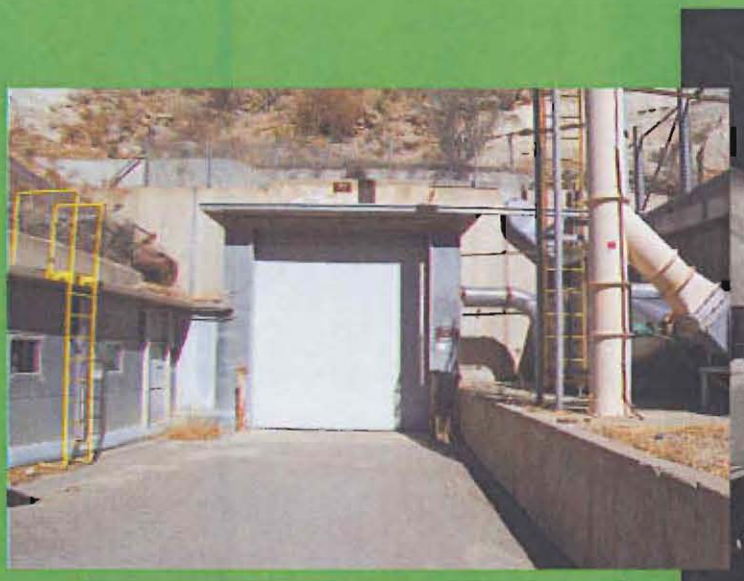
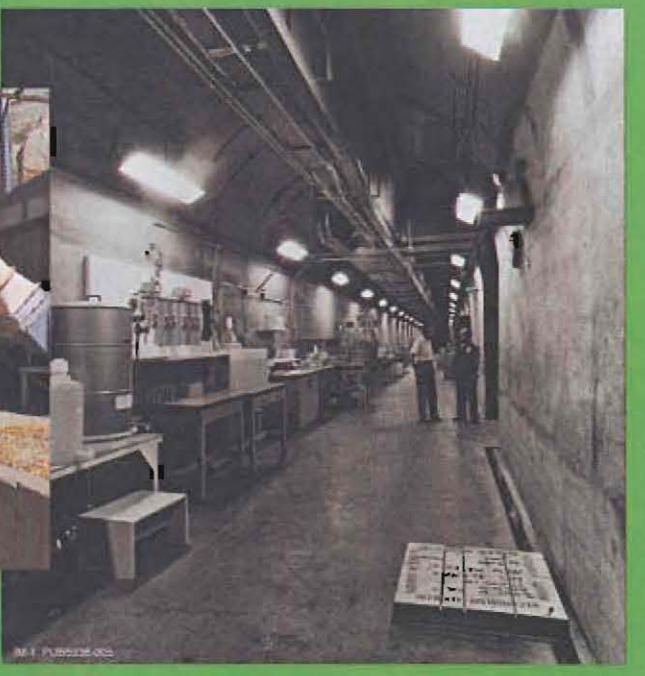
LA-UR-04-6492

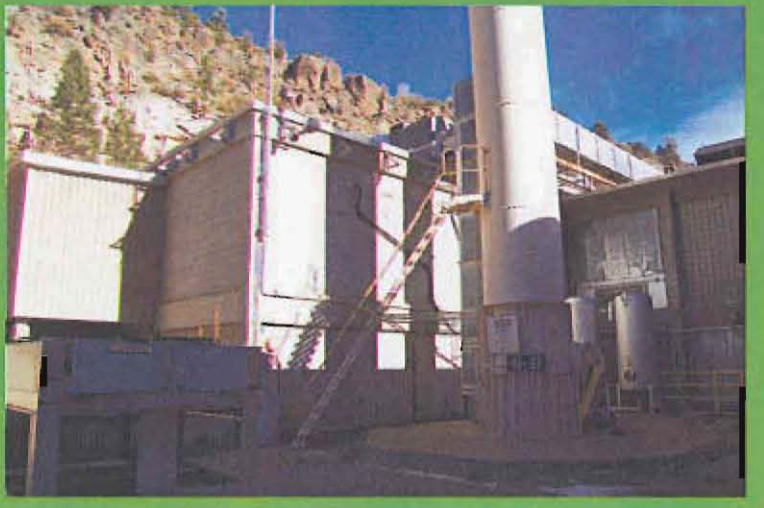
Historical Context of W Site, Technical Area 41

Volume 1





TA-41-1 "Tunnel and Vault"



TA-41-4 Laboratory

RRES-ECO Heritage Resources and Environmental Policy Compliance Team
Risk Reduction and Environmental Stewardship Division
LOS ALAMOS NATIONAL LABORATORY

LA-UR-04-6492

Historical Context of W Site, Technical Area 41

Historic Building Report No. 231

Los Alamos National Laboratory

September 10, 2004
Survey No. 887

Prepared for the
Department of Energy, National Nuclear Security Administration,
Los Alamos Site Office

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RRES-ECO Heritage Resources and Environmental Policy Compliance (HREPC) Team
Risk Reduction and Environmental Stewardship Division
LOS ALAMOS NATIONAL LABORATORY

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ACRONYMS

AEC – Atomic Energy Commission

LANL – Los Alamos National Laboratory

LASO – Department of Energy, National Nuclear Security Administration, Los Alamos Site Office

MOA – Memorandum of Agreement

NTS – Nevada Test Site

SHPO – State Historic Preservation Officer

TA – Technical Area

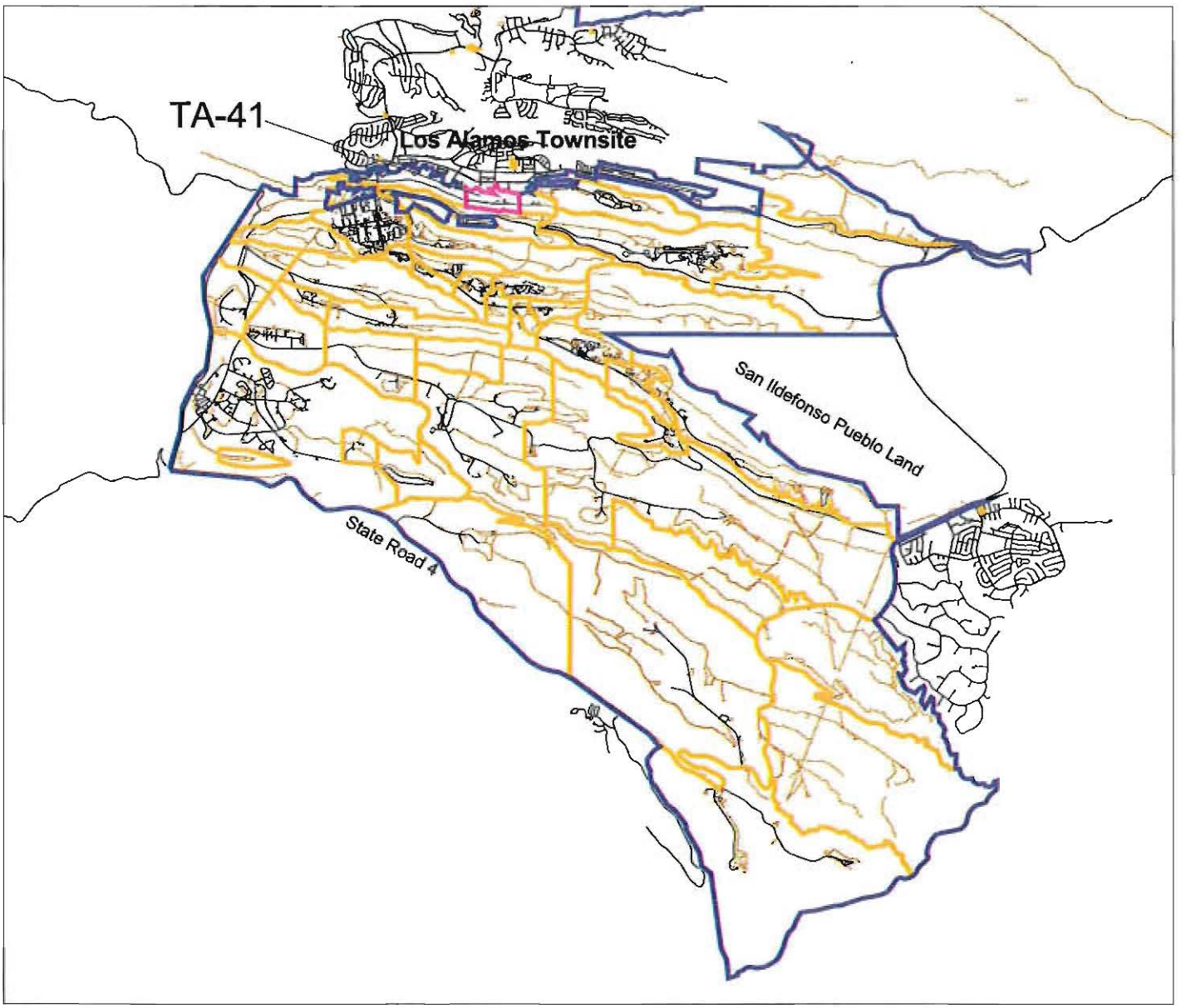
INTRODUCTION

The following documentation fulfills the terms set forth in a memorandum of agreement (MOA) between the Department of Energy, National Nuclear Security Administration, Los Alamos Site Office (LASO) and the New Mexico Historic Preservation Division regarding the demolition, modification, or abandonment of buildings and structures 1, 2, 3, 4, 6, 16, and 47 at Technical Area (TA) 41, Los Alamos National Laboratory (LANL). TA-41-1, -2, -3, -4, -6, -16, and -47 were determined eligible for the National Register of Historic Places under Criterion A in correspondence between the New Mexico State Historic Preservation Officer (SHPO) and LASO on May 22, 2002. The initial recommendations for eligibility are contained in a report written by LANL heritage resource managers (*Decontamination and Decommissioning of Technical Area 41*, Historic Building Survey Report No. 204, LA-UR-02-2663).

Work processes carried out at TA-41 supported Cold War weapons development and long-term studies of weapons subsystems from the late 1940s to the present (LANL 1993a:1-3). The main facilities at TA-41 were built between 1948 and 1951, and are located in Los Alamos Canyon, immediately south of the town of Los Alamos, New Mexico (Figure 1) (Maps 1 and 2). As part of LANL facility consolidation and revitalization activities, TA-41's operations were recently moved to Los Alamos's TA-16. The vacated laboratory and office facilities at TA-41 were identified as excess property and some of the buildings were scheduled for decontamination and decommissioning in accordance with LANL's responsibility for cleaning up inactive sites and facilities. The removal of properties at TA-41 became an even higher priority when it was determined that severe flooding in Los Alamos Canyon could cause catastrophic damage to buildings located within the new flood zone established after the May 2000 Cerro Grande fire. Of the properties included in the MOA, TA-41-16 and the office portion of TA-41-4 were eventually demolished. The high bay and rear laboratory portions of TA-41-4 were retained along with the vault (TA-41-1) and an associated guardhouse (TA-41-2). Three attached support structures (air intake TA-41-3, corridor TA-41-6, and exhaust stack TA-41-47) and some of the associated building utilities

(LANL, IM-9 Photography, #RN91-241-339)

Figure 1. TA-41, 1991



Los Alamos
National Laboratory
Heritage Resources and
Environmental Policy Compliance Team
RRES-ECO Ecology Group

1:110000

4000 0 4000 8000 12000 16000 Feet

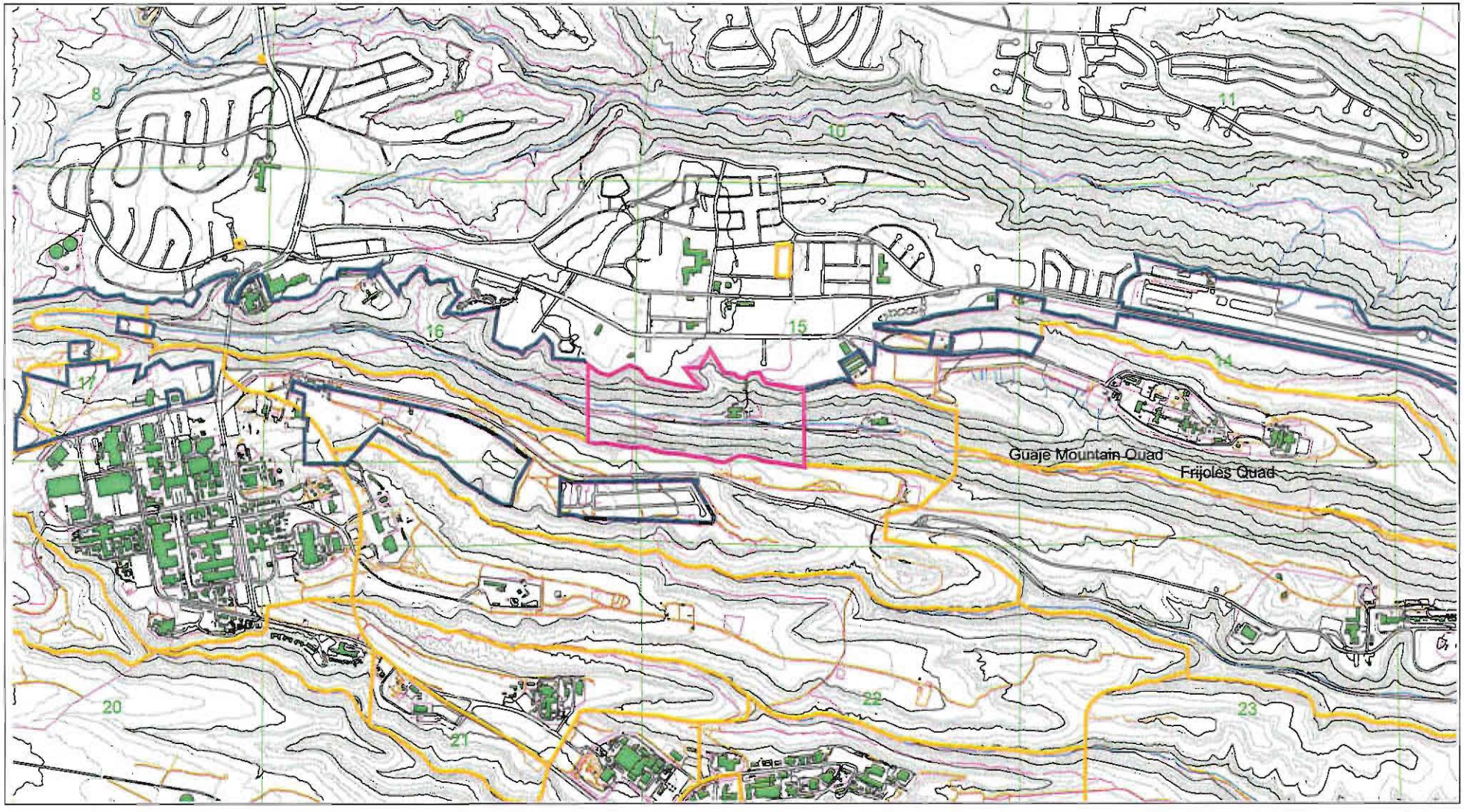
1000 0 1000 2000 3000 4000 Meters

N
W E
S

Tech Area 41
LANL Boundary
LANL Tech Area Boundary
Roads
Roaddirt
Parkpave
Parkdirt

TA-41

Map 1



Los Alamos
National Laboratory
Heritage Resources and
Environmental Policy Compliance Team
RRES-ECO (Ecology Group)

TA-41

N
W E
S

Map 2

Technical Area 41
LANL Boundary
LANL Technical Areas
Buildings/Structures
20 Foot Contours
100 Foot Contours
Drainage
Township, Section, Range
USGS 7.5 Minute Quad
Trails
Roads
Roaddirt
Parkpave
Parkdirt
Fences

1:24000

900 0 900 1800 2700 Feet

300 0 300 600 900 Meters

were also retained (Maps 3 and 4).

As per the terms of the MOA, finalized on July 16, 2002, this report includes a history and description of TA-41. Appendices to Volume 1 include historic building inventory forms with representative photographs and building drawings (Appendix A), maps showing TA-41's construction history and the location of eligible and non-eligible properties (Appendix B), oral interview information (Appendix C), and a complete listing of building drawings on file at LANL (Appendix D). A set of indexed archival photographs is included in Volume 2.

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.

Los Alamos
National Laboratory
Heritage Resources and
Environmental Policy Compliance Team
RRES-ECO (Ecology Group)

TA-41

Before Demolition

N
W E
S

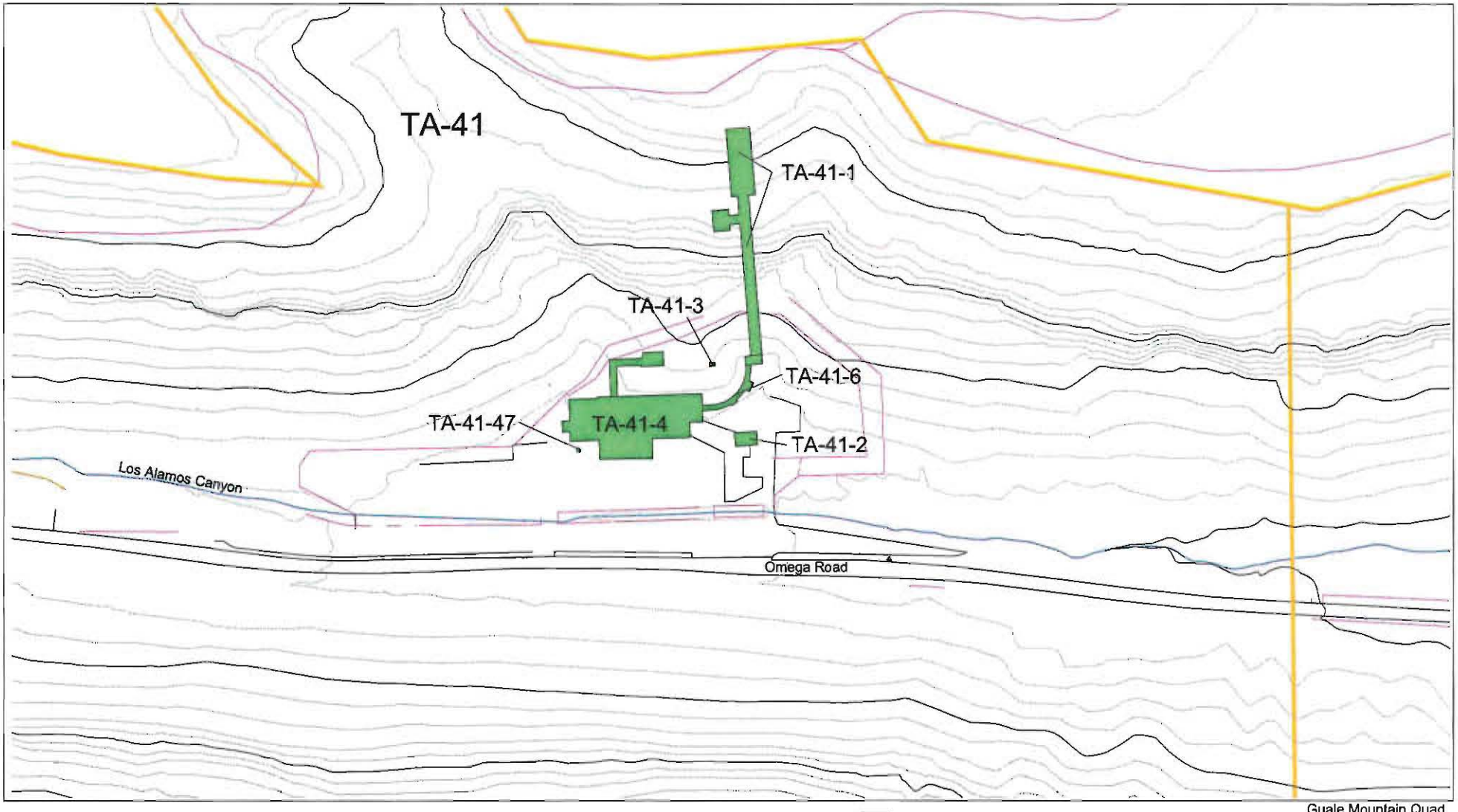
Map 3

Buildings/Structures
Removed Buildings/Structures
20 Foot Contours
100 Foot Contours
Techarea
Drainage
Township, Section, Range
USGS 7.5 Minute Quad
Trails
Roads
Roaddirt
Parkpave
Parkdirt
Fences

1:2500

100 0 100 200 300 Feet

30 0 30 60 90 Meters



Los Alamos
National Laboratory
Heritage Resources and
Environmental Policy Compliance Team
RRES-ECO (Ecology Group)

TA-41
After Demolition

N W E S

Map 4

Buildings/Structures
20 Foot Contours
100 Foot Contours
Techarea
Drainage
Township, Section, Range
USGS 7.5 Minute Quad
Trails
Roads
Roaddirt
Parkpave
Parkdirt
Fences

1:2500

100 0 100 200 300 Feet

30 0 30 60 90 Meters

Oppenheimer and his staff moved to Los Alamos in early 1943 to begin work. The recruitment of the country's "best scientific talent" and the construction of technical buildings were top priorities (LANL 1995:8). The University of California agreed to operate the site, code name "Project Y," under contract with the government (an arrangement that has continued to this day). Although the fission bomb was conceptually attainable, many difficulties stood in the way of producing a usable weapon. Technical problems included timing the release of energy from fissionable material and overcoming engineering challenges related to producing a deliverable weapon. Nuclear material and high explosive studies were of immediate importance (LANL 1995).

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

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

device, was exploded over the Japanese city of Hiroshima on August 6, 1945. On August 9, 1945, Fat Man was exploded over Nagasaki, essentially ending the war with Japan.

Early Cold War Era (1946–1956)

The future of the early Laboratory was in question after the end of WWII. Many scientists and site workers left Los Alamos and went back to their pre-war existences. Norris Bradbury had been appointed director of the Laboratory following Oppenheimer's return to his pre-WWII duties (LANL 1993b). Bradbury felt that the nation needed "a laboratory for research into military applications of nuclear energy" (LANL 1993b: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 the atmospheric testing program in the Pacific, dubbed "Operation Crossroads." Later, also in 1946, the U.S. Atomic Energy Commission (AEC) was established to act as a civilian steward for the new atomic technology born of WWII. The AEC formally took over the Laboratory in 1947, making a commitment to retain Los Alamos as a permanent weapons facility.

With the beginning of the Cold War—the term "Cold War" was first coined in 1947—weapons research once again became a national priority. Weapons research at Los Alamos, spearheaded by Edward Teller and Stanislaw Ulam, focused on the development of the hydrogen bomb, the feasibility of which had been discussed seriously at Los Alamos as early as 1946. The simmering Cold War came to a full boil in late 1949 with the successful test of "Joe I," the Soviet Union's first atomic bomb. In January of 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 first 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 device, known as "Mike," was detonated at Enewetak Atoll[1] in the Pacific (LANL 1993b). In short order, the Soviet Union responded with a successful demonstration of the use of fusion 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 early advancements in supercomputing, fundamental biomedical research and health physics issues, explosives research and development, early reactor technology, pioneering physics research, and the development of early high-speed photography (McGehee and Garcia 1999). The Early Cold War era at Los Alamos ended in 1956, a date that marks the completion of all basic nuclear weapons design at LANL; later research at Los Alamos focused on the engineering of nuclear weapons to fit specific delivery systems. The year 1956 was also the last year that Los Alamos was a closed facility—the gates into the Los Alamos 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 using satellite sensors to detect nuclear explosions), research and development of space-based weapons, and continued involvement with stockpile stewardship issues. Non-weapons undertakings supported nuclear medicine, genetic studies, NASA collaborations, superconducting research,

[1] A better understanding of the Marshall Islands language has permitted a more accurate transliteration of

contained fusion reaction research, and other types of energy research (McGehee and Garcia 1999).

HISTORICAL CONTEXT OF TECHNICAL AREA (TA) 41, W SITE (1948–2002)

General Overview and Facility Description

The main period of significance for TA-41 covers the years between 1948 and 1992. Several groups have occupied portions of TA-41 over the years; most, however, were part of W Division, later WX Division. The activities conducted at this technical area directly contributed to Cold War weapons research and development at Los Alamos. Most importantly, the TA-41 facility supported all of the above- and below-ground nuclear tests in which Los Alamos has played a role since the late 1940s. Group responsibilities have encompassed the transportation of components to NTS, gas transfer work involving operations at both TA-33 (Building 33-86) and TA-41, and weapons subsystems design and testing. Weapons subsystems development included work on boosting systems and long-term studies on critical weapons subsystems (U.S. Department of Energy 1986, LANL 1993a:3-10).

Two of the most significant facilities at TA-41, the tunnel and main storage vault (TA-41-1) and the "Ice House" (TA-41-4), provided the DOE with facilities for testing, monitoring, assembling, and storing nuclear weapons components. During the earliest years of the Cold War (circa late 1940s to early 1950s), the nation's stockpile of nuclear weapons were stored in the TA-41-1 vault and were shuttled back and forth to Sandia Base in Albuquerque (then an airfield under the control of Los Alamos's Z Division) (Larson 2003). From 1954 to 1973, isotopic analyses of NTS samples containing uranium and plutonium were performed at TA-41. This work was conducted using mass spectrometers located on the bottom floor of TA-41-4 (LANL 1993a). Testing of various types of weapon components using high pressure was conducted at TA-41-4 from 1960 to 2002. High pressure testing and leak testing were performed to determine component integrity and leak rate at elevated internal pressures. Other non-weapon pressure and leak

Marshall Island names into English. Enewetak is now the preferred spelling (formerly Eniwetok).

testing was carried out at TA-41 in support of a wide range of Laboratory programs. High pressure and leak determination expertise and technology primarily resided at TA-41 until 2002 (Larson 2002).

TA-41 and the Nation's Nuclear Stockpile

A primary goal of the American nuclear establishment in the early Cold War years was not only to produce more powerful bombs, but also to develop bombs that were more reliable. Immediately after the end of WWII, Los Alamos researchers worked to improve various aspects of the weapons designs used in the Trinity test and over Hiroshima and Nagasaki. For example, both the Little Boy and Fat Man bombs were aerodynamically unstable at high speeds, an instability that could cause the weapons to wobble and miss their targets (Gibson 1996). This post-war weapons engineering and assembly work soon moved out of the confines of Los Alamos to an airbase in nearby Albuquerque, New Mexico.

Sandia Base (later Sandia National Laboratories) began life as part of Los Alamos's wartime operations, later evolving into a separate Cold War installation. Formed in July 1945 as Z-Division within Los Alamos, its primary duties were to perform the ordinance engineering and assembly aspects of Los Alamos's design work (Ullrich 1998). Z-Division was located in Albuquerque because J. Robert Oppenheimer and other Manhattan Project officials realized the need to move some of the weapons production activities to a less isolated area, one preferably near existing military facilities. The desert near Albuquerque was a perfect place for these former Los Alamos operations: Sandia Base was near enough to Los Alamos for scientists to move from one facility to the other fairly quickly and was close enough to Albuquerque to tap into city utilities. Between 1945 and 1947, Z-Division moved its testing, development, and bomb assembly operations to Sandia. As early as 1947, Sandia Base was responsible for military-assisted assembly, testing, and maintenance of the country's atomic weapons. The Mk IV was one of the early production designs. This first-generation atomic device required in-flight assembly and was stored without its nuclear "core." During the late 1940s, the fissile

material for these early types of weapons was stored at Los Alamos. As necessary, Sandia shuttled the nuclear material back and forth from the TA-41 vault. After a few years, Sandia Base built its own fissile material storage area or "Q" area in the nearby Manzano Mountain foothills and discontinued its use of the vault facility at Los Alamos (Larson 2004).

Weapons Storage Sites and the Role of Black and Veatch

In order to carry out its primary Cold War mission to maintain the capability of launching a nuclear attack, the U.S. government needed a stockpile of weapons with associated storage and assembly sites. These sites came to be known as Q Areas because of the AEC's stringent security requirements for entry. Sandia controlled the initial management of Q Areas and at least three main stockpile sites were developed by 1950: Site Able in New Mexico (Manzano Base), Site Baker in Texas (Killeen Base) and Site Charlie in Kentucky (Clarksville Base). The Manzano stockpile facility, which would eventually subsume the TA-41 operations, was partially operational by 1949 (Gray *et al.* 1998).

The engineering firm of Black and Veatch of Kansas City designed the primary structures for all of the early Q Areas, including the first stockpile vault structure at TA-41. One of the firm's partners, Thomas Veatch, was a long time acquaintance of President Harry Truman, and the firm quickly established itself as the leader in the design of special weapons storage facilities during Truman's post-war years in office.

TA-41 and the Development and Testing of the Hydrogen Bomb

TA-41 also supported the nation's goals of producing increasingly powerful nuclear weapons, particularly the development of the hydrogen bomb or "Super." Los Alamos (and specifically TA-41) has had a close relationship with NTS since its origins in the early 1950s. As the race to produce a hydrogen bomb sped forward, TA-41 provided the AEC with facilities for testing, monitoring, assembling, and storing nuclear weapons

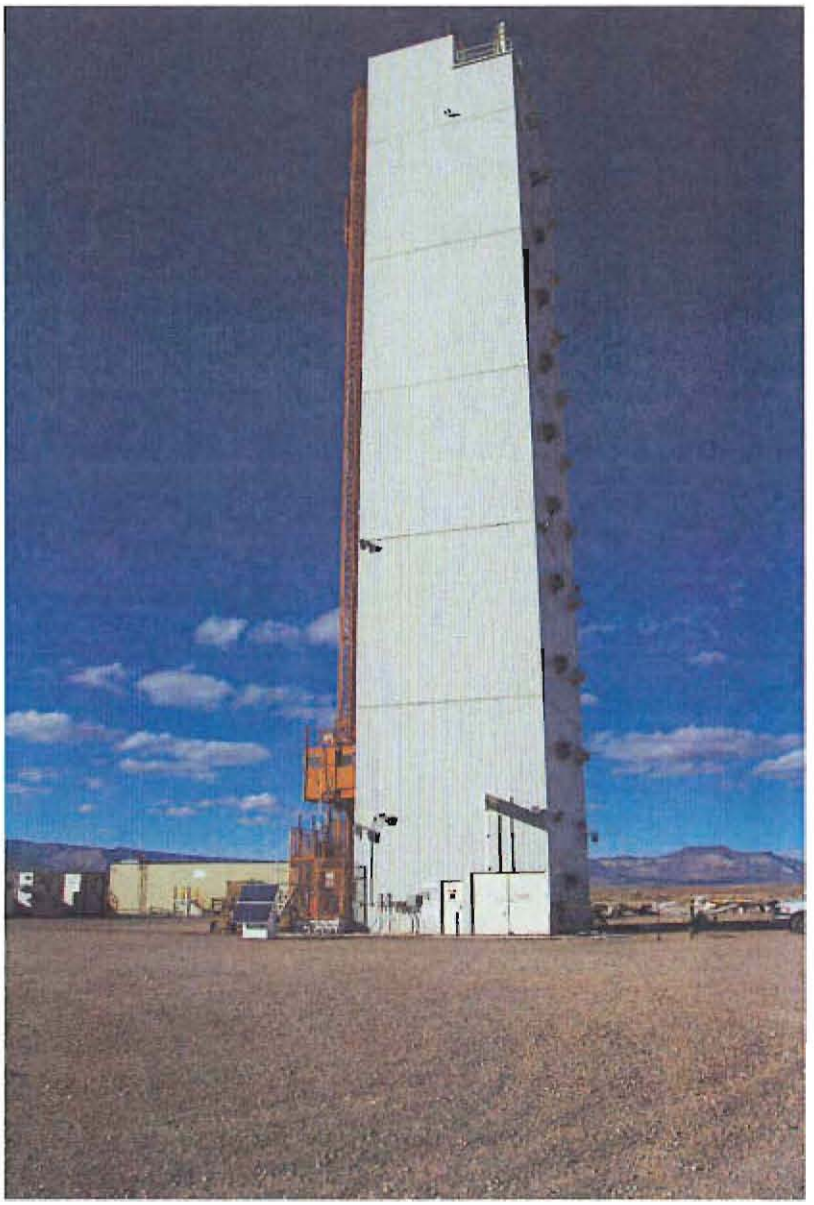
components. These capabilities proved very useful once Los Alamos scientists and the American military began testing nuclear devices at Nevada in 1951.

Post-war American nuclear tests took place in the Pacific beginning in 1946 with "Operation Crossroads." Los Alamos provided the key scientific research for these tests. By the mid 1950s, however, the United States decided to abandon the Pacific tests for several reasons, one of which was the remote nature of the test sites. When the AEC began its search for a continental test site, Los Alamos Director Norris Bradbury indicated his preference for an area northwest of Las Vegas, Nevada, because of its relatively sparse population and flat terrain (Figure 2). In 1950, the AEC chose NTS as the federal government's nuclear testing ground (Fehner and Gosling 2002). During the early 1950s, NTS essentially operated as a testing ground for Los Alamos nuclear designs. Los Alamos officials pressed for the site, Los Alamos scientists developed the weapons and conducted the tests, and Los Alamos workers analyzed samples taken after the tests.

(LANL, RRES-ECO/HREPC, #DCP_0229)

Figure 2. Nevada Test Site

Between 1951 and 1992, the United States conducted 928 tests at the Nevada facility (Fehner and Gosling 2002). TA-41 played an important role in many of these tests. TA-41 personnel developed components that were used in both above- and below-ground tests, and scientists who worked at TA-41 also traveled to Nevada to participate in the actual shots (Figure 3).



(LANL, RRES-ECO/HREPC, #DCP_0254)

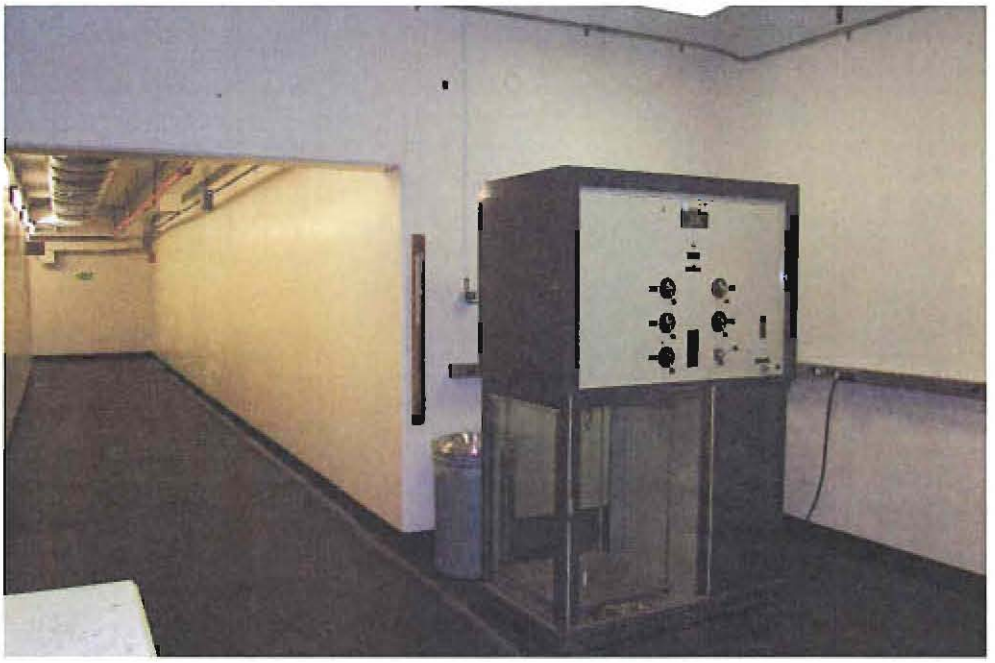
Figure 3. "Icecap" Aboveground Test at NTS (Joint Los Alamos and British Test)

TA-41 and the Gas Handling Facility at TA-33

At Los Alamos, TA-41 operations were closely linked to tritium operations at TA-33. TA-33-86, the Gas Handling Facility, began operations in June of 1955. It was the first facility at LANL to handle larger quantities of tritium gas for Los Alamos's nuclear weapons development program. Workers at the Gas Handling Facility repacked the gas into small-volume high-pressure vessels or "gas containers" that were used in several weapons systems and devices tested at NTS (Ziemer 1991, Estrada 1998). Gas transfer work at TA-33 directly supported operations at TA-41 and the same W Division employees worked at both facilities (Larson 2003).

The Icehouse – TA-41-4

During the period of Nevada testing, 30 to 35 people worked in the icehouse, producing one shot a month. The north portion of the icehouse and the vault had restricted access, and for this reason, an icehouse exclusion zone was established, complete with a guard checkpoint on the inside of the building. The north wing of the icehouse building was assembly space: the south half of the wing was used for production and the north half was used for inspection. Room 244, the "low-interference count room," is located at the end of the icehouse's tunnel addition and contains a balance block and two balances. The older balance weighed all of Los Alamos's Nevada and Pacific shots (Figure 4). The balance was moved to the icehouse from a Ranch School-era icehouse building at Ashley Pond. The original icehouse (TA-41-4's namesake) stored plutonium and enriched uranium and was used as an assembly area during the Manhattan Project and early Cold War years. The original icehouse door was brought to TA-41 and used on the day vault inside TA-41-4 (Figure 5). The door was later sent to the salvage yard but the lock and handle have been saved (Larson 2001).



(LANL, RRES-ECO/HREPC, #DCP_0834)

Figure 4. Room 244 and the Older Balance, December 2001

(LANL, RRES-ECO/HREPC, #DCP_0838)

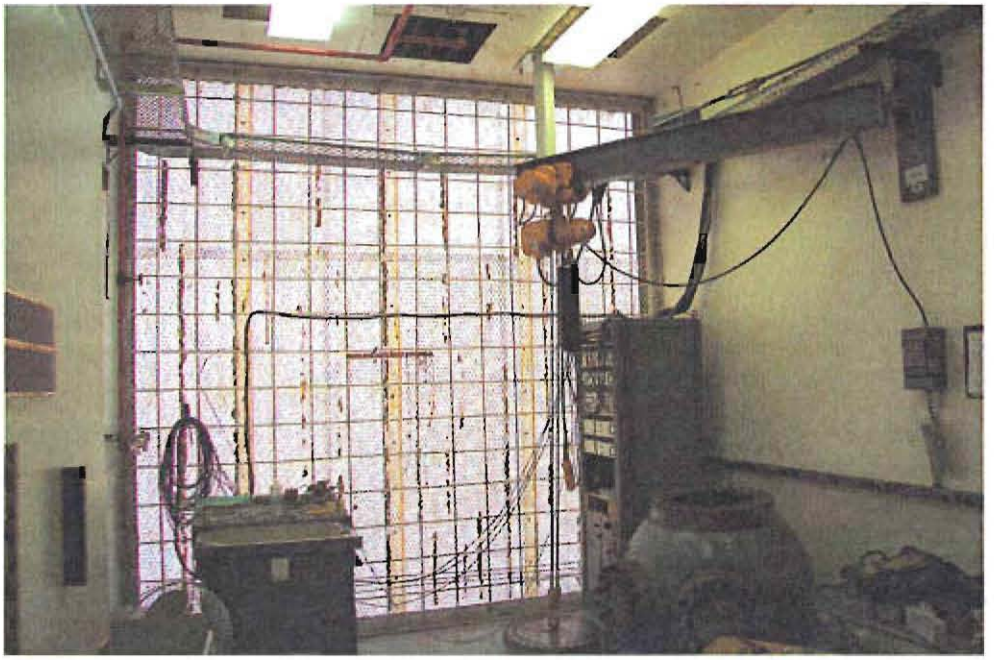
Figure 5. Day Vault in Building TA-41-4 (with new door), December 2001

The "Annex," located on the west side of the north wing, was used for high pressure testing. The pressure compressors for the high pressure testing cells are located in the

Annex, in an adjacent room to the pressure vessels (Figure 6). Rectangular pressure vessels were called "coffins" and spherical ones were given the name "blue balls" (Figure 7).

(LANL, RRES-ECO/HREPC, #DCP_0851)

Figure 6. Pressure Compressors in the Annex, December 2001

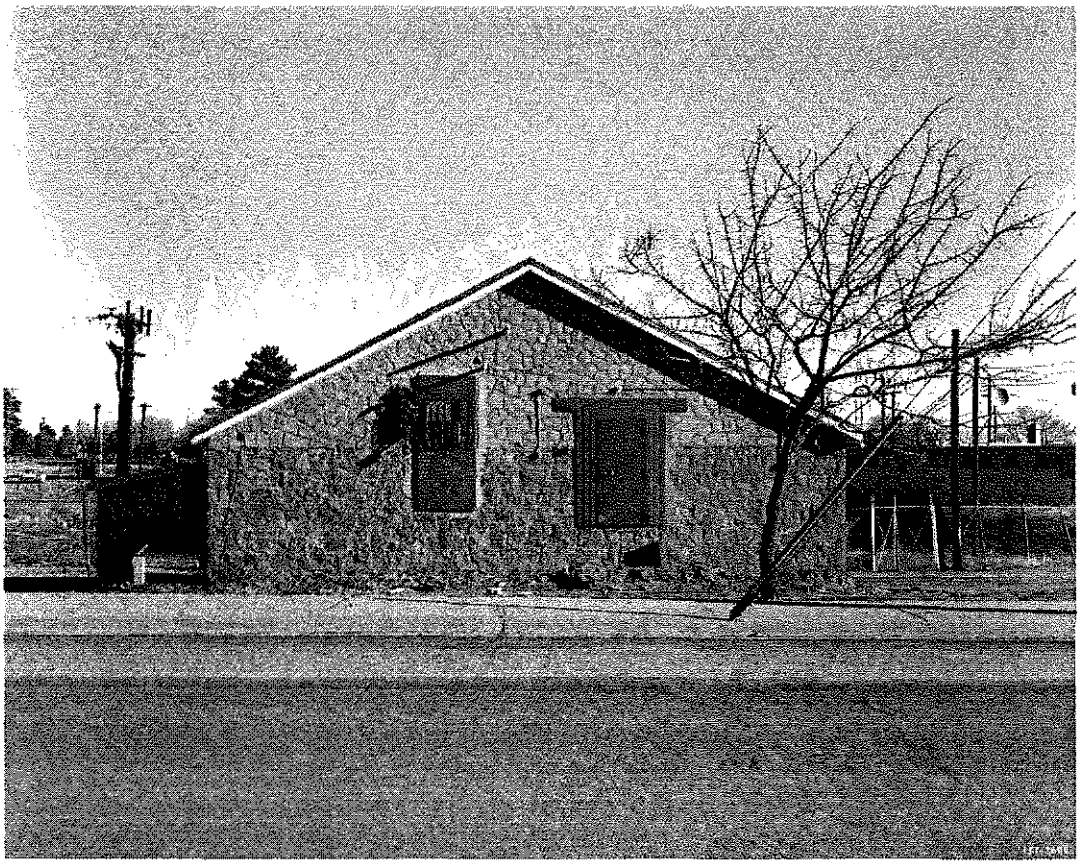


(LANL, RRES-ECO/HREPC, #DCP_0852)

Figure 7. Pressure Vessels – "Coffin" (at left) and "Blue Ball" (at right), December 2001

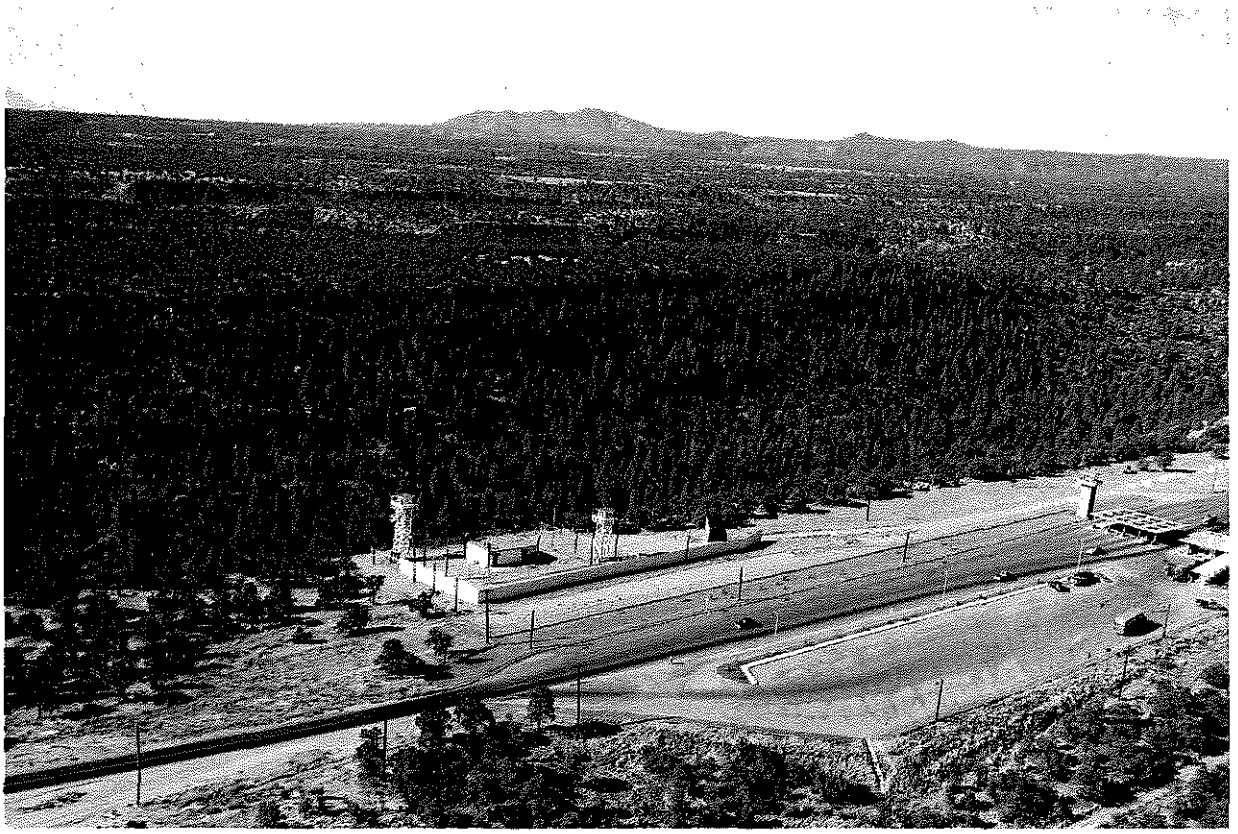
The Tunnel – TA-41-1

The tunnel is lined with concrete and extends approximately 250 feet into the north side of Los Alamos Canyon. The tunnel complex is more than 6,000 square feet in size, and the main tunnel corridor was designed to be large enough to accommodate a delivery vehicle. The tunnel and vault were built to replace the D Site Vault at TA-26 and also to take on the storage functions of the original icehouse at the pond (Figure 8). TA-26 was located along the main road to Los Alamos, east of the airport area near the East Gate. Facilities included several standard guard towers and a concrete vault for storing nuclear material (LASL 1964) (Figure 9).



