	2	0		26-FEB-98	12-MAR-80		A	NEW OFFICE MODIFICATIONS NEW LAYOUT PLAN
8	21	SK	7027	3	0		26-FEB-98	12-MAR-80		E	NEW OFFICE MODIFICATIONS ELECTRICAL PLAN
8	21	SK	8814	1	0	S-1000	29-OCT-03	22-SEP-03		S	INSTALLATION OF ROOFMOUNT A/C UNITS, STRUCT., PARTIAL ROOF PLAN
8	21	SK	8814	2	0	S-1001	29-OCT-03	22-SEP-03		S	INSTALLATION OF ROOFMOUNT A/C UNITS, STRUCT., ENLARGED ROOF PLAN

8	21	SK	8814	3	0	S-1002	29-OCT-03	22-SEP-03		S	INSTALLATION OF ROOFMOUNT A/C UNITS, STRUCT., SECTIONS

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8	24	AB	701	1	0		14-JAN-97	24-SEP-96	7556	A	FIRST AND SECOND FLOOR PLAN. RECORD FLOOR PLAN ISOTOPE BUILDING.
8	24	C	1764	1	2		24-JUL-52	04-JUN-57	1265	S	HOIST INSTALLATION. PLAN & DETAILS, BLDG. AW-24, RMS. B & C
8	24	C	12459	1	4		11-JUN-53	10-OCT-49	200	T	BUILDINGS & RELATED SERVICES, PROJECT "B", TITLE SHEET & INDEX OF DRAWINGS
8	24	C	12463	5	6		11-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, GRADING PLAN
8	24	C	12466	8	6		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., FIRST FLOOR PLAN, SCHEDULES
8	24	C	12467	9	7		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., SECOND FLOOR PLAN
8	24	C	12468	10	4		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., ROOF PLAN & DETAILS
8	24	C	12469	11	6		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., ELEVATIONS
8	24	C	12470	12	5		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., SECTIONS
8	24	C	12471	13	5		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., EXTERIOR DETAILS
8	24	C	12472	14	5		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", ARCH., INTERIOR DETAILS
8	24	C	12473	15	4		11-JUN-53	22-MAY-57	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, FIRST FLOOR PLAN SECTIONS & DETAILS
											BUILDINGS & RELATED SERVICES,

8	24	C	12474	16	4	11-JUN-53	22-MAY-57	200	S	PROJECT "B", STRUCT., ROOF PLAN & DETAILS
8	24	C	12513	54	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, FIRST & SECOND FLOOR PLAN, SCHEMATIC DIAGRAM, MATERIAL LIST, NOTES
8	24	C	12530	71	4	11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., PAGING SYSTEM, SCHEMATIC DIAGRAM, FLOOR PLAN
8	24	C	12536	77	5	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., HEATING & PLUMBING, FLOOR PLAN, SCHEMATIC DIAGRAM
8	24	C	12552	93	3	12-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, ROADS, PLAN, PROFILE
8	24	C	12554	95	3	12-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, PLAN, PROFILE, WATER, GAS, DRAINS & SEWER
8	24	C	23650	1	0	04-MAY-60		2363	A	SHIELDED CAVE FACILITY BLDG AW-24, ARCHITECTURAL - FLOOR PLAN, SECT. & DETAILS,
8	24	C	23651	2	0	04-MAY-60		2363	A	ARCHITECTURAL - ELEVATIONS & DETAILS
8	24	C	23652	3	0	04-MAY-60		2363	A	ARCHITECTURAL - SECTIONS
8	24	C	23653	4	0	04-MAY-60		2363	UN	LEAD GLASS WINDOW AND LINER
8	24	C	23654	5	0	04-MAY-60		2363	M	MECHANICAL - SECTIONS & DETAILS
8	24	C	23655	6	0	04-MAY-60		2363	E	ELECTRICAL - PLAN & NOTES
8	24	C	23656	7	0	04-MAY-60		2363	E	ELECTRICAL - BILL OF MATERIAL & WIRING DIAGRAMS
8	24	C	44869	4	0	22-APR-86	25-NOV-85	8232	S	IT-6 TRAILER, STRUCT; FLOOR PLAN, ROOF FRAMING PLAN, SECTION & DETAILS
8	24	C	46461	20	0	28-JUL-05	15-MAR-95	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM

										INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
8	24	C	46461	20	1	30-APR-07	01-JAN-97	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
8	24	C	48513	7	0	12-DEC-92	02-APR-80		A	TECH AREA RE-ROOFING FY-80, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLAN, ELEVATIONS
8	24	C	48513	7	0	12-DEC-92	02-APR-80		C	TECH AREA RE-ROOFING FY-80, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLAN, ELEVATIONS
8	24	PL	174	1	0	29-JAN-60		2363	UN	SHIELDED CABE FACILITY, BLDG. AW-24 - PLAN & SECTION
8	24	R	2365	1	0	06-APR-62	30-MAR-62	0	A	FALLOUT SHELTER SURVEY, FLOOR PLAN, ANCHOR SITE WEST
8	24	R	2621	1	2	23-APR-63	25-AUG-83	0	A	FIRST FLOOR PLAN, ISOTOPE BUILDING
8	24	R	2622	2	2	23-APR-63	25-AUG-85	0	A	SECOND FLOOR PLAN, ISOTOPE BUILDING
8	24	R	3724	1	0	27-SEP-66	15-SEP-66	3546	A	EQUIPMENT SURVEILLANCE SYSTEMS, SECOND FLOOR PLAN
8	24	R	4010	1	0	19-JAN-68	11-SEP-67	3586	A	AUDIO SYSTEM EQUIP. LOCATION, FIRST FLOOR PLAN
8	24	R	4011	1	0	19-JAN-68	11-SEP-67	3586	E	AUDIO SYSTEM BLOCK DIAGRAM
8	24	SK	3481	1	0		07-AUG-49	200	A	SCHEMATIC DRAWING BLDG 24 PHASE B

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8	25	C	12459	1	4		11-JUN-53	10-OCT-49	200	T	BUILDINGS & RELATED SERVICES, PROJECT "B", TITLE SHEET & INDEX OF DRAWINGS
8	25	C	12477	19	6		11-JUN-53	08-SEP-49	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, FLOOR & ROOF PLANS, SECTIONS & DETAILS, BLDGS. AW-25, & AW-29
8	25	C	12515	56	4		11-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., CONTROL WIRING HYDRAULIC LIFT, CIRCUIT & WIRING DIAGRAM, LEGEND
8	25	C	12516	57	5		11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, PLAN, WIRING DIAGRAM, ROOF PLAN, MATERIAL LIST AND NOTES
8	25	C	12530	71	4		11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., PAGING SYSTEM, SCHEMATIC DIAGRAM, FLOOR PLAN
8	25	C	12537	78	3		12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., RADIANT HEATING LAYOUT, FLOOR PLAN, SCHEMATIC DIAGRAM
8	25	C	12555	96	4		12-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, PLAN, PROFILE, WATER, GAS, DRAINS & SEWER
8	25	C	12562	103	3		12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., CONTROL PANEL DOOR, HYDRAULIC LIFT
8	25	C	12563	104	3		12-MAY-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., CONTROL PIPING, HYDRAULIC LIFT
8	25	C	12564	105	4		12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., AIR-OIL RECEIVER, HYDRAULIC LIFT

8	25	C	12566	107	3	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., SOLENOID VALVE BOX, HYDRAULIC LIFT
8	25	C	46461	20	0	28-JUL-05	15-MAR-95	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
8	25	C	46461	20	1	30-APR-07	01-JAN-97	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
8	25	C	52051	1	0	01-SEP-98	21-JUL-98	18393	E	ELECTRICAL UPGRADES, ELEC., SYMBOL LEGEND AND GENERAL NOTES
8	25	C	52051	2	0	01-SEP-98	21-JUL-98	18393	E	ELECTRICAL UPGRADES, ELEC., DEMOLITION PLAN, POWER PLAN, ELEVATION, ONE-LINE DIAGRAM, NAMEPLATE SCHEDULES, BILL OF MATERIAL
8	25	C	52051	3	0	01-SEP-98	21-JUL-98	18393	E	ELECTRICAL UPGRADES, ELEC., PANELBOARD SCHEDULE AND GROUNDING ISOMETRIC
8	25	R	2623	1	1	04-AUG-64	31-AUG-83	0	A	FLOOR PLAN, UTILITY BUILDING
8	25	R	3725	1	0	27-SEP-66	15-SEP-66	3546	A	EQUIPMENT SURVEILLANCE SYSTMES, FLOOR PLAN
8	25	R	4012	1	0	19-JAN-68	11-SEP-67	3586	A	AUDIO SYSTEM EQUIP. LOCATION, FLOOR PLAN
8	25	R	4013	1	0	19-JAN-68	12-SEP-67	3586	E	AUDIO SYSTEM BLOCK DIAGRAM

