LA-UR-08-0845

High Explosives and the Nuclear Stockpile: An Assessment of Historic Buildings at Magazine Area C (TA-37)

Volume 1

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

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High Explosives and the Nuclear Stockpile: An Assessment of Historic Buildings at Magazine Area C (TA-37)

Volume 1

Historic Building Survey Report No. 278

Los Alamos National Laboratory

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Survey No. 1027

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Los Alamos Site Office

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ENV-EAQ Cultural Resources
Environmental Protection Division
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EXECUTIVE SUMMARY

In compliance with Section 106 and Section 110 of the National Historic Preservation Act, Los Alamos National Laboratory's (LANL's) cultural resources personnel have completed the evaluation of all properties at Technical Area (TA) 37, a former high explosives storage area, for inclusion on the National Register of Historic Places (Register). Of the 27 properties located at TA-37, eight are Register-eligible and the remaining 19 are not. Descriptions of the evaluated properties are contained in Volume 1.

Some of the properties located at TA-37 have been identified as excess properties as part of LANL's routine phasing out of aging properties and are currently scheduled for decontamination and decommissioning (D&D). Eight properties located at TA-37 were included on the FY 2007-2008 list for D&D: TA-37-1, -2, -3, -15, -16, -17, -18, and -27.

In addition to assessing the significance of historic properties at TA-37, this report fulfills the standard documentation and reporting requirements for resolving adverse effects to the two Register-eligible buildings that will be decommissioned during FY 2008 (TA-37-1 and -2).

Appendices to Volume 1 include historic building inventory forms for all properties at TA-37 (Appendix A), maps showing TA-37'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 all buildings at TA-37 (Appendix D). Additionally, a set of indexed archival photographs of Register-eligible buildings 37-1 and -2 with supplemental views of building 37-27 is included in Volume 2.

The State Historic Preservation Officer (SHPO) is requested to concur with the eligibility determinations contained in this assessment report for all properties at TA-37. Furthermore, the SHPO is requested to concur that the documentation contained in this report resolves adverse effects to Register-eligible buildings 37-1 and -2.

INTRODUCTION

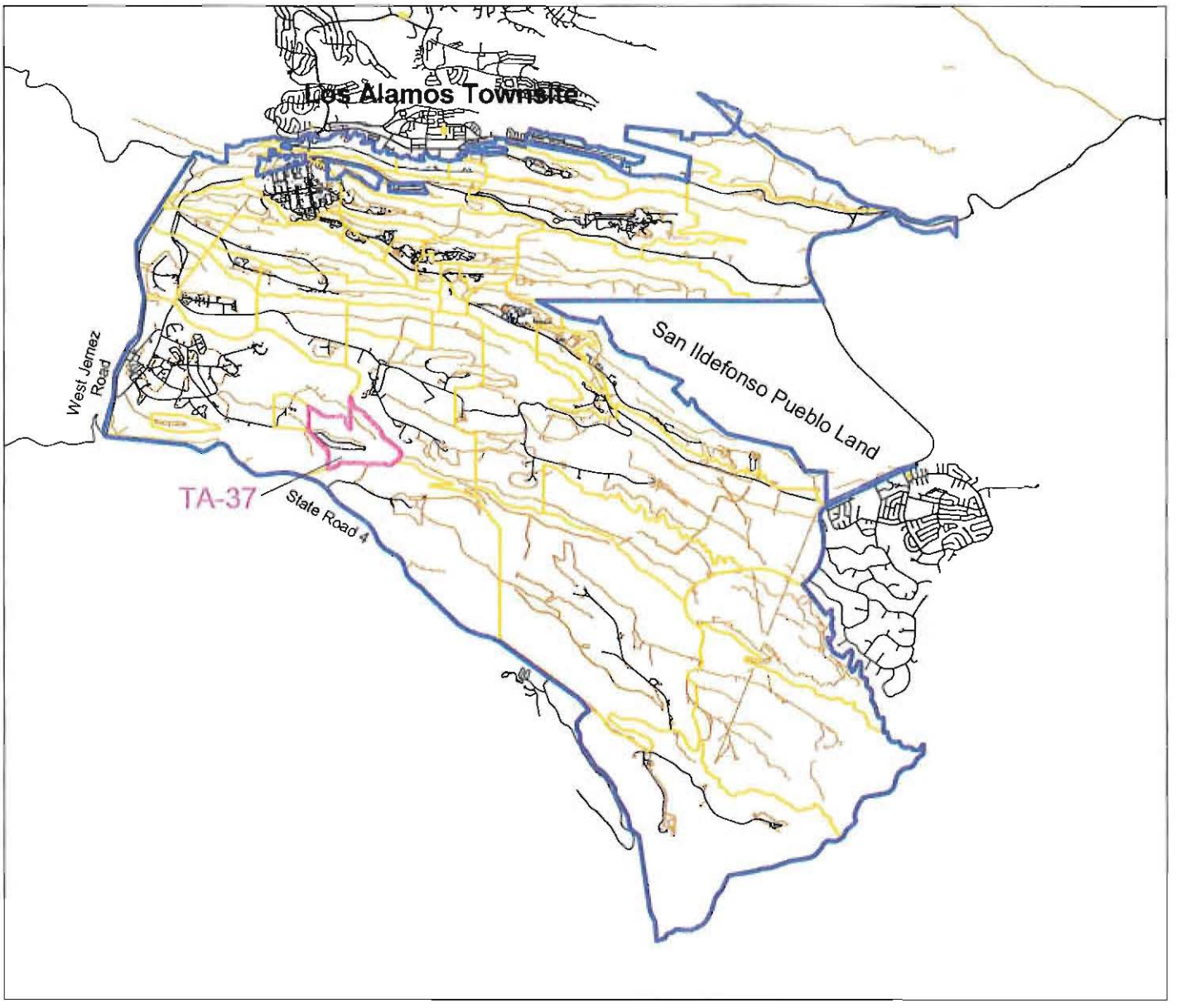
Historic Property Eligibility Assessment and Historic Context

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 Technical Area (TA) 37. In addition, this report fulfills the standard documentation and reporting requirements for resolving adverse effects as outlined in Section 9 of the Los Alamos National Laboratory (LANL) Cultural Resources Management Plan (LANL 2006a).

Work processes carried out at TA-37 included high explosive research, development, and storage in support of the nation's Cold War nuclear weapons program. Historical context information about activities at TA-37, property descriptions, and recommendations for Register eligibility for all properties located at TA-37 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, maps showing TA-37's construction history and the location of eligible and non-eligible properties, interview information, and a listing of drawings on file for all buildings at TA-37. Archival photographs of 37-1, -2, and -27 are included in Volume 2.

Survey Methods

In 2004 and 2007, surveys of historic properties located at TA-37 were conducted by Sheila A. McCarthy, Historical Architect, Benchmark Consulting Group; Ken Towery and Kristen Honig, Site Planning and Project Initiation Group, LANL; and Kari Garcia, Ecology and Air Quality Group, LANL. The building surveys were accomplished by conducting field visits to the buildings at TA-37. The location of TA-37 within LANL boundaries is shown on 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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Technical Area 37
LANL Boundary
Technical Areas
Roads
Dirt Roads

LANL Boundary and TA-37

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-named "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 World War II (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 US 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 1," 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 Nevada Test Site [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

[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).

delivery systems. The year 1956 was also the last year that Los Alamos was a closed facility—the gates into the Los Alamos townsite came down in 1957.

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).

HIGH EXPLOSIVES RESEARCH AND DEVELOPMENT AT LANL

High Explosives

High explosives are energetic materials. According to LANL scientists, high explosives "are combustibles, but not in the class, for instance, of the materials in the head of a match" (Bzdil *et al.* 2003:96). Combustion, like that taking place when a match burns, is a relatively slow process that begins when chemical reactions burn an outer layer of material. The burning action releases heat, which in turn is transferred to another layer where ignition occurs. High explosives, by contrast, involve a high-speed combustion process known as detonation (Bzdil *et al.* 2003).

> The detonation derives its energy from the chemical reactions in the material, but the energy transfer occurs not by thermal conduction, as in a match head, but by a high-speed compression, or shock, wave. The high-pressure detonation wave streaks through the material at supersonic speeds, turning the material into high-pressure, high-temperature gaseous products that can do mechanical work at an awesome rate. For example, solid high explosives, like those used in nuclear weapons, have a detonation speed of about 8000 meters per second, or three times the speed of sound...and an enormous power density, and thus a very rapid rate of energy liberation, which is what makes solid explosives unique and useful (Bzdil *et al.* 2003:96).

Historical Background and High Explosives Storage Practices at Los Alamos

Explosives Research During World War II

The development of diverse and complex engineering methods relating to detonator, initiator, and high explosives research was a primary accomplishment of the wartime laboratory. The importance of engineering methods is best illustrated by the response of Los Alamos scientists to the greatest scientific crisis of the Manhattan Project effort: the discovery that plutonium could not be used in the gun-type weapon and the need to develop, under extreme pressures of time, an alternative weapon design.

To develop an alternative design, Los Alamos "threw the book" at what was called the implosion problem. The implosion design involved the use of 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. The theory was sound, but turning it into a practical reality was another question—an engineering question. Meeting this challenge turned the work at Los Alamos into a model "big science" effort involving hundreds of workers. In the summer of 1944, J. Robert Oppenheimer, director of the secret Project Y, completely reorganized the Laboratory, giving implosion work top priority. Much of the effort took place at S-Site, located south of the Los Alamos townsite and well away from other Laboratory activities (Figure 1). High explosives components of the implosion design for the Trinity device and for the Fat Man bomb were developed, manufactured, and tested at S-Site (Hoddeson *et al.* 1998).

Figure 1. S-Site (TA-16), 1950

A major problem facing the scientists working with high explosives was that there were no existing methods for high explosives casting. The military's standards for explosives performance were well below what was needed to develop the key to the critical assembly of the plutonium contained in the Trinity device and the Fat Man bomb: producing a *symmetrical* implosion. Because of the difficulty of the task of recording events during an explosive event and timing them within an uncertainty of microseconds, at least seven diagnostic testing methods were developed to study the inner workings of implosion. The concept of implosion was successfully made into a reality because the Laboratory used every means at its disposal. Scientists and engineers at S-Site used over 100,000 pounds of high explosives every month during peak production. They produced about 20,000 usable castings over an eighteen-month period, composed of several types of explosive materials such as Composition B, Torpex, Pentolite, Baronal, and Baratol (Hawkins 1988; Hoddeson *et al.* 1998; LANL 1995; McGehee *et al.* 2002).

Explosives Research Post-WWII

Post-WWII work at Los Alamos included further processing of high explosives related to the continued development of nuclear weapons, such as the development of components for the Cold War nuclear stockpile and for atmospheric tests in the Pacific and Nevada. One of the Laboratory's most important Cold War contributions to the country's nuclear weapons program was the development of plastic-bonded explosives (PBX) in the mid 1950s. PBX was first used in a nuclear explosion in 1956. This development allowed the shift from precision, machined cast explosives to formulations containing high concentrations of high-energy-density compounds that had reduced sensitivity, more uniformity, and better mechanical characteristics than the earlier explosives. Pressed PBX are the key energetic materials in today's enduring stockpile (LANL 2006b).

LANL researcher Timothy Neal, writing in 1993, described additional Cold War era improvements in high explosives design, especially in the area of safety and the development of accident resistant compounds.

> The emphasis on safety in nuclear weapon research led to the development of insensitive high explosive (IHE) at Los Alamos. During the 1970s the Laboratory pioneered the use of IHE in nuclear weapons designs, which dramatically decreased the possibility that the explosives would detonate during accidental insults. Most modern weapons are designed to incorporate insensitive explosives. An IHE such as triaminotrinitrobenzene (TATB) can be dropped from great heights and will shatter but not explode. If exposed to fire in an accident, TATB will burn, but it is extremely unlikely to undergo a transition from burning to deflagration or detonation. Even when exposed to high temperature, extreme pressures, or shocks, these materials resist explosion. Thus, they can be handled quite safely with simple precautions (Neal 1993:54).

Laboratory scientists must certify the safety, reliability, and performance of nuclear weapons in the stockpile without testing them, the underground testing of nuclear weapons having been prohibited since 1992 (Figure 2). The challenge for Los Alamos scientists has been to develop

other methods for predicting, with high accuracy, whether the nation's nuclear weapons will work as designed after long periods of storage. This challenge has centered on the study of explosives. Scientists need to know how explosives behave and change as they age, and they need to understand the course of energy release from explosives under various conditions. Specifically, they need to 1) predict the outcome of intentional detonation of high explosives in complex, three-dimensional geometries; 2) create high explosives that are safe (that will not detonate accidentally); and 3) create high explosives that are reliable (that produce the same, consistent response to a prescribed stimulus) (Bzdil *et al.* 2003).

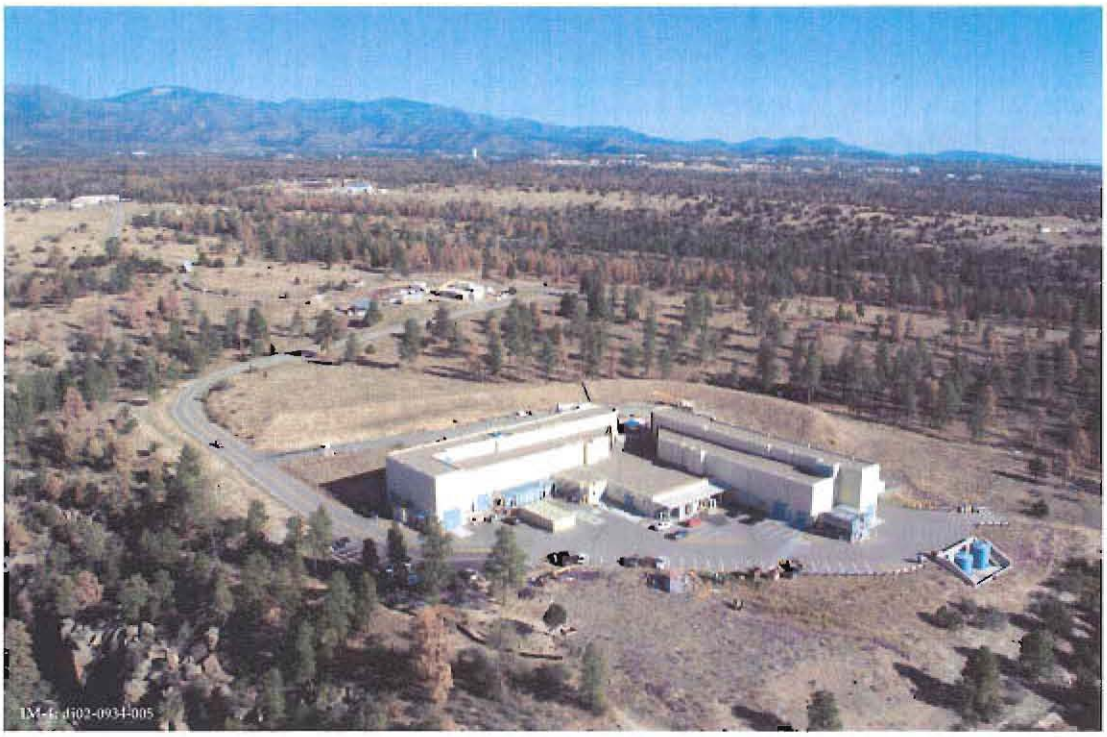


Figure 2. The Dual-Axis Radiographic Hydrodynamic Test (DARHT) facility is a massive X-ray machine built to provide valuable freeze-frame photos of materials imploding at speeds more than 10,000 miles an hour. DARHT has two accelerators set at right angles that focus on a single firing point. This facility is used to study weapons systems without conducting nuclear tests. It provides a nonnuclear replication of what occurs in a real nuclear weapon when the primary stage implodes.

Laboratory scientists provide the knowledge base in high explosives for the nuclear weapons program and other critical national-security areas such as threat reduction. To be more specific, among other tasks, they perform chemical synthesis of new explosives and energetic and inert materials and prepare composite energetic materials for research purposes. They do research and development into the effects of age and wear on explosive materials and develop safe technologies for demilitarizing, or destroying, explosives that have reached the end of their useful lives. They perform a wide variety of tests on high explosives to evaluate their mechanical behavior and response and to refine processing methods for high explosives. They perform experiments to study the microstructure of high explosive powders in an ongoing effort to refine their understanding of the physical properties and performance of energetic materials.

And they investigate the chemical and physical processes that drive the hydrodynamics of explosives and reacting systems. For some research, Laboratory scientists use what is known as shock and detonation physics, in which they characterize the shock properties and the initiation and detonation performance of weapon explosives. Scientists perform these shock and detonation tests on a wide variety of explosives at high pressures and at time scales ranging from nanoseconds to hours.

Laboratory physicists also conduct research into the initiation of energetic materials by mechanisms other than shock, such as mechanical, thermal, and electromagnetic, and they develop and test new types of energetic materials. Techniques include several kinds of high-speed photography, a range of flash X-ray systems, time-of-arrival diagnostics, several kinds of pressure gauges, interferometric techniques, and other procedures (Figure 3).

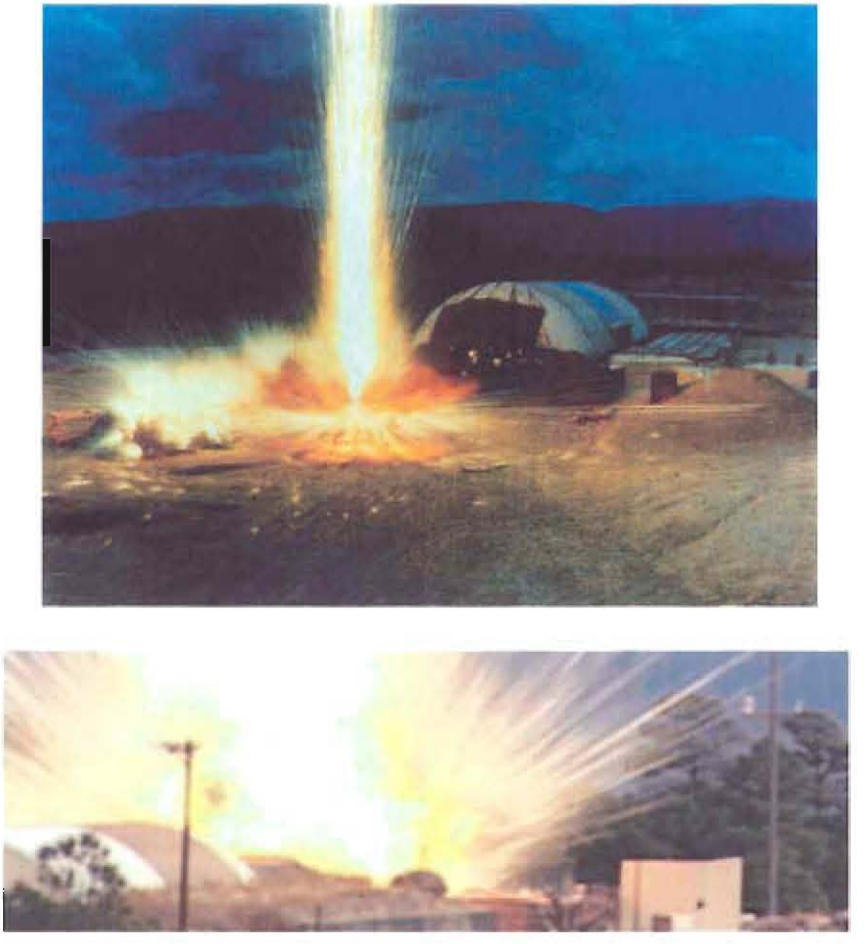


Figure 3. Explosive shots at the Pulsed High-Energy Radiographic Machine Emitting X-rays, or PHERMEX

All these experiments are part of an ongoing effort, begun during the Manhattan Project years and continued through the Cold War era to the present day, to learn how explosives behave in many different environments.

Processing and Testing High Explosives

Historically, for safety reasons, high explosives processing operations have been conducted in several physically separated facilities that are functionally distinct. At Los Alamos, most of these operations have taken place at or near S-Site (TA-16) in processing areas known as "lines" (Figure 4). Processing activities consist primarily of the manufacture and assembly of high explosive components for nuclear weapons and for science-based stockpile-stewardship program tests and experiments. In general, high explosives research and development activities are centered in buildings at TA-9, TA-16, and TA-22. Environmental and safety tests are performed at TA-9 and TA-11. TA-8 houses radiography activities (LANL 2000). At TA-11, a separate site located adjacent to S-Site, a drop tower and a shake table are employed to do various environmental and effects tests on components and explosives (US DOE 1986; LANL 1993b).

Figure 4. S-Site (TA-16), aerial view of high explosives processing "lines," 1991

Production activities at the TA-16 "lines" include casting and plastics, preparation, metal forming, pressing, machining and inspection, radiography, assembly, packaging and transportation, and disposal.

High explosives casting, inert-materials processing, and plastics operations involve inert materials used to produce mock high explosive components for a variety of display or testing purposes. In the plastics areas, components of plastics are fabricated for the assembly of nuclear weapons. In preparation facilities, high explosives are readied for various uses, including the coating of high explosive granules with plastics. Metal forming, done historically but only infrequently now, takes place in a separate facility (Goldie 2007). At inspection facilities, explosives obtained from commercial vendors are examined upon arrival at S-Site.

For safety reasons, the pressing of high explosives is conducted in an even more remote location. Shaped pieces of explosives are provided for machining to true shape. High explosive material is brought into these types of facilities in plastic-coated granular form, placed into molds, and subjected to very high pressures. This process produces solid pieces of high explosives in various shapes and sizes.

In machining and inspection facilities, rough pressings or castings of high explosives are machined into hemispherical shapes or test charges using a combination of computer-controlled mills and lathes. High explosives machining is conducted using water as a coolant, and each machine is provided with a re-circulating water treatment and cooling system. Radiography is used as part of the inspection process. Radiography facilities radiograph (X-ray) explosive parts—typically castings, pressings, and machinings—to determine the presence of flaws in a piece of explosive.

Weapons systems containing high explosives and surrogates for special nuclear material are assembled and disassembled, or packaged and prepared for transportation to the sites where they are needed. The life of a high explosive comes to an end with its disposal. Some high explosives are disposed of by detonation, while others are burned; each process takes place under strict safety regulations.

Safety Standards and Layout

The layout of the explosive processing areas is unique within the Laboratory. As originally constructed, operations were divided into functionally distinct and physically separated complexes called main processing areas or "lines." These operational lines were designed to anticipate the effects of accidental explosions within a working bay. Safety features were incorporated into the design of each high explosives facility; safe quantities, safe distances, and appropriate levels of protection were considered for each type of explosives activity. Specific design elements include interconnected metal corridors, separate "rest" houses for storage of explosives, and earthen berms and barricades (MacRoberts n.d.). For current operations, the Laboratory follows the detailed safety regulations described in DoD 6055.9-STD (US DOD 2007).

Magazine Area A (TA-28)

TA-28, located near the southern edge of TA-16 and now decommissioned, was an explosives storage area (Figure 5). The technical area contained five empty storage magazines that were demolished in 2006. These magazine structures were similar in purpose and construction. Each facility was approximately 12 ft by 24 ft in size (Figure 6). The foundation slab and wall

structure for each magazine was cast-in-place concrete. The concrete walls extended up to about 6 ft and acted as a retaining wall against the earthen berm adjacent to each building. The upper 2-ft portion of each structure was wood frame with asbestos shingles. Each roof was wood frame with a low-slope, asphalt granular roofing material. Most of the entry doors were on the south elevation. The doors were hollow metal in metal frames. Earthen berms surrounded the structures on three sides and were covered with vegetation (McGehee *et al.* 2003). Several of the bunkers were used to store small arms (Goldie 1986). In 1999, explosives stored at TA-28 were moved to TA-37 for storage (LANL 2000).

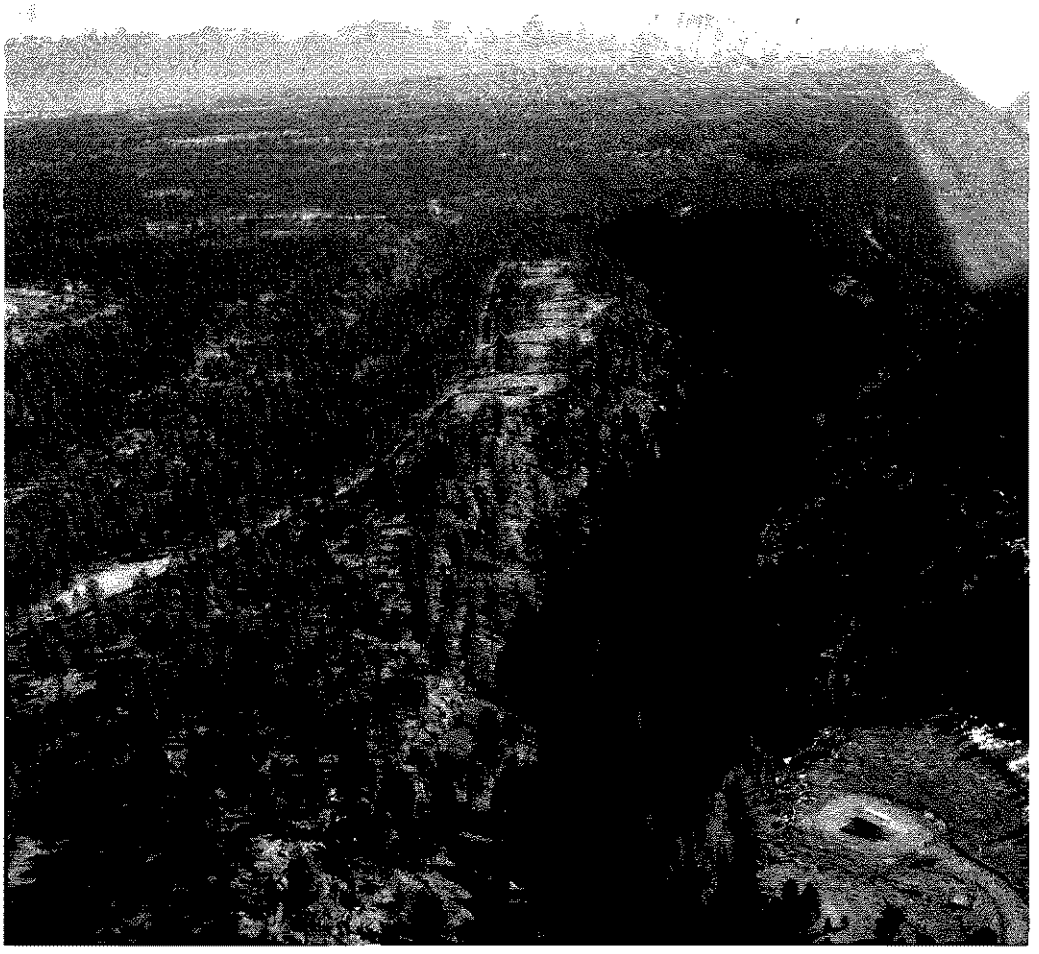


Figure 5. Historic aerial of TA-28 (center) with TA-29 in right foreground, 1946

Figure 6. Typical TA-28 magazine building

Magazine Area B (TA-29)

TA-29 was another explosives storage area, located at an abandoned Civilian Conservation Corps camp (Figures 7 and 8). Two magazines were constructed at TA-29 in 1944 (Bradbury 1947). All structures were removed in 1957 (Dunning 1957). This site was decommissioned in 1958 and 1959 and was absorbed into TA-16 (LANL 1993b).

Figure 7. Historic aerial of TA-29 (center), direction south, 1946

Figure 8. Historic aerial of TA-29, 1946

DESCRIPTION OF TECHNICAL AREA

TA-37 (Magazine Area C)

TA-37 is located in a remote area of the Laboratory on a narrow mesa top (Figures 9 and 10). The technical area is adjacent to the TA-16 high explosives area (S-Site). The site consists of 24 magazines used for the storage of high explosives, a magazine used for storage, two small buildings (an office or guard house and a building possibly used to assemble high explosive components), a water tank, and a septic tank (Map 2).

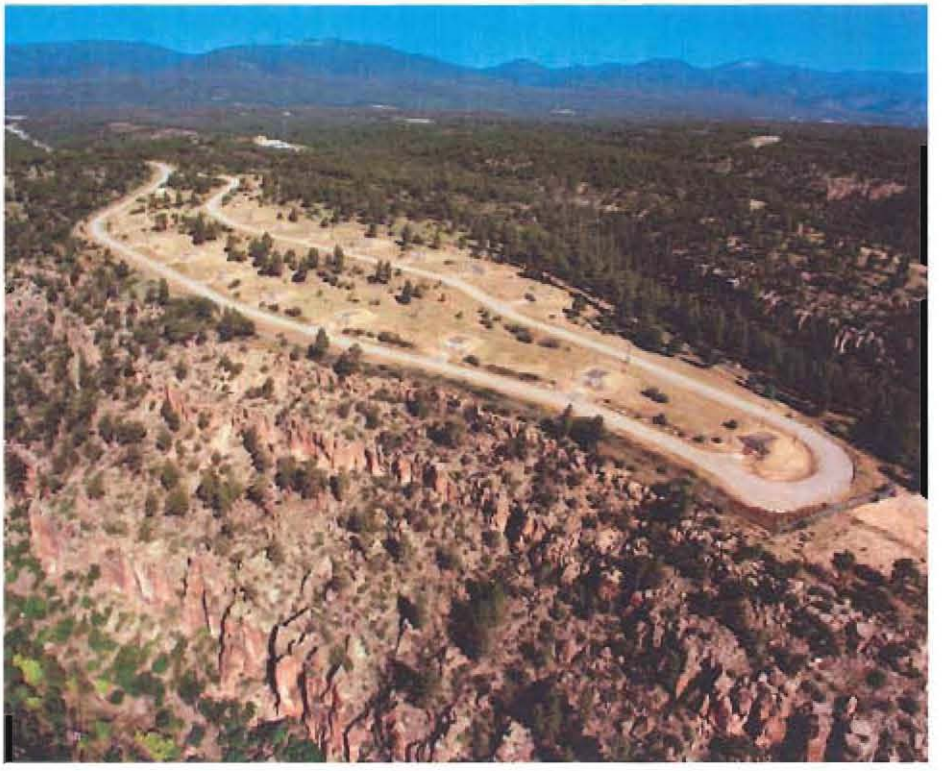


Figure 9. 1991 aerial of TA-37, view to west

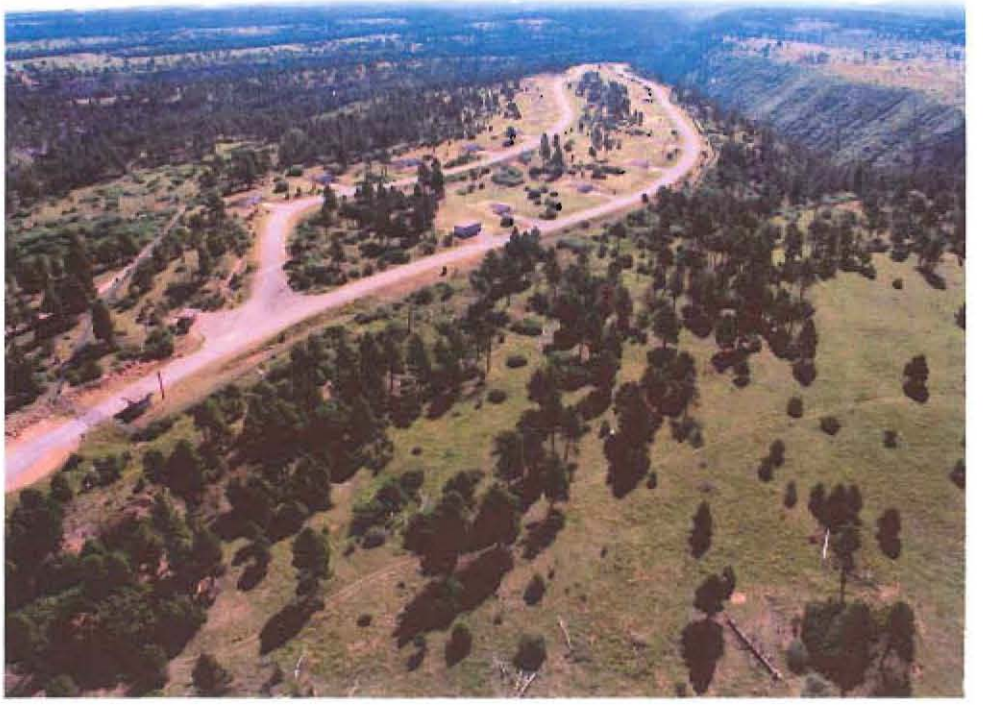
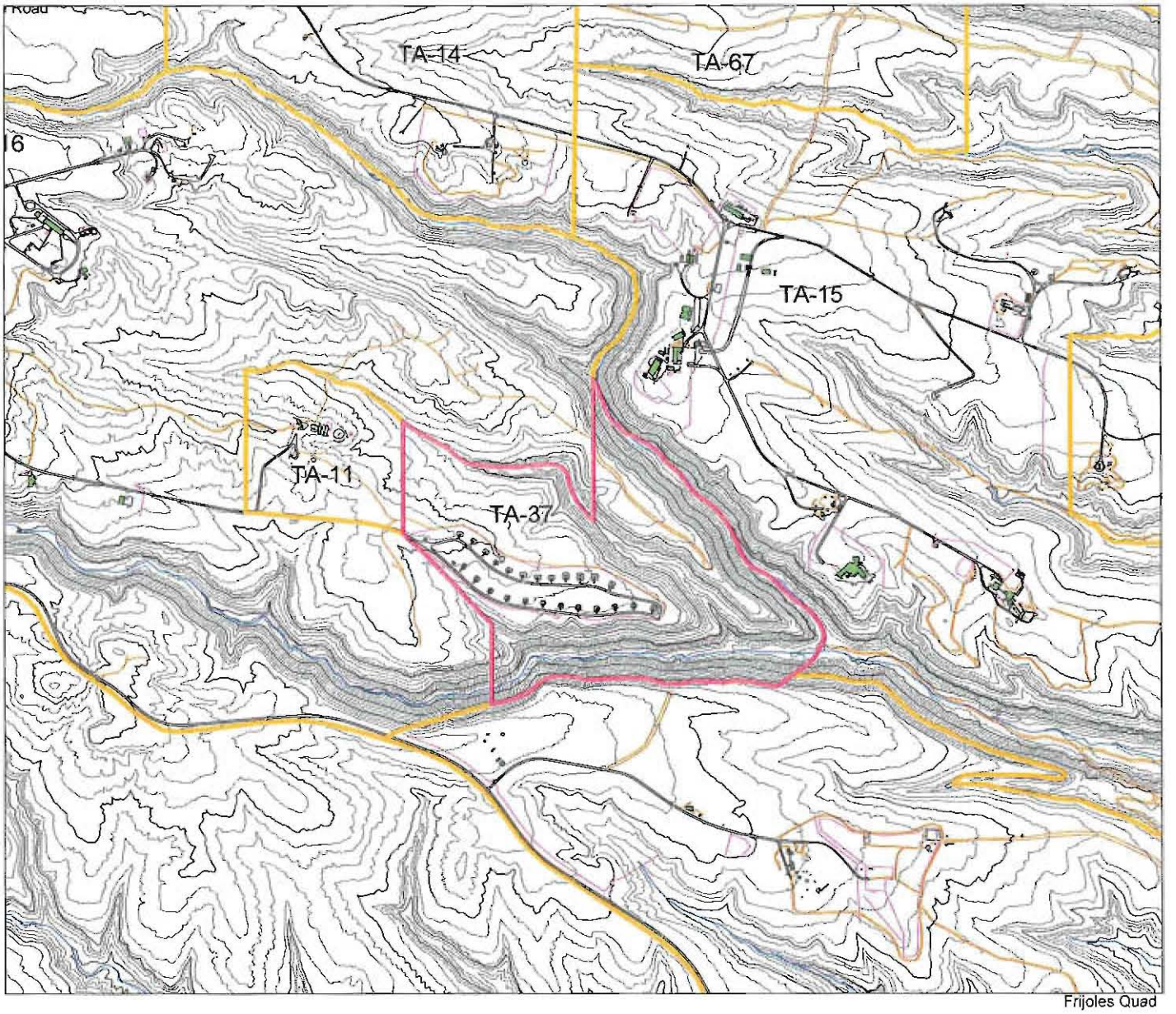


Figure 10. 1991 aerial of TA-37, view to east



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Environmental Protection Division

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TA-37

- Buildings Currently Being Evaluated
- Tech Area 37
- Technical Areas
- LANL Boundary
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- 20 Foot Contours
- 100 Foot Contours
- Roads
- Dirt Roads
- Fences
- Buildings/Structures

Map 2

Historical Background

The bulk explosives used for research during the Manhattan Project and Cold War had to be stored in safe and secure places to prevent hazardous conditions to life and property. One of three primary high explosives storage areas, Magazine Area C, was constructed by 1951, at about the same time that the NTS was established. Since the Cold War era, and continuing to present day, TA-37 has supported research on high explosives by acting as the Laboratory's principal storage area for bulk explosives. The explosives are used in nuclear weapons and for hydrodynamic and other tests related to the Laboratory's responsibilities for the stewardship of the nation's nuclear weapons and for homeland security. Since 1992, using raw explosive materials stored in the magazines at TA-37, Laboratory workers have produced tailored explosive pieces for testing by the Laboratory's stockpile stewardship program or for the subcritical tests being done at the NTS (Goldie 2007).[2]

Site-Specific Safety Standards and Construction Techniques

The 24 magazines, or bunkers, at TA-37 were built according to safety standards initially developed by the Department of Defense Explosives Safety Board, established in 1928 after a major disaster that occurred in 1926 at a naval ammunition depot in New Jersey. The TA-37 magazines were built of reinforced concrete. Their low, barrel-arched roofs were constructed with a kind of steel-wire mesh designed to release pressure in the event of an accidental detonation, thus minimizing the hazard to surrounding areas. Earth berms at the sides of the magazines are designed to dampen the force of a potential explosion, while the "igloo" shape of the magazines directs the force of an accidental explosion upward rather than outward, thus decreasing the chance of causing sympathetic or chain-reaction explosions at adjacent magazines (Goldie 2007; US DOE 1986; US DOD 2007).

Furthermore, the amount of explosive material stored in each igloo-shaped magazine is limited, as is the distance between magazines. The US Army Department of Ordnance issued standards in 1941 mandating that igloo bunkers be located no closer than 400 ft apart and that they be "uniformly staggered to provide a safety distance of 800 ft extending perpendicular to the front from the door of each magazine, through the interval between the nearest magazine of the next row, to the rear end of the nearest magazine of the second row." However, this distance could vary depending on the amount of explosives allowed within a particular magazine and how far that magazine was away from roads, highways, or other buildings. Today, the quantity of explosives allowed and the distance between storage areas are calculated by an empirically derived formula that also factors in the risk assumed or permitted. The use of this formula is mandated by law (Goldie 2007; US DOD 2007).

The US Army also set standards for the size of igloos and their construction techniques, for protection against lightning strikes and fires, for protection against "sympathetic" explosions (in which an explosion in one magazine sets off an explosion in neighboring magazines), and for the maintenance of magazines (Goldie 2007; US Army 1941).

[2] A subcritical experiment does not generate a nuclear explosion.

MULTIPLE PROPERTY METHOD OF EVALUATION

The buildings and structures at TA-37 were evaluated using a multiple property documentation approach. This systematic evaluation serves as a useful tool to determine the historical significance of a group of thematically related properties, such as those located at TA-37. 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 (US NPS 1999). Within the boundaries of TA-37, properties are linked to one or more themes underlying a broader LANL context: *Research, Development, and Testing in Support of the Nuclear Weapons Program.* The buildings and structures are technologically related and date to early and late Cold War time periods at Los Alamos (1942–1990). Following the multiple property documentation approach, properties were linked with one or more historical themes. 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). 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.

There are three general property types associated with TA-37's historical themes.

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

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

3. Support Buildings and Structures such as warehouses, storage buildings, water tanks, and utilities.

Laboratory-processing facilities located at TA-37 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 supported Cold War high explosives research and development and weapon component inspection and verification. Storage magazines (TA-37-3 through -26), identified in this report as "second tier" properties, are considered an essential but secondary type of laboratory-processing facility. High explosives storage magazines do not house key operations; however, research and development activities would not function without them. The office/batch assembly building (TA-37-2), also a "second

tier" property, functioned as a small processing, packaging, and administrative control building for the TA-37 magazine area.

Laboratory-processing facilities are representative of the "industrial vernacular" architectural style prevalent at Los Alamos. Like LANL's other research facilities, the design of TA-37's properties is primarily determined by the nature of the technical area'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.

Security buildings and structures are associated with the general operation of TA-37 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 (TA-37-1) 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 facilities, support facilities are divided into two subcategories. "First tier" support properties are primarily buildings and include machine shops, warehouses (such as TA-37-27), power plants, and significant water tanks. "Second tier" support properties are primarily structures; examples include pump houses and electrical substations.

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. LANL cultural resources personnel have 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-37 can be grouped under one primary theme: Cold War high explosives research, development, testing, and storage in support of the nation's nuclear weapons program. Other historical themes associated with activities at TA-37 include "security." Buildings associated with this second theme include existing guard stations. The themes and associated properties are listed below.

Cold War high explosives research, development, testing, and storage in support of the nation's nuclear weapons program: TA-37-2 through TA-37-27

Security: TA-37-1

Eligibility Criteria

Laboratory-processing 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, 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).

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 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.

PROPERTY DESCRIPTIONS

Technical Area: 37

Building Number: 1
Original Function: Guard Station
Current Function: Vacant
Date Constructed: 1950

Associated Theme: High Explosives Research, Development, Testing, and Storage
Property Type: Security
Integrity: Good
Core: Yes
Eligibility: Yes

Buildings with same floorplan within TA: none

Oblique view of east and north sides

Oblique view of west and south sides

Architectural Description:
TA-37-1 was constructed as a one-story, square-in-plan guard station measuring 13 ft 9 in. by 13 ft 9 in. for a total of 145 ft^2 of usable floor space. The building was constructed with a raised reinforced concrete foundation, floor slab, and walls. Concrete steps and an apron are located on the north and west sides. The steel-framed, very-low-pitched conical roof has 3-ft-deep cantilevered eaves with a tongue and groove wood fascia. The roof is equipped with lightning rods, roof-mounted lights, and an antenna. The single, painted, hollow-metal and ½-glass entry door is located on the building's north side. Three-light, awning style windows are located on the east, north, and west sides while the windows on the south side are two-light units. Additional exterior building elements include pendant-style light fixtures at all four corners, conduit, minor signage, and a fire extinguisher.

Historical Background:
This guard station originally served as an interior (non-perimeter) security access control point into the TA-37 Magazine Area. This building played a support role in the Laboratory's mission of high explosives research, development, testing, and storage.

Determination of Eligibility:
This building meets National Register of Historic Places criteria because 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-37. The

building is significant under Criterion A due to its association with the Laboratory's Cold War nuclear weapons program. This building is also eligible under Criterion C for its characteristic design related to security support at the Laboratory.

Technical Area: 37

Building Number: 2
Original Function: Office/Batch Assembly
Current Function: Vacant
Date Constructed: 1950

Associated Theme: High Explosives Research, Development, Testing, and Storage
Property Type: Laboratory/Processing
Integrity: Good
Core: Yes
Eligibility: Yes

Buildings with same floorplan within TA: none

Oblique view of west and south sides

Oblique view of east and north sides

Architectural Description:
TA-37-2 is a one-story, rectangular-in-plan building measuring 12 ft by 16 ft. The building was constructed with a reinforced concrete slab foundation, reinforced concrete walls, and a concrete apron on two sides. The building also has a steel-framed, very slightly pitched hipped roof with 4-ft eaves on all four sides with the soffits enclosed with square metal pans. Tongue and groove boards complete the fascia on the roof edge. The roof is covered with a three-ply tar and gravel roof and lightning rods. The main entrance is located on the south side and consists of a hollow-metal painted door with ½ glazing and a metal mesh screen. A second, hollow-metal painted door is located on the east side of the building. Windows consists of three-light, awning style units again covered with mesh security screens. Additional features on the building are pendant-style light fixtures at all four corners, signage, a fire extinguisher, a junction box, and metal conduit.

Historical Background:
This building functioned as a high explosives batch assembly and packaging building and small office.

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-37. The building is significant under Criterion A due to its association with Cold War high explosives research, development, and storage activities in support of the Laboratory's nuclear weapons program. This building is also eligible under Criterion C for its characteristic design related to high explosives research and storage.

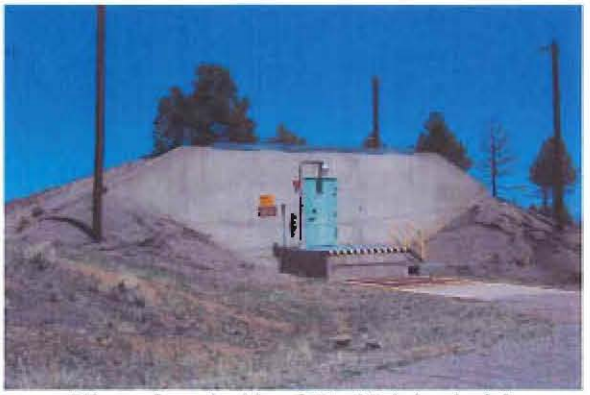
Technical Area: 37

Building Number: 3

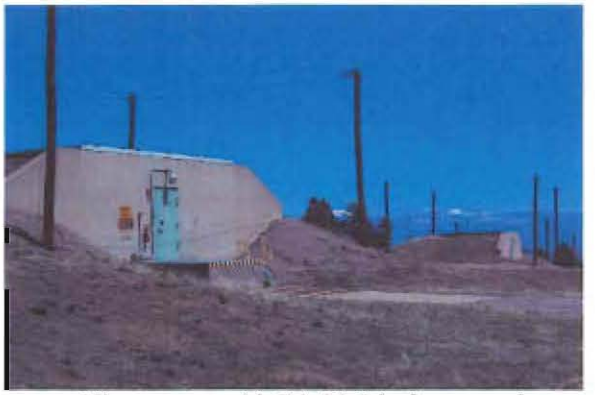
Original Function: Magazine
Current Function: Magazine 3 is vacant. Magazines 4, 5, 6, 7, 8, 9, & 10 are in use.
Date Constructed: 1950

Associated Theme: High Explosives Research, Development, Testing, and Storage
Property Type: Laboratory/Processing (2nd Tier)
Integrity: Good
Core: Yes
Eligibility: No-Magazines 3, 4, 5, 7, 8, & 10
Yes- Magazines 6 & 9

Buildings with same floorplan within TA: TA-37-4, -5, -6, -7, -8, -9, -10



View of south side of TA-37-3 (typical for all eight of these magazines)



View to east with TA-37-7 in foreground and TA-37-8 in background

Architectural Description:
TA-37-3 is one of eight virtually identical magazines within this technical area. These magazines are one-story, rectangular-in-plan structures with an exterior measurement of 24 ft by 16 ft. The single interior rooms contain 336 ft^2 of usable floor space. The structures are constructed with reinforced concrete foundations, 1-ft-thick reinforced concrete floor slabs, and 1-ft-thick reinforced concrete walls. The flat roofs were constructed with 12-in. deep bar joists finished with three-ply, built-up tar and gravel roofing.

View to east with TA-37-10 in foreground and TA-37-9 in background

The south (front) walls and roofs are exposed while the remaining three walls are covered with compacted earth. One-ft thick angled wing walls extend from the magazines to a length of 11 ft on both the east and west sides. The wing walls serve as a retaining system for the surrounding compacted earth. In the event of an explosion, the compacted earth provides additional blast protection by helping to partially contain the contents within the structures. Compacted earth adjacent to the dock areas is covered with an asphalt material that prevents the soil from sliding down onto the concrete apron in front of the docks.

Single reinforced metal doors are set within the face of the exposed walls and provide the only access into the magazines. The magazines are further equipped with wall-mounted light fixtures over the doors, explosion-proof switches, conduit, fire extinguishers, and informational signage. Four lightning rods mounted on wooden poles are located at each of the four corners of the magazines. Concrete loading docks measuring 10 ft wide by 8 ft deep by 2 ft 8 in. high extend perpendicular to the face of the magazines. A 25-ft-long by 18-ft-wide concrete drive is located in front of the loading docks. The loading docks have been coated with a non-sparking conductive floor finish. Steel steps provide access to the loading docks from the concrete aprons below.

Historical Background:
These magazines have continuously served as reinforced storage facilities for high explosives.

Determination of Eligibility:
These buildings meet National Register of Historic Places criteria in that they possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, buildings TA-37-6 and TA-37-9 are eligible for inclusion on the Register as significant properties within TA-37. These buildings are significant under Criterion A due to their association with Cold War high explosives research, development, testing, and storage activities in support of the Laboratory's nuclear weapons program. There are other buildings within TA-37 built on the same or similar floor plan (TA-37-3, -4, -5, -7, -8, and -10). Buildings TA-37-6 and TA-37-9 are the best examples of this property type and style. These buildings are also eligible under Criterion C for their characteristic design related to high explosives research and storage.

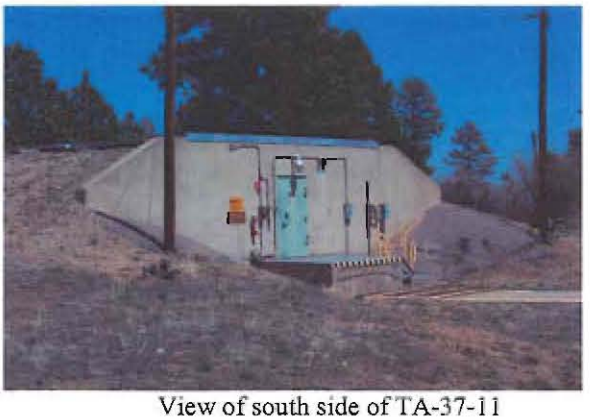
Technical Area: 37

Building Number: 11

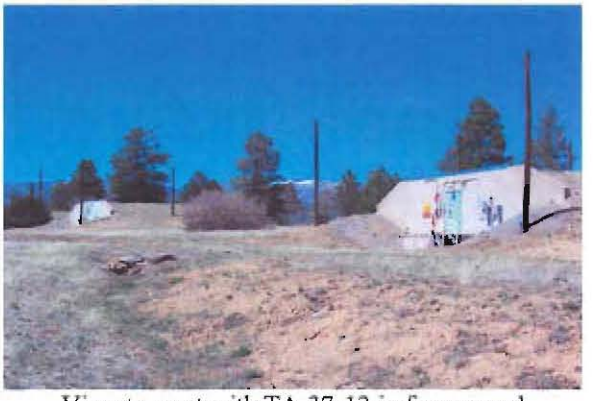
Original Function: Magazine
Current Function: Magazines 11, 12, & 13 are in use.
Date Constructed: 1950

Associated Theme: High Explosives Research, Development, Testing, and Storage
Property Type: Laboratory/Processing (2nd Tier)
Integrity: Good
Core: Yes
Eligibility: No-Magazines 11 & 13
Yes-Magazine 12

Buildings with same floorplan within TA: TA-37-12, -13



View of south side of TA-37-11
(typical for all of these magazines)



View to west with TA-37-13 in foreground and TA-37-12 in background

Architectural Description:
TA-37-11 is one of three virtually identical magazines within this technical area.

These magazines are one-story, rectangular-in-plan structures with an exterior measurement of 28 ft by 44 ft. The single interior rooms contain 1008 ft^2 of usable floor space. The structures are constructed with reinforced concrete foundations, 1-ft thick reinforced concrete floor slabs, and 1-ft-thick reinforced concrete walls. The flat roofs were constructed with 12-in.-deep bar joists finished with three-ply, built-up tar and gravel roofing.

The south (front) walls and roofs are exposed while the remaining three walls are covered with compacted earth. One-ft-thick angled wing walls extend from the magazines to a length of 11 ft on both the east and west sides. The wing walls serve as a retaining system for the surrounding compacted earth. In the event of an explosion, the compacted earth provides additional blast protection by helping to partially contain the contents within the structures. Compacted earth adjacent to the dock area has been covered with an asphalt material that prevents the soil from sliding down onto the concrete aprons in front of the docks.

Single reinforced metal doors are set within the face of the exposed walls and provide the only access into the magazines. The magazines are further equipped with wall mounted light fixtures over the doors, fire extinguishers, explosion-proof switches, amber warning lights, conduit and junction boxes, and informational signage. Four lightning rods mounted on wooden poles are

located at each of the four corners of the magazines. Concrete loading docks measuring 10 ft wide by 8 ft deep by 2 ft 8 in. high extend perpendicular to the face of the magazines. The loading docks and the interior floors of the magazines have been coated with a non-sparking conductive floor finish. Steel steps provide access to the loading docks from the concrete aprons below.

Historical Background:
These magazines have continuously served as reinforced storage facilities for high explosives.

Determination of Eligibility:
Building TA-37-12 meets National Register of Historic Places criteria in that it possesses integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, building TA-37-12 is eligible for inclusion on the Register as a significant property within TA-37. This building is significant under Criterion A due to its association with Cold War high explosives research, development, testing, and storage activities in support of the Laboratory's nuclear weapons program. There are other buildings within TA-37 built on the same or similar floor plan (TA-37-11 and -13). Building TA-37-12 is the best example of this property type and style. This building is also eligible under Criterion C for its characteristic design related to high explosives research and storage.

Technical Area: 37

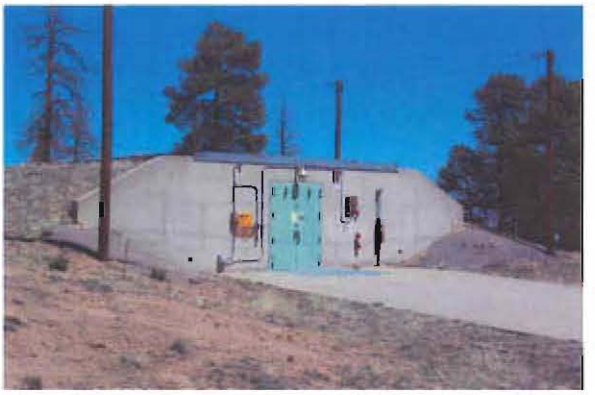
Building Number: 14

Original Function: Magazine
Current Function: Magazine in use.
Date Constructed: 1950

Associated Theme: High Explosives Research, Development, Testing, and Storage
Property Type: Laboratory/Processing (2nd Tier)
Integrity: Good
Core: Yes
Eligibility: Eligible

Buildings with same floorplan within TA: none

Architectural Description:
TA-37-14 is very similar to 16 other magazines (TA-37-11 through TA-37-26) within this technical area. The difference between the other magazines and this magazine is that TA-37-14 is located at grade level and has a double door.


View of south side of TA-37-14

The magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 28 ft by 44 ft. The single interior room contains 1008 ft^2 of usable floor space. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in.-deep bar joists finished with three-ply, built-up tar and gravel roofing.

The south (front) wall and roof are exposed while the remaining three walls are covered with compacted earth. One-ft-thick angled wing walls extend from the magazine to a length of 11 ft on both the east and west sides. The wing walls serve as a retaining system for the surrounding compacted earth. In the event of an explosion, the compacted earth provides additional blast protection by helping to partially contain the contents within the structure. Compacted earth adjacent to the dock area has been covered with an asphalt material that prevents the soil from sliding down onto the concrete apron in front of the dock.

A pair of painted metal doors is set at grade level within the face of the exposed wall, providing the only access into the magazine. The magazine is further equipped with a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, and informational signage. Six lightning rods mounted on wooden poles surround the magazine on three sides. A concrete apron extends perpendicular to the face of the magazine. The area immediately in front of the doors has been painted with a non-sparking conductive floor finish.

Historical Background:
This magazine has continuously served as a reinforced storage facility for high explosives.

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-37. This building is significant under Criterion A due to its association with Cold War high explosives research, development, testing, and storage activities in support of the Laboratory's nuclear weapons program. This building is also eligible under Criterion C for its characteristic design related to high explosives research and storage.