(LANL, IM-9 Photography, #LAT-2689)

Figure 8. The Original Icehouse Building



(LANL, IM-9 Photography, #15924)

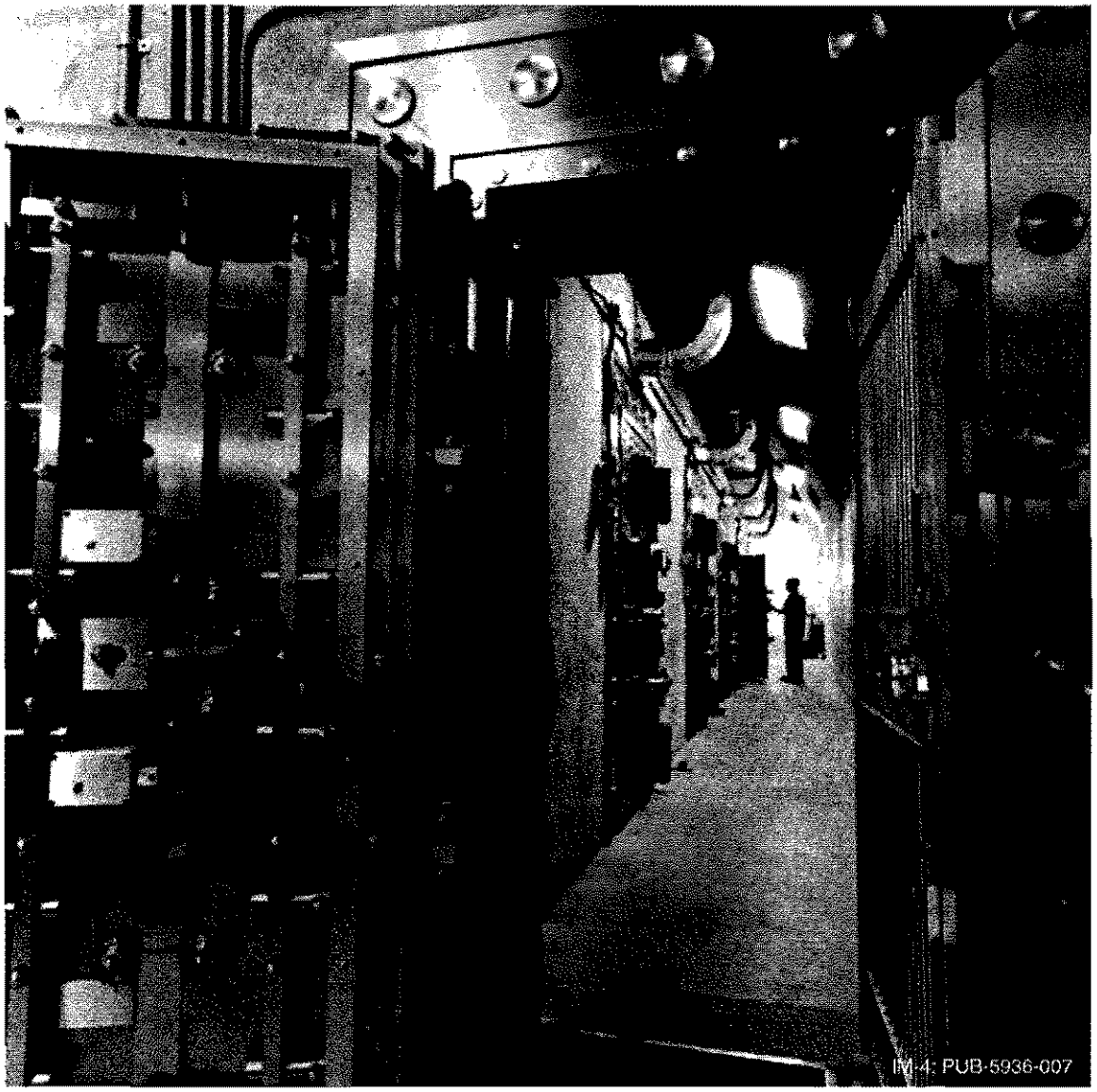
Figure 9. TA-26 and the D Site Vault, 1950

The new tunnel and vault at TA-41 took almost a year to build (it was under construction from June 1948 to May 1949). It was designed to have controlled humidity (around 50 percent) and temperature (between 40 and 60 degrees) with redundant sources of light and power, including an emergency battery supply and a standby diesel-powered electric generator. The tunnel and vault area, along with associated security features and a new guard station, cost about $500,000 to build (LASL 1964) (Figure 10).

(LANL, IM-9 Photography, #15930)

Figure 10. TA-41-1 (vault) and TA-41-2 (guard house), circa 1950

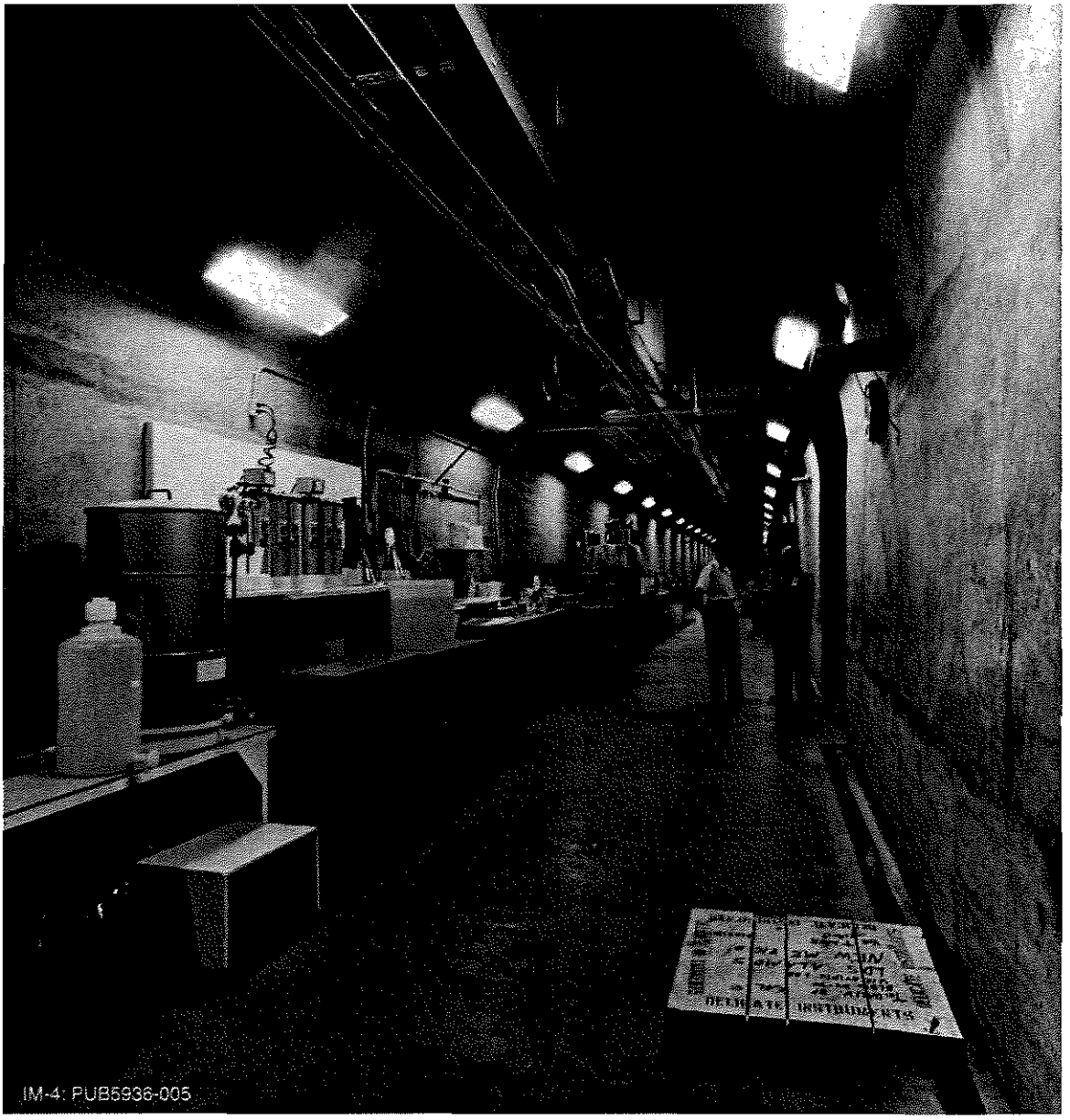
A locked vault area is located at the end of the main tunnel passageway. Individual walk-in vaults are located inside the main bank vault-type door (Figure 11). Each walk-in vault, in turn, can be kept locked for additional access control (LASL 1964).



(LANL, IM-9 Photography, #PUB-5936-007)

Figure 11. Main Vault Door and Interior Walk-In Vaults

Both TA-41-4 (the ice house) and TA-41-1 (the tunnel and vault) were designated as fallout shelters; the shelter area in the tunnel could support over 200 people for two weeks (Larson 2001 and LASL 1964). The tunnel corridor and rooms are well shielded against naturally occurring background radiation making it a desirable location for pure physics experiments (LASL 1964) (Figure 12). Initial experiments associated with Frederick Reines and Clyde Cowan's Nobel Prize winning neutrino research were conducted in the tunnel passageway for this very reason (Plassmann 2003).



(LANL, IM-9 Photography, #PUB-5936-005)

Figure 12. The Main Tunnel Corridor

Los Alamos Neutrino Experiments

In 1951, Reines and Cowan began experimenting at Los Alamos with the goal of observing neutrinos, a type of fundamental particle with no electric charge and little or no mass. Before Reines and Cowan began their study of the neutrino (a study they dubbed "Project Poltergeist"), other scientists had only hypothesized its existence. However, the

advent of neutrino sources, such as fission bombs and reactors, opened up greater possibilities for detection (LANL 1997).

The work of Reines and Cowan is an excellent example of the collaborative nature of the work done within the country's complex of national laboratories. The two scientists began their work at Los Alamos's TA-41, using the tunnel and vault at TA-41-1 because the facility was well shielded from background radiation that could skew the results of their experiments. After a year of research at Los Alamos, Reines and Cowan decided that using a fission reactor was the best way to observe neutrinos. They moved their research to Hanford in Washington and began to see preliminary results. In 1953, they learned of a new reactor being built at the Savannah River site in South Carolina and ultimately moved their experiments there in 1955. One year later, in 1956, Reines and Cowan observed the neutrino and proved its existence (The Nobel Foundation 2004).

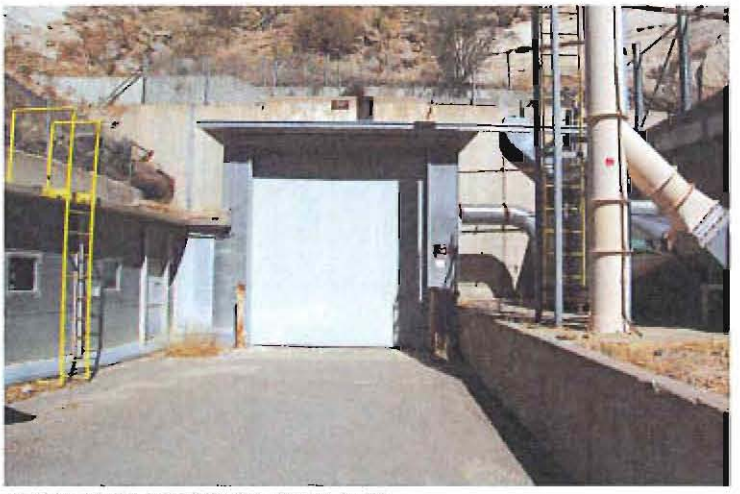
Reines and Cowan soon parted ways. Cowan left Los Alamos once the neutrino experiments were finished. Reines left in 1959, choosing to continue his work with neutrinos at Savannah River. Cowan died in 1974 after serving as a professor at the Catholic University of America and a consultant to the United States Naval Academy and the AEC, among other agencies. Reines went on to win the Nobel Prize in Physics in 1995 for his lifelong experiments with neutrinos, including those done with Clyde Cowan. Frederick Reines died in 1998 (The Nobel Foundation 2004).

DESCRIPTION OF MOA PROPERTIES

Building Identification and Numbering

The buildings discussed in this report are identified using the current LANL system of placing the TA prefix before each building number. Historically, however, the "W" prefix was used before each building number and some of the drawings included in this report may use the old system of building identification. For example, TA-41-4 is the same building as W-4.

TA-41-1 (and TA-41-3)



(LANL, RRES-ECO/HREPC, #DCP_1108)

TA-41-1 Vault, South Elevation, March 2002

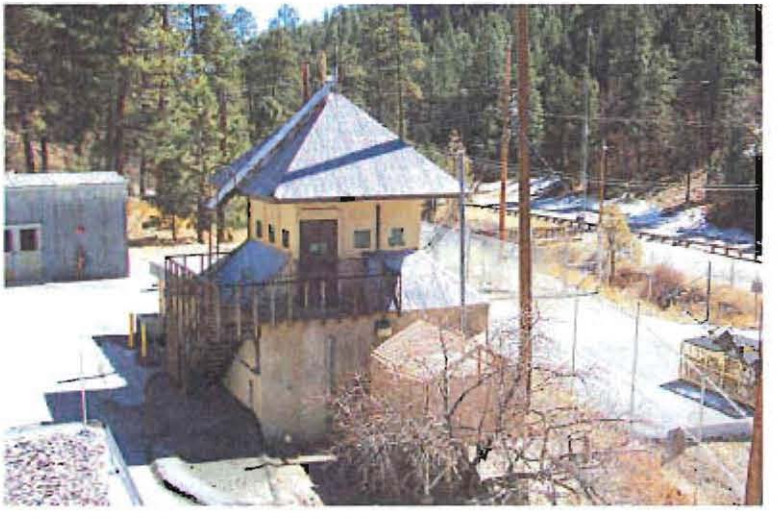
TA-41-1 is a unique tunnel and vault facility and is one of the best examples of Cold War architecture at Los Alamos. TA-41-1 was built between 1948 and 1949, at the beginning of the Cold War era. It was designed in 1948 by Black and Veatch Consulting Engineers of Kansas City, Missouri and built by Brown and Root, Inc. of Houston, Texas (LANL 1993a:3-10). The vault functioned as a storage facility for nuclear components and nuclear material. It was originally designed to replace a smaller nuclear storage vault at former TA-26, located near the East Gate entrance to Los Alamos (LASL 1964).

The TA-41-1 tunnel and vault is a reinforced concrete structure. The tunnel penetrates 230 feet into the north wall of Los Alamos Canyon through a concrete portal and secure overhead door. The vault consists of five concrete rooms within a larger room at the end of the tunnel. The tunnel is vented and the original inlet pipe and secure vent structure (TA-41-3) is visible on the hillside adjacent to the entrance.

(LANL, RRES-ECO/HREPC, #DCP_1098)

TA-41-3 Blower House Air Intake, South Elevation, March 2002

TA-41-2

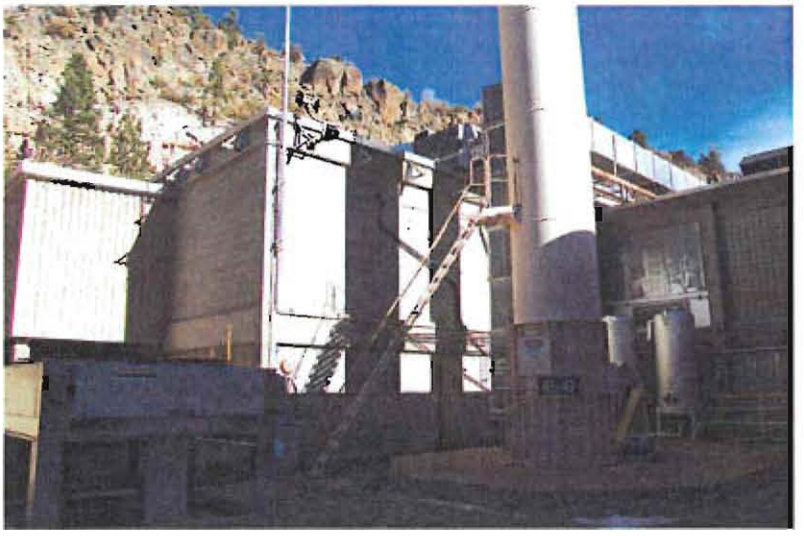


(LANL, RRES-ECO/HREPC, #DCP_1115)

TA-41-2, Guard Station, North and West Elevations, March 2002

TA-41-2 was constructed during 1948 to 1949. This guard station supported the extensive security protocols in effect at TA-41. TA-41-2 represents a unique architectural style based on functions performed within and around the facility. It provides protection for personnel working within the facility and an elevated vantage point for observing and enforcing a security perimeter. The facility is a cast-in-place reinforced concrete structure. The original roof was flat concrete with built up roofing. Subsequently, a sloped metal roof was added for the express purpose of preventing objects such as satchel charges from being placed on the roof—the slope is such that objects will slide off.

TA-41-4
(and TA-41-6 and TA-41-47)



(LANL, RRES-ECO/HREPC, #DCP_0770)

TA-41-4 Laboratory and Office Building, South Elevation of North Wing, December 2001

TA-41-4, the "Ice House," was built between 1950 and 1951. It was named after the Los Alamos Ranch School's icehouse, which was located in downtown Los Alamos. During World War II, the icehouse at Ashley Pond was used to store plutonium and enriched uranium, and functioned as an area for the assembly of weapon components.

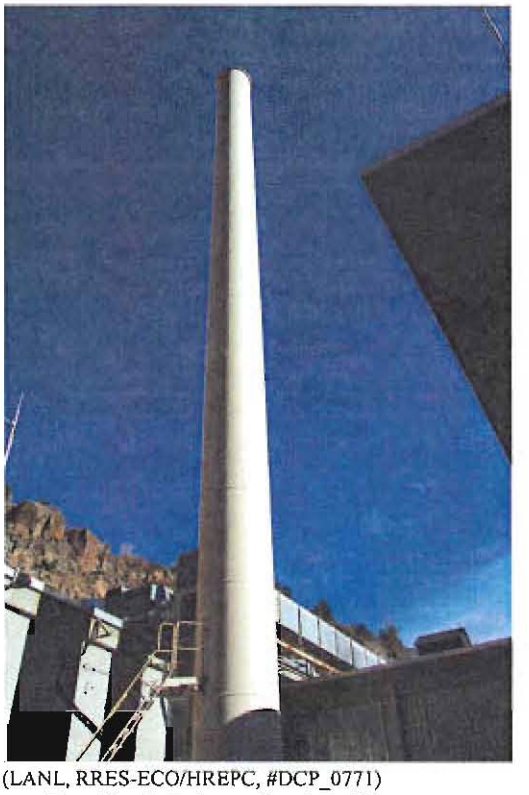
The TA-41 "Ice House" is a two level, flat-roofed structure with laboratory and high bay areas. The building is a cast-in-place reinforced concrete post and beam structure. A unique architectural feature is located within the canyon wall along the north side of the

building: a concrete tunnel leading to a low-interference count room. The Ice House also contains an addition known as the "Annex," completed in 1959. The Annex contains laboratories and areas for over-pressure experiments. This area has reinforced concrete walls and doors, shatter proof observation windows, and unique equipment to support experimentation. A tall exhaust stack (TA-41-47) was built to support the activities conducted in the Annex.

A curved corridor, TA-41-6, connects the Ice House building to the main storage vault. It was built at the same time as TA-41-4 and is actually an extension of that building. The corridor's outside wall is constructed of steel frame and light-gauge steel panels. The inside wall, which also serves as a retaining wall against the north face of the canyon, is reinforced concrete.

(LANL, RRES-ECO/HREPC, #DCP_1093)

TA-41-6 Passageway, Connecting Building TA-41-4, on left, to Building TA-41-1, South Elevation, March 2002



(LANL, RRES-ECO/HREPC, #DCP_0771)

TA-41-47, Exhaust Stack, 2002

TA-41-16

(LANL, RRES-ECO/HREPC, #DCP_1077)

TA-41-16 Guard Station, South Elevation, March 2002

TA-41-16 is a guard station that was built in 1952 by the Claremont Construction Company. The building, "Station 207," is small (only 87 ft^2 in size), has a flat roof, and is constructed of cast-in-place concrete. TA-41-16 supported the perimeter security of the entire TA-41 facility, serving as an access checkpoint.

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Appendix A: Historic Building Inventory Forms with Representative Photographs and Building Drawings

LANL TA- Building # 41-0001

Camera 984242

Frame #s DCP_1111 through DCP_1113

Surveyor(s) J.Ronquillo/K.Towery

Date 01/17/2002

Los Alamos National Laboratory CRMT
Historic Building Survey Form

Building Name Underground Vault UTMs easting 382951 northing 3970987 zone 13

Legal Description: Map Guaje Mountain Quad 1984 tnsp 19N range 6E sec 15

Current Use/ Function Underground Vault Original Use/ Function Underground Vault

Date (estimated) 1950 Date (actual) 1949 Property Type Security

Type of Construction

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

Other Type of Construction Concrete Moment Frame. # of Stories 1

Foundation Reinforced Concrete.

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

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

Exterior Treatment (painted, stuccoed, etc) Reinforced, vault type building.

Exterior Features (docks, speakers, lights, signs, etc) The south entrance contains one large overhead coiling door leading into the passageway. Mechanical equipment and a large stack are located to the right of the door.

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 Barrel Vault reinforced concrete.

Degree of Pitch/ Slope Underground

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

Other Roof Materials Reinforced concrete.

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

Other Window Type N/A

# of Each Window Type/ Comments

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

Light Pattern N/A

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 overhead coiling door at south entrance to storage vault.

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

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

Associated Building ☑

If yes, list building names and #s: TA-41-6 is a covered passageway. It leads to & connects TA-41-1 to TA-41-4. TA- 41-3, a small blower house is located on the hill above TA-41-1. TA-41-3 has a metal louvered grill with man guards and access door.

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

TA-41-3, a Blower House, is located on the hill above TA-41-1, a vault. Air is transferred via 16" diameter pipe to TA-41-1. The blower house is approx. 13 gross square feet.
UTM coordinates are midpoint in the actual vault room.

Architectural Features (elevations)

The only visible architectural feature is a large overhead coiling door. The rest of the vault is located underground.

Total sq ft 7,267 Gross

Architect/ Builder Contractor: Brown & Root

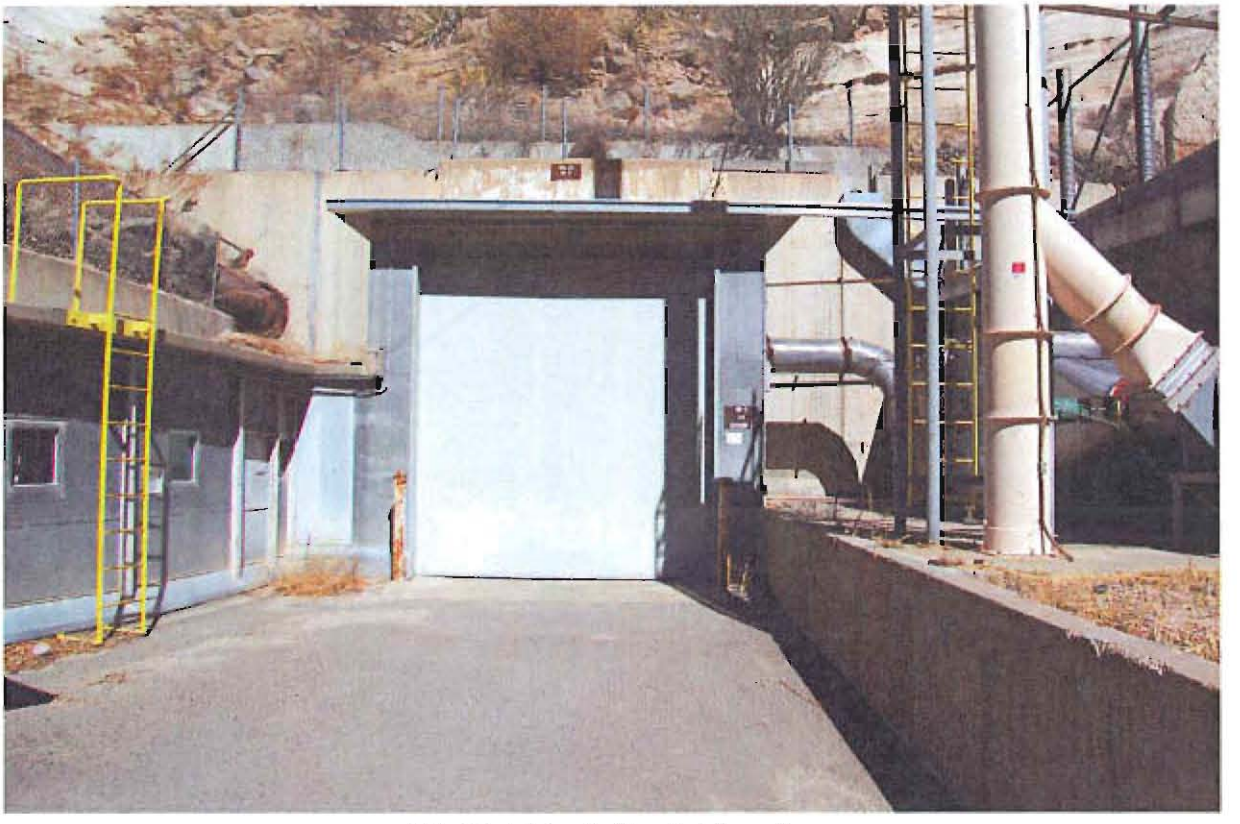
Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C 1581
Sheet 7 of 34
W-Site, Explosive Storage, TA-41
Plans and Sections (W-1)
January 12, 1948

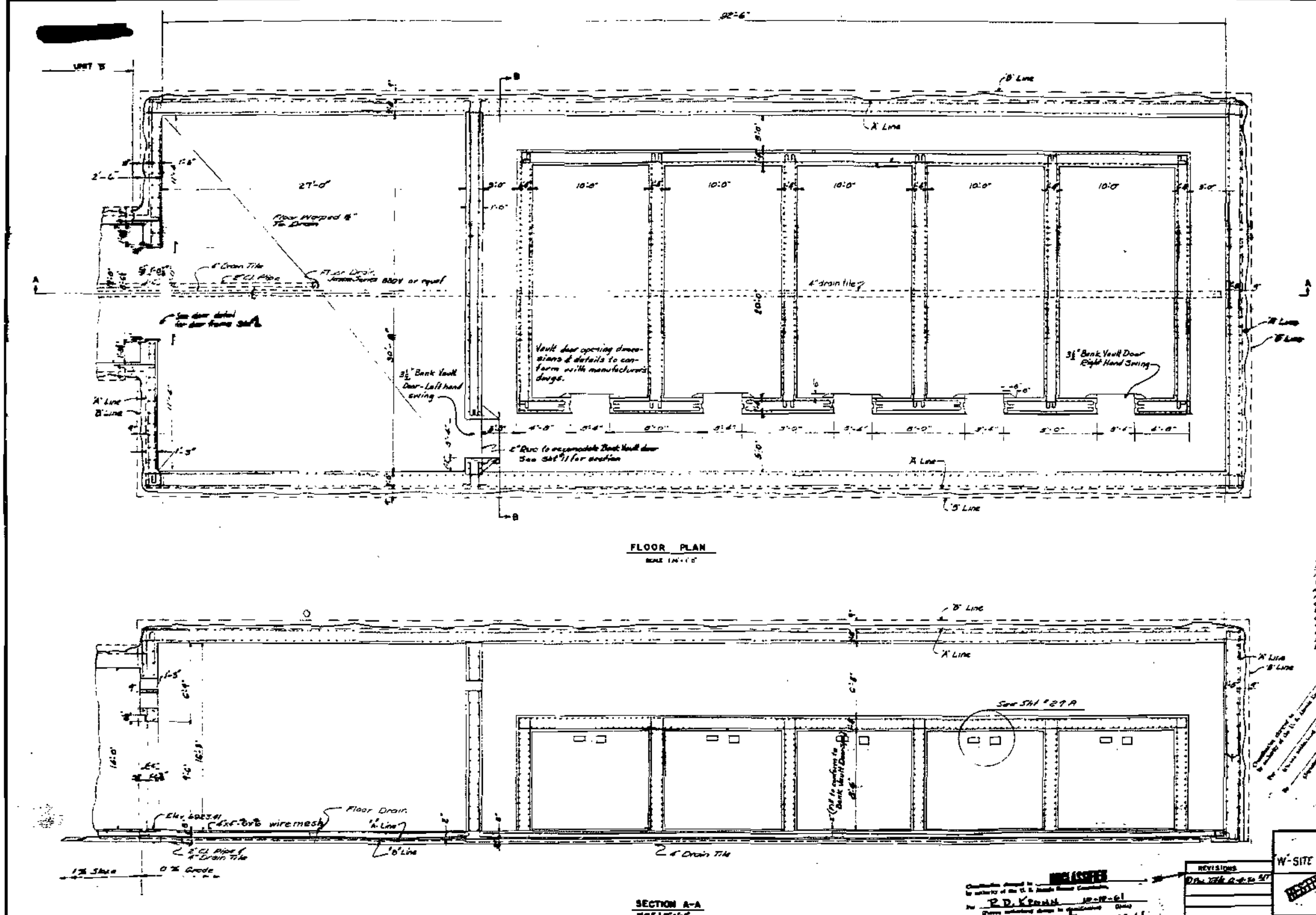
ENG-C 1582
Sheet 8 of 34
W-Site, Explosive Storage, TA-41
Elevations & Sections (W-1)
January 12, 1948

ENG-AB 111
Underground Vault
TA-41, Bldg. 1
Floor Plan
June 7, 1993



TA-41-1 Vault, South Elevation

[redacted]



[redacted]

For definition of 'A' & 'B' lines see specifications.
Pipes for grouting connections to be placed at intervals of not more than 28 ft. (measured along tunnel axis).
Actual location of grout pipes to provide maximum possibility for filling voids between concrete & rock face, and may be varied to satisfy field construction conditions as approved by Contracting Officer.
Concrete floor to be placed after concrete arch & curb are in place & grouting completed.
It is intended that all imbedded metal be a part of a continuous electrical grounding system.

KEY PLAN

Unit 'B'

Unit 'A'

UNCLASSIFIED

R. D. Krohn 10-17-61

J. E. Montoya 10-23-61

REVISIONS

AS CONSTRUCTED

W-SITE

LOS ALAMOS PROJECT

EXPLOSIVE STORAGE, TA-41

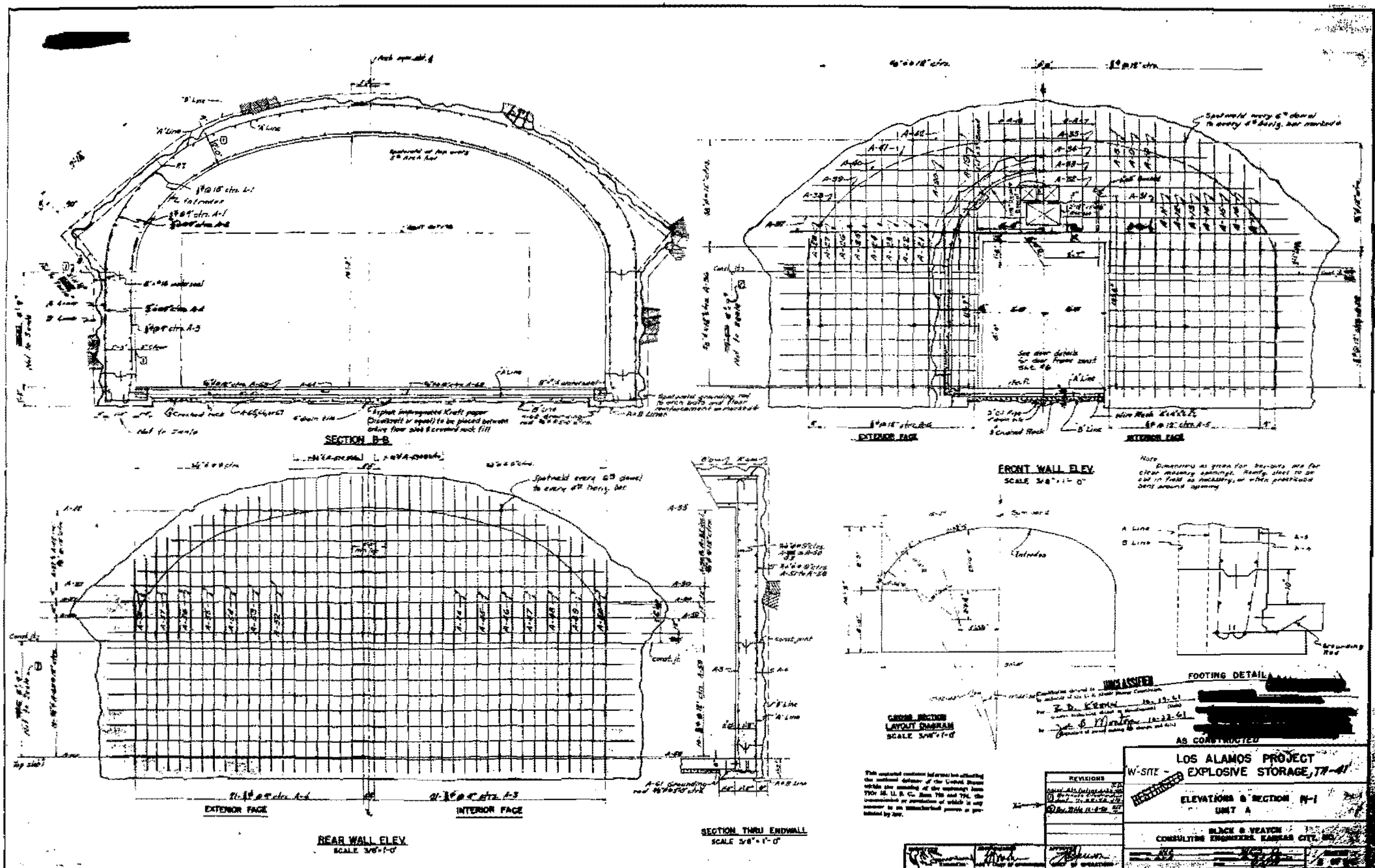
PLANS & SECTIONS W-1

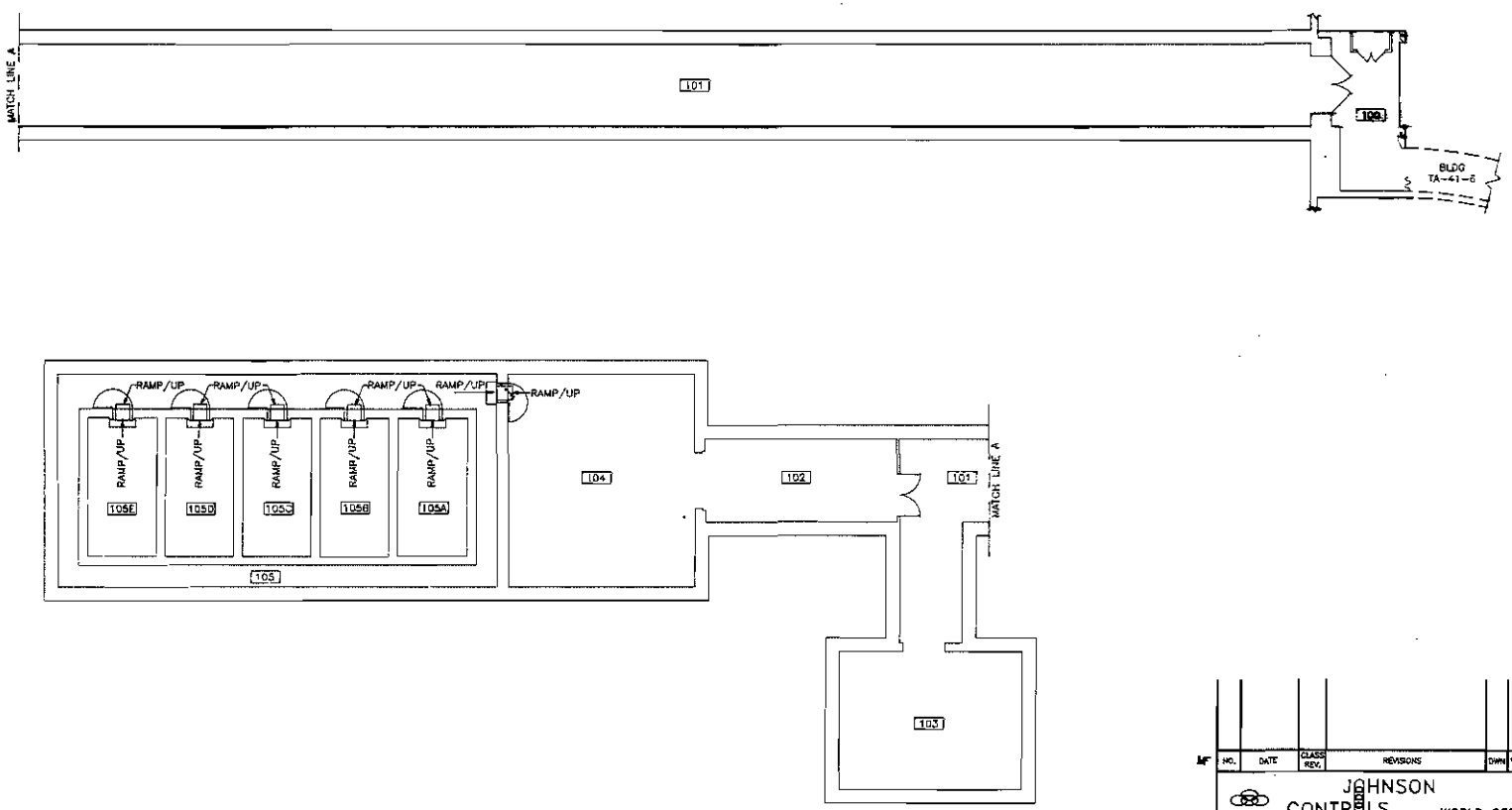
UNIT A

BLACK & VEATCH

CONSULTING ENGINEERS, KANSAS CITY, MO.

LAB JOB 145 L.A.S.L. DWG. NO. ENG-C 1561


SECTION B-B
FRONT WALL ELEV.
SCALE 3/8" = 1'-0"
EXTERIOR FACE
INTERIOR FACE
REAR WALL ELEV.
SCALE 3/8" = 1'-0"
SECTION THRU ENDWALL
SCALE 3/8" = 1'-0"
CROSS SECTION
LAYOUT DIAGRAM
SCALE 3/16" = 1'-0"
FOOTING DETAIL
UNCLASSIFIED
AS CONSTRUCTED
LOS ALAMOS PROJECT
W-SITE - EXPLOSIVE STORAGE, TA-41
ELEVATIONS & SECTION N-1
UNIT A
BLACK & VEATCH
CONSULTING ENGINEERS KANSAS CITY, MO.
REVISIONS
LAB JOB 145
L.A.S.L. DWG. NO. ENG-C



FIRST FLOOR PLAN

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

8 6 4 2 0 8 16 32

GRAPHIC SCALE

N

FIELD VERIFIED 03-05-93

NO.	DATE	CLASS REV.	REVISIONS	DWN	VER	CHKD	REL	SUB	REC	APP

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
UNDERGROUND VAULT

FIRST FLOOR PLAN

DRAWN	C. SANDOVAL
VERIFIED	C. SANDOVAL
CHECKED	H. SALAZAR
RELEASED	H. SALAZAR
DATE	03-31-93

BLDG. 1 TA-41

SUBMITTED JERRY FORTE 6/7/93

RECOMMENDED FRED THOMPSON 6/7/93

APPROVED FRED THOMPSON 6/7/93

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

SHEET 1 OF 1

CLASSIFICATION UNC. REVIEWER H. SALAZAR DATE 06-07-93

PROJECT ID	DRAWING NO.	REV.
7556	AB111	

APPD ___ LOGGED ___ TO VAULT ___

JCI #91-011

LANL TA- Building # 41-0002

Camera 984242

Frame #s DCP_1086 through DCP_1092

Surveyor(s) J.Ronquillo/K.Towery

Date 03/05/2002

Los Alamos National Laboratory CRMT
Historic Building Survey Form

Building Name Guard Station #318 UTMs easting 382951 northing 3970866 zone 13

Legal Description: Map Guaje Mountain Quad 1984 tnsp 19N range 6E sec 15

Current Use/ Function Guard Station that is currently not in use Original Use/ Function Guard Station

Date (estimated) 1950 Date (actual) 1949 Property Type Security

Type of Construction

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

Other Type of Construction Un-reinforced masonry bearing walls; cast in place concrete walls with CMU addition; upper structure is steel plate will bullet proof windows. # of Stories 1

Foundation Reinforced concrete.

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

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

Exterior Treatment (painted, stuccoed, etc)

Exterior Features (docks, speakers, lights, signs, etc)

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 Pitched with corrugated metal.

Degree of Pitch/ Slope Moderate

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 Impact resistant.

# of Each Window Type/ Comments

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

Light Pattern

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

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

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

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

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

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

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc) Concrete ceiling and walls.

Degree of Remodeling Moderate

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

Associated Building ☐

If yes, list building names and #s: TA-41-1(Vault), TA-41-16 (Guard Station), TA-41-4 (Laboratory/Office Building), and TA-41-6 (Covered Passageway).

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) Steel stair running along one side of building.

Total sq ft 781 gross **Architect/ Builder** Contractor: Brown and Root

Alterations A CMU equipment room addition was added to the east side of the building in 1985.