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8	28	C	12508	50	6		11-JUN-53	22-MAY-57	200	A	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT & DETAILS, FLOOR & ROOF PLAN, PLOT PLAN, MATERIAL LIST
8	28	C	12508	50	6		11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT & DETAILS, FLOOR & ROOF PLAN, PLOT PLAN, MATERIAL LIST
8	28	R	1799	1	0		11-JAN-63	05-MAR-59	0	F	FIRE ALARM EQUIPMENT, BLDG. AW-28, FLOOR PLAN
8	28	R	2626	1	0		30-JUL-64	14-JUL-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

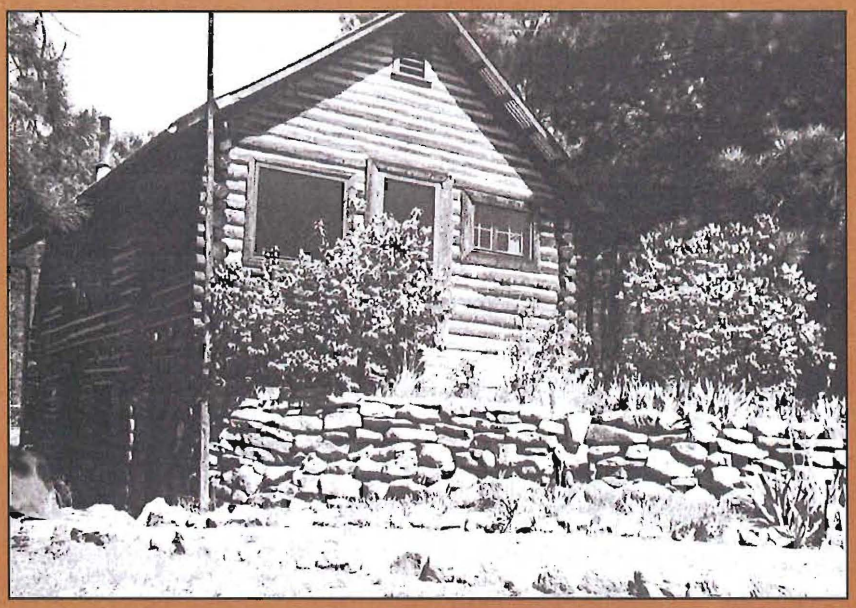
TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
8	29	C	12459	1	4		11-JUN-53	10-OCT-49	200	T	BUILDINGS & RELATED SERVICES, PROJECT "B", TITLE SHEET & INDEX OF DRAWINGS
8	29	C	12477	19	6		11-JUN-53	08-SEP-49	200	S	BUILDINGS & RELATED SERVICES, PROJECT "B", STRUCT., LAYOUT, FLOOR & ROOF PLANS, SECTIONS & DETAILS, BLDGS. AW-25, & AW-29
8	29	C	12515	56	4		11-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., CONTROL WIRING HYDRAULIC LIFT, CIRCUIT & WIRING DIAGRAM, LEGEND
8	29	C	12516	57	5		11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., LAYOUT, PLAN, WIRING DIAGRAM, ROOF PLAN, MATERIAL LIST AND NOTES
8	29	C	12530	71	4		11-JUN-53	22-MAY-57	200	E	BUILDINGS & RELATED SERVICES, PROJECT "B", ELEC., PAGING SYSTEM, SCHEMATIC DIAGRAM, FLOOR PLAN
8	29	C	12537	78	3		12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., RADIANT HEATING LAYOUT, FLOOR PLAN, SCHEMATIC DIAGRAM
8	29	C	12555	96	4		12-JUN-53	22-MAY-57	200	C	BUILDINGS & RELATED SERVICES, PROJECT "B", CIVIL, PLAN, PROFILE, WATER, GAS, DRAINS & SEWER
8	29	C	12562	103	3		12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., CONTROL PANEL DOOR, HYDRAULIC LIFT
8	29	C	12563	104	3		12-MAY-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., CONTROL PIPING, HYDRAULIC LIFT
8	29	C	12564	105	4		12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., AIR-OIL RECEIVER, HYDRAULIC LIFT