Technical Area: 37

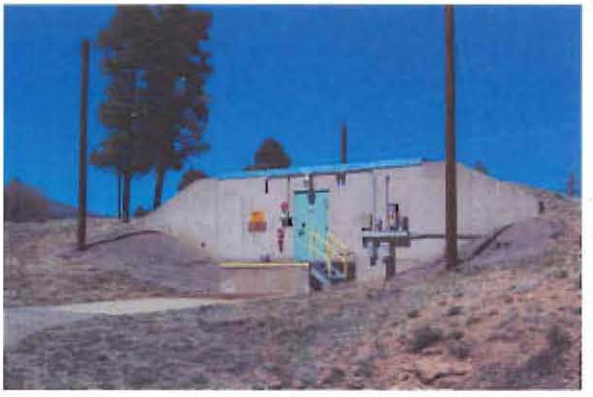
Building Number: 15

Original Function: Magazine
Current Function: Magazines 15, 16, 17, & 18 are vacant. Magazines 19, 20, 21, 22, 23, 24, 25, & 26 are in use.
Date Constructed: 1950

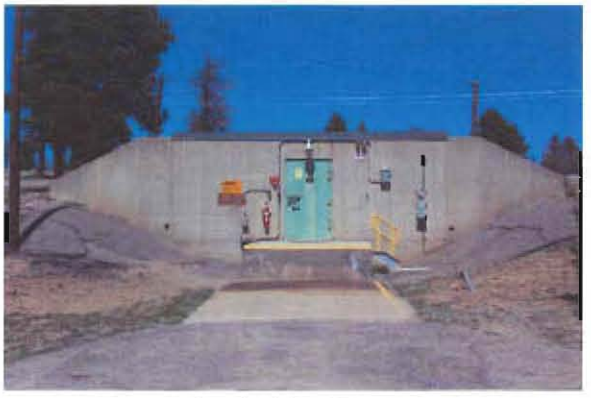
Associated Theme: High Explosives Research, Development, Testing, and Storage
Property Type: Laboratory/Processing (2nd Tier)
Integrity: Good
Core: Yes
Eligibility: No-Magazines 15, 16, 17, 18, 19, 21, 22, 23, 24, & 26
Yes-Magazines 20 & 25

Buildings with same floorplan within TA: TA-37-16, -17, -18, -19, -20, -21, -22, -23, -24, -25, & -26

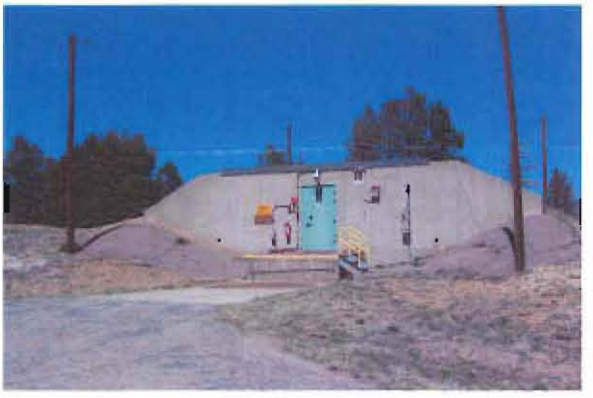
View to west with TA-37-17 in foreground and TA-37-27 in background



South side of TA-37-19



South side of TA-37-22



View of TA-37-26

Architectural Description:
TA-37-15 is one of 12 virtually identical magazines within this technical area. These magazines are one-story, rectangular-in-plan structures with an exterior measurement of 25 ft by 32 ft. The single interior rooms contain 660 ft^2 of usable floor space. The structures are constructed with reinforced concrete foundations, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick

reinforced concrete walls. The flat roofs were constructed with 12-in.-deep bar joists finished with three-ply, built-up tar and gravel roofing.

The south (front) walls and roofs are exposed while the remaining three walls are covered with compacted earth. One-ft-thick angled wing walls extend from the magazines to a length of 11 ft on both the east and west sides. The wing walls serve as a retaining system for the surrounding compacted earth. In the event of an explosion, the compacted earth provides additional blast protection by helping to partially contain the contents within the structures. Compacted earth adjacent to the dock areas has been covered with an asphalt material that prevents the soil from sliding down onto the concrete aprons in front of the docks.

Single reinforced metal doors are set within the face of the exposed walls, providing the only access into the magazines. The magazines are further equipped with wall-mounted light fixtures over the doors, fire extinguishers, explosion-proof switches, amber warning lights, conduit and junction boxes, and informational signage. Four lightning rods mounted on wooden poles are located at each of the four corners of the magazines. Concrete loading docks measuring 10 ft wide by 8 ft deep by 2 ft 8 in. high extend perpendicular to the face of the magazines. Concrete pads, 25 ft long by 18 ft wide, extend from the docks. The loading docks and the interior floor of the magazines have been coated with a non-sparking conductive floor finish. Steel steps provide access to the loading docks from the concrete aprons below.

Historical Background:
These magazines have continuously served as reinforced storage facilities for high explosives. TA-37-25 specifically held high explosives assemblies containing depleted uranium.

Determination of Eligibility:
These buildings meet National Register of Historic Places criteria in that they possess integrity of location, design, setting, materials, workmanship, feeling, and association. In addition, buildings TA-37-20 and TA-37-25 are eligible for inclusion on the Register as significant properties within TA-37. These buildings are significant under Criterion A due to their association with Cold War high explosives research, development, testing, and storage activities in support of the Laboratory's nuclear weapons program. There are other buildings within TA-37 built on the same or similar floor plan (TA-37-15, -16, -17, -18, -19, -21, -22, -23, -24, and -26). Buildings TA-37-20 and TA-37-25 are the best examples of this property type and style. These buildings are also eligible under Criterion C for their characteristic design related to high explosives research and storage.

Technical Area: 37

Associated Theme: High Explosives Research, Development, Testing, and Storage

Building Number: 27
Original Function: Storage Building
Current Function: Vacant
Date Constructed: 1951

Property Type: Support
Integrity: Good
Core: No
Eligibility: No

Buildings with same floorplan within TA: none

Front side (south)

Oblique view of west and north sides

Architectural Description:

Oblique view of east and north sides. Note concrete gutter in foreground of photo.

TA-37-27 is a one-story, rectangular-in-plan building measuring 40 ft by 20 ft with an interior floor area of 741 ft^2. The building was constructed with a raised concrete foundation and floor slab and steel frame walls sheathed with galvanized corrugated steel panels. An angled concrete retaining wall extends off the east end of the building, equal with the edge of the dock. The low-pitched shed roof consists of a built-up roofing system with a tar and gravel top coat and lightning rods. A 2-in. by 4-in. wood fascia completes the edge of the roof on all four sides. To assist with rain run-off, a ground-level concrete gutter was installed on the north side of the building. The only entrance into the building is from the south side. The dock area has been enclosed. Concrete steps, located on both ends of the dock, now terminate at the front wall with very little dock area remaining. A large, sliding galvanized steel door is located in the center of the south wall. The building also contains pendant light fixtures and signage on the south side and a covered junction box on the west side.

Historical Background:
This building continuously served as a storage facility for non-high explosives materials and maintenance supplies for the entire technical area.

Determination of Eligibility:
This building does not qualify for listing on the National Register of Historic Places as a significant property within TA-37 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 2004 and 2007, historic property surveys were conducted at TA-37 (Map 3). Of the 27 properties evaluated for Register eligibility, eight were determined eligible under Criteria A and C. Historically, these properties supported research, development, testing, and storage in support of the nuclear weapons program during the Cold War.

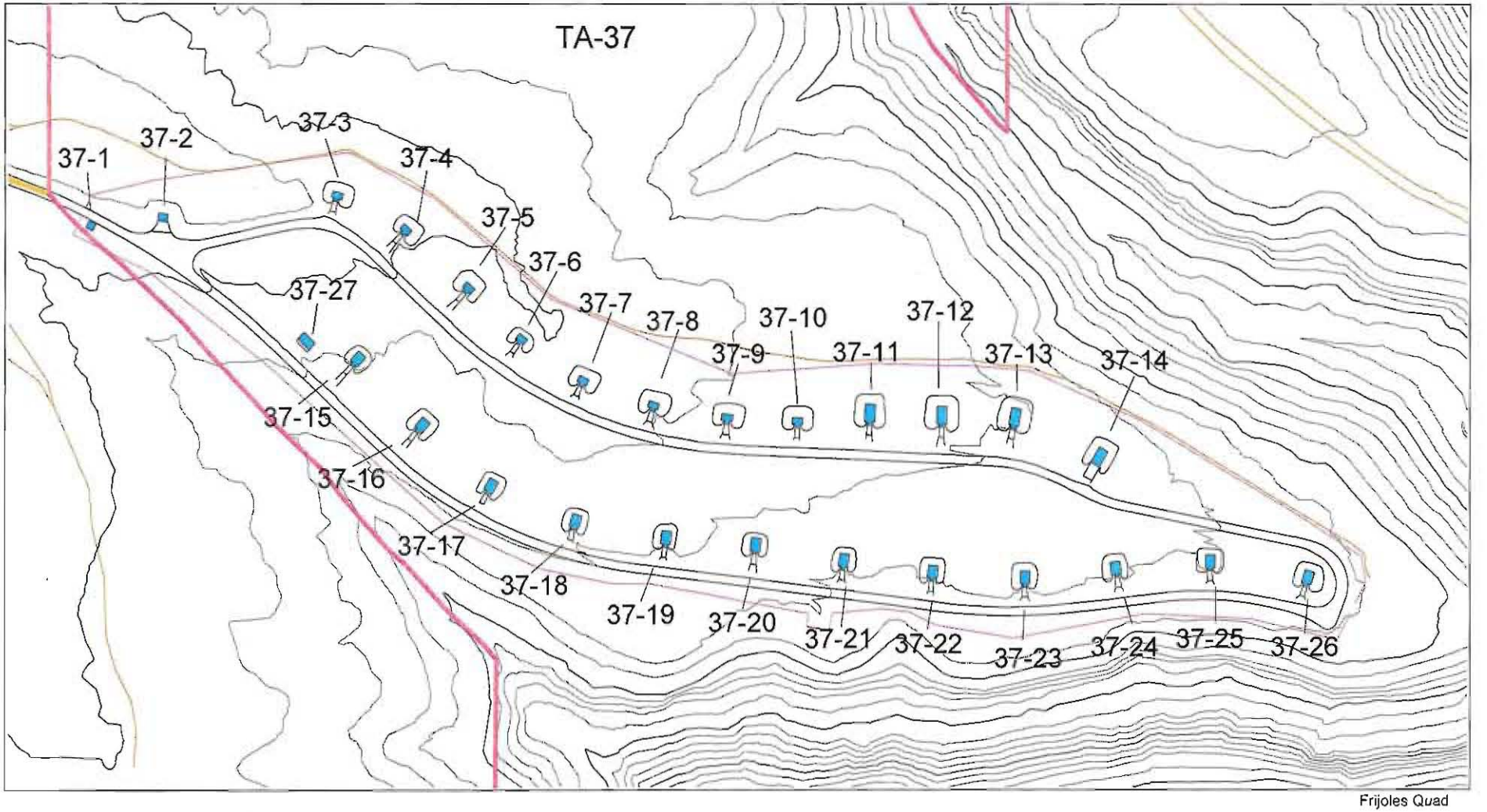
Table 1 lists evaluated buildings located at TA-37 that are eligible for listing on the Register.

Table 1. Eligible TA-37 Properties

Property Number	Original Use	Date	Associated Themes	Property Type	Integrity	Core
37-1	Guard Station	1950	High Explosives Research, Development, Testing, and Storage	Security	Good	Y
37-2	Office/Batch Assembly	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing	Good	Y
37-6	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2^{nd} Tier)	Good	Y
37-9	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2^{nd} Tier)	Good	Y
37-12	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2^{nd} Tier)	Good	Y
37-14	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2^{nd} Tier)	Good	Y
37-20	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2^{nd} Tier)	Good	Y
37-25	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2^{nd} Tier)	Good	Y
Total Number of Eligible Properties	**8**					

Properties Determined Ineligible 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



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

TA-37
Buildings Currently Being Evaluated

N
W E
S

- Buildings Currently Being Evaluated
- Tech Area 37
- LANL Boundary
- Technical Areas
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- 20 Foot Contours
- 100 Foot Contours
- Roads
- Dirt Roads
- Fences
- Exempt Buildings/Structures

1:4500

200 0 200 400 Feet

60 0 60 120 Meters

Map 3

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 properties located at TA-37 that are not eligible for listing on the Register.

Table 2. Ineligible TA-37 Properties

Property Number	Original Use	Date	Associated Themes	Property Type	Integrity	Core
37-3	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-4	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-5	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-7	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-8	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-10	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-11	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-13	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-15	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y

Property Number	Original Use	Date	Associated Themes	Property Type	Integrity	Core
37-16	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-17	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-18	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-19	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-21	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-22	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-23	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-24	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-26	Magazine	1950	High Explosives Research, Development, Testing, and Storage	Laboratory/ Processing (2nd Tier)	Good	Y
37-27	Storage	1951	High Explosives Research, Development, Testing, and Storage	Support	Good	N
Total number of non-eligible properties	**19**					

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Appendix A – Historic Building Inventory Forms with Selected Photographs and Building Drawings for all Properties at TA-37

LANL TA- Building # 37-0001

Camera PN #984242

Frame #s DCP_ 0223 thru DCP_0225, DCP_2270 & DCP_2271

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Guard Station UTMs easting 380713 northing 3966209 zone 13

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

Current Use/ Function Vacant Original Use/ Function Guard Station

Date (estimated) 1950 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 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 framed

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

Other Window Type Awning

# of Each Window Type/ Comments Three-light, awning style windows are located on the east, north, and west sides while the windows on the south side are two-light units.

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

Light Pattern: Three-light and two-light units

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: 1 door on north 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: TA-37-2 through TA-37-27

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 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 building measuring 13 ft 9 in. by 13 ft 9 in. The building was constructed with a raised reinforced concrete foundation, floor slab, and walls. Concrete steps and an apron are located on the north and west sides. The steel-framed, very low pitched conical roof has 3-ft-deep cantilevered eaves with a tongue and groove wood fascia. The roof is equipped with lightening rods, roof-mounted lights, and an antenna. The single, painted, hollow-metal and ½-glass entry door is located on the building's north side. Three-light, awning style windows are located on the east, north, and west sides while the windows on the south side are two-light units.

Total sq ft 145 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 1797
Sheet 5 of 37
Bldg No. 3701 (MAC-1), [TA-37-1]
Plan, Elevations & Details
June 3, 1949

ENG-C 1804
Sheet 12 of 37
Bldg. No. 3701 (MAC-1), [TA-37-1]
Heating and Plumbing
June 3, 1949

ENG-R 3076
TA-37 Bldg MAC-1, [TA-37-1]
Office Building
Floor Plan
July 8, 1964
Revised to status of June 8, 1984

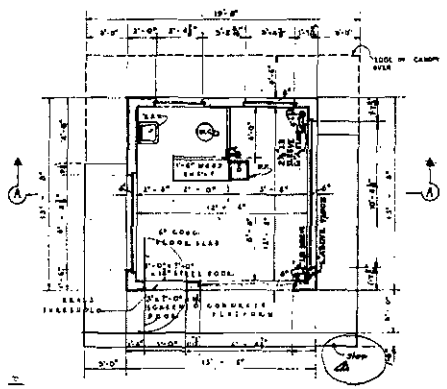
ENG-C 1797
Sheet 5 of 37
Bldg No. 3701 (MAC-1), [TA-37-1]
Plan, Elevations & Details
June 3, 1949
Updated November 28, 2007

TA-37-1 North Elevation

TA-37-1 East Elevation

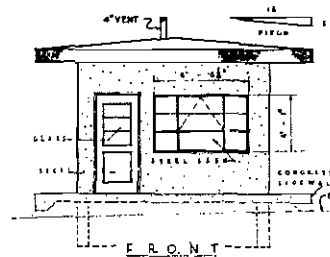
TA-37-1 South Elevation

TA-37-1 West Elevation



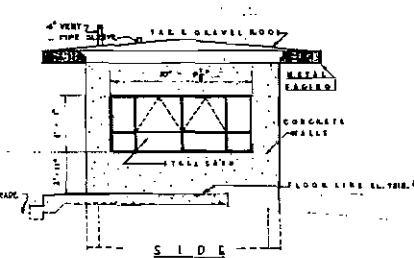
FLOOR PLAN

SCALE 1/4"=1'-0"



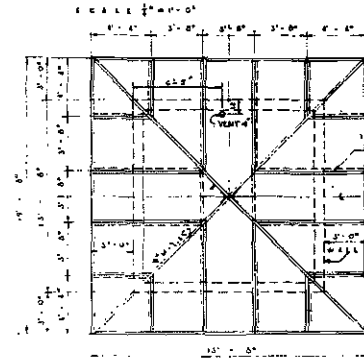
FRONT

SCALE 1/4"=1'-0"



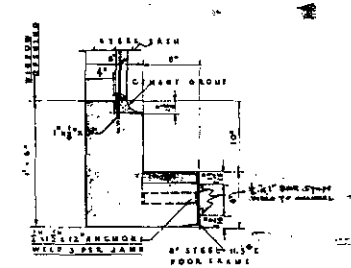
SIDE

SCALE 1/4"=1'-0"



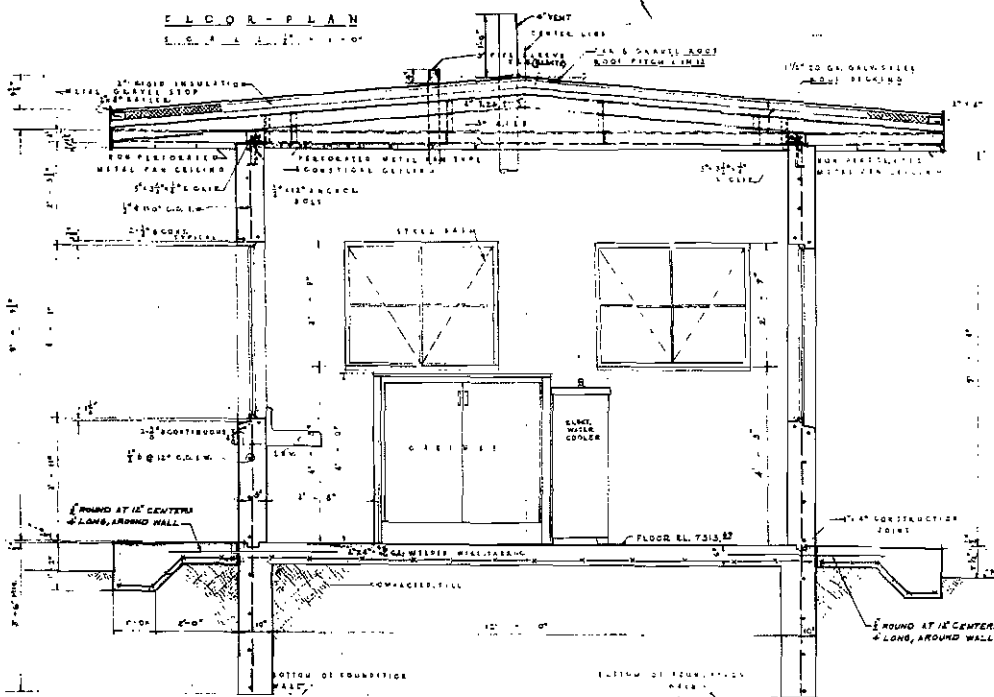
ROOF FRAMING

SCALE 1/4"=1'-0"



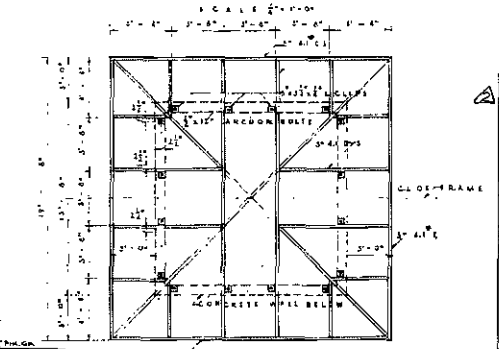
DETAIL OF DOOR JAMB

SCALE 1/4"=1'-0"



SECTION A-A

SCALE 1/4"=1'-0"



CEILING FRAMING

SCALE 1/4"=1'-0"

REFERENCE DRAWINGS

FOR PLUMBING & HEATING SEE FILE NO. 1506

FOR ELECTRICAL LAYOUT SEE FILE NO. 1539

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO AT(29-1)729

James J. Lacey

GENERAL NOTES

ALL EXPOSED CONCRETE WALL SURFACES SHALL BE FINISHED WITH 2 COATS OF PORTLAND CEMENT PAINT COLORED

THE CONTRACTOR SHALL PROVIDE 4-4"x6" PITCH POCKETS ON THE ROOF AT LOCATIONS PINPOINTED BY CONTRACTING OFFICER.

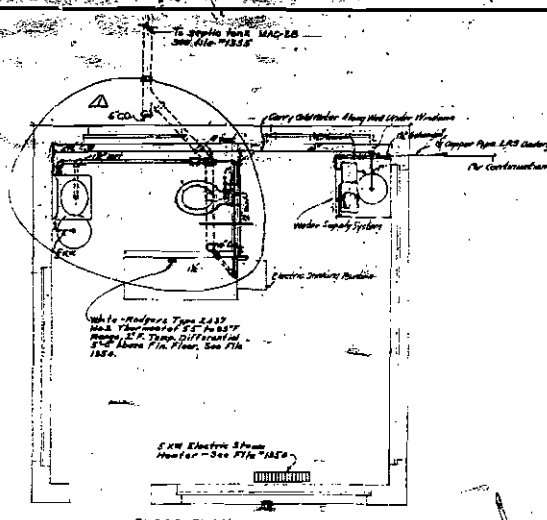
INTERIOR CONCRETE WALLS METAL & WOODWORK SHALL BE PAINTED WITH 2 COATS OF LEAD & OIL PAINT.

CONCRETE SHALL BE TYPE "A" AND SHALL DEVELOP A STRENGTH OF 3000 PSI @ 28 DAYS

MIX 1 SACK CEMENT DISPLACING PER SACK OF CEMENT REINF STEEL TO BE INTERMEDIATE GRADE

	PLAN, ELEVATIONS & DETAILS OF BLDG.- NO. 3701(MAC-1)	FILE NO. 1312
	LOS ALAMOS TA-37 NEW MEXICO	DRAWN G.W.R. CHECKED W.B.C. APPROVED W.S.
	BLACK & VEATCH CONSULTING ENGINEERS	DATE 1949
		SHEET 5 OF 38

LAB JOB 186 L.A.S.L.DWG.NO.ENG-C 1797 SPA-EF-1152



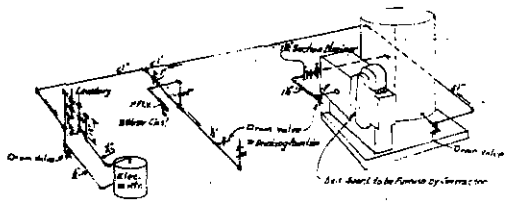
FLOOR PLAN
SCALE 1/8"=1'-0"

REFERENCE FILES

File No 1855 Plan Profile Sewer & Water
File No 1812 Arch. Plan, Elevation & Details

NOTES

Water Supply System Pump & Hand Unit To Be Duplex Type NSWTD
Unit Capacity 84.5 G.P.M. @ Maximum 1191 of Dyn. To Manufactured By
Jos. D. Cook Inc. Lawrence burg Indiana. Subject to Approval Test Specs.
Water Closet Crane #9-360 Wide 17" Flushometer Valve Number
Lavatory Crane #K-810
Water Cooler Heater To Be Bargain Hour Type Model #6675
Complete With Anti Backflash Coupler
All Soil & Vent Pipe to be Schedule 40 Steel Pipe Except as Noted.
All Water Lines to be Galvanized
All Cast Liners to be Black Pipe
All Water Pipes to Perform Shall Have 18" High Air Cushion
All Locations of Pipe & Pipe Connections are Approximate and
Shall Conform to Field Conditions
Equipment Equal to That Specified Will be Acceptable
Electric Water Heater Model 681 Load 25" High x 15" Dia. High
As Manufactured By Bersen & Kampf Marshall, Michigan



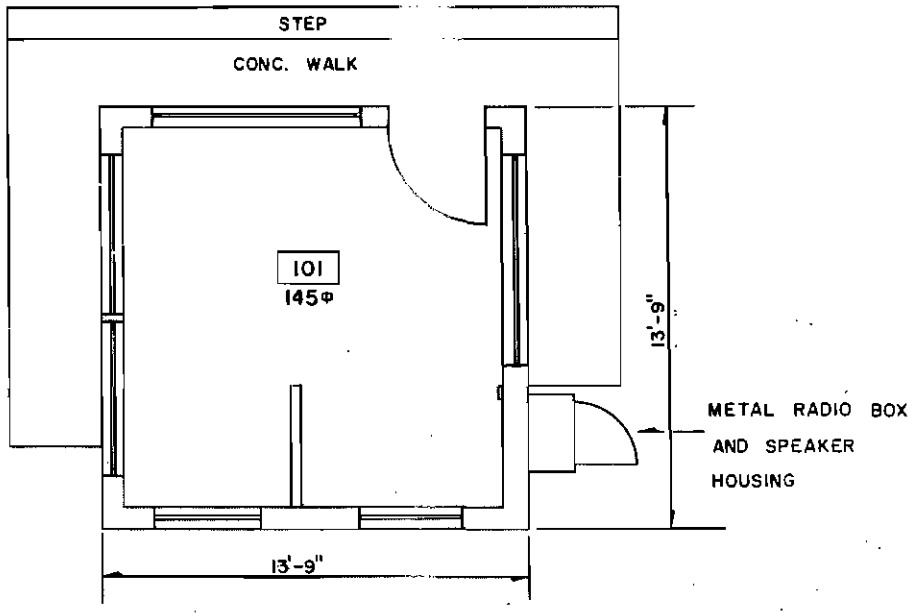
SCHEMATIC DRAWING OF WATER SYSTEM PIPING & CONN'S.
NO SCALE

SCALE AS NOTED

CONSTRUCTED DRAWING
CONSTRUCTION CONTRACT NO. AT(29-1)1129
SUBMITTED
RECOMMENDED
APPROVED

HEATING PLUMBING
BLDG. NO 3701(MAC-1)
LOS ALAMOS TA 37 NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS
REVISED TITLE 6-5-52
Changed C.I. piping
DESIGNED V.D. Baker 6-3-49
DRAWN F.A. Linton
CHECKED Ezra Lehman
DATE 6-3-49
SHEET 12 OF 37
FILE NO. 1350
DRAWN E.R.C.
CHECKED P.H.E.
APPROVED J.V.S.

LAB JOB 186
L.A.S.L.DWG.NO.ENG-C 1804
SFA-EF-1/12.1



0 1 2 3 4 5 6 7 8 9 10

1/4"=1'-0"

GRAPHIC SCALE

TOTAL SQ. FT. 145

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	H&N		

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

FACILITIES ENGINEERING DIVISION

OFFICE BUILDING
FLOOR PLAN

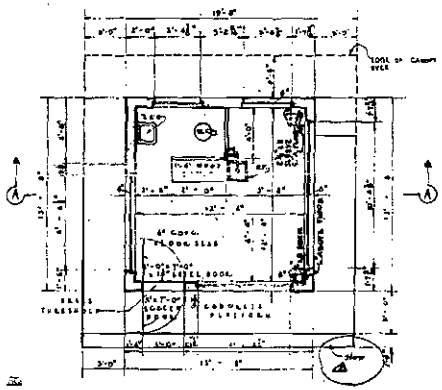
BLDG. MAC-1 TA-37

SEC. CLASSIFICATION: CLASS. U; REVIEWER; DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED

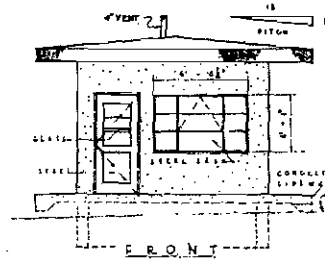
DRAWN	DATE	SHEET NO.	DRAWING NO.
WIMBERLEY	7-8-64	1 OF 1	ENG-R 3076
CHECKED			

K+E ALBUQUERQUE® LA 0617



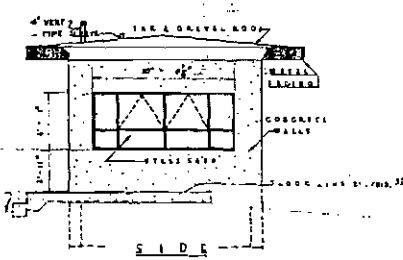
FLOOR PLAN

SCALE 1/4"=1'-0"



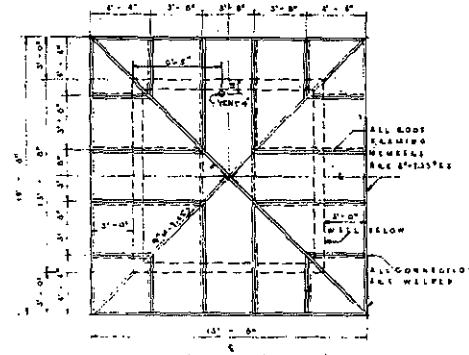
FRONT

SCALE 1/4"=1'-0"



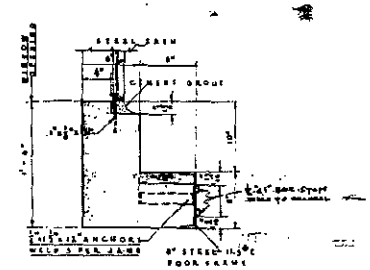
SIDE

SCALE 1/4"=1'-0"



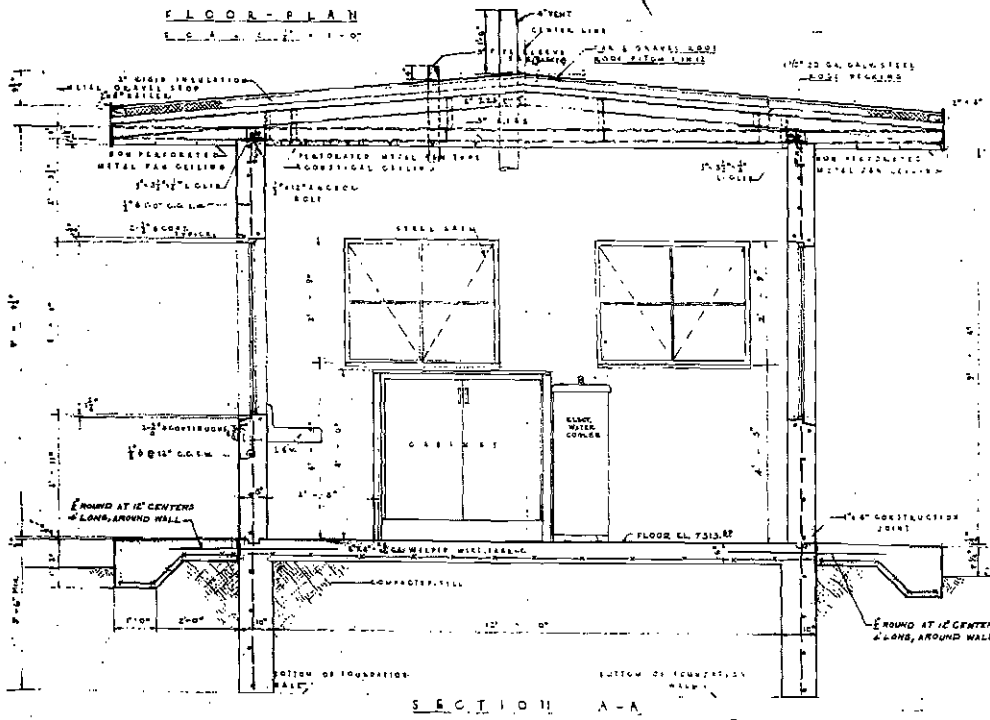
ROOF FRAMING

SCALE 1/4"=1'-0"



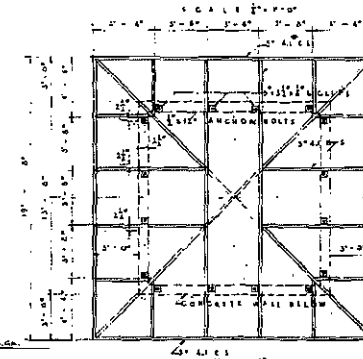
DETAIL OF DOOR JAMB

SCALE 1/4"=1'-0"



SECTION A-A

SCALE 1/4"=1'-0"



CEILING FRAMING

SCALE 1/4"=1'-0"

REFERENCE DRAWINGS

FOR PLUMBING & HEATING SEE FILE NO. 1350

FOR ELECTRICAL LAYOUT SEE FILE NO. 1339

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO AT(29-1)-773

GENERAL NOTES

ALL EXPOSED CONCRETE WALLS CONTAINED I SHALL BE FORMED WITH A LIGHT WOOD MATERIAL

PVC CONTRACTION SHALL PROVIDE 6"x6"x6" PITCH POCKETS ON THE ROOF AT LOCATIONS DIRECTED BY CONTRACTING OFFICER.

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

CONCRETE SHALL BE TYPE "A" AND SHALL DEVELOP A STRENGTH OF 3000 PSI. @ 28 DAYS

MIX 5½ GAL CEMENT DISPERSED PER SACK OF CEMENT

	PLAN, ELEVATIONS & DETAILS OF BLDG. NO. 3701 (MAC-1)		FILE NO. 1312	
	LOS ALAMOS TA-37 NEW MEXICO		DRAWN G.W.P.	
	BLACK & VEATCH CONSULTING ENGINEERS		CHECKED W.S.C.	
			APPROVED [illegible]	
			DATE 1947	
			SHEET 5	OF 37

LAB JOB 186 -L.A.S.L. DWG. NO. ENG-C 1797 SFA-EF-1/5.2

LANL TA- Building # 37-0002

Camera PN #984242

Frame #s DCP_0227 thru DCP_0230, DCP_2268 & DCP_2269

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Office and Batch Assembly UTMs easting 380768 northing 3966215 zone 13

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

Current Use/ Function Vacant Original Use/ Function Office and Batch Assembly

Date (estimated) 1950 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

Exterior Treatment (painted, stuccoed, etc)

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

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 Steel framed, very slightly pitched hipped roof with 4-ft eaves on all four sides with the soffits enclosed with square metal pans.

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

Other Window Type Awning

# of Each Window Type/ Comments Windows consists of three-light, awning style units covered with mesh security screens.

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

Light Pattern: Pairs of windows with three-lights.

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: The main entrance is located on the south side and consists of a hollow-metal painted door with ½ glazing with a metal mesh screen. A second, hollow-metal painted door is located on the east side of the building.

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: TA-37-1 and TA-37-3 through TA-37-27.

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 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-37-2 is a one-story, rectangular-in-plan building measuring 12 ft by 16 ft. The building was constructed with a reinforced concrete slab foundation, reinforced concrete walls, and a concrete apron on two sides. The building also has a steal framed, very slightly pitched hipped roof with 4-ft eaves on all four sides with the soffits enclosed with square metal pans. Tongue and grove boards complete the fascia on the roof edge. The roof is covered with a 3-ply tar and gravel roof and lightning rods. The main entrance is located on the south side and consists of a hollow-metal painted door with ½ glazing with a metal mesh screen. A second hollow-metal painted door is located on the east side of the building. Windows consists of 3-light, awning style units covered with mesh security screens.

Total sq ft 154 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 1798
Sheet 6 of 37
Bldg No. 3702 (MAC-2) [TA-37-2]
Plan, Elevations, and Details
June 3, 1949

ENG-R 3077
TA-37 Bldg. MAC-2, [TA-37-2]
Floor Plan
August 19, 1964
Revised to status of June 8, 1984

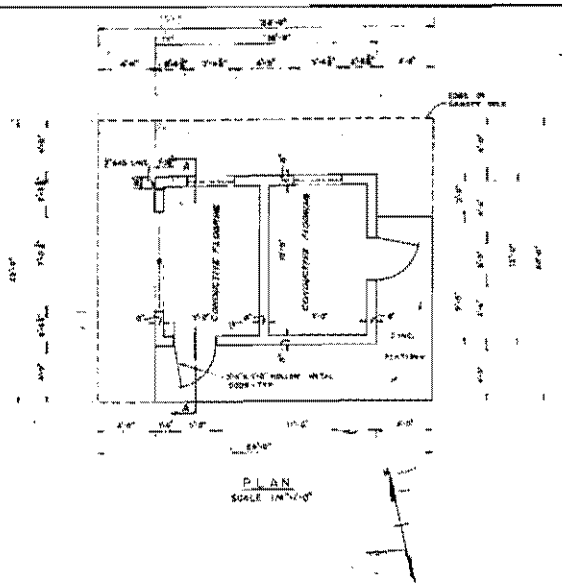
ENG-C 1798
Sheet 6 of 37
Bldg No. 3702 (MAC-2) [TA-37-2]
Plan, Elevations, and Details
June 3, 1949
Updated November 28, 2007

TA-37-2 South Elevation

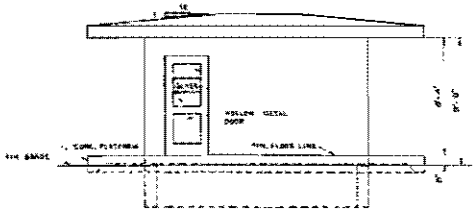
TA-37-2 East Elevation

TA-37-2 North Elevation

TA-37-2 West Elevation



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



SOUTH ELEVATION
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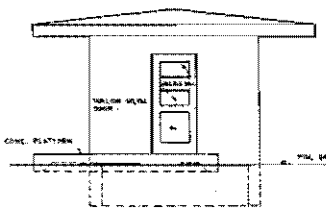

EAST ELEVATION
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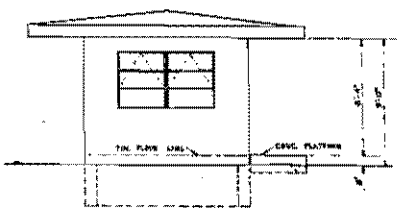
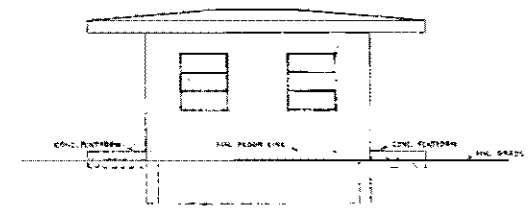
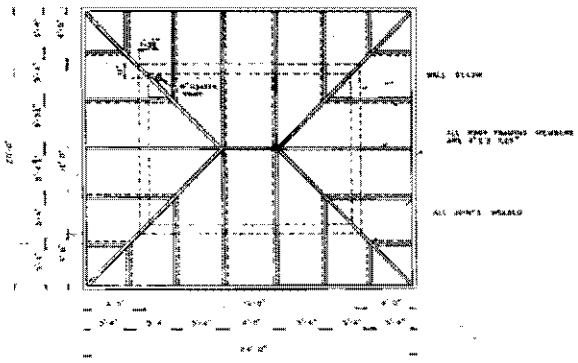


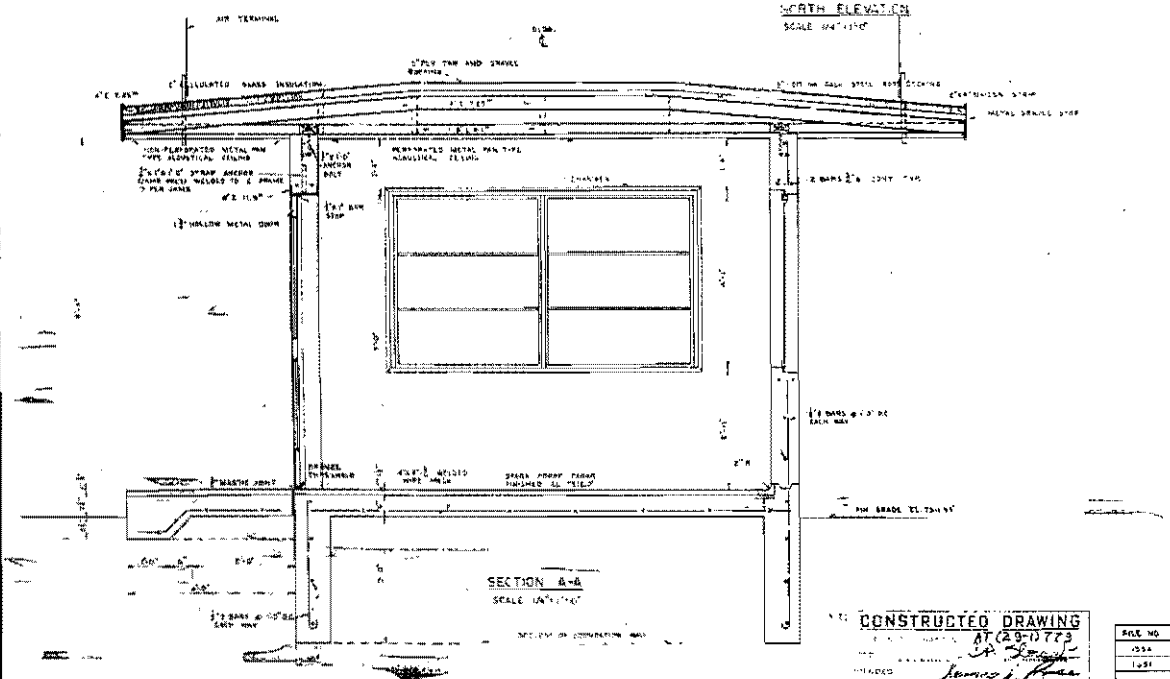
WEST ELEVATION
SCALE 1/4"=1'-0"



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



ROOF FRAMING PLAN
SCALE 1/4"=1'-0"



SECTION A-A
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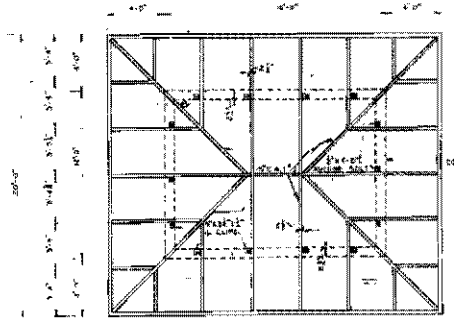


CEILING FRAMING PLAN
SCALE 1/4"=1'-0"

CONSTRUCTED DRAWING
AT (29-1) 773

BLDG. NO.	REFERENCE DRAWINGS
1554	ELECTRICAL LAYOUT - BLDG. NO. 3708
1451	HEATING LAYOUT - BLDG. NO. 3708

PLAN, ELEVATIONS AND DETAILS
BLDG. NO. 3708 (MAG-2)

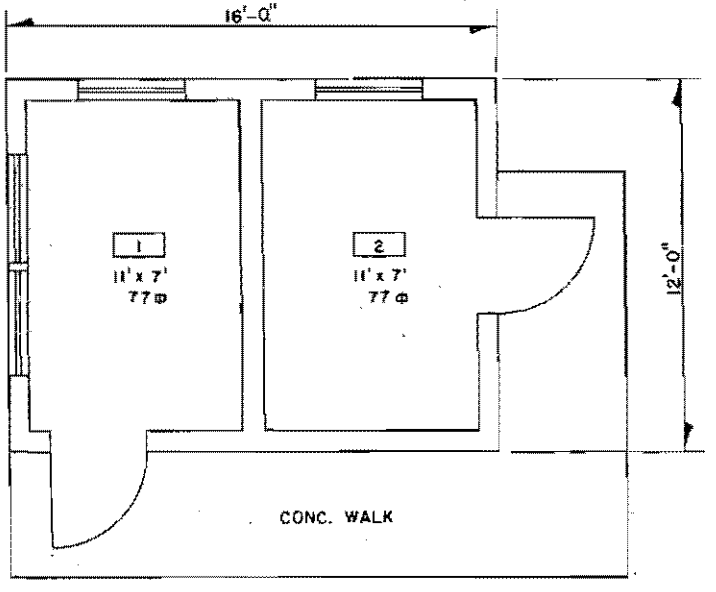
LOS ALAMOS TA-37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

DWG. NO.	252
DRAWN	GRS
CHECKED	
APPROVED	
DATE	
SHEET	6
OF	37

LAB JOB 186 L.A.S.L. DWG. NO. ENG-C 1798

SFA-CF-116



1/4" = 1'-0"

0 1 2 3 4 5 6 7 8 9 10

GRAPHIC SCALE

TOTAL SQ. FT. 154

REV.	DATE	REVISION	BY	CKD.	APR.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HBN		DA

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-2 TA-37

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 6-11-84

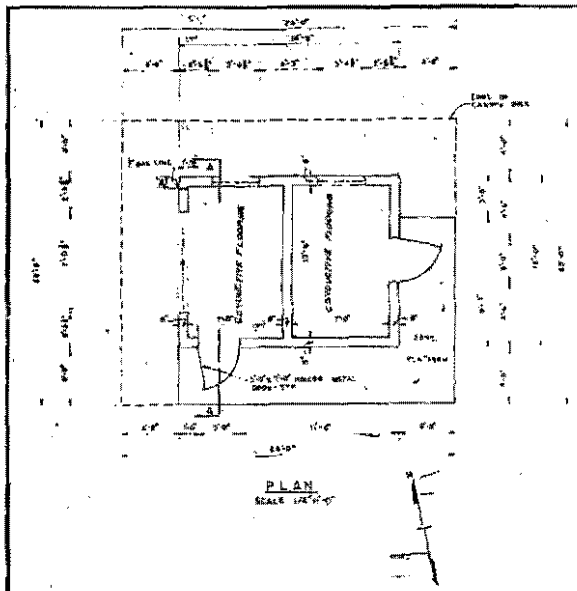
SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo		

DRAWN	DATE	SHEET NO.	DRAWING NO.
HARRISON	8-19-64	1 OF 1	ENG-R3077

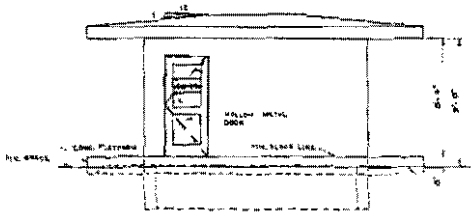
CHECKED Humble HBN

7/11/84

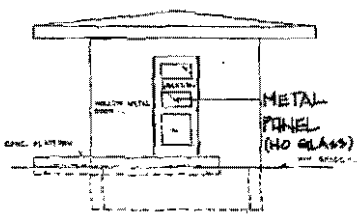
K-E ALBANENE® LA 0800



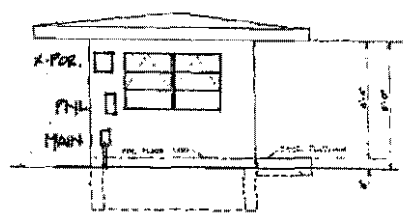
PLAN
SCALE 1/4"=1'-0"



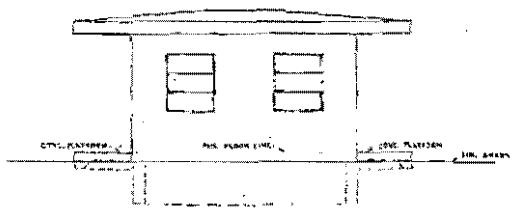
SOUTH ELEVATION
SCALE 1/4"=1'-0"



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



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



NORTH ELEVATION
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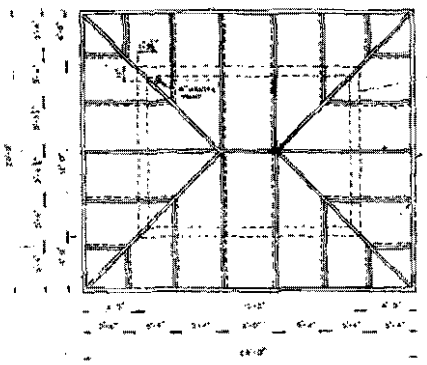
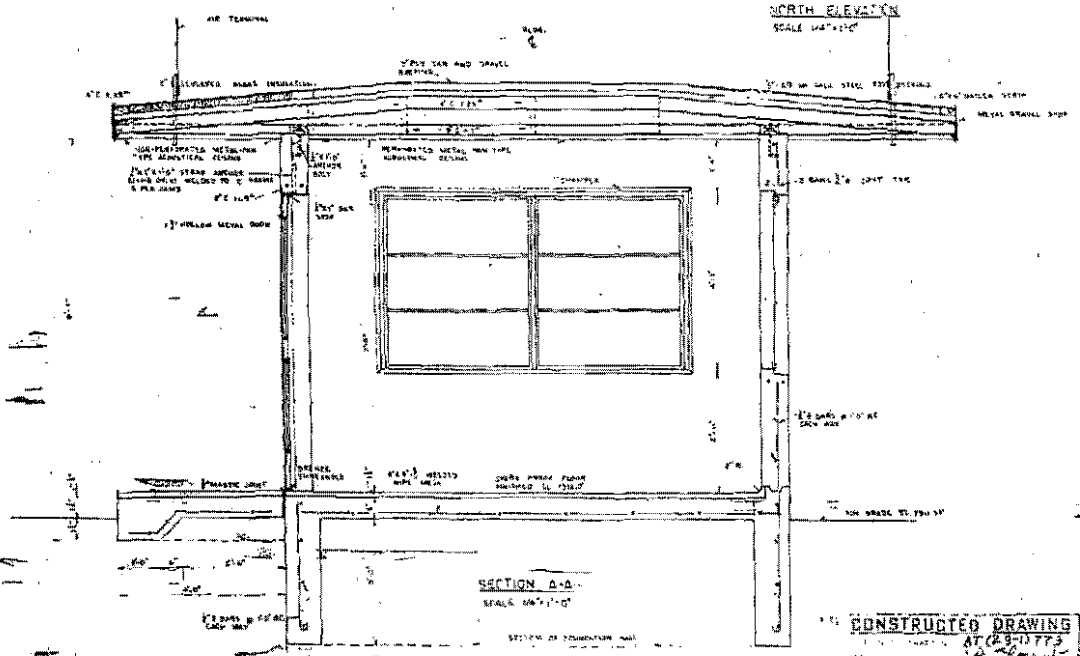
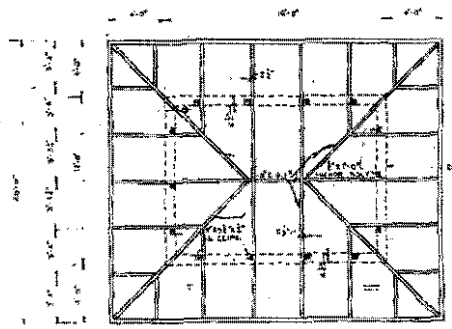


ROOF FRAMING PLAN
SCALE 1/4"=1'-0"



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



CEILING FRAMING PLAN
SCALE 1/4"=1'-0"

Tawey 11-28-07

CONSTRUCTED DRAWING
AT (A-9-1) 773

AHJ NO.	REFERENCE DRAWINGS
344	ELECTRICAL LAYOUT - BLDG. NO. 3708
1481	HEATING LAYOUT - BLDG. NO. 3708

PLAN, ELEVATIONS AND DETAILS
BLDG. NO. 3708 (MAG-2)

LOS ALAMOS T4-37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

DWG. NO.	252
DRAWN	GPR
CHECKED	
APPROVED	
DATE	1-14-47
SHEET	6
OF	33

LAS JOB 186 LASL DWG NO. ENG-C 1798

JFA-EF-1/6

LANL TA- Building # 37-0003

Camera PN #984242

Frame #s DCP_0231 thru DCP_0234, DCP_2275 & DCP_2276

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 380901 northing 3966229 zone 13

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

Current Use/ Function Vacant Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 & TA-37-2 and TA-37-4 through TA-37-27.

Integrity Excellent

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 336 net

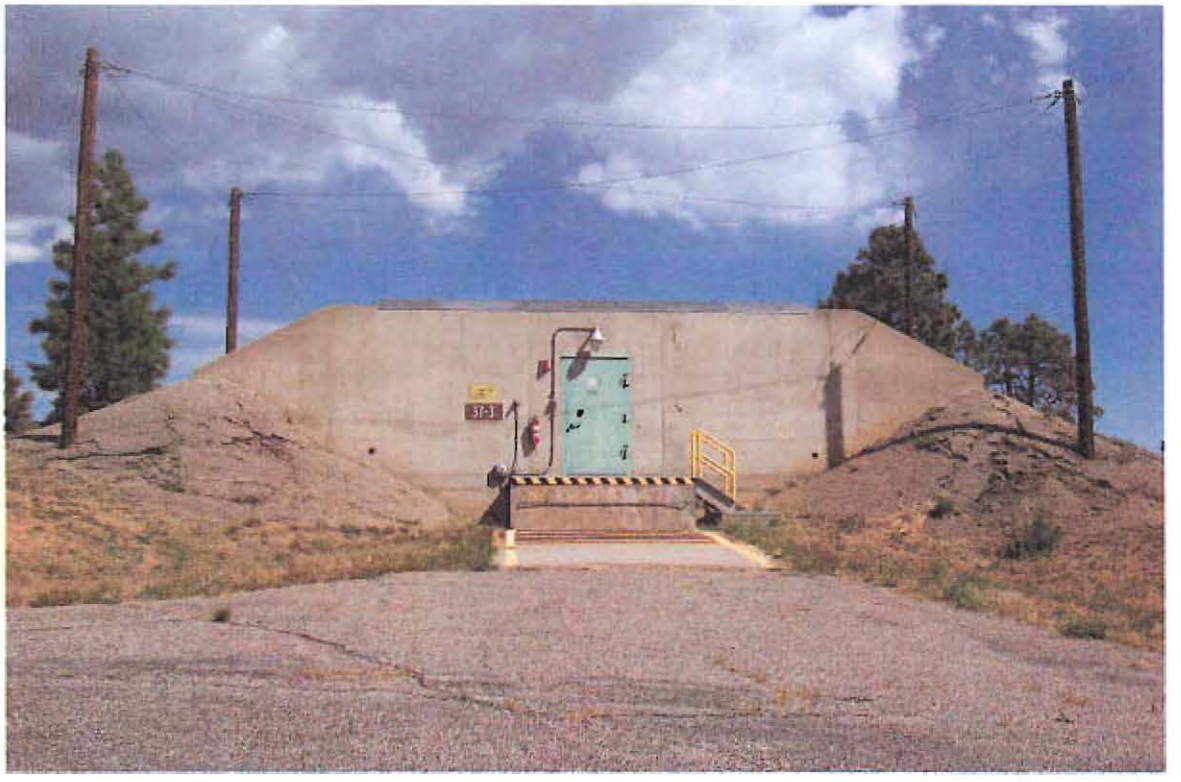
Architect/ Builder Black & Veatch Consulting Engineers

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

ENG-R 3078
TA-37 Bldg. MAC-3, [TA-37-3]
Floor Plan
August 21, 1964
Revised to status of June 8, 1984

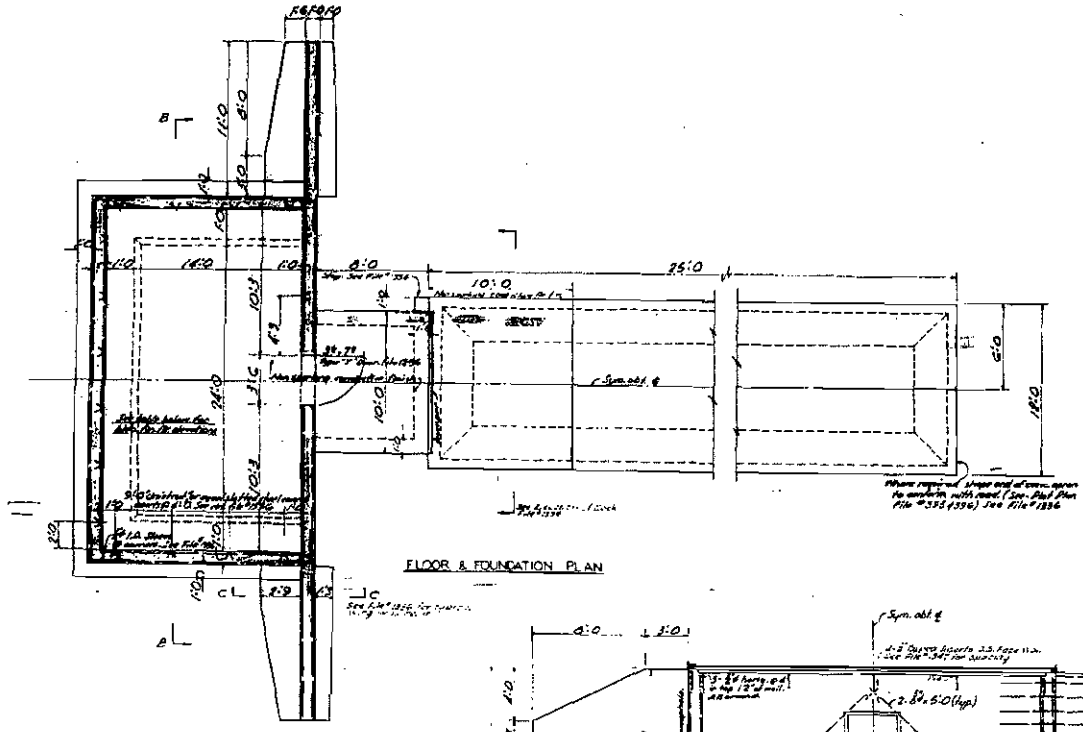


TA-37-3 South Elevation

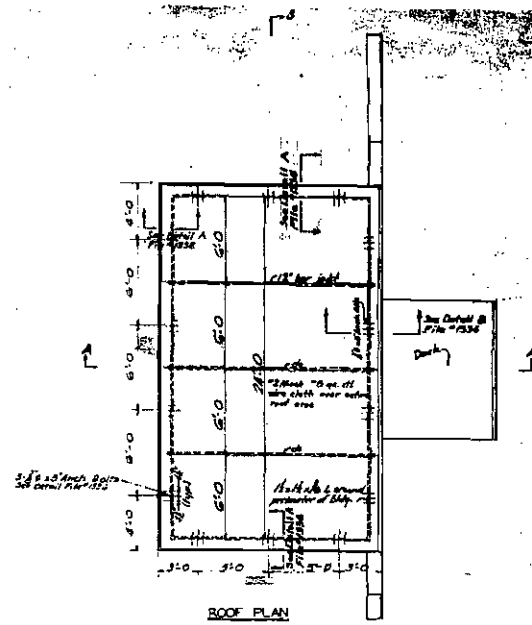
TA-37-3 East Elevation

TA-37-3 North Elevation

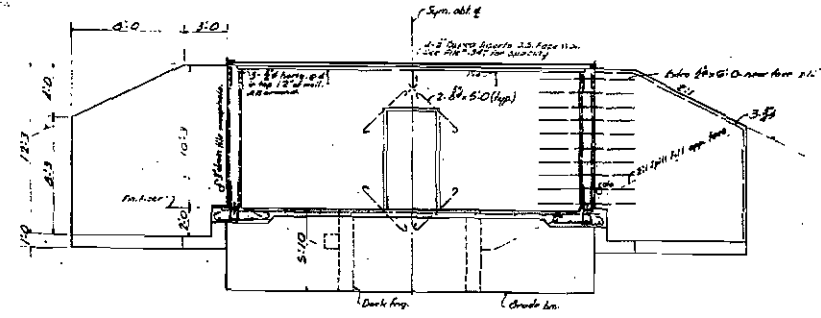
TA-37-3 West Elevation



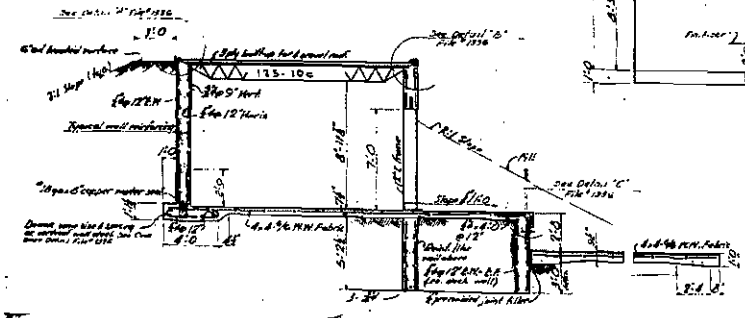
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

General Notes

1. All concrete shall be type A-1 shall develop a strength of 3000 p.s.i. @ 28 days.
2. Min. 5½ cement of portion with rock or gravel used.
3. Reinforcement shall be intermediate grade deformed bars.
4. Interior wall forms shall be of plywood & walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls, ceiling & all exposed metal shall be given 3 coats of lead & oil paint.
6. Entrance bldg. walls that are to be covered with earth shall be waterproofed with 3 mils of tar coat for pitch.
7. Bond reinforcing steel by uniting @ 5'-0" intervals in each direction. Bond all other metal to reinforcing steel by clamps or suitable metal straps.
8. Connect reinforcement to grounding system with ⅜" ø bare stranded copper cable.
9. Where shown on plans, exposed slab shall be given a non-sparking conductive floor finish. Slabs shall be placed in 2 courses, top course ½" thick. Conductive finish shall be grounded.
10. A 6" compacted surface of approved earth shall be applied over earth fill above original grade.
11. All foundations shall be carried to solid bearing with a max. concentration of 12 tons/sq.ft.
12. Foundation walls 12" below finish grade may be poured without forming provided trenches are cut to size shown on plans.
13. The 25' x 100' clear deck apron is to be excluded as part of the building.