List of Drawings (Cntrl + Enter for para break)

ENG-C 1593
Sheet 17 of 36
Explosive Storage
TA-41, W-Site
Sentry House W-2
Architectural Elevations & Details
August 1948

ENG-C 43712
Sheet 2 of 9
Weapons Safeguards
TA-41, Bldg W-2
Civil: Guard Station Floor Plan, Elevations, Section,
Door & Finish Schedules
September 28, 1979

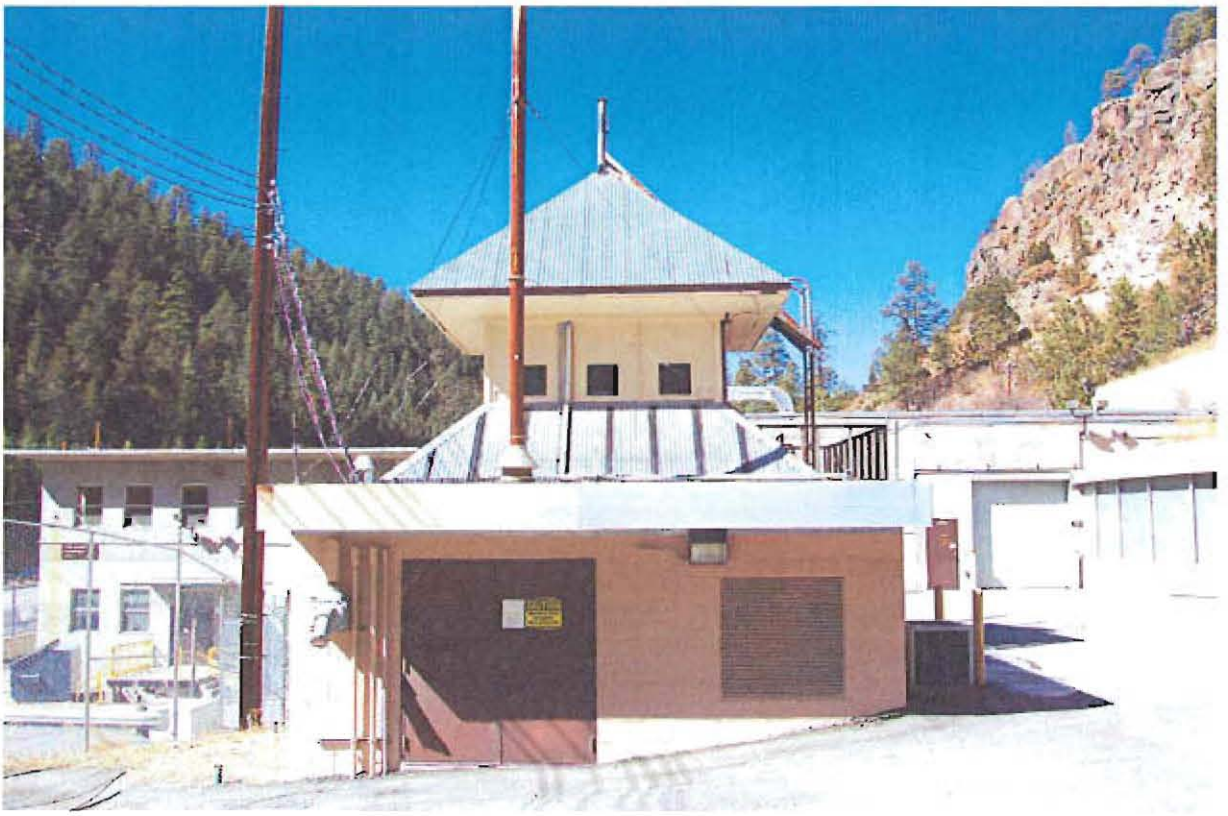
ENG-C 43713
Sheet 3 of 9
Weapons Safeguards
TA-41, Bldg W-2
Civil: Floor Plan, Section & Removal Elevation
September 28, 1979

ENG-R 3138
TA-41, Bldg W-2
Guard House
First & Second Floor Plans
September 27, 1983

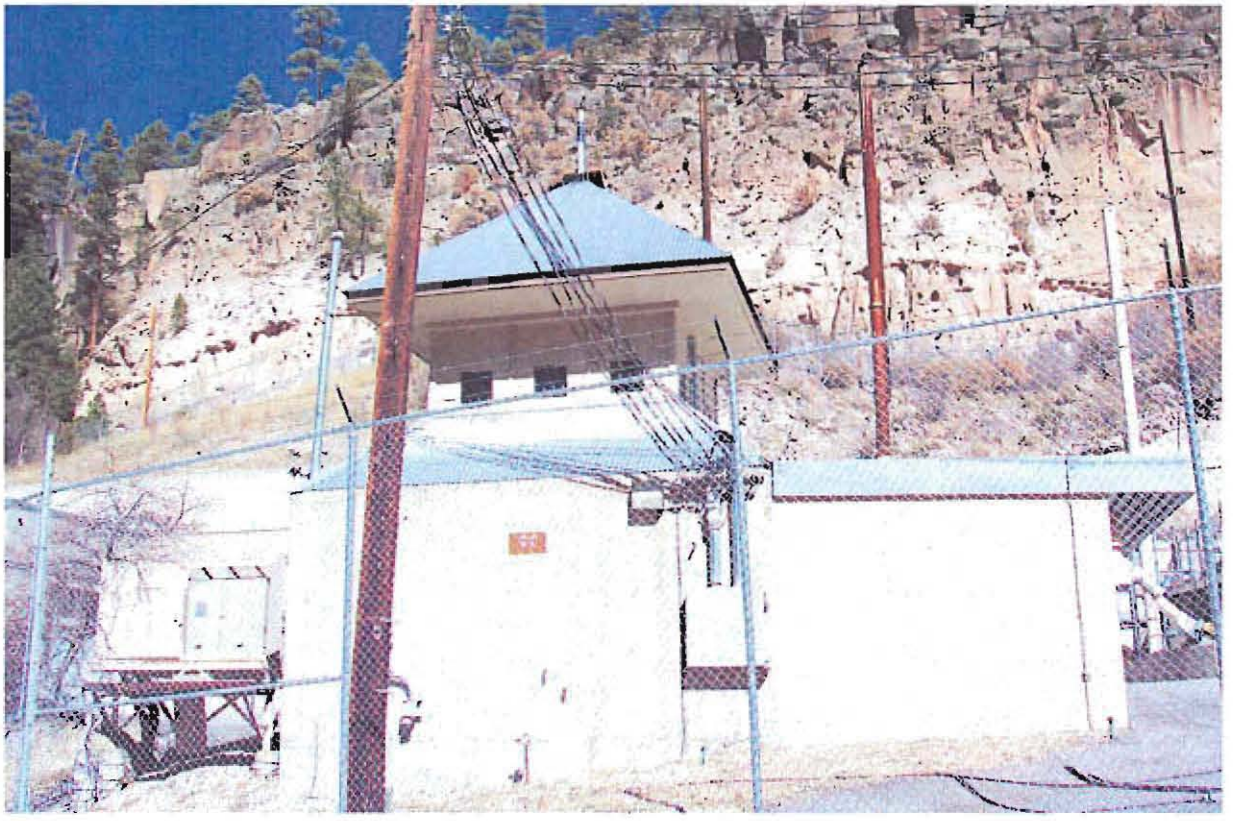
ENG-C 44520
Sheet 8 of 31
TA-41, Bldg W-2, W-54
Safeguards & Security Upgrades - Phase I
Power and Lighting
Arch: Floor Plan, Sections, & Details
May 20, 1985

ENG-C 44520
Sheet 9 of 31
TA-41, Bldg W-2, W-54
Safeguards & Security Upgrades - Phase I
Power and Lighting
Arch: Elevations, W-2 & W-54
May 20, 1985

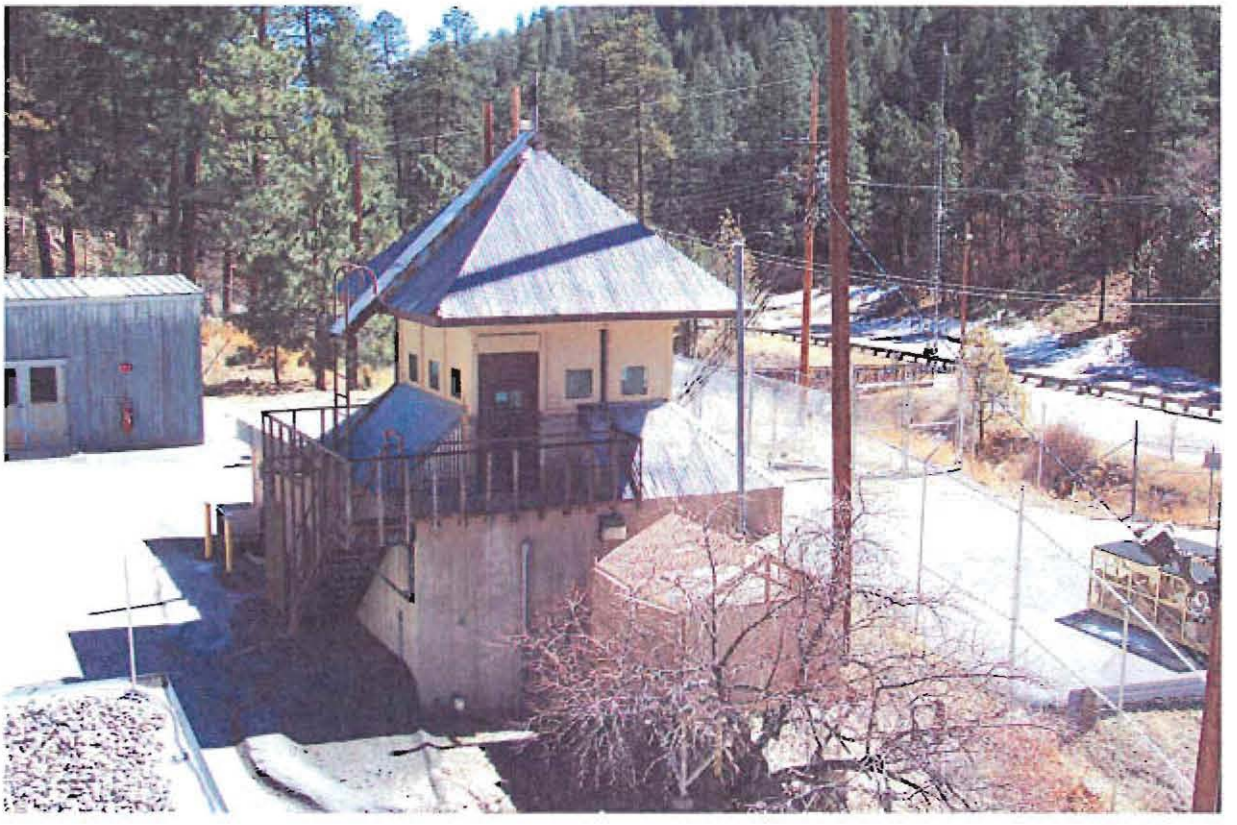
TA-41-2 Guard Station, East and North Elevations



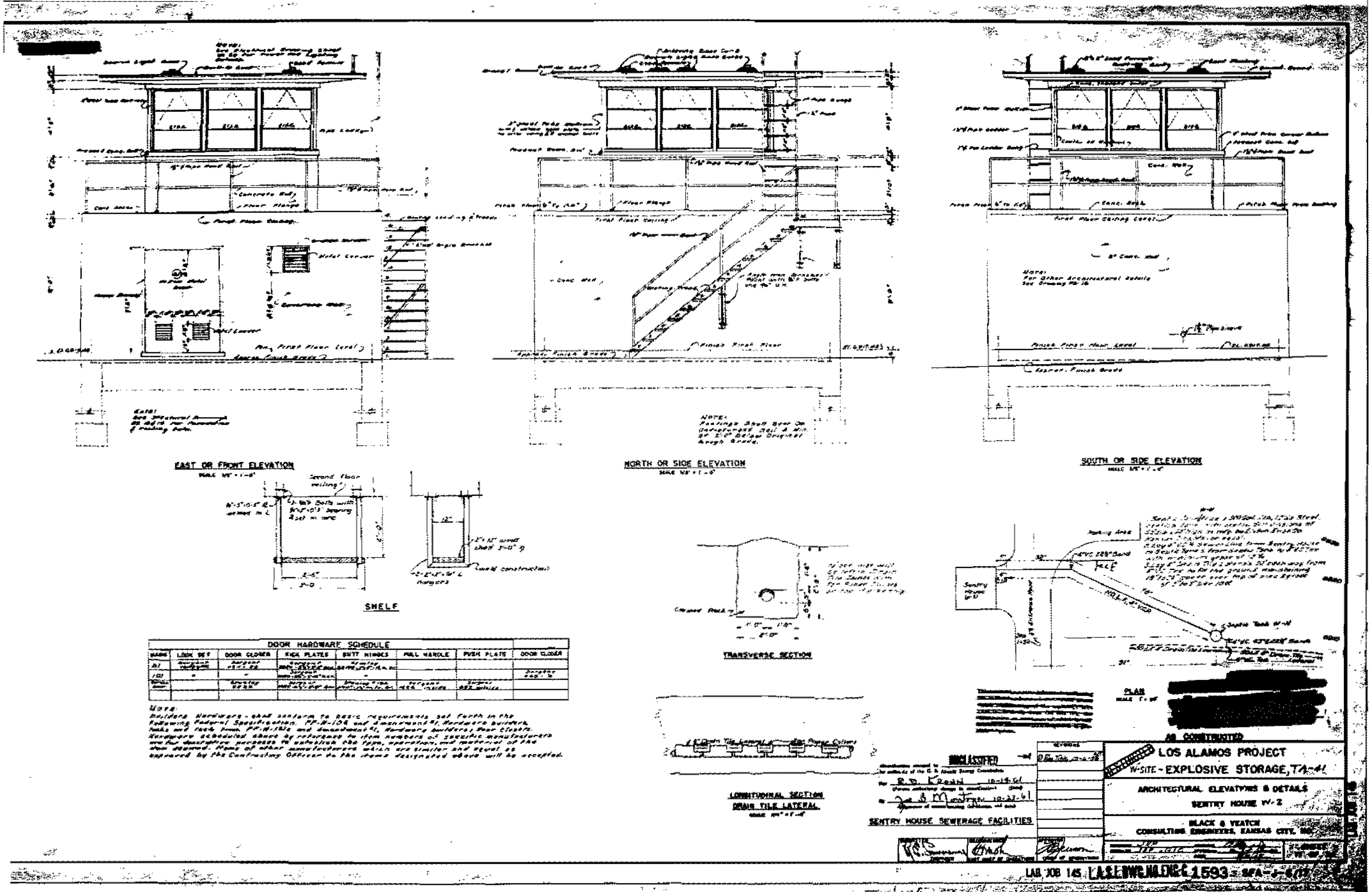
TA-41-2 Guard Station, East Elevation

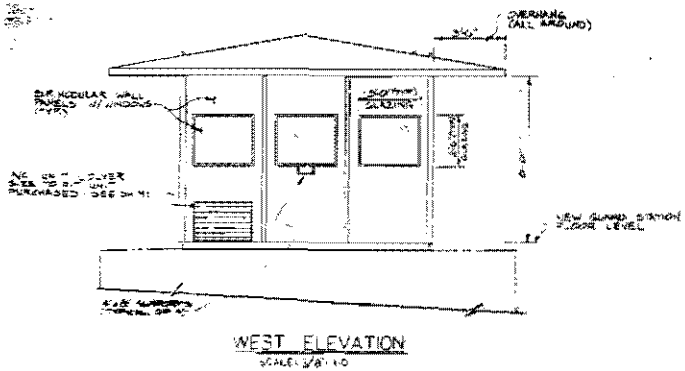


TA-41-2 Guard Station, South Elevation

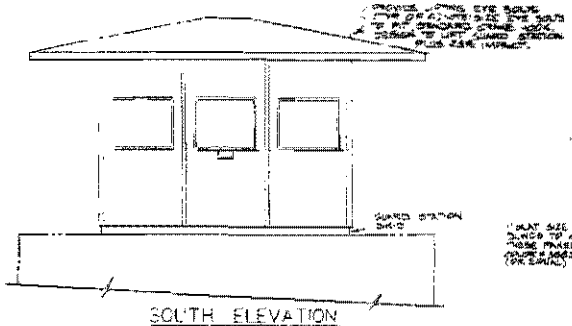


TA-41-2 Guard Station, North and West Elevations

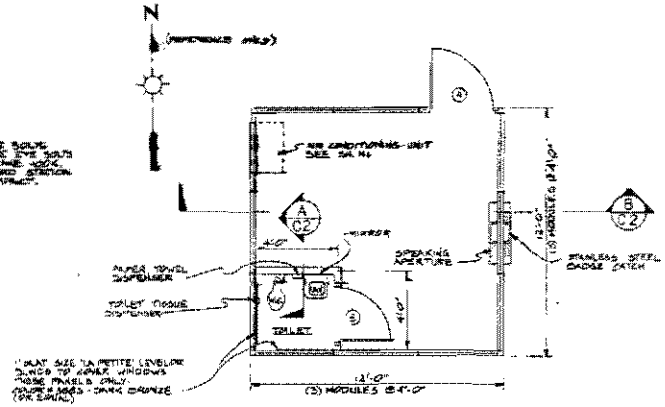

EAST OR FRONT ELEVATION
NORTH OR SIDE ELEVATION
SOUTH OR SIDE ELEVATION
SHELF
TRANSVERSE SECTION
LONGITUDINAL SECTION
DRAIN TILE LATERAL
PLAN
SENTRY HOUSE SEWERAGE FACILITIES
DOOR HARDWARE SCHEDULE
LOCK SET
DOOR CLOSER
KICK PLATES
BUTT HINGES
PULL HANDLE
PUSH PLATE
DOOR CLOSER
UNCLASSIFIED
AS CONSTRUCTED
LOS ALAMOS PROJECT
W-SITE - EXPLOSIVE STORAGE, TA-41
ARCHITECTURAL ELEVATIONS & DETAILS
SENTRY HOUSE W-2
BLACK & VEATCH
CONSULTING ENGINEERS, KANSAS CITY, MO.
LAB JOB 145
1593



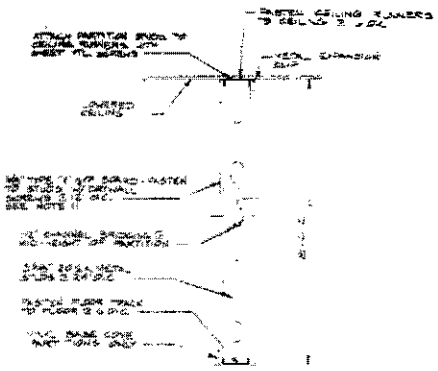
WEST ELEVATION
SCALE: 3/8"=1'-0"



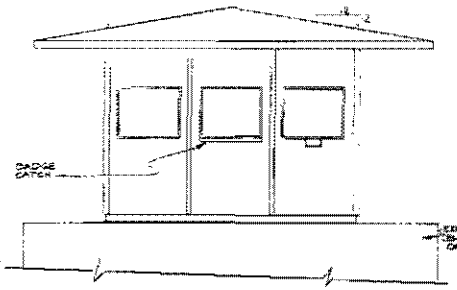
SOUTH ELEVATION
SCALE: 3/8"=1'-0"



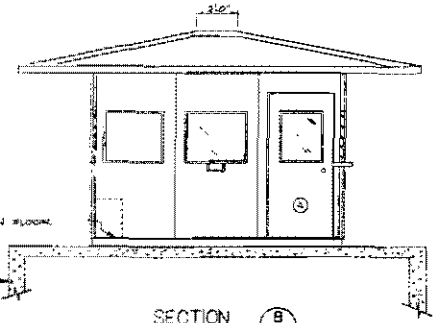
FLOOR PLAN
SCALE: 3/8"=1'-0"



PARTITION SECTION 3/C2
SCALE: 3/4"=1'-0"



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



SECTION B/C2
SCALE: 3/8"=1'-0"

DOOR SCHEDULE

MARK	DOOR SIZE	GLAZING	HARDWARE	CLOSER	PANIC BAR	KICK PLATE	DESCRIPTION
A	3' x 7'	2'-0" x 2'-6" B.R. WINDOW	CYL. LOCK SET TO FIT BEST CORE	YES	YES	YES	BULLET RESISTANT (SEE SPECS) SHEET C1
B	2'-8" x 7' x 1¾"	2'-0" x 2'-6" 1-WAY GLASS	LATCH SET	NO	NO	NO	WOOD HOLLOW DOOR

FINISH SCHEDULE

	FLOOR	DOORS	FRAMES AND TRIM	WALLS AND PARTITIONS	MISC. MECH. ELEC. EQUIPMENT	ROOF	EXTERIOR B.R. WINDOWS	UNDERSIDE OF CANOPY
INTERIOR	F-1	W-1	W-1	W-1	W-1	N/A	N/A	N/A
EXTERIOR	N/A	W-2	W-2	W-2	W-2	W-1	G-1	W-1

FLOOR
F-1 = EXCELON, VINYL ASBESTOS 12" x 12" FAWN WHITE TILE

WALLS, DOORS, FRAMES & TRIM
W-1 = PPG. NO. P2310 PARCHMENT
W-2 = PPG. NO. H7211 FLAME ORANGE
W-3 = PPG. NO. H7693 FALCON WING

MISC. MECH. & ELEC. EQUIPMENT
SAME AS ABOVE

EXTERIOR B.R. WINDOWS
G-1 = SOLAR BRONZE TINT

UNITED STATES
DEPARTMENT OF ENERGY
LOS ALAMOS AREA OFFICE - LOS ALAMOS, NEW MEXICO

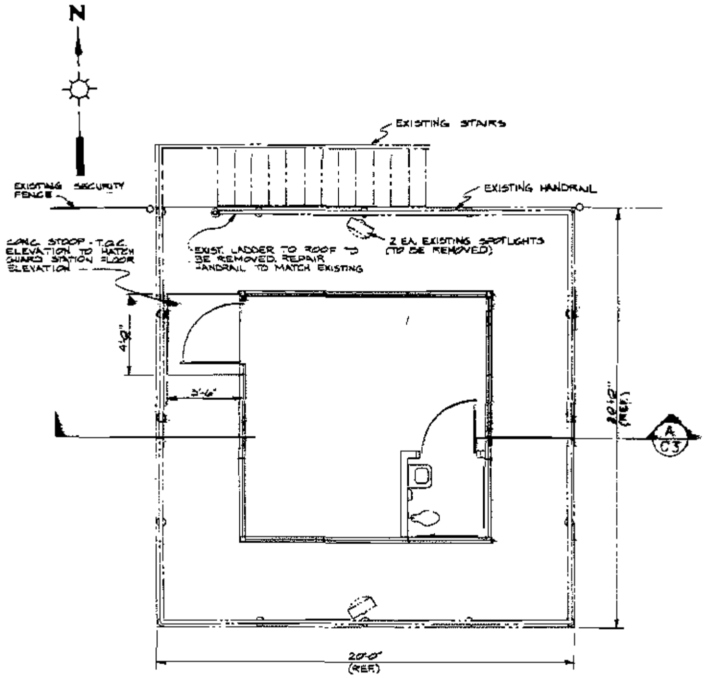
WEAPONS SAFEGUARDS
CIVILGUARD STATION FLOOR PLAN, ELEVATIONS, SECTION, DOOR & FINISH SCHEDULES

BLDG. W-2 TA-41

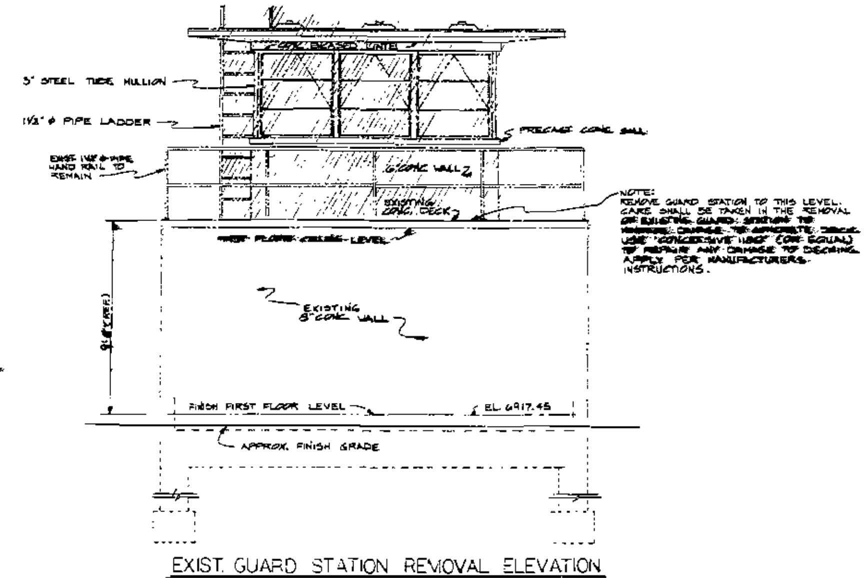
LOS ALAMOS SCIENTIFIC LABORATORY
UNIVERSITY OF CALIFORNIA
DRAWING NO. C2
SHEET 2 OF 9

LAB JOB NO. 5788-41
LEVEL CHG. ENG-C43712

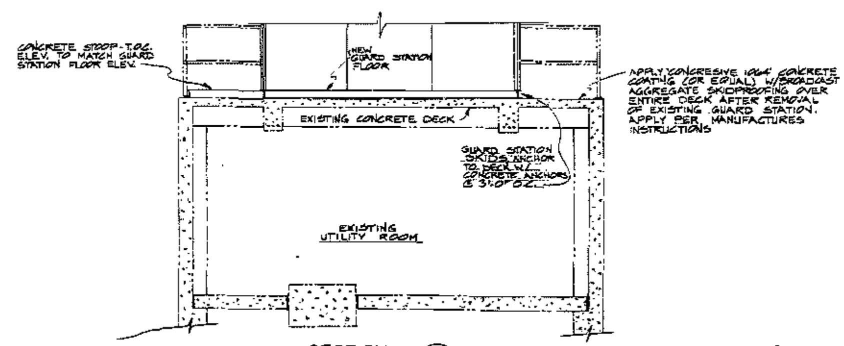
PHASE 3



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



EXIST. GUARD STATION REMOVAL ELEVATION
SCALE: 3/8" = 1'-0"



SECTION (A / C3)
SCALE: 3/8" = 1'-0"

THIS JOB MUST BE INSPECTED AND ANY CHANGES APPROVED BY ENGR. 2346

AUTHORIZED FOR	
H-1	NA
H-3	DRR-38190
H-4	DRR-38192
H-5	NA
H-6	DRR-38191
H-7	NA
H-8	NA
E-	DRR-38196
ENG-	DRR-38180
ENG-	DRR-38186
ENG-	DRR-38187

UNITED STATES
DEPARTMENT OF ENERGY
LOS ALAMOS AREA OFFICE - LOS ALAMOS, NEW MEXICO

WEAPONS SAFEGUARDS

CIVIL: FLOOR PLAN, SECTION, & REMOVAL ELEVATION

BLDG. W-2 TA-41

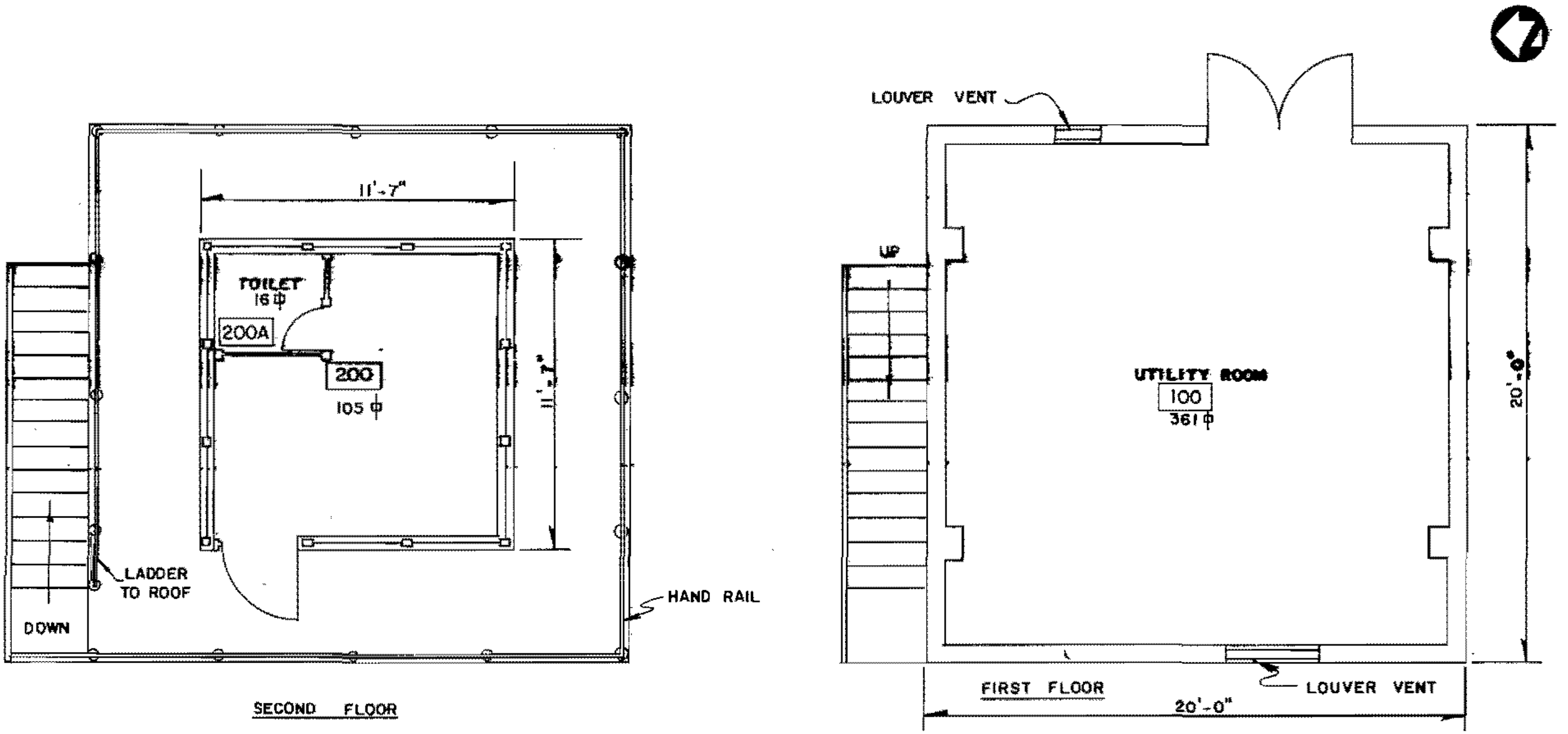
LOS ALAMOS SCIENTIFIC LABORATORY
UNIVERSITY OF CALIFORNIA
ENGINEERING DEPT. LOS ALAMOS, N.M.

A.E. APPROVED: J. GOSE
9-25-79
10-1-79
DATE 9-7-79

SHEET C3 — 3 OF 9

LAB JOB NO. 5788-41
LASL DWG. NO. ENG-C43713

PHASE "B"



1/4"=1'-0"

0' 4' 8' 12'

GRAPHIC SCALE

TOTAL SQ. FT. 482

MF

REV.	DATE	REVISION	BY	CKD.	APR.
2	2-2-84	REVISED TO STATUS OF 2-2-84	HBN		
1	9-27-83	REDRAWN & REVISED TO STATUS OF 09/27/83	HBN		

UNIVERSITY OF CALIFORNIA

Los Alamos

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

GUARD HOUSE

FIRST & SECOND FLOOR PLANS

BLDG. W-2 TA-41

SEC. CLASSIFICATION

CLASS. 4

REVIEWER

DATE 2-6-84

SUBMITTED / RECOMMENDED / APPROVED

DRAWN H&N

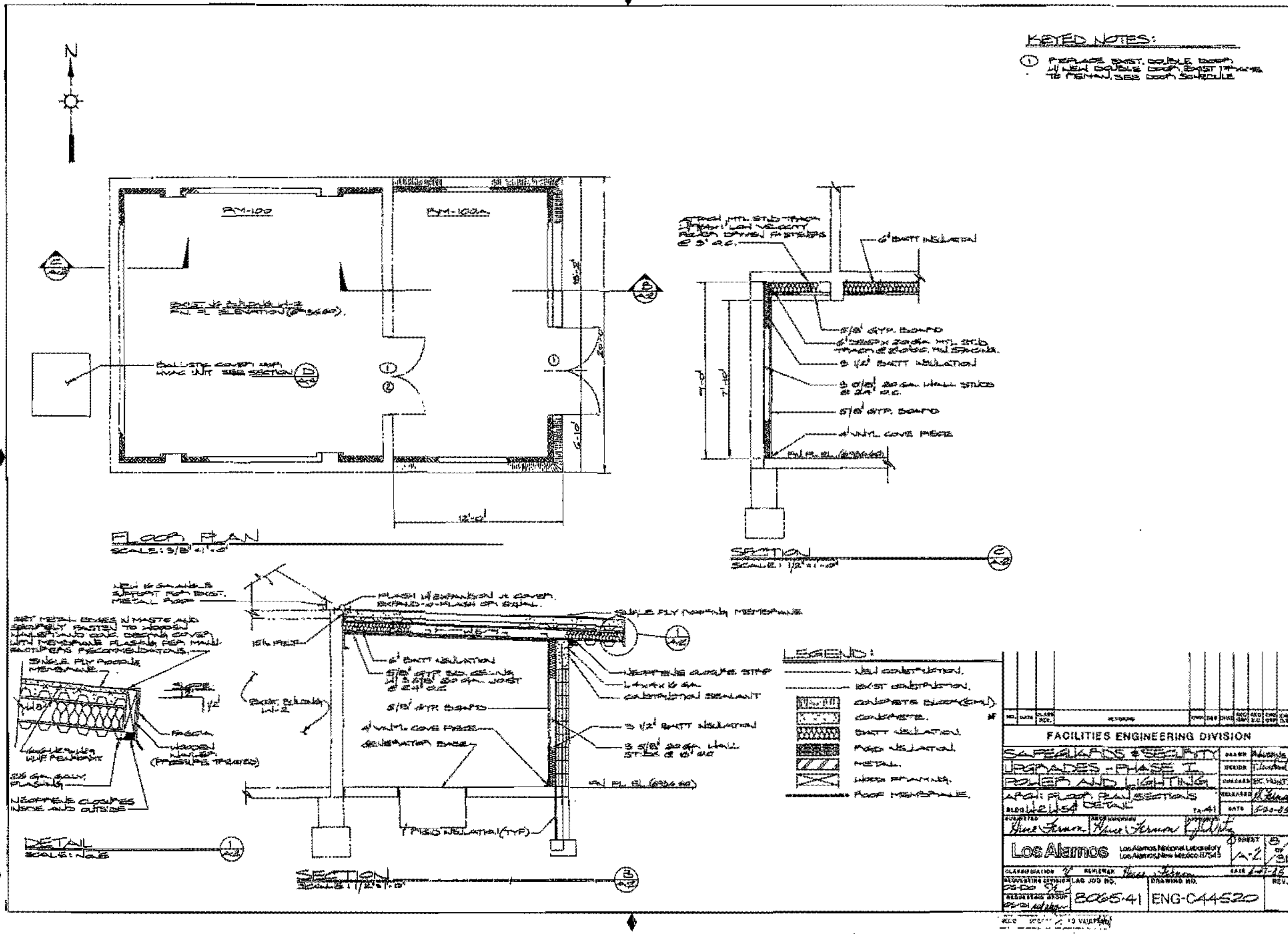
CHECKED H&N

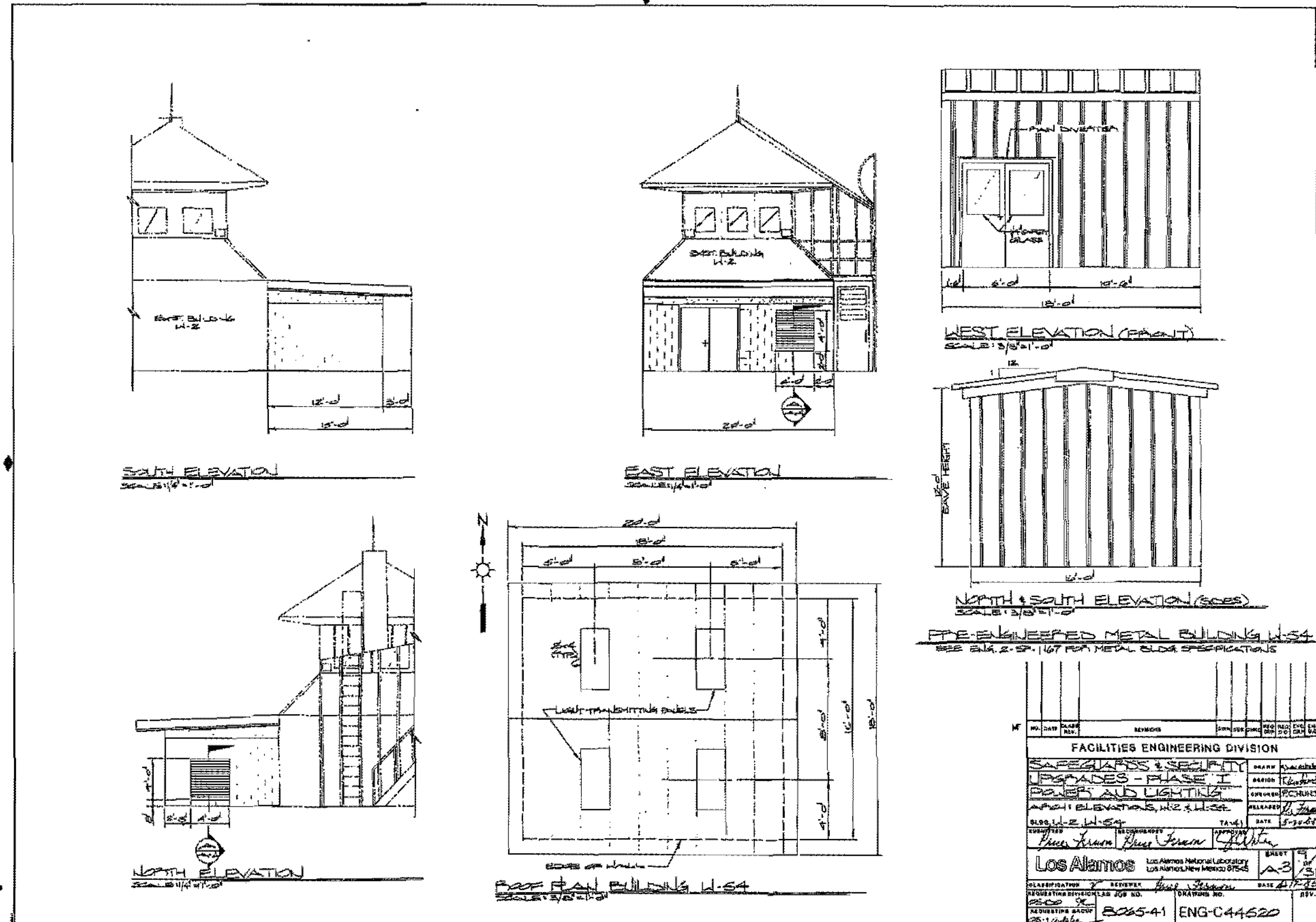
DATE 09/27/83

SHEET NO. 1 OF 1

DRAWING NO. ENG-R3138

REC'D ___ LOGGED ✓ TO VAULT


KEYED NOTES:
① REPLACE EXIST. DOUBLE DOOR W/ NEW DOUBLE DOOR, EXIST FRAME TO REMAIN, SEE DOOR SCHEDULE
N
RM-100
RM-100A
BALLISTIC COVER FOR HVAC UNIT SEE SECTION
12'-0"
FLOOR PLAN
SCALE: 3/8"=1'-0"
6" BATT INSULATION
5/8" GYP. BOARD
3 1/2" BATT INSULATION
5/8" GYP. BOARD
4" VINYL COVE PIECE
SECTION
SCALE: 1/2"=1'-0"
SINGLE PLY ROOFING MEMBRANE
6" BATT INSULATION
NEOPRENE CLOSURE STRIP
CONSTRUCTION SEALANT
5/8" GYP. BOARD
4" VINYL COVE PIECE
GENERATOR BASE
3 1/2" BATT INSULATION
SECTION
DETAIL
SCALE: NONE
FASCIA
WOODEN NAILER (PRESSURE TREATED)
NEOPRENE CLOSURES INSIDE AND OUTSIDE
LEGEND:
NEW CONSTRUCTION
EXIST CONSTRUCTION
CONCRETE
BATT INSULATION
METAL
WOOD FRAMING
ROOF MEMBRANE
FACILITIES ENGINEERING DIVISION
SAFEGUARDS & SECURITY UPGRADES - PHASE I POWER AND LIGHTING
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545
A-2
8065-41
ENG-C44520


SOUTH ELEVATION
SCALE: 1/4" = 1'-0"
EAST BUILDING W-2
12'-0"
3'-0"
15'-0"
EAST ELEVATION
EAST BUILDING W-2
4'-0"
2'-0"
24'-0"
WEST ELEVATION (FRONT)
SCALE: 3/8" = 1'-0"
RAIN DIVERTER
TEMPERED GLASS
18'-0"
10'-0"
NORTH & SOUTH ELEVATION (SIDES)
SCALE: 3/8" = 1'-0"
12'-0" EAVE HEIGHT
16'-0"
PRE-ENGINEERED METAL BUILDING W-54
SEE ENG. 2-SP. 1167 FOR METAL BLDG. SPECIFICATIONS
NORTH ELEVATION
SCALE: 1/4" = 1'-0"
4'-0"
ROOF PLAN BUILDING W-54
SCALE: 3/8" = 1'-0"
LIGHT-TRANSMITTING PANELS
EDGE OF WALL
22'-0"
18'-0"
5'-0"
8'-0"
16'-0"
4'-0"
N

FACILITIES ENGINEERING DIVISION
SAFEGUARDS & SECURITY
UPGRADES - PHASE I
POWER AND LIGHTING
ARCH. ELEVATIONS, W-2 & W-54
BLDG. W-2, W-54 TA-41
CHECKED P.C. HUNT
DATE 5-30-85
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545
SHEET A-3 9 OF 31
LAB JOB NO. 8065-41
DRAWING NO. ENG-C44620

LANL TA- Building # 41-0003

Camera 984242

Frame #s DCP_1098 and DCP_1116

Surveyor(s) K.Towery/J.Ronquillo

Date 03/05/2002

Los Alamos National Laboratory CRMT
Historic Building Survey Form

Building Name Blower House UTMs easting 382936 northing 3970899 zone 13

Legal Description: Map Guaje Mountain Quad 1984 tnsp 19N range 6E sec 15

Current Use/ Function Air is transferred via 16" duct to vault, TA-41-1. Original Use/ Function Air is transferred via 16" duct to vault

Date (estimated) 1950 Date (actual) 1949 Property Type Support

Type of Construction

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

Other Type of Construction Concrete shear walls. # of Stories 1

Foundation Reinforced concrete.

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

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

Exterior Treatment (painted, stuccoed, etc) Unpainted exposed concrete.

Exterior Features (docks, speakers, lights, signs, etc) Large metal louvered grill on the south elevation.

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

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition N/A

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 N/A

# of Each Window Type/ Comments N/A

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

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐

Hollow Metal ☐ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

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

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

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

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

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

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Unknown/None

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

Associated Building ☐

If yes, list building names and #s: TA-41-1 (vault), TA-41-6 (Covered Passageway), and TA-41-4 (Laboratory/Office building).

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) Exposed concrete walls with a large metal louver on the south elevation.

Total sq ft 24 Gross **Architect/ Builder** Contractor: Brown & Root

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-R 3377
TA-41, Building W-3
Blower House
Floor Plan
January 22, 1963

TA-41-3 Blower House Air Intake, South Elevation

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

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

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

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

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior

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

Ceiling Drop Ceiling ☑

Interior Comments (Equipment, etc) Drop ceiling for a significant portion of the facility, with some exposed structure in other parts.

Degree of Remodeling Minor

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

Associated Building ☑

If yes, list building names and #s: TA-41-1, vault; TA-41-2, guard station; TA-41-16 guard station; TA-41-6, covered passageway.

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)

This building exterior architectural style is unpainted concrete with clean elevations with symmetrically placed operable windows around each of its elevations. The building is functional with no features added other than what needs to be there. There is some glass block on the east elevation. The glass block serves as a functional element for bringing in natural light, but also provides some visual security. This material was used throughout the building in similar type applications.

Total sq ft 40,565 Gross

Architect/ Builder A/E Firm: Skidmore, Owings, and Merrill Contractor: R.E. McKee

Alterations

An addition referred to as the "Annex" and an associated exhaust stack (TA-41-47) was constructed in 1959. Through the years offices were modified. Portable, window air conditioning units were added, but no major construction appears to have been added.