8	29	C	12566	107	3	12-JUN-53	22-MAY-57	200	M	BUILDINGS & RELATED SERVICES, PROJECT "B", MECH., SOLENOID VALVE BOX, HYDRAULIC LIFT
8	29	C	46461	20	0	28-JUL-05	15-MAR-95	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
8	29	C	46461	20	1	30-APR-07	01-JAN-97	10549	E	SCADA WATER PRODUCTION MONITORING & CONTROL SYSTEM INSTALLATION, ELEC; PARTIAL ESS SITE PLANS
8	29	C	52052	1	0	01-SEP-98	21-JUL-98	18393	E	ELECTRICAL UPGRADES, ELEC., SYMBOL LEGEND AND GENERAL NOTES
8	29	C	52052	2	0	02-SEP-98	21-JUL-98	18393	E	ELECTRICAL UPGRADES, ELEC., DEMOLITION PLAN, POWER PLAN, ELEVATION, ONE-LINE DIAGRAM, NAMEPLATE SCHEDULES, BILL OF MATERIAL
8	29	C	52052	3	0	02-SEP-98	21-JUL-98	18393	E	ELECTRICAL UPGRADES, ELEC., PANELBOARD SCHEDULE AND GROUNDING ISOMETRIC
8	29	R	2627	1	1	11-AUG-64	31-AUG-83	0	A	FLOOR PLAN, UTILITY BUILDING
8	29	R	3726	1	0	27-SEP-66	15-SEP-66	3546	A	EQUIPMENT SURVEILLANCE SYSTEMS, FLOOR PLAN
8	29	R	4014	1	0	19-JAN-68	12-SEP-67	3586	A	AUDIO SYSTEM EQUIPMENT LOCATION, FLOOR PLAN
8	29	R	4015	1	0	19-JAN-68	12-SEP-67	3586	E	AUDIO SYSTEM BLOCK DIAGRAM

LA-UR-08-05335

From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)

Volume 2





ENV-EAQ Cultural Resources
Environmental Protection Division
LOS ALAMOS NATIONAL LABORATORY

LA-UR-08-05335

From Ranching to Radiography: An Assessment of Historic Buildings at Anchor West Site (TA-8)

Volume 2
Indexed Archival Photographs

Historic Building Survey Report No. 256

Los Alamos National Laboratory

August 14, 2008
Survey No. 1008

Prepared for the U.S. Department of Energy
National Nuclear Security Administration
Los Alamos Site Office

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ENV-EAQ Cultural Resources
Environmental Protection Division
LOS ALAMOS NATIONAL LABORATORY

Los Alamos National Laboratory Historic Building Survey
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Technical Area 8 "Anchor Ranch West"
Technical Area 8, Structures (21, 24, 25, 28 and 29)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Notes: The Laboratory is divided into different geographic areas called technical areas (TAs) that are designated by numbers. The properties at TA-8 "Anchor Ranch West" are identified using the current LANL system of placing the "TA" prefix and TA number before each building and structure number, creating a unique property identifier (ie. TA-8-24).

The Anchor West Site was used during the Manhattan Project to design and test components of the uranium gun device, the weapon design known as "Little Boy" that was exploded over Hiroshima. The Anchor Ranch Proving Ground was completed and in active use by mid-September 1943. Special test guns were ordered from the Naval Gun Factory at the end of 1943, but were not ready until March 1944. During the four-month waiting period, personnel at TA-8 conducted practice tests, perfected gun testing operations, and established high-speed photographic techniques for documenting the test data (McGehee 2002).

In May 1944, the first industrial-type radiograph was made at Anchor West Site using a medical X-ray unit (U.S. DOE 1986). In August 1944, these operations were moved to T-Site, another early TA (U.S. DOE 1986). Radiographic (X-ray) facilities were developed at Los Alamos to inspect various weapons parts and high explosives components.

TA-8-21 was built in 1950 as an administration and laboratory building. This building served as a laboratory and administrative building associated with TA-8 radiography facilities used for studies of high explosives, plutonium, uranium, arsenic, lithium hydride, and titanium oxide. (LANL 1993) TA-8-21 was part of a non-destructive test facility.

Beginning in the fall of 1945, TA-8 was used by Laboratory explosives personnel for high explosives research and development. In July 1949, construction of a new radiographic complex was begun. The new "GT-Site" was completed by 1950, the same year that some of the older wartime facilities at Anchor West Site were being removed. Early GT-Site contained a storage vault; source rooms; high explosives magazines; and X-ray, betatron, and film processing equipment. During the Cold War years, facilities at TA-8 were used for ultrasonic and electromagnetic testing. Research involving high explosives, plutonium, uranium, arsenic, lithium hydride, and titanium oxide was also conducted. In 1953, J Division personnel used some of the remaining Anchor West buildings for crystal growing experiments (U.S. DOE 1986).