Building Number	Dist. on North Service road	Floor Elevation
3203	4+35.5	7318.0
3204	5+85.17	7304.0
3205	8+00.0	7291.7
3206	9+98.0	7290.9
3207	11+95.0	7291.0
3208	13+95.0	7295.4
3209	15+95.0	7296.4
3210	17+95.0	7297.7

Reference Drawings

Plot Plans	File # 1355 & 336
Electrical Layout	#1847
Door Assy Details	#1856
Typical Details	#1836

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT (29-1) 1219

SUBMITTED

RECOMMENDED

APPROVED

Scale: ¼"=1'-0" See Also File # 1356

STRUCTURAL LAYOUT - BUILDINGS 3201 to 3210 INCL. BLDGS. WERE 501 THRU 508 THEN MAC-3 THRU MAC-12

PLANS & SECTIONS

LOS ALAMOS T A - 37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

DATE 6/3/47

FILE NO. 255

DRAWN M. Roberts

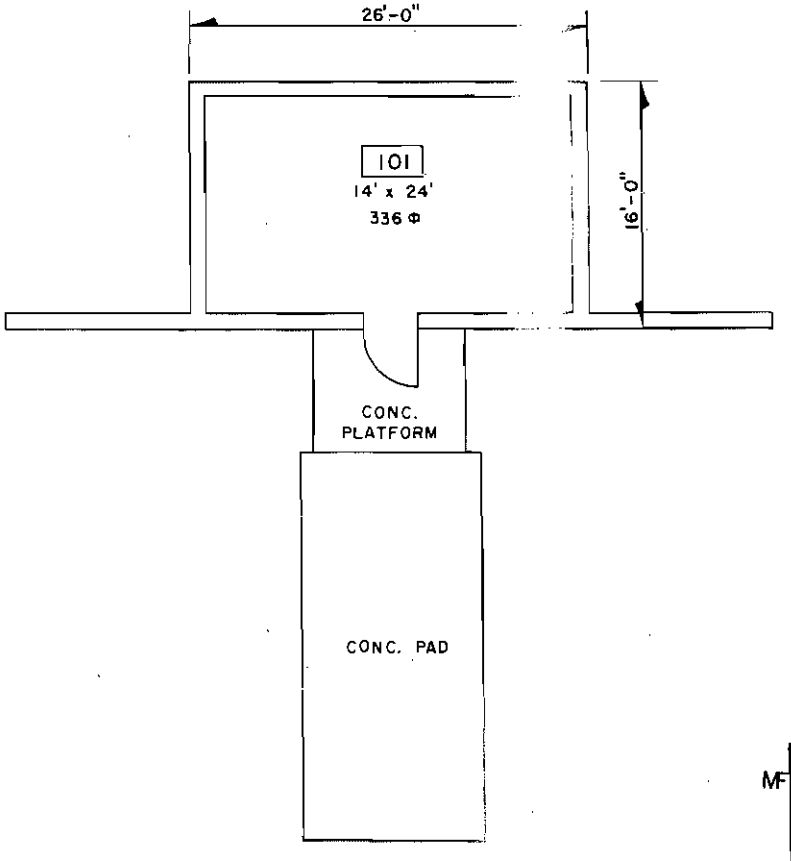
TRACED 12-6-47

APPROVED

SHEET NO. 37

6-3-47

LAB JOB 186 L.A.S.L.DWG.NO.ENG-C 1799 SFA-EF-1/7



1/8" = 1'-0"

0 1 2 3 4 5 10 15

GRAPHICS SCALE

TOTAL SQ. FT. 336

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HBN		

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-3 TA-37

SEC. CLASSIFICATION
CLASS. U
REVIEWER Gmedrie
DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dennis Ryan	W. T. Clarke

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
HARRISON	Humble #44	8-21-64	1 OF 1	ENG-R3078

LA 0805

9/14/09

LANL TA- Building # 37-0004

Camera PN #984242

Frame #s DCP_ 0237 & DCP_2276

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 380953 northing 3966203 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-3 and TA-37-5 through TA-37-27.

Integrity Excellent

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 336 net

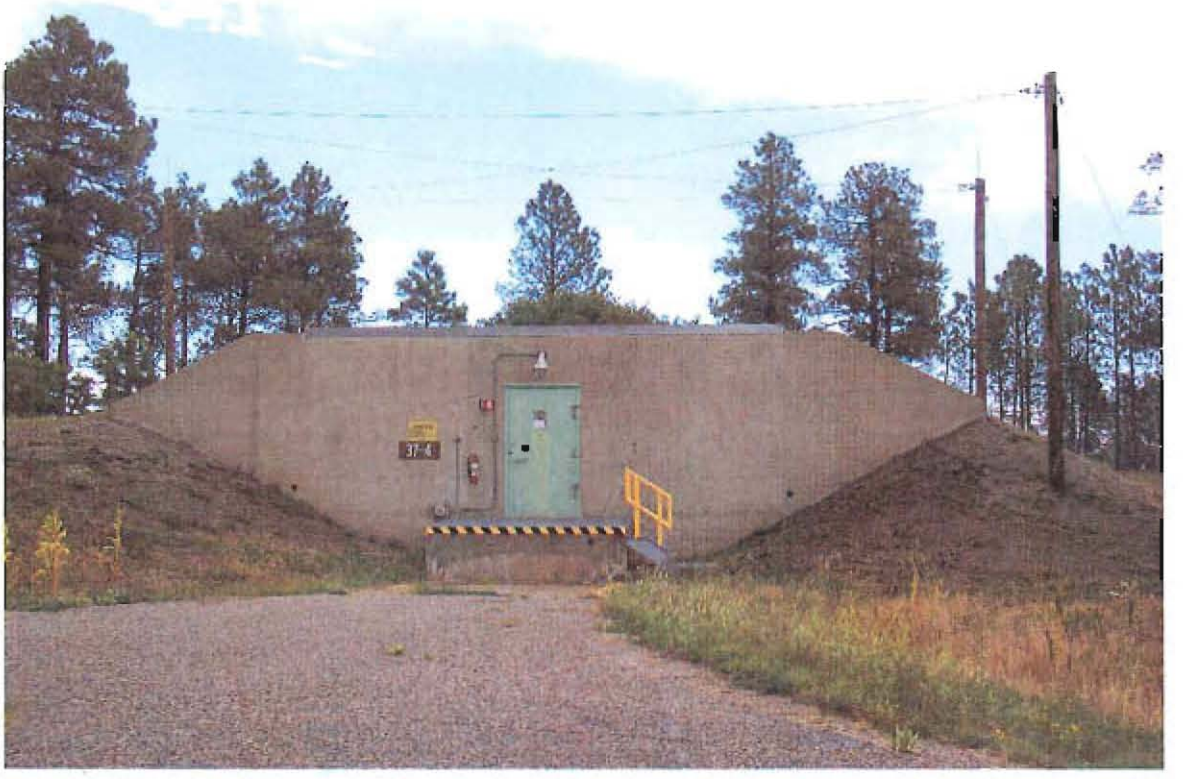
Architect/ Builder Black & Veatch Consulting Engineers

Alterations

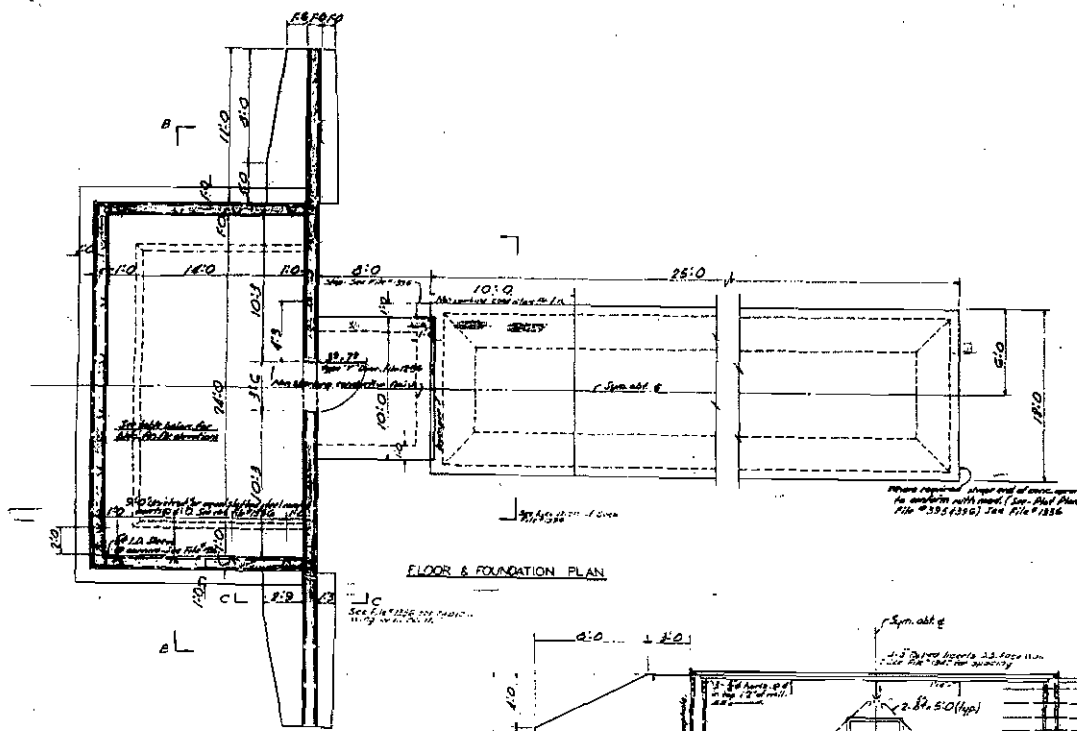
List of Drawings (Cntrl + Enter for para break)

ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

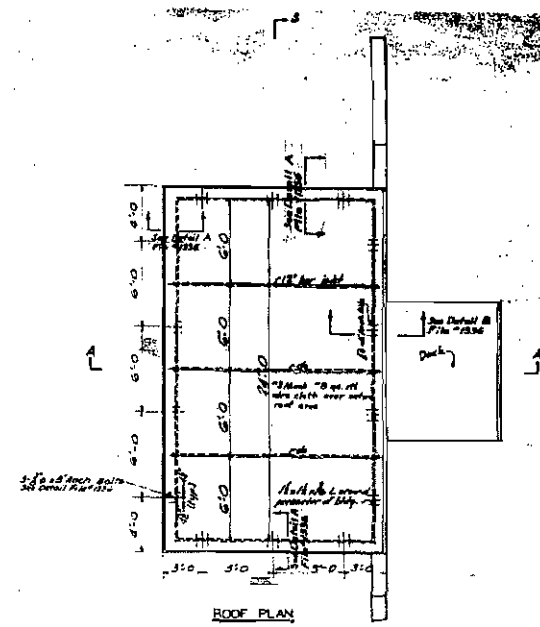
ENG-R 3079
TA-37 Bldg. MAC-4, [TA-37-4]
Floor Plan
August 21, 1964
Revised to status of June 8, 19B4



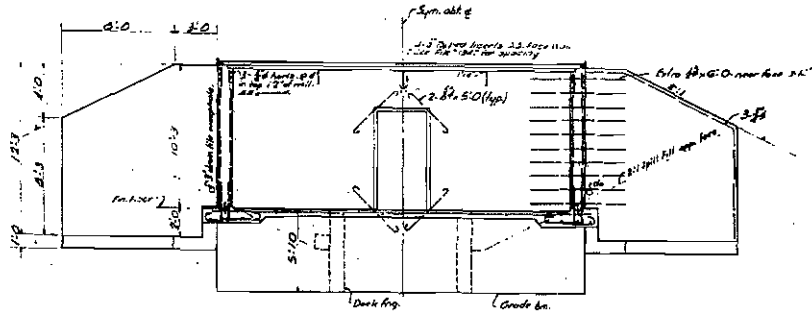
TA-37-4 Southwest Elevation



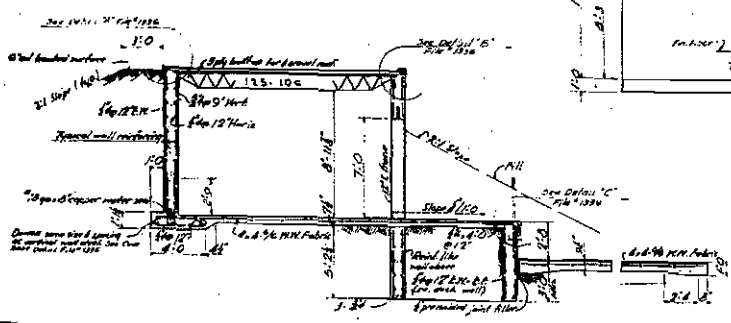
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

Building Number	Shell or Interior Service Road	Floor Elevation
3701	4+35.5	7116.0
3704	5+85.37	7104.0
3705	8+00.0	7119.7
3706	9+95.0	7120.9
3707	11+95.0	7121.0
3708	13+95.0	7123.4
3709	15+95.0	7122.4
3710	17+92.0	7121.7

Reference Drawings

	File #
Plot Plans	355 & 356
Electrical Layout	1347
Door Assy Details	1254
Typical Details	1336

General Notes

1. All concrete shall be type A-4 shall develop a strength of 3000 p.s.i. @ 28 days.
2. Min 5 lb cement all portion with each sack of cement used.
3. Reinforcement shall be intermediate grade deformed bars.
4. Interior wall forms shall be of ply wood & wall shall be finished smooth. Exterior walls may be left rough.
5. Interior walls, ceiling & all exposed metal shall be given 2 coats of lead & oil paint.
6. Exterior bldg. walls that are to be covered with earth shall be waterproofed with 3 plies felt & coal tar pitch.
7. Bend reinforcing steel by resting @ 31.0" intervals in each direction. Bend all other metal to reinforcing steel by direct weld or suitable metal straps.
8. Connect reinforcement to grounding system with #1/0 bare stranded copper cable.
9. Where shown as plans, each slab shall be given a non-sparking conductive floor finish. Slabs shall be submitted & covering top course 1/2" thick. Conductive finish shall be grounded.
10. All compacted surface of all finished earth shall be applied over earth fill above original grade.
11. All foundations shall be carried to solid bearing with a min excavation of 12" into rock (Tuff).
12. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to given shown on plans.
13. The 25' above check apron is to be included as part of the building.

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT (28-1)-1219
SUBMITTED
RECOMMENDED
APPROVED

Scales 1/4"=1'-0" See Also File # 1356

STRUCTURAL LAYOUT - BUILDINGS 3709 to 3710 INCL.
BLDGS. WERE 301 THRU 308 | NOW MAC-5 THRU MAC-

PLANS & SECTIONS

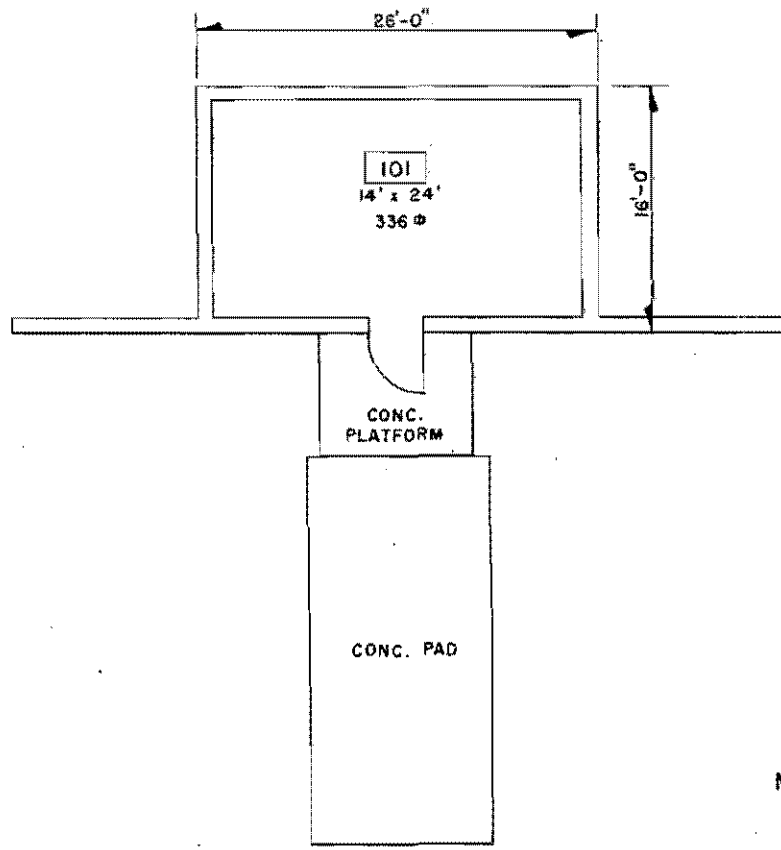
LOS ALAMOS T A - 37 NEW MEXICO

BLACK & YEATCH — CONSULTING ENGINEERS

REVISED TITLE & SEE			
APPROVED FOR CONSTRUCTION			
REVISIONS			

File No. 255
Designed K. Adams
Checked 2-2-57
Approved [illegible]
Date 6/3/57
Sheet 1 of 37

LAB JOB 186 L.A.S.L.DWG.NO.ENG-C 1799 SPA-EF-1/7



012345 10 15
1/8"=1'-0"
GRAPHIC SCALE

TOTAL SQ. FT. 336

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	H&N		DP

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-4 TA-37

SEC. CLASSIFICATION: CLASS. U
REVIEWER: [illegible]
DATE: 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	[illegible]	[illegible]

DRAWN: HARRISON
CHECKED: H&N
DATE: 8-21-64
SHEET NO.: 1 OF 1
DRAWING NO.: ENG-R3079

TO VAULT

K&E ALBUQUERQUE LA CROSS

LANL TA- Building # 37-0005

Camera PN #984242

Frame #s DCP_ 0238 & DCP_2277

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381000 northing 3966158 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-4 and TA-37-6 through TA-37-27.

Integrity Excellent

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 336 net **Architect/ Builder** Black & Veatch Consulting Engineers

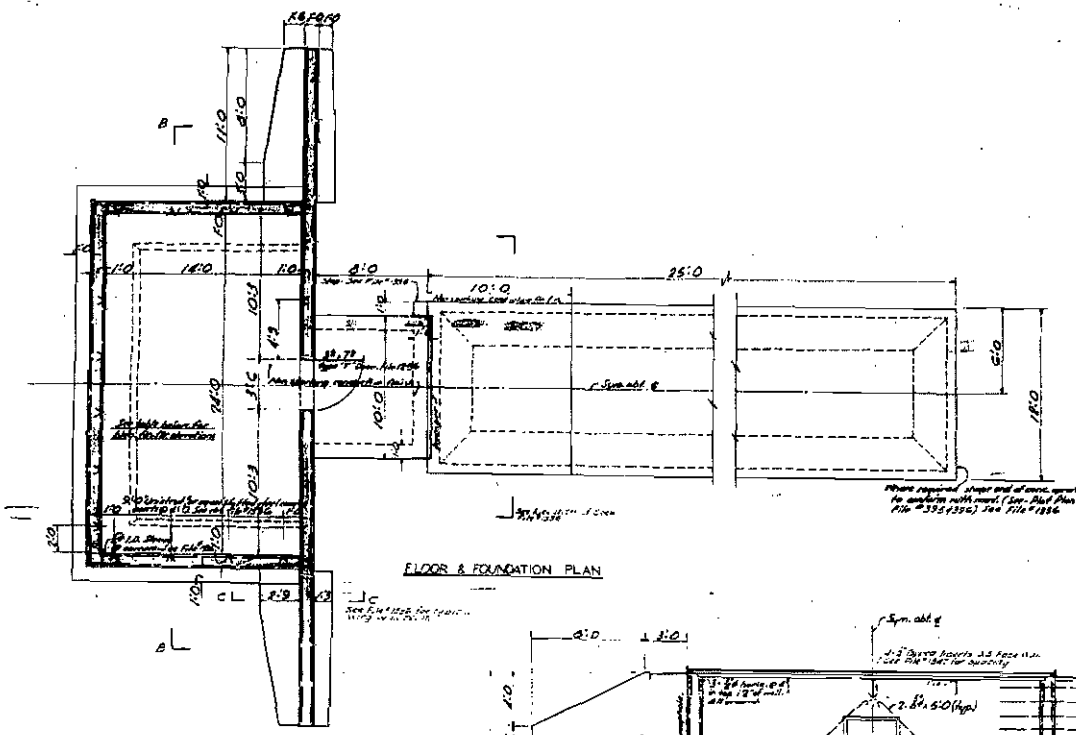
Alterations

List of Drawings (Cntrl + Enter for para break)

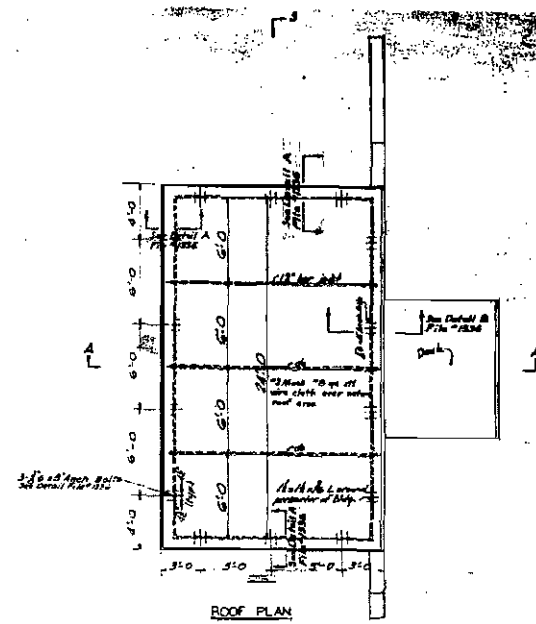
ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

ENG-R 3080
TA-37 Bldg. MAC-5, [TA-37-5]
Floor Plan
August 18, 1964
Revised to status of June 8, 1984

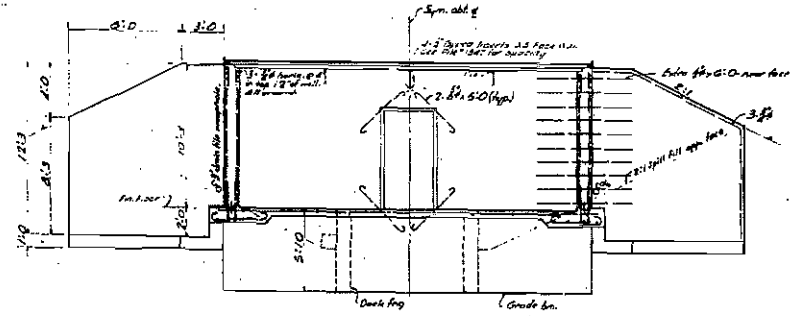
TA-37-5 Southwest Elevation



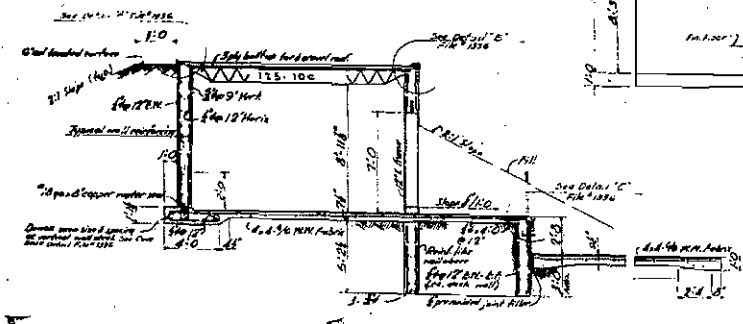
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B-B



SECTION A-A

Building Number	Unit on North Service road	Floor Elevation
3701	4+35.5	7148.0
3704	5+86.47	7804.0
3705-A	6+00.0	7731.7
3706	9+98.0	7790.3
3707	11+98.0	7791.0
3708	13+95.0	7783.1
3709	15+96.0	7776.4
3710	17+78.0	7771.7

Reference Drawings

	File #
Dial Plans	395 & 396
Electrical Layout	1357
Door Assy Details	1236
Typical Details	1336

General Notes

1. All concrete shall be type A-4 shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mix 5 lbs cement all concrete with each sack of cement used.
3. Reinforcement shall be intermediate grade deformed bars.
4. Exterior wall faces shall be of plywood & walls shall be finished smooth. Exterior walk may be left rough.
5. Interior walls, ceiling & all exposed metal shall be primed 3 coats of lead & oil paint.
6. Exterior walls, earth that are to be covered with earth shall be painted with 3 plies felt & coat for pitch.
7. Bend reinforcing steel by melting @ 31.0" intervals in each direction. Bend all other metal to reinforcing steel by direct weld or suitable metal strap.
8. Connect reinforcement to grounding system with #1/0 bare stranded copper cable.
9. Where shown on plans, every slab shall be given a non-sparking conductive floor finish. Slabs shall be placed in 2 courses, top course 1/2" thick. Conductive finish shall be granolithic.
10. A 6" compacted surface of soil treated earth shall be applied over earth fill above original grade.
11. All foundations shall be carried to solid bearing with a min excavation of 12" into rock (12'-0").
12. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to exact shown on plans.
13. The 25 sanc. check apron is to be included as part of the building.

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT(29-1)[illegible]

SUBMITTED [illegible]

APPROVED [illegible]

Scale: 1"=10' See Also File # 1336

STRUCTURAL LAYOUT - BUILDINGS 3700 TO 3710 INCL.
BLDGS WERE 301 THRU 308 ; NOW MAC-3 THRU MAC-10

PLANS & SECTIONS

LOS ALAMOS T A - 37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

DATE 6/7/49

FILE NO. 255

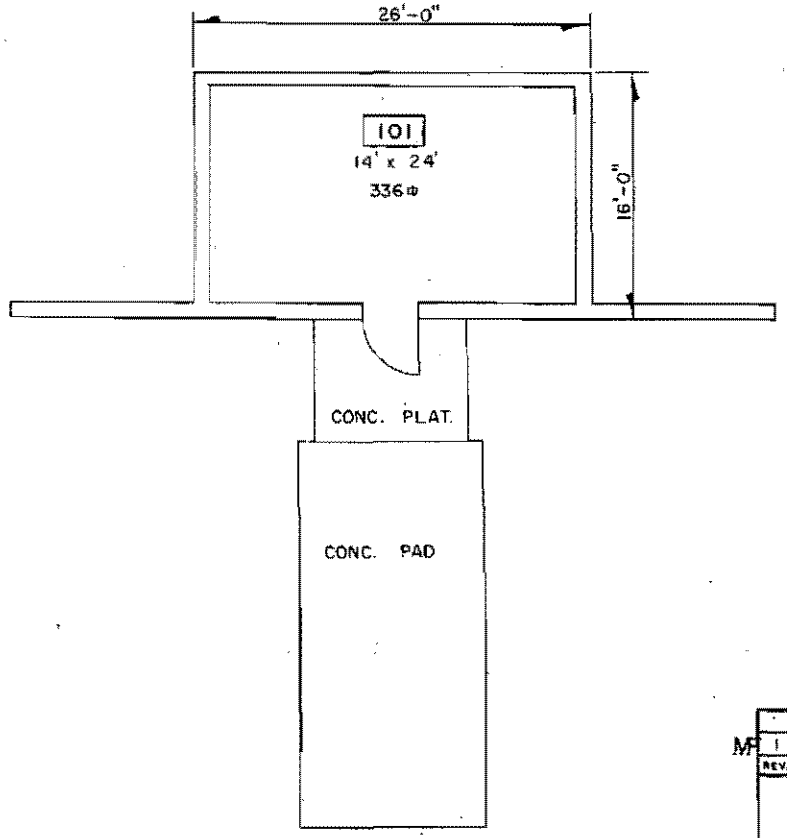
DRAWN K. Adams

CHECKED [illegible]

APPROVED [illegible]

SHEET 1 OF 37

LAB JOB 185 L.A.S.L.DWG.NO.ENG-C 1799 SFA-EF-1/7



1/8" = 1'-0"

0 5 10 15

GRAPHIC SCALE

TOTAL SQ. FT. 336

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HEN		DP

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-5 TA-37

SEC. CLASSIFICATION: CLASS. U

REVIEWER: [signature] DATE: 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	[signature]	[signature]

DRAWN	DATE	SHEET NO.	DRAWING NO.
RAGSDALE	8-18-64	1 OF 1	ENG-R3080

CHECKED [signature] HEN

LA 0805

LANL TA- Building # 37-0006

Camera PN #984242

Frame #s DCP_0240 & DCP_2278

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381039 northing 3966120 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-5 and TA-37-7 through TA-37-27.

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

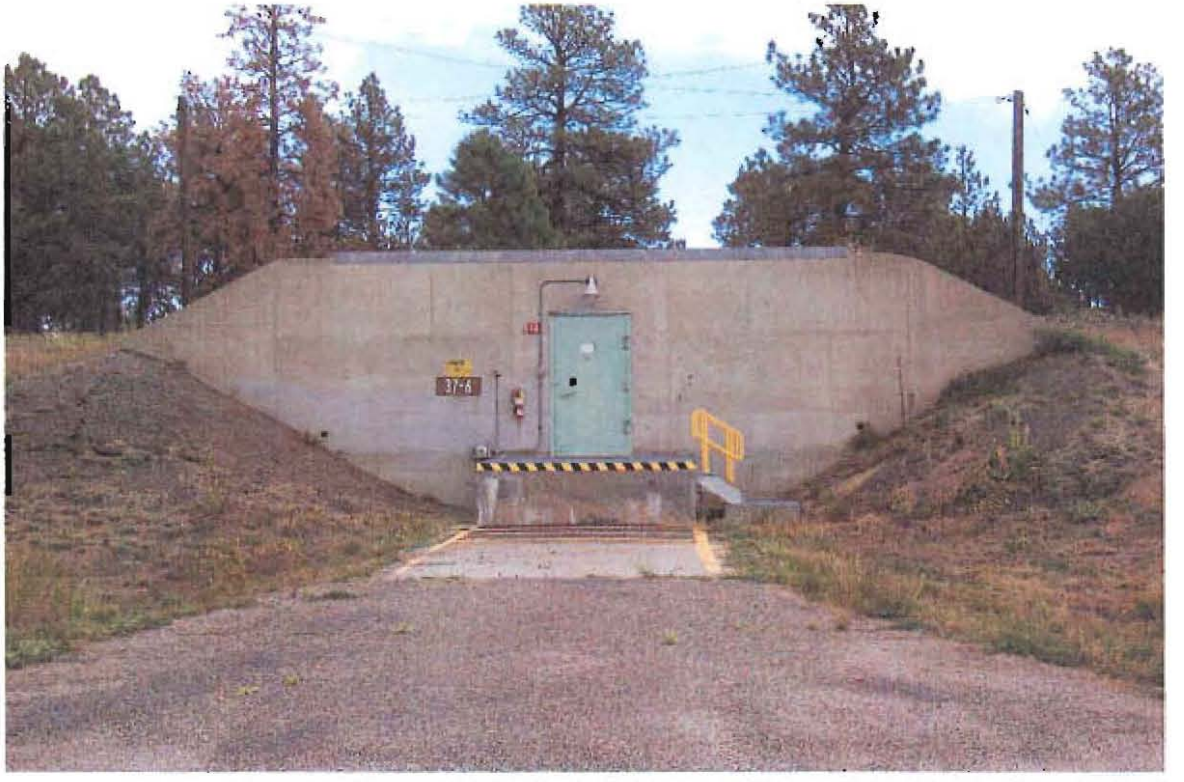
Total sq ft 336 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

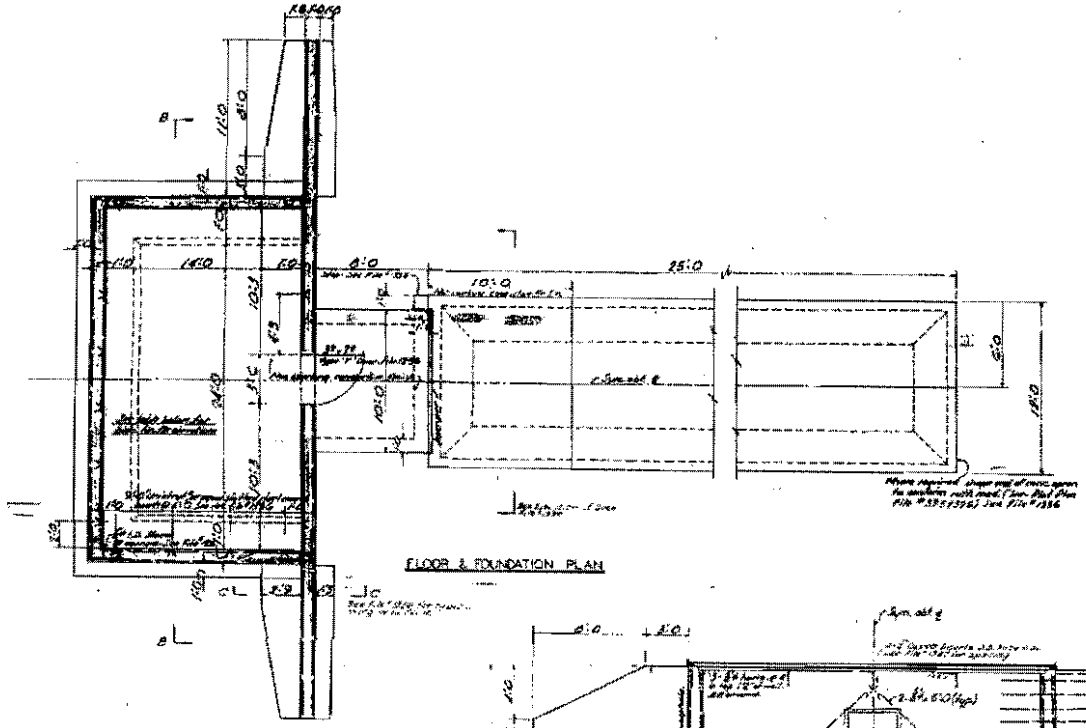
List of Drawings (Cntrl + Enter for para break)

ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

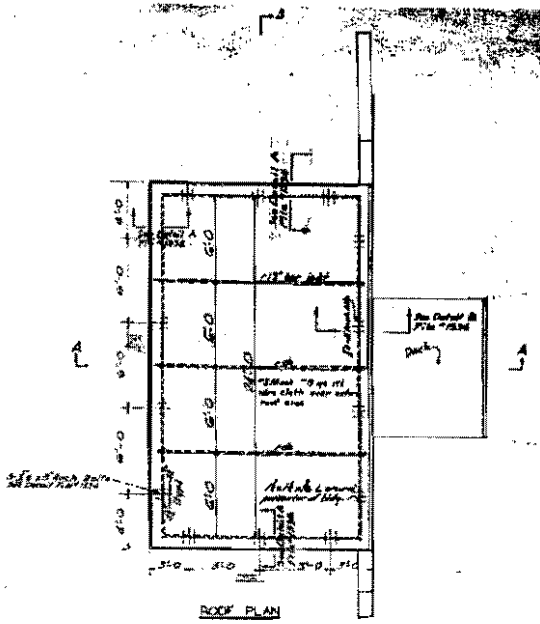
ENG-R 3081
TA-37 Bldg. MAC-6, [TA-37-6]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984



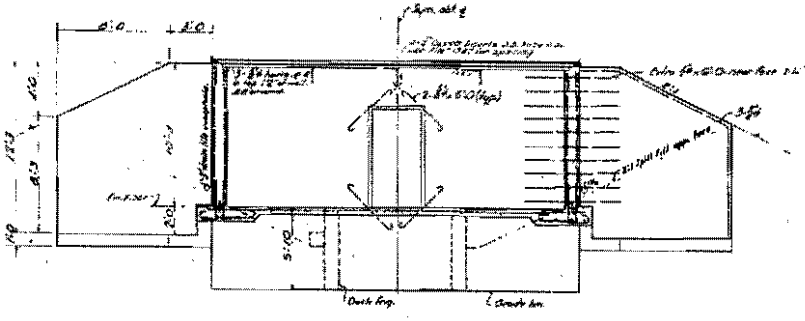
TA-37-6 Southwest Elevation



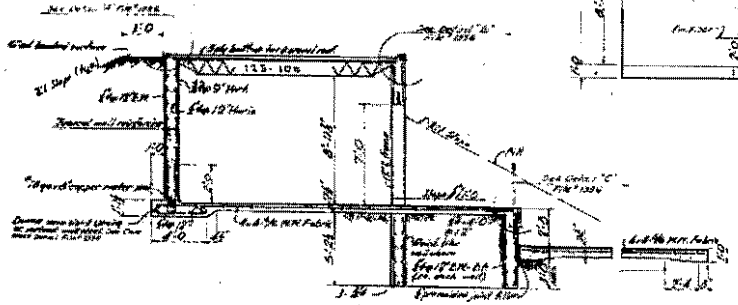
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B-B



SECTION A-A

General Notes

1. All concrete shall be type A-1 shall develop a strength of 1000 p.s.i. in 28 days.
2. Min. 3/4" cement plaster with mesh over 1 layer of cement sand.
3. All reinforcement shall be intermediate grade deformed bars.
4. Exterior wall forms shall be oil plywood & walls shall be finished smooth. Interior walls may be left rough.
5. Exterior walls, ceiling & all exposed metal shall be given 3 coats of Sand & oil paint.
6. Exterior bldg. walls that are to be covered with earth shall be waterproofed with 3 mop coats of coal tar pitch.
7. Sand cushioning shall be resting on #4 O.B. rebars in each direction. Bond all other metal to reinforcing steel by steel welds or suitable metal straps.
8. Connect reinforcement to grounding system with #4 bare stranded copper cable.
9. Where there no plans, same slab shall be given a non-sparking concrete floor finish. Slabs shall be allowed to cure not less than 28 days. Construction joints shall be provided.
10. A 6" compacted surface of soil treated earth shall be applied over earth fill above finished grade.
11. All furnishings shall be carried to valid bearing with a max. overexcavation of 12" at a rate of 1:1.
12. Foundation walls 6" below finish may be poured without forming provided trenches are cut to dimensions on plans.
13. The 25 year check apron is to be included as part of the building.

Building Number	Unit or Facility Service Served	Power Elevation
3701	4+88.5	7148.0
3704	6+85.9	7330.0
3705	8+00.0	7287.7
3706	9+96.0	7356.8
3707	11+85.0	7291.0
3708	13+95.0	7282.4
3709	16+95.0	7277.4
3710	17+75.0	7287.7

Reference Drawings

Unit Plans	File # 3356 & 356
Electrical Layout	#347
Door Assy. Details	#355
Typical Details	#356

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT (22-1) 1128

CONTRACTOR

SUBCONTRACTOR

APPROVED

Scale: 1"=10' See Also File # 1356

STRUCTURAL LAYOUT - BUILDINGS 3701 to 3710 INCL. BLDGS. WERE 304 THRU 308 | SHOW MAG-5 THRU MAG-9

PLANS & SECTIONS

LOS ALAMOS T.A. - 32 SITE MODIFIED

BLACK & VEATCH CONSULTING ENGINEERS

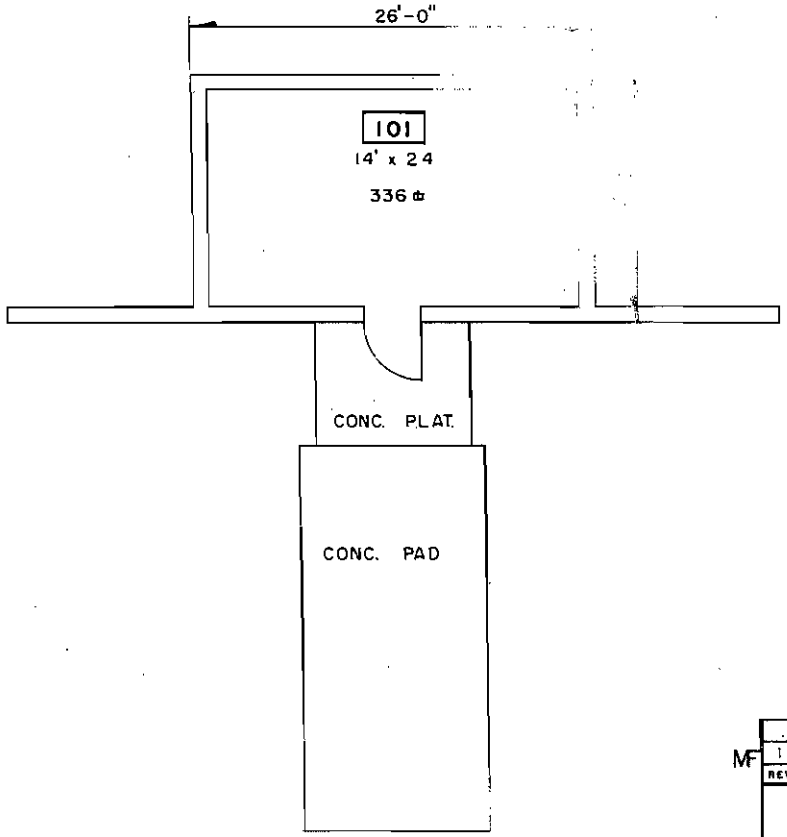
DATE 6/21/44

6/21/44			

255

33

LAS JOB 196 L.A.S.L.DWG.NO.ENG'G 1799 SFA-EF-117



0 5 10 15
1/8" = 1'-0"
GRAPHIC SCALE

TOTAL SQ. FT. 336

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	H&N		

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-6 TA-37

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Thayatto		

DRAWN	DATE	SHEET NO.	DRAWING NO.
RAGSDALE	8-20-64	1 OF 1	ENG-R3081

CHECKED

LANL TA- Building # 37-0007

Camera PN #984242

Frame #s DCP_0240 & DCP_2279

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381086 northing 3966087 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-6 and TA-37-8 through TA-37-27.

Integrity Excellent

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

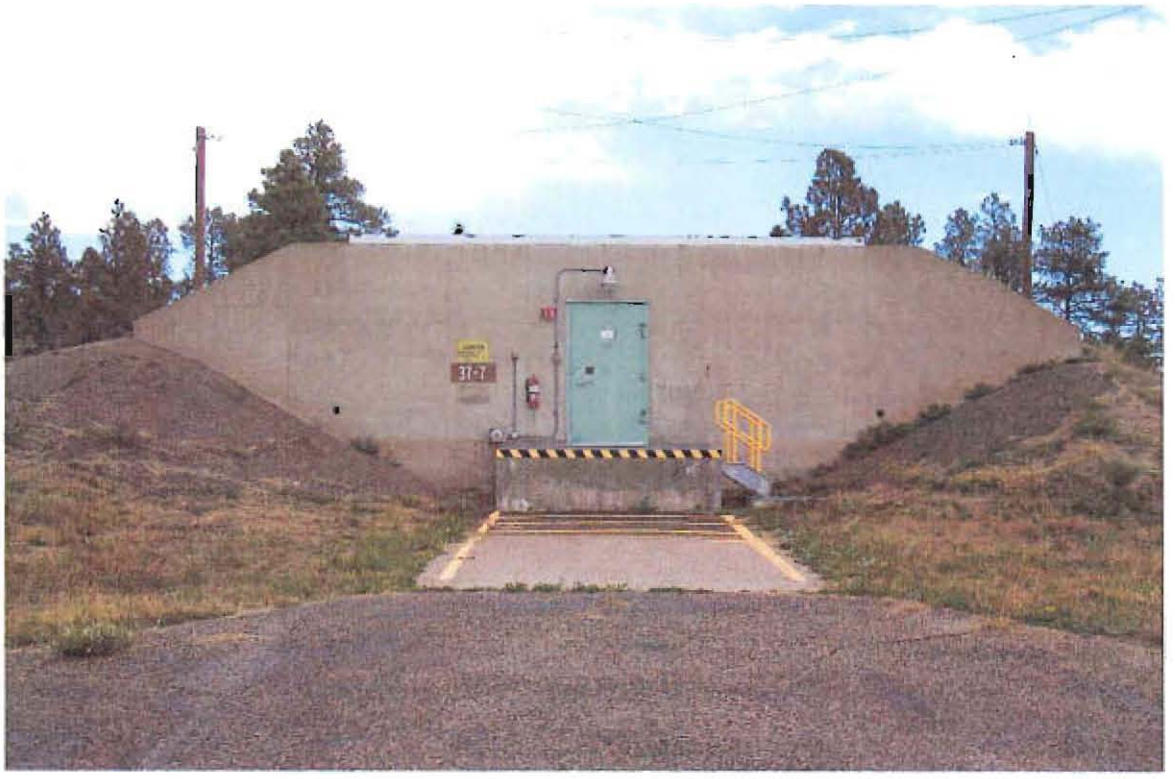
Total sq ft 336 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

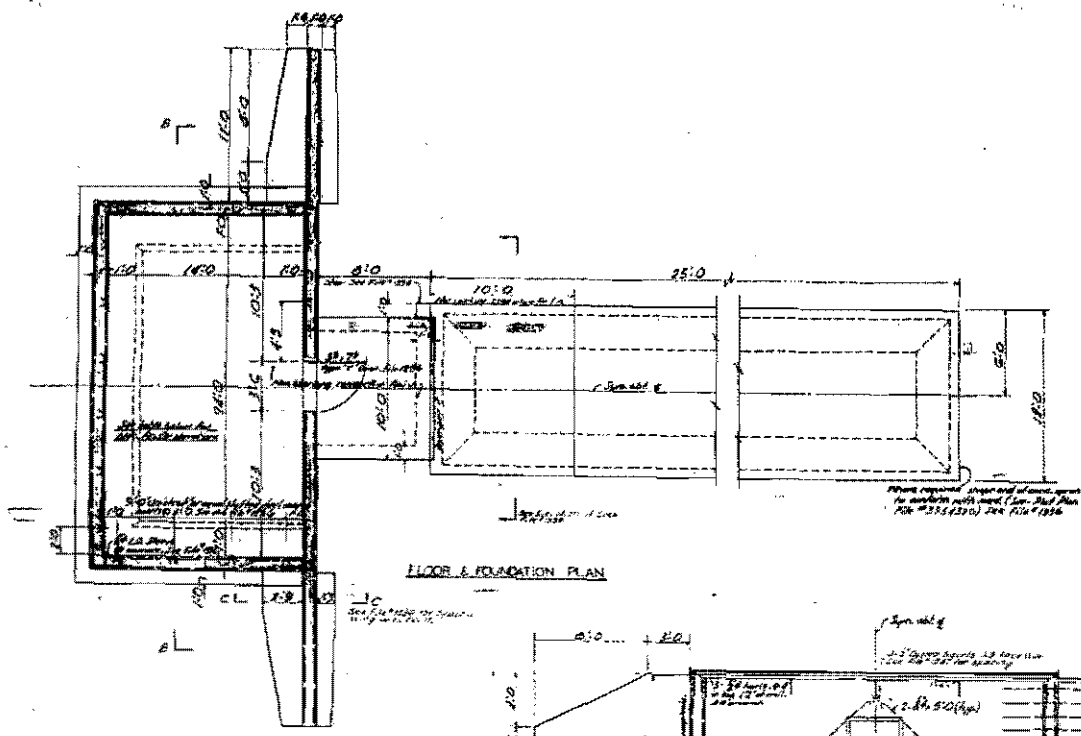
List of Drawings (Cntrl + Enter for para break)

ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

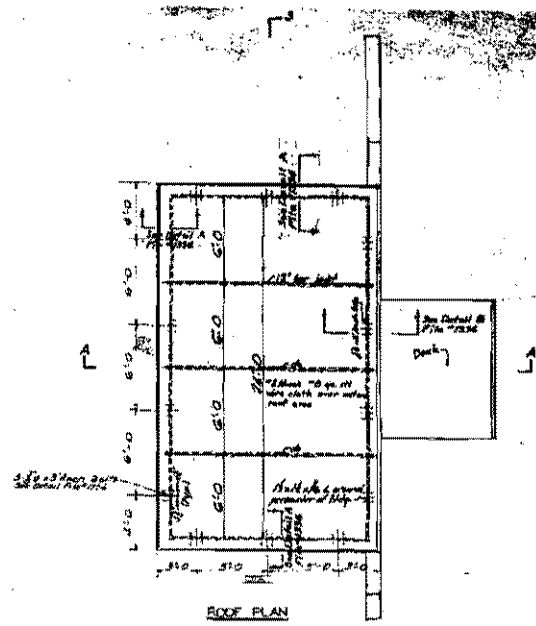
ENG-R 3082
TA-37 Bldg. MAC-7, [TA-37-7]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984



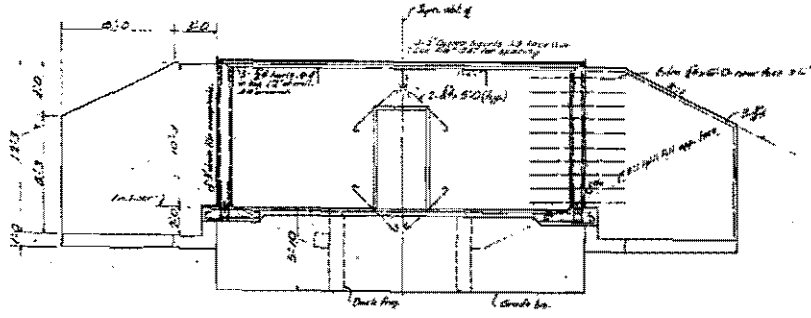
TA-37-7 South Southwest Elevation



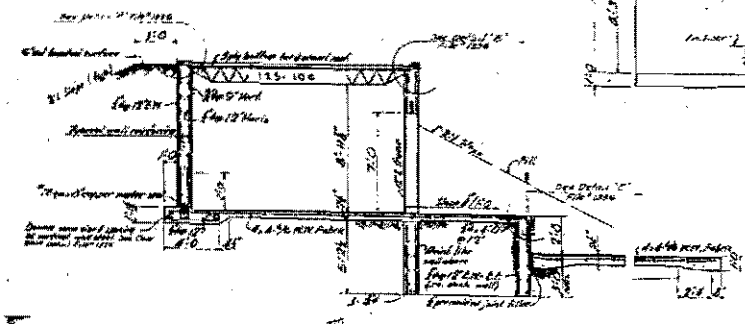
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

Building Number	Unit or Area of Second Floor	Floor Elevation
3201	4-35.5	7114.0
3204	5-35.5	7120.0
3205	6-100.0	7131.7
3206	9-95.0	7150.8
3207	10-95.0	7171.0
3208	13-95.0	7203.2
3209	15-95.0	7230.4
3210	17-72.0	7251.1

Reference Drawings
Plot Plans — File # 3354-3356
Electrical Layout — #347
Door Assy. Details — #348
Typical Details — #346

AS CONSTRUCTED DRAWING

Scale 1/16" — See Also File # 1799

STRUCTURAL LAYOUT - BUILDINGS 3201 TO 3210 INCL.
BLDGS. WERE 301 THRU 308 | NOW MAC-3 THRU MAC-10

PLANS & SECTIONS

LOS ALAMOS — T A - 32 — NEW MEXICO

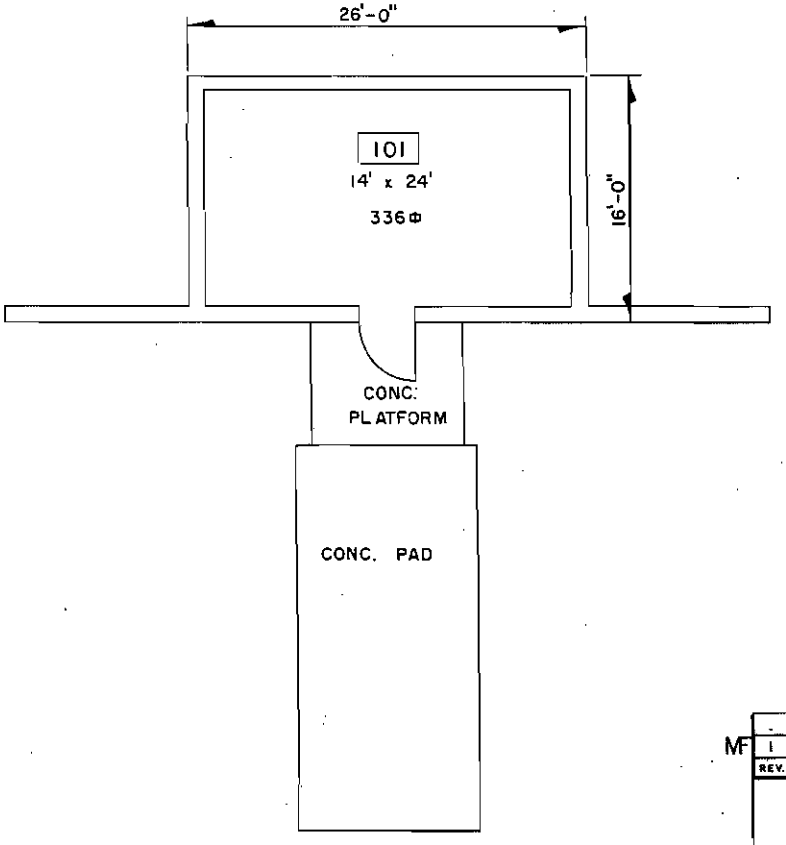
BLACK & VEATCH — CONSULTING ENGINEERS

259

1/16" = 1'-0"

37

LAB JOB 1195 L.A.S.L.DWG.NO.ENG.C 1799 SFA-EF-447



0 5 10 15
1/8"=1'-0"
GRAPHIC SCALE

TOTAL SQ. FT. 336

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	H&N		

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN
BLDG. MAC-7 TA-37

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 6-11-84

SUBMITTED E. Trujillo
RECOMMENDED
APPROVED

DRAWN RAGSDALE
CHECKED H&N

DATE 8-20-64
SHEET NO. 1 OF 1

DRAWING NO. ENG-R3082

LANL TA- Building # 37-0008

Camera PN #984242

Frame #s DCP_0241 & DCP_2279

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381139 northing 3966068 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-7 and TA-37-9 through TA-37-27.