List of Drawings (Cntrl + Enter for para break)

ENG-C 15125
Sheet 14 of 75
Project TA-41, Building W-4
First Floor Plan
November 15, 1950

ENG-C 15126
Sheet 15 of 75
Project TA-41, Building W-4
Second Floor Plan
November 15, 1950

ENG-C 15127
Sheet 16 of 75
Project TA-41, Building W-4
Elevations (East, South, and West)
November 15, 1950
Field verified and modified January 16, 2002

ENG-C 15128
Sheet 17 of 75
Project TA-41, Building W-4
Elevations & Sections (North)
November 15, 1950

ENG-C 23858
Sheet 14 of 50
TA-41, W-4 Annex
Architectural
First and Second Floor
Plans and Schedules
August 19, 1959

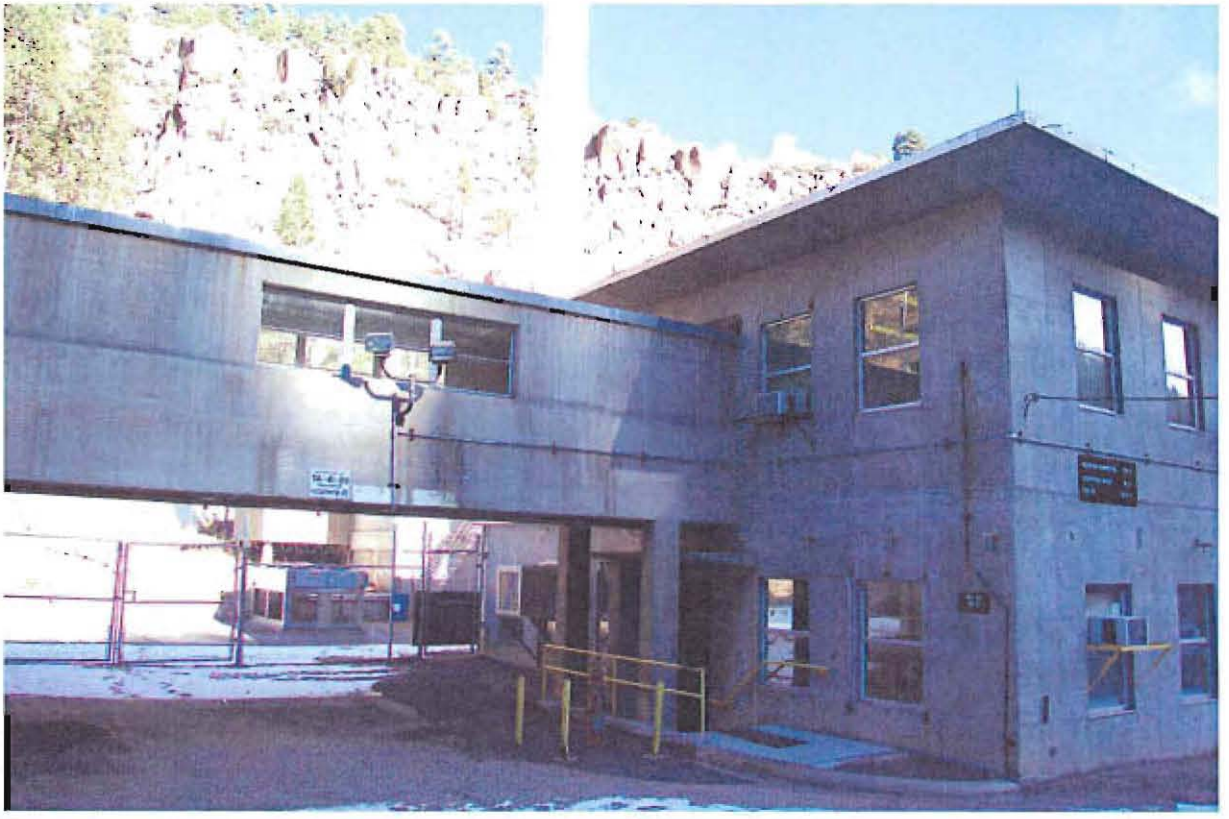
ENG-C 23861
Sheet 17 of 50
TA-41, W-4 Annex
Architectural
Elevations and Sections
August 19, 1959

ENG-AB 120
Sheet 1 of 3
TA-41, Building 4
As-Built Record Floor Plan
Architectural
Basement Floor Plan
May 13, 1994

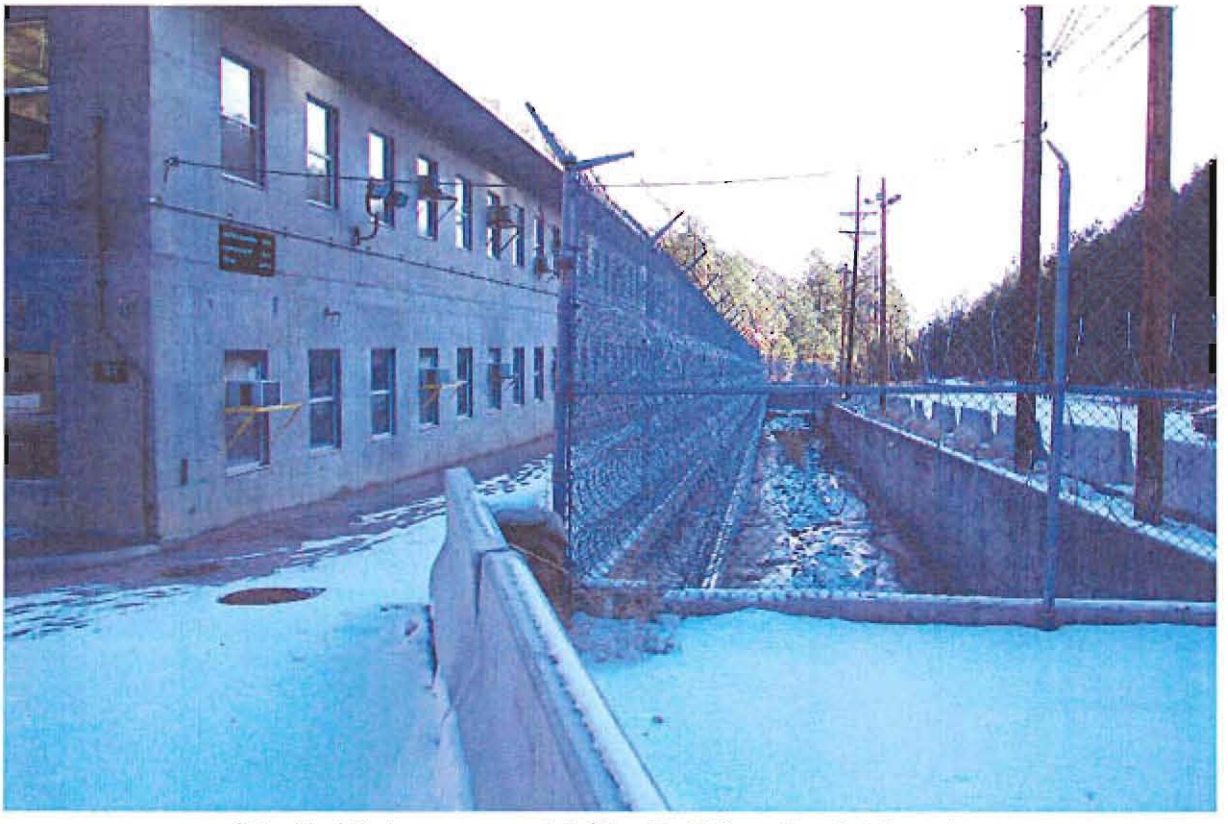
Drawings continued on next page

ENG-AB 120
Sheet 2 of 3
TA-41, Building 4
As-Built Record Floor Plan
Architectural
First Floor Plan
May 13, 1994

ENG-AB 120
Sheet 3 of 3
TA-41, Building 4
AS-Built Record Floor Plan
Architectural
Second Floor Plan
May 13, 1994

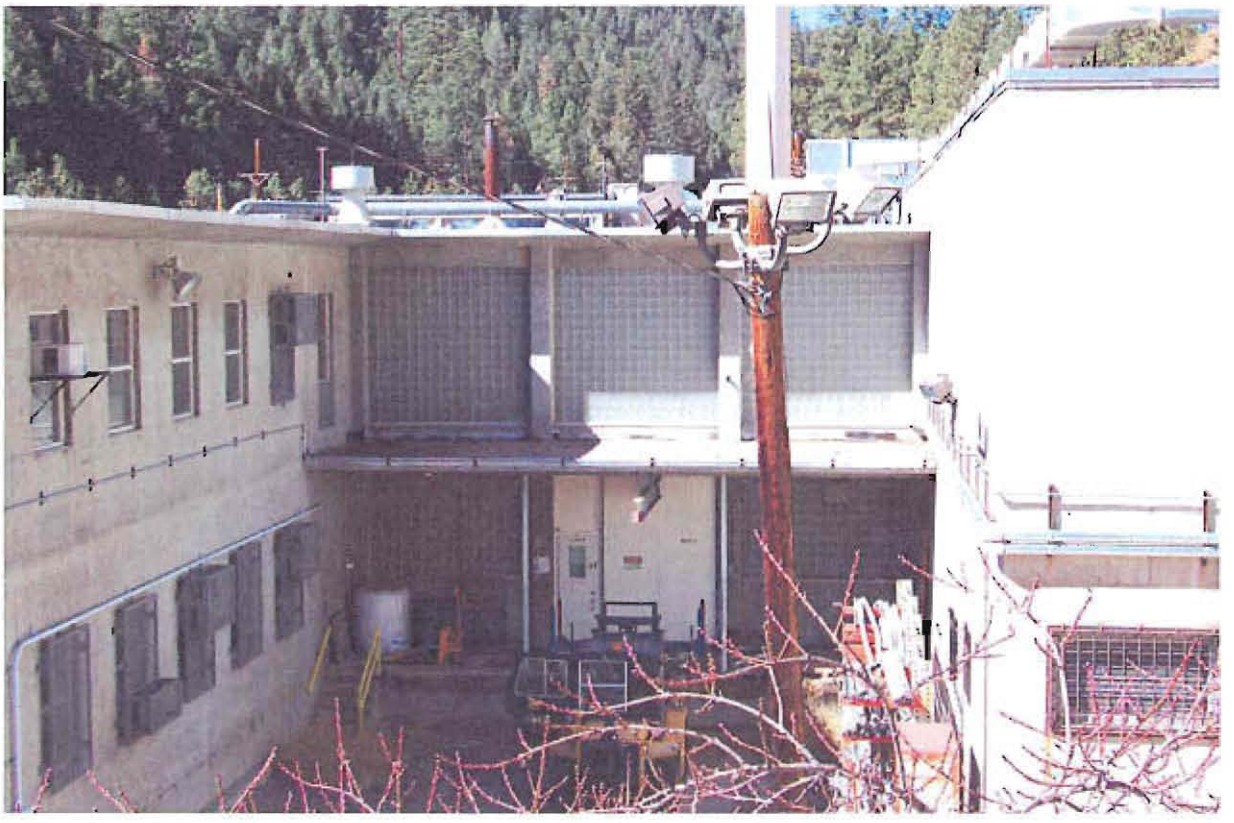


TA-41-4 Laboratory and Office Building, West and South Elevations

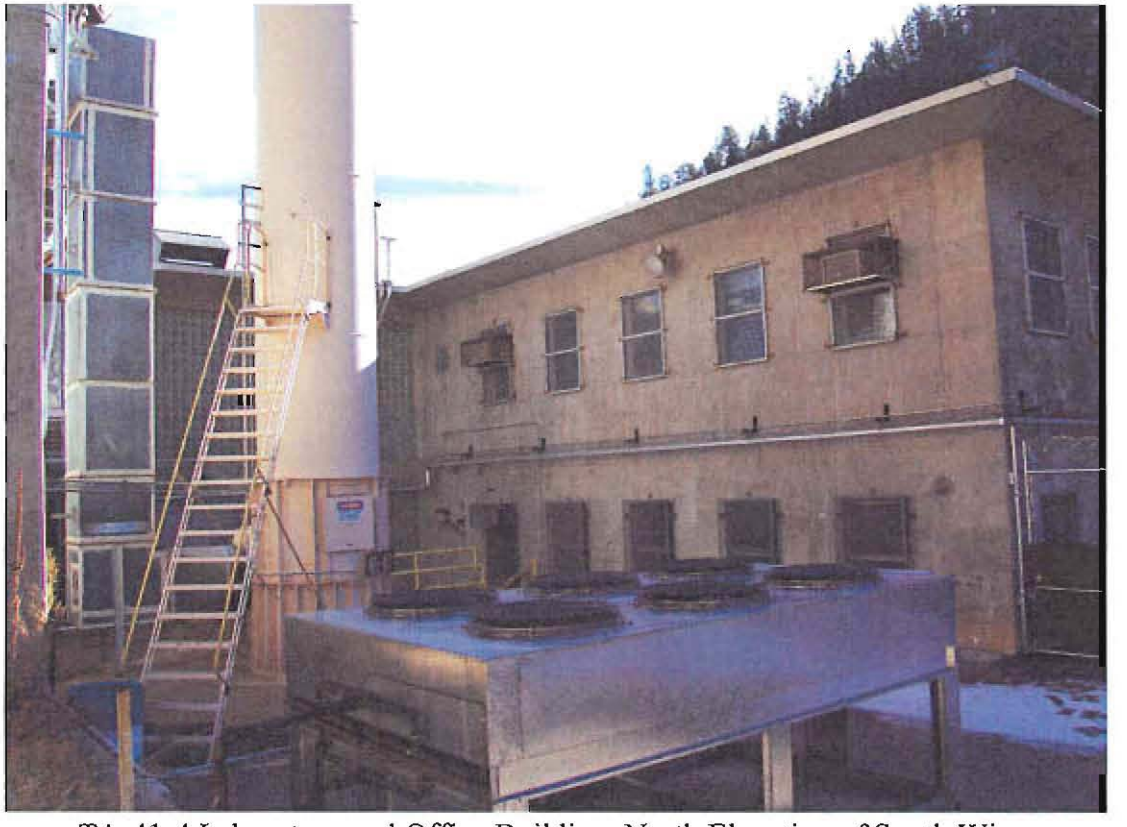


TA-41-4 Laboratory and Office Building, South Elevation

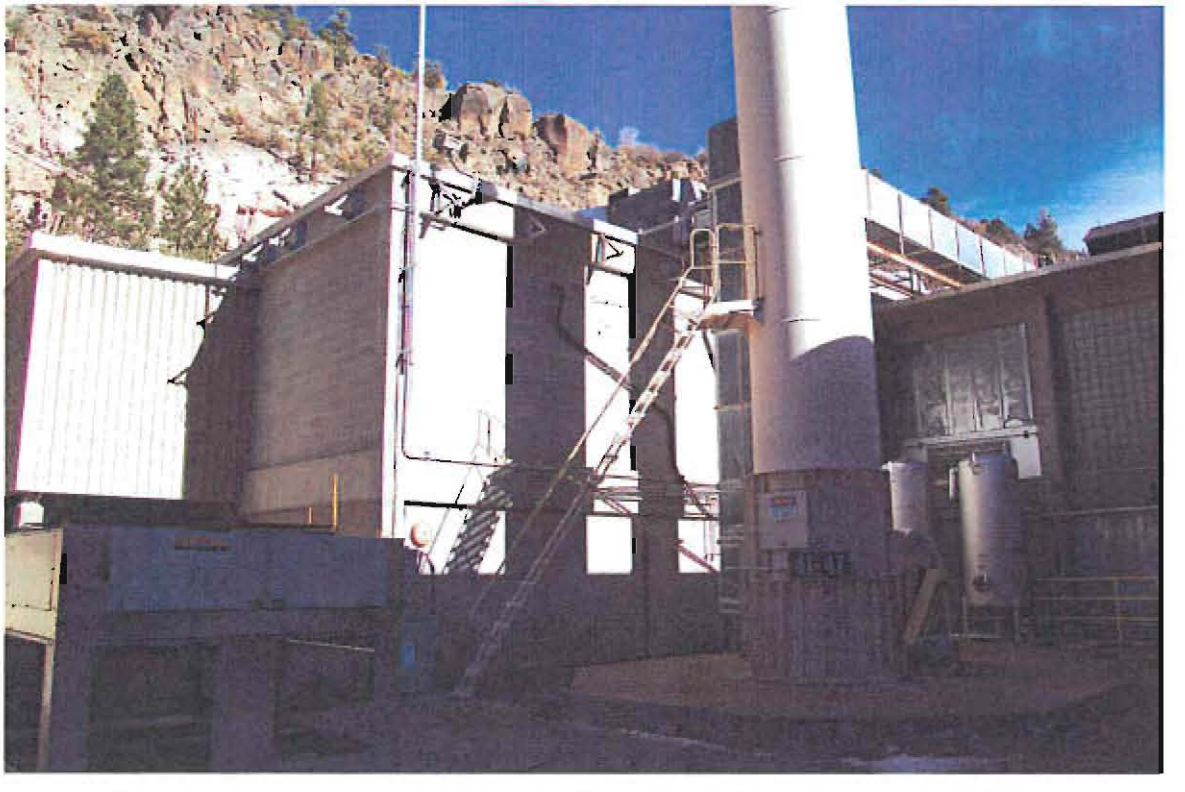
TA-41-4 Laboratory and Office Building, South and East Elevations



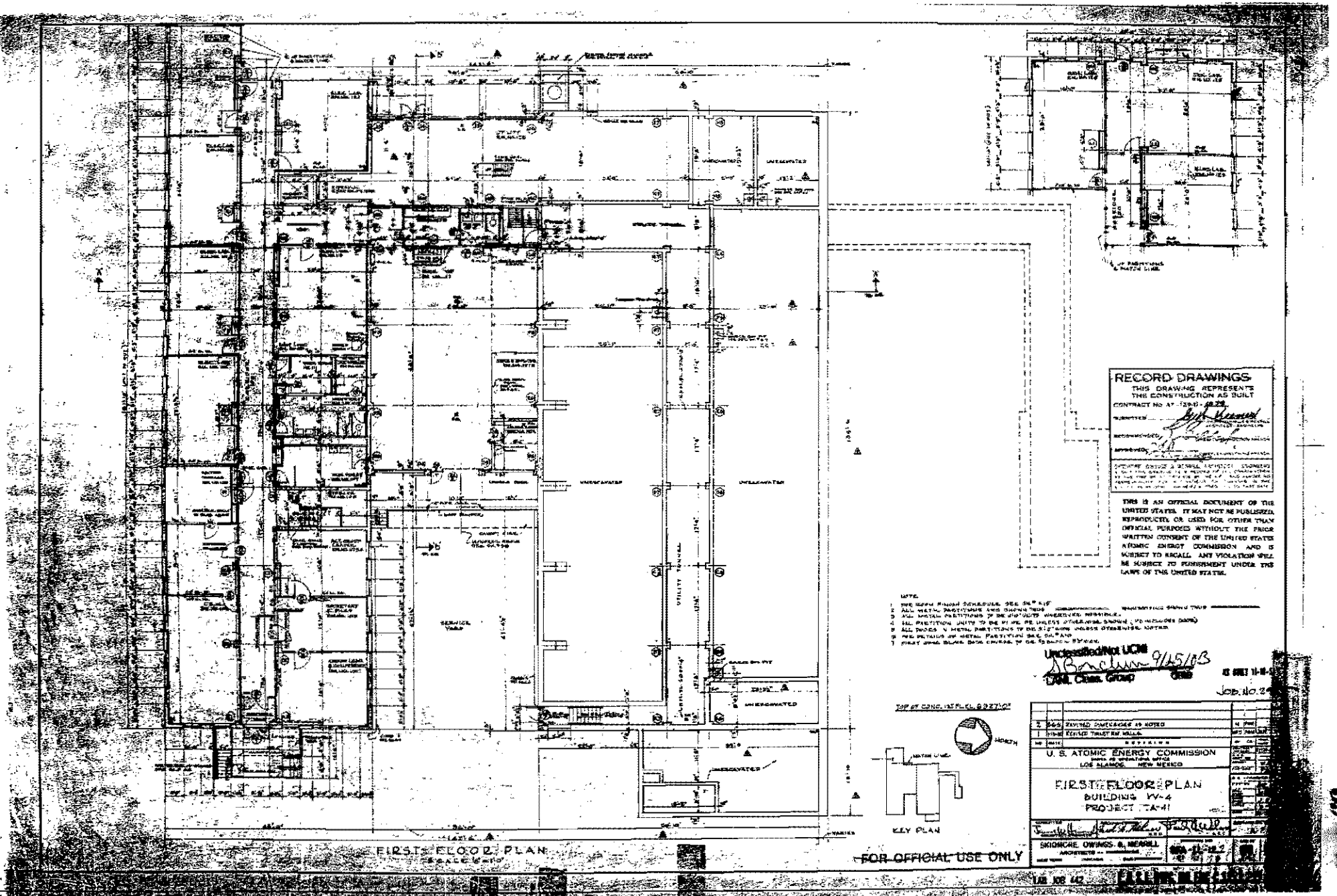
TA-41-4 Laboratory and Office Building, East Elevation



TA-41-4 Laboratory and Office Building, North Elevation of South Wing



TA-41-4 Laboratory and Office Building, South Elevation of North Wing


RECORD DRAWINGS
THIS DRAWING REPRESENTS THE CONSTRUCTION AS BUILT
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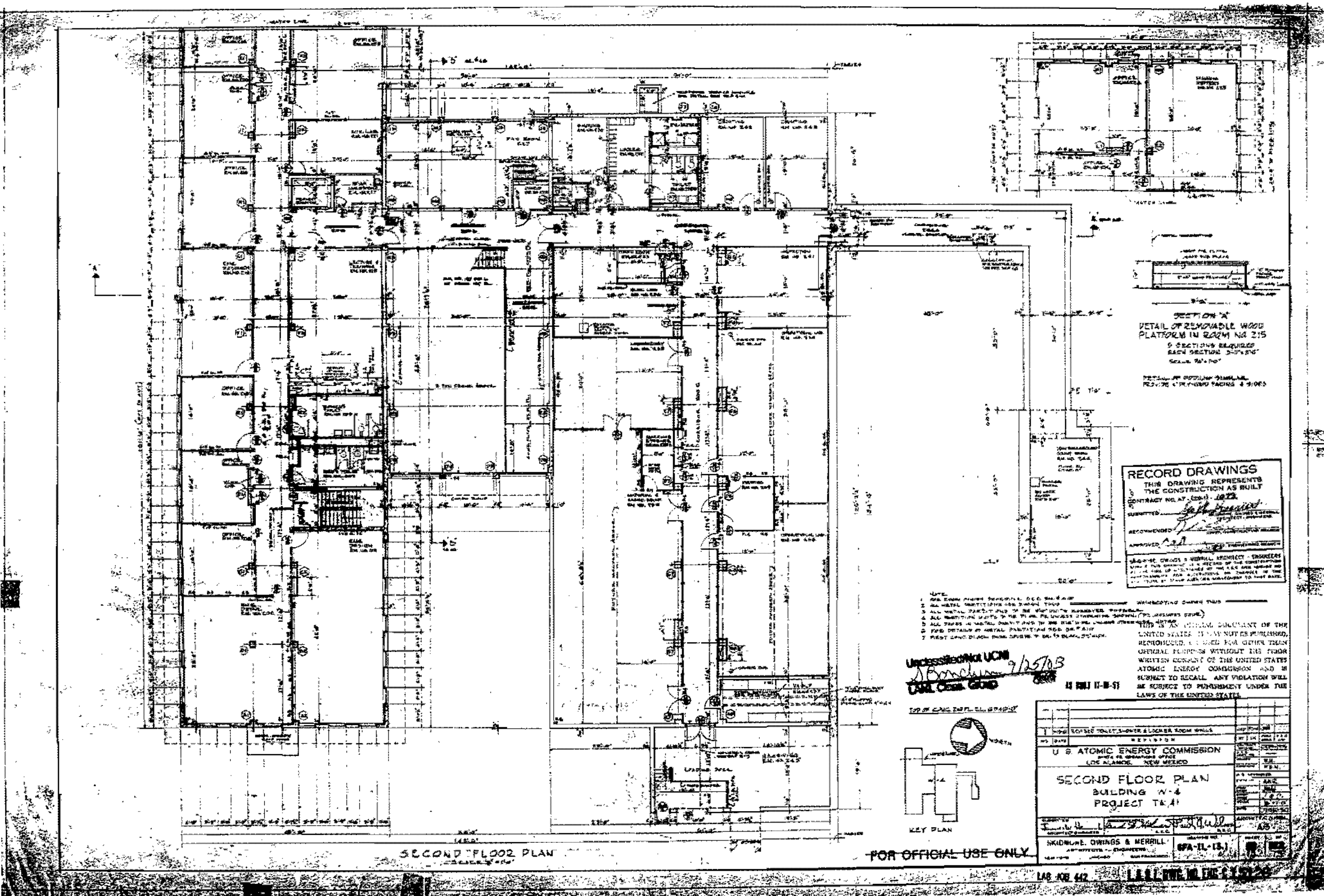
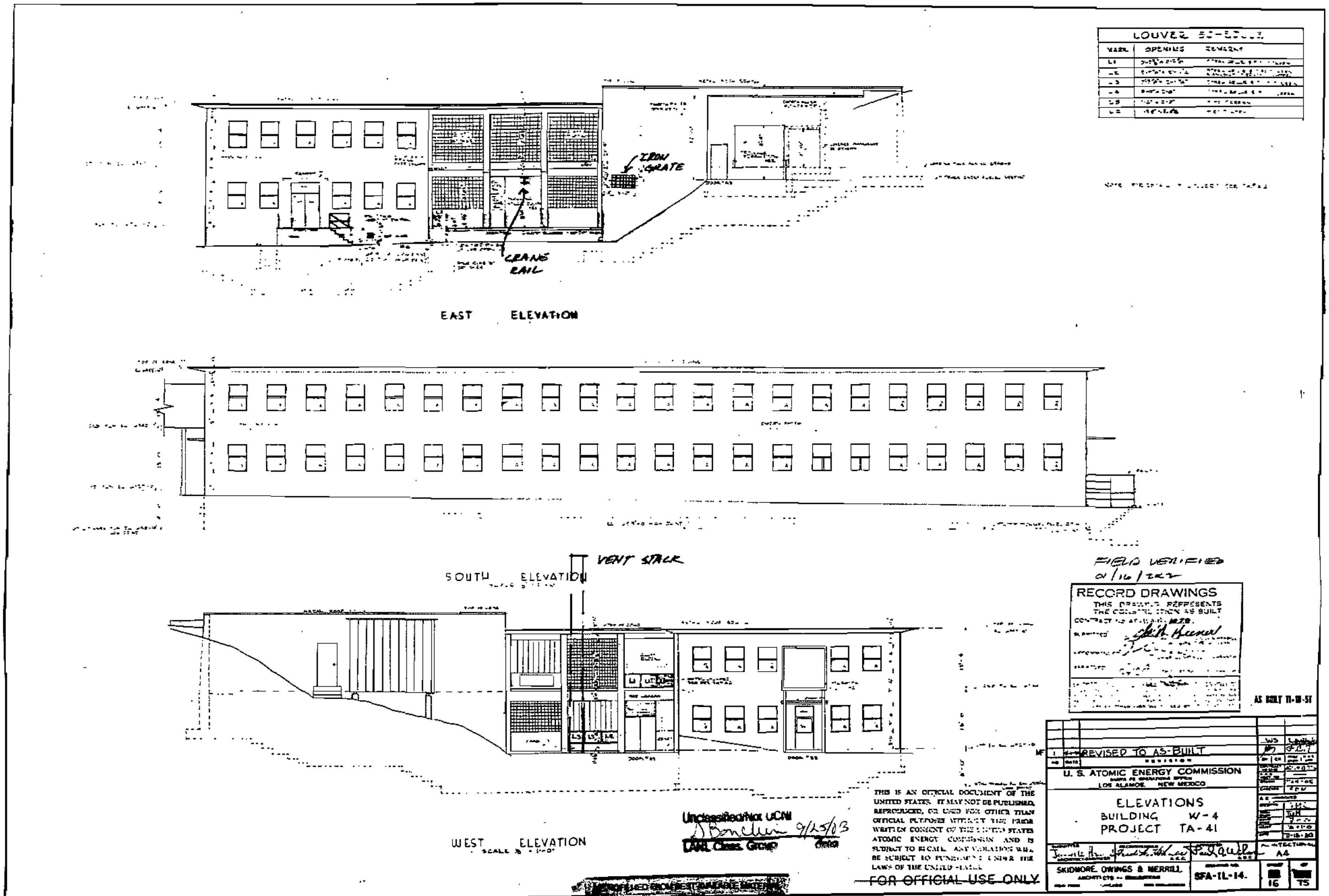
Unclassified/Not UCNI
Job. No. 2
U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS, NEW MEXICO
FIRST FLOOR PLAN
BUILDING W-4
PROJECT 7A-41
SKIDMORE, OWINGS & MERRILL
KEY PLAN
FIRST FLOOR PLAN
FOR OFFICIAL USE ONLY


RECORD DRAWINGS
THIS DRAWING REPRESENTS THE CONSTRUCTION AS BUILT
SECTION "A"
DETAIL OF REMOVABLE WOOD PLATFORM IN ROOM NO. 215
THIS IS AN OFFICIAL DOCUMENT OF THE UNITED STATES. IT MAY NOT BE PUBLISHED, REPRODUCED, OR USED FOR OTHER THAN OFFICIAL PURPOSES WITHOUT THE PRIOR WRITTEN CONSENT OF THE UNITED STATES ATOMIC ENERGY COMMISSION AND IS SUBJECT TO RECALL. ANY VIOLATION WILL BE SUBJECT TO PUNISHMENT UNDER THE LAWS OF THE UNITED STATES.
Unclassified/Not UCNI
LANL Class. Group
KEY PLAN
U S ATOMIC ENERGY COMMISSION
LOS ALAMOS, NEW MEXICO
SECOND FLOOR PLAN
BUILDING W-4
PROJECT TA-41
SKIDMORE, OWINGS & MERRILL
SECOND FLOOR PLAN
FOR OFFICIAL USE ONLY



LOUVER SCHEDULE
MARK
OPENING
REMARKS
IRON GRATE
CRANE RAIL
EAST ELEVATION
VENT STACK
SOUTH ELEVATION
WEST ELEVATION
FIELD VERIFIED
RECORD DRAWINGS
AS BUILT 11-19-51
REVISED TO AS-BUILT
U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS NEW MEXICO
ELEVATIONS
BUILDING W-4
PROJECT TA-41
SKIDMORE, OWINGS & MERRILL
SFA-1L-14.
A4
16
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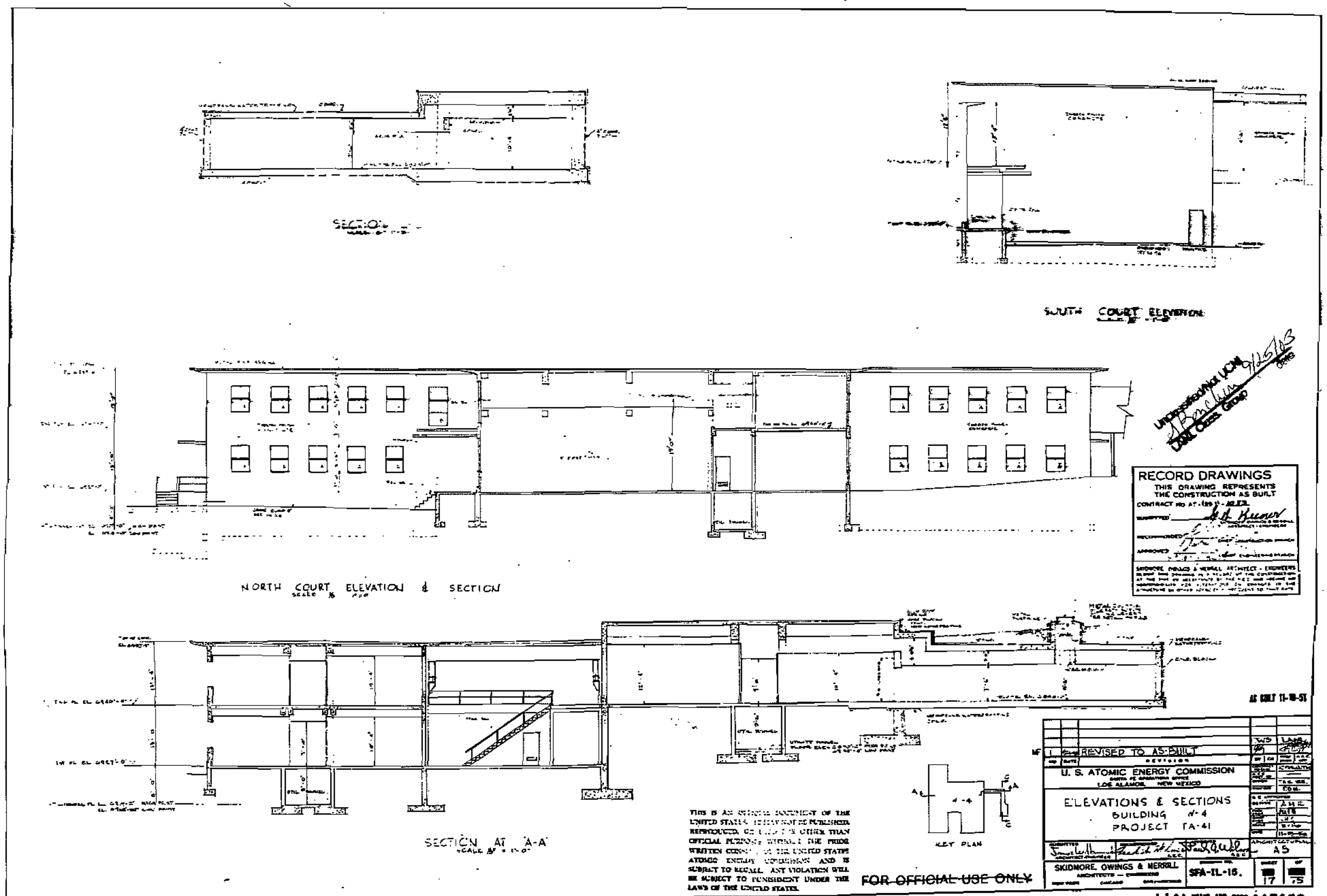
9/25/13
LANL Class. Group
C15127


SECTION
SOUTH COURT ELEVATION
NORTH COURT ELEVATION & SECTION
SECTION AT 'A-A'
Unclassified/Not UCNI
DOE Class. Group
RECORD DRAWINGS
THIS DRAWING REPRESENTS
THE CONSTRUCTION AS BUILT
KEY PLAN
AS BUILT 11-18-51
REVISED TO AS-BUILT
U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS NEW MEXICO
ELEVATIONS & SECTIONS
BUILDING 4
PROJECT TA-41
A5
SKIDMORE, OWINGS & MERRILL
SFA-IL-15.
17
75
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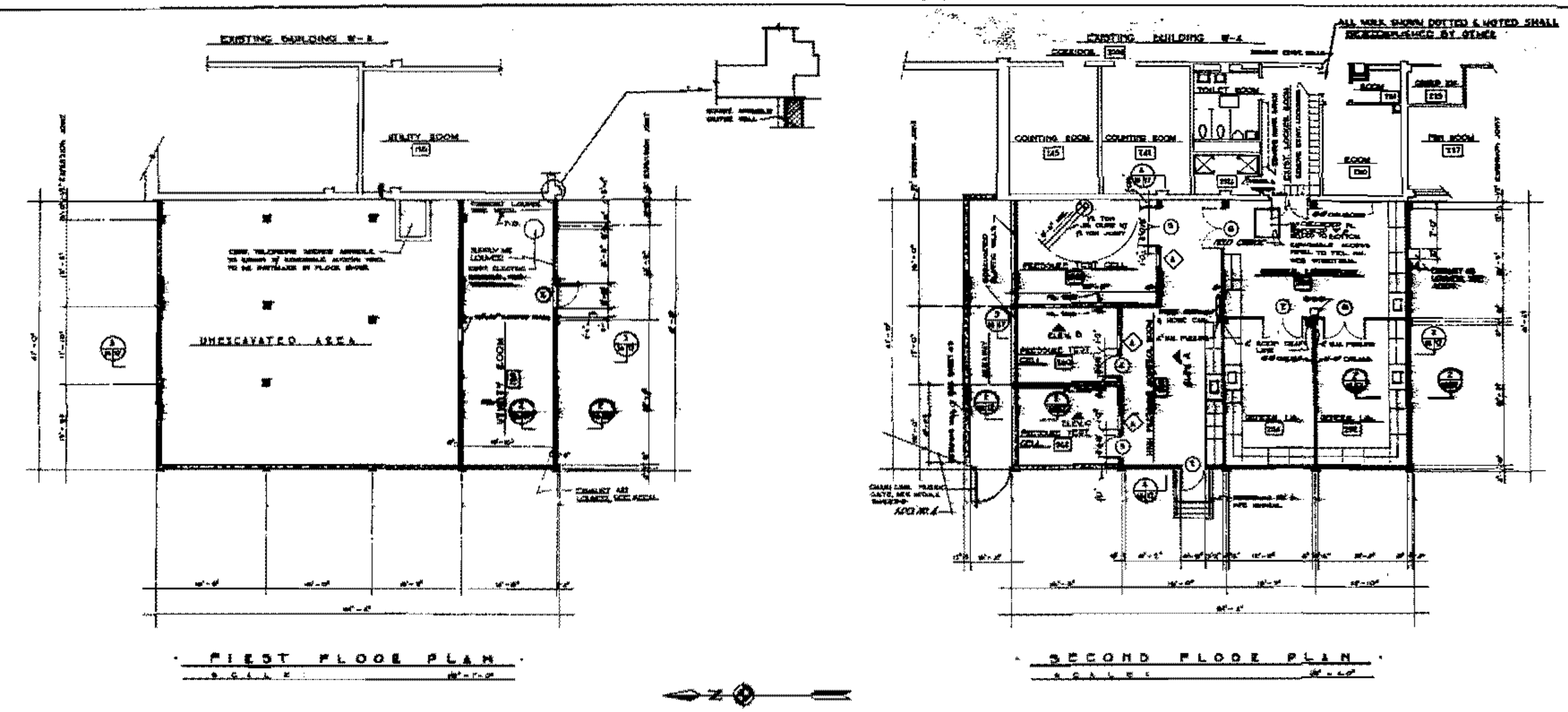


NOTE:
FLOOR LEVEL OF EXISTING BUILDING W-4 SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION COMMENCES ON W-4 ANNEX.

ABBREVIATIONS:

CHALKBD	—CHALKBOARD
EXTING.	—EXTINGUISHER
F.D.	—FLOOR DRAIN
LAB.	—LABORATORY
M.H.	—MANHOLE
M.U.	—MASONRY UNITS
N.I.C.	—NOT IN CONTRACT
TEL.	—TELEPHONE

WINDOW IN PROCURE TEST CELL ROOMS

· ROOM FINISH SCHEDULE ·

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT	WALL	CEILING	REMARKS
[illegible]	UTILITY ROOM	C.			C/MAS.	C.	
[illegible]	GENERAL LABORATORY	A.T.	V.A.		C/MAS.	ACT	
[illegible]	[illegible] LABORATORY	A.T.	V.A.		MAS.	ACT	
[illegible]	GENERAL LABORATORY	A.T.	V.A.		MAS.	ACT	
[illegible]	[illegible] CONTROL ROOM	A.T.	V.A.		C/MAS.	ACT	
[illegible]	[illegible] TEST CELL	C.			C.	ACT	[illegible]
[illegible]	[illegible] TEST CELL	C.			C.	ACT	[illegible]
[illegible]	[illegible] TEST CELL	C.			C.	ACT	[illegible]

· DOOR SCHEDULE ·

DOOR NO.	DOOR TYPE	FRAME TYPE	THRESHOLD	HARDWARE SET	ROOM IDENTIFICATION
1	[illegible]	[illegible]	METAL	[illegible]	
2	[illegible]	[illegible]	METAL	[illegible]	
3	[illegible]	[illegible]		[illegible]	[illegible]
4	[illegible]	[illegible]		[illegible]	[illegible]
5	[illegible]	[illegible]		[illegible]	[illegible]
6	[illegible]	[illegible]		[illegible]	[illegible]
7	[illegible]	[illegible]		[illegible]	
8	[illegible]	[illegible]		[illegible]	

DOES NOT CONTAIN
OFFICIAL USE ONLY INFORMATION
Name/Org.: Jill Hefele/S-7 Date: 5/25/04

AS CONSTRUCTED DRAWINGS
CONTRACT NO. AT(29-1)-1047
DAVIS, FOSTER, THORPE AND ASSOCIATES
SUBMITTED: ________ DATE: ________
RECOMMENDED: ________
APPROVED: ________

REVISIONS

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

ENGINEERING & LABORATORY BUILDING
ARCHITECTURAL
FIRST & SECOND FLOOR
PLANS & SCHEDULES
W-4 ANNEX TA-41

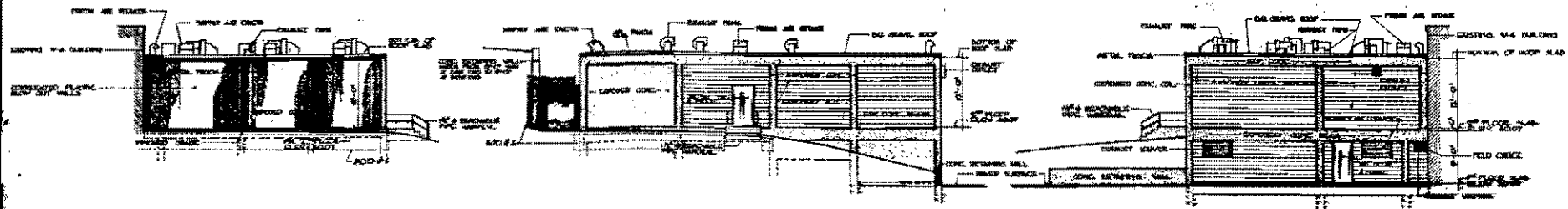
DAVIS, FOSTER, THORPE AND ASSOCIATES

LA-CI-114 14 50

AS BUILT DRAWING

LAB. JOB. - 1849

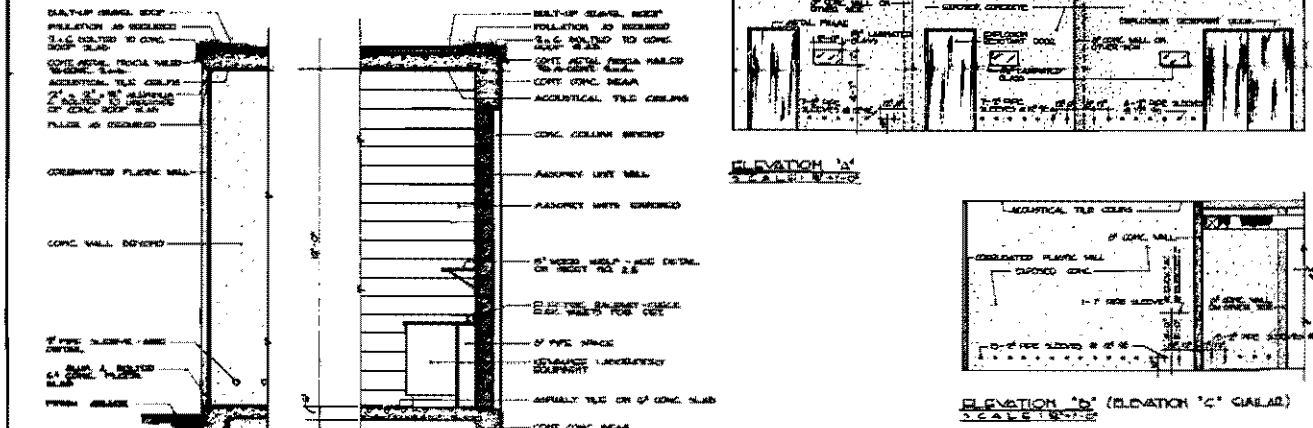
L.A.S.L. DWG. NO. ENG-C 23858



NORTH ELEVATION

WEST ELEVATION

SOUTH ELEVATION

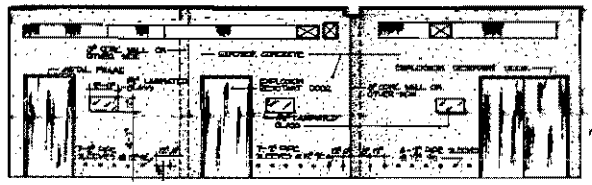


SECTION

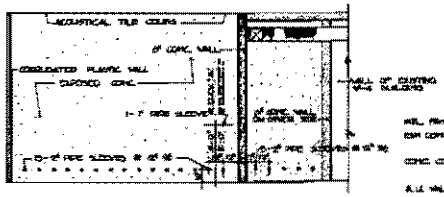
LAP DETAIL

SILL (LAP SIDING) CORRUGATED PLASTIC DET

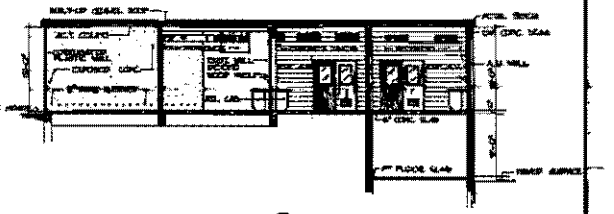
SECTION



ELEVATION 'A'



ELEVATION 'B' (ELEVATION 'C' SIMILAR)



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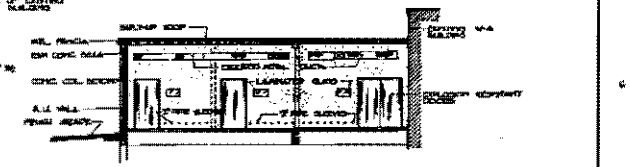
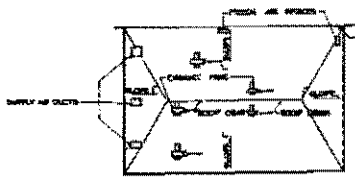


SECTION

ABBREVIATIONS

ACT.	ACOUSTICAL TILE
DET	DETAIL
DR.	DOOR
ALL	MASONRY UNITS



ROOF PLAN

DOES NOT CONTAIN
OFFICIAL USE ONLY INFORMATION
Name/Org.: Jill Hefele/S-7 Date: 5/25/04

AS CONSTRUCTED DRAWING
CONTRACT NO. AT(29-1-1049
DAVIS, FOSTER, THORPE AND ASSOCIATES

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

ENGINEERING & LABORATORY BUILDING
ARCHITECTURAL
ELEVATIONS & SECTIONS
W-4 ANNEX TA-41

DAVIS, FOSTER, THORPE AND ASSOCIATES

LA-CI-117 17 90

U.S. ATOMIC ENERGY COMMISSION DRAWING

LAS JOB. - 1849 L.A.S.L. DWG. NO. ENG-D 23861

ROOM INFORMATION CHART

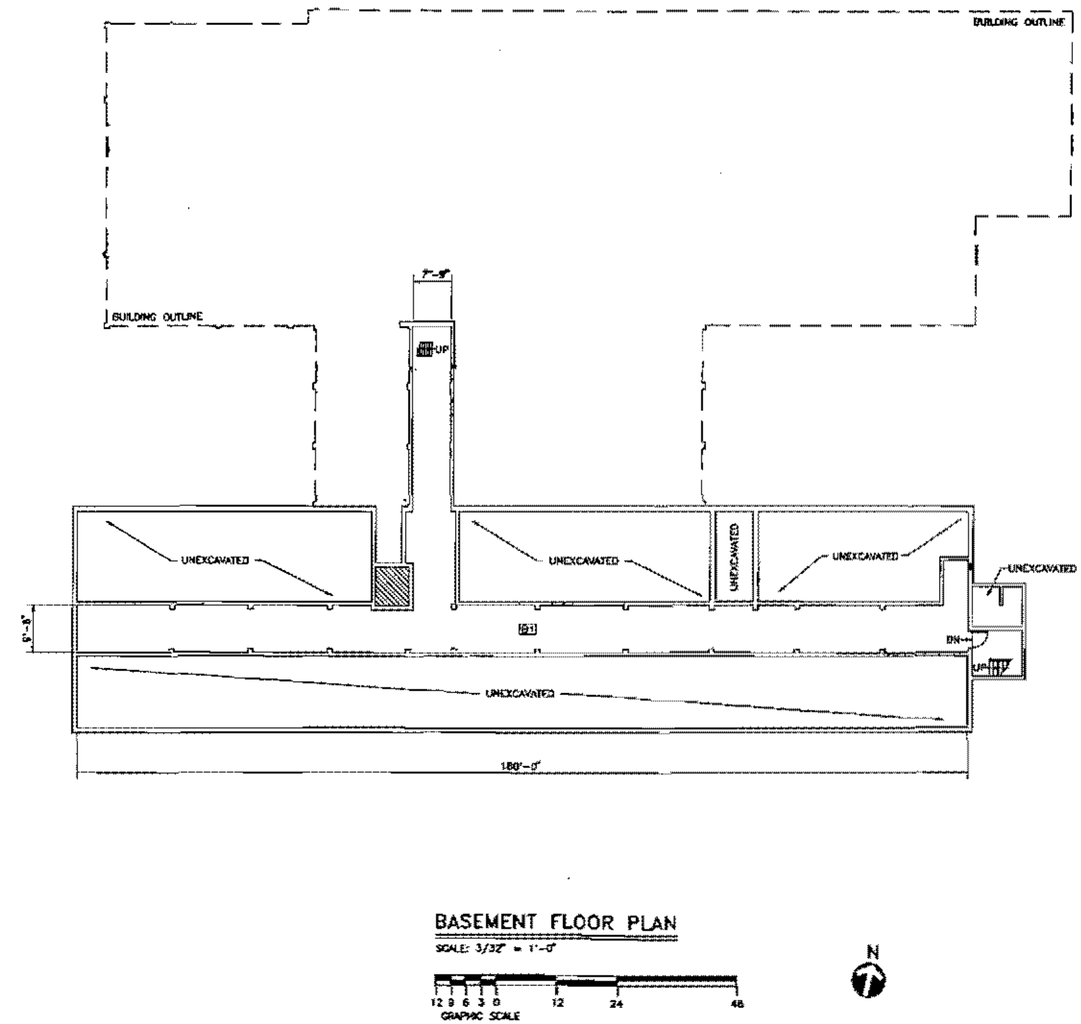
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
B1	2,212	UTILITY	66		

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 2,278

GROSS SQUARE FOOTAGE (THIS SHEET) = 2,666

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 37,434

GROSS SQUARE FOOTAGE (BUILDING) = 40,565



LEGEND

- CONCRETE
- COLUMN
- LOUVER
- UTILITY

NOTES

1. REFERENCE DRAWINGS ENG-R5A-8-28.1 AND R3139.
2. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
3. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS; FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.
4. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.