TA-8—now known as GT-Site—supports non-destructive testing and evaluation activities. In addition to standard office space, TA-8 contains laboratory areas that house high-intensity

radiography equipment. Other diagnostic and scientific capabilities include photography laboratories, darkrooms, a scanning electron microscope instrument room, and a machine shop. Complete X-ray developing is also available in this facility (MacRoberts n.d., LANL 1993, Harris 1993).

The archival photographs that follow are part of required documentation that fulfils the terms of two memoranda of agreement (MOAs) between the U.S. Department of Energy, National Nuclear Security Administration, Los Alamos Site Office, and the New Mexico State Historic Preservation Division resolving adverse effects to three National Register (Register)-eligible buildings.

Two of the Register-eligible buildings were excess LANL properties and were scheduled for clean up and eventual demolition (TA-8-24 and TA-8-28). The decontamination and decommissioning (D&D) action is in accordance with LANL's commitment to clean up inactive sites and facilities "so that no unacceptable risk to the public or environment remains" (U.S. Department of Energy 1994). The removal of the two Register-eligible properties was carried out by LANL's D&D Program. (For additional information, see related project documentation: *"Excerpt From Ranching to Radiography at Technical Area 8"*, LA-UR-06-5552, Cultural Resource Report No. 256 and *From Ranching to Radiography, Technical Area 8*, LA-UR-08-05335, Historic Building Report No. 256). Archival photographs of two buildings scheduled for demolition as part of this undertaking but not determined eligible for the Register (TA-8-25 and TA-8-29) are also included.

The archival photo documentation in this volume also fulfills requirements related to roof remodeling activities at TA-8-21. The roof of this Register-eligible property was repaired, potentially affecting the building's exterior design integrity. Roof repairs included the use of an epoxy-type material on the cantilever overhang to fill in cracks caused by water buildup and subsequent freezing and thawing. (For additional information, see related project documentation: *TA-8-21 Roof Repair,* LA-UR-05-5704, Historic Building Survey Report No. 248).

References

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Technical Area 8 "Anchor Ranch West" Site, TA-8-21
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL July 15, 2005

RB05-007-001 through RB05-007-025

Photograph Number	Description
RB05-007-001	TA-8-21, east side (front), facing southwest.
RB05-007-003	TA-8-21, east side (front), facing northwest.
RB05-007-005	TA-8-21, east side (front) south end, facing west.
RB05-007-006	TA-8-21, east side (front) mid south section, facing west.
RB05-007-007	TA-8-21, east side (front) mid north section, facing west.
RB05-007-009	TA-8-21, east side (front) north end, facing west.
RB05-007-010	TA-8-21, east side (front), main building entrance, facing west.
RB05-007-012	TA-8-21, north side, facing south.
RB05-007-013	TA-8-21, north side, facing southwest.
RB05-007-015	TA-8-21, north side, facing southeast.
RB05-007-020	TA-8-21, west (back) and north sides of addition, facing south.
RB05-007-016	TA-8-21, west side (back) north end, facing east.
RB05-007-018	TA-8-21, west side (back) and north and west side of addition, facing east.

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Technical Area 8 "Anchor Ranch West" Site, TA-8-21 continued
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL July 15, 2005

Photograph Number	Description
RB05-007-019	TA-8-21, west side (back) mid south section (west side of addition), facing east.
RB05-007-021	TA-8-21, west (back) and south sides of addition, facing northeast.
RB05-007-023	TA-8-21, south side of addition, facing north.
RB05-007-022	TA-8-21, west side (back) south end, facing east.
RB05-007-024	TA-8-21, south side, facing north.
RB05-007-025	TA-8-21, south side, facing northwest.

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Technical Area 8 "Anchor Ranch West" Site, TA-8-24
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL
June 23, 2006, July 27, 2006, and August 29, 2006

RB06-008-001 through RB06-008-048

Photograph Number	Description
RB06-008-045	TA-8-24, northeast side (front), facing southwest.
RB06-008-046	TA-8-24, southeast side, facing northwest.
RB06-008-047	TA-8-24, southwest side (back), facing northeast.
RB06-008-048	TA-8-24, northwest side, facing southeast.
RB06-008-010	TA-8-24, room D, facing south. Stairs lead to second floor.
RB06-008-011	TA-8-24, room D, facing southwest. Looking into room B.
RB06-008-012	TA-8-24, room D, facing west. Doorway leading to room B.
RB06-008-013	TA-8-24, room D, facing north. Doorway leading to room C.
RB06-008-014	TA-8-24, room D, facing east. Front door at left, doorway at right leading to room A.
RB06-008-006	TA-8-24, room C, facing north. Doors at left lead to outside.
RB06-008-007	TA-8-24, room C, facing west. Doors at right are same doors as in previous photo.
RB06-008-008	TA-8-24 room C, facing south.