Integrity Excellent

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 336 net **Architect/ Builder** Black & Veatch Consulting Engineers

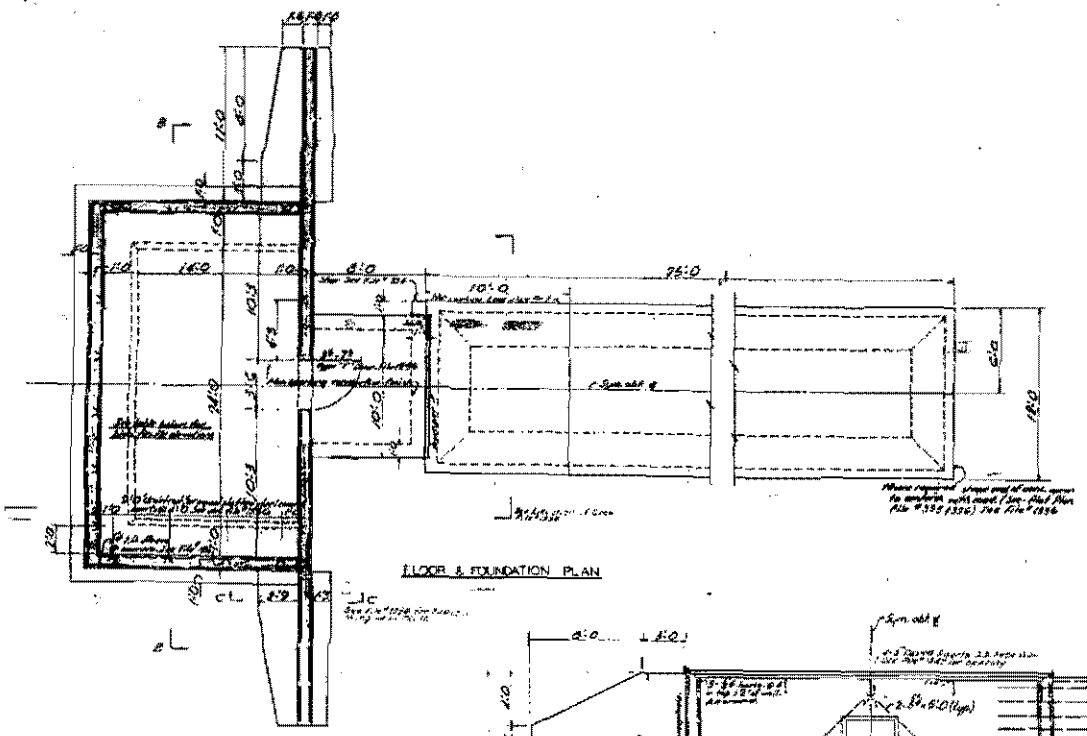
Alterations

List of Drawings (Cntrl + Enter for para break)

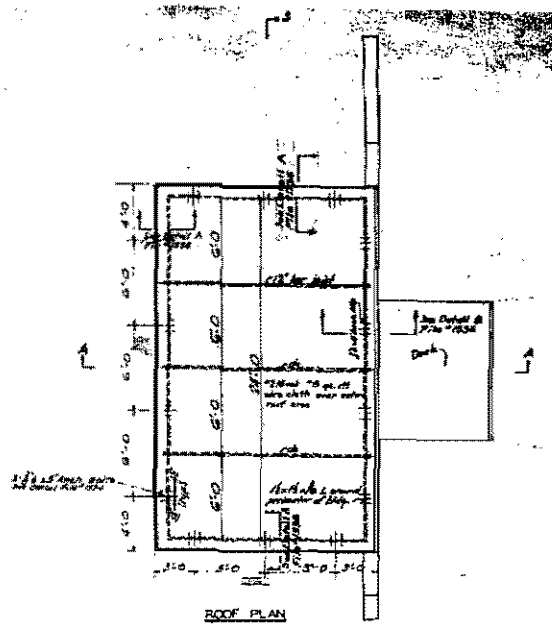
ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

ENG-R 3083
TA-37 Bldg. MAC-8, [TA-37-8]
Floor Plan
August 20, 1964

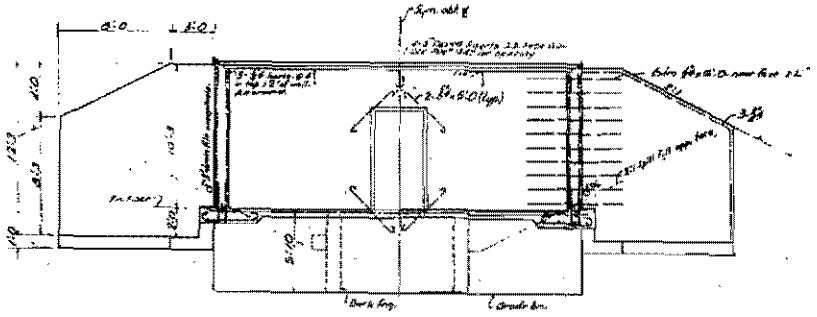
TA-37-8 South Southwest Elevation



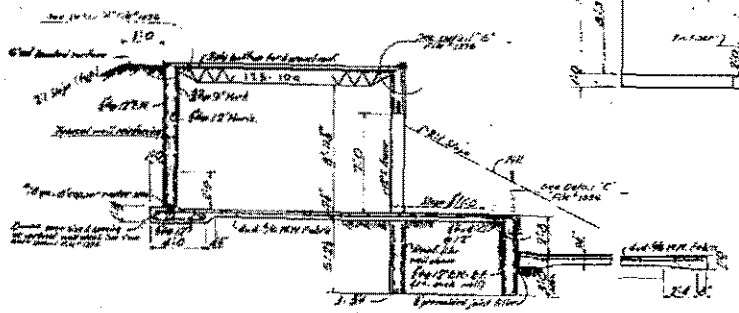
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B-B



SECTION A-A

General Notes

1. All concrete shall be type A1 shall develop a strength of 3000 p.s.i. @ 28 days.
2. Add 5 lb. cement dispersor with each sack of cement used.
3. 2 Reinforcement shall be interrupted to provide unbarred bars.
4. Exterior wall forms shall be of plywood & walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls, ceilings & all exposed metal shall be given 3 coats of lead & oil paint.
6. Exterior slab walls that are to be covered with earth shall be waterproofed with 3 plies felt & coal tar pitch.
7. Barrel reinforcing steel to be welded @ 8'-0" intervals in each direction. Barrel will either metal be reinforcing steel by direct weld or suitable metal straps.
8. Conduit reinforcement to be run with #4 bare threaded copper cable.
9. Where drains are placed, cove slab shall be given a non-scratching sand-drive float finish. Slabs shall be poured in 2 courses, top course 4" thick. Construction joints shall be grouted.
10. All 12" connected centers of all finished walls shall be applied over earth 6" above finished grade.
11. All foundations shall be carried to solid bearing with a min. reinforcement of 12" into rock (Typ.)
12. Foundation walls 6" below finish grade may be poured without formsby provided trenches are cut to a minimum as plans.
13. The 25' water check system is to be considered as part of the building.

Building Number	Plot on North Service road	Finish Elevation
3701	4+35.5	7718.0
3704	5+85.5	7730.0
3705	8+00.0	7731.7
3706	9+95.0	7734.8
3707	11+92.0	7739.0
3708	13+95.0	7743.4
3709	15+95.0	7747.8
3710	17+75.0	7751.7

REFERENCE DRAWINGS

Plot Plan	File # 1384 & 1396
Electrical Layout	" 1347
Door Assy Details	" 1338
Typical Details	" 1336

AS CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT (29-1) 725

SUBMITTED

RECEIVED

APPROVED

Scale: 1/16" See Also File # 1385

STRUCTURAL LAYOUT - "BUILDINGS" SPECIFICATIONS INC. BLDGS. WERE 301 THRU 306 | NOW 3401 THRU 3406

PLANS & SECTIONS

LOS ALAMOS T A - 33 NEW MEXICO

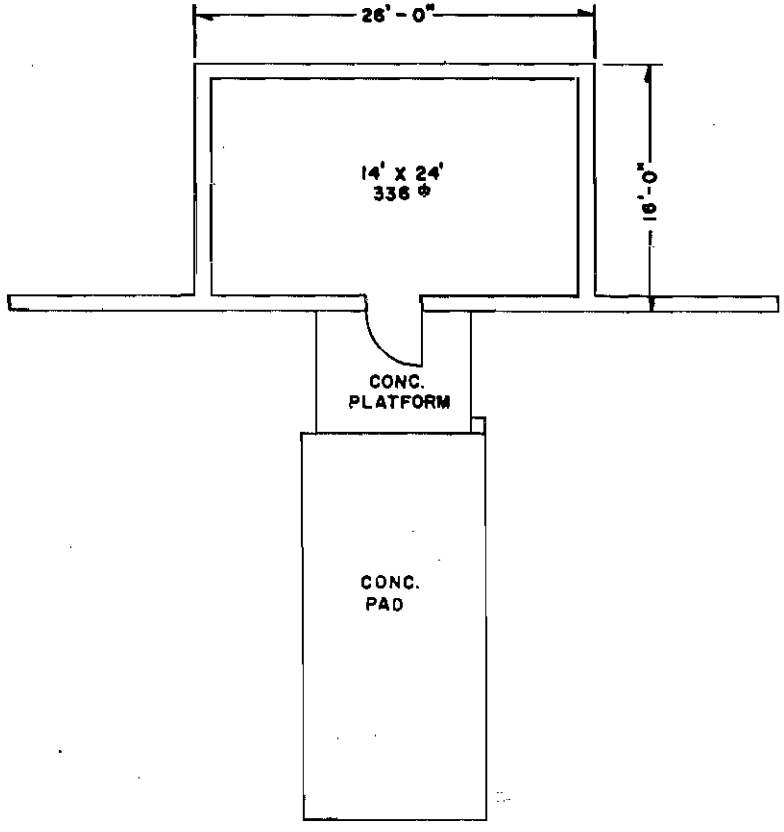
BLACK & VEATCH — CONSULTING ENGINEERS

DATE 6/21/49

255

SHEET 37

LAB JOB 186 L.A.S.L.DWG.NO.ENG-C 1799 SFA-EF-117



RECEIVED INTO LOCATED IN VAULT

AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	
SEC.	

TOTAL SQ. FT. 336

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

FLOOR PLAN
BLDG. MAC-8 TA-37

APPROVALS
ENG. GROUP: 3 SER
DIVISION:
ENG. DEPT. OFFICE:

DESIGN:
DESIGNER: BREMER
PROJ. ENG.:

DATE: 8/20/64
SCALE: 1/8" = 1'-0"
SHEET: 1 OF 1
SKETCH NO.: ENG.-R3063

H+E LA 0602

INFO. SHOWN CURRENT AS OF 8/4/64

S. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0009

Camera PN #984242

Frame #s DCP_0242 & DCP_2280

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381196 northing 3966058 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-8 and TA-37-10 through TA-37-27.

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

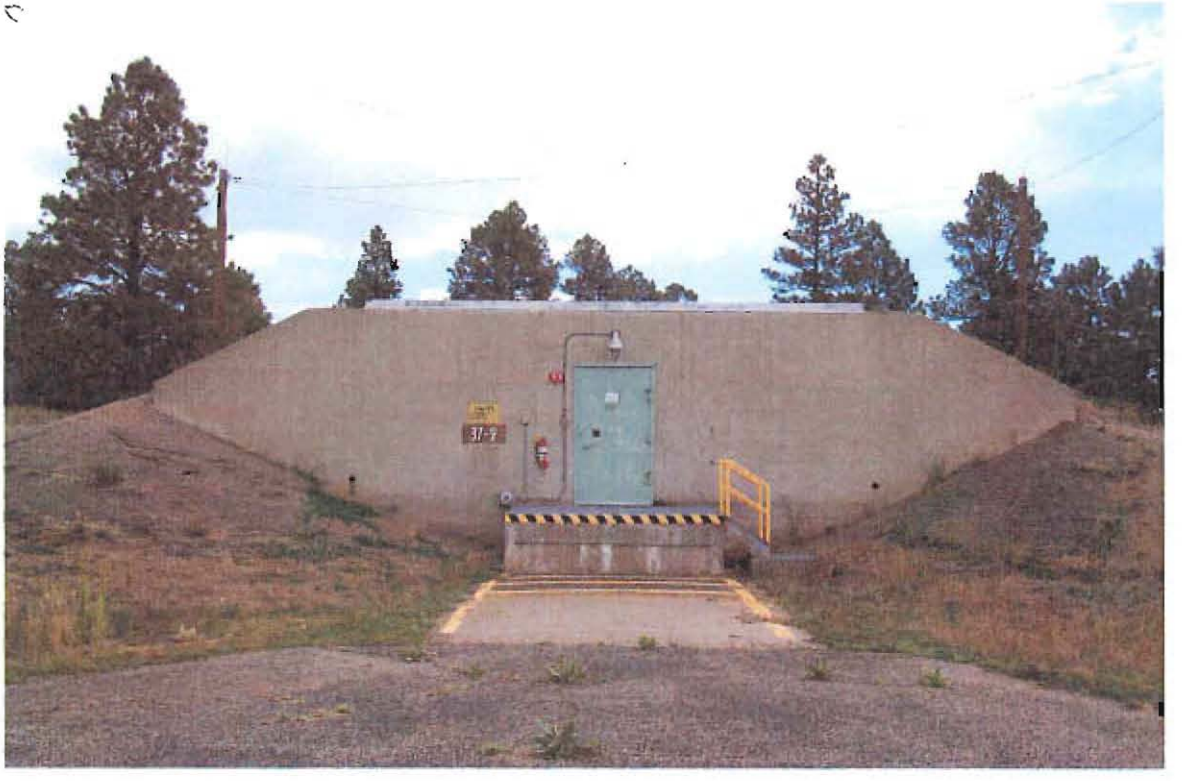
Total sq ft 336 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

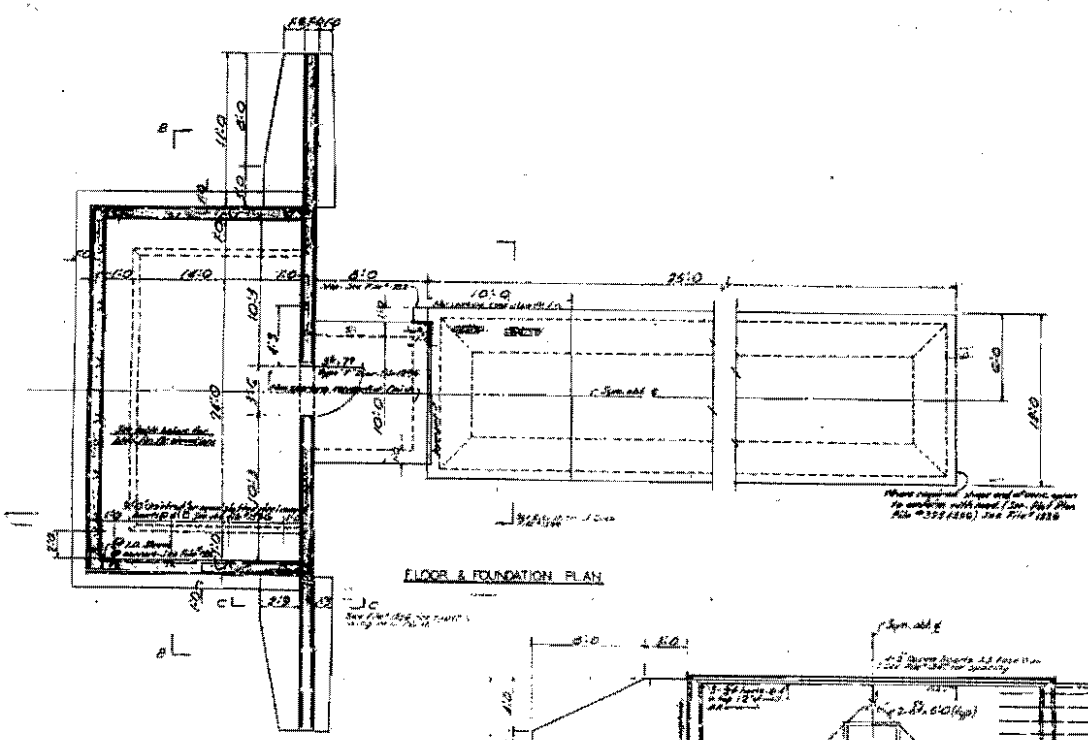
List of Drawings (Cntrl + Enter for para break)

ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

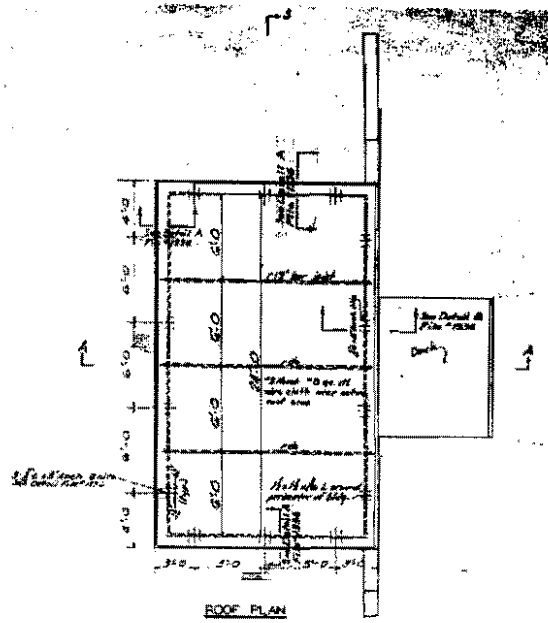
ENG-R 3084
TA-37 Bldg. MAC-9, [TA-37-9]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984



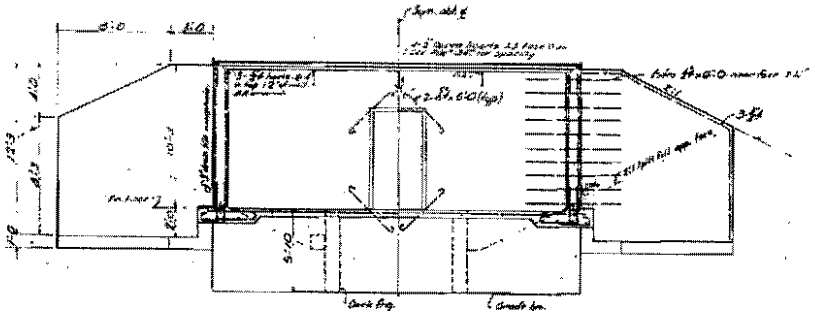
TA-37-9 South Elevation



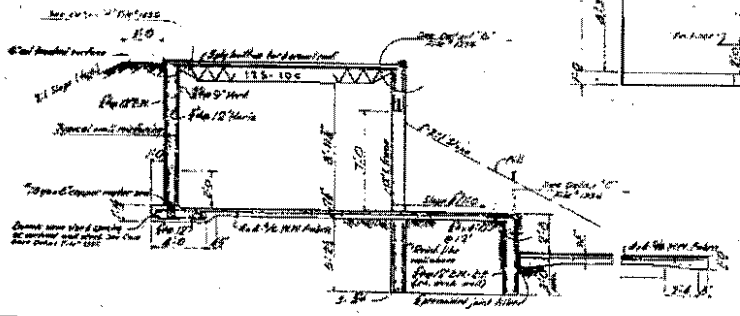
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

Building Number	Unit or North Service Road	Floor Elevation
2703	4+37.5	7116.0
2704	5+65.37	7834.0
2705	6+00.0	7951.7
2706	9+95.0	7896.9
2707	11+55.0	7951.0
2708	13+95.0	7883.4
2709	15+98.0	7970.4
2710	17+98.0	7897.7

General Notes

1. All concrete shall be type A-1 shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mix 1 sk. cement of water with each sack of cement used.
3. Reinforcement shall be intermittite grade as noted here.
4. Exterior wall forms shall be of plywood & shall be finished smooth. Interior walls may be left rough.
5. Exterior walls, existing & all exposed metal shall be given 2 coats of lead & oil paint.
6. Exterior walls, walls that are to be covered with earth shall be waterproofed with 3 coats of coal tar pitch.
7. Bend all reinforcing steel by welding @ 3½ D Stirrups as noted otherwise. Bend all other steel in machining steel by closed mold or portable bending stirrups.
8. Structural reinforcement for grounding system with ¾" ø bare stranded copper cable.
9. Where shown on plans, crack slab shall be given a non-sterling application (Non-Yellow). Slabs shall be grooved in 2 directions, not more than 15' thick. Construction joints shall be grooved.
10. All 3" unexposed surfaces of all finished earth shall be applied over earthfill above original grade.
11. All foundations shall be carried to solid bearing with a min. recommended 12" min. thick (T.B.)
12. Foundation walls 6" below the garage may be poured without forming provided trenches are cut to size shown on plans.
13. The 25' clear check opening is to be excluded as part of the building.

Reference Drawings

Dial Plans	File # 395 & 396
Electrical Layout	#1967
Door Assy Details	#1836
Typical Details	#1896

AS CONSTRUCTED DRAWING

Scale: 1/4"=1'0" See Also File # 1896

STRUCTURAL LAYOUT - BUILDINGS 2705 TO 2710 INCL. BLDGS. WERE 301 THRU 308 THRU MAC-3 THRU MAC-8

PLANS & SECTIONS

LOS ALAMOS T A - 37 NEW MEXICO

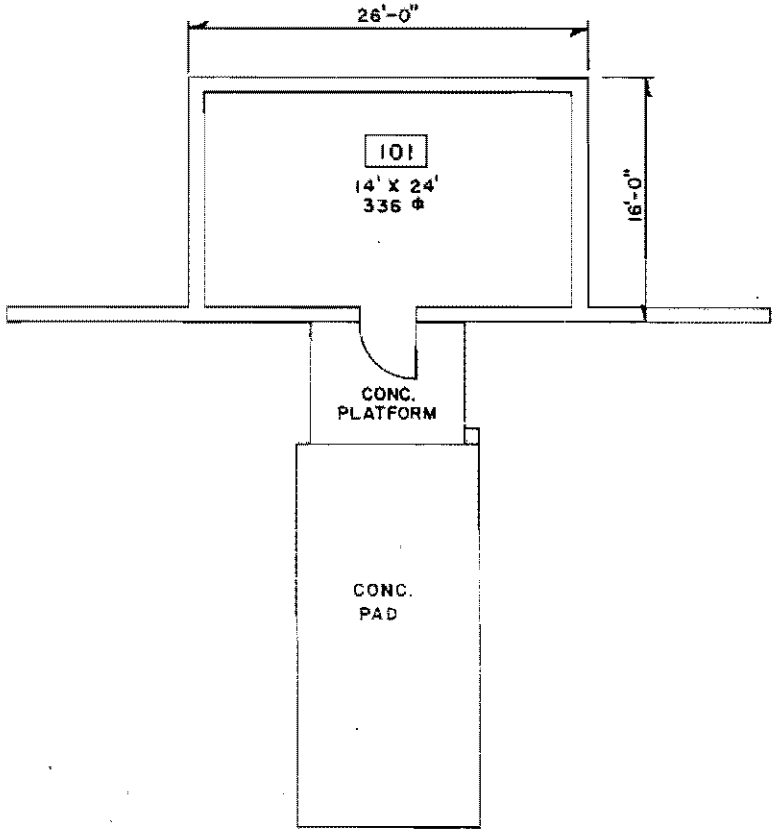
BLACK & VEATCH — CONSULTING ENGINEERS

File No. 255

Date 6/21/74

Sheet 1 of 37

LAB JOB 126 L.A.S.L. DWG. NO. ENG-C 1793 SFA-65-117



TOTAL SQ. FT. 336

REV.	DATE	REVISION	BY	CKD	APP.
M	6-8-84	REVISED TO STATUS OF 6-8-84	HBY	Ed	TM

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-9 TA-37

SEC. CLASSIFICATION
CLASS. M
REVIEWER Bradrick
DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dan Rogers	W. T. Edmunds

DRAWN	DATE	SHEET NO.	DRAWING NO.
BREMER	8-20-64	1 OF 1	ENG-R3084
CHECKED Reinlie			

K+E ALBUQUERQUE LA 0005

4/89

LANL TA- Building # 37-0010

Camera PN #984242

Frame #s DCP_0243 & DCP_2280

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381249 northing 3966055 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, an explosion-proof switch, conduit, a fire extinguisher, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8 -in. high concrete 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-9 and TA-37-11 through TA-37-27.

Integrity Excellent

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 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 Magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 24 ft by 16 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1- ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

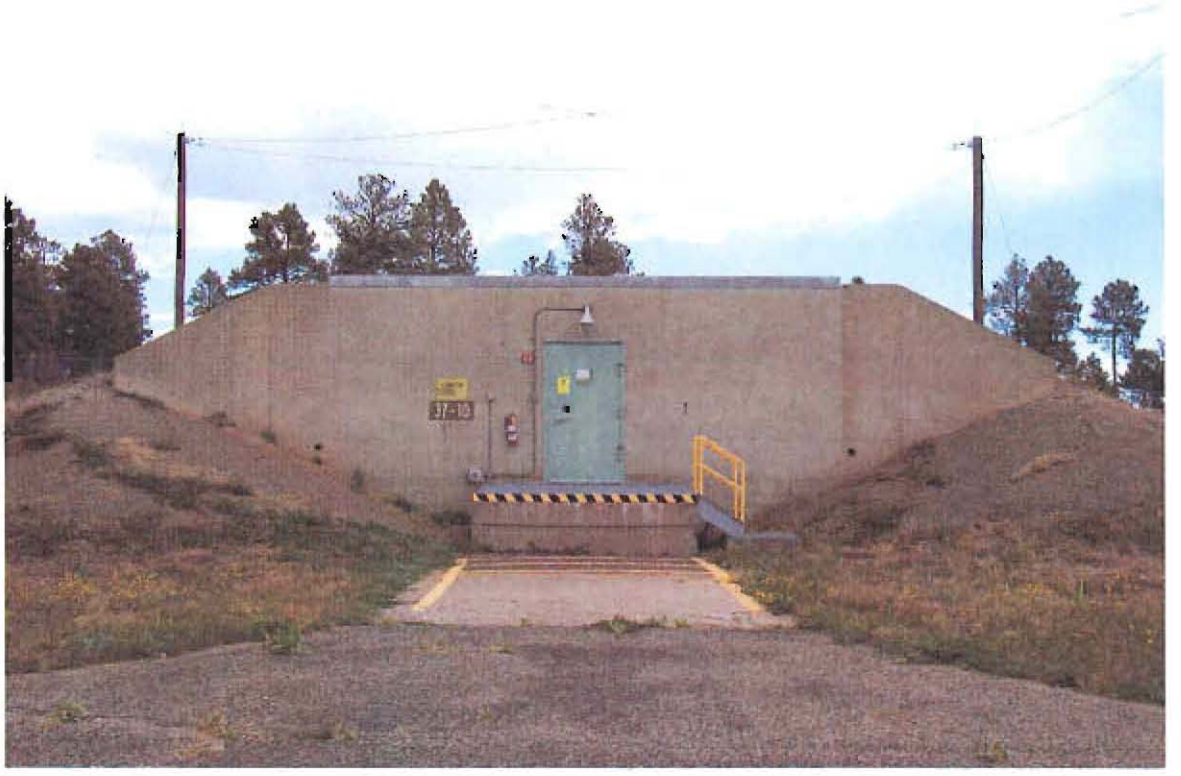
Total sq ft 336 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

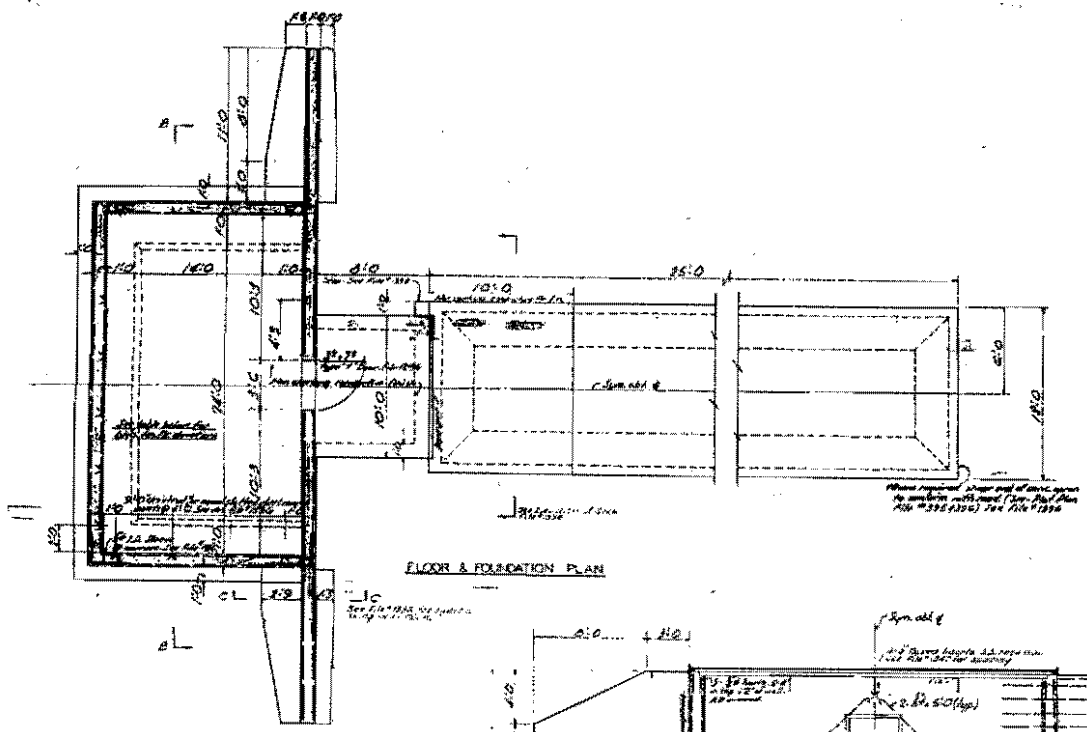
List of Drawings (Cntrl + Enter for para break)

ENG-C 1799
Sheet 7 of 37
Structural Layout - Bldgs No. 3703 to 3710
(MAC-3 thru MAC-10), [TA-37-3 thru TA-37-10]
Plans & Sections
June 3, 1949

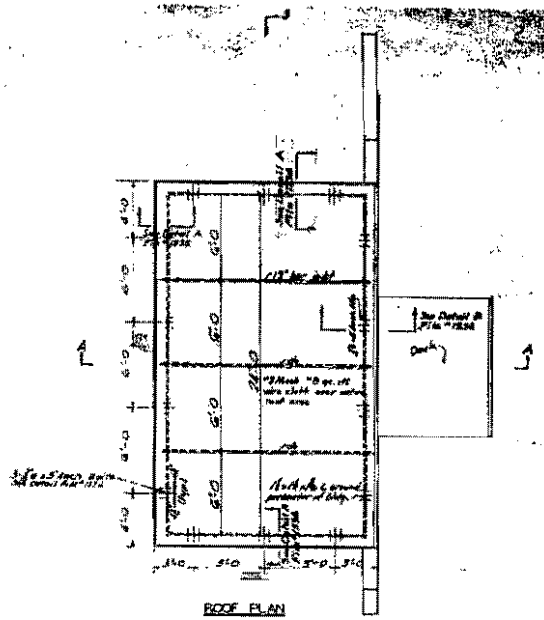
ENG-R 3085
TA-37 Bldg. MAC-10, [TA-37-10]
Floor Plan
August 20, 1964



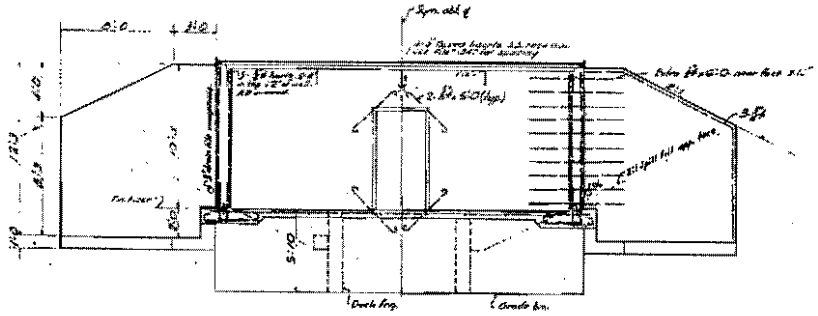
TA-37-10 South Elevation



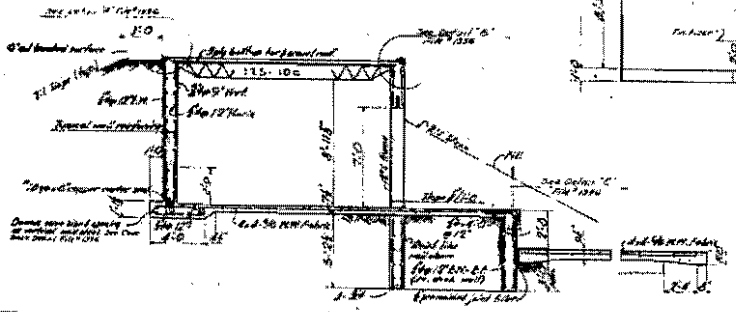
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

General Notes

1. All concrete shall be type A-1 shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mix of the cement all concrete with each sack of cement used.
3. Reinforcement shall be in accordance to grade delivered bars.
4. Exterior wall footing shall be of plywood finish shall be finished smooth. Exterior walls may be left rough.
5. Exterior wall & ceiling of all exposed metal shall be given 3 coats of Lead & oil paint.
6. Exterior slab, walls that are to be covered with earth shall be waterproofed with 3 plies felt & coal tar pitch.
7. Sand construction shall be reinforced @ 24" O.C. both directions, Bend all other metal to mechanical steel by correct metal or suitable metal straps.
8. Diamond reinforcement to grounding system with #6 bare stranded copper cable.
9. Where shown on plans each stud shall be given a non-corroding anti-friction Paper finish.
10. Studs shall be placed in 2 courses, the course 16" thick. Combustion board shall be provided.
11. At 6" compacted surface of all finished earth shall be applied over earth fill above original grade.
12. All foundations shall be carried to solid bearing with a min. min. width of 12" in rock (T.B.M.)
13. Foundation walls 6" below for grade may be poured without forming provided trenches are cut to same shown on plans.
14. The 2" face block option is to be included as part of the building.

Building Number	Unit or North Service road	Floor Elevation
3703	4'-35.5	7130.0
3704	5'-85.17	7124.0
3705 T	8'-60.0	7125.7
3706	9'-96.0	7130.9
3707	10'-35.0	7128.0
3708	13'-75.0	7123.4
3709	15'-95.0	7122.4
3710	17'-52.0	7127.7

Revision Designation

Plot Plans	File # 352 & 336
Electrical Layout	#347
Door Assy Details	#1254
Typical Details	#336

A.B. CONSTRUCTED DRAWING

CONSTRUCTION CONTRACT NO. AT (29-1) 1799

SUBMITTED

RECOMMENDED

APPROVED

Scale: 3/16" See Also File # 1396

STRUCTURAL LAYOUT - BUILDINGS #3703 to #3710 INCL. BLDGS. WERE 301 THRU 308 | NOW MAC-3 THRU MAC-10

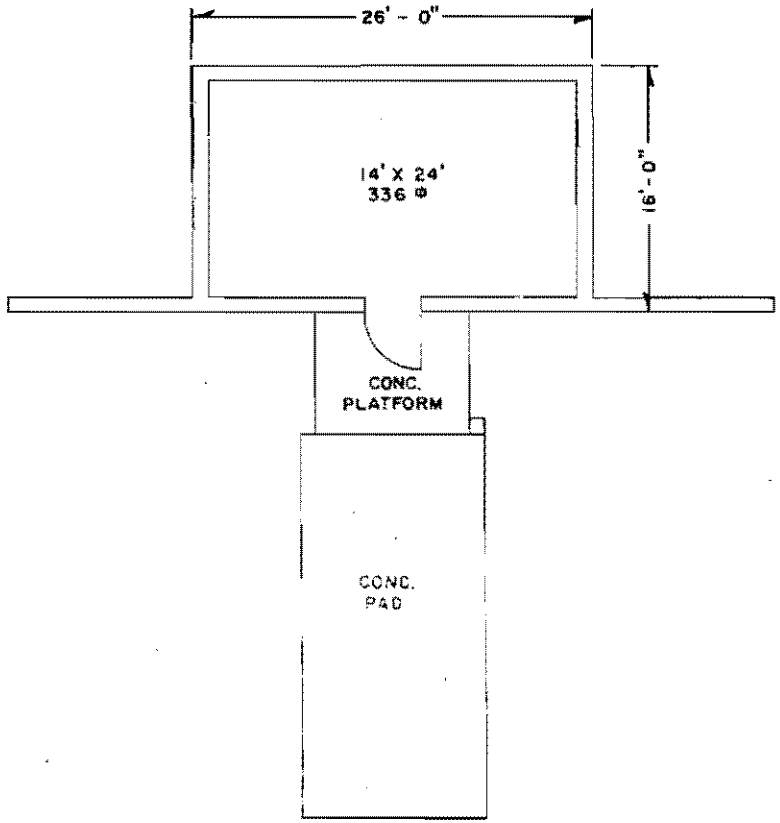
PLANS & SECTIONS

LOS ALAMOS T A - 37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

File No.	255
Drawn	K. Schwartz
Traced	12-10-57
Checked	Ind
Date	1-3-58
Sheet No.	37

LAB JOB 186 LA.S.L.DWG.NO.ENG-C 1799 SFA-EP-1/7



AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	
SEC.	

TOTAL SQ. FT. 336

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

FLOOR PLAN
BLDG. MAC-10 TA-37

APPROVALS:
ENG. GROUP: 3 ER
DIVISION:
ENG. DEPT. OFFICE:

DESIGN:
DESIGNER: BREMER
PROJ. ENG.:

DATE: 8/20/64
SCALE: 1/8" = 1'-0"
SHEET: 1 OF 1
SKETCH NO.: ENG.-R3085

K-E ALBUQUERQUE LA 0803

INFO. SHOWN CURRENT AS OF 8/4/64

B. A. NO. J. O. NO. LAB. JOB

LANL TA- Building # 37-0011

Camera PN #984242

Frame #s DCP_0244 & DCP_2281

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381304 northing 3960059 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10-ft wide by 8 -ft deep by 2 -ft 8 -in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 thru-10, -12 thru -27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 28 ft by 44 ft. The single interior room contains 1008 ft2 of usable floor space. The structure was constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

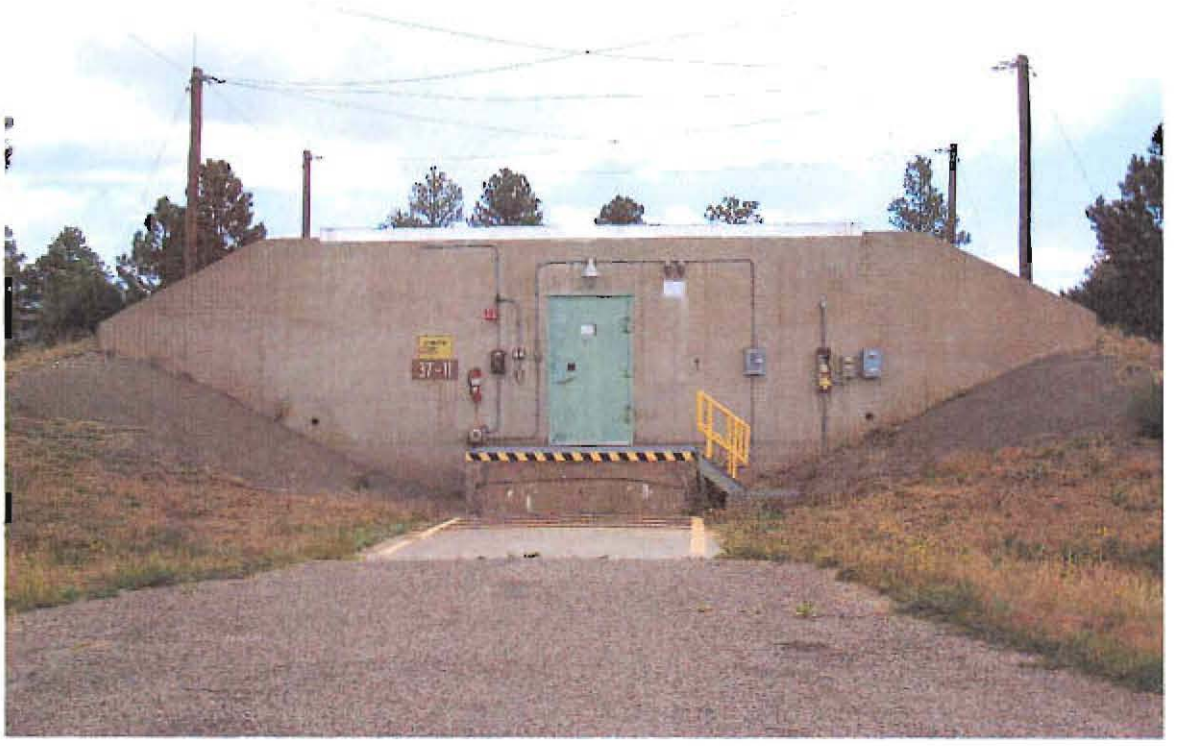
Total sq ft 1008 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

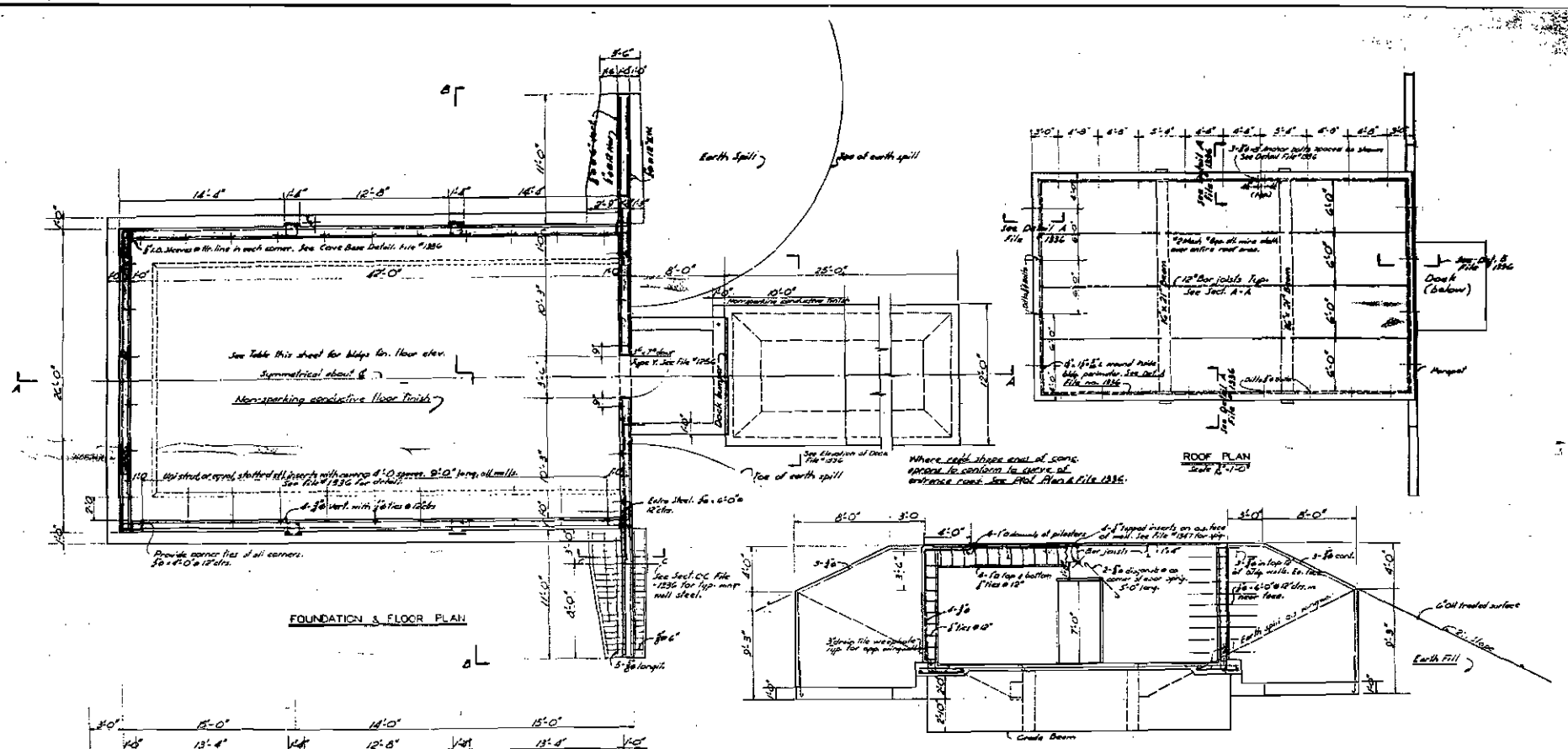
List of Drawings (Cntrl + Enter for para break)

ENG-C 1800
Sheet 8 of 37
Structural Layout - Bldgs No. 3711 to 3714 (MAC-11 thru MAC-14), [TA-37-11 thru TA-37-14]
Plans & Sections
June 3, 1949

ENG-R 3086
TA-37 Bldg. MAC-11, [TA-37-11]
Floor Plan
August 21, 1964



TA-37-11 South Elevation



Notes

1. All concrete shall be Type A-1 and shall develop a strength of 3000 psi. @ 28 days.
2. Mix 5 lb. cement dispersion with each sack of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Interior wall forms shall be of plywood and walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls ceiling & all exposed metal shall be given 3 coats of lead & oil paint.
6. Exterior building walls that are to be covered with earth shall be waterproofed with 3 plies felt & coal tar pitch.
7. Bond reinf. steel by welding @ 3'-0" intervals in each direction. Bond all other metal to reinf. steel by direct weld or suitable metal straps.
8. Connect reinforcement to grounding system with #10 bare stranded copper cable.
9. Where shown on plans concrete slabs shall be given a non-sparking conductive finish. Slabs shall be placed in two courses, top course 2" thick. Conductive finish shall be grounded.
10. A 6" compacted surface of all treated earth incl. be applied over earth fill above original grade.
11. All foundations shall be carried to solid bearing with a min. excavation of 12" into rock. (Ref.)
12. Foundation walls 6" below fin. grade may be poured without forming provided trenches are cut to size shown on plans.
13. The 6" concrete apron slopes 1/2" to be inclined 1/2 out of the building.

Reference Drwgs.

	File No.
Plot Plan	336
Door Assembly Details	1336
Electrical Layout	1347
Typical Details	1336

Scale 1/4"=1'-0" unless noted. See also File #1336

BLOCK NO.	STATION FT. SERVICE ROAD	FIN. FLOOR ELEV.
371	19+55	7267.5
371	21+35	7263.1
371	23+00	7258.3
371	25+00	7249.8

STRUCTURAL LAYOUT - BLOCKS 371 TO 374 INCL.
BLDGS WERE TO1 THRU 704; NOW MAG11 THRU MAG14
PLANS & SECTIONS

File No. 259

LOS ALAMOS T.A.-37 NEW MEXICO

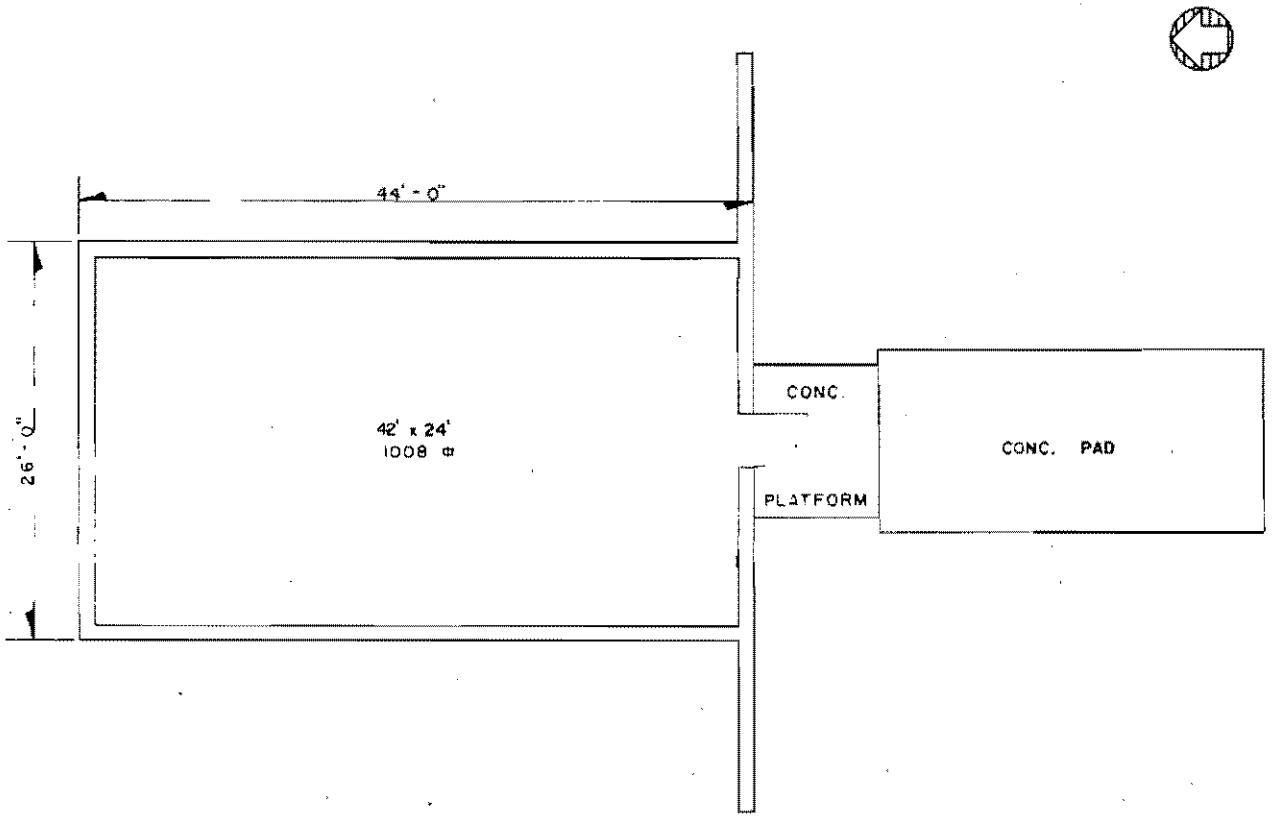
BLACK & VEATCH — CONSULTING ENGINEERS

Date 6-9-49

Sheet 8 of 37

AS CONSTRUCTED DRAWING
AT (28-1) 779
CA Jones

LAB JOB 188 L.A.S.L.DWG.NO.ENG-C-1800 SFA-EF-1/62



AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	
SEC.	

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

FLOOR PLAN
BLDG. MAC-11 TA-37

APPROVALS:
ENG. GROUP: 3
DIVISION:
ENG. DEPT. OFFICE:

DESIGN:
DESIGNER: WIMBERLEY
PROJ. ENG.:

DATE	SCALE
8/21/64	1/8" = 1'-0"
SHEET	SKETCH NO.
1 OF 1	ENG.-R3086

TOTAL SQ. FT. 1008

K+E ALBUQUERQUE LA 0809

INFO. SHOWN CURRENT AS OF 8/4/64

B. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0012

Camera PN #984242

Frame #s DCP_0245 & DCP_2282

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381359 northing 3966057 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10-ft wide by 8 -ft deep by 2 -ft 8 -in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-11 and TA-37-13 through TA-37-27.

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 28 ft by 44 ft. The single interior room contains 1008 ft2 of usable floor space. The structure was constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 1008 net

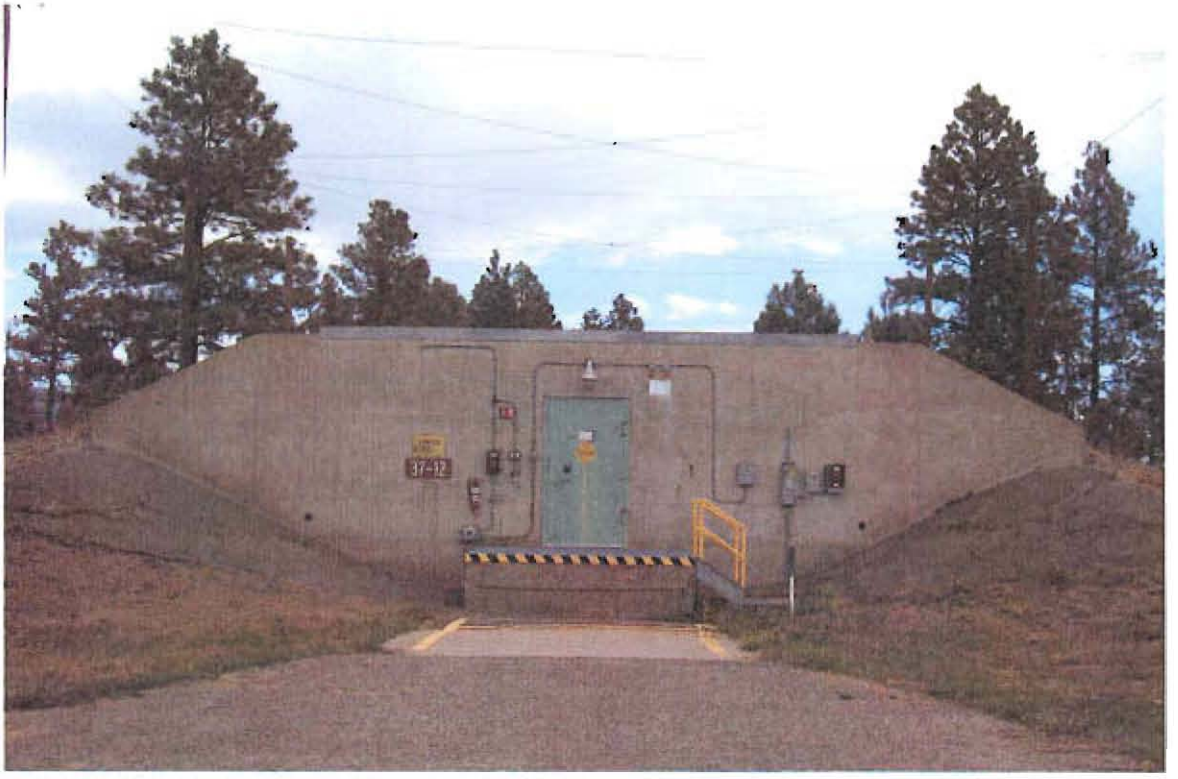
Architect/ Builder Black & Veatch Consulting Engineers

Alterations

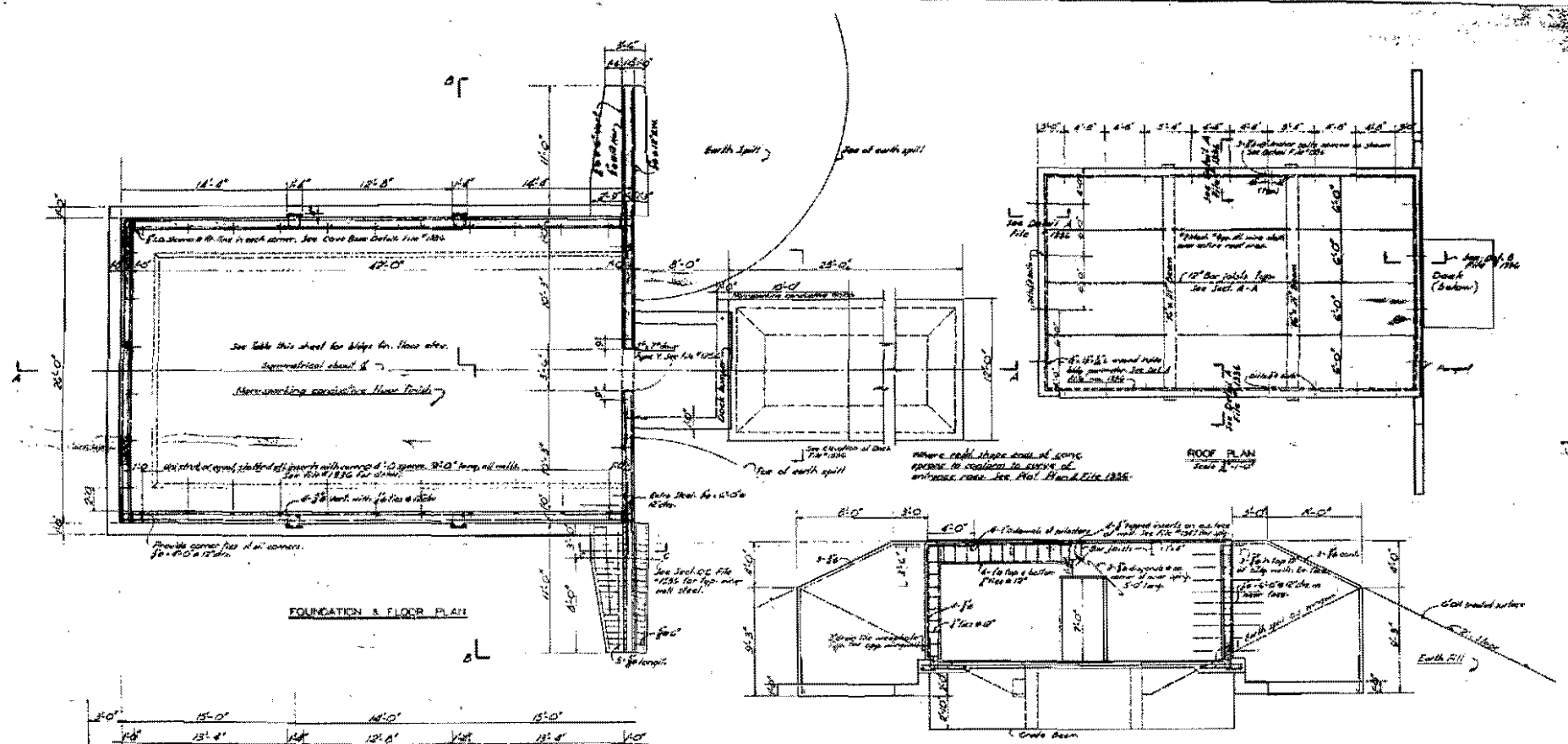
List of Drawings (Cntrl + Enter for para break)

ENG-C 1800
Sheet 8 of 37
Structural Layout - Bldgs No. 3711 to 3714 (MAC-11 thru MAC-14), [TA-37-11 thru TA-37-14]
Plans & Sections
June 3, 1949

ENG-R 3087
TA-37 Bldg. MAC-12, [TA-37-12]
Floor Plan
August 20, 1964



TA-37-12 South Elevation



Notes

1. All concrete shall be Type A & shall develop a strength of 3000 psi @ 28 days.
2. Mix & lb. cement proportion with each sack of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Interior wall forms shall be of plywood and wall shall be finished smooth. Exterior walls may be left rough.
5. Interior walls ceiling & all exposed metal shall be given 3 coats of best & oil paint.
6. Exterior building walls that are to be covered with earth shall be waterproofed with 3 ply felt & coat for pitch.
7. Bond reinf. steel by tieing @ 5'-0" intervals in each direction. Bond all other metal to reinf. steel by direct weld or suitable metal straps.
8. Connect reinforcement to grounding system with #10 bare stranded copper cable.
9. Where shown on plans concrete slabs shall be given a non-sparking conductive finish. Slabs shall be placed in two courses, top course 2" thick. Conductive finish shall be provided.
10. A 6" compacted surface of all treated earth shall be sealed over earth fill above engine room.
11. All foundations shall be carried to solid bearing with a min. projection of 12" into rock (Typ.)
12. Foundation walls 6" below fin. grade may be poured without shoring provided trenches are cut to size shown on plans.
13. The 25" concrete grade beam is to be anchored as part of the building.