NO	DATE	CLASS REV	DESCRIPTION	DRWN	VER	CHKD	REL	SUB	REC	APP

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
LABORATORY BUILDING
ARCH: BASEMENT FLOOR PLAN

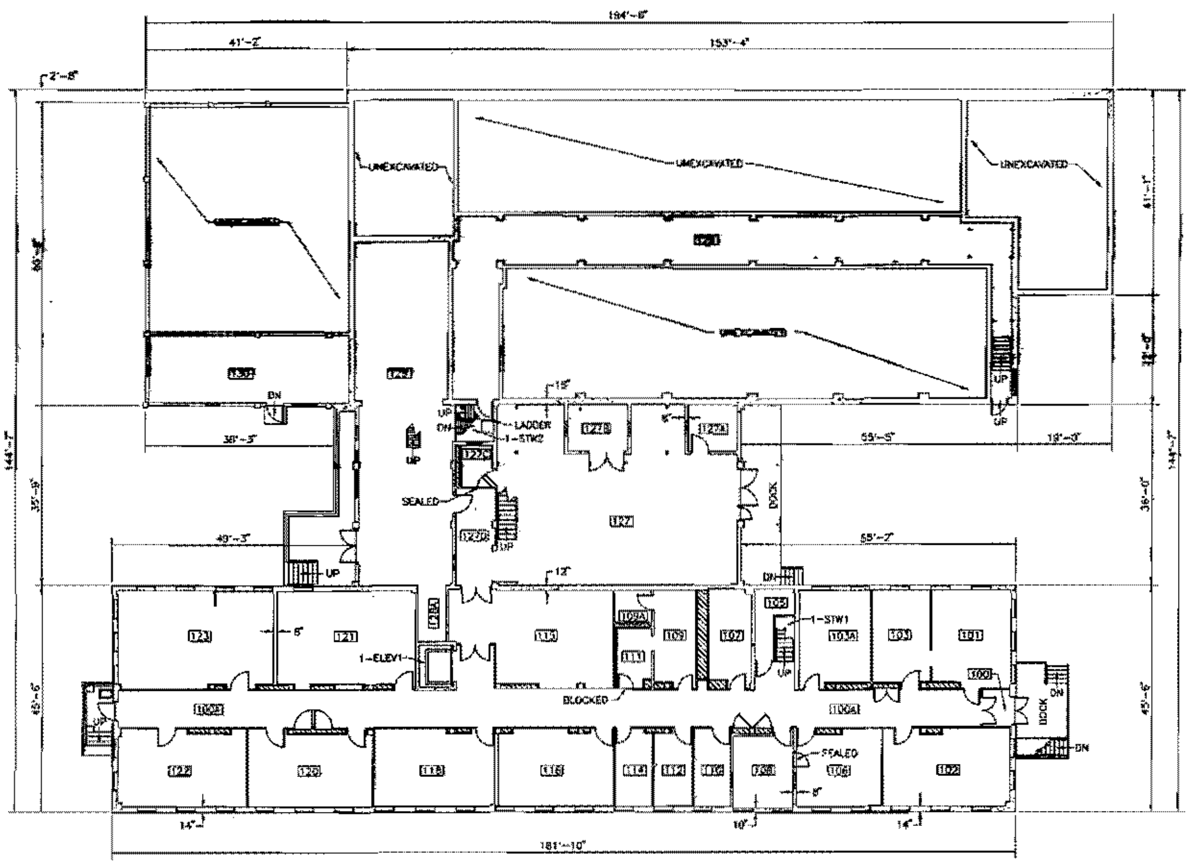
BLDG 04 TA-41

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

DATE 05-13-94 SHEET 1 / 3

FIELD VERIFIED 12-02-93

PROJECT ID 7556 DRAWING NO AB120



FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"

12 9 6 3 0 12 24 48
GRAPHIC SCALE

N

ROOM INFORMATION CHART					
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
100	44	110	125	127A	100
100A	1,458	111	85	127B	123
101	396	112	175	127C	35
102	394	114	121	127D	170
103	[illegible]	115	589	128	1,308
103A	[illegible]	116	373	128A	68
105	84	118	375	129	1,460
106	274	120	388	130	559
107	174	121	552	1-STW1	94
108	182	122	406	1-STW2	62
109	176	123	927	1-ELEV1	68
109A	37	127	1,558	UTILITY	214

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 13,298

GROSS SQUARE FOOTAGE (THIS SHEET) = 14,178

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 37,434

GROSS SQUARE FOOTAGE (BUILDING) = 40,585

LEGEND

- COLUMN
- CONCRETE
- CONCRETE BLOCK
- CHAIN LINK FENCE
- I BEAM
- LOUVER
- UTILITY SPACE
- [illegible]
- WOOD OR METAL STUD

NOTES

1. ALL EXTERIOR WALLS ARE 12" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 3" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R3440.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.
6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.

NO	DATE		DESCRIPTION	DWN	VER	CHKD	REL	SUB	REC	APP

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
LABORATORY BUILDING

ARCH. FIRST FLOOR PLAN

BLDG 04 TA-41

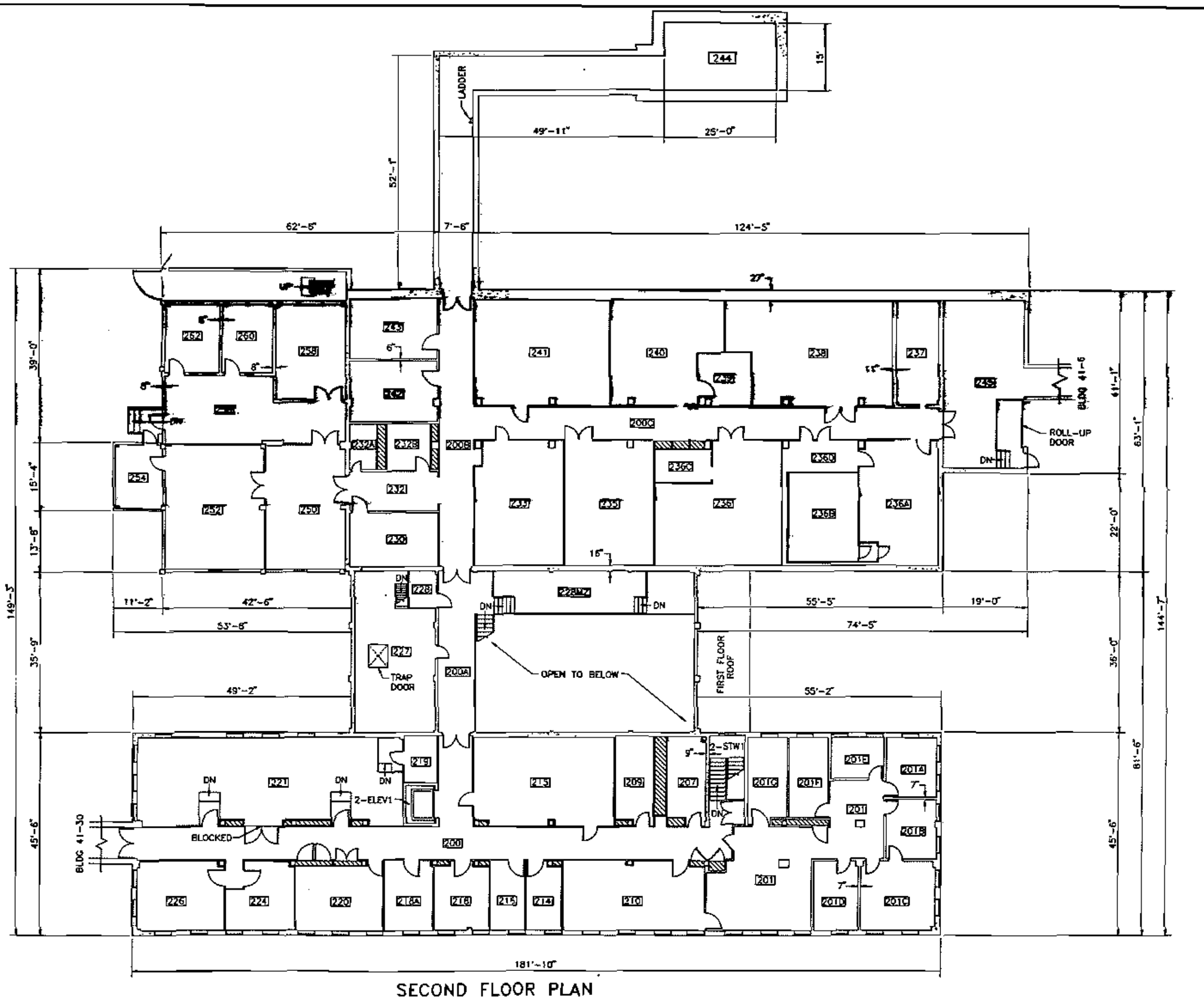
Los Alamos — Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET 2 — 2 of 3

PROJECT ID: 7556

DRAWING NO: AB120

FIELD VERIFIED 12-02-93



SECOND FLOOR PLAN

SCALE: 3/32" = 1'-0"

12 9 6 3 0 12 24 48
GRAPHIC SCALE

FIELD VERIFIED 12-02-93

ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
200	1,226	219	86	238	843
200A	321	220	293	239	144
200B	496	221	1,170	240	539
200C	798	224	220	241	715
201	764	226	305	242	290
201A	156	227	633	243	285
201B	158	228	59	244	1,099
201C	267	MZ228	494	245	701
201D	169	230	263	250	516
201E	118	232	192	252	631
201F	171	232A	73	254	158
201G	179	232B	109	256	547
207	178	233	567	258	370
209	176	235	574	260	209
210	495	236	686	262	207
214	123	236A	521	UTILITY	242
215	636	236B	347	2-ELEV1	67
216	125	236C	98	2-STW1	176
218	187	236D	129		
218A	176	237	247		

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 21,765

GROSS SQUARE FOOTAGE (THIS SHEET) = 23,710

TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 32,430

GROSS SQUARE FOOTAGE (BUILDING) = 40,365

LEGEND

- COLUMNS
- CONCRETE
- CONCRETE BLOCK
- CHAIN LINK FENCE
- MASONRY
- UTILITY SPACE
- WINDOW
- WOOD OR METAL STUD

NOTES

1. ALL EXTERIOR WALLS ARE 12" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 3" THICK UNLESS OTHERWISE NOTED.
3. REFERENCE DRAWING ENG-R3141.
4. ROOM NET SQUARE FOOTAGE IS COMPUTED BY MEASURING FROM THE INSIDE FACE OF EXTERIOR WALLS TO THE CENTERLINE OF ALL OTHER WALLS. AREAS SHOWN ARE ROUNDED TO THE NEAREST SQUARE FOOT.
5. GROSS SQUARE FOOTAGE IS EQUAL TO ALL FLOOR AREA (INCLUDING ALL OPENINGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR OR ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, ENCLOSED PASSAGES AND WALKS, FINISHED USABLE SPACE WITH SLOPING CEILINGS (SUCH AS ATTIC SPACES) HAVING 5 FEET OR MORE HEADROOM, AND APPENDED COVERED SHIPPING OR RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT. ALSO INCLUDED IN GROSS FLOOR AREA, BUT CALCULATED ON ONE-HALF OF ACTUAL FLOOR AREA, ARE COVERED OPEN PORCHES, PASSAGES AND WALKS, WITH APPENDED UNCOVERED RECEIVING AND SHIPPING PLATFORMS AT TRUCK AND RAILROAD HEIGHT.
6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.

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

JOHNSON CONTROLS WORLD SERVICES INC.

AS-BUILT RECORD FLOOR PLAN
LABORATORY BUILDING

ARCH: SECOND FLOOR PLAN

BLDG 04 TA-41

DRAWN / VERIFIED / CHECKED / RELEASED C. SANDOVAL / DATE 05-13-94

SUBMITTED JERRY FORTE / RECOMMENDED FRED THOMPSON 5/19/94 / APPROVED FRED THOMPSON 5/19/94

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

SHEET 3 — 3 of 3

CLASSIFICATION U REVIEWER T. GUSDORF DATE 5-18-94

PROJECT ID 7556 DRAWING NO AB120 REV

LANL TA- Building # 41-0006

Camera 984242

Frame #s DCP_0843 & DCP_0844, DCP_1093 through DCP_1097, DCP_1107 & DCP_1112

Surveyor(s) J. Ronquillo/K. Towery

Date 03/05/2002

Los Alamos National Laboratory CRMT
Historic Building Survey Form

Building Name Covered Passageway UTMs easting 382947 northing 3970885 zone 13

Legal Description: Map Guaje Mountain Quad 1984 tnsp 19N range 6E sec 15

Current Use/ Function Covered Passageway Original Use/ Function Covered Passageway

Date (estimated) 1950 Date (actual) 1951 Property Type Laboratory/Processing

Type of Construction

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

Other Type of Construction Concrete shear walls. # of Stories 1

Foundation Reinforced concrete.

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

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

Exterior Treatment (painted, stuccoed, etc) Unpainted concrete finish.

Exterior Features (docks, speakers, lights, signs, etc)

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

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

Exterior Treatment-Addition N/A

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Slight pitch.

Degree of Pitch/ Slope Slight

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

Other Roof Materials Concrete

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

Other Window Type N/A

# of Each Window Type/ Comments

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

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☑ Double ☐ Roll-up ☐ Sliding ☐

Hollow Metal ☑ Solid Wood ☐ 1/2 Glazed ☐ Paneled ☐
Louvered ☐ Painted ☐

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

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

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

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior Metal panels.

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

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling Minor

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

Associated Building ☑

If yes, list building names and #s: TA-41-1 (vault) and TA-41-4 (Laboratory/Office Building)

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) Metal panels on metals.

Total sq ft 938 Gross **Architect/ Builder** R.E. McKee

Alterations A guard station was attached toward the eastern end of the covered passageway in 1985.

List of Drawings (Cntrl + Enter for para break)

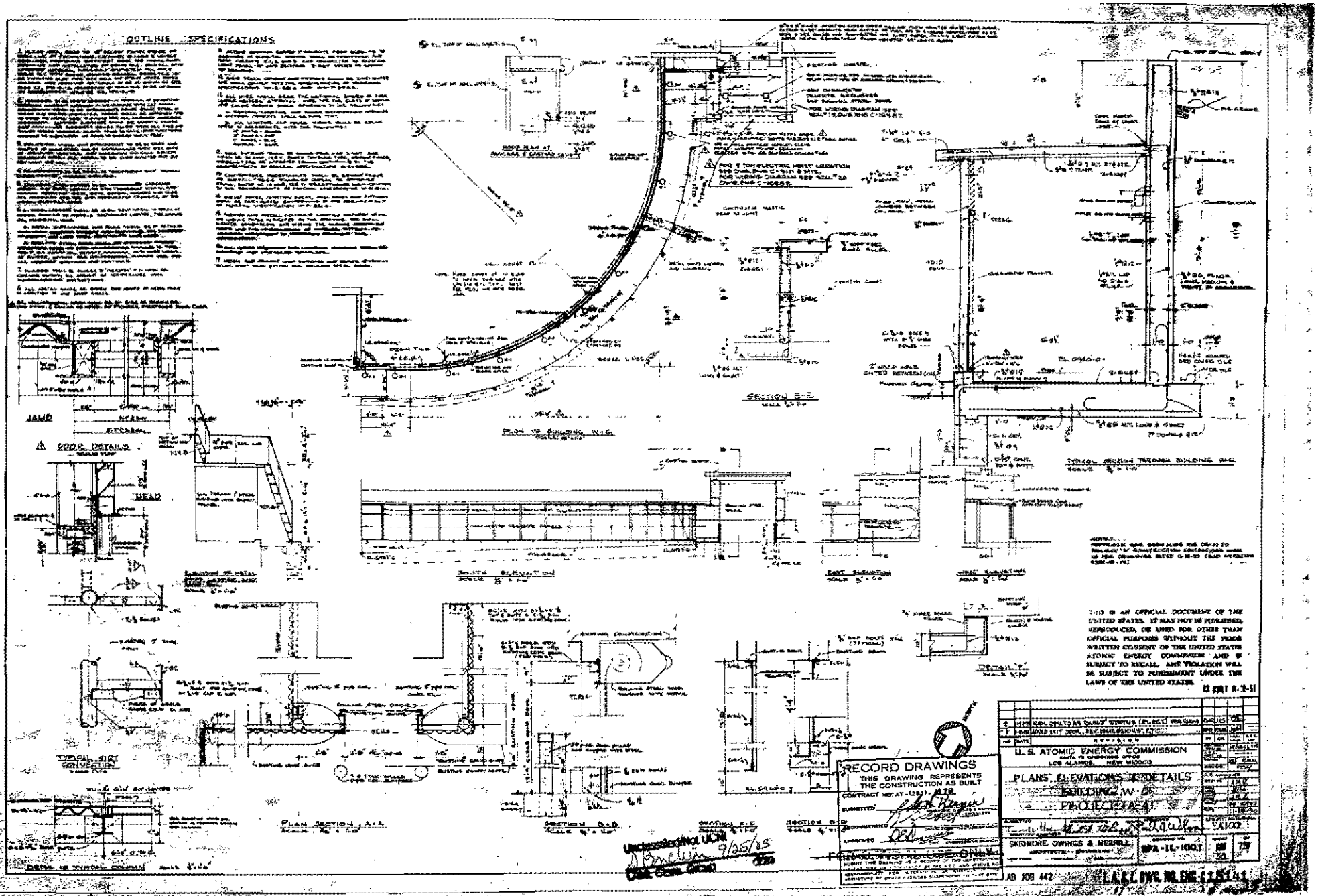
ENG-C 15141
Sheet 30 of 75
Project TA-41, Building W-6
Plans, Elevations & Details
November 28, 1950

ENG-R 3143
Covered Passageway
TA-41, Passageway W-6
Floor Plan
September 28, 1983
Revised February 6, 1984

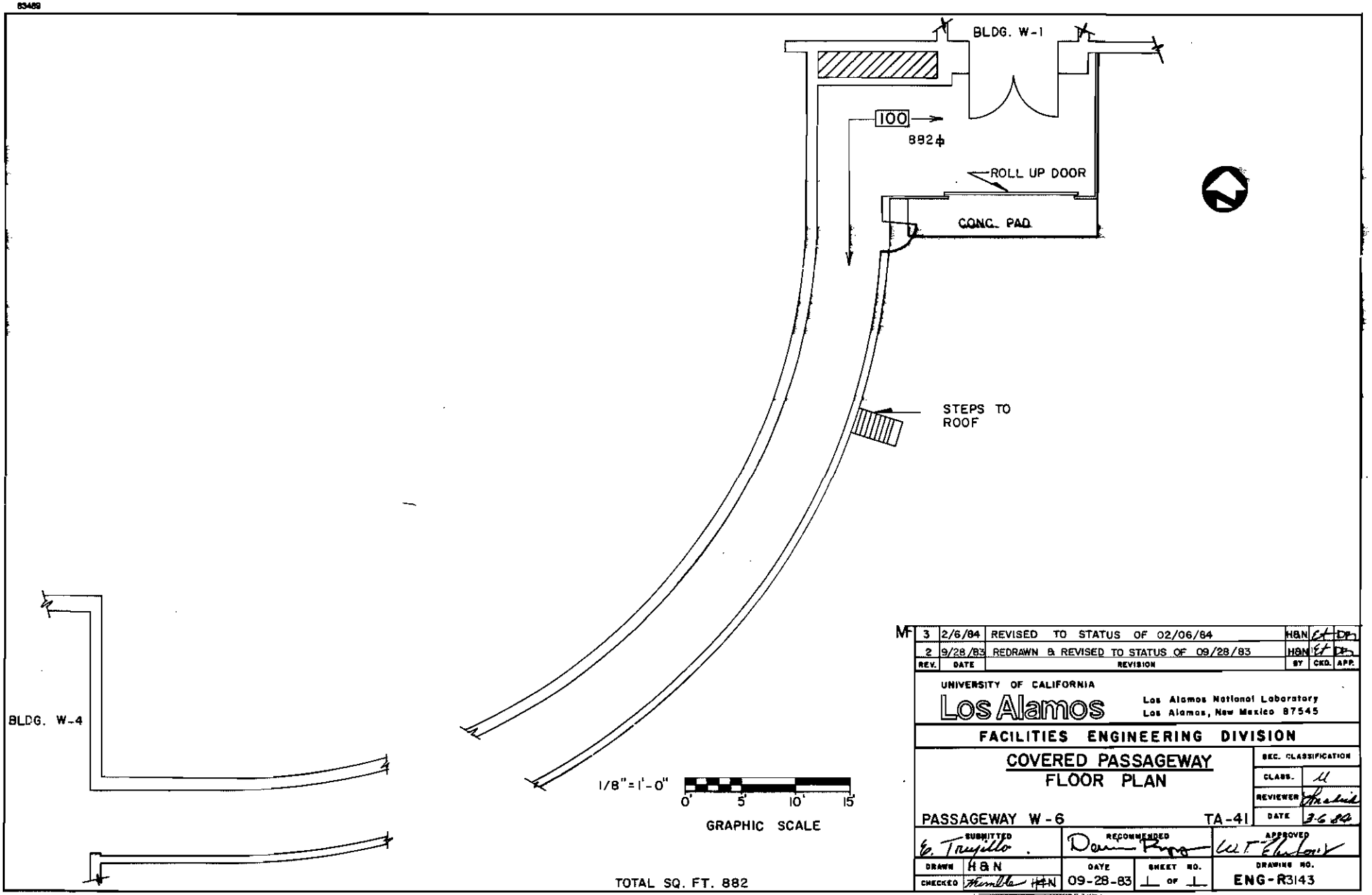
ENG-C 44544
Sheet 4 of 10
Safeguards and Security Upgrades Phase 1
Structure Hardening Monitoring Station
Architecture: Plans, Elevations & Details
August 6, 1985

TA-41-6 Passageway, Connecting Building TA-41-4 (on left)
to Building TA-41-1, South Elevation

TA-41-6 Passageway, Connecting Building TA-41-1 (on right)
to building TA-41-4, South Elevation


OUTLINE SPECIFICATIONS
RECORD DRAWINGS
THIS DRAWING REPRESENTS THE CONSTRUCTION AS BUILT
U.S. ATOMIC ENERGY COMMISSION
LOS ALAMOS, NEW MEXICO
PLANS, ELEVATIONS & DETAILS
BUILDING W-6
PROJECT A-51
SKIDMORE OWINGS & MERRILL
THIS IS AN OFFICIAL DOCUMENT OF THE UNITED STATES. IT MAY NOT BE PUBLISHED, REPRODUCED, OR USED FOR OTHER THAN OFFICIAL PURPOSES WITHOUT THE PRIOR WRITTEN CONSENT OF THE UNITED STATES ATOMIC ENERGY COMMISSION AND IS SUBJECT TO RECALL. ANY VIOLATION WILL BE SUBJECT TO PUNISHMENT UNDER THE LAWS OF THE UNITED STATES.

83489



TOTAL SQ. FT. 882

REV.	DATE	REVISION	BY	CKD.	APP.
3	2/6/84	REVISED TO STATUS OF 02/06/84	H&N		
2	9/28/83	REDRAWN & REVISED TO STATUS OF 09/28/83	H&N		

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

FACILITIES ENGINEERING DIVISION

COVERED PASSAGEWAY
FLOOR PLAN

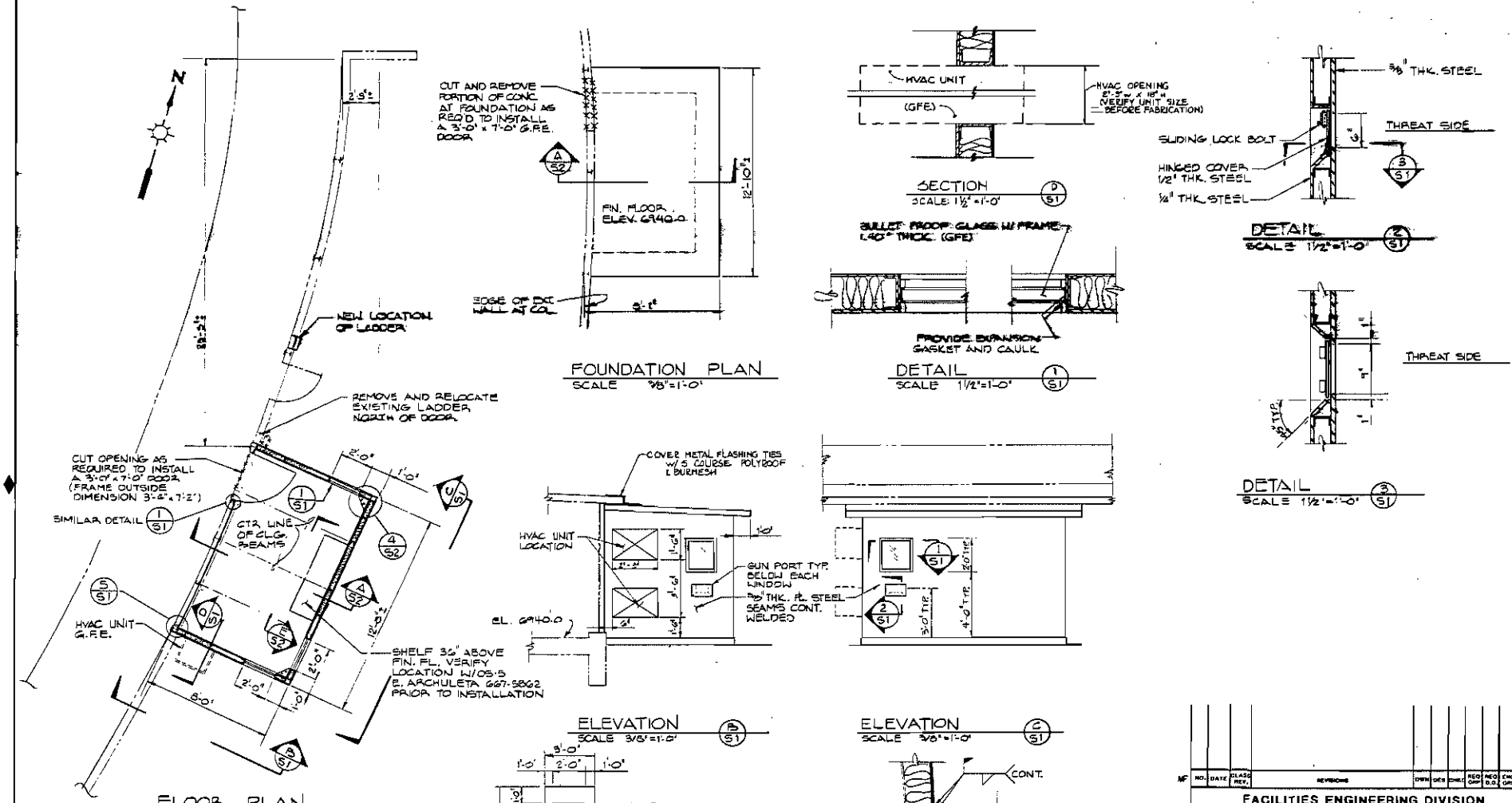
PASSAGEWAY W-6 TA-41

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

SUBMITTED	RECOMMENDED	APPROVED
E. Trujillo		

DRAWN	CHECKED	DATE	SHEET NO.	DRAWING NO.
H&N	H&N	09-28-83	1 OF 1	ENG-R3143

REC'D ..... LOGGED ✓ TO VAULT 3/30/84



NO.	DATE	CLASS REV.	REVISIONS	DRWN	DES	CHKD	REQ COMP	REQ D.O.	ENG COMP	ENG D.O.

FACILITIES ENGINEERING DIVISION

SAFEGUARDS AND SECURITY UPGRADES PHASE I, STRUCTURE HARDENING, MONITORING STATION

ARCH: PLANS ELEVATIONS & DETAILS

BLDG. W-6 TA-41

DRAWN	E. Trujillo
DESIGN	E. Trujillo
CHECKED	M. Reynolds
RELEASED	A. Peters
DATE	8-6-85

SUBMITTED Michael Reynolds | RECOMMENDED Bruce Herrera | APPROVED

Los Alamos National Laboratory, Los Alamos, New Mexico 87545

SHEET S1 4 OF 10

CLASSIFICATION U | REVIEWER Bruce Herrera | DATE 7-31-85

RECORDS CLASS 05-00 | LAB JOB NO. 8067-41 PHASE B | DRAWING NO. ENG-C 44544 | REV.

RECORDING GROUP 05-1

LANL TA- Building # 41-0016

Camera 984242

Frame #s DCP_1076 through DCP_1079

Surveyor(s) J.Ronquillo/K.Towery

Date 03/05/2002

Los Alamos National Laboratory CRMT
Historic Building Survey Form

Building Name Guard Station #207 UTMs easting 382759 northing 3970831 zone 13

Legal Description: Map Guaje Mountain Quad, 1984 tnsp 19N range 6E sec 15

Current Use/ Function Unoccupied Original Use/ Function Guard Station

Date (estimated) 1950 Date (actual) 1952 Property Type Security

Type of Construction

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

Other Type of Construction Unpainted concrete walls. # of Stories 1

Foundation Reinforced concrete.

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

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

Exterior Treatment (painted, stuccoed, etc) Unpainted concrete with 1 personnel door located on the south side. There is a 3 foot concrete overhang around the perimeter of the building.

Exterior Features (docks, speakers, lights, signs, etc) Concrete overhang.

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

Steel (corrugated)-Addition ☐ Asbestos Shingles-Addition ☐ Other- Addition None

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed ☐ Gable ☐ Other Roof Type Flat with slight pitch.

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 Steel Sash Awning

# of Each Window Type/ Comments

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

Light Pattern One window is 3 over 2 and three windows are 3 over 4.

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

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

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

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

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☑

CMU- Interior ☐ Plywood ☐ Other- Interior

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

Ceiling Drop Ceiling ☑

Interior Comments (Equipment, etc) The ceiling for the most part is an exposed concrete structure but a portion of it is dropped forming a soffit for running electrical conduit.

Degree of Remodeling Minor

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

Associated Building ☐

If yes, list building names and #s: TA-41-1, vault; TA-41-2, guard station; TA-41-4 office building; TA-41-6, covered passageway.

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) Typical guard station architectural style of unpainted concrete exterior exhibiting simple design lines; "form follows function".

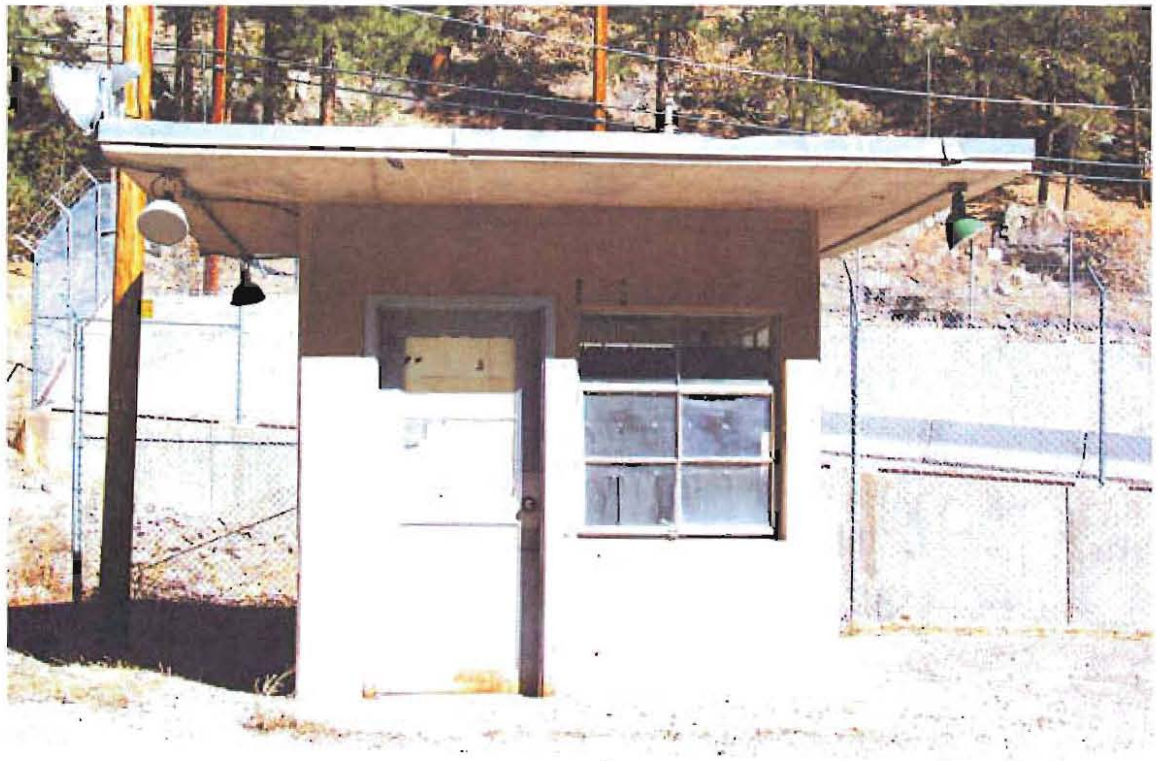
Total sq ft 87 Gross **Architect/ Builder** Contractor: Claremont Construction

Alterations

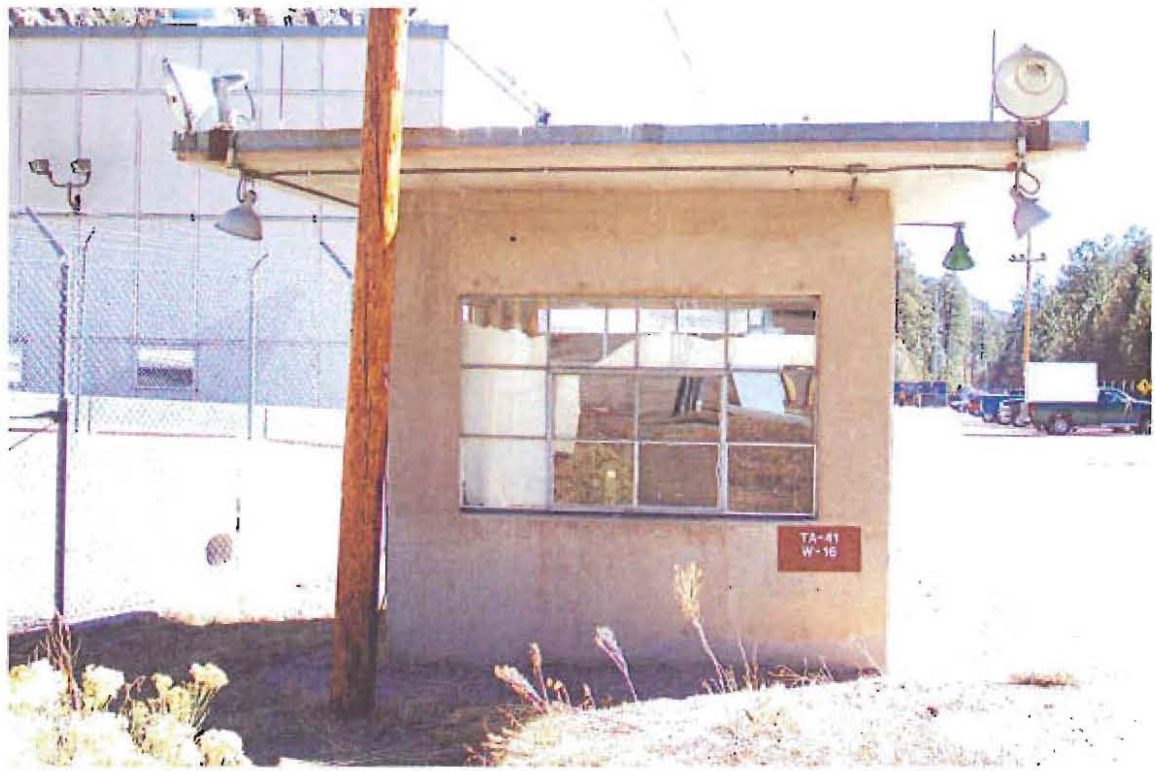
List of Drawings (Cntrl + Enter for para break)

ENG-C 15110
Sheet 2 of 2
W-Site, TA-41
W-16 Guard Station
Guardhouse
Plan and Details
November 13, 1951