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Technical Area 8 "Anchor Ranch West" Site, TA-8-24 continued
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL
June 23, 2006, July 27, 2006, and August 29, 2006

Photograph Number	Description
RB06-008-005	TA-8-24 room C, facing east. Sliding door in center of photo leads into room D.
RB06-008-009	TA-8-24 room C, facing southeast. *Plymetal* sliding door between room C and room D.
RB06-008-003	TA-8-24 room B, facing west. Doors at left lead to outside.
RB06-008-002	TA-8-24 room B, facing north. *Plymetal* sliding door between room B and room D.
RB06-008-001	TA-8-24 room B, facing east.
RB06-008-004	TA-8-24 room B, facing south. Doors at right lead to outside.
RB06-008-016	TA-8-24 room A, facing south. View port of "shielding cave" of Hot Cell room F. Original room A was divided in half in the 1960s. The southeastern portion of the room becoming a hot cell room housing a shielded cave to support flash x-ray operations.
RB06-008-017	TA-8-24 room A, facing west.
RB06-008-018	TA-8-24 room A, facing north. *Plymetal* sliding door between room A and room D.
RB06-008-020	TA-8-24 room A, closeup of view port of "shielding cave" showing left manipulator arm, facing east.
RB06-008-021	TA-8-24 room A, closeup of view port of "shielding cave" showing right manipulator arm, facing south.

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Technical Area 8 "Anchor Ranch West" Site, TA-8-24 continued
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL
June 23, 2006, July 27, 2006, and August 29, 2006

Photograph Number	Description
RB06-008-019	TA-8-24 room A, closeup of controls for manipulator arms, facing southeast.
RB06-008-022	TA-8-24 room F, "shielding cave" and one manipulator arm at right, facing west.
RB06-008-023	TA-8-24 room F, "shielding cave", facing west northwest.
RB06-008-024	TA-8-24 room F, "shielding cave", facing northwest.
RB06-008-025	TA-8-24 room F, "shielding cave" and one manipulator arm at left, facing north.
RB06-008-026	TA-8-24 room E second floor, facing east.
RB06-008-027	TA-8-24 room E second floor, facing north.
RB06-008-028	TA-8-24 room E second floor, facing south.
RB06-008-029	TA-8-24 stairs from room E second floor, looking down, facing southeast.

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Technical Area 8 "Anchor Ranch West" Site, TA-8-25
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL
June 23, 2006, July 27, 2006, and August 29, 2006

RB06-007-001 through RB06-007-008 and RB06-008-001 through RB06-008-048

Photograph Number	Description
RB06-007-008	TA-8-25, southwest and southeast (front) sides, facing north.
RB06-007-007	TA-8-25, northeast and northwest (back) sides, facing south.
RB06-008-033	TA-8-25, room 101, facing north.
RB06-008-034	TA-8-25, room 101, facing west.

Los Alamos National Laboratory Historic Building Survey
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Technical Area 8 "Anchor Ranch West" Site, TA-8-28
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL
June 23, 2006, July 27, 2006, and August 29, 2006

RB06-007-001 through RB06-007-008 and RB06-008-001 through RB06-008-048

Photograph Number	Description
RB06-007-006	TA-8-28, north (front) and west sides, facing southeast.
RB06-007-005	TA-8-28, south (back) and east sides, facing northwest.
RB06-008-037	TA-8-28, interior, facing southwest.

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Technical Area 8 "Anchor Ranch West" Site, TA-8-29
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM-RMMSO, LANL
June 23, 2006, July 27, 2006, and August 29, 2006

RB06-007-001 through RB06-007-008 and RB06-008-001 through RB06-008-048

Photograph Number	Description
RB06-007-001	TA-8-29, southwest and southeast (front) sides, facing north.
RB06-007-002	TA-8-29, northeast and northwest (back) sides, facing south.
RB06-008-042	TA-8-29, room 101, facing north northeast.
RB06-008-043	TA-8-29, room 101, facing west.