REFERENCE DRAWINGS

Plot Plan	File No 396
Door Assembly Details	1356
Electrical Layout	1367
Typical Details	1336

BLDG NO.	STATION-TO-STATION RUN	FIN. FLOOR ELEV.
311	10+55	7067.5
312	21+35	7065.1
313	23+00	7063.3
314	25+00	7059.8

Scale 1/4"=1'-0" Unless noted. See also File #1346

AS CONSTRUCTED DRAWING
AT (E9-1)T79
CA Kennedy
Resident Engineer

STRUCTURAL LAYOUT - BLDGS. 311 TO 314 INCL.
BLDGS WERE 101 THRU 104; NOW NUMBER THRU MAG-14
PLANS & SECTIONS

File No. 259

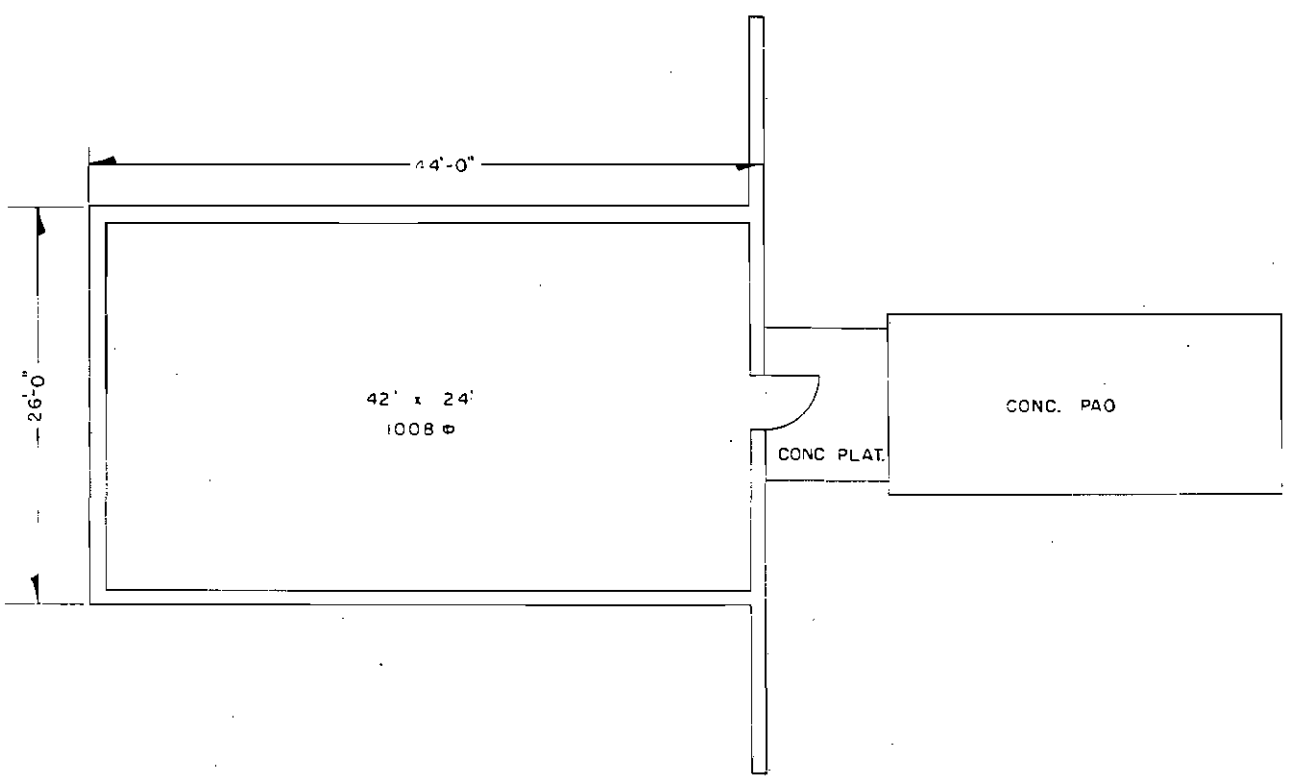
LOS ALAMOS T.A.-37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

Sheet 5 of 37

LAB JOB 188

L.A.S.L.DWG.NO.ENG-C-1800 SFA-ER-1/6-2



AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	
SEC.	

TOTAL SQ. FT. 1008

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

FLOOR PLAN
BLDG. MAC-12 TA-37

APPROVALS:
ENG. GROUP: SER
DIVISION:
ENG. DEPT. OFFICE:

DESIGN:
DESIGNER: RAGSDALE
PROJ. ENG.:

DATE	SCALE
8/20/64	1/8" = 1'-0"
SHEET	SKETCH NO.
1 OF 1	ENG-R3087

K-E ALBANENE® LA CROSS

INFO. SHOWN CURRENT AS OF 8/4/64

B. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0013

Camera PN #984242

Frame #s DCP_0246 & DCP_2282

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381415 northing 3966055 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10-ft wide by 8 -ft deep by 2 -ft 8 -in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-12 and TA-37-14 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 28 ft by 44 ft. The single interior room contains 1008 ft2 of usable floor space. The structure was constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 1008 net

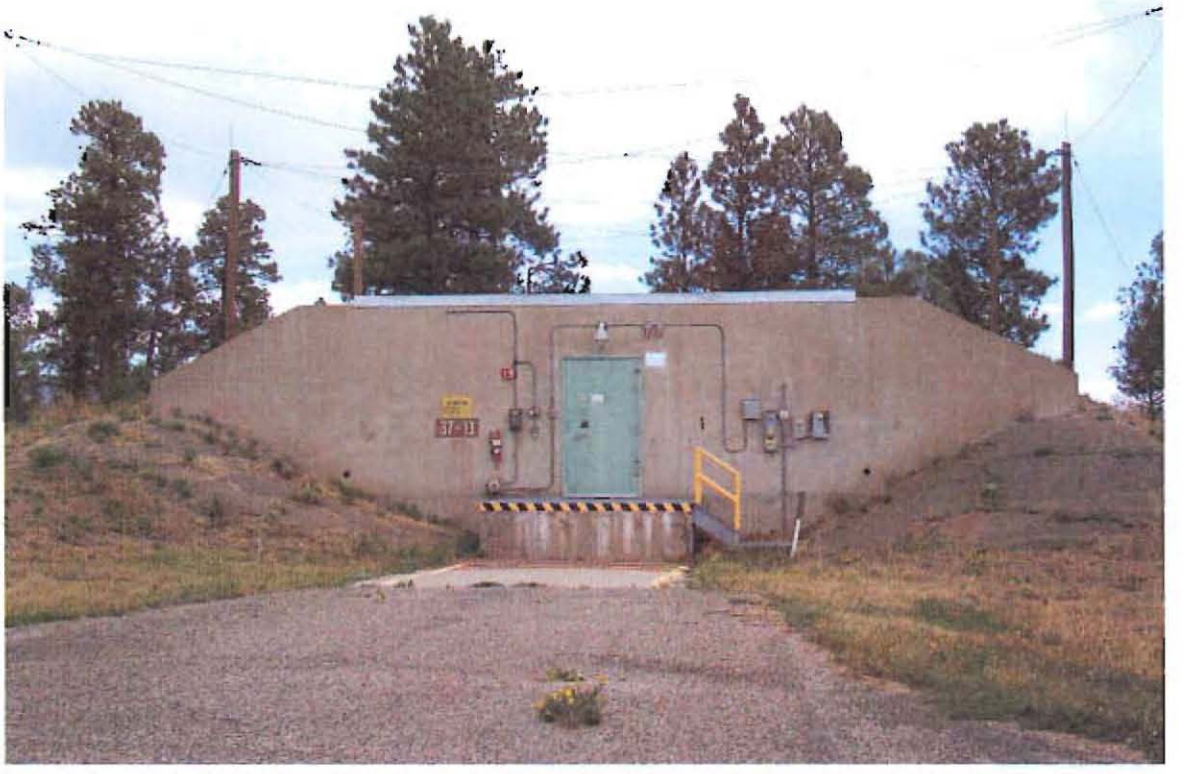
Architect/ Builder Black & Veatch Consulting Engineers

Alterations

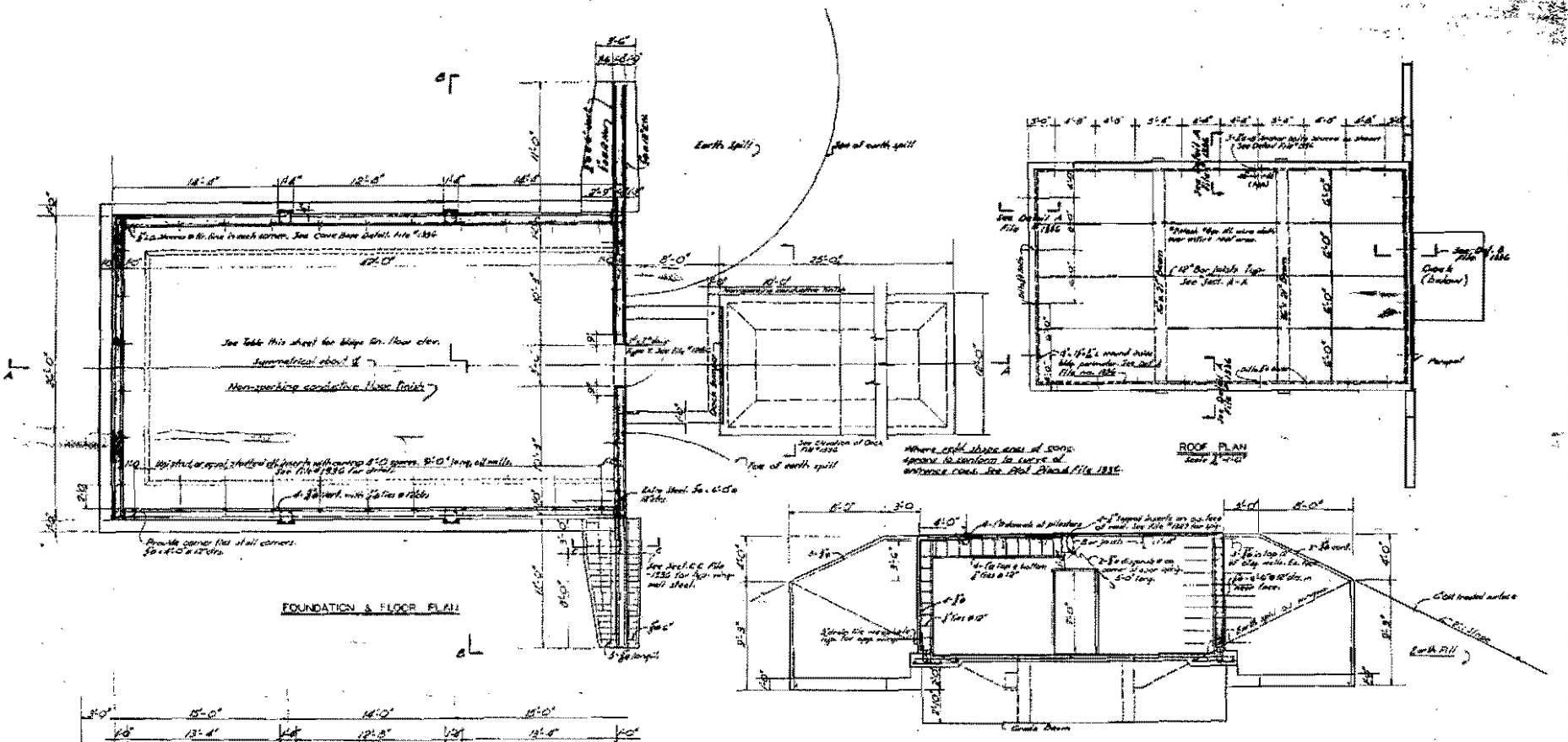
List of Drawings (Cntrl + Enter for para break)

ENG-C 1800
Sheet 8 of 37
Structural Layout - Bldgs No. 3711 to 3714 (MAC-11 thru MAC-14), [TA-37-11 thru TA-37-14]
Plans & Sections
June 3, 1949

ENG-R 3088
TA-37 Bldg. MAC-13, [TA-37-13]
Floor Plan
August 20, 1964
Revisied to status of June 8, 1984



TA-37-13 South Elevation



Reference Drawings

Plot Plan	File No. 1836
Door & specialty Details	1856
Electrical Layouts	1867
Typical Details	1892

Notes

1. All concrete shall be Type A & shall develop a strength of 3000 psi. @ 28 days.
2. Mix 5 lb. entrained dispersion with each sack of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Interior wall forms shall be of plywood and walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls ceiling & all exposed metal shall be given 3 coats of lead & oil paint.
6. Exterior bunding north front are to be covered with earth shall be waterproofed with 3 splits felt & coal tar pitch.
7. Blank rank steel by welding a 3'-0" intersect in each direction. Bend all other model to round steel by street metal or suitable metal shape.
8. Connect reinforcement to grounding system with #1/0 bare stranded copper cable.
9. Where shown on plans concrete slabs shall be given a non-sparking conductive finish. Slabs shall be placed in two courses, top course 3" thick. Conductive finish shall be grounded.
10. All exposed surfaces of all finished earth shall be applied over earth fill cover drawing #1816.
11. All floor slabs shall be carried to solid bearing with a min. excavation of 3' and pockets (if any).
12. Foundation walls 6" below fin. grade may be poured without forming provided thickness are not to less shown on plans.
13. The 12" concrete piers shall not to be reckoned as part of the building.

BLDG. NO.	STATIONING SPANS NO.	FIN. FLOOR ELEV.
371	19+55	7967.3
371A	21+35	7965.1
371A	23+00	7958.3
371A	25+00	7948.8

Scale 1/4" = 1'-0" unless noted. See also File "1836"

STRUCTURAL LAYOUT — BLDGS. 371 TO 376A INCL.
BLDGS WERE TO THRU 376; NOW 366A THRU 366/B
PLANS & SECTIONS

PROJECT 259

BLACK & VEATCH — CONSULTING ENGINEERS

DATE 6-3-49

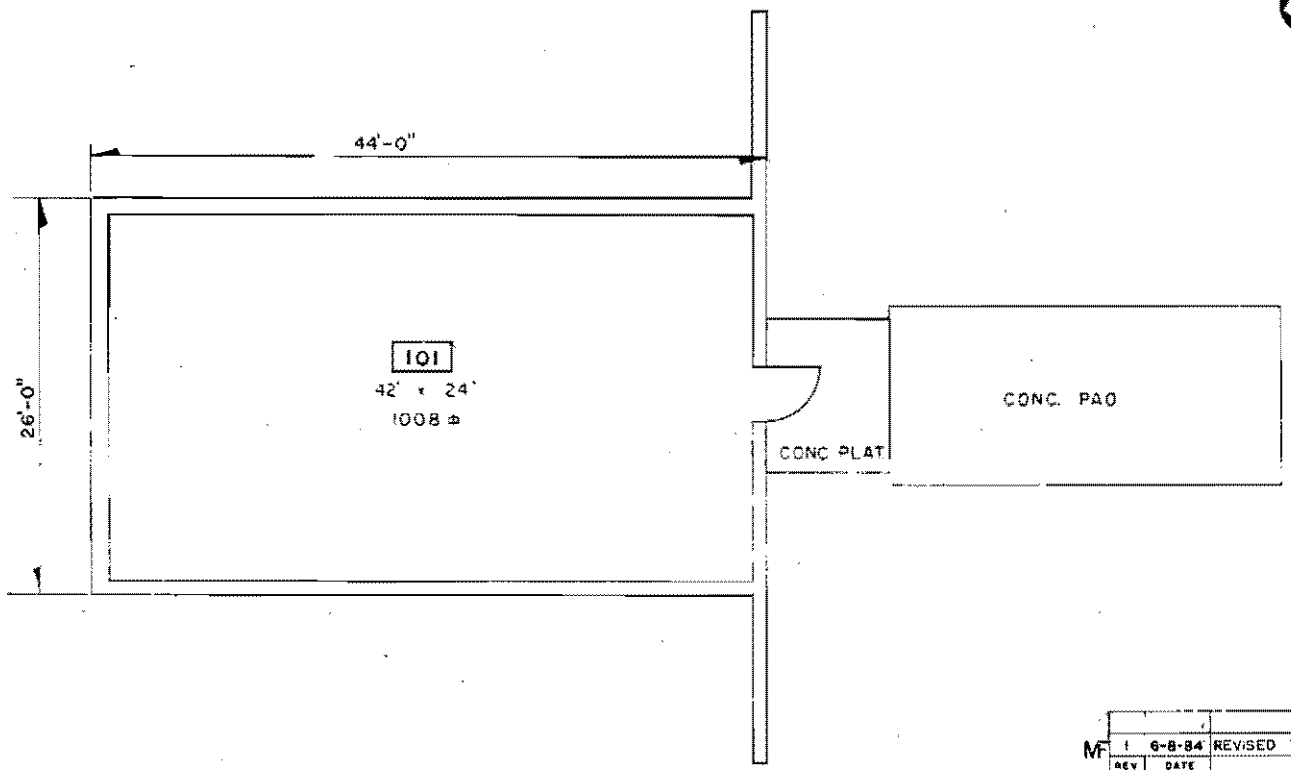
SHEET 8 OF 37

T.A.-37

LAS DWG. NO. ENG-D 1800

LAB JOB 186

SFA-EP-1A2



1/8"= 1'-0"

0 5 10 15

GRAPHIC SCALE

TOTAL SQ. FT. 1008

REV	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HRAN		CP

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-13 TA-37

SEC. CLASSIFICATION
CLASS: U
REVIEWER:
DATE:

SUBMITTED	RECOMMENDED	APPROVED
E Trujillo	Dan Ragsdale	C.F. Eckhardt

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
RAGSDALE		8-20-64	1 OF 1	ENG-R 3088

K-E

LANL TA- Building # 37-0014

Camera PN #984242

Frame #s DCP_0247 & DCP_2283

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381479 northing 3966026 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) The magazine is equipped with a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, and informational 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 Flat

Degree of Pitch/ Slope Slight

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

Other Roof Materials Steel bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Pair of reinforced metal 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 Unknown/None

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

Associated Building ☑

If yes, list building names and #s TA-37-1 through TA-37-13 and TA-37-15 through TA-37-27.

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 28 ft by 44 ft. The single interior room contains 1008 ft2 of usable floor space. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing. The magazine is located at grade level with a concrete apron but no dock.

Total sq ft 1008 net

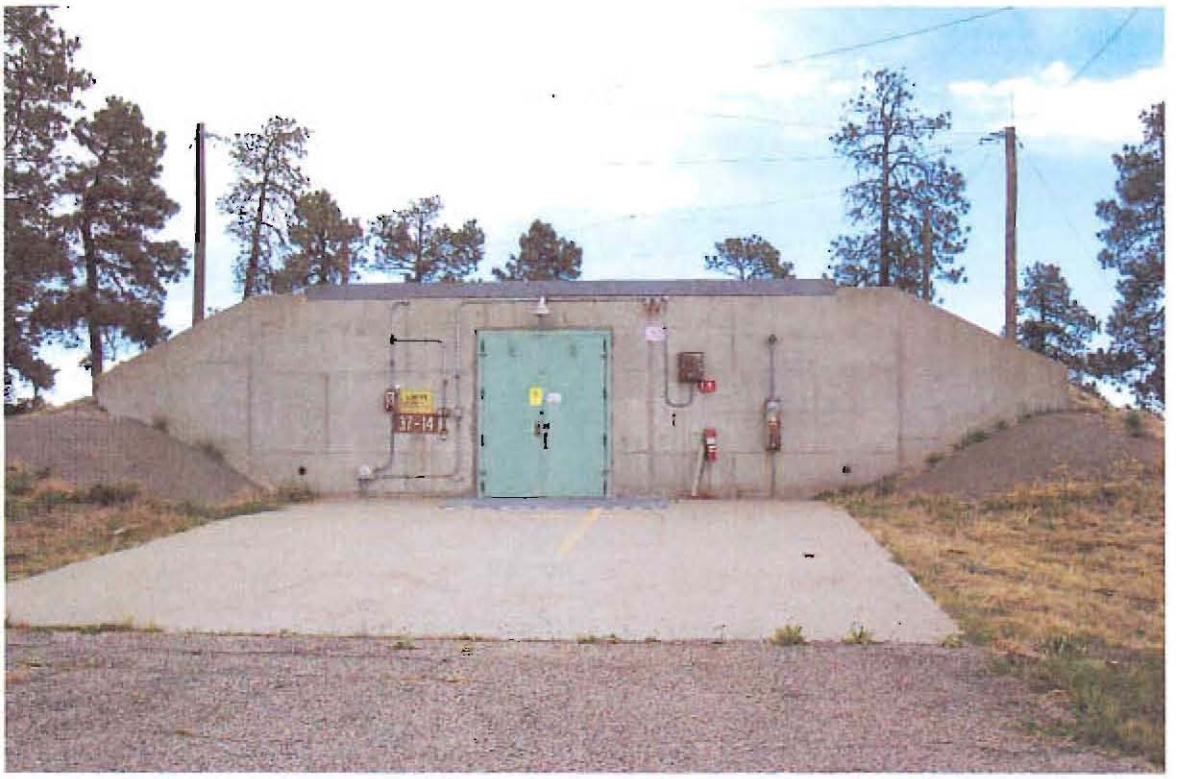
Architect/ Builder Black & Veatch Consulting Engineers

Alterations

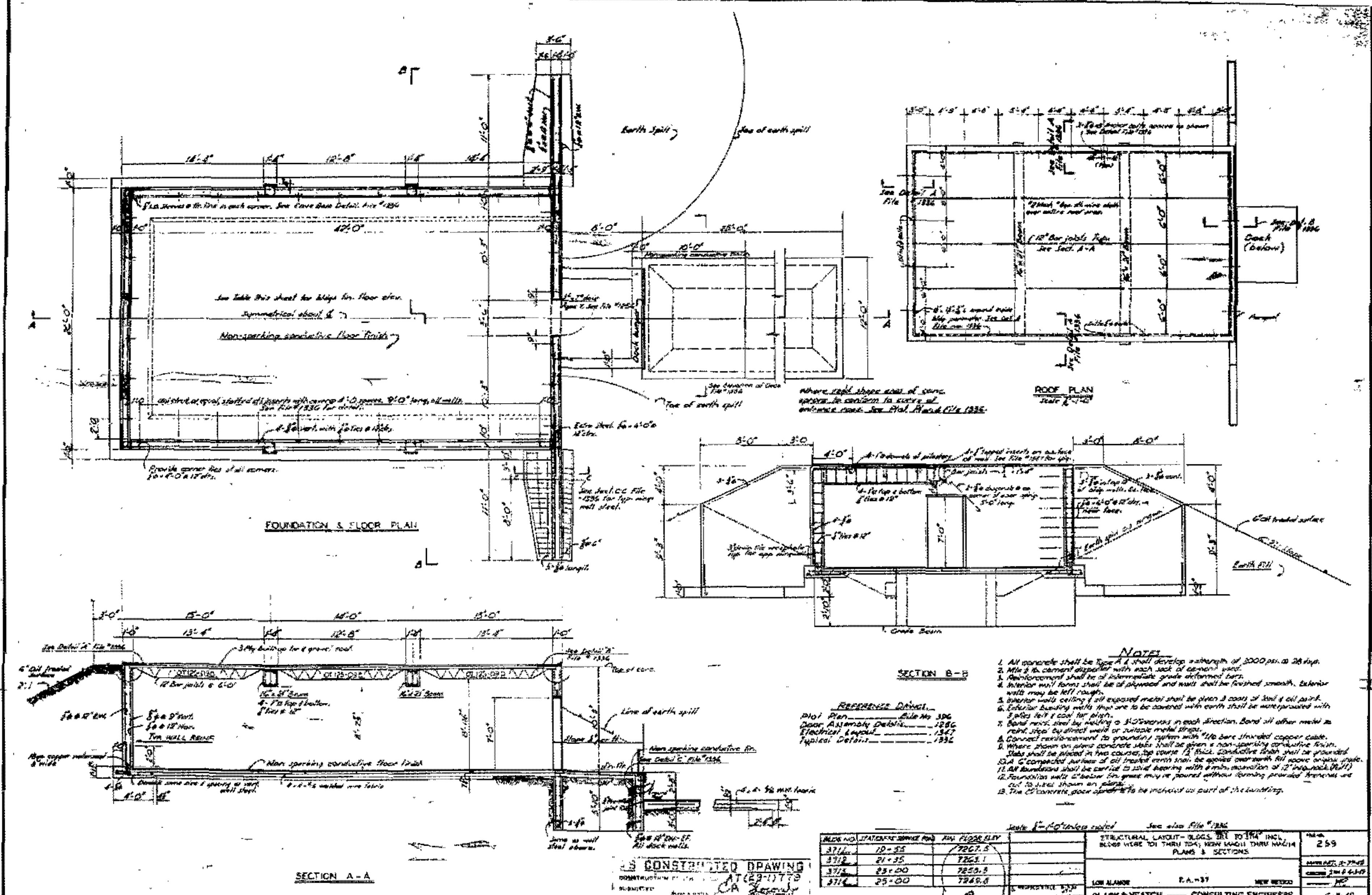
List of Drawings (Cntrl + Enter for para break)

ENG-C 1800
Sheet 8 of 37
Structural Layout - Bldgs No. 3711 to 3714 (MAC-11 thru MAC-14), [TA-37-11 thru TA-37-14]
Plans & Sections
June 3, 1949

ENG-R 3089
TA-37 Bldg. MAC-14, [TA-37-14]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984



TA-37-14 Southwest Elevation



NOTES

1. All concrete shall be Type A & shall develop a strength of 3000 psi. @ 28 days.
2. Mix ½ lb. cement dispersal with each sack of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Interior wall forms shall be of plywood and walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls ceiling & all exposed metal shall be given 3 coats of lead & oil paint.
6. Exterior building walls that are to be covered with earth shall be waterproofed with 3 plies felt & coal tar pitch.
7. 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.
8. Connect reinforcement to grounding system with #1/0 bare stranded copper cable.
9. Where shown on plans concrete slabs shall be given a non-sparking conductive finish. Slabs shall be placed in two courses, top course 1½" thick. Conductive finish shall be grounded.
10. A 6" compacted surface of oil treated earth shall be applied over earth fill above original grade.
11. All foundations shall be carried to solid bearing with a min. excavation of 12" into rock (tuff).
12. Foundation walls 6" below fin. grade may be poured without forming provided trenches are cut to lines shown on plans.
13. The 6" concrete apron [illegible] to be included as part of the building.

Scale 1/8"=1'-0" unless noted   See also File #1336

REFERENCE DRWGS.

Plot Plan .... File No. 306
Door Assembly Details 1286
Electrical Layout 1347
Typical Details 1336

BLDG. NO.	STATION OF SERVICE ROAD	FIN. FLOOR ELEV.
3711	19+55	7267.5
3712	21+35	7263.1
3713	25+00	7255.3
3714	25+00	7249.8

AS CONSTRUCTED DRAWING
AT(29-1)779
CA

STRUCTURAL LAYOUT - BLDGS. 3711 TO 3714 INCL.
BLDGS WERE 701 THRU 704; NOW MAG-11 THRU MAG-14
PLANS & SECTIONS

LOS ALAMOS   P.A.-37   NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

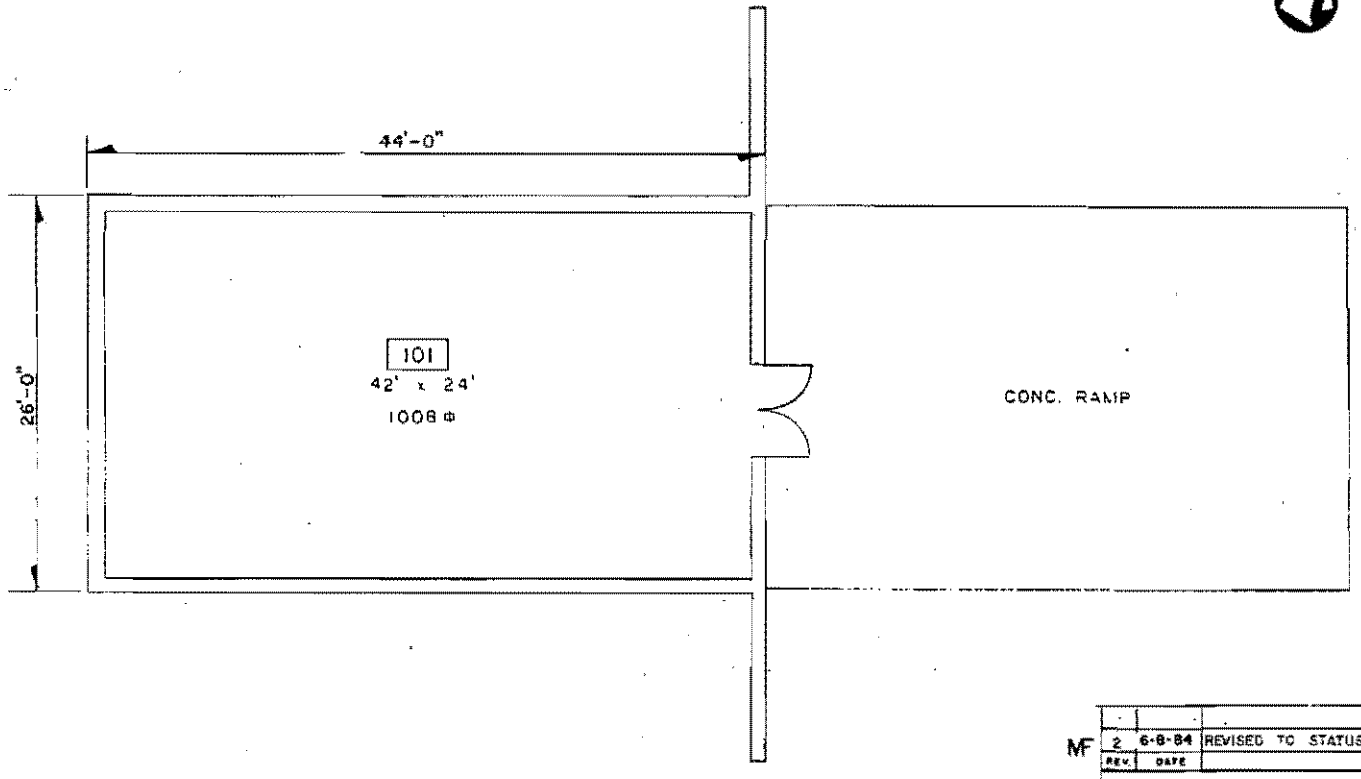
259
6-3-49
8   37

LAB JOB 186

L.A.S.L. DWG. NO. ENG-C-1800

SFA-EF-1/82

NO.	DATE	REVISION	BY	CHKD	GRP LDR	ENG D. O.
1	8-22-67	REVISED TO STATUS OF 8-21-67	J S	JAS		



0 5 10 15
1/8"=1'-0"
GRAPHIC SCALE

TOTAL SQ. FT. 1008

REV.	DATE	REVISION	BY	CHKD.	APP.
2	6-8-84	REVISED TO STATUS OF 6-8-84	HBN		

MF

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

FACILITIES ENGINEERING DIVISION

MAGAZINE

FLOOR PLAN

BLDG. MAC-14 TA-37

REC. CLASSIFICATION
CLASS. 11
REVIEWER
DATE 6-11-84

SUBMITTED
RECOMMENDED
APPROVED

DRAWN BREMER
CHECKED HBN
DATE 8-20-64
SHEET NO. 1 OF 1
DRAWING NO. ENG-R 3089

7/11/84

K+E ALBUQUERQUE LA 0805

LANL TA- Building # 37-0015

Camera PN #984242

Frame #s DCP_0248

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 380915 northing 3966105 zone 13

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

Current Use/ Function Vacant Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-14 and TA-37-16 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

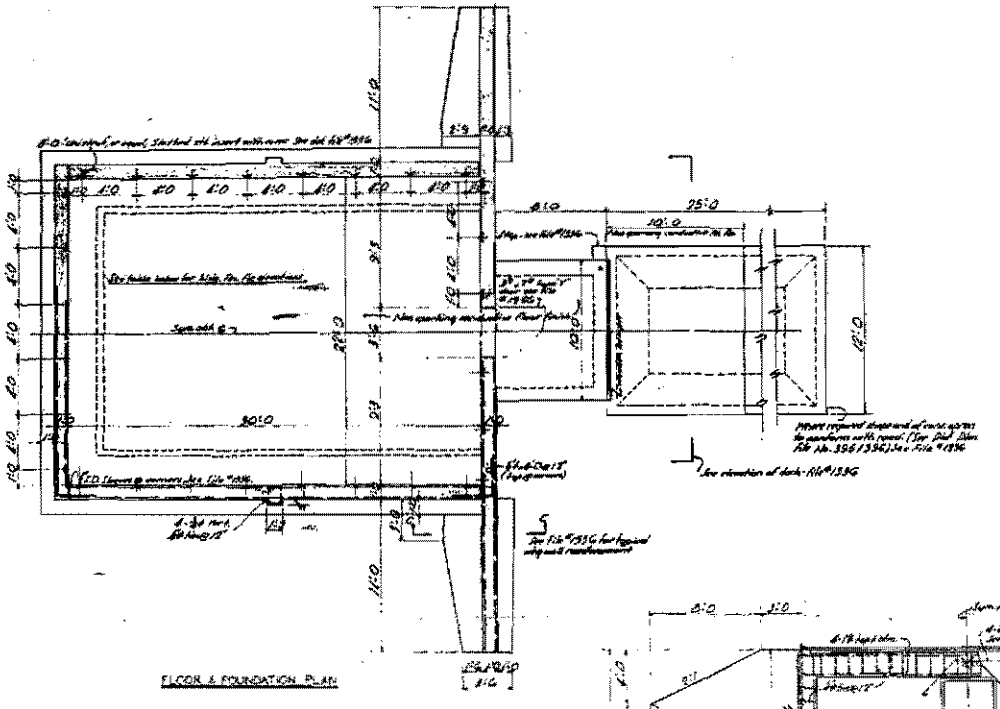
Alterations

List of Drawings (Cntrl + Enter for para break)

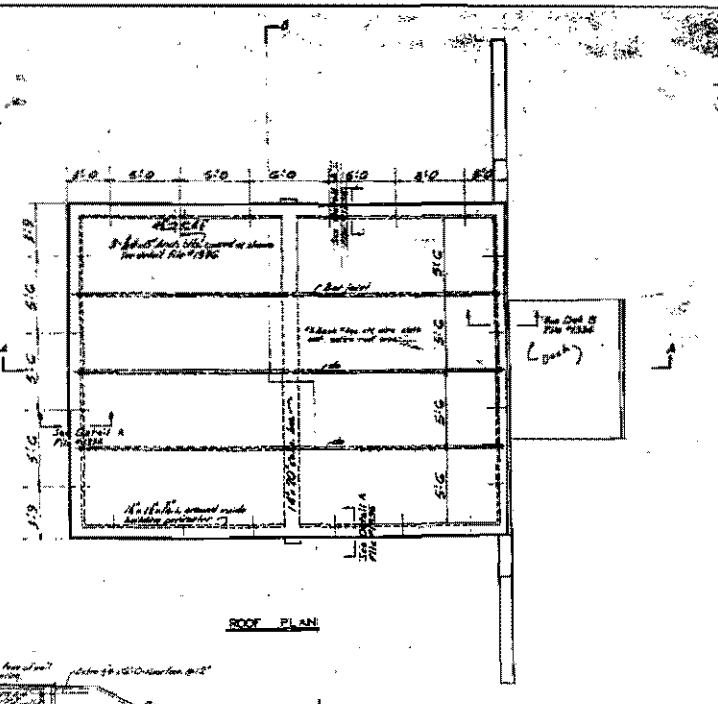
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3090
TA-37 Bldg. MAC-15, [TA-37-15]
Floor Plan
August 20, 1964

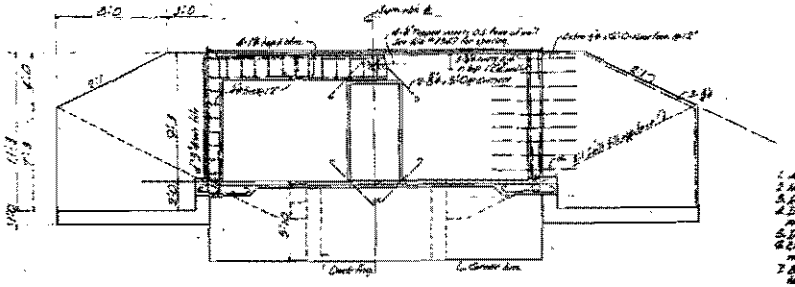
TA-37-15 Southwest Elevation



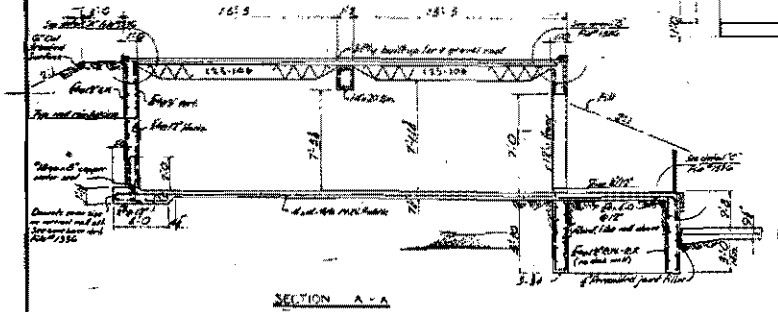
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be mixed to a slump of 4" and develop a strength of 3000 p.s.i. at 28 days.
2. 140 # lb. cement is "one" unit each of vertical panel.
3. Reinforcement shall be symmetrically placed unless noted.
4. Exterior wall forms shall be plywood, & wall shall be finished smooth. Exterior walls may be left rough.
5. Exterior walls, ceiling & all exposed corners shall be given 3 coats of Hunt # oil paint.
6. Exterior bldg. wall that are to be covered with earth shall be waterproofed with 3 plies felt & mop hot pitch.
7. Bond back fill by working 2'-0 intervals in each direction. Bond all other areas to wall fill by direct mass or earthwork vertical strips.
8. Expansion joints to be premolded asphalt joint as shown on plans.
9. Reinforcement supports, except slab shall be placed to concrete surface finish. Slabs shall be placed on fine concrete top course of block. Contractor to check & grade.
10. A 6" compacted surface of soil treated earth shall be applied over earth fill slopes as directed.
11. All foundations shall be carried to solid bearing with a min. embedment of 12" into rock (hard).
12. Foundations under 6" brick grade may be poured without footing provided trenches are cut to true dimensions.
13. The 12" cover, above section 12 to be included as part of the bldg.

Symbol	Station and Elevation	Top Floor Elevation
371B	21+94.0	7775.9
371C	24+27.0	7776.5
371A	26+76.0	7765.5
371A	27+73.0	7776.41
371B	28+24.4	7753.9
371B	28+95.5	7770.2
371	29+68.5	7781.7
371A	29+93.5	7784.4
371A	30+68.5	7792.5
371A	31+43.5	7796.6
371A	32+18.5	7797.6
371A	32+93.5	7795.2
371A	33+68.5	7791.0

Detail Drawings

	File No. 395 & 396
Plot Plans	1356
Door Access det.	1347
Steel Equipment	1336
Pipe Details	

AS CONSTRUCTED DRAWING
AC(28-07)79

Scale 1/4"=1'0 Scale File #1336

STRUCTURAL LAYOUT - BLOCKS #715 & #716 INC. BLDGS #447-09 THRU #451-09 AND #450-18 THRU #460-18
PLANS & SECTIONS

File No. 256

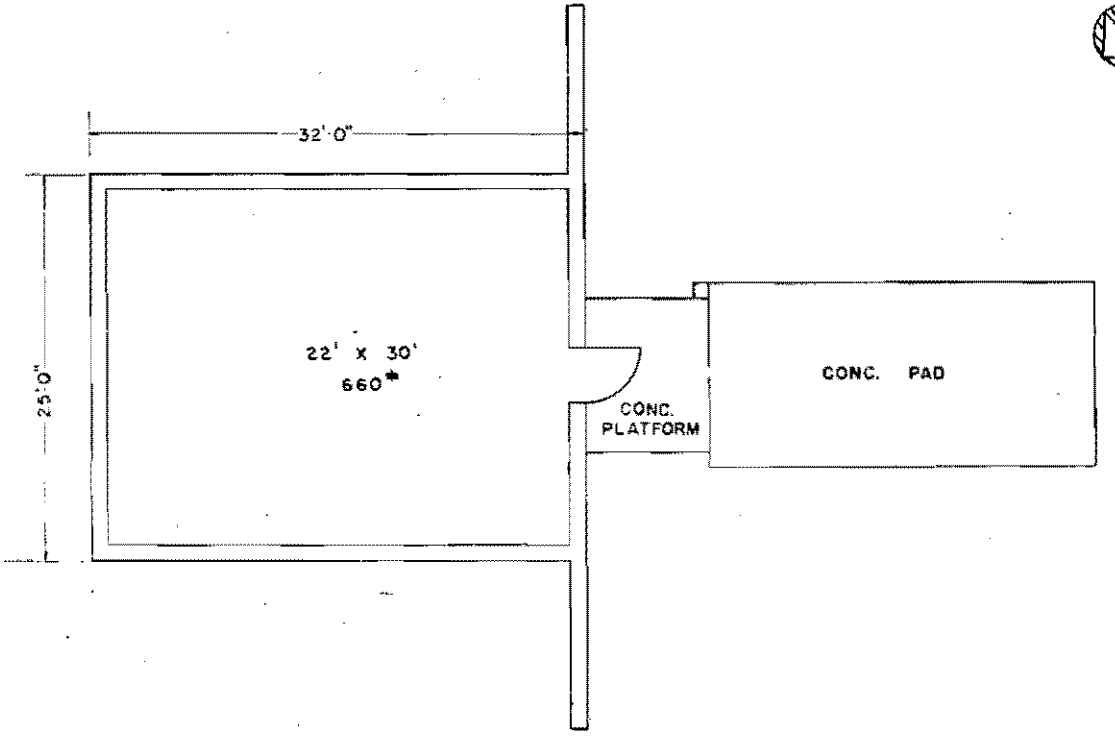
LOS ALAMOS N.M. - 37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

8-3-49

Sheet 9 of 57

LAB JOB 186 L.A.S.L.DWG.NO.ENG-C 1801 SFA-EF-1/3.2



TOTAL SQ. FT 660

LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. MAC-15 TA-37	
APPROVALS: ENG. GROUP: 3 JEC DIVISION: ENG. DEPT. OFFICE:	DESIGN: DESIGNER: BREMER PROJ. ENG. J. L. Ezis	DATE 8/20/64 SHEET 1 OF 1	SCALE 1/8" = 1'-0" SKETCH NO. ENG.- R 3090

INFO. SHOWN CURRENT AS OF 8/5/64 B. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0016

Camera PN #984242

Frame #s DCP_0249 & DCP_2291

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 380963 northing 3966056 zone 13

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

Current Use/ Function Vacant Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-15 and TA-37-17 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

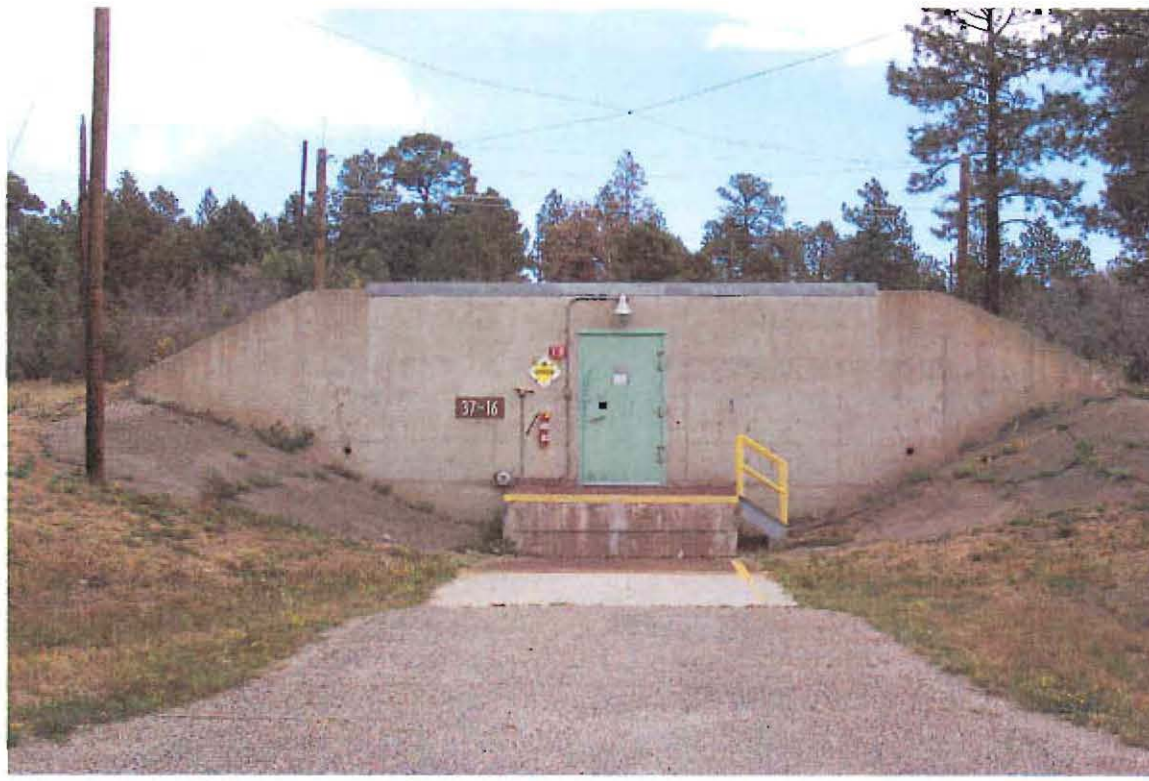
Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

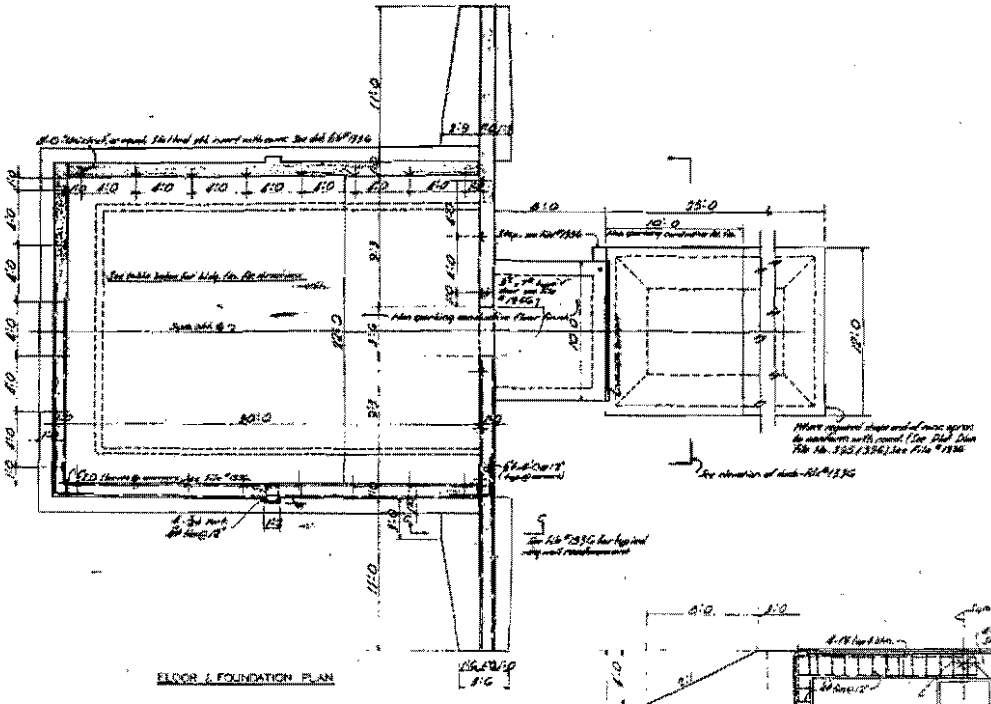
List of Drawings (Cntrl + Enter for para break)

ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

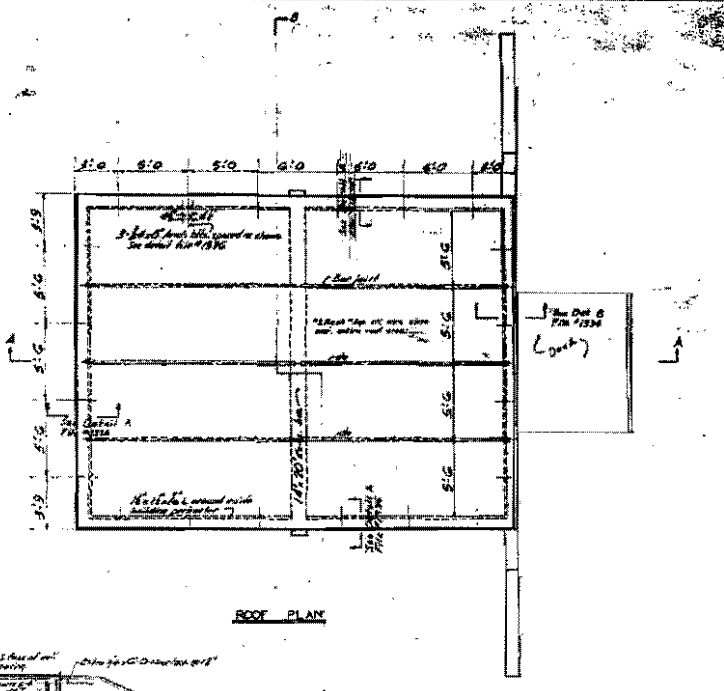
ENG-R 3091
TA-37 Bldg. MAC-16, [TA-37-16]
Floor Plan
August 20, 1964



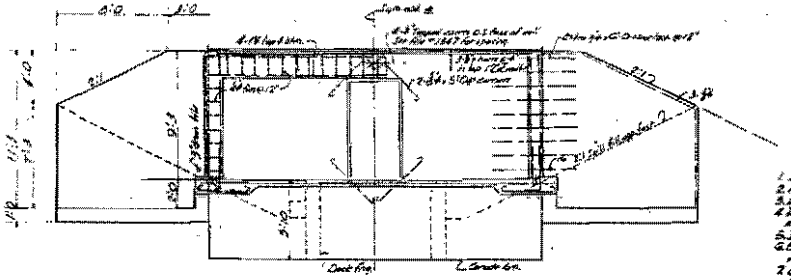
TA-37-16 Southwest Elevation



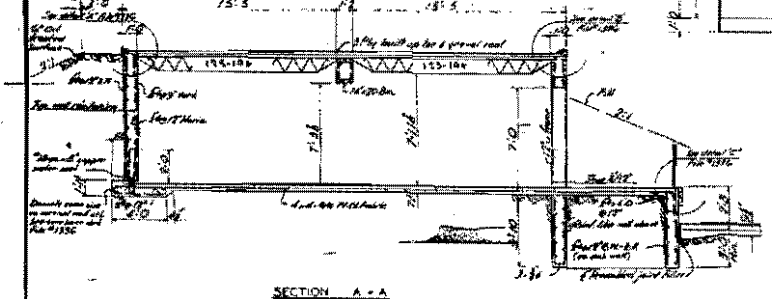
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be type A & shall develop a strength of 3000 p.s.i. at 28 days.
2. Where slab amount of "apron" walls apart, back of apron cured.
3. Concrete amount shall be given a smooth trowel finish.
4. Exterior wall forms shall be plywood, & walls shall be finished smooth. Interior walls may be left rough.
5. Exterior walls, except at off amount areas shall be given 3 coats of best & oil paint.
6. Exterior slabs, and that are to be covered with earth shall be waterproofed with 3 ply felt & mail tar pitch.
7. Sand back fill by machine 2'-0 intervals in each direction. Sand to fill other areas to be filled by plows & worked on intervals of not more than 12" lifts.
8. Concrete shall be proportioned by system with 1" slump & intended support walls.
9. Where shown on plans, concrete slab shall be given a non-slip surface under floor finish. Slabs shall be placed in one operation by owner if Work. Construction joints shall be prevented.
10. A 6" compacted surface of soil beneath earth shall be applied over earth fill about critical areas.
11. All foundations shall be carried to solid bearing with a min. penetration of 18" into rock (Ref.)
12. Foundation walls & below finish grade may be poured without forming provided trenches are cut to sizes shown on plans.
13. The 25' conc. clock system is to be included as part of the bldg.