ENG-R 3144
TA-41, Building 16
Guard House
Floor Plan
March 6, 1984



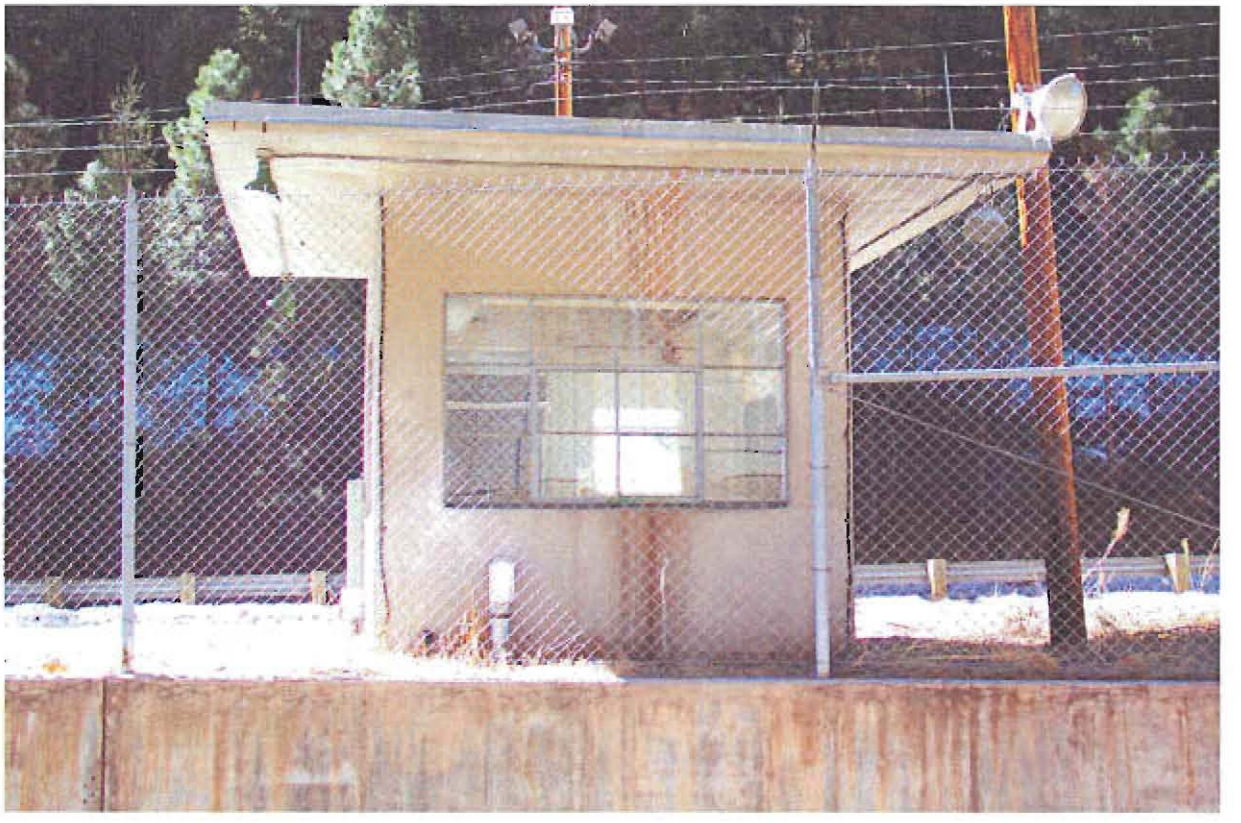
TA-41-16 Guard Station, South Elevation



TA-41-16 Guard Station, West Elevation

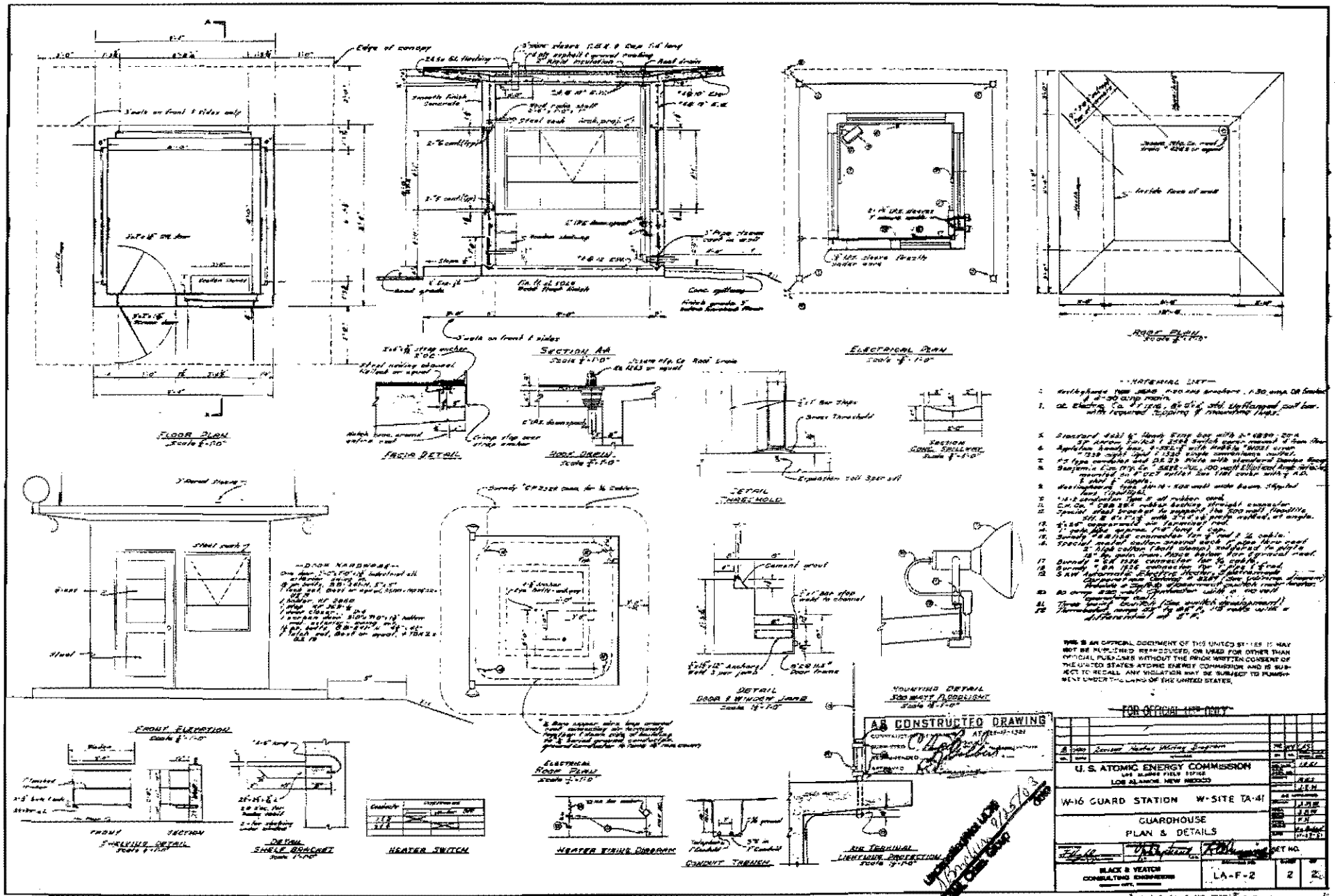
TA-41-16 Guard Station, North Elevation

TA-41-16 Guard Station, East Elevation

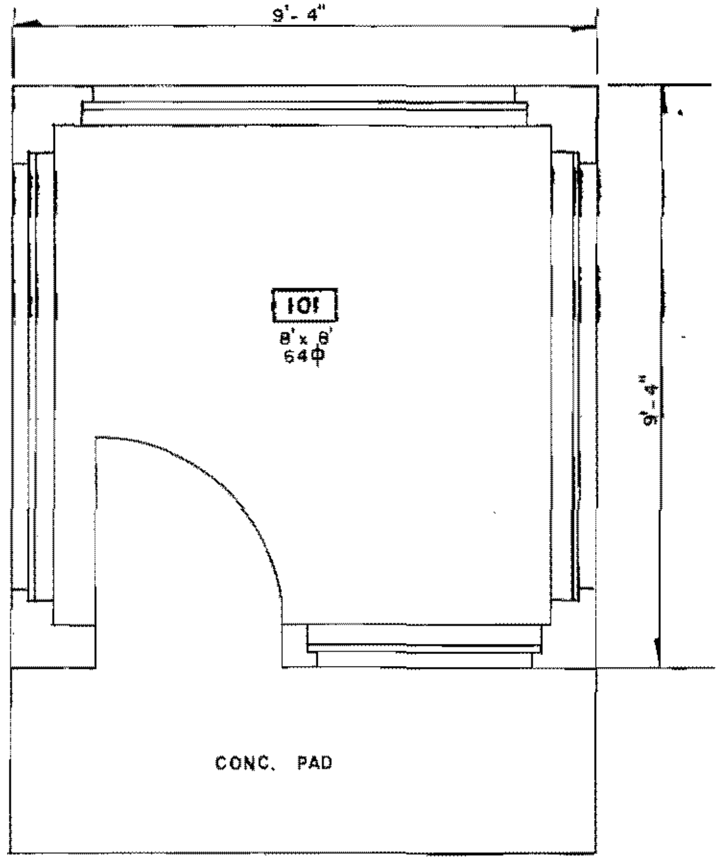


TA-41-16 Guard Station, North Elevation

TA-41-16 Guard Station, East Elevation


FLOOR PLAN
Scale ¼"-1'-0"
SECTION A-A
Scale ¼"-1'-0"
ROOF PLAN
Scale ¼"-1'-0"
FASCIA DETAIL
ROOF DRAIN
Scale 3"-1'-0"
ELECTRICAL PLAN
Scale ¼"-1'-0"
SECTION
CONC. SPILLWAY
Scale ½"-1'-0"
DETAIL
THRESHOLD
DOOR HARDWARE
DETAIL
DOOR & WINDOW JAMB
Scale 1½"-1'-0"
MOUNTING DETAIL
500 WATT FLOODLIGHT
Scale ¾"-1'-0"
FRONT ELEVATION
Scale ½"-1'-0"
FRONT
SECTION
DETAIL
SHELF BRACKET
Scale 1"-1'-0"
HEATER SWITCH
ELECTRICAL
ROOF PLAN
Scale ½"-1'-0"
HEATER WIRING DIAGRAM
CONDUIT TRENCH
SIX TERMINAL
LIGHTNING PROTECTION
Scale ½"-1'-0"
MATERIAL LIST
DOOR HARDWARE
AS CONSTRUCTED DRAWING
FOR OFFICIAL USE ONLY
U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS FIELD OFFICE
LOS ALAMOS, NEW MEXICO
W-16 GUARD STATION W-SITE TA-41
GUARDHOUSE
PLAN & DETAILS
BLACK & VEATCH
CONSULTING ENGINEERS
LA-F-2
SHEET NO.
2
2
L.A.L. DWG. NO. DIC-15110

8348V



TOTAL $\frac{ft^2}{64}$

MF

REV.	DATE	REVISION	BY	CKD.	APR.
2	2/6/84	REVISED TO STATUS OF 2/6/84	HBN		DP
1	9/28/83	REDRAWN & REVISED TO STATUS OF 09/28/83	HBN		DP

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

FACILITIES ENGINEERING DIVISION

GUARD HOUSE
FLOOR PLAN

BLDG. W-16 TA-41

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

SUBMITTED | RECOMMENDED | APPROVED

DRAWN H B N
CHECKED HBN
DATE 9-28-83
SHEET NO. 1 OF 1
DRAWING NO. ENG-R3144

REC'D ...... LOGGED ✓ TO VAULT

LANL TA- Building # 41-0047

Camera 984242

Frame #s DCP_0770 and DCP_0771

Surveyor(s) K.Towery/J.Ronquillo

Date 01/17/2002

Los Alamos National Laboratory CRMT
Historic Building Survey Form

Building Name Exhaust Stack UTMs easting 382877 northing 3970862 zone 13

Legal Description: Map Guaje Mountain Quad 1984 tnsp 19N range 6E sec 15

Current Use/ Function Exhaust Stack Original Use/ Function Exhaust Stack

Date (estimated) Date (actual) Property Type Support

Type of Construction

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

Other Type of Construction 12" steel stack approx. 60' high adjacent to the west side of TA-41-4. # of Stories

Foundation Reinforced Concrete.

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

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

Exterior Treatment (painted, stuccoed, etc) Painted.

Exterior Features (docks, speakers, lights, signs, etc)

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

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

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

Light Pattern

Door Type Personnel Door Types Exterior Fire Door ☐ Single ☐ Double ☐ Roll-up ☐ Sliding ☐

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

# of Each Door Type/Comments:

Interior Wall Gypsum Board ☐ Reinforced Concrete- Interior ☐

CMU- Interior ☐ Plywood ☐ Other- Interior

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

Ceiling Drop Ceiling ☐

Interior Comments (Equipment, etc)

Degree of Remodeling

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

Associated Building ☐

If yes, list building names and #s: Stack TA-41-47 serviced building TA-41-4.

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 TA-41-47 is approximately 13' southwest of TA-41-4. It is HEPA filtered providing ventilation to building TA-41-4.

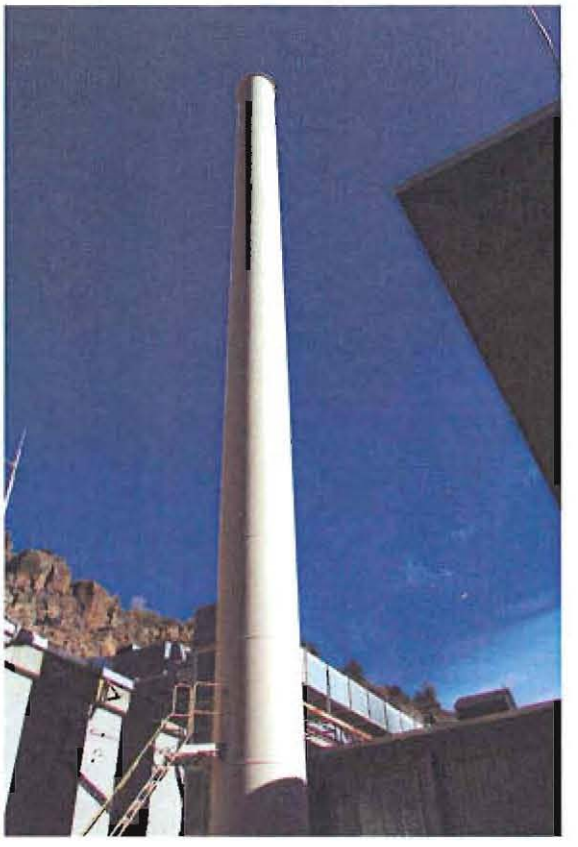
Architectural Features (elevations)

Total sq ft **Architect/ Builder**

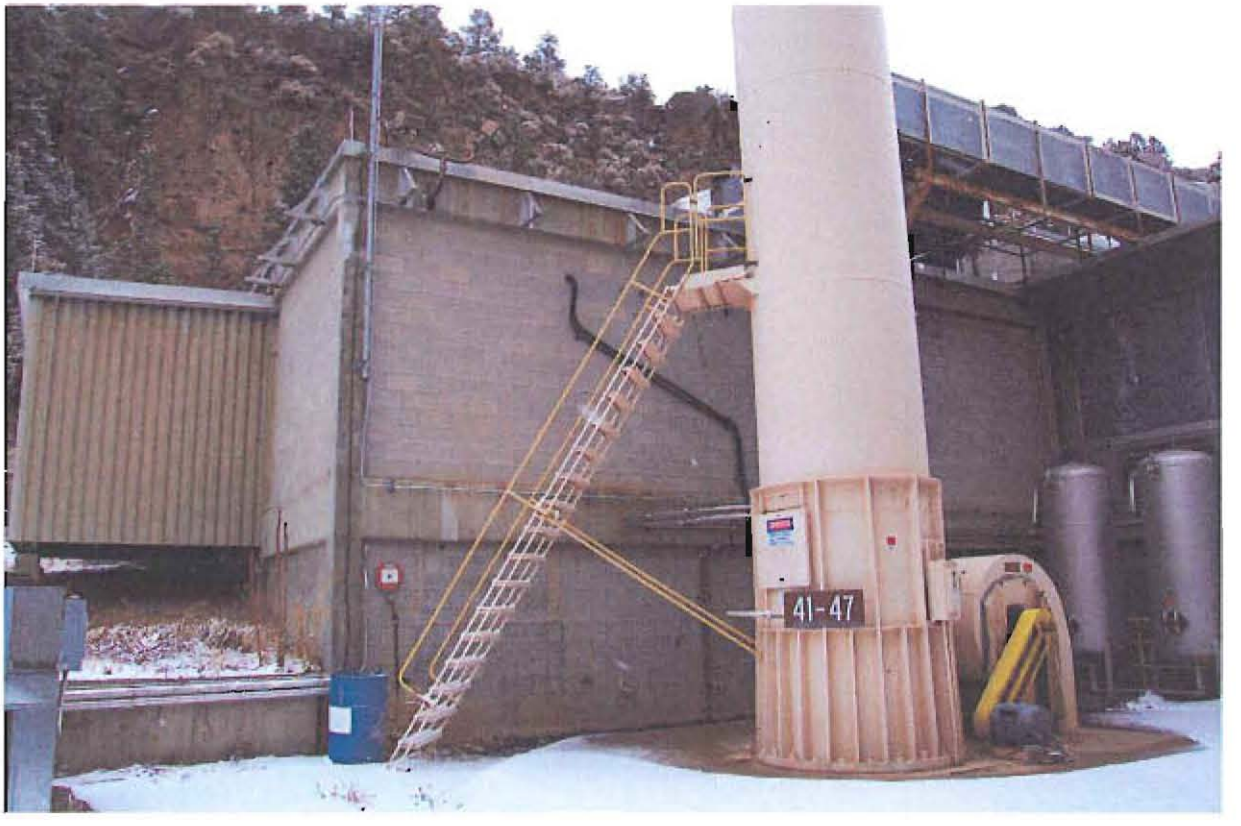
Alterations

List of Drawings (Cntrl + Enter for para break)

None.

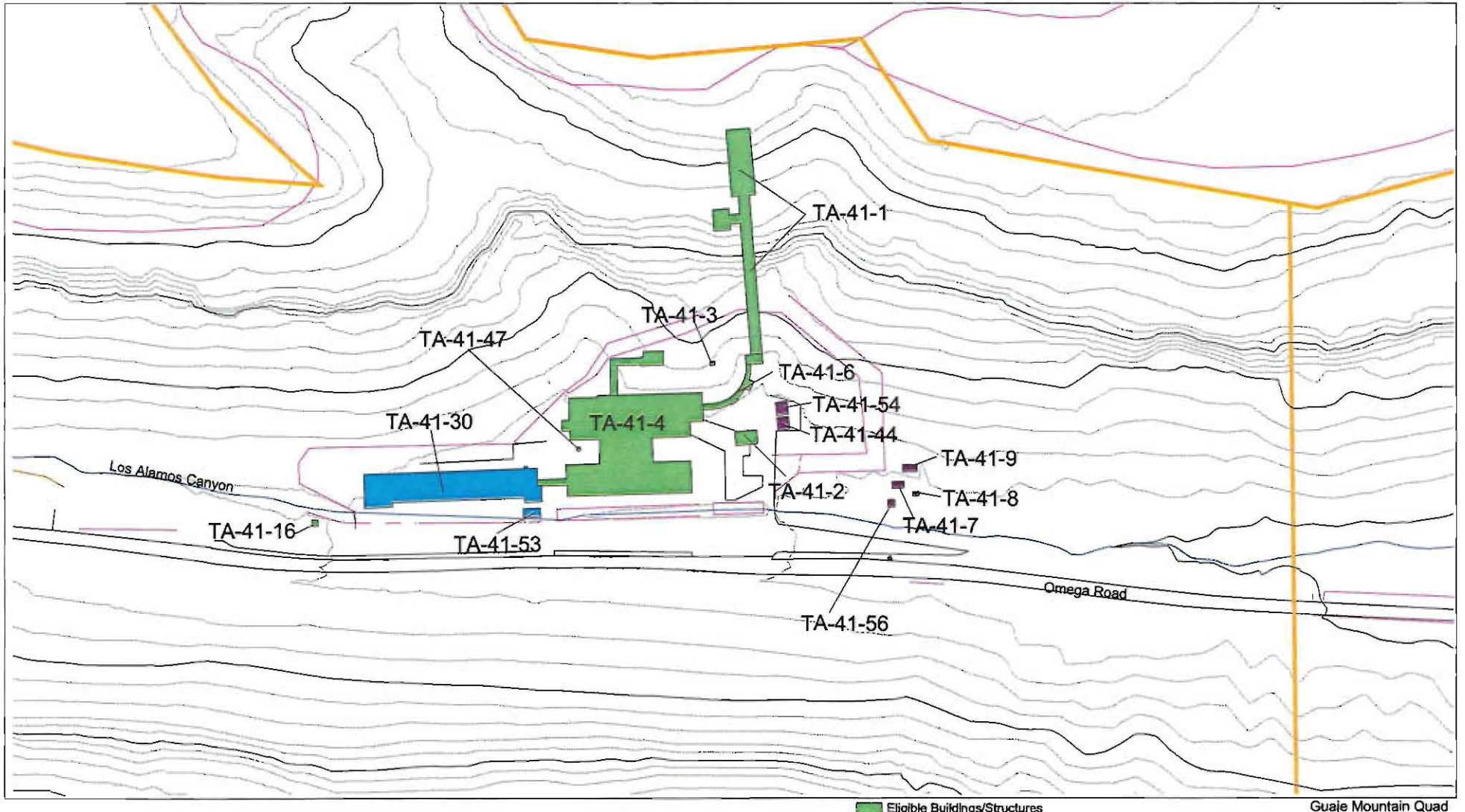


TA-41-47
Exhaust Stack



TA-41-47 Exhaust Stack and TA-41-4 South Elevation of North Wing

Appendix B: Maps Showing Location of Eligible and Non-Eligible Properties and TA-41 Construction History



Los Alamos
National Laboratory
Heritage Resources and
Environmental Policy Compliance Team
RRES-ECO (Ecology Group)

TA-41

Eligible and
Not Eligible Buildings
Shown prior to Demolition

B-1

N
W E
S

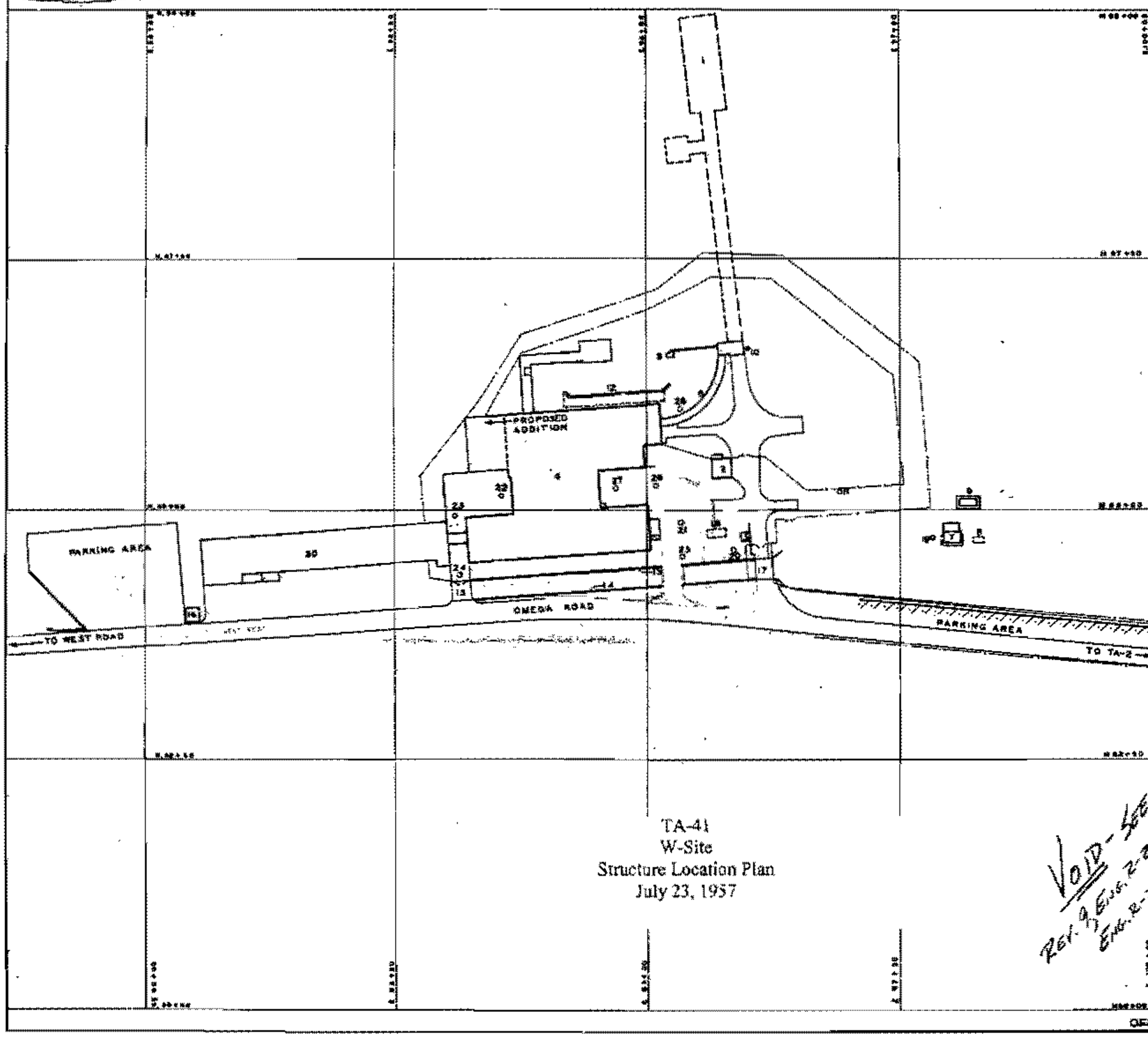
Eligible Buildings/Structures
Not Eligible Buildings/Structures
Exempt Buildings/Structures
20 Foot Contours
100 Foot Contours
Techarea
Drainage
Township, Section, Range
USGS 7.5 Minute Quad
Trails
Roads
Roaddirt
Parkpave
Parkdirt
Fences

1:2500

100 0 100 200 300 Feet

30 0 30 60 90 Meters

OFFICIAL USE ONLY



TA-41
W-Site
Structure Location Plan
July 23, 1957

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-41-1	W-1	UNDERGROUND VAULT
TA-41-2	W-2	GUARD HOUSE (STATION 312)
TA-41-3	W-3	BLOWER HOUSE
TA-41-4	W-4	LABORATORY
TA-41-5	W-5	GUARD HOUSE (STATION 311)
TA-41-6	W-6	COVERED PASSAGEWAY
TA-41-7	W-7	IMHOFF TANK & CHLORINE ROOM
TA-41-8	W-8	CONTACT TANK
TA-41-9	W-9	DRYING BED
TA-41-10	W-10	SUMP PIT
TA-41-11	W-11	SEPTIC TANK (SANITARY)
TA-41-12	W-12	RETAINING WALL
TA-41-13	W-13	RETAINING WALL
TA-41-14	W-14	RETAINING WALL
TA-41-15	W-15	BRIDGE
TA-41-16	W-16	GUARD HOUSE (STATION 310)
TA-41-17	W-17	BRIDGE
TA-41-18	W-18	MANHOLE (WATER PRV)
TA-41-19	W-19	MANHOLE (SANITARY SEWER)
TA-41-20	W-20	MANHOLE (SANITARY SEWER)
TA-41-21	W-21	MANHOLE (SANITARY SEWER)
TA-41-22	W-22	MANHOLE (STORM SEWER)
TA-41-23	W-23	MANHOLE (STORM SEWER)
TA-41-24	W-24	MANHOLE (STORM SEWER)
TA-41-25	W-25	MANHOLE (STORM SEWER)
TA-41-26	W-26	MANHOLE (STORM SEWER)
TA-41-27	W-27	MANHOLE (STORM SEWER)
TA-41-28	W-28	MANHOLE (STORM SEWER)
TA-41-29	W-29	RESERVE
TA-41-30	W-30	ENGINEERING & LAB. BLDG. (PROPOSED)

DOES NOT CONTAIN OFFICIAL USE ONLY INFORMATION
Name/Org: Jill Hefele/S-7 Date: 8/30/04

OBSOLETE DEAD STORAGE

VOID - SEE REV. 9, ENG.R-2474E, ENG.R-2475

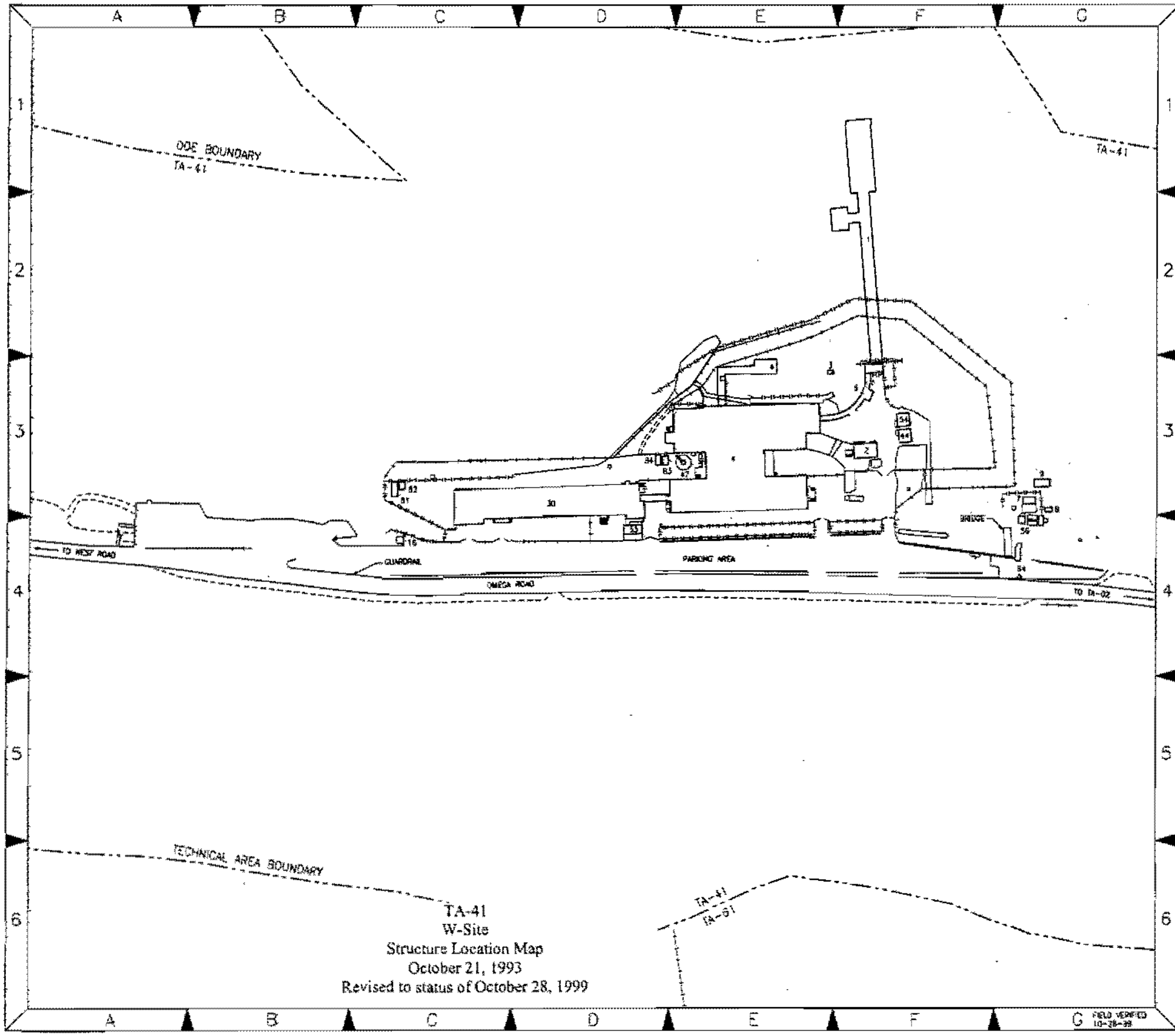
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

STRUCTURE LOCATION PLAN
TA-41 W-SITE

AUTHORIZED FOR

DATE 7-23-57
ENG-R 164

OFFICIAL USE ONLY



TA-41
W-Site
Structure Location Map
October 21, 1993
Revised to status of October 28, 1999

KEY MAP

SHEET 2

STRUCTURE LOCATION INDEX

STRUCTURE TA-#	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	STRUCTURE LOCATOR SHEET NO.	STRUCTURE LOCATOR MAP KEY
41-1	W-1	UNDERGROUND VAULT	2	F-2
41-2	W-2	GUARD STATION #318	2	F-3
41-3	W-3	BLOWER HOUSE	2	E-3
41-4	W-4	LABORATORY BUILDING	2	E-3
41-6	W-6	COVERED PASSAGEWAY	2	F-3
41-7	41-7	IMHOFF TANK & CHLORINE ROOM	2	G-3
41-8	41-8	CONTACT TANK	2	G-3
41-9	41-9	DRYING BED	2	G-3
41-15	41-15	GUARD STATION #207	2	C-4
41-30	W-30	OFFICE BUILDING	2	D-3
41-44	W-44	STORAGE BUILDING	2	F-3
41-47	41-47	EXHAUST STACK	2	E-3
41-53	W-53	GUARD STATION #311	2	D-4
41-54	W-54	STORAGE BUILDING	2	F-3
41-56	41-56	LIFT STATION	2	G-4
41-64	41-64	METEOROLOGICAL TOWER	2	G-4
41-91	41-91	TRANSPORTAINER	2	C-3
41-92	41-92	TRANSPORTAINER	2	C-3
41-93	41-93	COOLER	2	D-3
41-94	41-94	LIQUID NITROGEN TANK	2	D-3

SCALE: 1:720 IN
60 0 60 120
FEET

N

NO	DATE	DESCRIPTION
3	10-28-99	REVISED TO STATUS OF 10-28-99

Johnson Controls
Northern New Mexico

AS-BUILT STRUCTURE LOCATION MAPS

TA-41

W-SITE

DRAWN: J. HORK
VERIFIED: J. HORK
CHECKED: A. SALAZAR
DATE: 10-21-93

SUBMITTED: HAROLD SALAZAR

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

SHEET 2 of 2

CLASSIFICATION: U — REVIEWER: HAROLD SALAZAR

PROJECT #: 11952
DRAWING NO: AB32
REV: 3

Appendix C: Interview Information

Oral Histories

Larson, R.

2003 Interview with John Ronquillo and Ellen McGehee. Recording of August 8, 2003 interview with Richard Larson on file at RRES-ECO, Los Alamos National Laboratory, Los Alamos, New Mexico.

Plassmann, E.

2003 Interview with John Ronquillo and Ellen McGehee. Recording of August 11, 2003 interview with Elizabeth "Beth" Plassmann on file at RRES-ECO, Los Alamos National Laboratory, Los Alamos, New Mexico.

Appendix D: Listing of Drawings on File at LANL for TA-41

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
41	1	AB	111	1	0		16-JUN-93	31-MAR-93	7556	A	AS-BUILT RECORD FLOOR PLAN + UNDERGROUND VAULT, FIRST FLOOR PLAN
41	1	C	249	1	3		20-DEC-48	20-DEC-48	0	A	STEEL SHELVING UNIT, BLDG. W-1
41	1	C	735	1	1		23-APR-50	23-APR-50	496	M	REPAIRS TO INNER VAULT DOOR HINGES W-SITE
41	1	C	1577	3	1		12-MAY-53	04-DEC-50	145	S	L A PROJECT EXPLOSIVE STORAGE, W-SITE. PLANS & REINFORCING, PORTAL, BLDG W-1
41	1	C	1578	4	1		12-MAY-53	01-FEB-51	145	S	L A PROJECT EXPLOSIVE STORAGE, W-SITE. PLANS & REINFORCINS, PORTAL & AIR INTAKE
41	1	C	1579	5	1		12-MAY-53	04-DEC-50	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. DETAILS, PORTAL ENTRANCE DOOR, BLDG. W-1
41	1	C	1580	6	1		12-MAY-53	04-DEC-50	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. DETAILS, ENTRANCE DOOR, UNIT "A", BLDG.
41	1	C	1581	7	1		12-MAY-53	04-DEC-50	145	A	L A PROJECT EXPLOSIVE STORAGE, S-SITE. PLANS & SECTIONS, UNIT "A", BLDG. W-1
41	1	C	1582	8	2		12-MAY-53	04-DEC-50	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. ELEVATIONS & SECTIONS, UNIT "A", BLDG. W
41	1	C	1583	9	1		12-MAY-53	04-DEC-50	145	S	L A PROJECT EXPLOSIVE STORAGE, W-SITE. REINFORCING DETS., MAIN CHAMBER, UNIT "A
41	1	C	1584	10	1		12-MAY-53	06-DEC-50	145	S	L A PROJECT EXPLOSIVE STORAGE, W-SITE. REINFORCING DETS., VAULTS, UNIT "A", BLD
41	1	C	1585	11	1		12-MAY-53	04-DEC-50	145	S	L A PROJECT EXPLOSIVE STORAGE, W-SITE. REINFORCING DETAILS. FL00R PLANS & PARTITION WALL,UNIT A
41	1	C	1586	12	3		12-MAY-53	17-FEB-51	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. PLANS & SECTION, UNIT "B", BLDG. W-1
41	1	C	1587	13	2		12-MAY-53	04-DEC-50	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. ELEVATIONS & SECTIONS, UNIT "B", BLDG. W
41	1	C	1588	14	2		12-MAY-53	04-DEC-50	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. PLANS & SECT., UNIT "C", BLDG. W-1
41	1	C	1589	14	1		12-MAY-53	04-DEC-51	145	A	L A PROJECT EXPLOSIVE STORAGE, W-SITE. SUPPORTED TUNNEL DETAILS, BLDG. W-1
											EXPLOSIVE STORAGE PROJECT, W-SITE. SUPPORTED TUNNEL

41	1	C	1590	14	1	12-MAY-53	04-DEC-50	145	A	DETS., W-1
41	1	C	1591	15	1	12-MAY-53	04-DEC-50	145	S	EXPLOSIVE STORAGE PROJECT, W-SITE. REINFORCING DETAILS., UNIT "C", W-1
41	1	C	1596	20	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. SITE PLAN, ELECT. WORK, W-1
41	1	C	1597	21	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. GROUNDING PLAN. W-1
41	1	C	1598	22	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. LIGHTING LAYOUT, UNIT "A", W-1
41	1	C	1599	23	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. LIGHTING SECTIONS, W-1
41	1	C	1600	24	2	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. LIGHTING & POWER LAYOUTS, UNITS "B" & "C", W
41	1	C	1601	25	2	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. LIGHTING & POWER LAYOUT, SENTRY HOUSE, W-1
41	1	C	1602	26	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. POWER SUPPLY AND FLOODLIGHTING INSTALLATION,
41	1	C	1603	27	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJECT, W-SITE. FLOODLIGHTING INSTALLATIONS, W-1, TRANSFORMER INSTALLATION, CONNECTION DIAGRAM
41	1	C	1604	28	2	12-MAY-53	06-DEC-50	145	AC	EXPLOSIVE STORAGE PROJECT, W-SITE. VENTILATING & AIR CONDITIONING, LAYOUT UNITS "A", "B", "C
41	1	C	1605	29	1	12-MAY-53	06-DEC-50	145	AC	EXPLOSIVE STORAGE PROJECT, W-SITE. VENTILATING & AIR CONDITIONING, LAYOUT UNITS "A", "B", "C
41	1	C	1606	30	2	12-MAY-53	06-DEC-50	145	AC	EXPLOSIVE STORAGE PROJECT, W-SITE. VENTILATING & AIR CONDITIONING DETAILS., W-1
41	1	C	1608	32	1	12-MAY-53	06-DEC-50	145	E	EXPLOSIVE STORAGE PROJ., W-SITE. SCHEMATIC DIAGRAM, POWER AND LIGHTING, BLDG. 1 AND 2
41	1	C	1609	33	1	12-MAY-53	06-DEC-50	145	G	EXPLOSIVE STORAGE PROJECT, W-SITE. REINFORCING BILL OF MATERIAL
41	1	C	1610	34	1	12-MAY-53	06-DEC-50	145	G	EXPLOSIVE STORAGE PROJECT, W-SITE. REINFORCING STEEL BILL OF MATERIAL
41	1	C	3112	2	0	30-OCT-53	30-OCT-53	1525	E	ELECTRICAL HOIST INSTALLATION, ELECTRICAL PLAN & DETAILS, AREA 3

41	1	C	12026	1	0	13-JAN-56	11-JAN-56	1750	M	VENTILATION SYSTEM, MOD., BLDG. W-1, VENTILATING PLAN
41	1	C	12027	2	0	13-JAN-56	11-JAN-56	1750	M	VENTILATING SYS. MODIFICATIONS, SECTIONS & DETAILS
41	1	C	12028	3	0	13-JAN-56	11-JAN-56	1750	E	VENTILATION SYS. MODIFICATIONS, PLAN & MATERIALS
41	1	C	12029	4	0	13-JAN-56	11-JAN-56	1750	E	VENT. SYS. MODIFICATIONS, WIRING DIA. & DETAILS
41	1	C	16980	1	0	21-MAY-56		0	UN	SCHEMATIC WIRING DIAGRAMS - BLDGS. W-1 & W-4, W-SITE
41	1	C	16984	5	0	21-MAY-56		0	UN	BLDGS. W-1, W-2, & W-4, W-SITE
41	1	C	23660	1	0	21-SEP-60		2467	E	W-SITE INSTALLATION - ELECTRICAL - PLANS, NOTES, MATERIAL & NOTES, BLDG. W-1,4,6
41	1	C	25842	1	0	30-SEP-60	29-SEP-60	2467	E	W-SITE ALARM INSTALL., BLDG. 1, ELECTRICAL - PLANS, NOTES & SCOPE
41	1	C	27378	1	0	10-NOV-64		2981	UN	STILL INSTALLATION, BLDG. W-1, AREA 4, PLANS & ELEVATIONS
41	1	C	27379	2	0	10-NOV-64		2981	UN	STILL INSTALLATION, BLDG. W-1, AREA 4, DETS., LIST OF EQUIP., DIAGRAM & NAMEPLAT
41	1	C	27847	1	0	05-NOV-64		3115	E	REDISTRIBUTION OF POWER, BLDGS. W-1, & W-2, ELEC.-BLDG. W-1 LYOT, BILL OF MATL,
41	1	C	27848	2	0	05-NOV-64		3115	E	REDISTRIBUTION OF POWER, BLDGS. W-1 & W-2, ELECT.-SINGLE LINE & BLDG. W-4 LAYOUT
41	1	C	27849	3	0	05-NOV-64		3115	E	REDISTRIBUTION OF POWER, BLDGS. W-1 & W-2, ELECTRICAL - BLDG. W-2
41	1	C	31741	1	0	05-APR-65		3116	G	LABORATORY INSTALLATION, BLDG. W-1 - PLANS & GENERAL NOTES
41	1	C	31742	2	0	05-APR-65		3116	UN	PLANS - ELEVATIONS - DETAILS
41	1	C	31743	3	0	05-APR-65		3116	UN	PLANS, ELEVATIONS - DETAILS
41	1	C	31744	4	0	05-APR-65		3116	UN	LIST OF EQUIPMENT & SCHEDULES
41	1	C	31745	5	0	05-APR-65		3116	F	ELECTRICAL - LIGHTING & FIRE PROTECTION PLANS & DIAGRAMS
41	1	C	31746	6	0	05-APR-65		3116	G	ELECTRICAL - GENERAL NOTES, CONDUIT PLAN & WIRING DIAGRAMS
41	1	C	36183	1	0	21-JAN-71		4561	E	HEAT DETECTOR INSTALLATION ELECTRICAL, BLDG. W-1
41	1	C	43554	8	0	26-SEP-78	12-NOV-79	5940	E	UPGRADE VENTILATION SYS. MAIN VAULT AREA 5 ELEC; PARTIAL PLAN
										UPGRADE VENTILATION SYS. MAIN VAULT AREA 5 MECH;

41	1	C	43554	6	0	26-SEP-78	11-DEC-79	5940	M	EQUIPMENT LIST
41	1	C	43554	1	0	26-SEP-78	11-DEC-79	5940	M	UPGRADE VENTILATION SYSTEM MAIN VAULT AREA 5 MECH; LOCATION AND PARTIAL PLANS
41	1	C	43554	2	0	26-SEP-78	11-DEC-79	5940	M	UPGRADE VENTILATION SYS., MAIN VAULT AREA 5 MECH; SECTIONS AND DETAIL
41	1	C	43554	5	0	26-SEP-78	11-DEC-79	5940	M	UPGRADE VENTILATION SYS. MAIN VAULT AREA 5 MECH; NOTES
41	1	C	43554	4	0	26-SEP-78	12-NOV-79	5940	M	UPGRADE VENTILATION SYS. MAIN VAULT AREA 5 MECH; DETAILS
41	1	C	43554	7	0	26-SEP-78	11-DEC-79	5940	E	UPGRADE VENTILATION SYS. ELEC; BILL OF MATERIAL, NOTES NAMEPLATE SCHEDULE AND
41	1	C	43554	3	0	26-SEP-78	11-DEC-79	5940	M	UPGRADE VENTILATION SYS. MAIN VAULT AREA 5 MECH; SECTIONS
41	1	C	43698	6	1	17-JUL-79		6334	E	ELEC; UNDERGROUND VAULT AND TUNNEL
41	1	C	43698	58	0	04-MAR-98	03-SEP-79	6334	C	FIRE PROTECTION IMPROVEMENTS, PLOT PLAN
41	1	C	43698	59	0	04-MAR-98	03-SEP-79	6334	A	FIRE PROTECTION IMPROVEMENTS, FLOOR PLAN
41	1	C	43698	1	1	17-JUL-79		6334	T	FIRE PROTECTION IMPROVEMENTS TITLE SHEET AND LOCATION PLAN BLDG. WA-1 TA-41
41	1	C	43698	3	1	17-JUL-79		6334	M	MECH; SECTION
41	1	C	43698	4	1	17-JUL-79		6334	E	ELEC; BLOCK DIAGRAM, NOTES AND NAMEPLATE
41	1	C	43698	5	1	17-JUL-79		6334	E	ELEC; W-4 SECOND FLOOR PLAN
41	1	C	43698	2	1	17-JUL-79		6334	M	MECH; FLOOR PLAN
41	1	C	45394	9	0	01-APR-88	04-FEB-88	8739	G	REPLACE VENTILATION SYSTEM, GEN; SUBMITTAL SHEET
41	1	C	45394	5	0	01-APR-88	04-FEB-88	8739	M	REPLACE VENTILATION SYSTEM, MECH; EQUIPMENT LIST, NOTES AND CLASS "A" EQUIPMENT CODE ASSIGNMENTS
41	1	C	45394	1	0	01-APR-88	02-APR-88	8739	S	REPLACE VENTILATION SYSTEM, STRUCT; FOUNDATION & SUPPORT PLANS & DETAILS
41	1	C	45394	3	0	01-APR-88	04-FEB-88	8739	M	REPLACE VENTILATION SYSTEM, MECH., & ELEC., DEMOLITION PLAN, ELEVATION
41	1	C	45394	3	0	01-APR-88	04-FEB-88	8739	E	REPLACE VENTILATION SYSTEM, MECH., & ELEC., DEMOLITION PLAN, ELEVATION
41	1	C	45394	4	0	01-APR-88	04-FEB-88	8739	M	REPLACE VENTILATION SYSTEM, MECH; FLOOR PLAN & SECURITY BAR DETAILS, HEPA FILTER PLENUM ELEVATIONS,