Bldg. No.	Center Line	Elevation
371E	121+35.0	7273.9
371G	124+27.0	7266.6
371J	125+76.0	7263.5
371K	129+23.0	7264.1
371M	131+76.5	7259.9
371N	132+53.5	7257.2
371L	Not Used	7249.7
371P	134+83.5	7258.4
371Q	[illegible]	7262.1
371R	137+36.5	7259.6
371S	138+[illegible]	7258.2
371A	140+15.0	7251.0

Contract Drawings

Plot Plans	File No. 394 & 396
Door Anchors plot	1946
Steel layout	1347
Tram Corbels	1956

AS CONSTRUCTED DRAWINGS

Scale 1/4"=1'-0 Scale 1/8"=1'-0

STRUCTURAL LAYOUT - BLDGS. 371S, 371T & 371C INC. PLANS & SECTIONS

256

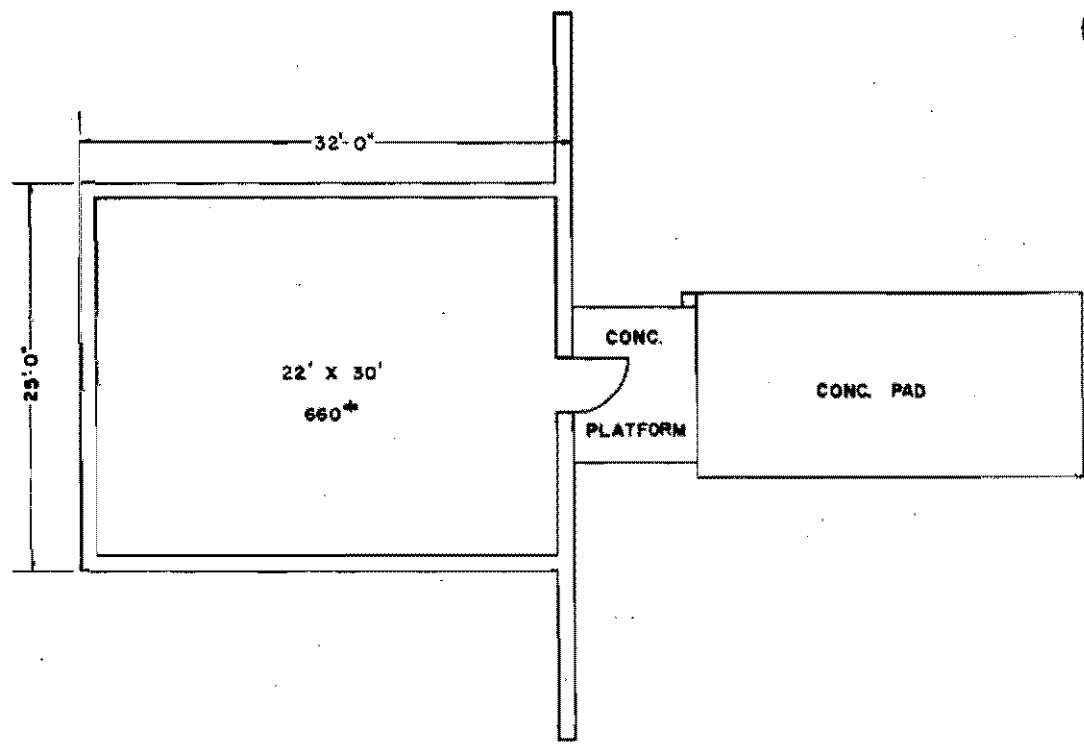
LOS ALAMOS TA-37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

6-3-49

9 37

LAB JOB 186 L.A.S.L.DWG.NO.ENG.C 1801 SFA-EF-7/9.2



LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. MAC-16	TA-37
APPROVALS ENG. GROUP: 3 SER DIVISION: ENG. DEPT. OFFICE:	DESIGN: DESIGNER: BREMER PROJ. ENG.:	DATE 8/20/64 SHEET 1 OF 1	SCALE 1/8" = 1'-0" SKETCH NO. ENG.-R 3091

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS OF 8/5/64 E. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0017

Camera PN #984242

Frame #s DCP-0250 & DCP_2291

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381015 northing 3966009 zone 13

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

Current Use/ Function Vacant Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-16 and TA-37-18 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

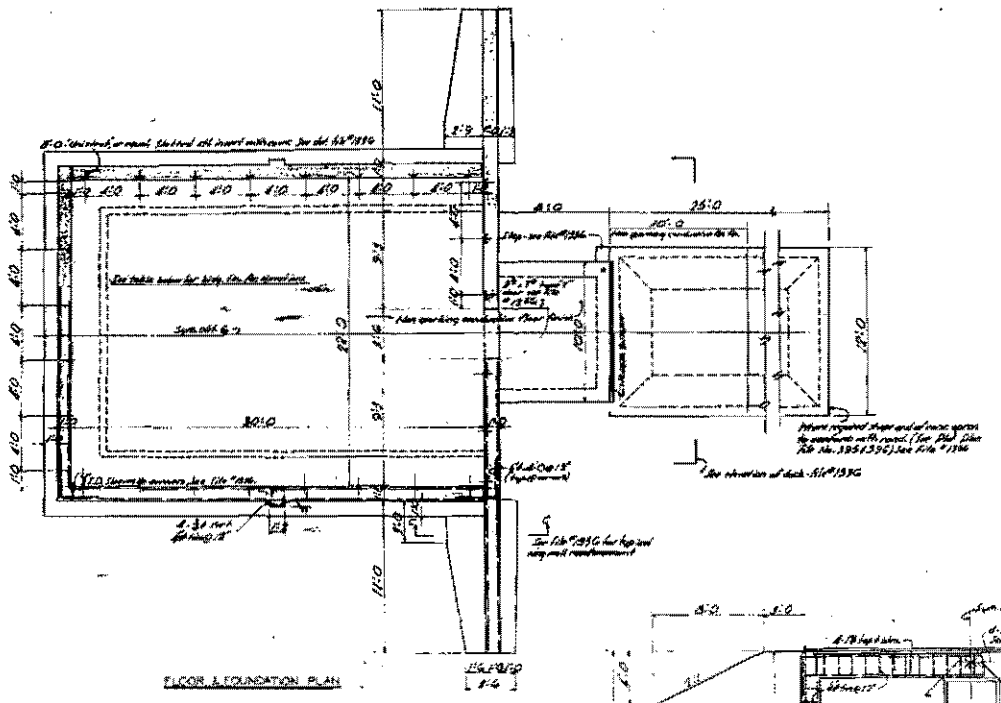
Alterations

List of Drawings (Cntrl + Enter for para break)

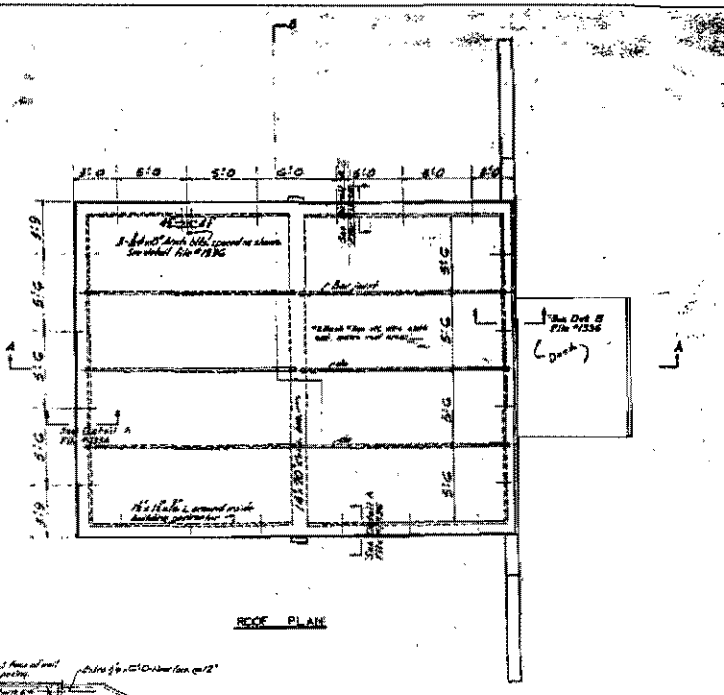
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3092
TA-37 Bldg. MAC-17, [TA-37-17]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984

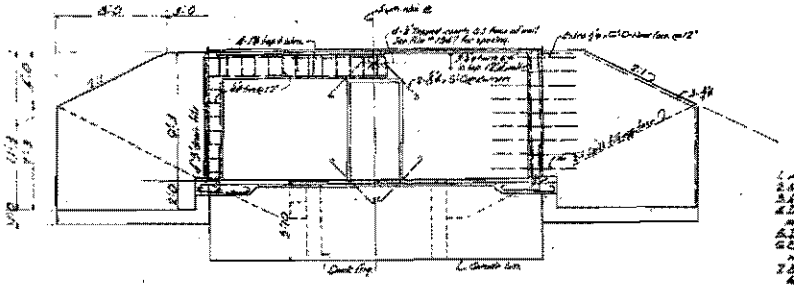
TA-37-17 Southwest Elevation



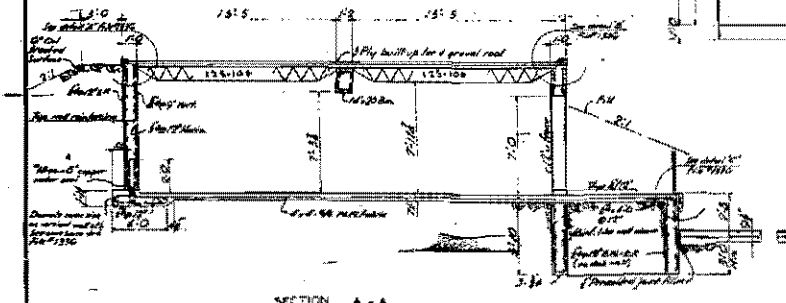
FLOOR & FOUNDATION PLAN



ROOF PLAN

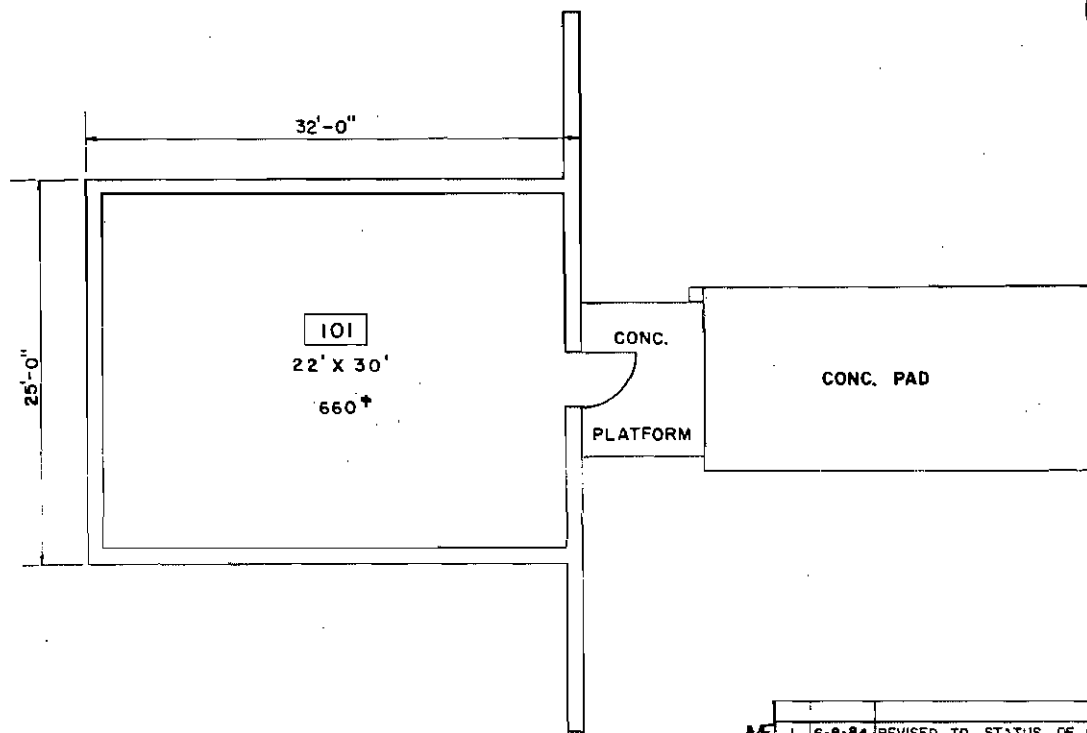


SECTION B - B



SECTION A - A

Bldg. No.	From or near	To or near
371G	121+95.0	717.9
372G	124+27.0	726.4
373G	126+78.0	736.8
374G	129+28.0	746.4
375G	131+71.0	755.9
376G	134+31.5	765.0
377G	136+78.5	774.7
378G	139+28.5	784.0
379G	141+75.5	793.5
380G	144+25.5	803.0
381G	146+75.5	812.7
382G	149+26.0	822.2
383G	151+76.0	831.7
384G	154+26.0	841.2
385G	156+76.0	850.7
386G	159+26.0	860.2
387G	161+76.0



1/8"=1'-0"

0 5 10 15

GRAPHIC SCALE

REV	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HBN		

UNIVERSITY OF CALIFORNIA

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

MAGAZINE

FLOOR PLAN

BLDG. MAC-17 TA-37

SEC. CLASSIFICATION

CLASS. U

REVIEWER

DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo	Dan Pugh	W. T. Ellison

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
BREMER	H.E.N.	8-20-64	1 OF 1	ENG-R 3092

6/11/84

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS

LANL TA- Building # 37-0018

Camera PN #984242

Frame #s DCP_0251

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381079 northing 3965981 zone 13

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

Current Use/ Function Vacant Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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: TA-37-1 through TA-37-17 and TA-37-19 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

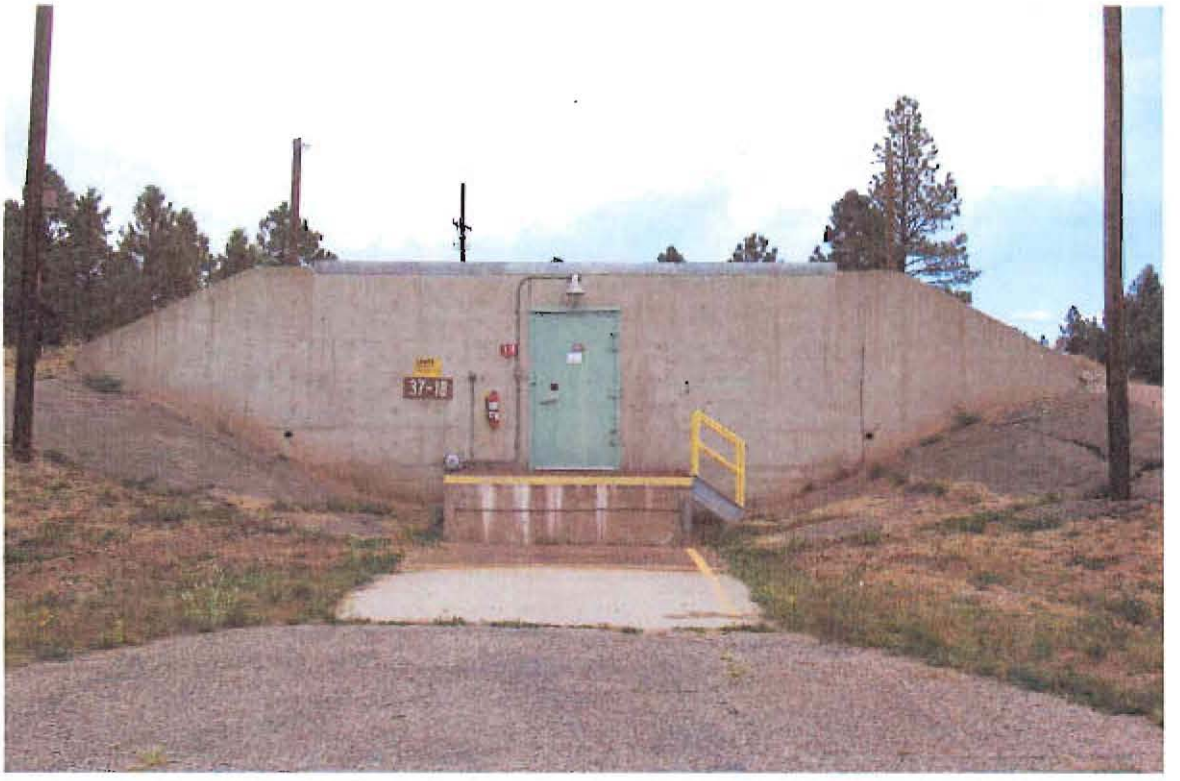
Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

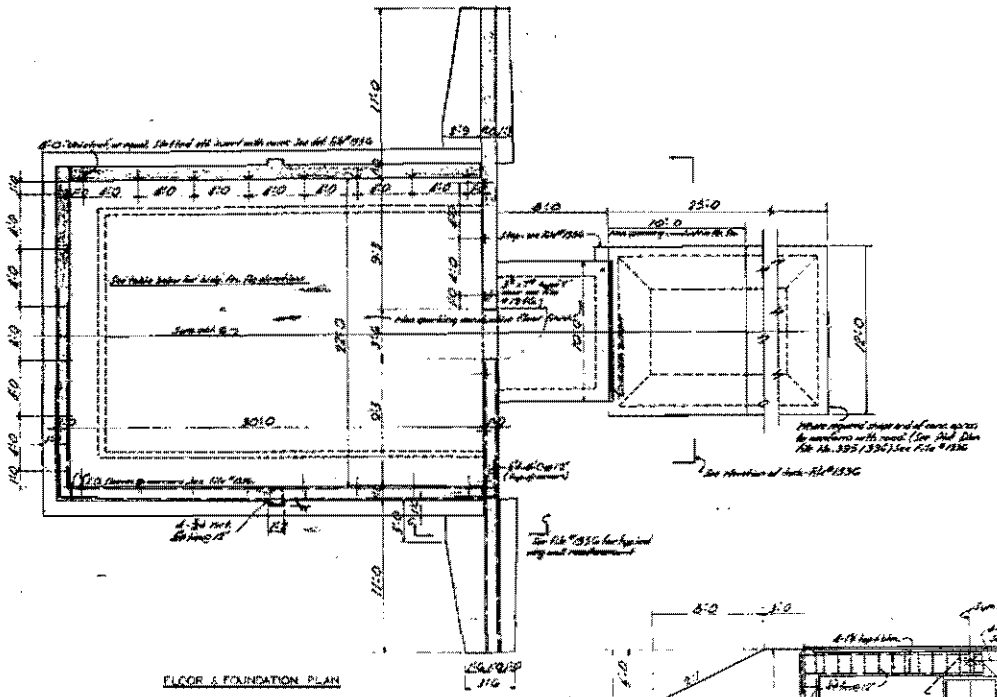
List of Drawings (Cntrl + Enter for para break)

ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

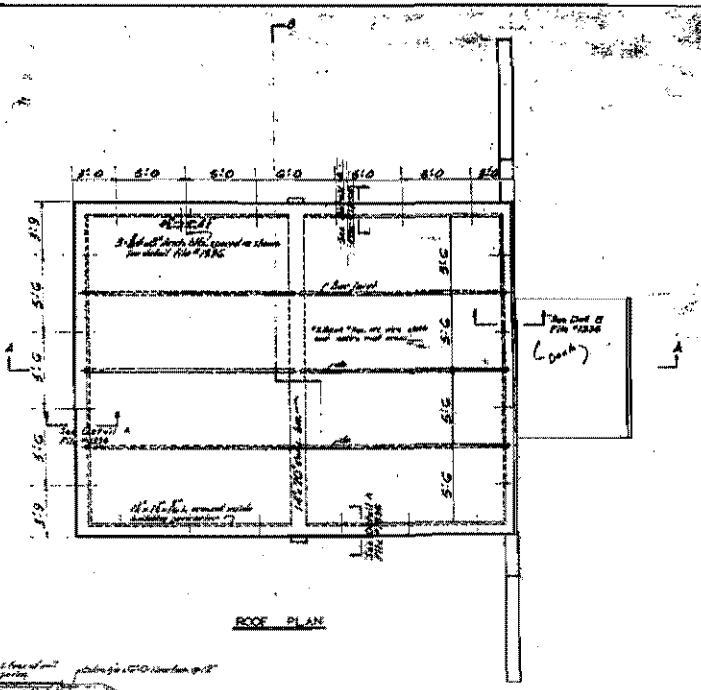
ENG-R 3093
TA-37 Bldg. MAC-18, [TA-37-18]
Floor Plan
August 20, 1964



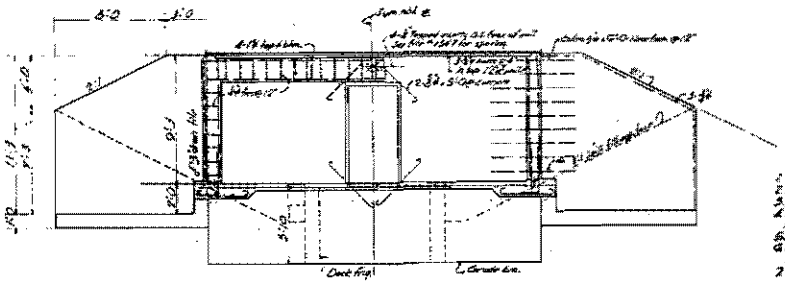
TA-37-18 South Southwest Elevation



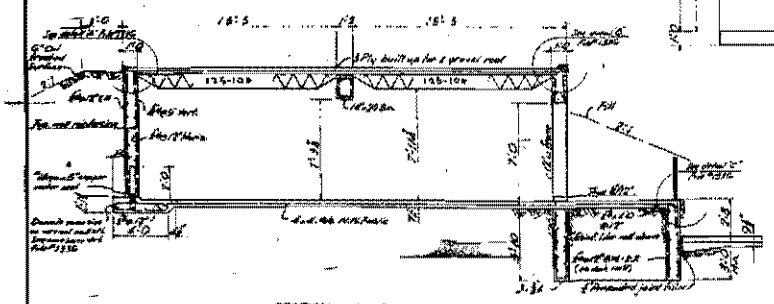
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be type A & shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mix & fix amount of water with each batch of cement used.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Exterior wall faces shall be plastered, & walls shall be finished smooth. Exterior walls may be left rough.
5. Exterior walls, enclosing all exposed steel shall be given 3 coats of lead & oil paint.
6. Exterior brick wall finishes to be smeared with earth shall be water proofed with 3 coats hot mop tar pitch.
7. Sand joint all by welding @ 8'-0" intervals in each direction. Bond all other joints as called for by detail or authorized verbal change.
8. Concrete walls to grounding system with #4 bare stranded copper cable.
9. All steel shapes on plans, exc. bars & steel angles over opening to be on floor level.
10. Slabs shall be placed in one operation, the center of which shall be grounded.
11. All foundations shall be carried to solid bearing with a min. cover of 12" into rock (hard).
12. Foundation walls & bearing brick work may be poured without forming provided trenches are cut to even alignment.
13. The 25" conc. check rail is to be included as part of the slab.

Bridge No.	Station and Normal Road	Top of Floor Elevation
3716	121+95.0	7775.9
3716A	124+27.0	7764.5
3717	126+78.0	7768.3
3718	129+28.0	7764.1
3719	131+71.5	7779.9
3720	134+23.5	7769.0
3721	136+75.5	7769.7
3722	139+28.0	7769.5
3723	141+78.0	7771.4
3724	144+28.0	7785.2
3725	146+78.0	7771.0

Plat Plans — Dept. Docs.
Gear Assembly — File No. 395 & 396
Elect. Layout — 1356
Typ. Details — 1347
— 1836

AS BUILT TRACED DRAWING
AT (28-1) 7779

Scale 1/4"=1'0 — See also File #1836

STRUCTURAL LAYOUT - BLOCK 3715 to 3725 INC.
PLANS & SECTIONS

File No. 256

LOS ALAMOS — TA-37 — NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

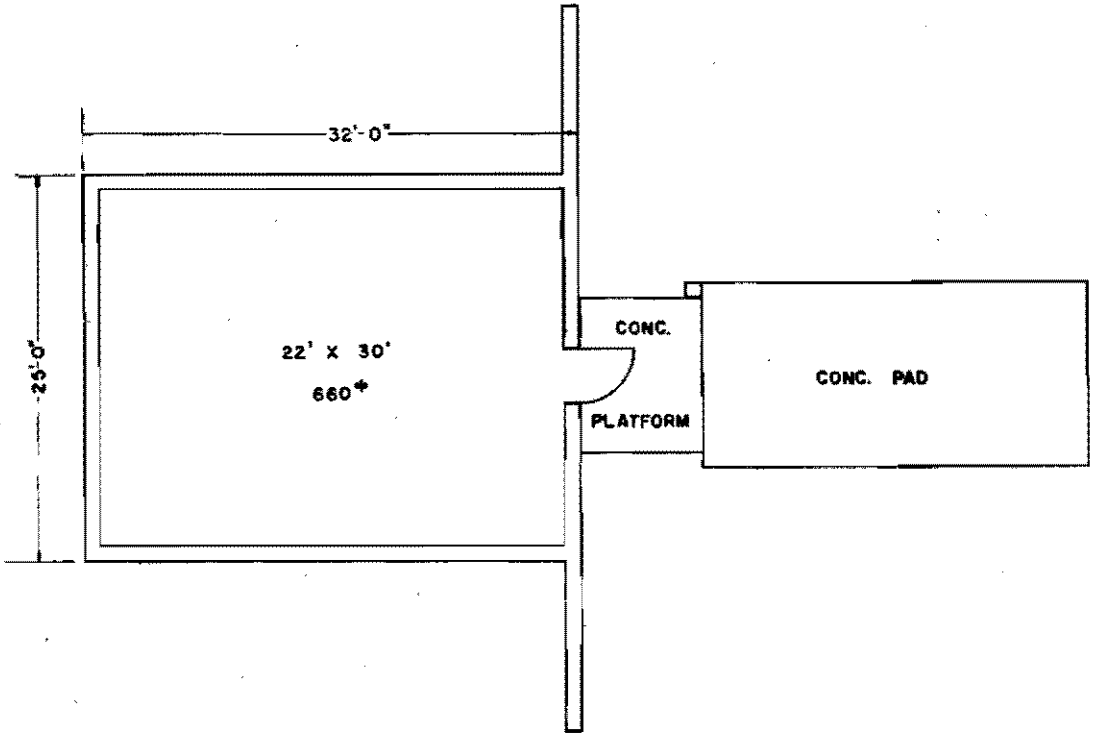
Date 8-5-43

Sheet 9 of 17

LAS 106 186

L.A.S.L. DWG. NO. ENG-C 1801

OFA-EF-



RECEIVED TO DATE

LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. MAC-18	TA-37
APPROVALS: ENG. GROUP: 3 SER DIVISION: ENG. DEPT. OFFICE: JB	DESIGN: DESIGNER: BREMER PROJ. ENG.: JA Sayer MB	DATE 8/20/64 SHEET 1 OF 1	SCALE 1/8" = 1'-0" SKETCH NO. ENG. - R3093

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS OF 8/5/64

S. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0019

Camera PN #984242

Frame #s DCP_0252 & DCP_2290

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381148 northing 3965968 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-18 and TA-37-20 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net

Architect/ Builder Black & Veatch Consulting Engineers

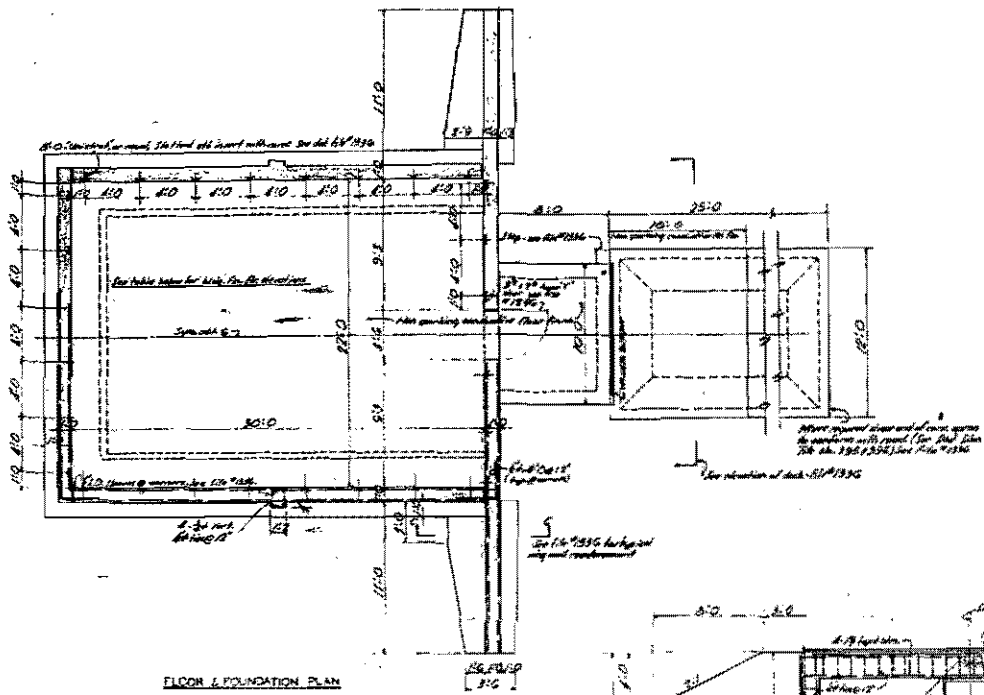
Alterations

List of Drawings (Cntrl + Enter for para break)

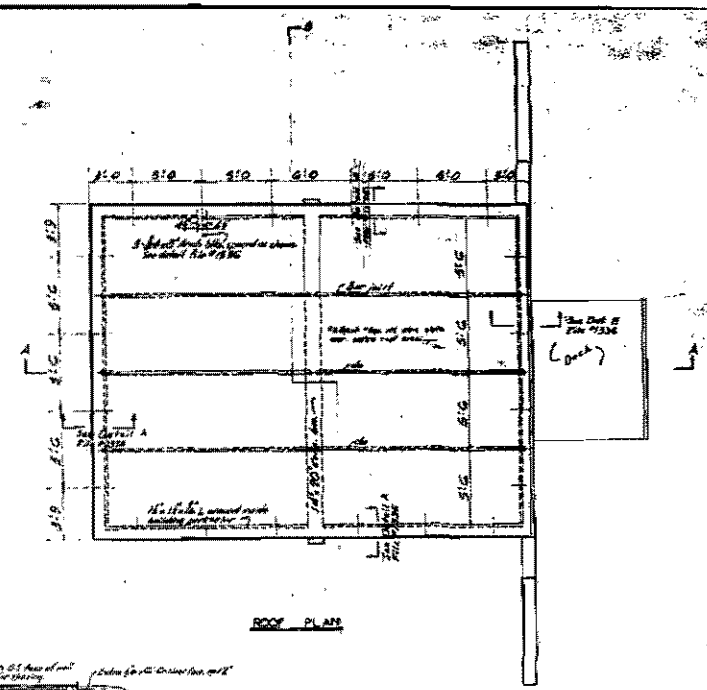
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3094
TA-37 Bldg. MAC-19, [TA-37-19]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984

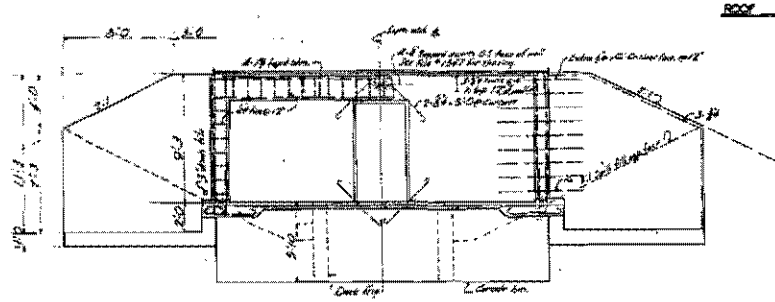
TA-37-19 South Elevation



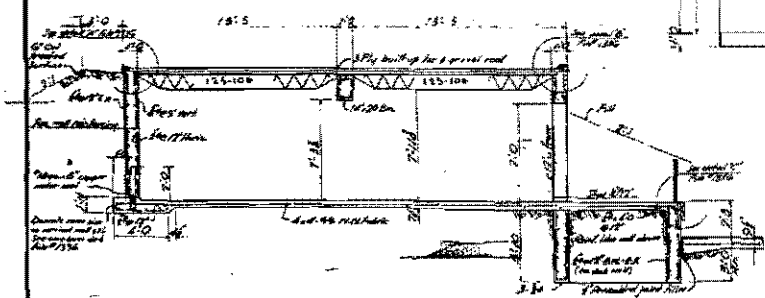
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be type A & shall develop a strength of 3000 p.s.i. @ 28 days.
2. Alls f.b. around all openings with earth back of cement used.
3. Reinforcement shall be intermediate grade deformed bars.
4. Exterior wall forms shall be plywood, & walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls, ceiling & all exposed metal shall be given 3 coats of lead & oil paint.
6. Exterior walls, wall that are to be covered with earth shall be waterproofed with 3 ply felt & hot tar finish.
7. Bond joist rft. by reinforcing @ 3'-0 intervals in each direction. Bond all other metal to wood rft. by direct weld or outside metal strap.
8. Concrete reinf. to grounding system with 3/4 bare stranded copper cable.
9. Where shown on plans, conc. slab shall be given a non sparking combination float finish. Slabs shall be placed in two courses, the curve is 1/4 thick. Contractor to coordinate.
10. A 6" compacted surface of all finished earth shall be applied over earth fill where original grade is 12" or more below finished grade.
11. All foundations shall be carried to solid bearing with a min. excavation of 12" into rock (hard).
12. Foundation walls & interior block grade may be poured without forming provided trenches are cut to exact shown on plans.
13. The 8" conc. block option is to be included as part of the bldg.

Bldg. No.	Station and Elevation	Top Floor Elevation
311a	181+95.0	7275.5
311b	178+77.0	7262.5
311c	176+75.0	7253.5
311d	173+11.0	7264.1
311e	171+71.5	7259.9
311f	170+31.5	7270.0
311g	168+98.5	7267.7
311h	167+63.5	7268.4
311i	166+26.0	7241.5
311k	165+86.5	7238.3
311l	165+44.0	7255.2
311m	167+75.0	7272.0

Section Drawings

	File No. 395 & 396
Plot Plans	1950
Floor Assembly	1947
Steel Erection	1946
Typ. Details	

AS CON. TAILORED DRAWING

AT 29-1779

Scale 1:10 Scale 1/16"=1'0"

STRUCTURAL LAYOUT - BLOCKS 311, 312 & 313 INC. FLOORS WORK SEE 396 & THRU 396-1 & THRU 396-1a PLANS & SECTIONS

File No. 256

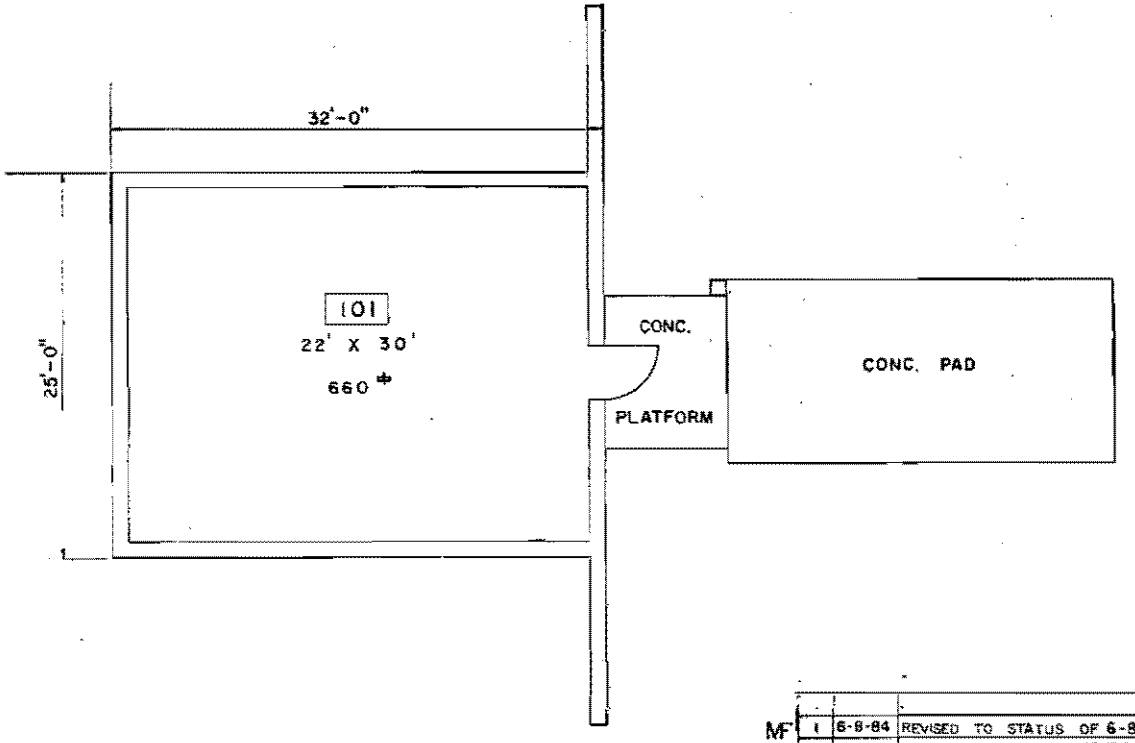
LOS ALAMOS TA-37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

6-5-49

Sheet 9 of 37

LAB JOB 186 L.A.S.L.DWG.NO.ENG-C 1801 SFA-EF-1/3



1/8"=1'-0"

0 5 10 15

GRAPHIC SCALE

REV.	DATE	REVISION	BY	CKD.	APR.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HEN		

UNIVERSITY OF CALIFORNIA

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

MAGAZINE

FLOOR PLAN

BLDG. MAC-19 TA-37

SEC. CLASSIFICATION: CLASS. U; REVIEWER; DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
G. Tracy		

DRAWN	DATE	SHEET NO.	DRAWING NO.
BREMER	8-20-64	1 OF 1	ENG-R 3094

CHECKED Hemble HEN

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS

LANL TA- Building # 37-0020

Camera PN #984242

Frame #s DCP_0253 & DCP_2289

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381215 northing 3965962 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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. TA-37-1 through TA-37-19 and TA-37-21 through TA-37-27.

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

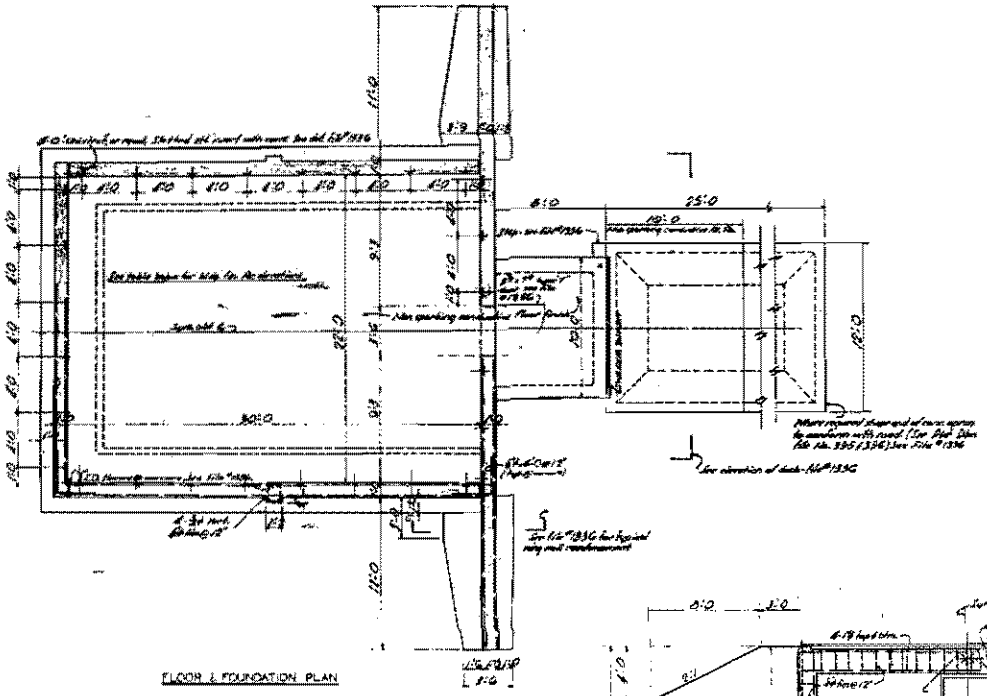
Alterations

List of Drawings (Cntrl + Enter for para break)

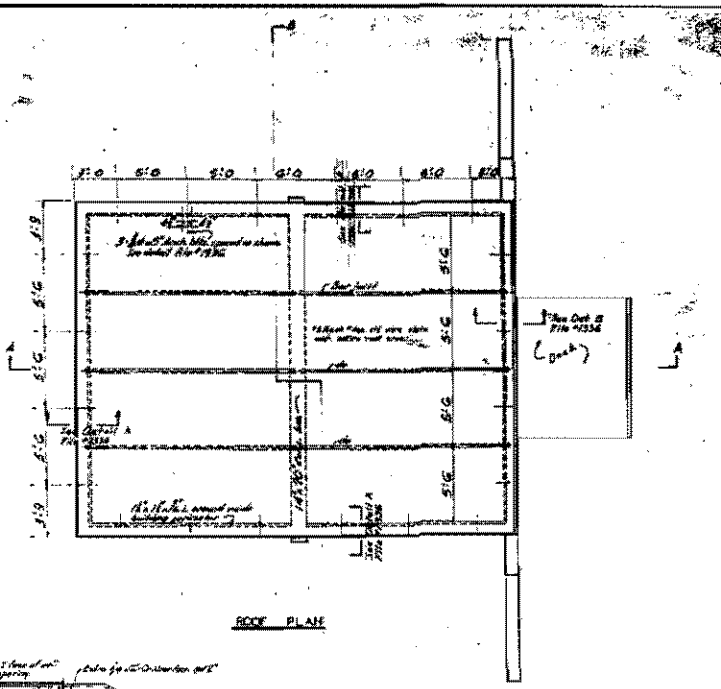
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3095
TA-37 Bldg. MAC-20, [TA-37-20]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984

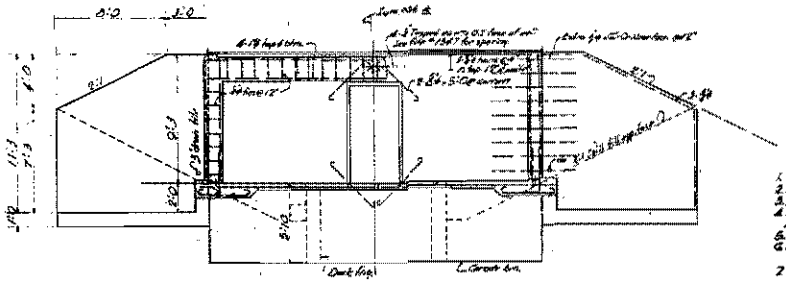
TA-37-20 South Elevation



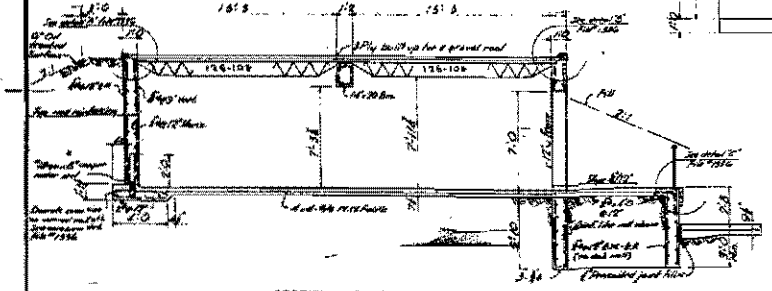
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

Elevation	Station (ground level)	Elev. Roadway
37½	22+ 95.0	7775.9
37⅝	124+ 27.0	7764.2
37 1/2	125+ 76.0	7760.3
37⅛	125+ 78.0	7754.1
37½	127+ 71.5	7759.9
37½	131+ 33.5	7760.0
37½	134+ 18.5	7768.7
37½	138+ 49.8	7756.8
37½	[illegible]	7742.5
37½	142+ 96.5	7713.2
37½	145+ 61.6	7715.2
37½	147+ 75.0	7721.9

Notes

1. All concrete shall be type A of class A strength of 3000 p.s.i. @ 28 days.
2. Min. 6" sq. around all openings with each end of all cement joints.
3. Reinforcement shall be adequately supported and secured.
4. Exterior wall forms shall be plywood, & walls shall be finished smooth. Interior walls may be left rough.
5. Exterior walls, ceilings & all exposed corners shall be given 3 coats of tar & oil paint.
6. Exterior slab, wall thickness to be covered with earth shall be reinforced with 3 bars each 4 ways per inch.
7. Bend bars ½ in. by resisting @ 30 intervals in each direction. Bend all other corners at 45° by direct reading on suitable corner straps.
8. Grooved joint in surrounding gutters with ¾" by ¼" bars at vertical expansion joints.
9. Where shown on plans, apply 3 lbs shall be given a non sparking consistency floor finish.
10. Stakes shall be placed in three courses, by course of Work. Contractor to shall be grounded.
11. All excavation and fill material for road leveling with a min. every foot of 17 mile rock (½ in).
12. Foundations with 3" to use finish grade may be poured without forming provided trenches are cut to exact shape as poured.
13. The 25 count check system is to be included as part of the bids.

Index Drawings

Block Plans	File No. 396 & 336
Drain Approach Slab	1396
Wheel Guard	1347
Type Details	1336

AS BUILT INITIALED OPENING

Scale 1/4"=1'0 — Scale File 1336

STRUCTURAL LAYOUT - BLDG. 3718 to 3736 INC. SHEET NO. 2 OF THREE SHEETS SHOWING PLANS & SECTIONS

256

LOS ALAMOS — TA-37 — NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

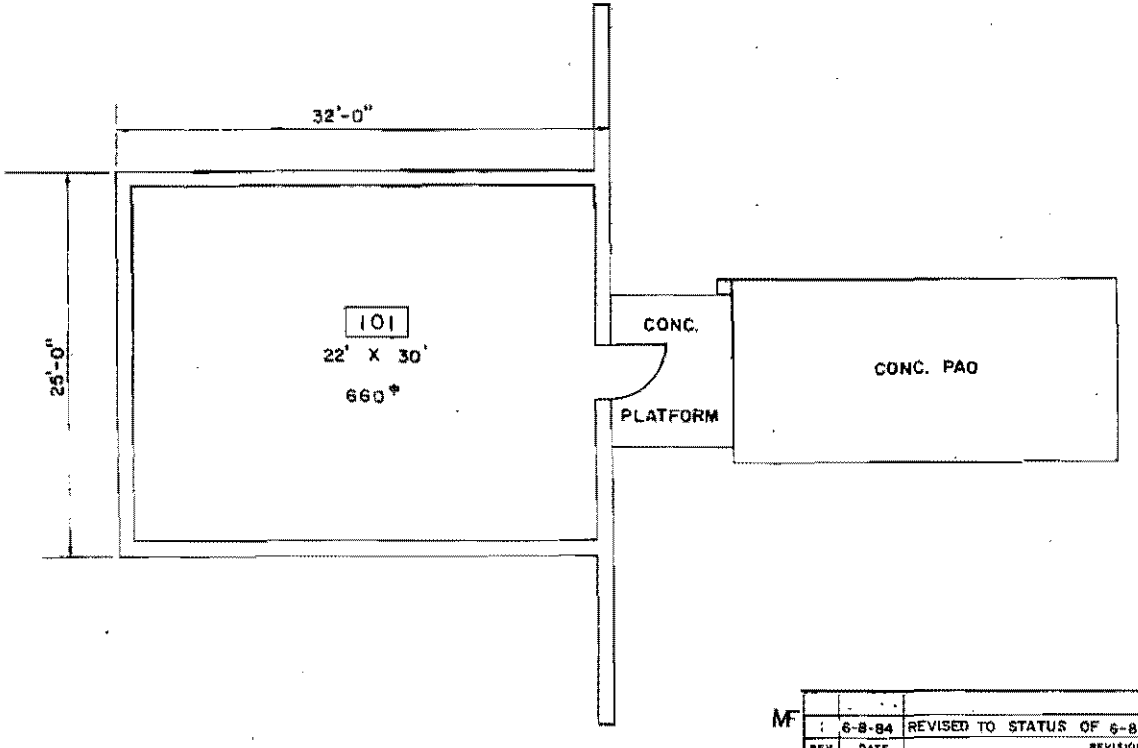
DATE 6-3-49

SHEET 9 OF 57

LAB JOB 186

L.A.S.L. DWG. NO. ENG-C 1601

SFA-EF-19.2



0 5 10 15
1/8"=1'-0"
GRAPHIC SCALE

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HBK	ST	DPA

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-20 TA-37

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E Trujillo	Dan Rupp	Carl F Gallup

DRAWN	DATE	SHEET NO.	DRAWING NO.
BREMER	8-20-64	1 OF 1	ENG-R 3095
CHECKED			

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS

7/11/84

LANL TA- Building # 37-0021

Camera PN #984242

Frame #s DCP_0254 & DCP_2289

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381283 northing 3965949 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-20 and TA-37-22 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

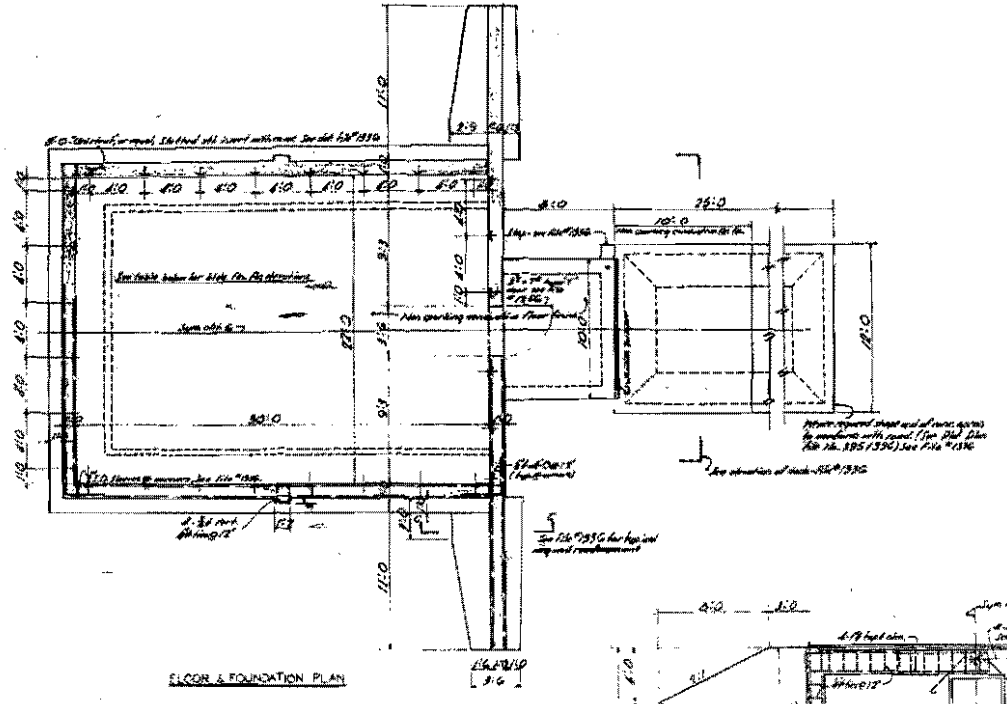
Alterations

List of Drawings (Cntrl + Enter for para break)

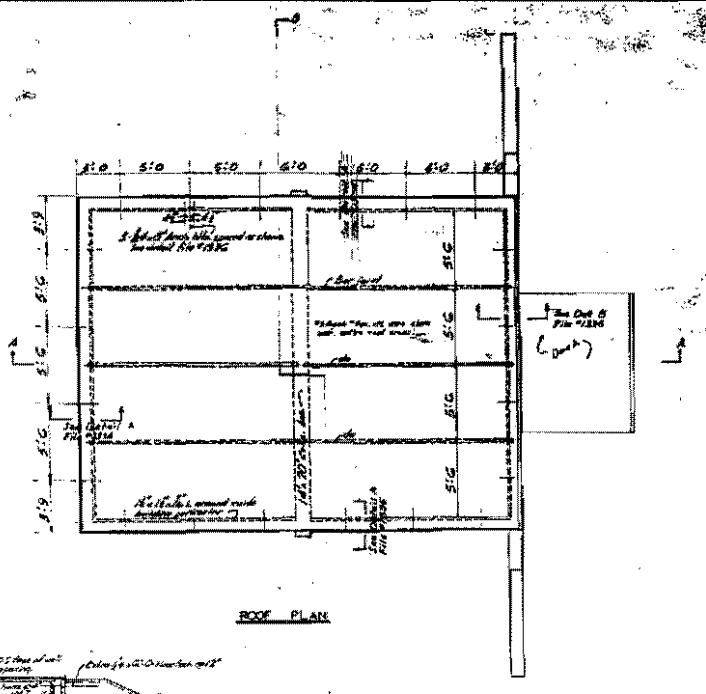
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3096
TA-37 Bldg. MAC-21, [TA-37-21]
Floor Plan
August 20, 1964
Revised to status of June 8, 1984

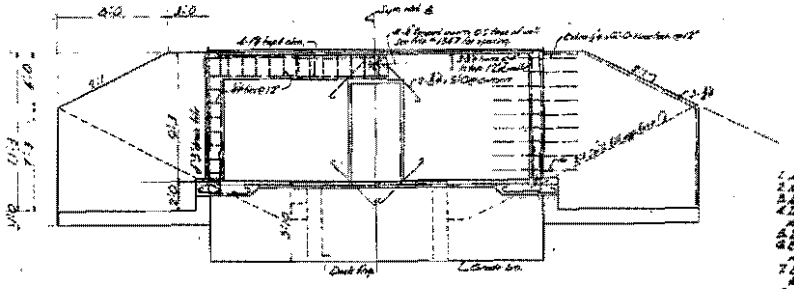
TA-37-21 South Elevation



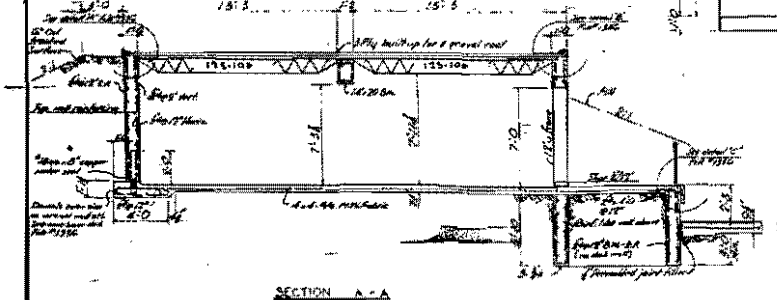
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be type A of sheet drawings - strength of 3000 p.s.i. @ 28 days.
2. Mix of ft. cement disperser mortar work coat of cement coat.
3. Reinforcement shall be accurately positioned before.
4. Interior wall forms shall be plywood, & walls shall be finished smooth. Exterior walls may be left rough.
5. Exterior walls, ceiling & soffit exposed metal shall be given 1 coat of best & all paint.
6. Exterior bldg. wall blind are to be covered with earth shall be waterproofed with 3 plies felt & mastic finish.
7. Bevel finish all by rubbing 0.5" O. intervals in each direction. Bevel all other metal to weld fill by direct weld or surface coating / shop.
8. Control joint, to prevent any shrinkage with 1/4 bar expanded copper tube.
9. Where shown on plans, areas shall be given a concrete sanding hardener floor finish.
10. A 6" compacted surface of all trenched earth shall be applied over earth fill above natural grade.
11. All foundations shall be carried to solid bearing with a min. excavation of 12" under rock (Typ.)
12. Foundation walls 6" below finish grade may be poured without forming provided trenches are cut to true dimensions.
13. The 24" conc. block panels to be furnished as part of the bldg.

Bldg. No.	Elevation at Service Level	Floor Elevation
371a	721'-5.0	721'-5.0
371b	724'-7.0	724'-5.5
371c	720'-7.0	720'-5.5
371d	720'-11.0	720'-9.5
371e	721'-7.5	721'-5.0
371f	721'-5.5	721'-5.0
371g	724'-0.5	724'-5.0
371h	724'-0.5	724'-5.0
371i	724'-0.5	724'-5.0
371j	724'-0.5	724'-5.0
371k	724'-0.5	724'-5.0
371l	724'-0.5	724'-5.0
371m	724'-0.5	724'-5.0

Sheet Contents	File No. 395 & 396
Floor Plans	1256
Door Access. det.	1847
Steel Lintels	1848
Typ. Details	

AS BUILT - BILLED DRAWING

Scale 1/4"=1'-0 Scale File #1256

ARCHITECTURAL LAYOUT - BLOCK 371 NORTH
PLANS & SECTIONS

File No. 256

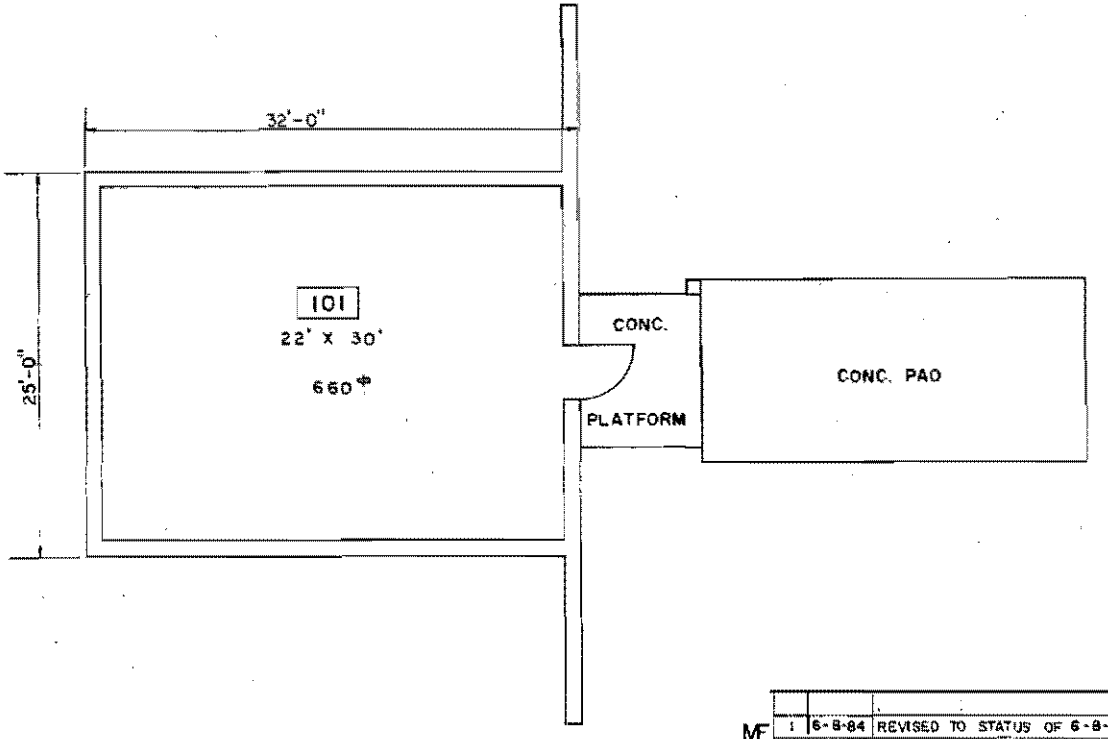
LOS ALAMOS TA - 37 NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

Date 6-3-49

Sheet 9 of 37

LAB DOB 186 L.A.S.L.DWG.NO.ENG-C 1601 SFA-EF-49.2



0 5 10 15
1/8"=1'-0"
GRAPHIC SCALE

REV.	DATE	REVISION	BY	CKD.	APP.
1	6-8-84	REVISED TO STATUS OF 6-8-84	HBN		DR

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

FACILITIES ENGINEERING DIVISION

MAGAZINE

FLOOR PLAN

BLDG. MAC-21 TA-37

SEC. CLASSIFICATION
CLASS. U
REVIEWER Freduel
DATE 6-11-84

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo		W. T. Thornton

DRAWN BREMER
CHECKED REN
DATE 8-20-84
SHEET NO. 1 OF 1
DRAWING NO. ENG-R3096

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT A

LANL TA- Building # 37-0022

Camera PN #984242

Frame #s DCP_0255 & DCP_2288

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381350 northing 3965940 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-21 and TA-37-23 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net

Architect/ Builder Black & Veatch Consulting Engineers

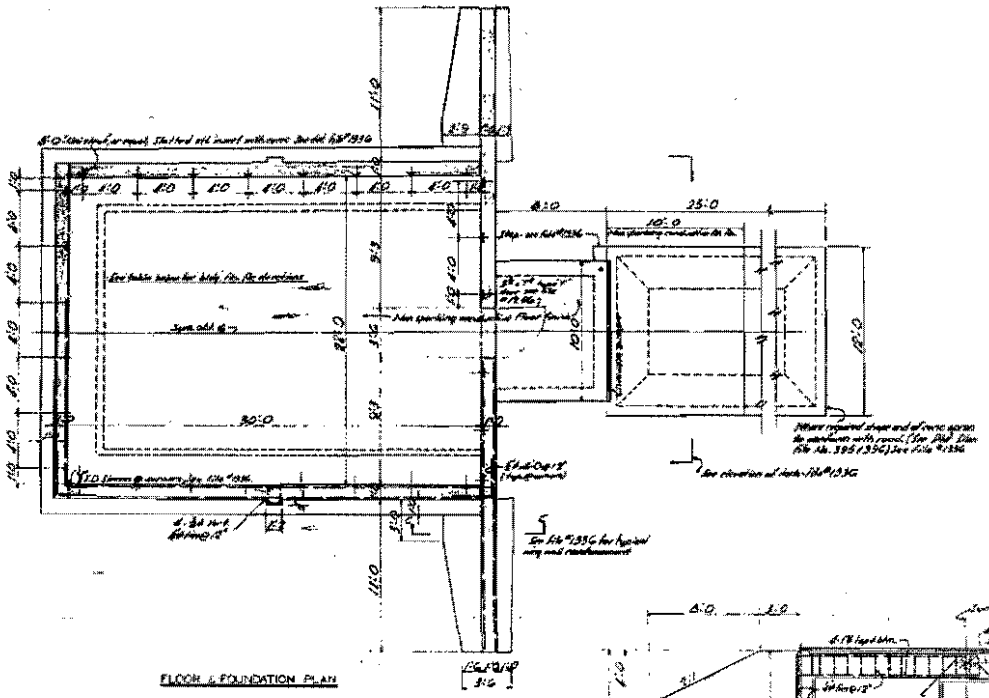
Alterations

List of Drawings (Cntrl + Enter for para break)

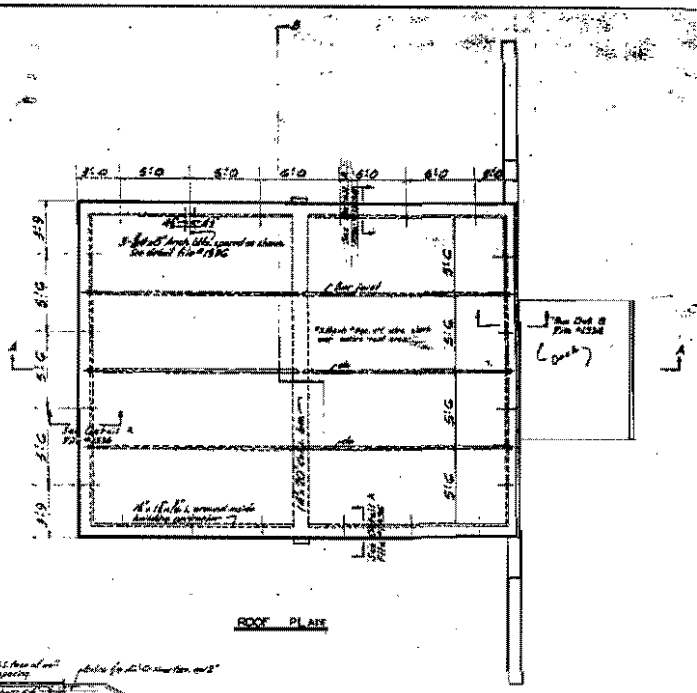
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3097
TA-37 Bldg. MAC-22, [TA-37-22]
Floor Plan
August 20, 1964

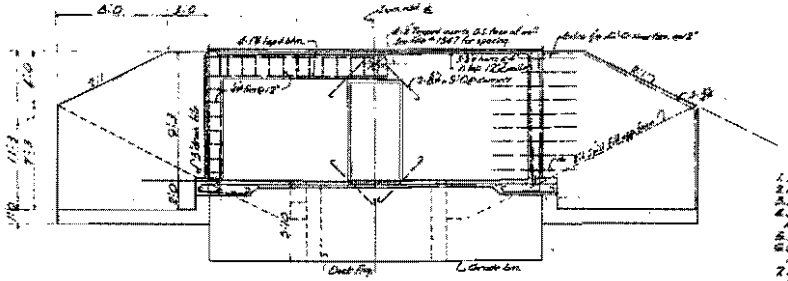
TA-37-22 South Elevation



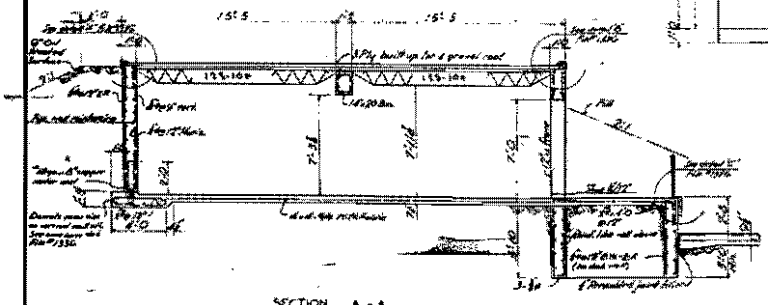
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be type A & shall develop a strength of 3000 p.s.i. in 28 days.
2. All of the cement shall be worked with a wood trowel or cement board.
3. Reinforcement shall be of intermediate grade deformed bars.
4. Exterior wall forms shall be plywood & walls shall be finished smooth. Exterior walls may be left rough.
5. Exterior walls, ceilings & all exposed metal shall be given 3 coats of lead & oil paint.
6. Exterior slab, wall thickness to be increased with earth shall be waterproofed with 3 ply felt & mop for solid.
7. Curb fillet rad. by radius of 2'-0" for walk in each direction. Round all other corners and rad. by radius of 6" for walks and 12" rad.
8. Cement mortar to be proportioning system with 5% lime & graded sugar sand.
9. Where shown on plans, same slab shall be given a non slip finish with floor finish. Slabs shall be placed in two courses, top course of brick. Construction joint shall be grooved.
10. A 6" compacted surface of soil treated earth shall be applied over earth fill where critical grade.
11. All foundations shall be carried to solid bearing with a min. reinforcement of 1 bar each (1 of 4).
12. Foundation mat at "snow block grade may be poured without forming provided trenches are cut to sizes shown on plans.
13. The 25" conc. block apron is to be included as part of the bldg.

Bldg. No.	Unit on mat / Top Floor Elevations
3710	22 / 7973.9
3711	124 / 7974.5
3712	20 / 7975.0
3713	29 / 7976.1
3719	13 / 7979.9
3720	18 / 7981.0
3721	3 / 7982.7
3722	18 / 7982.6
3723	[illegible] / 7982.5
3724	20 / 7983.6
3725	24 / 7985.2
3726	47 / 7221.0

Other Contr.
Pilot Plans — File No. 395 & 396
Conc. Apron, Curb — 1956
Steel, Lawn — 1947
Typ. Details — 1886

AS BUILT DRAWING
AT (29-11) 79

Scale 1/10 — Serial File 1886

STRUCTURAL LAYOUT - BLDG. 3710 to 3726 INC.
BLDGS. WITH 24 THROUGHOUT & WITH 12 AND 36 THROUGHOUT
PLANS & SECTIONS

256

LOS ALAMOS — TA - 37 — NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

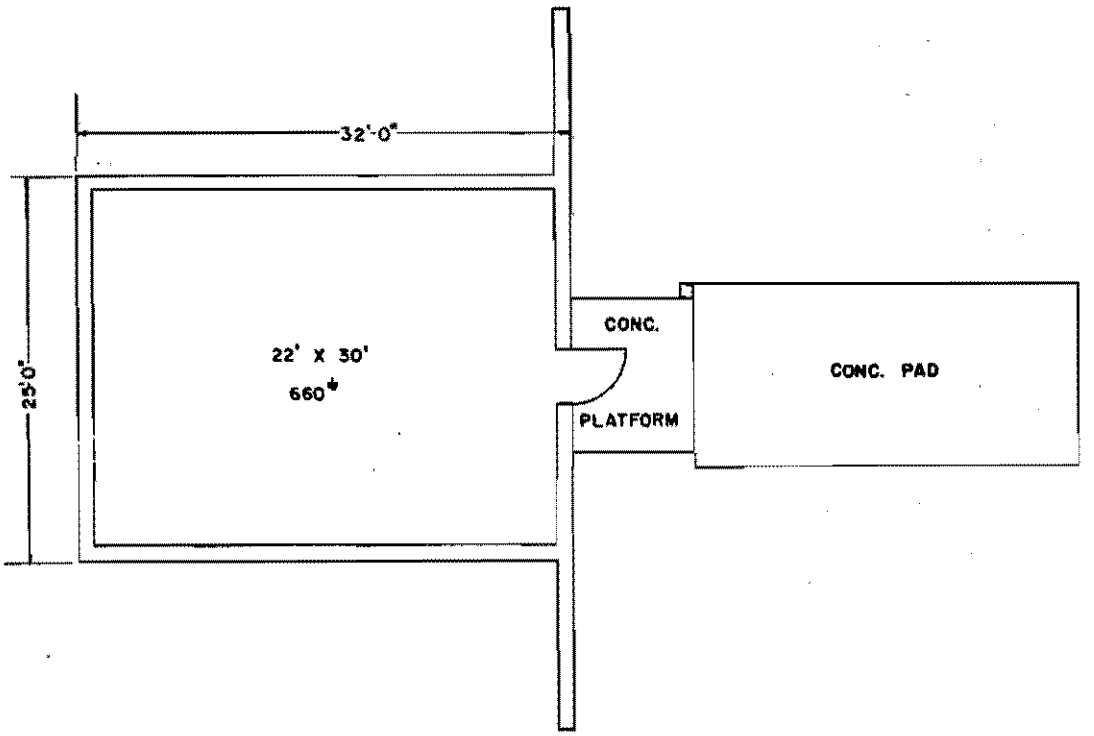
6-3-49

SHEET 9 OF 37

LAB JOB 186

L.A.S.L. DWG. NO. ENG-C 1801

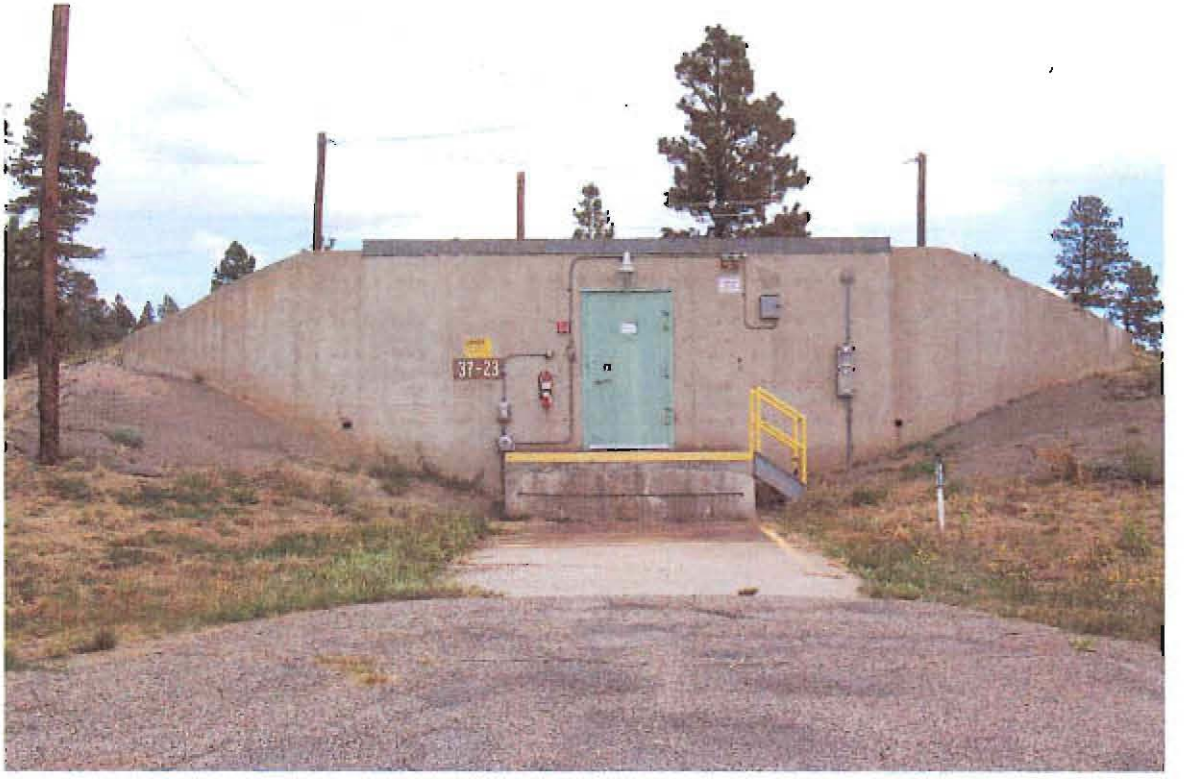
SFA-EF-89



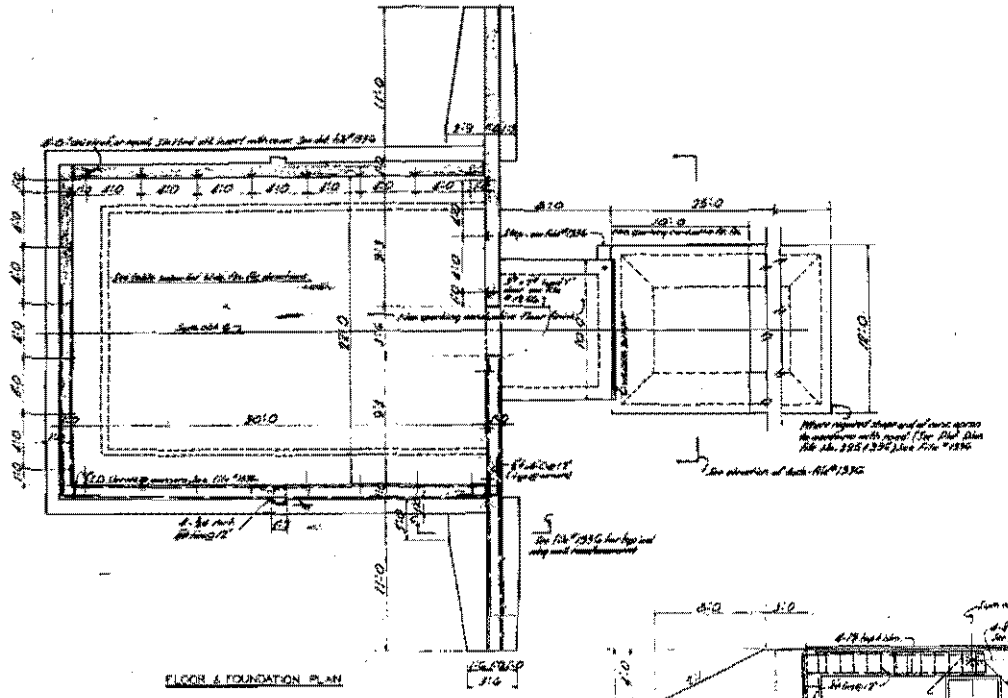
TOTAL SQ. FT. 660

LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. MAC.-22 TA-37	
APPROVALS: ENG. GROUP 3 SER DIVISION: ENG. DEPT. OFFICE:	DESIGN: DESIGNER: BREMER PROJ. ENG.	DATE 8/20/64 SHEET 1 OF 1	SCALE 1/8"=1'-0" SKETCH NO. ENG.-R 3097

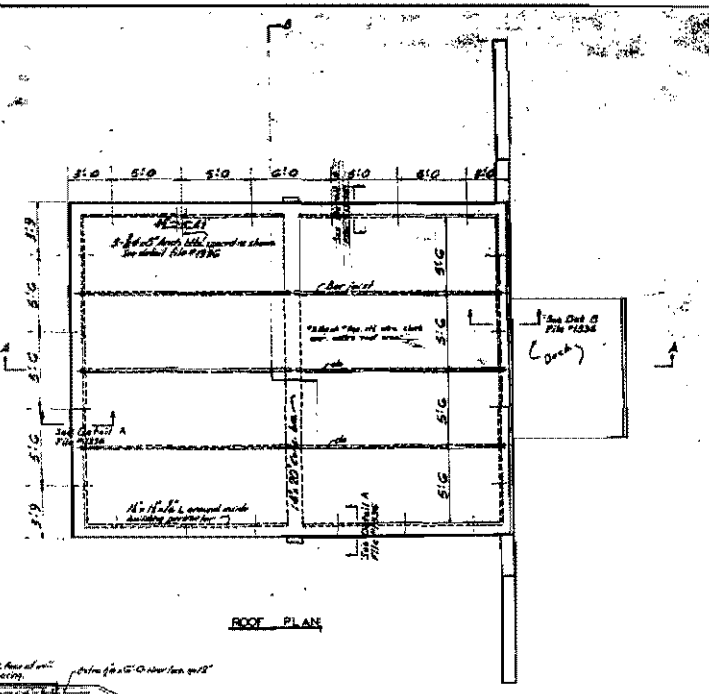
INFO. SHOWN CURRENT AS OF 8/5/64 S. A. NO. J. O. NO. LAB. JOB NO.



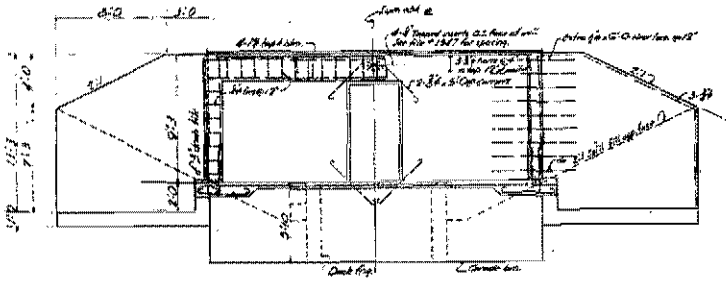
TA-37-23 South Elevation



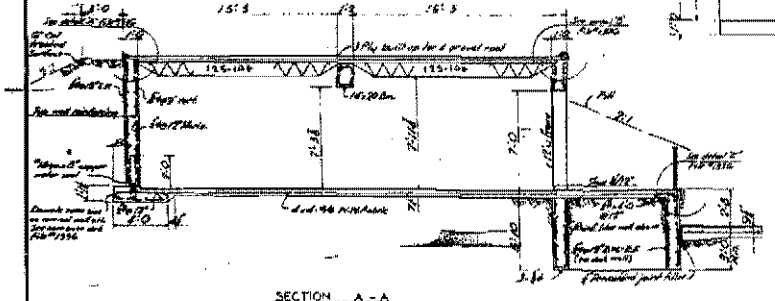
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

NOTES

1. All concrete shall be type A & shall develop a strength of 3,000 p.s.i. @ 28 days.
2. Make f.b. around skylight with cant strip of cement sand.
3. Reinforcement shall be intermediate grade deformed bars.
4. Exterior wall forms shall be plywood, & walls shall be finished smooth. Exterior walls may be left rough.
5. Exterior walls, ceilings of all recessed areas shall be given 3 coats of best grade oil paint.
6. Exterior bldg. wall flashing are to be concreted with earth shall be waterproofed with 3 gals. best grade coal tar pitch.
7. Bend steel ctr. by cutting at 30 intervals in each direction. Bend to other same as noted by dotted lines or multiple metal straps.
8. Concrete shall be generally spaced with 4" thick concrete expansion joints.
9. Where shown on plans, conc. slab shall be given a non-spalling carborundum floor finish.
10. Slabs shall be placed in two courses, top course 4" thick. Construction slab shall be grounded.
11. All foundations shall be carried to solid bearing with a min. depth of 12" below natural grade.
12. Foundation walls & timber floors, grounds may be poured without forming provided trenches are cut to true shape & dimensions.
13. The 25' conc. deck apron is to be included as part of the bldg.

Designation	Size & no. of units per floor	Total Floor Area
371A	131-36.0	7075.9
371B	134-37.0	7265.5
371C	134-37.0	7265.5
371D	131-36.0	7076.1
371E	131-36.0	7259.0
371F	131-36.0	7259.0
371G	134-37.0	7265.5
371H	134-37.0	7265.5
371J	131-36.0	7076.1
371K	131-36.0	7259.0
371L	134-37.0	7265.5
371M	134-37.0	7265.5
371N	131-36.0	7076.1
371P	131-36.0	7259.0

Sheet Index

Sheet Name	File No. 395 & 396
Floor Plans	1956
Cover Sheet	1347
Sketch, Legend	1956
Typ. Details	

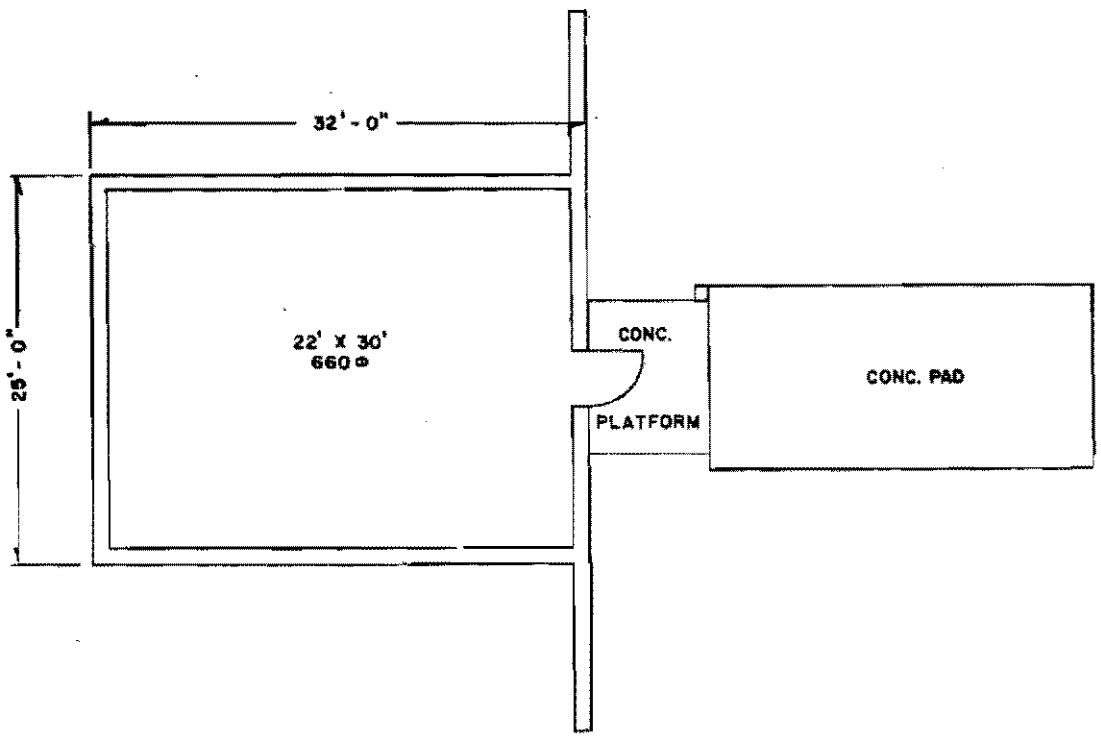
AS BUILT DRAWING
M 29-17 79

Scale 1/8" = 1'-0"	Location Title 1956	
STRUCTURAL LAYOUT - BLOCKS 371A & 371B INC. SLABS WORK DWG. FOR PLANS & SECTIONS		File No. 256
LOS ALAMOS	TA-33	NEW MEXICO
BLACK & VEATCH — CONSULTING ENGINEERS		Date 6-3-49
Drawn C.A.	Checked	Approved
Sheet 9	No. 37	

LAS JOB 186

LASLOWG.NO.ENG-C 1801

SFA-EF-193



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AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PROT.	
SEC.	

TOTAL SQ. FT. 660

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

FLOOR PLAN
BLDG. MAC-23 TA-37

APPROVALS:
ENG. GROUP: 3 JER
DIVISION:
ENG. DEPT. OFFICE:

DESIGN:
DESIGNER: BREMER
PROJ. ENG.:

DATE: 8/20/64
SCALE: 1/8" = 1'-0"
SHEET: 1 OF 1
SKETCH NO.: ENG.-R3098

INFO. SHOWN CURRENT AS OF 8/5/64

B. A. NO. J. O. NO. LAB. JOB NO.

K-E LA 0808

LANL TA- Building # 37-0024

Camera PN #984242

Frame #s DCP_0257 & DCP_2286

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381489 northing 3965941 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-23 and TA-37-25 through TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

Total sq ft 660 net

Architect/ Builder Black & Veatch Consulting Engineers

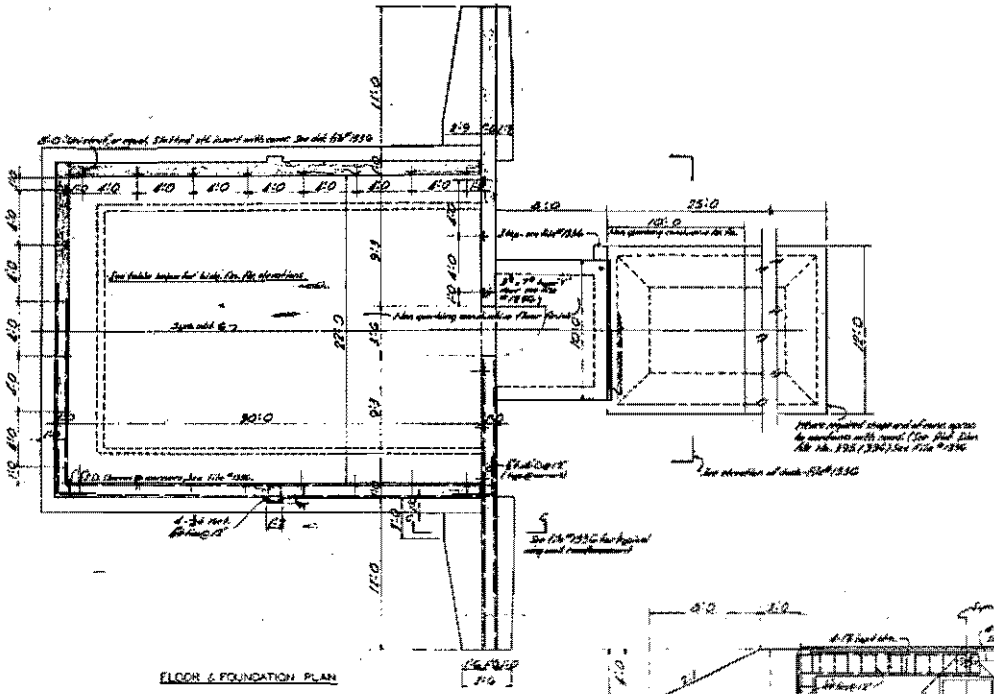
Alterations

List of Drawings (Cntrl + Enter for para break)

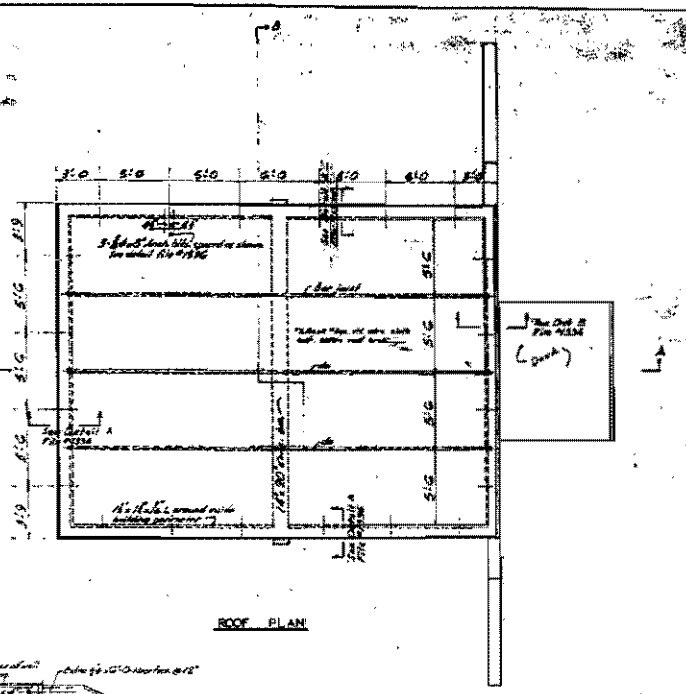
ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

ENG-R 3099
TA-37 Bldg. MAC-24, [TA-37-24]
Floor Plan
August 20, 1964

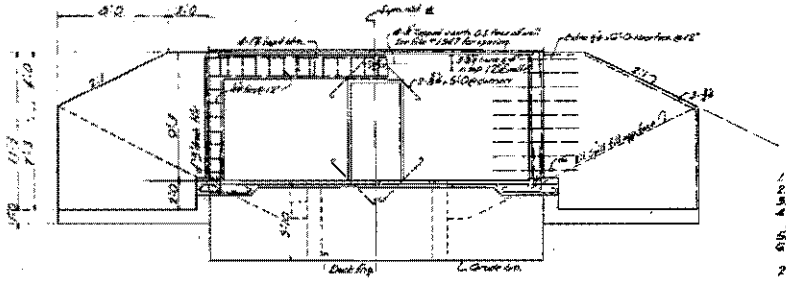
TA-37-24 South Elevation



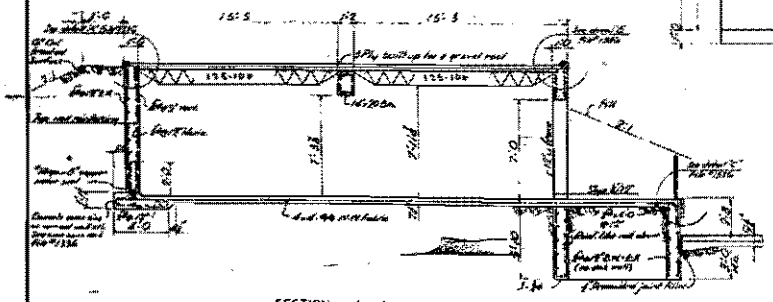
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

Bldg. No.	Floor Area (Square Feet)	No. Floors & Elevation
3716	121'-96.0	7175.9
3716	124'-220	7166.5
3717	124'-760	7165.5
3718	139'-94.0	7164.1
3719	121'-76.5	7159.9
3720	130'-95.5	7149.0
3721	160'-83.5	7148.9
3722	160'-83.5	7146.9
3723	[illegible]	7144.5
3724	160'-83.5	7143.5
3725	160'-83.5	7139.5
3726	147'-75.0	7137.0

Ref'd Dwgs.

	File No. 795 & 396
Plot Plans	1956
Door Access. det.	1947
Sheet Layout	1956
Typ. Details	

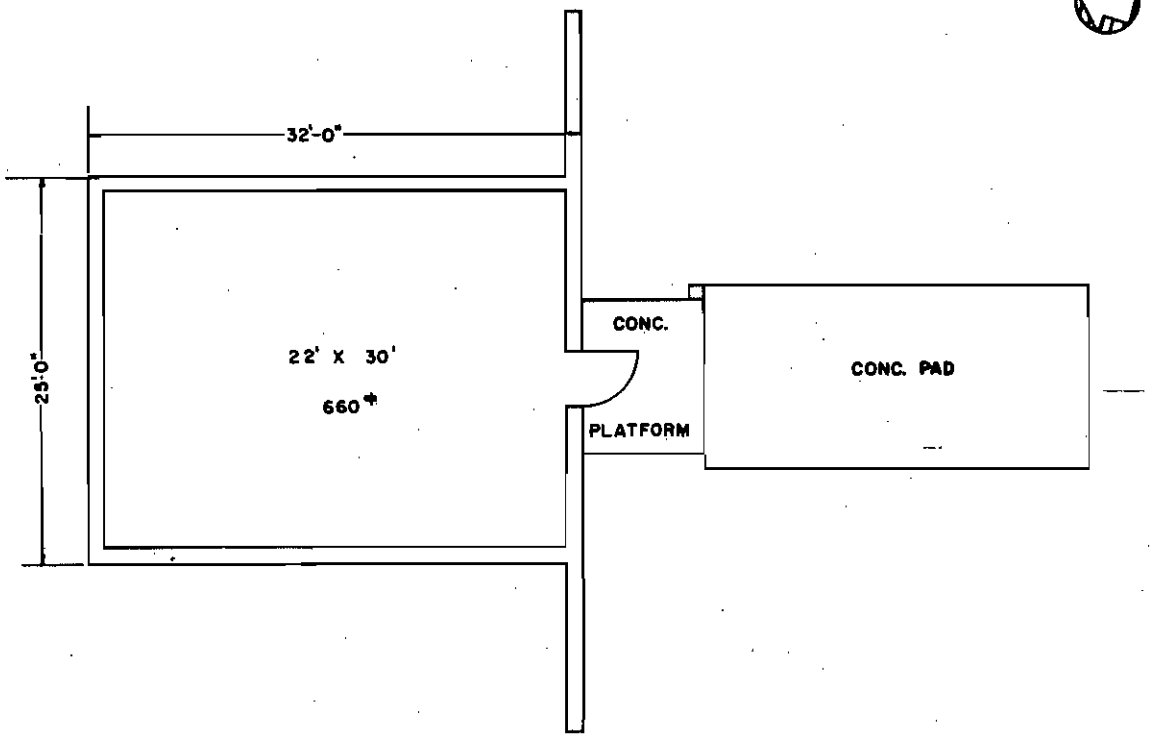
AS BUILT

Notes

1. All concrete shall be Type A & shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mix of lb. cement shall not exceed 6 gals water per sack of cement used.
3. Reinforcement shall be #1 intermediate grade deformed bars.
4. Exterior wall forms shall be plywood, & walls shall be textured smooth. Color or white may be left to weather.
5. Exterior walls, ceilings & all exposed metal shall be given 3 coats of best flat paint.
6. Exterior bldg. walls that are to be covered with earth shall be waterproofed with 3 plies felt & mop finished.
7. Expansion joint material shall be given 3 coats of best flat paint.
8. Control joints to be formed by embedding 3" x 3" x 3'-0" intervals in each direction. Bond of all other joints shall be detailed on individual detail sheets.
9. Where shown on plans, some joints shall be formed to act as keyed construction joints.
10. All concrete surfaces of all buildings shall be finished smooth & shall be given a coat of white cement grout.
11. All foundations shall be carried to solid bearing with a min. penetration of 12" into rock (Typ.)
12. Foundations with 6" interior floors, granular may be poured without forming provided trenches are cut to exact shape.
13. The 36" cover, check option is to be considered as part of this bldg.

Scale 1/4" = 1'-0"	Survey File No. 836
Title: ARCHITECTURAL LAYOUT - BLOCKS 3716 to 3726 INCL. ROADS, WALKS, CURBS, GUTTERS, STORM DRAINS & YARD LIGHTING PLANS & SECTIONS	Plan No. 256
LOS ALAMOS TA-33 NEW MEXICO	Checked A.C. Conroy
BLACK & VEATCH — CONSULTING ENGINEERS	Date 8-3-49
	Sheet 9 of 17

LAB JOB 186 LA&SL OWG NO. ENG-C 1801 JFA-EF-2.2



LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. MAC-24 TA-37	
APPROVALS: ENG. GROUP: 3 SER DIVISION: ENG. DEPT. OFFICE:	DESIGN: DESIGNER: BREMER PROJ. ENG.	DATE 8/20/64 SHEET 1 OF 1	SCALE 1/8" = 1'-0" SKETCH No. ENG.-R3099

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS OF 8/5/64

S. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0025

Camera PN #984242

Frame #s DCP_0258 & DCP_2285

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381562 northing 3965945 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-24 and TA-37-26 and TA-37-27.

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

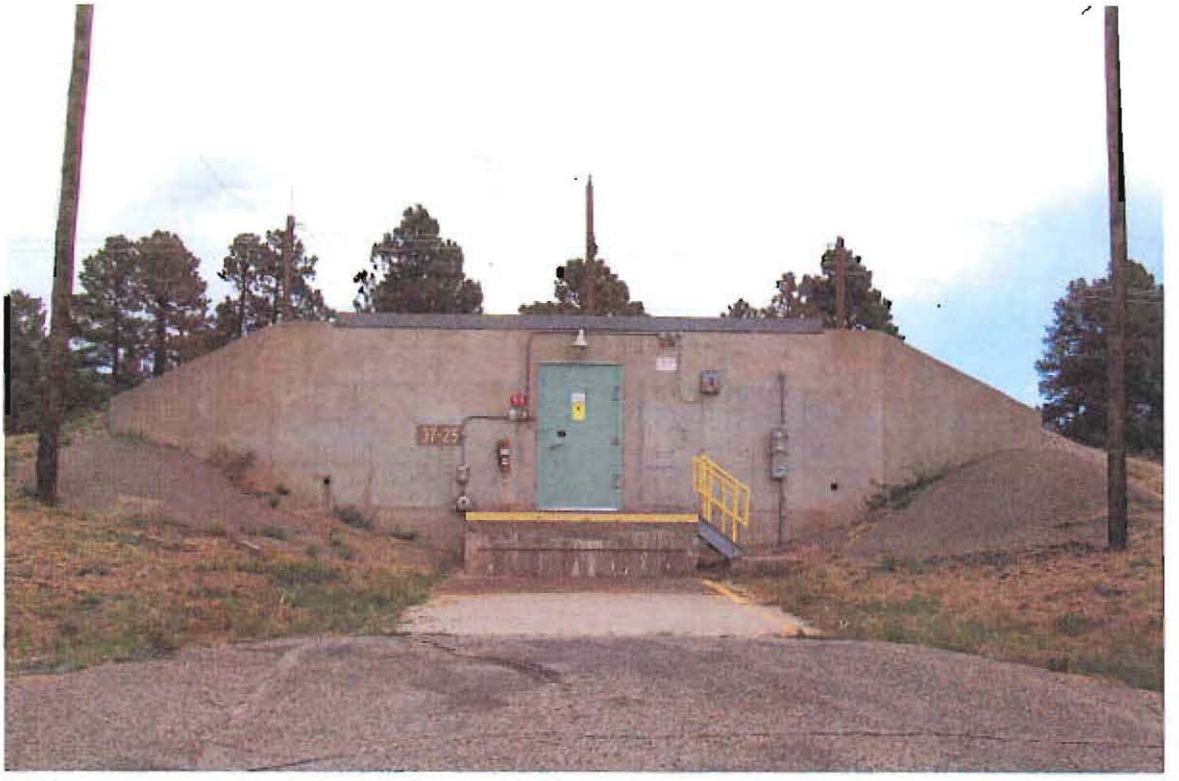
Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

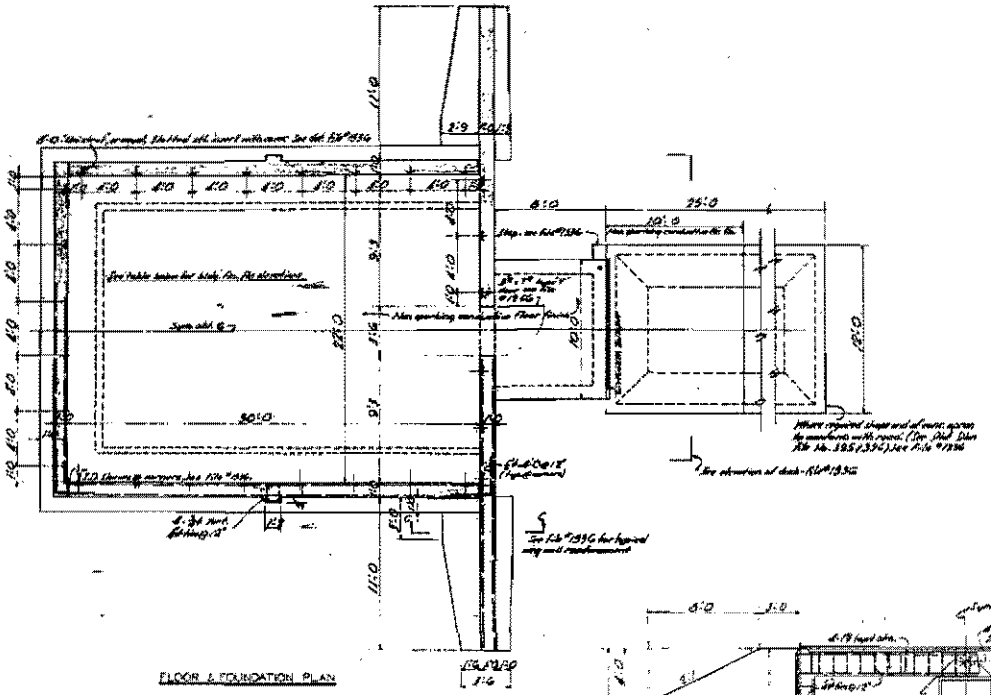
List of Drawings (Cntrl + Enter for para break)

ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

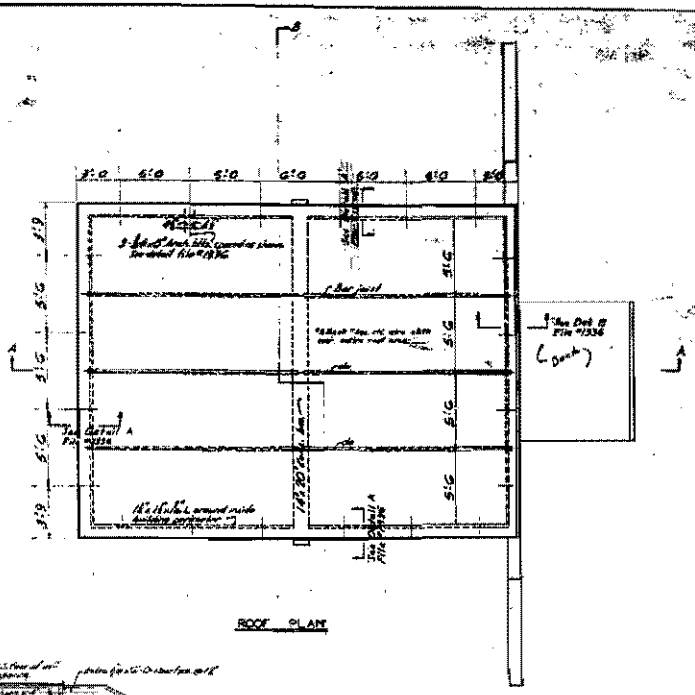
ENG-R 3100
TA-37 Bldg. MAC-25, [TA-37-2S]
Floor Plan
August 20, 1964
Revised to status of February 2, 1984



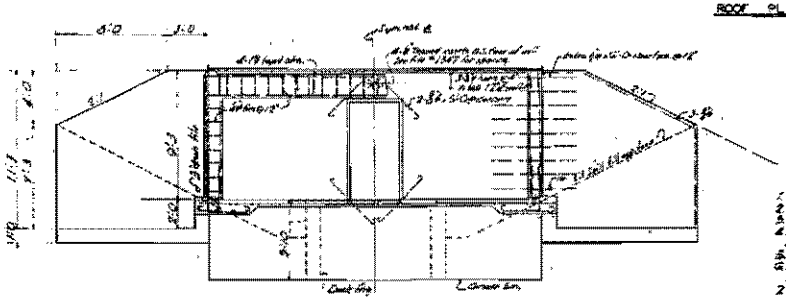
TA-37-25 South Elevation



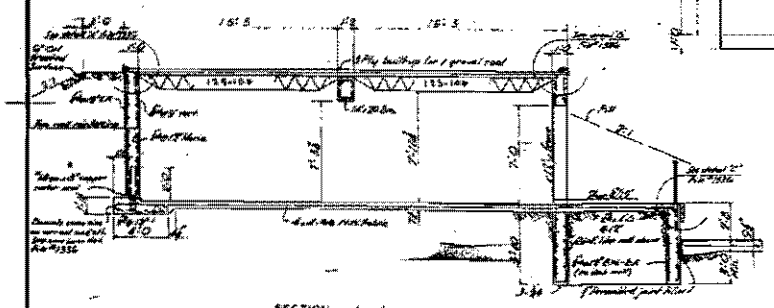
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B

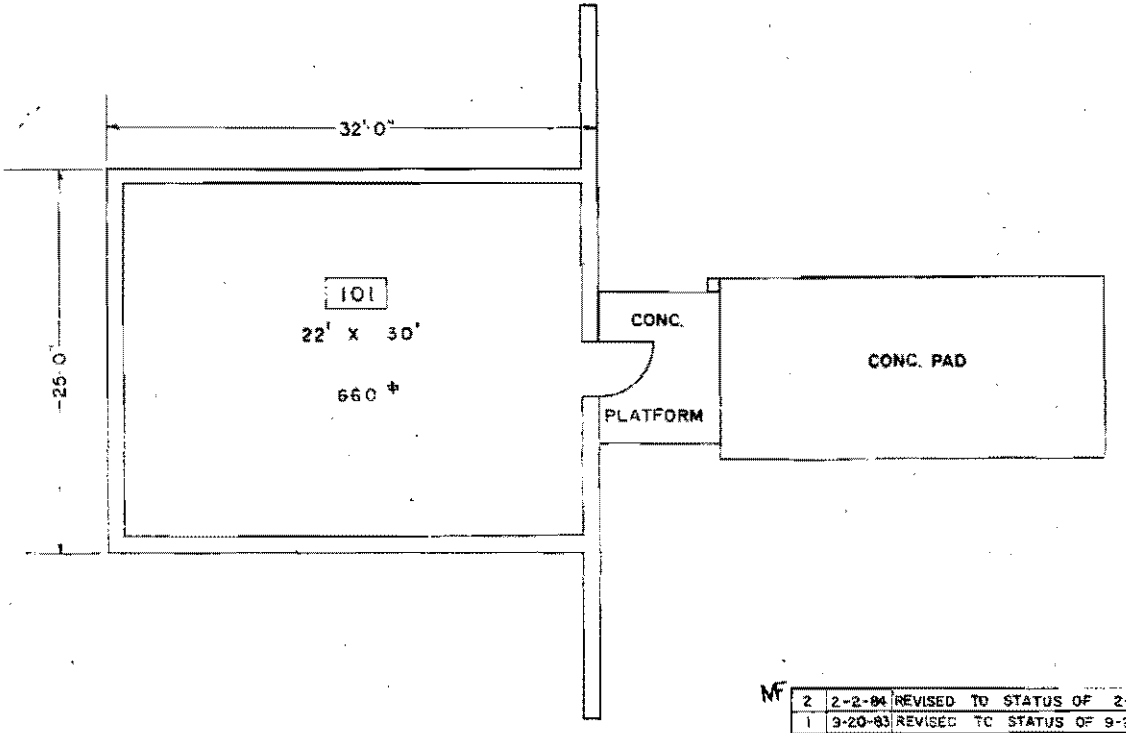


SECTION A - A

NOTES

1. Admixture shall be type A & shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mild S.S. cut-off corner mitre each side of control joint.
3. Reinforcement shall be discontinuous @ control joints.
4. Exterior wall forms shall be plywood, & walls shall be finished smooth. Exterior walls are to be left rough.
5. Exterior walls, ceiling & all exposed corners shall be given 3 coats at least @ all joints.
6. Exterior slab, wall thickness to be covered with earth shall be reinforced with 3 plies felt & mop hot pitch.
7. Barrel roof slab by reinforced 3'-0 intervals in each direction. Bond all other corners at all by cement mortar or surface coating of tar.
8. Control joint to be secondary pipeline with 4" x 3/8" stranded copper cable.
9. Where shown as pipes, cove, black shall be given a two spacing coat for floor finish.
10. A 6" compacted surface of all finished earth shall be applied over earth fill about original grade.
11. All foundations shall be carried to solid bearing with a min. excavation of 12" for rock (6" fill).
12. Insulation walls 6" to be thick, good roof to be poured without foaming, pressed. Direction are not to vary more than 45 degrees.
13. The 25' crane clock system is to be included as part of the bldg.

Bldg. No.	Floor Elevation	Roof Elevation
3716	721'-9.0	731'-5.9
3716	724'-7.0	734'-6.9
3717	726'-7.0	736'-8.9
3718	729'-2.5	736'-6.1
3719	731'-7.5	739'-3.9
3720	734'-2.5	741'-8.0
3721	736'-7.5	744'-2.7
3722	739'-2.5	746'-8.0
3723	741'-7.5	749'-2.9
3724	744'-2.5	751'-8.0
3725	746'-7.5	754'-2.9
3726	749'-2.5	756'-8.0
3727	751'-7.5	759'-2.9



REV	DATE	REVISION	BY	CHD	APP
2	2-2-84	REVISED TO STATUS OF 2-2-84	HBN		
1	9-20-83	REVISED TO STATUS OF 9-20-83	HBN		

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

FACILITIES ENGINEERING DIVISION

MAGAZINE
FLOOR PLAN

BLDG. MAC-25 TA-37

SEC. CLASSIFICATION: CLASS. U; REVIEWER Frakes; DATE 3-6-84

SUBMITTED E. Trujillo
RECOMMENDED Dawn Ryan
APPROVED

DRAWN BREMER
CHECKED
DATE 8-20-64
SHEET NO. 1 OF 1
DRAWING NO. ENG-R 3100

1/8" = 1'-0"
0 5 10 15
GRAPHIC SCALE

TOTAL SQ. FT 660

INFO. SHOWN CURRENT AS OF _

K+E

LANL TA- Building # 37-0026

Camera PN #984242

Frame #s DCP_0259 & DCP_2284

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Magazine UTMs easting 381635 northing 3965932 zone 13

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

Current Use/ Function Magazine Original Use/ Function Magazine

Date (estimated) 1950 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 Earth berm on three sides.

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc) Exterior features include a wall-mounted light fixture over the door, a fire extinguisher, explosion-proof switches, amber warning lights, conduit and junction boxes, informational signage, and a 10 -ft wide by 8 -ft deep by 2 -ft 8-in. high 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

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 bar joists with three-ply, built-up tar and gravel roofing.

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 ☑

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: Single 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 TA-37-1 through TA-37-25 and TA-37-27.

Integrity Excellent

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 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 magazine is a one-story, rectangular-in-plan structure with an exterior measurement of 25 ft by 32 ft with a single interior room. The structure is constructed with a reinforced concrete foundation, 1-ft-thick reinforced concrete floor slab, and 1-ft-thick reinforced concrete walls. The flat roof was constructed with 12-in. deep bar joists finished with a three-ply, built-up tar and gravel roofing.

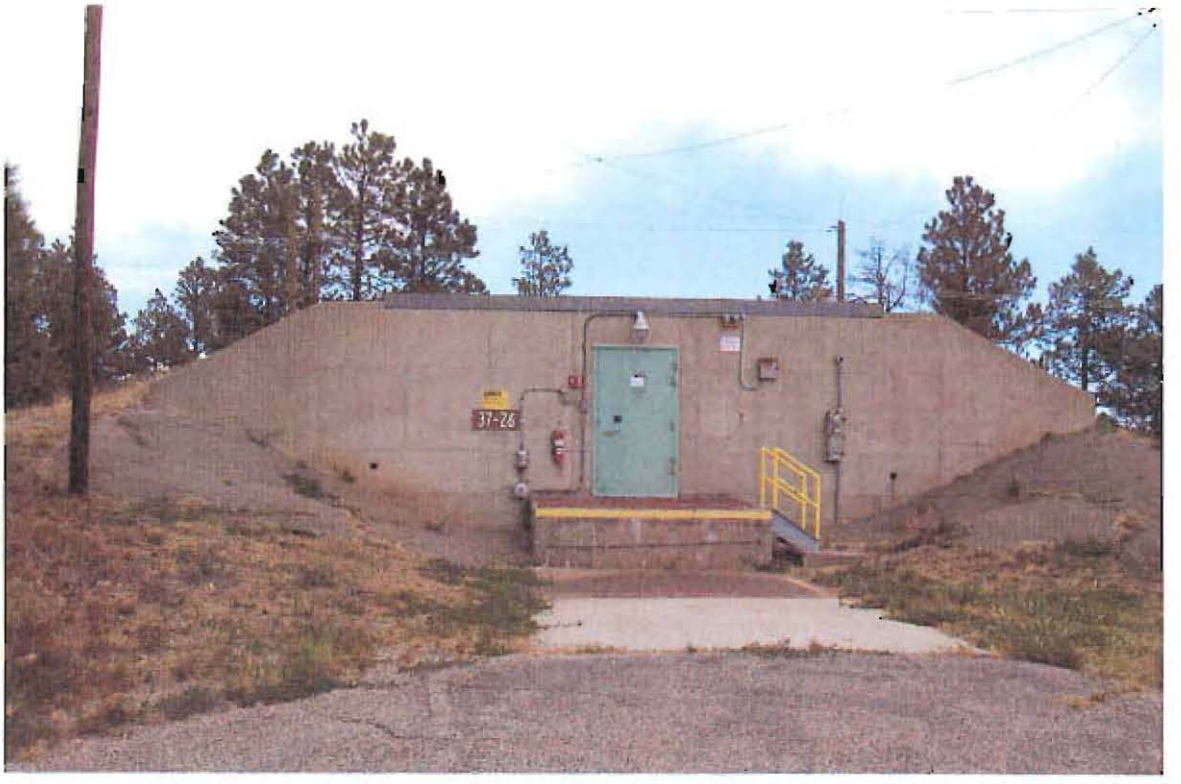
Total sq ft 660 net **Architect/ Builder** Black & Veatch Consulting Engineers

Alterations

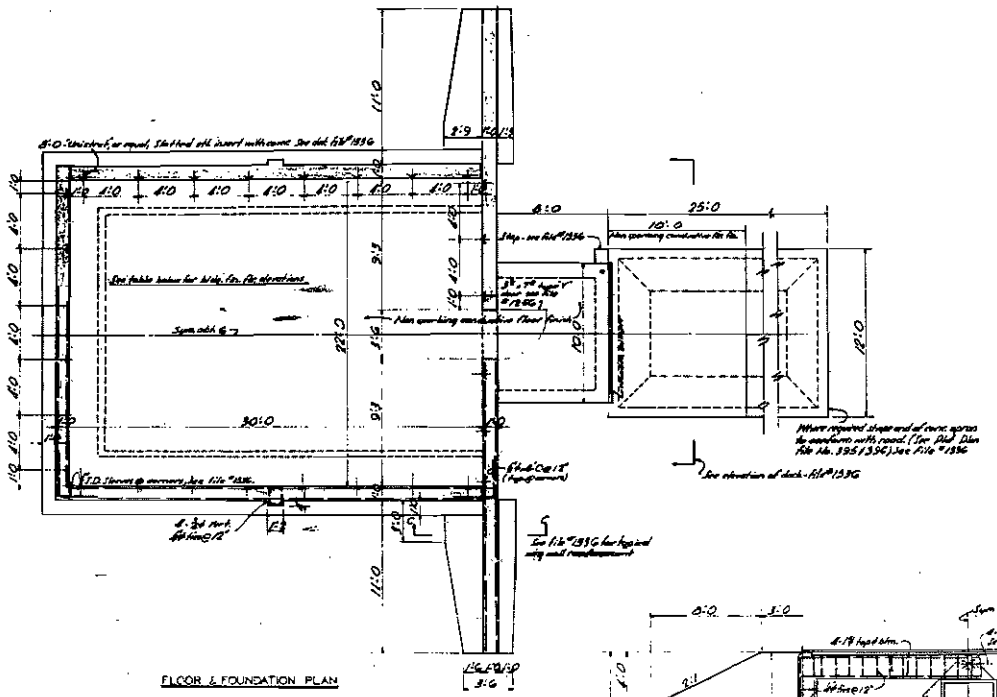
List of Drawings (Cntrl + Enter for para break)

ENG-C 1801
Sheet 9 of 37
Structural Layout - Bldgs No. 3715 to 3726 (MAC-15 thru MAC-26), [TA-37-15 thru TA-37-26]
Plans & Sections
June 3, 1949

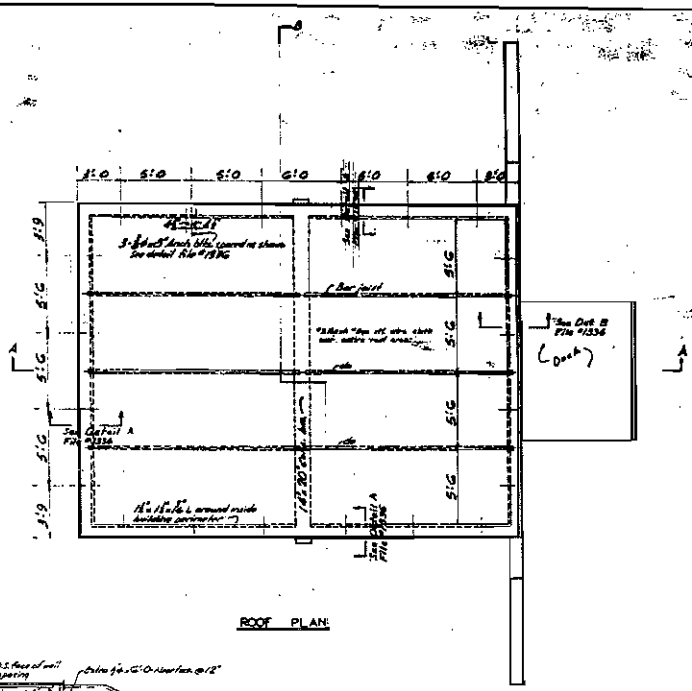
ENG-R 3101
TA-37 Bldg. MAC-26, [TA-37-26]
Floor Plan
August 20, 1964



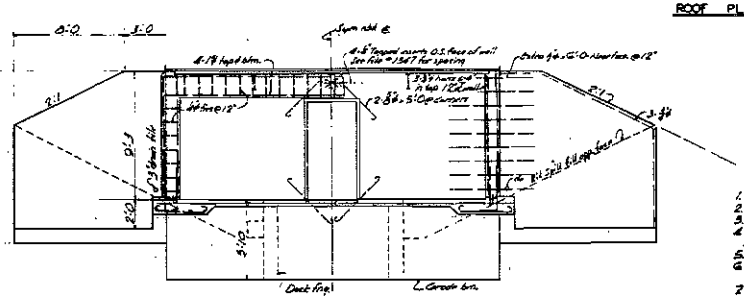
TA-37-26 South Elevation



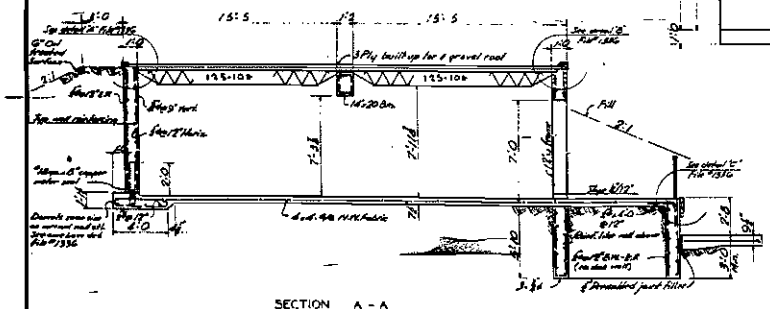
FLOOR & FOUNDATION PLAN



ROOF PLAN



SECTION B - B



SECTION A - A

Bldg. No.	Elevation at north barrier road	Fin. Floor Elevation
3715	121+95.0	7215.9
3716	124+27.0	7216.5
3717	126+78.0	7216.5
3718	129+29.0	7216.1
3719	131+71.5	7215.9
3720	134+35.5	7218.0
3721	136+78.3	7218.7
3722	138+41.8	7218.0
3723	140+00.0	7221.3
3724	143+26.3	7217.8
3725	145+89.0	7215.7
3726	147+75.0	7221.0

Refer Dwgs.