										LEGEND
41	1	C	45394	6	0	01-APR-88	05-FEB-88	8739	M	REPLACE VENTILATION SYSTEM, MECH; CONTROL SCHEMATIC, FAN, HEATING COIL,INLET VAN CONTROL WIRING DIAGRAM,
41	1	C	45394	8	0	01-APR-88	04-FEB-88	8739	E	REPLACE VENTILATION SYSTEM, ELEC; LIGHTNING PROTECTION, BILL OF MATERIAL & NAMEPLATE SCHEDULES
41	1	C	45394	6	0	01-APR-88	05-FEB-88	8739	E	REPLACE VENTILATION SYSTEM, MECH; CONTROL SCHEMATIC, FAN, HEATING COIL,INLET VAN CONTROL WIRING DIAGRAM,
41	1	C	45394	7	0	01-APR-88	04-FEB-88	8739	E	REPLACE VENTILATION SYSTEM, ELEC; PLAN, NOTES & ONE LINE DIAGRAMS
41	1	C	45394	2	0	01-APR-88	04-FEB-88	8739	S	REPLACE VENTILATION SYSTEM, STRUCT; EXHAUST STACK DETAILS, STACK & FAN CURB DETAILS & NOTES
41	1	C	45394	7	1	30-APR-03	04-FEB-88	8739	E	REPLACE VENTILATION SYSTEM, ELEC; PLAN, NOTES & ONE LINE DIAGRAMS
41	1	C	52050	4	0	24-JUN-99	17-AUG-98	18393	E	ELECTRICAL UPGRADES, ELEC., ONE-LINE DIAGRAM, BILL OF MATERIAL, GROUNDING LAYOUT & NAMEPLATE SCHEDULE
41	1	C	52050	2	0	24-JUN-99	17-AUG-98	18393	E	ELECTRICAL UPGRADES, ELEC., DEMOLITION FLOOR PLAN
41	1	C	52050	5	0	04-MAR-04	17-AUG-98	18393	E	ELECTRICAL UPGRADES, ELEC., PANELBOARD SCHEDULES
41	1	C	52050	3	0	24-JUN-99	17-AUG-98	18393	E	ELECTRICAL UPGRADES, ELEC., POWER FLOOR PLAN
41	1	C	52050	1	0	24-JUN-99	17-AUG-98	18393	E	ELECTRICAL UPGRADES, ELEC., SYMBOL, LEGEND & GENERAL NOTES
41	1	R	2313	1	0	05-APR-62	22-DEC-61	0	A	FALLOUT SHELTER SURVEY, W-SITE, FLOOR PLAN
41	1	R	2314	1	0	05-APR-62	18-DEC-61	0	A	FALLOUT SHELTER SURVEY, W-SITE, BASEMENT & FIRST FLOOR PLAN
41	1	R	2315	2	0	05-APR-62	19-DEC-61	0	A	FALLOUT SHELTER SURVEY, W-SITE, SECOND FLOOR PLAN
41	1	R	3137	1	3	20-DEC-63	06-MAR-84	0	A	FLOOR PLAN, UNDERGROUND VAULT
41	1	SK	7686	1	0	06-JUL-89		8739	C	REPA FILTER RELOCATION, BLDG. W-1, CIVIL/STRUCTURAL PLAN
41	1	SK	7686	2	0	06-JUL-89		8739	C	CIVIL/STRUCTURAL PLAN
41	1	SK	7686	3	0	06-JUL-89		8739	S	STRUCTURAL DETAILS
41	1	SK	7686	4	0	06-JUL-89		8739	UN	DEMOLITION PLAN
41	1	SK	7686	5	0	06-JUL-89		8739	UN	DEMOLITION PLAN

41	1	SK	7686	6	0	06-JUL-89	8739	M	MECHANICAL PLAN
41	1	SK	7686	7	0	06-JUL-89	8739	M	MECHANICAL PLAN
41	1	SK	7686	8	0	06-JUL-89	8739	F	FIRE PROTECTION PLAN
41	1	SK	7686	9	0	06-JUL-89	8739	M	MECHANICAL DETAILS
41	1	SK	7686	10	0	06-JUL-89	8739	UN	DETAILS

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
41	2	C	928	1	1		20-MAR-51	25-JUN-53	385	E	MOD. STANDBY ELECTRICAL POWER PLANT. PLOT PLAN, WIRING DIAGRAM & NOTES
41	2	C	929	2	1		20-MAR-51	25-JUN-53	385	E	MOD. STANDBY ELECTRICAL POWER PLANT SINGLE LINE DIA. & DETAILS
41	2	C	930	1	0		24-JUL-50	24-JUL-50	385	E	MOD. STANDBY ELECTRIC POWER PLANT. WIRING DIAGRAMS & CONTROL PANEL LAYOUT
41	2	C	931	2	0		24-JUL-50	24-JUL-50	385	E	MOD. STANDBY ELECTRICAL POWER PLANT. POWER PANEL ALTERATIONS & NOTES
41	2	C	959	1	2		19-AUG-50	19-AUG-50	632	C	TEMPORARY SITE ALTERATIONS, W-SITE. PLOT PLAN & DETS.
41	2	C	1592	16	1		12-MAY-53	06-DEC-50	145	A	EXPLOSIVE STORAGE PROJECT, W-SITE. ARCH. PLANS & SECTIONS. SENTRY HOUSE, W-2
41	2	C	1593	17	1		12-MAY-53	06-DEC-50	145	A	EXPLOSIVE STORAGE PROJECT, W-SITE. ARCH. ELEV. & DETAILS, SENTRY HOUSE, W-1
41	2	C	1594	18	1		12-MAY-53	06-DEC-50	145	S	EXPLOSIVE STORAGE PROJECT, W-SITE. STRUCT. DETAILS, SENTRY HOUSE, W-2
41	2	C	1595	19	1		12-MAY-53	06-DEC-50	145	S	EXPLOSIVE STORAGE PROJECT, W-SITE. STRUCT. DETAILS, SENTRY HOUSE, W-1
41	2	C	1607	31	2		12-MAY-53	06-DEC-50	145	A	EXPLOSIVE STORAGE PROJECT, W-SITE. UTILITY ROOM LAYOUT, SENTRY HOUSE, W-2
41	2	C	10888	1	0		27-JUN-56		0	E	WASTE TREATMENT PLANT, REVISION
41	2	C	16983	4	0		21-MAY-56		0	UN	BLDGS. W-2 & W-4, W-SITE
41	2	C	43712	1	0		03-OCT-79		5788	C	WEAPONS SAFEGUARDS CIVIL; GURAD STATION SPECIFICATIONS, LEGEND BLDG. W-2 TA-41
41	2	C	43712	5	0		03-OCT-79		5788	E	ELEC; GUARD STATION SCOPE OF WORK, NOTES, NAMEPLATE SCHEDULE AND LEGEND
41	2	C	43712	2	0		03-OCT-79		5788	C	CIVIL GUARD STATION FLOOR PLAN ELEVATIONS, SECTIONS, DOOR AND FINISH SCHEDULES
41	2	C	43712	4	0		03-OCT-79		5788	M	MECH; GUARD STATION MECH. EQUIP. LIST AND NOTES
41	2	C	43712	3	0		03-OCT-79		5788	M	MECH; GUARD STATION PLANS, PIPING ISOMETRICS, AND SECTIONS

41	2	C	43712	9	0	03-OCT-79		5788	E	ELEC; GUARD STATION DETAIL AND ELEVATION
41	2	C	43712	7	0	03-OCT-79		5788	E	ELEC; GUARD STATION ELECTRICAL SYSTEMS LAYOUTS
41	2	C	43712	8	0	03-OCT-79		5788	E	ELEC; GUARD STATION PANEL SCHEDULE "LP-1" AND WIRING DIAGRAM
41	2	C	43712	6	0	03-OCT-79		5788	E	ELEC; GUARD STATION BILL OF MATERIAL
41	2	C	43713	6	0	03-OCT-79		5788	E	ELEC; BILL OF MATERIALS, SCOPE, NOTES, NAMEPLATE SCHEDULE AND LEGEND
41	2	C	43713	8	0	03-OCT-79		5788	E	ELEC; GUARD STATION ELECTRICAL SYSTEMS LAYOUTS AND SECTIONS
41	2	C	43713	9	0	03-OCT-79		5788	E	ELEC; DETAILS AND SECTIONS
41	2	C	43713	7	0	03-OCT-79		5788	E	ELEC; POWER PLOT PLAN AND WIRING DIAGRAM
41	2	C	43713	3	0	03-OCT-79		5788	C	CIVIL; FLOOR PLAN, SECTION AND REMOVAL ELEVATION
41	2	C	43713	5	0	03-OCT-79		5788	M	MECH; MECHANICAL NOTES AND ISOMETRICS
41	2	C	43713	2	0	03-OCT-79		5788	C	CIVIL; PLOT PLAN AND TRENCHING DETAIL
41	2	C	43713	4	0	03-OCT-79		5788	C	CIVIL; FENCING DETAILS
41	2	C	43713	1	0	03-OCT-79		5788	G	WEAPONS SAFEGUARDS CIVIL; GENERAL NOTES AND LEGEND BLDG. W-2 TA-41
41	2	C	44520	26	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., PANEL "LP-2" AND "LP-3" SCHEDULE
41	2	C	44520	27	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., PANEL "PP-B" AND "LP-A" SCHEDULE
41	2	C	44520	30	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., BILL OF MATERIAL
41	2	C	44520	11	0	20-MAY-85	20-MAY-85	8065	M	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, MECH., FLOOR PLAN, LEGEND AND SECTIONS
41	2	C	44520	10	0	20-MAY-85	20-MAY-85	8065	A	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ARCH., FINISH & DOOR SCHEDULES SECTIONS & ELEVATIONS
41	2	C	44520	9	0	20-MAY-85	20-MAY-85	8065	A	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ARCH., ELEVATIONS
41	2	C	44520	28	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., CABLE & CONDUIT SCHEDULE NO. 101 THRU 150
41	2	C	44520	12	0	20-MAY-85	20-MAY-85	8065	M	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, MECH., PIPING SCHEMATIC & DETAIL, DIESEL FUEL TANK

41	2	C	44520	31	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., BILL OF MATERIAL
41	2	C	44520	29	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., BILL OF MATERIAL
41	2	C	44520	25	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., PANEL "PP-A" AND "PP-E" SCHEDULE
41	2	C	44520	19	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., GROUNDING LAYOUT & LIGHTNING PROTECTION LAYOUT
41	2	C	44520	15	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., ONE LINE DIAGRAM
41	2	C	44520	7	0	20-MAY-85	20-MAY-85	8065	A	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ARCH., NOTES
41	2	C	44520	2	0	20-MAY-85	20-MAY-85	8065	G	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, GEN., SUBMITTALS
41	2	C	44520	8	0	20-MAY-85	20-MAY-85	8065	A	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ARCH., FLOOR PLAN, SECTIONS DETAILS
41	2	C	44520	4	0	20-MAY-85	20-MAY-85	8065	S	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, STRUCT., FOUNDATION PLAN, SECTIONS & STRUCT., NOTES
41	2	C	44520	24	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., AREA LIGHTING WIRING DIAGRAMS & ENCLOSURE & PANEL LAYOUT
41	2	C	44520	18	0	20-MAY-85	20-MAY-85	8065	F	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., LIGHTING & FIRE DETECTION SYSTEM LAYOUT
41	2	C	44520	18	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., LIGHTING & FIRE DETECTION SYSTEM LAYOUT
41	2	C	44520	13	0	20-MAY-85	20-MAY-85	8065	M	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, MECH., GENERAL PROVISIONS AND EQUIPMENT LIST
41	2	C	44520	6	0	20-MAY-85	20-MAY-85	8065	S	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, STRUCT., ROOF FRAMING PLAN, SECTIONS, DETAILS & NOTES
41	2	C	44520	5	0	20-MAY-85	20-MAY-85	8065	S	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, STRUCT., FOUNDATION PLAN BLDG, SECTIONS & ELEVATIONS
41	2	C	44520	1	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, TITLE SHEET, LOCATION PLAN & INDEX OF DRAWINGS
										SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING,

41	2	C	44520	23	0	20-MAY-85	20-MAY-85	8065	E	ELEC., MISCELLANEOUS WIRING DIAGRAMS
41	2	C	44520	22	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., ELEVATIONS & DETAILS, TRANSFORMER SUPPORT
41	2	C	44520	21	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., EXTERIOR LIGHTING LAYOUTS
41	2	C	44520	17	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., POWER LAYOUT
41	2	C	44520	16	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., POWER PLOT PLAN
41	2	C	44520	16	0	20-MAY-85	20-MAY-85	8065	C	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., POWER PLOT PLAN
41	2	C	44520	14	0	20-MAY-85	20-MAY-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., NAMEPLATE SCHEDULE, NOTES AND SCOPE OF WORK
41	2	C	46213	1	0	31-MAR-92	11-MAR-92	12400	T	INSTALL UNDERGROUND STORAGE TANK, TITLE SHEET AND INDEX TO DRAWINGS
41	2	C	46213	2	0	31-MAR-92	11-MAR-92	12400	C	INSTALL UNDERGROUND STORAGE TANK, CIVIL, LOCATION PLANS
41	2	C	46213	3	0	31-MAR-92	11-MAR-92	12400	G	INSTALL UNDERGROUND STORAGE TANK, GEN., SUBMITTALS, INSPECTION PLAN & TEST PLAN SCHECULES
41	2	C	46213	5	0	31-MAR-92	11-MAR-92	12400	C	INSTALL UNDERGROUND STORAGE TANK, CIVIL, SITE PLAN AND CONCRETE VAULT DETAILS, SCHEMATIC
41	2	C	46213	8	0	31-MAR-92	11-MAR-92	12400	C	INSTALL UNDERGROUND STORAGE TANK, CIVIL, DETAILS AND SECTIONS
41	2	C	49398	1	1	18-NOV-93		14613	E	UPS UPGADE, ELEC; NOTES, NAMEPLATE SHCEDULE, B.O.M. AND SCOPE OF WORK, BLDG. W-2
41	2	C	49398	3	0	18-NOV-93		14613	E	ELEC; DEMOLITION PLAN, ELEVATION AND KEYED NOTES
41	2	C	49398	5	0	17-NOV-93		14613	E	ELEC; POWER PLAN, SECTIONS AND KEYED NOTES
41	2	R	1958	1	0	11-JAN-63		0	F	FIRE ALARM EQUIPMENT, BLDG. W-2, FIRST & SECOND FLOOR PLANS
41	2	R	3138	1	2	17-JUL-64	06-FEB-84	0	A	FIRST & SECOND FLOOR PLAN, GUARD HOUSE

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
41	3	R	3377	1	3		31-JAN-63	06-MAR-84	0	A	FLOOR PLAN, BOILER HOUSE

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
41	4	AB	120	1	0		06-Jun-94	15-May-94	7556	A	AS-BUILT REOCRD FLOOR PLAN LABORATORY BUILDING, BASEMENT FLOOR PLAN
41	4	AB	120	2	0		06-Jun-94	13-May-94	7556	A	AS-BUILT RECORD FLOOR PLAN LABORATORY BUILDING, FIRST FLOOR PLAN
41	4	AB	120	3	0		06-Jun-94	15-May-94	7556	A	AS-BUILT RECORD FLOOR PLAN LABORATORY BUILDING, SECOND FLOOR PLAN
41	4	C	1043	1	1		30-Apr-65	30-Apr-65	3232	M	MASS SPECTROMETER INSTALLATION, MECHANICAL
41	4	C	1044	2	1		30-Apr-65	30-Apr-65	3232	E	MASS SPECTROMETER INSTALLATION, ROOM 125, BLDG. W-4. ELECTRICAL
41	4	C	1761	1	1		08-Jul-52	11-Jul-53	1250	M	DRY BOX INSTALLATION, ELECT, MECH., PLAN SECTIONS AND DETAILS, RM. 125,
41	4	C	2058	1	1		20-Dec-52	05-Dec-52	1340	S	DEHUMIDIFICATION, RM. 236A, BLDG. 4. STRUCTURAL PLANS & DETAILS
41	4	C	2059	2	1		20-Dec-52	05-Dec-52	1340	S	DEHUMIDIFICATION, RM. 236A, BLDG. 4. STRUCTURAL PLANS & DETAILS. SHEET METAL
41	4	C	2060	3	1		20-Dec-52	04-Dec-52	1340	S	DEHUMIDIFICATION, RM. 236A, BLDG. 4. SECOND FLOOR STRENGTHENING. STRUCTURAL
41	4	C	2061	4	1		20-Dec-52	05-Dec-52	1340	M	DEHUMIDIFICATION, RM. 236A, BLDG. 4. MECH. PLAN & SECTION
41	4	C	2062	5	1		20-Dec-52	05-Dec-52	1340	M	DEHUMIDIFICATION, RM. 236A, BLDG. 4. MECH. UTILITY TUNNEL & FIRST FLOOR PLAN
41	4	C	2063	6	1		20-Dec-52	05-Dec-52	1340	M	DEHUMIDIFICATION, RM. 236A, BLDG. 4. MECH. SECTIONS & DETAILS
41	4	C	2064	7	1		20-Dec-52	05-Dec-52	1340	M	DEHUMIDIFICATION, RM. 236A, BLDG. 4. MECH. SECTION & DETAILS
41	4	C	2065	8	2		20-Dec-52	05-Dec-52	1340	E	DEHUMIDIFICATION, RM. 236A, BLDG. 4. ELECT. PLANS & NOTES, UTILITY TUNNEL & SEC
41	4	C	2066	9	2		20-Dec-52	05-Dec-52	1340	E	DEHUMIDIFICATION, RM. 236A, BLDG. 4. ELECT. WIRING DIA. & MATERIALS
41	4	C	2067	10	1		20-Dec-52	05-Dec-52	1340	E	DEHUMIDIFICATION, RM 236A, BLDG. 4. ELECTRICAL DETAILS
41	4	C	2561	1	1		29-Jan-52	29-Dec-51	1068	M	TEMPERATURE CONTROL FOR RMS. 236 & 237, BLDG. #4
41	4	C	2562	2	1		29-Jan-52	29-Dec-51	1068	A	TEMPERATURE CONTROL FOR RMS. 236 & 237, BLDG. #4 PARTITION DETAILS
41	4	C	2576	1	1		10-Feb-52	10-Jan-52	1075	A	INSTALLATION LAB. BENCH, SINK AND STAND, RM. 219, BLDG. R-4
41	4	C	2578	1	0		12-Feb-52	12-Jan-52	1076	A	LADDER & PLATFORM, BLDG. W-4
41	4	C	2690	1	1		05-Jun-52	05-May-52	1164	M	MODIFY AIR CONDITIONING SYSTEM (EXCLUSION AREA) BLDG. W-4, MECH.
41	4	C	2691	2	1		05-Jun-52	05-May-52	1164	A	MODIFY AIR CONDITIONING SYSTEM (EXCLUSION AREA) BLDG. W-4, ARCH.
41	4	C	2698	1	1		29-May-52	29-Apr-52	1163	AC	AIR CONDITIONING OF ROOM 115, BLDG. W-4
41	4	C	2761	1	0		09-Jul-52	09-Jun-52	442	E	MODIFICATIONS OF G.E. MODEL 6RB 82Y2 BATTERY CHARGER, BLDG. W-4
41	4	C	2762	2	0		09-Jul-52	09-Jun-52	442	E	OUTLINE OF CONTROL PANEL SHOWING TAP & RANGE SWITCH POSITION, BLDG. W-4
41	4	C	2770	1	1		10-Jul-52	10-Jun-52	1197	E	BATTERY CHARGER ALTERATIONS, ROOM 127-D; BLDG. W-4 ELECT. PLAN
41	4	C	2771	2	1		10-Jul-52	10-Jun-52	1197	E	BATTERY CHARGER ALTERATIONS, ROOM 127-D, WIRING DIAGRAM
41	4	C	2772	3	1		10-Jul-52	10-Jun-52	1197	E	BATTERY CHARGER ALT., MOCK WIRING DETAILS & BATTERY CHARGER WIRING DIA.
41	4	C	2855	1	1		06-Nov-52	06-Oct-52	1322	A	MONORAIL INSTALL, RM. 240, BLDG. W-4 PLAN & DETAILS
41	4	C	10848	1	0		16-Nov-54	10-Nov-54	1661	M	HEATING & VENT. SYS. DESIGN MOD., FIRST AND SECOND FLOOR
41	4	C	10849	2	1		21-Jan-92	10-Nov-54	1661	M	HEATING & VENT. SYSTEM DESIGN MOD., FAN RM, UTILITY RM. & TUNN
41	4	C	10850	3	0		16-Nov-54	10-Nov-54	1661	M	HEATING & VENTILATING SYS., CONTROL DIAGRAMS & EQUIPMENT SCHEDULE
41	4	C	10910	1	0		05-Apr-55	29-Mar-55	1677	M	MOD. CHEMICAL FUME HOODS, BLDG. W-4, ELECT. PLAN & DETAILS
41	4	C	15124	13	1		08-Jun-53		442	UN	UTILITY TUNNEL PLAN (NO. 4) W-4
41	4	C	15125	14	2		08-Jun-53		442	A	FIRST FLOOR PLAN, BLDG. W-4
41	4	C	15126	15	1		08-Jun-53		442	A	SECOND FLOOR PLAN, BLDG. W-4

41	4	C	15127	16	1		21-Jan-92		442	UN	ELEVATIONS BUILDING W-4 PROJECT TA-41 (AS-BUILTS)
41	4	C	15128	17	1		21-Jan-92		442	UN	ELEVATIONS & SECTIONS BUILDING W-4 PROJECT TA-41 (AS-BUILTS)
41	4	C	15129	18	0		08-Jun-53		442	UN	ROOF PLAN, SECTIONS & MISC. EXTERIOR DETAILS, BLDG. W-4
41	4	C	15130	19	0		08-Jun-53		442	UN	WALL SECTIONS, BLDG. W-4
41	4	C	15131	20	0		08-Jun-53		442	UN	WINDOW & DOOR DETAILS, BLDG. W-4
41	4	C	15132	21	0		08-Jun-53		442	UN	STAIR & ELEVATOR DETAILS BLDG. W-4
41	4	C	15133	22	1		08-Jun-53		442	UN	1/4 SCALE TOILET ROOM PLANS & METAL PARTITION DETAILS, BLDG. W-4
41	4	C	15134	23	0		08-Jun-53		442	UN	MISCELLANEOUS DETAILS, BLDG. W-4
41	4	C	15135	24	0		08-Jun-53		442	UN	FIRST FLOOR EQUIPMENT LAYOUT BLDG. W-4
41	4	C	15136	25	0		08-Jun-53		442	UN	SECOND FLOOR EQUIPMENT LAYOUT BLDG. W-4
41	4	C	15137	26	0		08-Jun-53		442	UN	EQUIPMENT SCHEDULE & DETAILS BLDG. W-4
41	4	C	15138	27	1		08-Jun-53		442	UN	FIRST FLOOR REFLECTED CEILING PLAN, DET. & RM. FINISH SCHED., BLDG. W-4
41	4	C	15139	28	0		08-Jun-53		442	UN	SECOND FLOOR REFLECTED CEILING PLAN, BLDG. W-4
41	4	C	15142	31	1		08-Jun-53		442	E	EXTENSION OF ELECTRICAL SERVICES BLDG. W-4 TO BLDG. W-2
41	4	C	15143	32	1		08-Jun-53		442	UN	FOUNDATION AND UTILITY TUNNEL PLAN, BLDG. W-4
41	4	C	15144	33	1		08-Jun-53		442	UN	FIRST FLOOR FRAMING PLAN BLDG. W-4
41	4	C	15145	34	1		08-Jun-53		442	UN	SECOND FLOOR FRAMING PLAN BLDG. W-4
41	4	C	15146	35	0		08-Jun-53		442	UN	ROOF FRAMING PLAN BLDG. W-4
41	4	C	15147	36	0		08-Jun-53		442	UN	COUNTING ROOM & CORRIDOR DETAILS BLDG. W-4
41	4	C	15148	37	0		08-Jun-53		442	UN	GENERAL NOTES, SCHEDULES & TYPICAL DETAILS, BLDG. W-4
41	4	C	15149	38	1		08-Jun-53		442	UN	CONCRETE WALL SECTIONS BLDG. W-4
41	4	C	15150	39	0		08-Jun-53		442	UN	CONCRETE WALL SECTIONS & DETAILS BLDG. W-4
41	4	C	15151	40	0		08-Jun-53		442	UN	STEEL DETAILS & SECTIONS BLDG. W-4
41	4	C	15152	41	0		08-Jun-53		442	UN	MISCELLANEOUS SECTIONS & DETAILS BLDG. W-4
41	4	C	15153	42	0		08-Jun-53		442	A	FIRST FLOOR PLAN BLDG. W-4
41	4	C	15154	43	0		08-Jun-53		442	A	SECOND FLOOR PLAN BLDG. W-4
41	4	C	15155	44	0		08-Jun-53		442	UN	UTILITY ROOM & FAN ROOM, PLANS & DETAILS, BLDG. W-4
41	4	C	15156	45	0		08-Jun-53		442	UN	FIRST & SECOND FLOOR SECTIONS BLDG. W-4
41	4	C	15157	46	0			15-Nov-50	442	M	PIPING DETAILS
41	4	C	15158	47	0		08-Jun-53		442	UN	UTILITY TUNNEL PLAN BLDG. W-4
41	4	C	15159	48	0		08-Jun-53		442	A	FIRST FLOOR PLAN BLDG. W-4
41	4	C	15160	49	0		08-Jun-53		442	A	SECOND FLOOR PLAN BLDG. W-4
41	4	C	15161	50	0		08-Jun-53		442	UN	ISOMETRIC PIPING DIAGRAMS BLDG. W-4
41	4	C	15162	51	1		21-Jan-92		442	UN	UTILITY TUNNEL SECTIONS BUILDING W-4 PROJECT TA-41 (AS-BUILTS)
41	4	C	15163	52	0		08-Jun-53		442	UN	UTILITY ROOM & FAN ROOM PLAN, SECTIONS & DETAILS, BLDG. W-4
41	4	C	15164	53	1		21-Jan-92		442	UN	PLANS, SECTIONS & DETAILS BUILDING W-4 PROJECT TA-41 (AS-BUILTS)
41	4	C	15165	54	0		08-Jun-53		442	F	FIRST & SECOND FLOOR PLANS SPRINKLER SYSTEM, BLDG W-4
41	4	C	15166	55	1		21-Jan-92		442	UN	SECTIONS & DETAILS - SFPRINKLER SYSTEM BUILDING W-4, PROJECT TA-41 (AS-BUIL
41	4	C	15167	56	1		08-Jun-53		442	UN	SYMBOLS & FIXTURE SCHEDULE
41	4	C	15172	61	2		08-Jun-53		442	E	CONDUIT & FEEDER DIAGRAM, ELECTRIC & TELEPHONE , BLDG. W-4
41	4	C	15173	62	2		08-Jun-53		442	UN	UTILITY, FAN & EQUIPMENT ROOM, PLAN & SECTIONS, BLDG. W-4

41	4	C	15174	63	3		21-Jan-92		442	F	UTILITY TUNNEL FEEDER, FIRE ALARM & LIGHTING PLAN BUILDING W-4, PROJECT TA-41
41	4	C	15175	64	3		08-Jun-53		442	UN	FIRST FLOOR RECEPTACLE PLAN BLDG. W-4
41	4	C	15176	65	2		08-Jun-53		442	E	FIRST FLOOR LIGHTING PLAN BLDG. W-4
41	4	C	15177	66	2		08-Jun-53		442	UN	SECOND FLOOR RECEPTACLE PLAN BLDG. W-4
41	4	C	15178	67	2		08-Jun-53		442	UN	SECOND FLOOR IGHTING PLAN BLDG. W-4
41	4	C	15179	68	1		08-Jun-53		442	E	LABORATORY PANELS & BATTERY, SELECTOR PANEL DET., BLDG. W-4
41	4	C	15180	69	1		08-Jun-53		442	UN	D.C DISTRIBUTION SWITCHBOARD DETAILS, BLDG. W-4
41	4	C	15181	70	1		08-Jun-53		442	UN	D.C. DISTRIBUTION WIRING DIAGRAMS BLDG. W-4
41	4	C	15182	71	3		08-Jun-53		442	UN	PANEL & SWITCHBOARD SCHEDULE BLDG. W-4
41	4	C	15183	72	2		08-Jun-53		442	F	FIRST FLOOR TELEPHONE, FIRE AND INTRUSION ALARM PLAN, BLDG. W-4
41	4	C	15184	73	1		08-Jun-53		442	F	SECOND FLOOR TELEPHONE, FIRE AND INTRUSION ALARM PLAN, BLDG. W-4
41	4	C	15185	74	2		30-Sep-53	30-Sep-53	442	F	WIRING DIAGRAMS INTRUSION & FIRE ALARM SYSTEMS
41	4	C	16981	2	0		21-May-56		0	UN	BLDG. W-4, W-SITE
41	4	C	16982	3	0		21-May-56		0	UN	BLDGS. W-1 & W-4, W-SITE
41	4	C	16985	6	0		21-May-56		0	UN	BLDGS. W-4 & W-7, W-SITE
41	4	C	17191	1	0		15-Aug-56	09-Aug-56	0	M	RUEMELIN UNIT INSTALLATION BLDG. W-4 - PLAN AND DETAILS
41	4	C	17192	2	0		15-Aug-56	09-Aug-56	0	M	NOTES AND EQUIPMENT ELECTRICAL - PLAN AND DETAILS
41	4	C	18295	1	0		23-Jan-61		2513	E	ADDITIONAL POWER INSTALLATION, BLDG. W-4 - ELECTRICAL - PLAN, MATERIAL & NOTES
41	4	C	18296	2	1		21-Jan-92		2513	E	ADDITIONAL POWER INSTALLATION - BLDG. W-4 - ELECTRICAL DETAILS & WIRING DIAGRAM
41	4	C	18542	1	1		28-May-59		2069	C	SITE ENTRANCE & ROAD ACCESS, W-4 - CIVIL - LOCATION & PLOT PLAN
41	4	C	18543	2	1		28-May-59		2069	S	STRUCTURAL - PLAN & DETAILS
41	4	C	18743	1	0		08-May-61		2539	AC	SONIC CLEANER VENTILATION, ROOM 233, BLDG. W-4 - ELEC. & MECH. PLAN, SECTIONS &
41	4	C	18795	1	0		07-May-58		2105	S	JIB CRANE INSTALLATION, RM.236, BLDG. W-4 - STRUCTURAL - PLAN & DETAILS
41	4	C	18858	1	0		09-Oct-59		2162	A	OCCUPANCY MODIFICATIONS BLDG. W-4 - LOCATION & FLOOR PLANS
41	4	C	18859	2	0		09-Oct-59		2162	UN	BLDGS. W-4 & W-30 EQUIP. SCHEDULE & DETAILS
41	4	C	18860	3	0		31-Oct-58		2162	A	ARCHITECTURAL DETAILS
41	4	C	18861	4	0		25-Nov-58	06-Nov-58	2162	F	OCCUPANCY MODIFICATIONS, FIRE DOOR SPECIFICATIONS
41	4	C	18862	1	1		21-Jan-92		2162	M	OCCUPANCY MODIFICATIONS - BLDG. W-4 - MECH; VACUUM BENCH INSTALLATION, BLDG. W-4
41	4	C	18978	1	1		14-Mar-57	12-Mar-57	1885	C	MASS SPECTROMETER INSTALLATION, CIVIL AND MECHANICAL PLAN
41	4	C	18979	2	1		14-Mar-57	12-Mar-57	1885	M	MASS SPECTROMETER INSTALLATION, TUNNEL PLAN AND DETAILS
41	4	C	18980	3	1		14-Mar-57	12-Mar-57	1885	E	MASS SPECTROMETER INSTALLATION, ONE LINE DIAGRAM
41	4	C	18981	4	1		14-Mar-57	12-Mar-57	1885	E	MASS SPECTROMETER INSTALLATION, PLAN
41	4	C	18982	5	1		14-Mar-57	12-Mar-57	1885	E	MASS SPECTROMETER INSTALLATION, WIRING DIAGRAM
41	4	C	18983	6	1		14-Mar-57	12-Mar-57	1885	M	MASS SPECTROMETER INSTALLATION, BILL OF MATERIAL
41	4	C	19031	12	0		06-Jul-59	08-Apr-57	1849	A	ENGINEERING & LAB. BLDG., SERV. - FIRST FLOOR W-4 ANNEX
41	4	C	19032	12	0		06-Jul-59	08-Apr-57	1849	A	ENGINEERING & LAB. BLDG., SECOND FLOOR W-4 ANNEX
41	4	C	19033	14	0		06-Jul-59	08-Apr-57	1849	A	ENGINEERING & LAB. BLDG., SERVICES - SECOND FLOOR W-4 ANNEX
41	4	C	19152	1	2		21-Jan-92		3008	M	VACUUM BENCH INSTALLATION, ROOM 236A, BLDG. W-4 - MECHANICAL (AS-BUILTS)
41	4	C	19153	2	1		14-Feb-64		3008	E	ELECTRICAL
41	4	C	19520	1	0		02-Sep-60		2380	AC	AIR CONDITIONING EQUIP. MODS., RMS. 123 & 126, BLDG. W-4 - MECHANICAL - PLAN
41	4	C	19521	2	0		02-Sep-60		2380	M	MECHANICAL - SECTIONS & DETAILS

41	4	C	19522	3	0		02-Sep-60		2380	E	ELECTRICAL - PLANS, NOTES, SCOPE & MATERIAL
41	4	C	19534	1	0		25-Nov-57		2083	UN	WELDER COOLING SYSTEM MODIFICATIONS, ICE HOUSE DOCK, BLDG. W-4 - PLAN & DETAILS
41	4	C	21237	1	1		21-Jan-92		2162	E	OCCUPANCY MODS., ELECTRICAL BUILIDNG W-4, ANNEX - 480 VOLT FEEDER INSTALLATION D
41	4	C	21410	5	0		09-Feb-59		2162	F	OCCUPANCY MODIFICATIONS, BLDG. W-4 - FIRE DOOR SPECIFICATIONS
41	4	C	21411	6	0		03-Mar-59		2162	A	ARCHITECTURAL - DETAILS
41	4	C	21417	1	0		23-Apr-59		2162	M	MECHANICAL - DETAILS (MASS SPECTROMETER INSTALLATION)
41	4	C	21418	2	0		23-Apr-59		2162	M	MECHANICAL - PLAN & SECTION (MASS SPECTROMETER INSTALLATION)
41	4	C	21419	3	0		23-Apr-59		2162	E	ELECTRICAL - PLAN, SCOPE & NOTES (MASS SPECTROMETER INSTALLATION)
41	4	C	23284	1	1		28-Aug-59		2162	A	OCCUPANCY MODIFICATIONS, BLDG. W-4, W-30 - LOCATION & FLOOR PLANS
41	4	C	23285	2	0		28-Aug-59		2162	UN	EQUIPMENT SCHEDULE & DETAILS
41	4	C	23286	3	1		21-Jan-92		2162	UN	OCCUPANY MODIFICATIONS, ROOF PLAN-STACK INSTALLATION BLDGS. W-4 & W-30 (AS-
41	4	C	23287	4	0		28-Aug-59		2162	M	MECHANICAL - LABORATORY SERVICES & LEGEND
41	4	C	23288	5	0		28-Aug-59		2162	M	MECHANICAL - SCHEMATIC LAB. FURNITURE, PIPING DIAGRAM
41	4	C	23289	6	0		28-Aug-59		2162	A	FIRST & SECOND FLOOR PLANS, PIPING CHASE, FL. SLV. & CLG. PIPING
41	4	C	23290	7	0		28-Aug-59		2162	UN	UTILITY TUNNEL PIPING PLAN
41	4	C	23291	8	0		28-Aug-59		2162	M	MECHANICAL - PIPING SECTIONS & DETAILS
41	4	C	23292	9	0		28-Aug-59		2162	M	MECHANICAL - TYP. VAC. HOOD INSTL., PL., SECTS. & DETAILS
41	4	C	23293	10	0		28-Aug-59		2162	UN	ROOF PLAN, AIR SUPPLY & EXHAUST SYSTEMS
41	4	C	23294	11	0		28-Aug-59		2162	AC	HEATING & VENTILATING PLANS, SECTIONS & DETAILS
41	4	C	23295	12	0		28-Aug-59		2162	M	MECHANICAL - AIR SUPPLY UNIT NO. 1
41	4	C	23296	13	0		28-Aug-59		2162	M	MECHANICAL - AIR SUPPLY UNIT NO. 2, SECTION
41	4	C	23297	14	0		28-Aug-59		2162	M	MECHANICAL SCHEMATIC CONTROL DIAGRAM
41	4	C	23298	15	0		28-Aug-59		2162	M	MECH. CONTROL PANEL DETAILS
41	4	C	23299	16	0		28-Aug-59		2162	M	MECH. - STEAM DISTRIBUTION PLAN
41	4	C	23300	17	0		28-Aug-59		2162	M	MECHANICAL STEAM COIL PIPING DIAGRAM
41	4	C	23301	18	0		28-Aug-59		2162	M	MECH. - SECTIONS AND DETAILS
41	4	C	23302	19	0		28-Aug-59		2162	G	MECHANICAL - GENERAL NOTES
41	4	C	23303	20	0		28-Aug-59		2162	M	MECHANICAL - EQUIPMENT LIST
41	4	C	23304	21	0		28-Aug-59		2162	M	MECHANICAL - EQUIPMENT LIST
41	4	C	23305	22	0		28-Aug-59		2162	E	ELEC. - PLAN, SCOPE, NOTES, MATERIAL LIST
41	4	C	23306	23	0		28-Aug-59		2162	E	ELECTRICAL - NAMEPLATE SCHEDULE
41	4	C	23307	24	0		28-Aug-59		2162	E	ELECTRICAL - SINGLE LINE DIAGRAM
41	4	C	23308	25	0		28-Aug-59		2162	E	ELECTRICAL - AC PANEL ONE LINE DIAGRAMS
41	4	C	23309	26	0		28-Aug-59		2162	E	ELECTRICAL PLAN - LIGHTING
41	4	C	23310	27	0		28-Aug-59		2162	E	ELECTRICAL PLAN - POWER
41	4	C	23311	28	0		28-Aug-59		2162	E	ELECTRICAL - PLAN - ROOF
41	4	C	23312	29	0		28-Aug-59		2162	E	ELECTRICAL - PLAN SOUTH UTILITY TUNNEL
41	4	C	23313	30	0		28-Aug-59		2162	E	ELECTRICAL - ELEMENTARY DIAGRAM
41	4	C	23314	31	0		28-Aug-59		2162	E	ELECT. - AC PANEL DETAILS
41	4	C	23315	32	0		28-Aug-59		2162	E	ELECTRICAL - CONTROL PANEL, NO. 1 & NO. 2
41	4	C	23316	33	0		28-Aug-59		2162	E	ELECTRICAL - D.C. SWITCHBOARD DETAILS

41	4	C	23317	34	0		28-Aug-59		2162	E	ELECTRICAL - MULTI-OUTLET ASSEMBLY DETAILS
41	4	C	23661	2	0		21-Sep-60		2467	E	ELECTRICAL PLANS & DETAILS, BLDGS. #W-4 & W-30
41	4	C	23858	14	0		16-Oct-59		1849	A	ARCHITECTURAL, W-4 ANNEX
41	4	C	23861	17	0		16-Oct-59		1849	A	ARCHITECTURAL W-4 ANNEX
41	4	C	23880	36	0		16-Oct-59		1849	S	STRUCTURAL W-4 ANNEX
41	4	C	23881	37	0		16-Oct-59		1849	S	STRUCTURAL W-4 ANNEX
41	4	C	23885	41	0		16-Oct-59		1849	UN	PLUMBING W-4 ANNEX
41	4	C	23888	44	0		16-Oct-59		1849	AC	AIR CONDITIONING & VENTILATION, W-4 ANNEX
41	4	C	25908	1	0		11-Oct-60	11-Oct-60	2162	A	OCCUPANCY MODIF., BLDG. W-4 & BLDG. W-30, ADDITIONAL IMPROVEMENTS, BUMPER LOGS & CO
41	4	C	26107	1	0		03-Aug-62	30-Jul-62	2762	AC	VENTILATION MODS., BLDG. W-4, (AREAS 4A, 4B & 4C) PLANS, ELEVATIONS, SECTIONS
41	4	C	26227	1	0		23-Jan-63		2851	M	VACUUM BENCH EXHAUST INSTALLATION, ROOM 236, BLDG. W-4, MECHANICAL - SECTION, DE
41	4	C	26311	1	0		03-Aug-61		2578	UN	VAC BENCH, HOIST & MANIFOLD INSTALLATION, RMS. 102, 106 & 236, BLDG. W-4, MONORA
41	4	C	26312	2	0		03-Aug-61		2578	UN	STACK INSTALLATION DETAILS
41	4	C	26313	3	0		03-Aug-61		2578	M	MECHANICAL - PLAN & PIPING DIAGRAM
41	4	C	26314	4	0		03-Aug-61		2578	M	MECHANICAL - SECTIONS, EQUIPMENT LIST & NOTES
41	4	C	26315	5	0		03-Aug-61		2578	E	ELECTRICAL - PLAN, SCOPE, NOTES & MATERIAL
41	4	C	26629	1	0		26-Jan-62		2705	S	SECURITY SCREENS, ROOM 102, BLDG. W-4, STRUCTURAL - PLANS & DETAILS
41	4	C	27217	1	0		02-May-62		2674	UN	BLAST SHIELD & JIB CRANE INSTALLATION, RMS. 256 & 262, BLDG. W-4, PLAN & DETAILS
41	4	C	27603	1	0		10-Apr-64		3044	M	COMPRESSOR INSTALLATION, ROOMS 256 & 258, BLDG. W-4, MECHANICAL-PIPING PLANS, SE
41	4	C	27604	2	0		10-Apr-64		3044	M	COMPRESSOR INSTALLATION, ROOMS 256, & 258, BLDG. W-4, MECHANICAL - DIAGRAM & DET
41	4	C	27605	3	0		10-Apr-64		3044	M	COMPRESSOR INSTALLATION, ROOMS 256 & 258, BLDG. W-4, MECHANICAL - MANIFOLD PLANS
41	4	C	27606	4	0		10-Apr-64		3044	E	COMPRESSOR INSTALLATION, ROOMS 256 & 258, BLDG. W-4, ELECTRICAL - PLAN, WIRING,
41	4	C	27884	1	0		27-Feb-64		2981	G	STILL INSTALLATION, BLDG. W-1, AREA 4, PLANS, ELEVATIONS, DETAILS & GENERAL NOTE
41	4	C	27885	2	0		27-Feb-64		2981	UN	STILL INSTALLATION, BLDG. W-1, AREA 4, SINGLE LINE DIAGRAM, DETAIL, NAMEPLATE SC
41	4	C	29189	1	0		16-Jul-62		2584	AC	VENTILAITNG SYSTEM, MOFICIATIONS, BLDG. W-4 & ANNEX - LOCATION & STACK FOUNDATIO
41	4	C	29190	2	0		16-Jul-62		2584	UN	STACK DETAILS
41	4	C	29191	3	0		16-Jul-62		2584	M	MECHANICAL - ROOF PLAN
41	4	C	29192	4	0		16-Jul-62		2584	M	MECHANICAL - SECTIONS & DETAILS
41	4	C	29193	5	0		16-Jul-62		2584	E	ELECTRICAL - PLANS & DETAILS
41	4	C	29653	1	1		21-Jan-92		3100	G	SECURITY MOD - LOC.PLAN, ARCH. & MECH FLOOR PLAN, MECH EQUIP LIST, DET. & GENERA
41	4	C	29654	2	1		21-Jan-92		3100	UN	SECURITY MOD - FENCE, MONORAIL & GUARD STATION DETAILS, DOOR A DETAILS, BLDG. W-
41	4	C	29655	3	1		21-Jan-92		3100	AC	SECURITY MOD - SECTIONS, DETAILS, DOOR B DETAIL, & MECH. VENTILATING BLDG. W-4
41	4	C	29656	4	0		22-Jul-64		3100	E	ELECTRICAL - PLANS
41	4	C	29657	5	0		22-Jul-64		3100	E	ELECTRICAL - SCOPE, NOTES & MATERIAL
41	4	C	29659	1	0		20-Feb-63		2787	AC	AIR CONDITIONING MODS., ROOM 126, BLDG. W-4 - PLAN, SECTION, DETAILS & NOTES
41	4	C	29660	2	0		20-Feb-63		2787	E	ELECTRICAL - PLAN
41	4	C	33909	1	1		21-Jan-92		4660	AC	VENTILATION & TEMPERATURE CONTROL, BLDG. W-4 & W-30, MECHANICAL PLAN AND NOTES
41	4	C	33910	2	1		21-Jan-92		4660	AC	VENTILATION & TEMPERATURE CONTROL, BLDGS. W-4 & W-30 -MECH-DETAILS SECTIONS EQUI
41	4	C	33911	3	1		21-Jan-92		4660	AC	VENTILATION & TEMPERATURE CONTROL BLDGS. W-4 & W-30 ELECT. PLAN MATERIAL NOTES
41	4	C	34107	1	0		30-Oct-67		3716	S	STRESS COAT HOOD FACILITY STRUCTURAL - BLDG. ANNEX W-4
41	4	C	34108	2	0		30-Oct-67		3716	M	MECHANICAL - PLANS & DETAILS - STRUCTURAL - DETAILS BLDG. W-4 ANNEX

41	4	C	34109	3	0		30-Oct-67	3716	M	MECHANICAL - EQUIPMENT LIST & NOTES BLDG. W-4 ANNEX
41	4	C	34110	4	0		30-Oct-67	3716	E	ELECTRICAL - PLAN BLDG. W-4 ANNEX
41	4	C	35241	1	0		09-Jun-67	3676	AC	AIR CONDITIONING, ROOM 115, BLDG. W-4 - MECHANICAL & ELECTRICAL
41	4	C	35615	1	1		09-Apr-68	3807	AC	A/C COMPRESSOR CONTROLS & COOLING TOWER MODIFICATIONS, BLDG. W-4, ELECTRICAL & P
41	4	C	35616	2	1		09-Apr-68	3807	AC	A/C COMPRESSOR CONTROL & COOLING TOWER MODS., BLDG. W-4, PLANS, PNEUMATIC CONTRO
41	4	C	35728	1	0		27-Sep-67	3675	UN	MASS SPECTROMETER INSTALLATION, ROOM 123, BLDG. W-4
41	4	C	36325	1	0		27-Feb-68	0	UN	AIR LINE INSTALLATION, BLDG. W-4 & W-30
41	4	C	36897	1	0		28-Oct-68	4012	AC	VENTILATION MODIFICATION, ROOM 123, BLDG. W-4, PLAN
41	4	C	36898	2	0		28-Oct-68	4012	AC	VENTILATION MODIFICATION, ROOM 123, BLDG. W-4, DETAILS
41	4	C	37505	1	1		20-Mar-70	4070	M	LN2 SUPPLY SYSTEM MECH.-ELEC.-PLAN & DETAILS, BLDG. W-4, RM. 123
41	4	C	37506	2	1		20-Mar-70	4070	M	LN2 SUPPLY SYSTEM BLDG. W-4, RM. 123, MECH. SECTIONS & DETAILS
41	4	C	37661	1	3		29-Sep-69	4148	A	MODS. 1ST & 2ND FLOOR, BLDG. W-4, FIRST FLOOR ARCH. PLAN
41	4	C	37662	2	3		29-Aug-69	4148	A	SECOND FLOOR ARCH. PLAN
41	4	C	37663	3	3		29-Aug-69	4148	A	FIRST FLOOR ARCH. PLAN
41	4	C	37664	4	3		29-Sep-69	4148	A	SECOND FLOOR ARCH. PLAN
41	4	C	37665	5	3		29-Aug-69	4148	UN	MISC. DETAILS
41	4	C	37666	6	3		29-Aug-69	4148	AC	VENTILATION DETAILS
41	4	C	37667	7	3		29-Aug-69	4148	UN	ELEVATED WALK PLAN & DETAILS
41	4	C	37668	8	3		29-Aug-69	4148	E	FIRST FLOOR ELECT. PLAN
41	4	C	37669	9	3		29-Aug-69	4148	E	SECOND FLOOR ELECT. PLAN
41	4	C	38836	1	0		28-Jan-71	4576	M	UNIVERSAL TESTING MACHINE INSTALLATION, BLDG. W-4, RMS. 233-235 - MECH. - ELEC.
41	4	C	38842	1	1		21-Jan-92	4576	M	UNIVERSAL TESTING MACHINE INSTALLATION ARCH. MECH. ELEC. BLDG. W-4 RMS. 233 & 23
41	4	C	39645	1	0		22-Mar-71	4619	M	COOLING RM. NO. 236, BLDG. W-4 - MECHANICAL; PARTIAL PLAN, SECTION AND DETAILS
41	4	C	39646	2	0		22-Mar-71	4619	M	ELECTRICAL AND MECHANICAL PLAN EQUIPMENT & NOTES
41	4	C	39854	1	1		18-Jun-71	4675	S	DATA ACQUISITION SYSTEM, RM - 230, STRUCTUREAL; PLAN, NOTES, DETAILS
41	4	C	39855	2	1		18-Jun-71	4675	M	DATA ACQUISITION SYSTEM. RM-230, W-4 - MECHANICAL; PLAN, SECTIONS, DIAGRAMS, EQ
41	4	C	39856	3	1		21-Jan-92	4675	E	DATA ACQUISTION SYSTEM ROOM 230, BLDG. W-4 ELEC-POWER AND CABLE LAYOUT (AS-BU
41	4	C	39857	4	1		21-Jan-92	4675	F	DATA ACQUISTION SYSTEM, ROOM 230, BLDG. W-4 ELEC. SMOKE DETECTION SYSTEM (AS-B
41	4	C	40784	1	0		04-May-72	4858	UN	TEMPERATURE CONTROL ROOM 241, BUILDING W-4
41	4	C	40785	2	0		04-May-72	4858	UN	TEMPERATURE CONTROL ROOM 241, BUILDING W-4
41	4	C	41053	1	1		09-Nov-72	4944	M	H.P. COMPRESSOR INSTALLATION, MECH. & ELECT; PARTIAL PLAN, DETAILS, NOTES & EQU
41	4	C	41421	1	1		21-Jan-92	5000	E	HOIST MODS., RM. 240 & SHIPPING DOCK STRUCTURAL AND ELECTRICAL, BLDG. W-4 (
41	4	C	41732	1	1		10-Nov-87	7071	A	COOLING WATER MODIFICATIONS FIRST FLOOR PLAN, BLDG. W-4
41	4	C	41732	3	1		10-Nov-87	7071	UN	COOLING WATER MODIFICATION, EQUIP. ROOM LAYOUT & SCHEMATIC
41	4	C	41732	2	1		10-Nov-87	7071	A	COOLING WATER MODIFICATION, SECOND FLOOR PLAN
41	4	C	42576	1	0		09-Jul-74	5206	UN	SECURE AREA FOR COMMUNICATIONS LINK, BLDG. W-4 PLANS - SECTIONS & DETAILS
41	4	C	42577	2	0		09-Jul-74	5206	M	MECH; PLANS, NOTES, DETAIL & EQUIPMENT LIST
41	4	C	42578	4	0		09-Jul-74	5206	E	ELEC; BILL OF MATERIAL, NOTES, DETAIL, CONNECTION DIAGRAM & NAMEPLATES
41	4	C	42579	3	0		09-Jul-74	5206	E	ELECTRICAL PLANS
41	4	C	42652	4	1		21-Jan-92	5254	M	ROOM 236 MOD., BLDG. W-4, MECH; ELEVATIONS, NOTES, EQUIPMENT LIST (AS-BU
41	4	C	42652	1	1		21-Jan-92	5254	A	ROOM 236 MOD., BLDG. W-4, TA-41 LOCATION PLAN, ROOF & FLOOR PLAN, DOOR SCHED.