	File No. 395 & 396
Plot Plans	1356
Door Assem. Det.	1347
Sheet Layout	1336
Typ. Details	

AS BUILT REVISED DRAWING
AT (29-1) 779

NOTES

1. All concrete shall be type A & shall develop a strength of 3000 p.s.i. @ 28 days.
2. Mix 5 lb. cement dispersor with each sack of cement used.
3. Reinforcement shall be intermediate grade deformed bars.
4. Exterior wall forms shall be plywood, & walls shall be finished smooth. Exterior walls may be left rough.
5. Interior walls, ceiling & all exposed steel shall be given 3 coats of lead & oil paint.
6. Exterior bldg. wall that are to be covered with earth shall be waterproofed with 3 plies felt & coal tar pitch.
7. Lead joint rib. by welding 2"x2"x10 channels in each direction. Bond all other metal to metal ext. by direct weld or suitable metal strap.
8. Connect roof to grounding system with 3/8 bare stranded copper cable.
9. Where shown on plans, conc. slabs shall be given a non sparking conductive floor finish. Slabs shall be placed in two courses, top course 1½" thick. Conductive top shall be grounded.
10. A 6" compacted surface of all finished earth shall be applied over earth fill about original grade.
11. All foundations shall be oriented to natural bearing with a min. reinforcing of 12" o/w each (N&W).
12. Foundation walls 6" below finish grade may be poured without footing provided trenches are cut to sizes shown on plans.
13. The 25' conc. deck apron is to be included as part of the bldg.

Scale 1/4"=1'0 — See also File #1336

STRUCTURAL LAYOUT - BLDGS. #3715 to #3726 INC. — BLDGS. WERE SO TYPED BUT WERE ADD'S THRU MAC-16
PLANS & SECTIONS

File No. 256

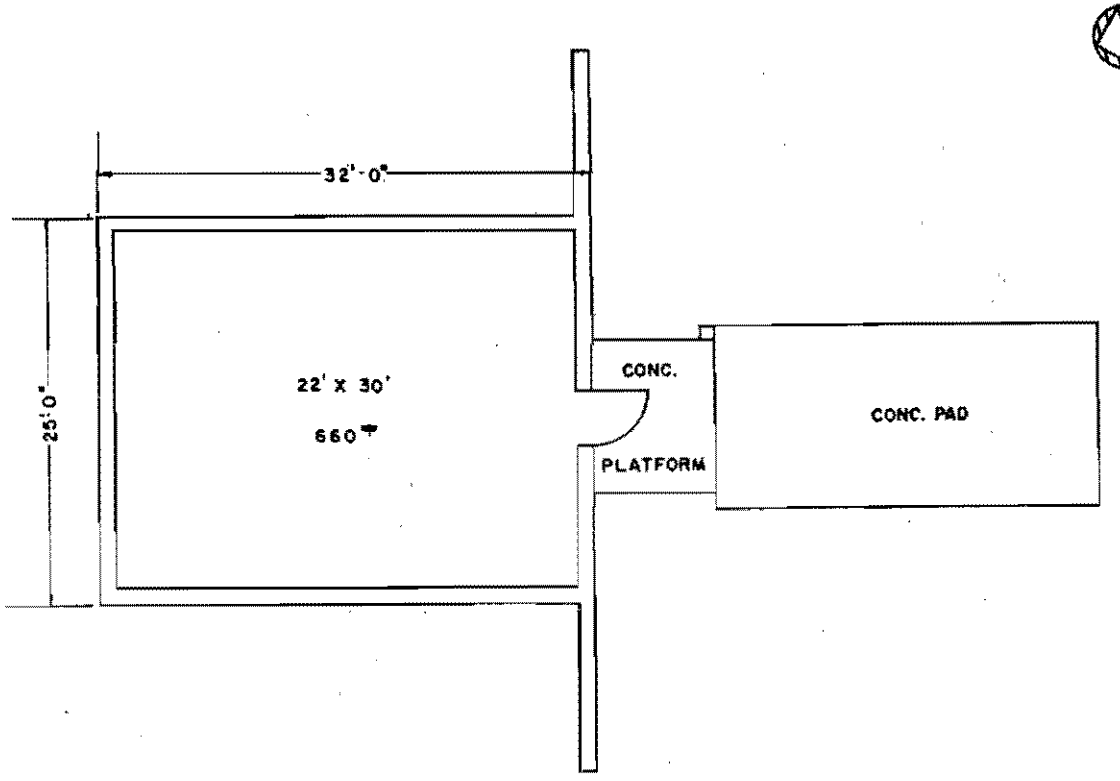
LOS ALAMOS — TA-37 — NEW MEXICO

BLACK & VEATCH — CONSULTING ENGINEERS

Date 6-3-49

Sheet 9 of 37

LAB JOB 186 — L.A.S.L. DWG. NO. ENG-C 1801 — 3FA-EP-9.2



LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG. MAC-26	TA-37
APPROVALS: ENG. GROUP 3 SER DIVISION: ENG. DEPT. OFFICE:	DESIGN: DESIGNER: BREMER PROJ. ENG.:	DATE 8/20/64 SHEET 1 OF 1	SCALE 1/8" = 1'-0" SKETCH NO. ENG.-R 3101

TOTAL SQ. FT. 660

INFO. SHOWN CURRENT AS OF 8/5/64 B. A. NO. J. O. NO. LAB. JOB NO.

LANL TA- Building # 37-0027

Camera PN #984242

Frame #s DCP_0262 thru DCP_0265 & DCP_2272 thru DCP_2274

Surveyor(s) S. McCarthy, J. Ronquillo

Date 4/15/2004

Los Alamos National Laboratory CRT
Historic Building Survey Form

Building Name Storage Building UTMs easting 380876 northing 3966120 zone 13

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

Current Use/ Function Vacant Original Use/ Function Storage Building

Date (estimated) 1951 Date (actual) 1951 Property Type Support

Type of Construction

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

Other Type of Construction Raised concrete floor with exposed foundation. # 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) The building contains pendant light fixtures and signage on the south side and a covered junction box on the west side.

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: One large galvanized steel sliding door on 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 TA-37-1 through TA-37-26.

Integrity Good

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 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-37-27 is a one-story rectangular-in-plan building measuring 40 ft by 20 ft. The building is constructed with a raised concrete foundation and floor slab and steel frame walls sheathed with galvanized corrugated steel panels. An angled concrete retaining wall extends off the east end of the building, equal with the edge of the dock. The low-pitched shed roof consists of a built-up roofing system with a tar and gravel top coat and lightening rods. A 2 -in. by 4 -in. wood fascia completes the edge of the roof on all four sides. To assist with rain run-off, a ground-level concrete gutter was installed on the north side of the building. The only entrance into the building is from the south side. The dock area has been enclosed as the concrete steps, located on both ends of the dock, now terminate at the front wall with very little dock area remaining visible.

Total sq ft 741 net

Architect/ Builder Los Alamos Scientific Laboratory Engineering Department

Alterations The dock area was enclosed in late 1958 to early 1959.

List of Drawings (Cntrl + Enter for para break)

ENG-C 953
Sheet 2 of 4
Building MAC-27 (TA-37 [TA-37 Bldg 27]
Foundation Plan & Details
Floor Plan &Roof Plan
August 15, 1950

ENG-C 954
Sheet 3 of 4
Building MAC-27 (TA-37 [TA-37 Bldg 27]
Architectural Details
August 15, 1950

ENG-C 8624
TA-37, Bldg 27
Permanent Magazine Atrea Storage Bldg. 27
Sliding Door Installation
December 29, 1958

ENG-R 3102
TA-37 Bldg. MAC-27, [TA-37-27]
Floor Plan
August 20, 1964

ENG-C 954
Sheet 3 of 4
Building MAC-27 (TA-37 [TA-37 Bldg 27]
Architectural Details
August 15, 1950
Updated November 28, 2007

ENG-R 3102
TA-37 Bldg. MAC-27, [TA-37-27]
Floor Plan
August 20, 1964
Updated November 28, 2007

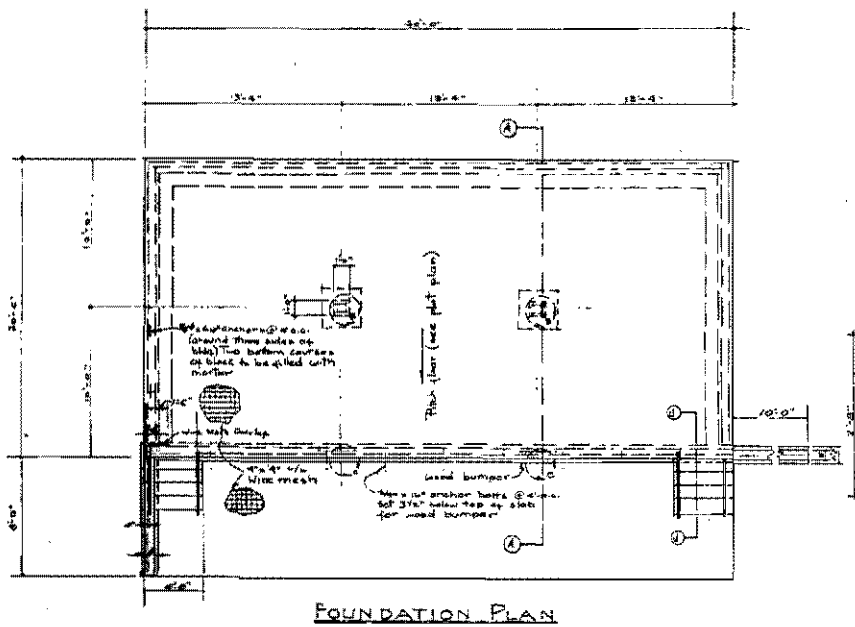
TA-37-27 Southwest Elevation

TA-37-27 Southeast Elevation

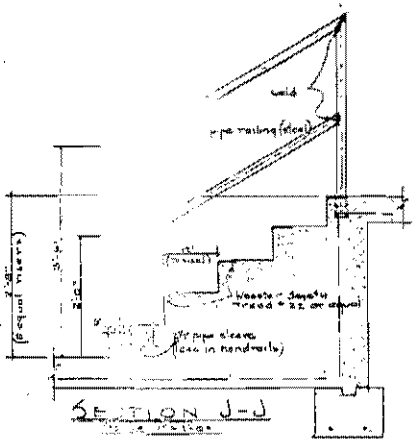
TA-37-27 Northeast Elevation

TA-37-27 Northwest Elevation

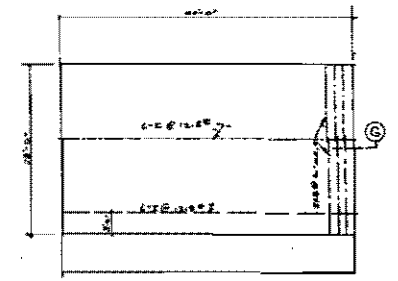
DOES NOT CONTAIN
OFFICIAL USE ONLY
INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/23/04



FOUNDATION PLAN

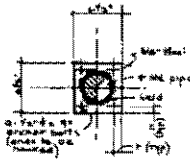


SECTION J-J

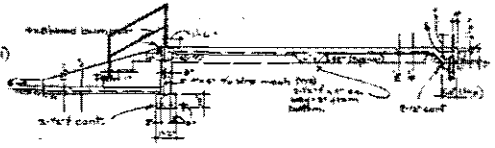


ROOF PLAN
Scale 1/4"=1'-0"

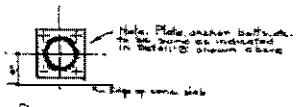
GENERAL NOTES:
- All conc. to be Type 'A' unless otherwise noted.
- All steel to have one shop coat & two coats green paint to match trim on existing bldgs.
- All exposed wood surfaces & all trim to have two coats green to match trim on existing bldgs.
- Wingwall reinforcing typical at Dock wall.



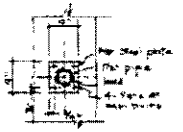
DETAIL B
BASE PLATE
Scale 1"=1'-0"



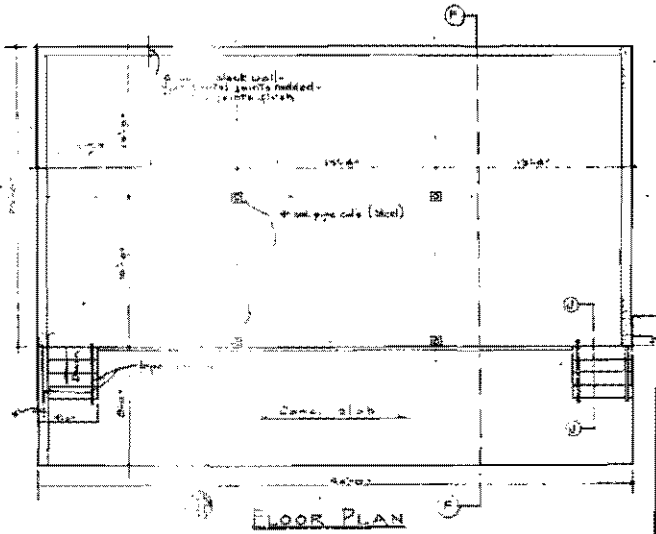
SECTION A-A



DETAIL 'C'
BASE PLATE
Scale 1"=1'-0"



DETAIL 'D'
(see South Elevation)
Scale 1"=1'-0"



FLOOR PLAN

RECORD DRAWING—AS BUILT CONSTRUCTION

SUBMITTED	RECOMMENDED	APPROVED
FOR THE U.S. DOE	A.E.C.	A.E.C.

THIS JOB MUST BE
INSPECTED AND APPROVED

BY _____
DIRECTOR

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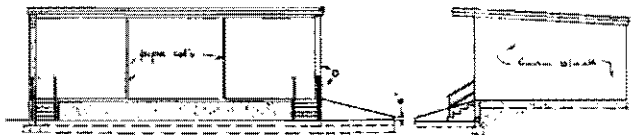
U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS, NEW MEXICO

BUILDING MAC-2T
TA-51
FOUNDATION PLAN & DETAILS
FLOOR PLAN & ROOF PLAN

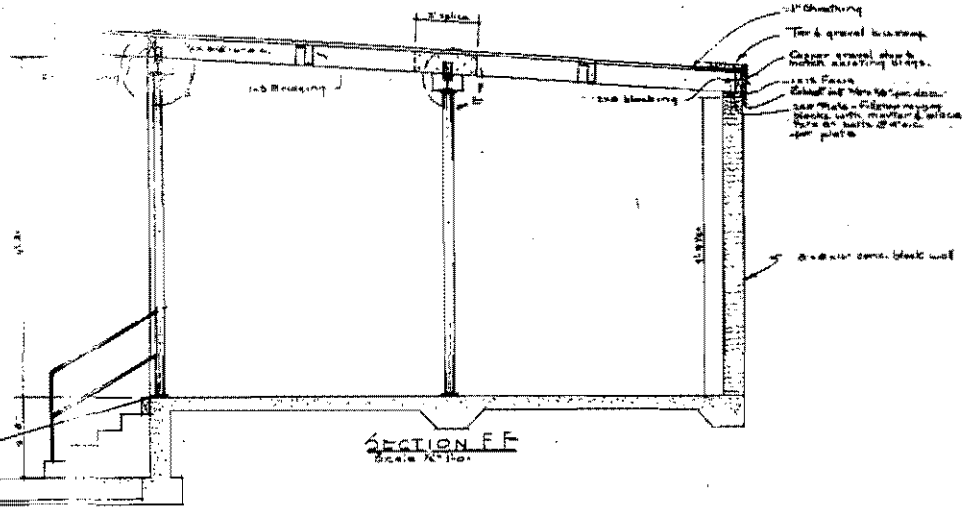
ENG-C 989

LOS ALAMOS SCIENTIFIC LABORATORY
DEPARTMENT OF ENGINEERING
CONSTRUCTION & MAINTENANCE GROUP

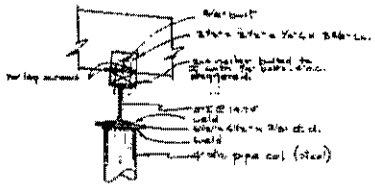
5 4.



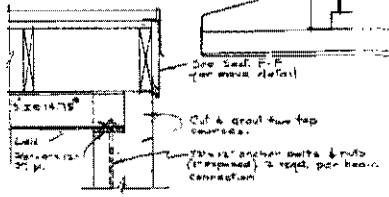
TYPICAL ELEVATIONS
Scale 1/8"=1'-0"



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



DETAIL 'E'
Scale 1/2"=1'-0"



SECTION G-G
(See roof plan)
Scale 1/2"=1'-0"

RECORD DRAWING—AS BUILT CONSTRUCTION

SUBMITTED	RECOMMENDED	APPROVED
FOR THE U.S.A.E.C.	A.E.C.	A.E.C.

THIS JOB MUST BE INSPECTED AND APPROVED BY ..... INSPECTOR

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OFFICIAL USE ONLY

CONSTRUCTION PROCEDURES:

The following procedure is recommended for grading operations in the performance of the work indicated hereon:
(a) That portion of the earthwork within the limits of the foundation and for a distance of at least five (5) feet beyond same or projected to a firm foundation.
(b) Any fill material required to bring the earth to finished grade shall be evenly distributed throughout the excavated area. For compaction details see note #6, Sht. 1, Dwg. No. ENG 6-2 952.
(c) Excavation for building foundations shall be made subsequent to the completion of the compacted fill. All vertical faces of said excavation shall be maintained until the footings have been poured.
(d) Construction conditions permitting, pre slab and walls shall be poured monolithically. All backfill necessary where the elevation of the top of footings shall consist of bank run gravel or sand.
(e) Excavations for bldg. shall be shored to board forms and filled in with 6" compacted layers of fill dirt.

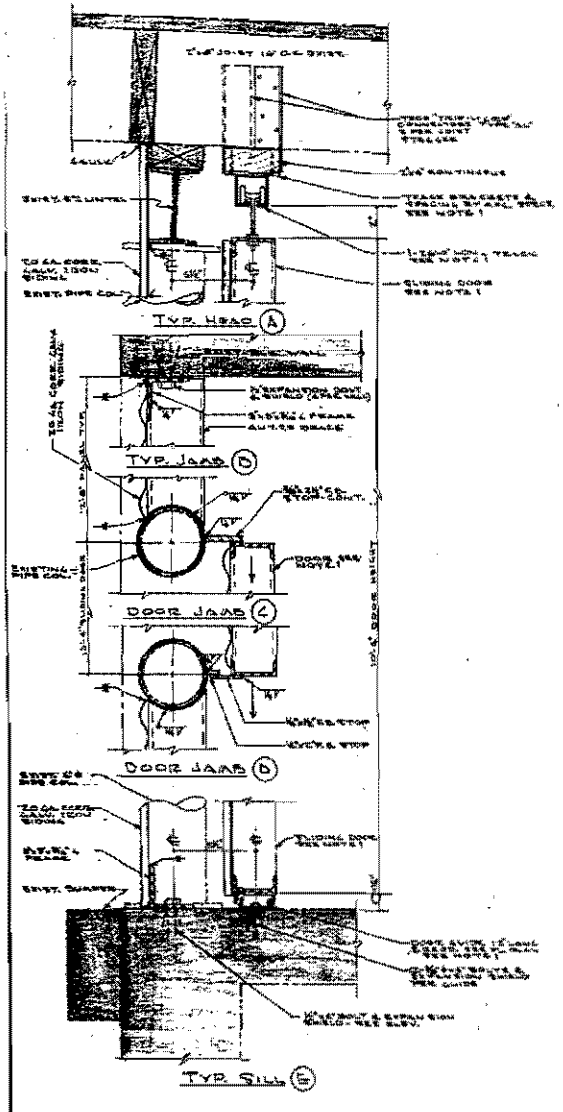
DOES NOT CONTAIN
OFFICIAL USE ONLY
INFORMATION
Name/Org: Jill Hefele/S-7 Date: 9/25/07

U. S. ATOMIC ENERGY COMMISSION
SANTA FE OPERATIONS OFFICE
LOS ALAMOS, NEW MEXICO

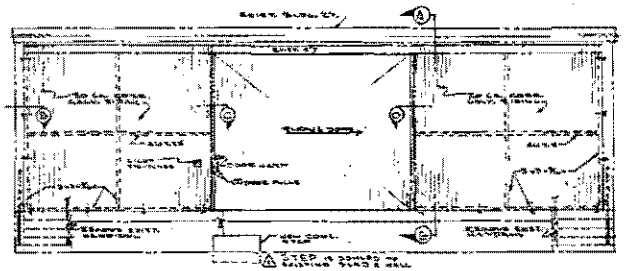
BUILDING MAC-27
TA- 3T
ARCHITECTURAL DETAILS

LOS ALAMOS SCIENTIFIC LABORATORY
DEPARTMENT OF [illegible]
CONSTRUCTION & MAINTENANCE GROUP

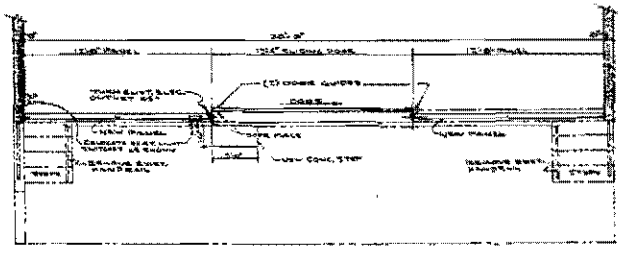
SHEET 3 OF 4



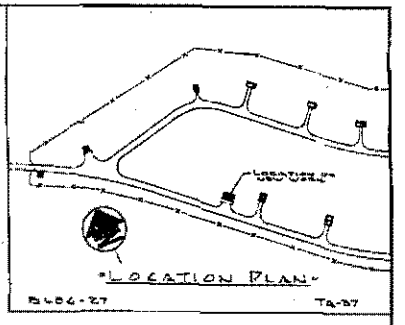
SLIDING DOOR & PANEL DETAILS



"FRONT ELEVATION"



"PARTIAL FLOOR PLAN"



GENERAL NOTES:

1. SLIDING DOOR SHALL BE UNINSULATED, ANGLE OR CHANNEL FRAME COVERED WITH 20GA. GALV. STEEL SUCH AS MANUFACTURED BY BUTLER BUILDING CO. OR APPROVED EQUAL. DOORS SHALL BE ABLE TO WITHSTAND A WIND LOAD OF 15 PSF. AND SHALL BE COMPLETE WITH FLOOR DOOR GUIDES, TRACKS AND ROLLER HARDWARE AND INSTALLED PER MFGR.
2. PAINT ALL NEW WOOD 2 COATS OF LEAD BASED, AND ENAMEL STEEL EXCEPT CONC. SIGN TO BE PAINTED TWO COATS OF STEEL EASY TOTHUT.

THIS JOB MUST BE INSPECTED, AND ANY CHANGES APPROVED BY ENGR. PRIOR TO 7-1988

NO.	DATE	REVISIONS	BY	CHKD	APPD
1	10-1-88	REVISED TO AS-BUILT STATUS WILLSON			

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., E.E., CIVIL, MECH., ELEC., U.E. TELEPHONE

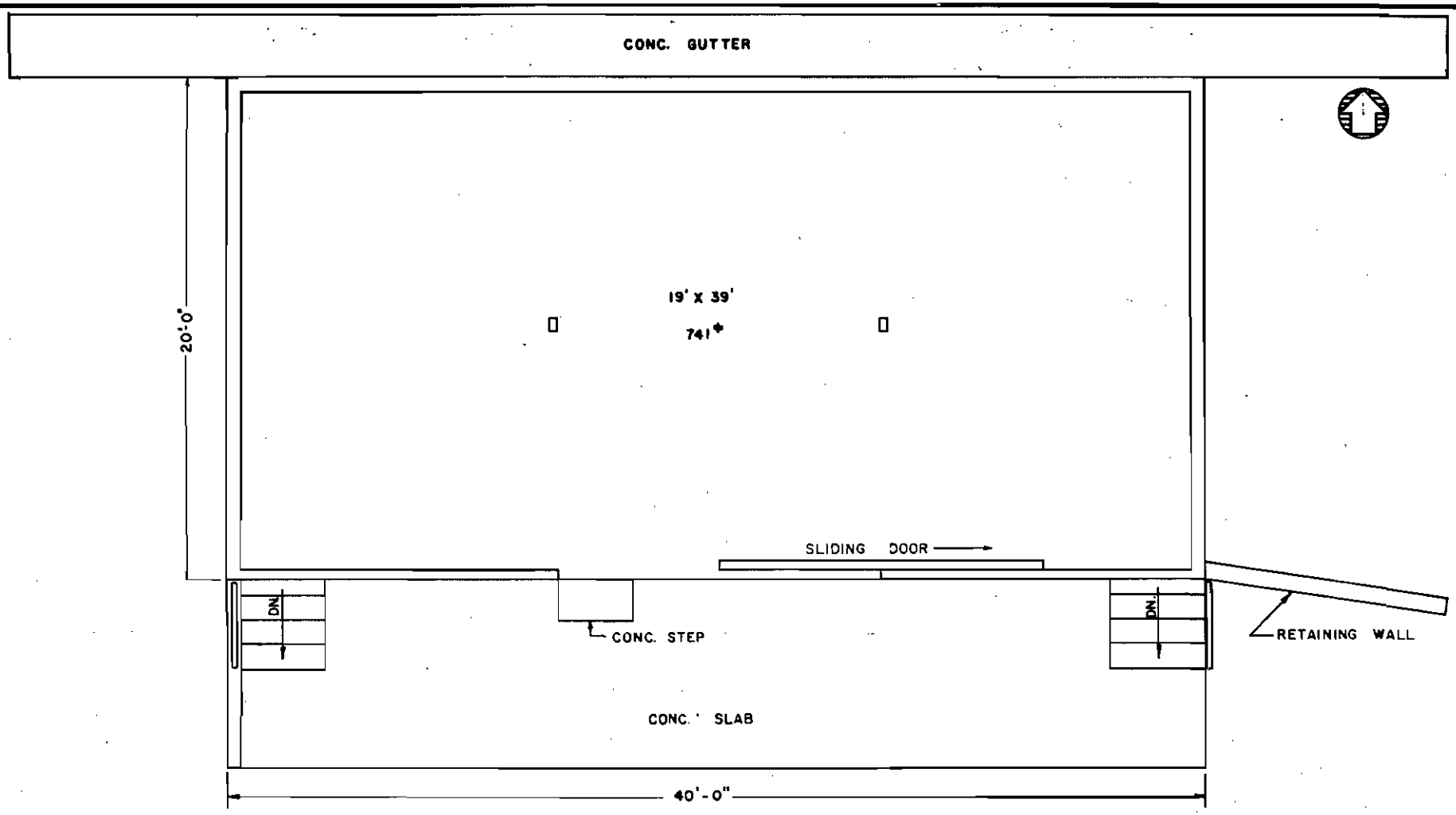
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

PERMANENT ARMAYING AREA STORAGE BLDG. 27
SLIDING DOOR INSTL.
BLDG. 27 TA-37

DRAWN	JFL	PROJECT ENGR.	
DESIGNED	JFL	DATE	12-29-88
ENGINEER		SHEET	1 of 1
SCALE	AS SHOWN		

ENG-C D 624

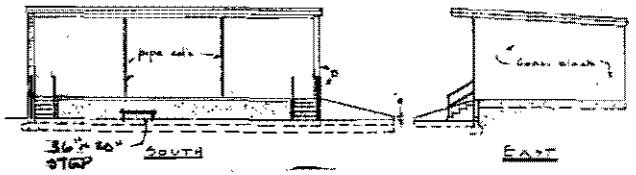
B.A. NO. _____ LAB. JOB NO. 5560



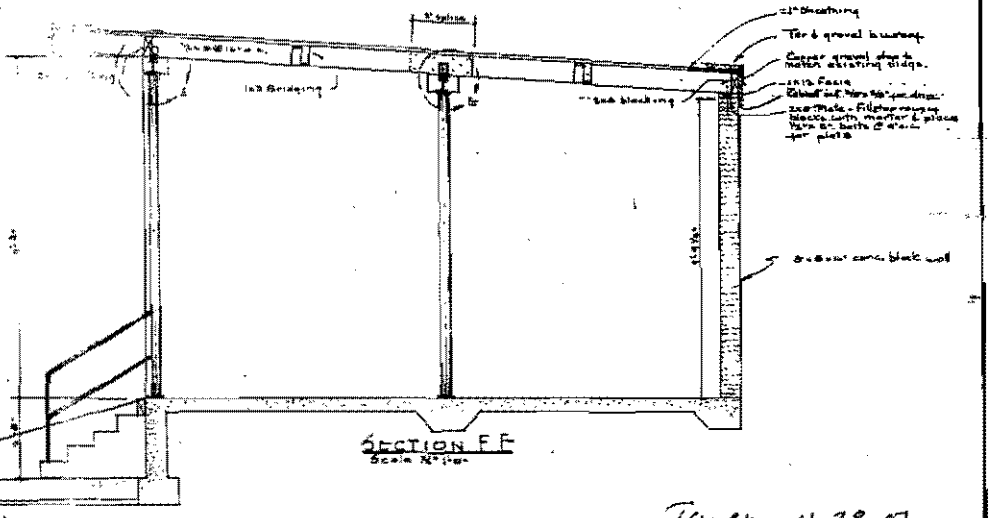
LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO		FLOOR PLAN BLDG MAC-27 TA-37	
APPROVALS: ENG. GROUP: 3 SER DIVISION: ENG. DEPT. OFFICE: JB	DESIGN: DESIGNER: WIMBERLEY PROJ. ENG.: JL Sizer TB	DATE 7-8-64 SHEET 1 OF 1	SCALE 1/4" = 1'-0" SKETCH NO. ENG.-R3102

TOTAL SQ. FT. 741

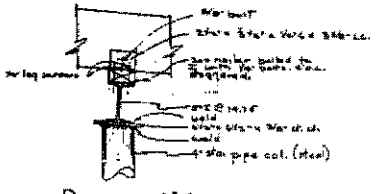
INFO SHOWN CURRENT AS OF 7-6-64 B. A. NO. J. O. NO. LAB. JOB NO.



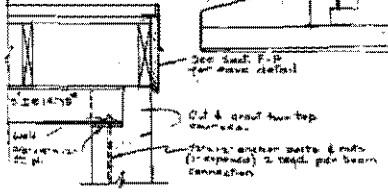
TYPICAL ELEVATIONS
Scale 1/4"=1'-0"



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



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



SECTION 'G-G'
(Gas vent pipe)
Scale 1"=1'-0"

Tawney 11-28-07

RECORD DRAWING—AS BUILT CONSTRUCTION

SUBMITTED	RECOMMENDED	APPROVED
POST CONSTRUCTION	A.E.C.	A.E.C.

THIS JOB MUST BE INSPECTED AND APPROVED BY ..... INSPECTOR

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CONSTRUCTION PROCEDURES:

The following sequence is recommended for grading operations in the performance of the work indicated hereon:

(a) That portion of the earthwork within the limits of the foundations and for a distance of at least five (5) feet beyond shall be excavated to a firm foundation.

(b) Any fill material required to bring the earth to finished grade shall be evenly distributed in horizontal layers not exceeding 6" compacted depth. For compaction details see note F.E. 7141.1, Spec. No. 5 of A-C 952.

(c) Excavation for building foundations shall be made subsequent to the completion of the compacted fill. All vertical faces of said excavation shall be maintained until the footings have been poured.

(d) Construction operations permitting, the slab and walls shall be poured monolithically. All backfill necessary above the elevation of the top of footings shall consist of bank run gravel or sand.

(e) Excavations for bldg. shall be dug to neat lines and filled in with 6" compacted layers of fill dirt.

DOES NOT CONTAIN
OFFICIAL USE ONLY
INFORMATION
Name/Org: Jill Hefele/S-7 Date: 7/25/07

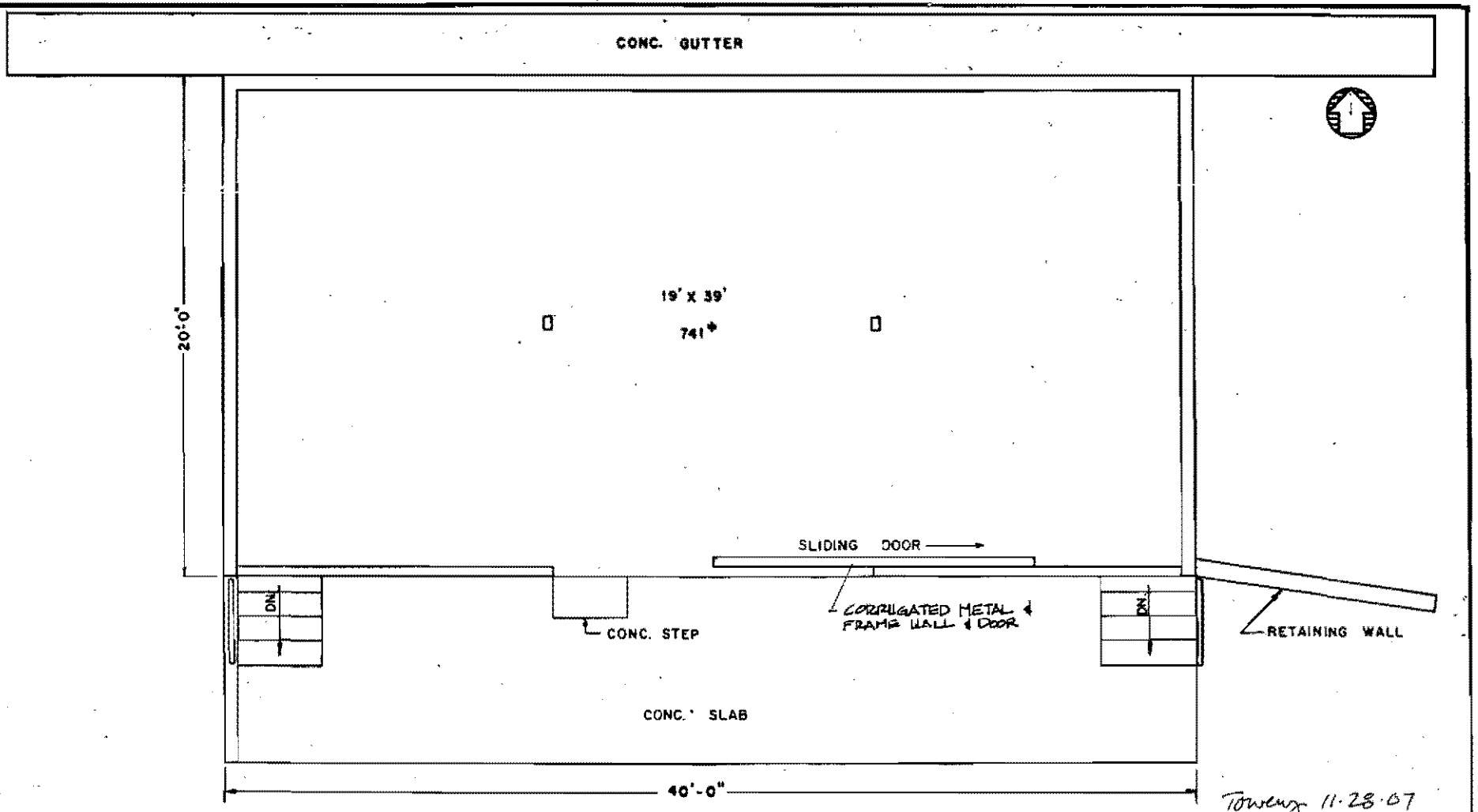
U. S. ATOMIC ENERGY COMMISSION
AREA AT OPERATIONS OFFICE
LOS ALAMOS, NEW MEXICO

BUILDING MAC-27
TA-37
ARCHITECTURAL DETAILS

LOS ALAMOS SCIENTIFIC LABORATORY
DEPARTMENT OF [illegible]
CONSTRUCTION & MAINTENANCE GROUP

3 | 4

Job No. 2964-C 3149



Towenz 11-28-07

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

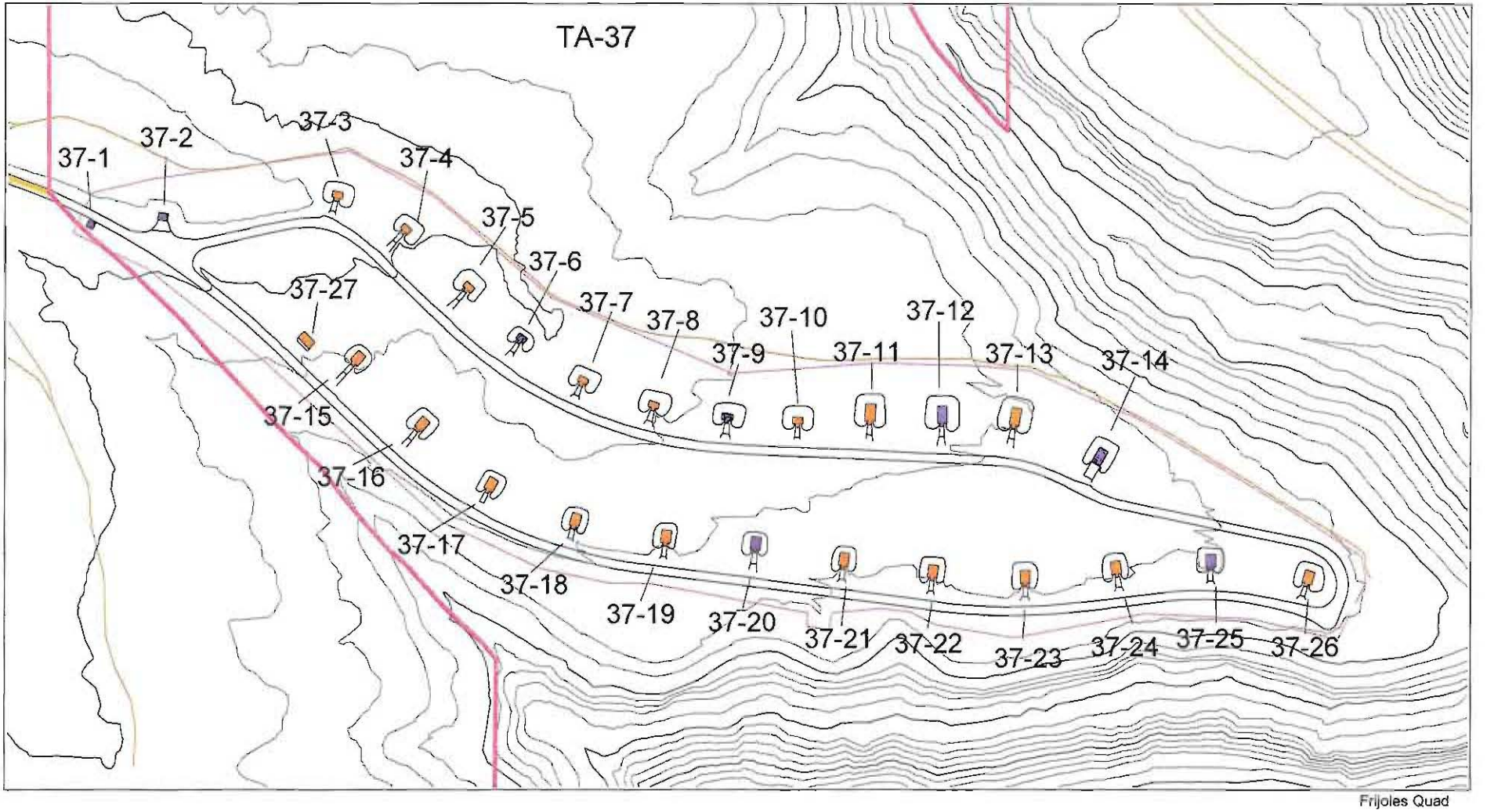
FLOOR PLAN
BLDG MAC-27 TA-37

APPROVALS:	DESIGN:	DATE	SCALE
ENG. GROUP: 3 SER	DESIGNER: WIMBERLEY	7-8-64	1/4" = 1'-0"
DIVISION:	PROJ. ENG.:	SHEET	SKETCH NO.
ENG. DEPT. OFFICE:		1 OF 1	ENG.-R3102

TOTAL SQ. FT. 741

INFO. SHOWN CURRENT AS OF 7-6-64 B. A. NO. J. O. NO. LAB. JOB NO.

Appendix B – Map Showing TA-37's Construction History and the Location of Eligible and Non-Eligible Properties



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

TA-37

(Built 1950)

Eligible and Non-Eligible

N
W E
S

Buildings Evaluated as Eligible
Buildings Evaluated as Non-Eligible
Tech Area 37
LANL Boundary
Technical Areas
Drainage
Township, Section, Range
USGS 7.5 Minute Quad
20 Foot Contours
100 Foot Contours
Roads
Dirt Roads
Fences

1:4500

200 0 200 400 Feet

60 0 60 120 Meters

Appendix B

Appendix C – Interview Information

Goldie, R.
1986 Notes from interview with Roger Goldie conducted by unknown person (ER program personnel?) dated Nov. 4, 1986. Subject: TAs 28, 29, and 37, on file at ENV-EAQ.

Goldie, R.
2007 Notes from informal interview with Roger Goldie, LANL, conducted by Judy Machen, IRM-CAS, on assignment to ENV-EAQ, on 19 October 2007 at S Site (TA-16). Subject: TA-37, Magazine Area C, on file at ENV-EAQ.

Rowan, R.
2007 Notes from site visit to TA-37 with Randy Rowan, WT-10, former TA-37 worker. Walkthrough with Kari Garcia, ENV-EAQ, on file at ENV-EAQ.

Appendix D – List of Drawings on File at LANL for Buildings at TA-37

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	1	C	1797	5	3		12-MAY-53	03-JUN-49	186	A	PLAN, ELEVATIONS AND DETAILS OF BLDG. 3701 (MAC-1), FLOR PLAN, CEILING AND ROOF FRAMING,
37	1	C	1802	10	1		12-MAY-53	05-AUG-52	186	S	STRUCTURAL LAYOUT, ALL MAGAZINES, TYPICAL DETAILS, ANCHORING STEEL WIRE CLOTH DETAILS
37	1	C	1803	11	1		12-MAY-53	12-AUG-52	186	C	GRADING, ALL MAGAZINES
37	1	C	1804	12	2		12-MAY-53	05-AUG-52	186	M	HEATING, PLUMBING, BLDG. 3701 (MAC-1), SCHEMATIC OF WATER SYSTEM PIPING. FLOOR PLAN,
37	1	C	1806	14	1		12-MAY-53	05-AUG-52	186	E	ELECTRICAL LAYOUT BLDG. 3701 (MAC-1), AIR TERMINAL LIGHTNING PROTECTION, ROOF FRAMING PLAN
37	1	C	1829	36	1		12-MAY-53	09-AUG-52	186	C	MAC-28, SEPTIC TANK DETAILS, BLDG. 3701 (MAC-1)
37	1	C	1830	37	1		12-MAY-53	09-AUG-52	186	C	PLAN - PROFILE, GAS, WATER & SEWAGE DETAILS, BLDGS. 3701 & 3702 (MAC I & 2)
37	1	R	3076	I	1		30-JUL-64	11-JUN-84	0	A	FLOOR PLAN, OFFICE BUILDING
37	1	R	4169	1	0		22-JAN-68	21-JUL-67	3586	A	AUDIO SYSTEM EQUIP. LOCATION, FLOOR PLAN
37	1	R	4170	1	0		22-JAN-68	17-AUG-67	3586	E	AUDIO SYSTEM BLOCK DIAGRAM
37	1	R	4171	2	0		22-JAN-68	17-AUG-67	3586	E	SPECIAL KEYING CIRCUIT
37	1	SK	1056	1	0		21-AUG-97	02-APR-51	779	A	VENETION BLIND INSTALLATION, GUARD HOUSES, ARCH; SCHEDULES, PLAN, MOUNTING DETAILS, PLATE DETAILS & NOTES
37	1	SK	1056	1	0		21-AUG-97	02-APR-51	779	A	Venetion Blind Installation, Guard Houses, TA-8,33,37,15,0

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	2	C	1798	6	2		12-MAY-53	03-JUN-49	186	A	PLANS, ELEVATIONS AND DETAILS, BLDG. NO. 3702 (MAC-2), CEILING AND ROOF FRAMING PLAN, PLAN
37	2	C	1805	13	1		12-MAY-53	05-AUG-52	186	M	HEATING, LAYOUT, BLDG. 3702 (MAC-2), FLOOR PLAN
37	2	C	1807	15	1		12-MAY-53	05-AUG-52	186	E	ELECTRICAL LAYOUT, BLDG. 3702, (MAC-2), AIR TERMINAL LIGHTNING PROTECTION, PLAN VIEW, ROOF FRAMING PLAN
37	2	R	3077	1	1		01-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE
37	2	SK	3568	1	0		09-JUN-50	09-JUN-49		A	SCHEMATIC DRAWING BLDGS 3702, FLOOR PLAN OFFICE AND BATCH ASSEMBLY

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	3	C	1799	7	2		12-MAY-53	03-JUN-49	186	S	308, NOW MAC-3 THRU MAC-10. PLANS & SECTIONS, STRUCTURAL LAYOUT, BLDGS 3703 TO 3710
37	3	R	3078	1	1		01-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	4	R	3079	1	1		01-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	5	R	3080	1	1		01-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	6	C	40812	15	2		26-MAY-73	15-NOV-73	5011	C	MAGAZINE DOCK REPLACEMENT PLANS, STRUCT; PLAN, SECTIONS & NOTES
37	6	C	40812	15	2		26-MAY-73	15-NOV-73	5011	S	MAGAZINE DOCK REPLACEMENT PLANS, STRUCT; PLAN, SECTIONS & NOTES
37	6	R	3081	1	1		01-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	7	C	40812	15	2		26-MAY-73	15-NOV-73	5011	C	MAGAZINE DOCK REPLACEMENT PLANS, STRUCT; PLAN, SECTIONS & NOTES
37	7	C	40812	15	2		26-MAY-73	15-NOV-73	5011	S	MAGAZINE DOCK REPLACEMENT PLANS, STRUCT; PLAN, SECTIONS & NOTES
37	7	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	7	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	7	R	3082	1	1		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	8	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	8	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	8	R	3083	1	0		01-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	9	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	9	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	9	R	3084	1	1		01-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	10	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	10	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	10	R	3085	1	0		01-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	11	C	27952	1	0		11-APR-63		2864	E	MAGAZINE HEATING, MAGAZINES MAC-11 & MAC-21, ELECTRICAL - PLAN, SCOPE & NOTES
37	11	C	27953	2	0		11-APR-63		2864	E	MAGAZINE HEATING, MAGAZINES MAC-11 & MAC-21, ELECTRICAL - DETAILS & MATERIAL
37	11	C	47833	1	0		20-SEP-92	16-SEP-75	5421	C	SIDEWALK, STEPS & DOCK REPAIR, STAIR DETAILS FOR BLDGS. 11, 17 & 25
37	11	R	3086	1	0		05-OCT-64	21-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	12	C	23668	1	1		23-NOV-60		2460	E	MAGAZINE HEATING FACILITIES, BLDGS. MAC-12,13 - ELECTRICAL - PLAN, SCOPE & NOTES
37	12	C	23669	2	1		23-NOV-60		2460	E	ELECTRICAL - BILL OF MATERIAL, WIRING
37	12	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	12	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	12	R	3087	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	13	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	13	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	13	R	3088	1	1		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	14	C	1800	8	3		12-MAY-53	03-AUG-52	186	S	STRUCTURAL LAYOUT, BLDGS. 3711 TO 3714, MAC-11 THRU MAC-14. PLANS & SECTIONS
37	14	C	19272	3	3		05-JUN-58		1855	E	MAGAZINE HEATING BLDGS. 14,22,23,24,25,26 - ELECTRICAL
37	14	C	34324	1	0		29-JUN-66		3436	S	RAMP AND DOOR MODIFICATION, BLDG. MAC-14 - STRUCTURAL - PLOT PLAN, DETAIL, SECTI
37	14	C	34325	2	0		29-JUN-66		3436	E	ELECTRICAL, RELOCATION OF DISTRIBUTION SYSTEM & EQUIPMENT
37	14	C	48521	1	0		22-JAN-93	17-JUL-72		T	TECH AREA RE-ROOFING, FY-73, TITLE SHEET AND INDEX OF DRAWINGS
37	14	C	48521	10	0		22-JAN-93	17-JUL-72		A	TECH AREA RE-ROOFING, FY-73, LOT-10, ARCH., ROOF PLAN-EXISTING FEATURES, SITE PLANS AND SECTIONS
37	14	R	3089	1	2		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	15	C	1801	9	3		12-MAY-53	03-AUG-52	186	S	STRUCTURAL LAYOUT, BLDGS. 3715 TO 3726, MAC-15 THRU MAC-26. PLANS & SECTIONS
37	15	R	3090	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	16	R	3091	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	17	R	3092	1	1		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	18	R	3093	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	19	C	36427	1	0		23-APR-68		3844	E	HEAT & LIGHT MAGAZINE, BLDG. MAC-19, ELECTRICAL POWER PLAN
37	19	C	36428	2	0		23-APR-68		3844	E	HEAT & LIGHT MAGAZINE, BLDG. MAC-19, ELECTRICAL PLANS & DETAILS
37	19	C	36429	3	0		23-APR-68		3844	E	HEAT & LIGHT MAGAZINE, BLDG. MAC-19, ELECTRICAL BILL OF MATERIAL, NAMEPLATES, SC
37	19	R	3094	1	1		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	20	C	26794	1	0		10-AUG-65		3243	E	HEATING & LIGHTING INSTALLATION MAGAZINE MAC-20, ELECTRICAL POWER PLAN
37	20	C	26795	2	0		10-AUG-65		3243	E	HEATING & LIGHTING INSTALLATION MAGAZINE MAC-20, ELECTRICAL PLANS & DETAILS
37	20	C	26796	3	0		10-AUG-65		3243	E	HEATING & LIGHTING INSTALLATION MAGAZINE MAC-20, ELEC.-BILL OF MATRL., NAMEPLATE
37	20	R	3095	1	1		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	21	R	3096	1	1		05-OCT-64	11-JUN-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	22	C	40812	15	2		26-MAY-73	15-NOV-73	5011	C	MAGAZINE DOCK REPLACEMENT PLANS, STRUCT; PLAN, SECTIONS & NOTES
37	22	C	40812	15	2		26-MAY-73	15-NOV-73	5011	S	MAGAZINE DOCK REPLACEMENT PLANS, STRUCT; PLAN, SECTIONS & NOTES
37	22	R	3097	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	23	R	3098	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	24	R	3099	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	25	C	36430	1	0		13-MAY-68		3845	E	ILLUMINATION IMPROVEMENTS, BLDG. MAC-25, ELECTRICAL
37	25	R	3100	1	2		05-OCT-64	06-MAR-84	0	A	FLOOR PLAN, MAGAZINE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	26	C	10511	1	3		12-DEC-56	04-DEC-56	1855	M	MAGAZINE HEATING, BLDGS. 14,22,23,24,25,26, MECHANICAL & EQUIPMENT LIST
37	26	C	10512	2	3		10-DEC-56	07-MAY-58	1855	E	MAGAZINE HEATING
37	26	R	3101	1	0		05-OCT-64	20-AUG-64	0	A	FLOOR PLAN

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
37	27	C	952	1	1		15-AUG-50	15-AUG-50	556	C	CIVIL - BLDG. MAC-27. PLOT PLAN
37	27	C	953	2	1		15-AUG-50	15-AUG-50	556	S	STURCT.- BLDG. MAC-27. FOUNDATION PLAN & DETS., & FLOOR PLAN
37	27	C	954	3	1		15-AUG-50	15-AUG-50	556	A	ARCH.- BLDG. MAC-27. ARCH. DETS. ELEVATION & SECTION
37	27	C	955	4	2		15-AUG-50	15-AUG-50	556	E	ELECT.- BLDG. MAC-27. ELECTRICAL PLAN
37	27	C	956	2	0		04-JUN-50		556	S	STRUCT.- BLDG. MAC-27. FOUNDATION PLAN & DETAILS. VOID
37	27	C	957	3	0		21-JUN-50	21-JUN-50	556	A	ARCH.- BLDG. MAC-27. FLOOR & ROOF PLAN. VOID
37	27	C	958	4	0		21-JUN-50	21-JUN-50	556	A	ARCH.- BUILDING MAC-27 SECTIONS AND DETAILS
37	27	C	8624	1	1		02-JAN-59		556	A	PERMANENT MAGAZINE AREA STORAGE BLDG., MAC-27, SLIDING DOOR INSTALLATION
37	27	R	3102	1	0		30-JUL-64	08-JUL-64	0	A	FLOOR PLAN

LA-UR-08-0845

High Explosives and the Nuclear Stockpile: An Assessment of Historic Buildings at Magazine Area C (TA-37)

Volume 2 – Archival Photographs and Index

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

VOLUME 2

Indexed Archival Photographs of National Register-Eligible Buildings 37-1 and 37-2 and Additional Views of Building 37-27

Los Alamos National Laboratory Historic Building Survey
Index to Photographs

Technical Area 37, "Magazine Area C" (MAC)
Technical Area 37, Buildings 1, 2, and 27
Los Alamos National Laboratory
Los Alamos
Los Alamos County
New Mexico

Notes: The Laboratory is divided into different geographic areas called Technical Areas (TAs). These TAs are designated by numbers. The properties at TA-37 (Magazine Area C) 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 (i.e., TA-37-1).

"Magazine Area C" located in TA-37 consists of 27 buildings, 24 magazines, a guard station, a small office/batch assembly building, and a storage building. These buildings were constructed in 1950 and 1951. Of the 27 buildings, eight are eligible for the National Register of Historic Places (Register): TA-37-1, -2, -6, -9, -12, -14, -20, and -25.

Two eligible buildings (TA-37-1 and -2) and six ineligible buildings are excess LANL properties and are scheduled for clean up and eventual demolition in 2008. This 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 these eight properties will be carried out by LANL's Decontamination and Decommissioning (D&D) Program.

Archival-quality, black and white photographs were taken of buildings TA-37-1 and -2. Additional views of TA-37-27 were taken even though the building was not determined eligible for the Register. (For additional information see related project documentation: *High Explosives and the Nuclear Stockpile: An Assessment of Historic Buildings at Magazine Area C (TA-37).*

Reference

U.S. Department of Energy
1994 *Environmental Restoration and Waste Management Five-Year Plan Fiscal Years 1994-1998.* DOE/S-00097P, U.S. Department of Energy, Washington, D.C.

Los Alamos National Laboratory Historic Building Survey
Index to Photographs

Technical Area 37, "Magazine Area C," TA-37-1, Guard Station
Los Alamos National Laboratory
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM August 27, 2007

RB07-013-013	TA-37-1, North side (front), facing south.
RB07-013-012	TA-37-1, East side, facing west.
RB07-013-014	TA-37-1, South side (back), facing north.
RB07-013-015	TA-37-1, West side, facing east.
RB07-013-016	TA-37-1, interior, facing southwest.

Los Alamos National Laboratory Historic Building Survey
Index to Photographs

Technical Area 37, "Magazine Area C," TA-37-2, Office/Batch Assembly Building
Los Alamos National Laboratory
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM August 27, 2007

RB07-013-007	TA-37-2, South side (front), facing north.
RB07-013-009	TA-37-2, East side, facing west.
RB07-013-010	TA-37-2, North side (back), facing south.
RB07-013-011	TA-37-2, West side, facing east.
RB07-013-017	TA-37-2, Room 1, facing north.
RB07-013-019	TA-37-2, Room 2, facing northwest.

Los Alamos National Laboratory Historic Building Survey
Index to Photographs

Technical Area 37, "Magazine Area C," TA-37-27, Storage Building
Los Alamos National Laboratory
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IRM August 27, 2007

RB07-013-001	TA-37-27, Southwest side (front), facing northeast.
RB07-013-002	TA-37-27, Southeast side, facing northwest.
RB07-013-003	TA-37-27, Northeast side (back), facing southwest.
RB07-013-004	TA-37-27, Northwest side, facing southeast.
RB07-013-005	TA-37-27, interior, facing southeast.
RB07-013-006	TA-37-27, interior, facing northwest.