41	4	C	42652	3	0		10-Oct-74		5254	M	MECH; PARTIAL PLAN AND DETAILS
41	4	C	42652	5	0		10-Oct-74		5254	E	ELEC; PLAN, BILL OF MATERIAL, NAMEPLATES, NOTES AND SCOPE OF WORK
41	4	C	42652	2	0		10-Oct-74		5254	M	MECH; PARTIAL ROOF PLAN, DETAIL AND SECTION
41	4	C	42656	1	1		21-Jan-92		5257	E	MODIFY EXHAUST SYS., CONTROLS ELEC; PLANS BILL OF MAT. NOTES NAMEPLATES SCOPE &
41	4	C	42907	6	0		03-Feb-78		5563	M	FIRE PROTECTION IMPROVEMENTS, MECH; FIRST FLOOR PLAN
41	4	C	42907	3	1		03-Feb-78		5563	C	FIRE PROTECTION IMPROVEMENTS, CIVIL; SECTIONS AND DETAILS
41	4	C	42907	2	1		03-Feb-78		5563	C	FIRE PROTECTION IMPROVEMENTS, CIVIL; PLOT PLAN
41	4	C	42907	1	1		03-Feb-78		5563	T	FIRE PROTECTION IMPROVEMENTS, BLDG. W-4, TA-41. TITLE SHEET
41	4	C	42907	35	0		08-Dec-76	08-Dec-76	5563	A	FIRE PROTECTION IMPROVEMENTS, SECOND FLOOR PLAN
41	4	C	42907	34	0		08-Dec-76	08-Dec-76	5563	A	FIRE PROTECTION IMPROVEMENTS, FIRST FLOOR PLAN
41	4	C	42907	33	0		08-Dec-76	08-Dec-76	5563	A	FIRE PROTECTION IMPROVEMENTS, BASEMENT FLOOR PLAN
41	4	C	42907	16	1		03-Feb-78		5563	E	FIRE PROTECTION IMPROVEMENTS, ELEC; UNDERGOUND VAULT AND TUNNEL
41	4	C	42907	15	1		03-Feb-78		5563	E	FIRE PROTECTION IMPROVEMENTS, ELEC; SECOND FLOOR PLAN
41	4	C	42907	14	1		03-Feb-78		5563	E	FIRE PROTECTION IMPROVEMENTS, ELEC; FIRST FLOOR PLAN
41	4	C	42907	13	1		03-Feb-78		5563	E	FIRE PROTECTION IMPROVEMENTS, ELEC; BASEMENT PLAN
41	4	C	42907	12	1		03-Feb-78		5563	E	FIRE PROTECTION IMPROVEMENTS, ELEC; BLOCK DIAGRAMS
41	4	C	42907	7	0		03-Feb-78		5563	M	FIRE PROTECTION IMPROVEMENTS, MECH; SECOND FLOOR PLAN
41	4	C	42907	8	0		03-Feb-78		5563	M	FIRE PROTECTION IMPROVEMENTS, MECH; PLAN, SECTION, AND DETAILS
41	4	C	42907	9	0		03-Feb-78		5563	M	FIRE PROTECTION IMPROVEMENTS, MECH; TUNNEL PLAN, SECTIONS AND DETAILS
41	4	C	42907	11	1		03-Feb-78		5563	E	FIRE PROTECTION IMPROVE., ELEC; NAMEPLATES, BILL OF MATERAILS, AND NOTES
41	4	C	42907	10	0		03-Feb-78		5563	M	FIRE PROTECTION IMPROVEMENTS, MECH; SECTION AND DETAILS
41	4	C	42907	32	0		08-Dec-76	08-Dec-76	5563	C	FIRE PROTECTION IMPROVEMENTS PLOT PLAN BLDG. W-4, TA-41. TITLE I PACKAGE
41	4	C	42907	4	0		03-Feb-78		5563	C	FIRE PROTECTION IMPROVEMENTS, CIVIL; DETAILS
41	4	C	42907	5	0		03-Feb-78		5563	M	FIRE PROTECTION IMPROVEMENTS, MECH; BASEMENT PLAN
41	4	C	42986	1	0		13-May-76		5543	AC	AIR CONDITING ROOM 230. BLDG. W-4. TA-41. MECH - ELEC. PLAN, EQUIP. LIST AND NO
41	4	C	42986	2	0		13-May-76		5543	M	MECH - PLAN, SEC., AND DETAILS
41	4	C	43342	1	1		21-Jan-92		5708	UN	HALON SYSTEM INSTALLATION ROOMS #221 & #230, BLDG. W-4 (AS-BUILT)
41	4	C	43382	2	2		21-Jan-92		5741	M	GAS COMPRESSOR SYSEM MODS., BLDG. W-4, MECH; NOTES EQUIP. LIST & DETAIL (AS
41	4	C	43382	1	2		21-Jan-92		5741	M	GAS COMPRESSOR SYSTEM MODS., BLDG. W-4, TA-41 MECH; PARTIAL PLAN ROOMS 260 AND
41	4	C	43382	9	1		05-Jun-78		5741	E	ELECT; ELEMENTARY WIRING DIAGRAMS
41	4	C	43382	8	1		05-Jun-78		5741	E	ELECT; COMPRESSOR NO. 2 DETAIL WIRING DIAGRAM
41	4	C	43382	7	1		05-Jun-78		5741	E	ELECT; COMPRESSOR NO. 1 DETAIL WIRING DIAGRAM
41	4	C	43382	4	2		05-Jun-78		5741	E	ELECT; ELEVATIONS
41	4	C	43382	5	2		21-Jan-92		5741	E	ELECT; ELEVATORS (AS-BUILTS)
41	4	C	43382	3	2		21-Jan-92		5741	E	ELECT; FLOOR PLAN (AS-BUILT)
41	4	C	43382	6	1		05-Jun-78		5741	E	ELECT; SINGLE LINE DIAGRAMS
41	4	C	43382	10	1		05-Jun-78		5741	E	ELECT; BILL OF MATERIAL, NAMEPLATES AND NOTES
41	4	C	43403	1	0		18-Jan-78		5761	C	OFFICE SPACE CONVERSION, BLDG. W.4, TA-41 CIVIL; PLAN, SECTION NOTES
41	4	C	43403	3	0		18-Jan-78		5761	E	ELEC; PLAN
41	4	C	43403	2	0		18-Jan-78		5761	M	MECH; PLAN AND DETAIL
41	4	C	43554	9	0		26-Sep-78	11-Dec-79	5940	E	UPGRADE VENTILATION SYS, MAIN VAULT AREA 5 ELEC; OFFICE AND LAB AREA PLAN

41	4	C	43664	7	1		25-Apr-79		6157	E	ELECT; BILL OF MATERIAL, NOTES AND NAMEPLATE SCHEDULE
41	4	C	43664	4	1		25-Apr-79		6157	M	MECH; NOTES
41	4	C	43664	3	1		25-Apr-79		6157	M	MECH; PARTIAL ROOF PLAN, SECTION AND DETAIL
41	4	C	43664	2	1		25-Apr-79		6157	M	MECH; PARTIAL SECOND FLOOR PLANS
41	4	C	43664	1	1		25-Apr-79		6157	M	DARK ROOM AND SHOWER MODS MECH; PARTIAL FIRST FLOOR PLANS BLDG. W-4 TA-41
41	4	C	43664	5	1		25-Apr-79		6157	M	MECH; EQUIPMENT LIST
41	4	C	43664	6	1		25-Apr-79		6157	E	ELECT; ELECTRICAL PLANS
41	4	C	43721	8	0		31-Jan-80		6279	E	ELEC; PLANS
41	4	C	43721	7	0		31-Jan-80		6279	E	ELEC; BILL OF MATERIAL AND NOTES
41	4	C	43721	6	0		31-Jan-80		6279	M	MECH; EQUIPMENT LIST
41	4	C	43721	5	0		31-Jan-80		6279	M	MECH; NOTES
41	4	C	43721	4	1		21-Jan-92		6279	M	MECH; SECTIONS (AS-BUILTS)
41	4	C	43721	1	0		31-Jan-80		6279	C	OFFICE MODIFICATIONS SECOND FLOOR CIVIL; NOTES, LOCATION PLAN LEGEND AND DRAWIN
41	4	C	43721	3	0		31-Jan-80		6279	M	MECH; SECTIONS
41	4	C	43721	2	0		31-Jan-80		6279	C	CIVIL; PLAN, PARTIAL PLAN AND SECTION
41	4	C	43974	1	0				6804	UN	OFFICE MODS SECOND FLOOR BLDG. 4 TA-41
41	4	C	43974	2	0				6804	UN	OFFICE MODS SECOND FLOOR PLAN SECTION AND DETAILS
41	4	C	44011	2	0		21-Jan-92	28-May-82	6870	M	REPLACE CONDENSATE PIPING, MECH; PARTIAL FIRST FLOOR PLAN AND DETAILS
41	4	C	44011	3	0		02-Jun-82	28-Feb-82	6870	M	REPLACE CONDENSATE PIPING, MECH; NOTES
41	4	C	44011	1	1		01-Apr-03	16-Jul-90	6870	M	REPLACE CONDENSATE PIPING, MECH; PARTIAL BASEMENT FLOOR PLAN AND DETAILS
41	4	C	44065	112	1		27-May-82		4800	M	MECH; PLAN SECTION AND DETAILS
41	4	C	44065	114	1		27-May-82		4800	M	MECH; SECTIONS AND DETAILS
41	4	C	44065	113	1		27-May-82		4800	M	MECH; TUNNEL PLAN, SECTIONS AND DETAILS
41	4	C	44065	111	1		27-May-82		4800	M	MECH; SECOND FLOOR PLAN
41	4	C	44065	110	1		27-May-82		4800	M	MECH; FIRST FLOOR PLAN
41	4	C	44065	109	1		27-May-82		4800	M	MECH; BASEMENT PLAN
41	4	C	44065	108	1		27-May-82		4800	C	CIVIL; DETAILS
41	4	C	44065	106	2		27-May-82		4800	C	CIVIL; PLOT PLAN, BLDG. W-4, TA-41
41	4	C	44065	107	1		27-May-82		2800	C	CIVIL; SECTIONS AND DETAILS
41	4	C	44376	2	1		21-May-84	18-Apr-89	7371	G	EXHAUST SYSTEM MODIFICATIONS, GEN., SUBMITTALS NOTES, LIST AND LEGEND
41	4	C	44376	3	1		21-May-84	18-Apr-89	7371	M	EXHAUST SYSTEM MODIFICATIONS, MECH., ROOF PLAN AND DETAIL
41	4	C	44376	1	2		21-May-92	18-Apr-89	7371	T	EXHAUST SYSTEM MODIFICATIONS, TITLE SHEET AND INDEX TO DRAWINGS
41	4	C	44376	1	1		26-Nov-02	25-Jan-85	7371	T	EXHAUST SYSTEM MODIFICATIONS, TITLE SHEET AND INDEX TO DRAWINGS
41	4	C	44376	4	1		21-May-84	18-Apr-89	7371	M	EXHAUST SYSTEM MODIFICATIONS, MECH., NOTES AND DETAILS, ROOF PENETRATIONS
41	4	C	44520	21	0		20-May-85	20-May-85	8065	E	SAFEGUARDS & SECURITY UPGRADES, POWER & LIGHTING, ELEC., EXTERIOR LIGHTING LAYOUTS
41	4	C	44524	1	0		21-Jun-85	21-Jun-85	8067	S	SAFEGUARDS AND SECURITY UPGRADES, STRUCTURE HARDENING, STRUCT., PLANS, SECTIONS A
41	4	C	44545	1	0		31-Jul-85	29-Jul-85	8067	A	SAFEGUARDS & SECURITY UPGRADES, STRUCTURE HARDENING, ARCH., FIRST FLOOR DOORS
41	4	C	44545	3	0		31-Jul-85	29-Jul-85	8067	A	SAFEGUARDS & SECURITY UPGRADES, STRUCTURE HARDENING, ARCH., DOOR SCHEDULE & SPEC
41	4	C	44545	2	0		31-Jul-85	29-Jul-85	8067	A	SAFEGUARDS & SECURITY UPGRADES, STRUCTURE HARDENING, ARCH., SECOND FLOOR DOORS
41	4	C	44545	3	1		31-Jul-85	16-May-90	8067	A	SAFEGUARDS & SECURITY UPGRADES, STRUCTURE HARDENING, ARCH., DOOR SCHEDULE & SPEC
41	4	C	44782	32	3		20-Oct-87	10-Sep-87	7053	E	HVAC SYSTEM UPGRADE, ELEC; UTILITY TUNNEL POWER & DEMOLITION PLANS

41	4	C	44782	20	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; HVAC CONTROL DIAGRAM
41	4	C	44782	10	1		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; 2ND FLOOR HVAC PLAN
41	4	C	44782	5	3		20-Oct-87	10-Sep-87	7053	S	HVAC SYSTEM UPGRADE, STRUCT; EQUIPMENT PADS AND FOUNDATIONS
41	4	C	44782	26	3		21-Jan-92	07-Jan-88	7053	M	HVAC SYSTEM UPGRADE, MECH; EQUIPMENT LIST
41	4	C	44782	34	3		20-Oct-87	10-Sep-87	7053	E	HVAC SYSTEM UPGRADE, ELEC; PARTIAL PLANS, SECTIONS AND DETAILS
41	4	C	44782	15	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; 2ND FLOOR DEMOLITION PLAN
41	4	C	44782	18	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; MECHANICAL ROOMS-DEMOLITION PLANS
41	4	C	44782	17	1		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; 1ST FLOOR DEMOLITION PLAN-UTILTIY TUNNEL
41	4	C	44782	16	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; 2ND FLOOR DEMOLITION PLAN
41	4	C	44782	19	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; HVAC CONTROL DIAGRAM
41	4	C	44782	22	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; GENERAL NOTES
41	4	C	44782	24	2		21-Jan-92	07-Jan-80	7053	M	HVAC SYSTEM UPGRADE, MECH; EQUIPMENT LIST
41	4	C	44782	12	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; MECHANICAL ROOMS
41	4	C	44782	11	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; 1ST FLOOR HVAC PLAN
41	4	C	44782	9	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; 2ND FLOOR HVAC PLAN
41	4	C	44782	8	1		20-Oct-87	10-Sep-87	7053	S	HVAC SYSTEM UPGRADE, STRUCT; AIR HANDLING UNIT #3 SUPPORT FRAME
41	4	C	44782	7	0		20-Oct-87	10-Sep-87	7053	S	HVAC SYSTEM UPGRADE, STRUCT; LOUVER AND GLASS BLOCK INSTALLATION
41	4	C	44782	6	1		20-Oct-87	10-Sep-87	7053	S	HVAC SYSTEM UPGRADE, STRUCT; SECTION AND DETAILS
41	4	C	44782	4	0		20-Oct-87	10-Sep-87	7053	S	HVAC SYSTEM UPGRADE, STRUCT; DEMOLITION PLAN
41	4	C	44782	3	1		20-Oct-87	10-Sep-87	7053	S	HVAC SYSTEM UPGRADE, STRUCT; GENERAL NOTES
41	4	C	44782	2	2		20-Oct-87	10-Sep-87	7053	G	HVAC SYSTEM UPGRADE, GEN; SUBMITTALS
41	4	C	44782	1	4		20-Oct-87	10-Sep-87	7053	T	HVAC SYSTEM UPGRADE, BLDG. W4, TITLE SHEET (AS-BUILT)
41	4	C	44782	33	1		20-Oct-87	10-Sep-87	7053	E	HVAC SYSTEM UPGRADE, ELEC; INTERCONNECT & WIRING DIAGRAMS
41	4	C	44782	31	3		20-Oct-87	10-Sep-87	7053	E	HVAC SYS. UPGRADE, ELEC; MECH. ROOMS 128 & 227 & CHILLER ROOM 130 POWER PLANS
41	4	C	44782	30	1		20-Oct-87	10-Sep-87	7053	E	HVAC SYSTEM UPGRADE, ELEC; DEMOLITION PLAN
41	4	C	44782	29	1		20-Oct-87	10-Sep-87	7053	E	HVAC SYSTEM UPGRADE, GEN. NOTES, ELEC. EQUIP. LIST, NAME PLATE SCHED. & LEGEND
41	4	C	44782	28	4		06-Jul-88	07-Jan-88	7053	M	HVAC SYSTEM UPGRADE, MECH; EQUIPMENT LIST
41	4	C	44782	27	3		21-Jan-92	07-Jan-88	7053	M	HVAC SYSTEM UPGRADE, MECH; EQUIPMENT LIST
41	4	C	44782	25	2		19-Feb-88	07-Jan-88	7053	M	HVAC SYSTEM UPGRADE, MECH; EQUIPMENT LIST
41	4	C	44782	14	4		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; HVAC DETAILS
41	4	C	44782	13	3		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; HVAC SECTIONS AND DETAIL
41	4	C	44782	23	1		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; GENERAL NOTES
41	4	C	44782	21	2		20-Oct-87	10-Sep-87	7053	M	HVAC SYSTEM UPGRADE, MECH; HVAC CONTROL DIAGRAM
41	4	C	44971	1	0		02-Apr-86	04-Mar-86	8464	E	PINCH WELDER INSTALL. ELEC; BILL OF MATERIAL, NOTES, LEG. SCOPE OF WORK LOC. PLA
41	4	C	44994	1	0		26-Mar-86	13-Mar-86	8510	M	DRAINAGE DIVERSION, MECH., FLOOR PLAN, PIPING ISOMETRIC, SECTION & NOTES
41	4	C	44994	4	0		26-Mar-86	13-Mar-86	8510	G	DRAINAGE DIVERSION, GEN., SUBMITTAL SHEET
41	4	C	44994	2	0		26-Mar-86	13-Mar-86	8510	M	DRAINAGE DIVERSION, MECH., GENERAL NOTES & EQUIPMENT LIST
41	4	C	44994	3	0		26-Mar-86	13-Mar-86	8510	E	DRAINAGE DIVERSION, ELEC., PARTIAL PLAN, NOTES, LEGEND & EQUIPMENT LIST, NAMEPLATE SC
41	4	C	45701	2	1		21-Jan-92	11-Jul-89	10174	M	REPLACE STEAM BOILERS, MECH; SECTIONS
41	4	C	45701	3	0		27-Jul-89	11-Jul-89	10174	M	REPLACE STEAM BOILERS, MECH; EQUIPMENT LIST
41	4	C	45701	4	0		27-Jul-89	11-Jul-89	10174	M	REPLACE STEAM BOILERS, MECH; NOTES

41	4	C	45701	1	1		21-Jan-92	11-Jul-89	10174	M	REPLACE STEAM BOILERS, MECH; FLOOR PLAN, DETAIL, SCHEDULE & LEGEND,IRI GAS TRAIN DET
41	4	C	45854	79	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; LIGHTING & ELECTRICAL EQUIP. PLAN WEST ICE HOUSE WI
41	4	C	45854	80	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN SOUTH TUNNEL
41	4	C	45854	82	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN EAST OFFICE WING
41	4	C	45854	81	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN WEST OFFICE WING
41	4	C	45854	84	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN UTILITY TUNNEL
41	4	C	45854	28	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; SECOND FLOOR PLAN COMPOSITE OF PIPING
41	4	C	45854	62	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-3 AND LP-4
41	4	C	45854	61	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-1 AND LP-2
41	4	C	45854	59	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES PP-5, PP-6 AND PP-7
41	4	C	45854	55	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES PP-B AND PP-C
41	4	C	45854	51	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; MASTER ONE LINE DIAGRAM PP-5, PP-1 PP-E
41	4	C	45854	50	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; MASTER ONE LINE DIAGRAM SUS-A & PP-C
41	4	C	45854	49	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; RISER DIAGRAM
41	4	C	45854	45	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; FIRST FLOOR PLAN COOLING WATER
41	4	C	45854	44	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; AIR & GAS ISOMETRIC
41	4	C	45854	76	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; LIGHTING & ELECTRICAL EQUIP. PLAN WEST OFFICE WING
41	4	C	45854	75	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; LIGHTING & ELECTRICAL EQUIP. PLAN UTILITY TUNNEL
41	4	C	45854	74	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, ELECT; LIGHTING & ELECTRICAL EQUIP. ROOM 127/MECH. ROOM AF
41	4	C	45854	73	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; LIGHTING & ELECTRICAL EQUIP. PLAN EAST OFFICE WING
41	4	C	45854	71	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; LIGHTING AND ELECTRICAL EQUIP. PLAN SOUTH TUNNEL
41	4	C	45854	69	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-21 AND LP-22
41	4	C	45854	68	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; PANEL SCHEDULES LP-19 & LP-20
41	4	C	45854	67	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-16, LP-17 AND LP-18
41	4	C	45854	66	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-13, LP-14 AND LP-15
41	4	C	45854	64	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-7, LP-8 AND LP-9
41	4	C	45854	63	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-5, LP-6 AND LP-6A
41	4	C	45854	89	0		17-Jan-92	17-Jan-91	10594	F	AS-BUILT PROGRAM BUILDING, ELECT; BASEMENT, FIRE PROTECTION IMPROVEMENTS & TELEPHC
41	4	C	45854	88	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN, WEST ICE HOUSE SECOND FLOOR
41	4	C	45854	87	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN EAST ICE HOUSE WING
41	4	C	45854	86	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN EAST OFFICE WING
41	4	C	45854	9	0		17-Jan-92	17-Jan-91	10594	G	AS-BUILT PROGRAM BUILDING, GEN; GENERAL LEGEND SYMBOLS
41	4	C	45854	8	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, BUILDING TITLE SHEET
41	4	C	45854	43	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; FIRST FLOOR PLAN GAS PIPING PLAN
41	4	C	45854	41	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; FIRST FLOOR PLAN AIR PIPING PLAN
41	4	C	45854	39	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HOT & COLD WATER ISOMETRIC
41	4	C	45854	36	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; FIRST FLOOR PLAN HOT WATER PIPING
41	4	C	45854	33	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; ISOMETRIC STORM DRAIN & SANITARY SEWER
41	4	C	45854	31	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; SECOND FLOOR PLAN SANITARY SEWER/DRAIN PIPING
41	4	C	45854	30	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; FIRST FLOOR PLAN SANITARY SEWER/DRAIN PIPING
41	4	C	45854	5	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, BUILDING TITLE SHEET

41	4	C	45854	3	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, BUILDING TITLE SHEET
41	4	C	45854	2	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, TABLE OF CONTENTS
41	4	C	45854	1	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, TABLE OF CONTENTS TO DRAWING INDEXES
41	4	C	45854	24	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC - MECHANCIAL ROOM LAYOUTS
41	4	C	45854	23	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC PLAN-NORTH UTILITY TUNNEL
41	4	C	45854	22	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC 2ND FLOOR PLAN-EAST ICE HOUSE WING
41	4	C	45854	21	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC 2ND FLOOR PLAN-WEST ICE HOUSE WING
41	4	C	45854	18	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC SECOND FLOOR PLAN, WEST OFFICE WING
41	4	C	45854	16	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC FRIST FLOOR PLAN, WEST OFFICE WING
41	4	C	45854	14	0		17-Jan-92	17-Jan-91	10594	A	AS-BUILT PROGRAM BUILDING, ARCH; FIRST FLOOR PLAN
41	4	C	45854	13	0		17-Jan-92	17-Jan-91	10594	A	AS-BUILT PROGRAM BUILDING, ARCH; BASEMENT FLOOR PLAN
41	4	C	45854	12	0		17-Jan-92	17-Jan-91	10594	C	AS-BUILT PROGRAM BUILDING, CIVIL; UTILITY PLAN
41	4	C	45854	10	0		17-Jan-92	17-Jan-91	10594	C	AS-BUILT PROGRAM BUILDING, CIVIL; STRUCTURE LOCATION PLAN
41	4	C	45854	53	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; MASTER ONE LINE DIAGRAM, PP-A & PP-9
41	4	C	45854	58	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES PP-3, PP-4, LP-28 & LP-29
41	4	C	45854	70	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-13A AND LP-25
41	4	C	45854	90	0		17-Jan-92	17-Jan-91	10594	F	AS-BUILT PROGRAM BUILDING, ELECT; FIRST FLOOR, FIRE PROTECTION IMPROVEMENTS AND TEL
41	4	C	45854	25	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; ROOF PLAN
41	4	C	45854	65	0		07-May-02	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES LP-10, LP-11 AND LP-12
41	4	C	45854	56	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES PP-D AND PP-E
41	4	C	45854	34	0		17-Jan-92	17-Jan-91	10594	AC	AS-BUILT PROGRAM BUILDING, MECH; ISOMETRIC VENT
41	4	C	45854	91	0		17-Jan-92	17-Jan-91	10594	F	AS-BUILT PROGRAM BUILDING, ELECT; SECOND FLOOR, FIRE PROTECTION IMPROVEMENTS AND T
41	4	C	45854	32	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; ROOF DRAIN PLAN
41	4	C	45854	27	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; FIRST FLOOR PLAN COMPOSITE OF PIPING
41	4	C	45854	19	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC SECOND FLOOR PLAN, EAST OFFICE WING
41	4	C	45854	4	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, BUILDING TITLE SHEET
41	4	C	45854	7	0		17-Jan-92	17-Jan-91	10594	T	AS-BUILT PROGRAM BUILDING, BUILDING TITLE SHEET
41	4	C	45854	40	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; BASEMENT FLOOR PLAN AIR PIPING
41	4	C	45854	35	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; BASEMENT FLOOR PLAN HOT WATER PIPING
41	4	C	45854	20	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC FLOOR PLAN-ROOM 127/MECH. ROOM AREA
41	4	C	45854	77	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; LIGHTING & ELECTRICAL EQUIP. PLAN EAST OFFICE WING
41	4	C	45854	17	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; HVAC FRIST FLOOR PLAN, EAST OFFICE WING
41	4	C	45854	15	0		17-Jan-92	17-Jan-91	10594	A	AS-BUILT PROGRAM BUILDING, ARCH; SECOND FLOOR PLAN
41	4	C	45854	11	0		17-Jan-92	17-Jan-91	10594	C	AS-BUILT PROGRAM BUILDING, CIVIL; SITE PLAN
41	4	C	45854	78	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; LIGHTING & ELECTRICAL EQUIP. PLAN EAST ICE HOUSE WIN
41	4	C	45854	60	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; PANEL SCHEDULES PP-8, PP-9 AND PP-10
41	4	C	45854	52	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELEC; MASTER ONE LINE DIAGRAM PP-D, MCC-A AND MISC. PANEL
41	4	C	45854	47	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; ROOM LAYOUTS COOLING WATER
41	4	C	45854	42	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; BASEMENT FLOOR GAS PIPING PLAN
41	4	C	45854	37	0		17-Jan-92	17-Jan-91	10594	M	AS-BUILT PROGRAM BUILDING, MECH; BASEMENT FLOOR PLAN COLD WATER PIPING
41	4	C	45854	85	0		17-Jan-92	17-Jan-91	10594	E	AS-BUILT PROGRAM BUILDING, ELECT; POWER PLAN WEST OFFICE WING

41	4	PL	3735	2	0		09-Feb-98	06-Apr-78	5783	C	NEW TRITIUM FACILITY BLDG. W-4 TA-41, W-SITE, PLOT PLAN, LOCATION PLAN
41	4	PL	3735	1	0		05-Jan-78		5783	T	NEW TRITIUM FACILITY BLDG. W-4 TA-41, TITLE SHEET, INDEX, SITE LOCATION
41	4	PL	3735	2	0		05-Jan-78		5783	C	NEW TRITIUM FACILITY, W-SITE PLOT PLAN
41	4	PL	3735	3	0		05-Jan-78		5783	A	NEW TRITUM FACILITY, PLANS FIRST AND SECOND FLOORS SECT. 'A-A'
41	4	PL	3735	4	0		05-Jan-78		5783	A	NEW TRITIUM FACILITY, PROCESS EQUIPMENT
41	4	PL	3735	1	0		09-Feb-98	06-Apr-78	5783	T	NEW TRITIUM FACILITY BLDG. W-4 TA-41, INDEX TO DRAWINGS
41	4	PL	3735	3	0		09-Feb-98	06-Apr-78	5783	A	NEW TRITIUM FACILITY BLDG., PLANS FIRST AND SECOND FLOORS, SECTION A-A
41	4	PL	3735	5	0		09-Feb-98	06-Apr-78	5783	M	NEW TRITIUM FACILITY BLDG., AIR PATTERN SCHEMATIC, RECOVERY ROOM
41	4	PL	3735	6	0		05-Jan-78		5783	M	NEW TRITIUM FACILITY, FLOW SCHEMATIC
41	4	PL	3735	7	0		08-Jan-78		5783	M	NEW TRITIUM FACILITY, FLOW SCHEMATIC
41	4	R	1960	1	2		11-Jan-63		0	F	FIRE ALARM EQUIPMENT, BLDG. W-4, FIRST FLOOR PLAN
41	4	R	1961	2	0		11-Jan-63		0	F	FIRE ALARM EQUIPMENT, BLDG. W-4, SECOND FLOOR PLAN
41	4	R	3139	1	3		06-Mar-89	02-Feb-90	7556	A	LABORATORY BUILDING, RECORD DRAWING FLOOR PLAN BASEMENT FLOOR PLAN
41	4	R	3140	2	6		06-Mar-89	02-Feb-90	7556	A	LABORATORY BUILDING, RECORD DRAWING FLOOR PLAN FIRST FLOOR PLAN
41	4	R	3141	3	9		23-Apr-90	06-Jul-84	7556	A	LABORATORY BUILDING, RECORD DRAWING FLOOR PLAN SECOND FLOOR PLAN
41	4	R	3836	1	0		28-Sep-66	29-Sep-83	3546	A	EQUIPMENT SURVEILLANCE SYSTEMS, FIRST FLOOR PLAN
41	4	R	4392	22	0		25-Aug-72	25-Aug-72	4861	F	FMEA FIRE PROTECTION SURVEY
41	4	SK	1525	1	1		05-Dec-00	29-Jul-53	1281	M	REVISION OF COMBUSTION AIR SUPPLY, RM. A-7, ELEVATION AND DETAILS, LOCATION PLAN
41	4	SK	1603	1	0			02-Jul-53	7577	A	PARTITION MODIFICATIONS ROOMS 224 & 226 ARCH PLAN & DETAILS
41	4	SK	2091	1	0		03-Nov-97	10-Mar-52	1088	C	PARKING LOT ALTERATIONS, W-SITE
41	4	SK	2610	1	0		10-Sep-97	17-Sep-54	1641	A	OFFICE AREA MODIFICATIONS, PLAN & DETAILS, BLDG. W-4
41	4	SK	7267	1	0		03-Mar-98	21-Mar-85	8067	A	SECURITY ENHANCEMENTS STRUCTURE HARDENING, ARCH, DOOR SCHEDULE/SPECS.
41	4	SK	7317	1	0		16-Aug-01	14-Jan-89		F	SPRINKLER MODIFICATIONS
41	4	SK	7629	1	0		16-Aug-01	26-Oct-88		F	VAULT SPRINKLER MODIFICATIONS
41	4	SK	7648	1	1		16-Oct-89		9567	UN	SAFEGUARDS & SECURITY UPGRADE, PHASE II; VAULT UPGRADE RM. 237, BLDG. W-4, SRUCT
41	4	SK	7648	2	0		08-Feb-89		9567	S	STRUCTURAL DETAILS
41	4	SK	7648	4	0		08-Feb-89		9567	S	STRUCTURAL DETAILS
41	4	SK	7648	5	0		08-Feb-89		9567	S	STRUCTURAL DETAILS
41	4	SK	7648	3	0		08-Feb-89		9567	S	STRUCTURAL DETAILS
41	4	SK	7657	1	0		08-Mar-89		7053	F	SPRINKLER MODS., BLDG. 4, ROOM 236
41	4	SK	7893	1	0		20-Aug-94		14220	E	SUBSTATION REPLACEMENT, ELEC; SUBSTATION TA-41-4 'SUS-A' ONE LINE DIAGRAM
41	4	SK	7893	2	0		20-Aug-94		14220	E	ELEC; SUBSTATION TA-41-4 'SUS-A' ONE LINE DIAGRAM
41	4	SK	7893	3	0		20-Aug-94		14220	E	ELEC; SUBSTATION TA-41-4 'SUS-A' DEMOLITION PLAN
41	4	SK	7920	1	0		01-May-97	20-Aug-93	14220	T	TITLE SHEET. SUBSTATION REPLACEMENT.
41	4	SK	7920	2	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ELECTRICAL NOTES + SPECIAL NOTES. SUBSTATION REPLACEMENT.
41	4	SK	7920	3	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ONE-LINE DIAGRAM. SUBSTATION REPLACEMENT.
41	4	SK	7920	4	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ONE-LINE DIAGRAM. SUBSTATION REPLACEMENT.
41	4	SK	7920	5	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ONE-LINE DIAGRAM. SUBSTATION REPLACEMENT.
41	4	SK	7920	6	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ONE-LINE DIAGRAM. SUBSTATION REPLACEMENT.
41	4	SK	7920	7	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ONE-LINE DIAGRAM. SUBSTATION REPLACEMENT.
41	4	SK	7920	8	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A ONE-LINE DIAGRAM. SUBSTATION REPLACEMENT.

41	4	SK	7920	9	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A DEMOLITION PLAN AND ELEVATION. SUBSTATION REPLACEMENT.
41	4	SK	7920	10	0		01-May-97	20-Aug-93	14220	E	ELEC. SUS-A INSTALLATION PLAN AND NAMEPLATE SCHEDULE. SUBSTATION REPLACEMENT.
41	4	SK	7920	11	0		01-May-97	20-Aug-93	14220	E	ELEC. FIRST FLOOR PLAN EQUIPMENT LOCATION. SUBSTATION REPLACEMENT.
41	4	SK	7920	12	0		01-May-97	20-Aug-93	14220	E	ELEC. SECOND FLOOR PLAN EQUIPMENT LOCATION. SUBSTATION REPLACEMENT.
41	4	SK	7920	13	0		01-May-97	20-Aug-93	14220	E	SUBSTATION TA-18-142 'SUS-A' CIRCUIT BREAKER SETTINGS, ELEVATION & GROUNDING.
41	4	SK	52208	1	0		16-Aug-01	24-May-99	019387	F	TA-41-4 MODIFICATIONS FIRE PROTECTION

REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
41	6	AB	804	1	0		29-JUL-97	10-JAN-97	16523	A	ARCH. RECORD FLOOR PLAN. COVERED PASSAGEWAY.
41	6	C	15141	30	2		08-JUN-53		442	UN	PLANS, ELEVATIONS & DETAILS BLDG. W-6
41	6	C	26292	1	0		27-FEB-63		2871	A	PASSAGEWAY ALTERATIONS, BLDG. W-6, ARCHITECTURAL - DETAILS
41	6	C	44544	6	0		15-AUG-85	23-JUL-85	8067	E	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, ELEC., SCOPE OF WORK, NOTES, NAMEPLATE SCHEDULE
41	6	C	44544	7	1		15-AUG-85	23-JUL-85	8067	E	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, ELEC., SITE PLAN
41	6	C	44544	10	1		15-AUG-85	23-JUL-85	8067	E	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, ELEC., BILL OF MATERIALS
41	6	C	44544	3	0		15-AUG-85	23-JUL-85	8067	M	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, MECH., NOTES & PLAN
41	6	C	44544	5	1		15-AUG-85	23-JUL-85	8067	S	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, STRUCT., ROOF FRAMING PLAN, SECTIONS, & DETAILS
41	6	C	44544	8	1		15-AUG-85	23-JUL-85	8067	E	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, ELEC., MONITORING GUARD STATION POWER LAYOUTS
41	6	C	44544	2	1		15-AUG-85	23-JUL-85	8067	G	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, GEN., SUBMITTALS
41	6	C	44544	4	1		15-AUG-85	23-JUL-85	8067	S	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, STRUCT., FLOOR PLANS, ELEVATIONS, & DETAILS
41	6	C	44544	1	1		15-AUG-85	23-JUL-85	8067	T	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, TITLE SHEET, INDEX TO DRAWINGS, LOCATION PLAN
41	6	C	44544	9	1		15-AUG-85	23-JUL-85	8067	E	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, ELEC., PANEL SCHEDULES
41	6	C	44544	7	1		15-AUG-85	23-JUL-85	8067	C	SAFEGUARDS & SECURITY UPGRADES STRUCTURE HARDENING, MONITORING STATION, ELEC., SITE PLAN
41	6	R	3143	1	3		08-OCT-64	06-MAR-84	0	A	FLOOR PLAN, PASSAGEWAY W-6, COVERED PASSAGEWAY

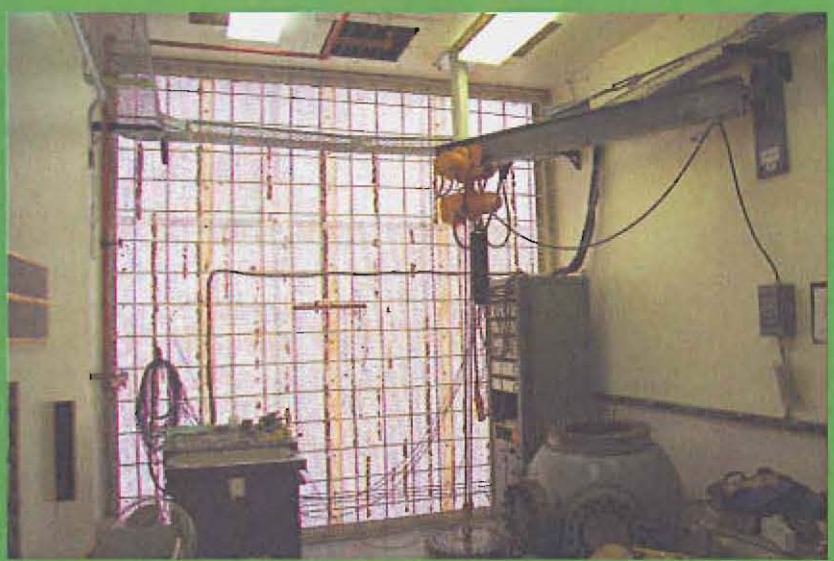
REPORT FOR: DRAWINGS

TA	BLDG	PREFIX	DRAWNUM	PAGE	REV	DSHEET	LOG_DATE	DOC_DATE	PROJID	DISC	TITLE
41	16	C	15109	1	1		08-JUN-53		0	UN	GUARD STATION, W-16, W-SITE - PLOT PLAN AND DETAILS
41	16	C	15110	2	1		08-JUN-53		0	UN	GUARDHOUSE, PLAN AND DETAILS
41	16	R	3144	1	2		17-JUL-64	06-MAR-84	0	A	FLOOR PLAN, GUARD HOUSE
41	16	R	3664	1	1		27-SEP-66	15-SEP-66	3546	M	EQUIPMENT SURVEILLANCE SYSTEMS, ANNUNCIATOR PANEL
41	16	R	3835	1	1		28-SEP-66	15-SEP-66	3546	M	EQUIPMENT SURVEILLANCE SYSTEMS, ANNUNCIATOR PANEL
41	16	R	3837	1	1		28-SEP-66	15-SEP-66	3546	A	EQUIPMENT SURVEILLANCE SYSTEMS, FLOOR PLAN

LA-UR-04-6492

Historical Context of W Site, Technical Area 41

Volume 2a – Archival Photographs and Index

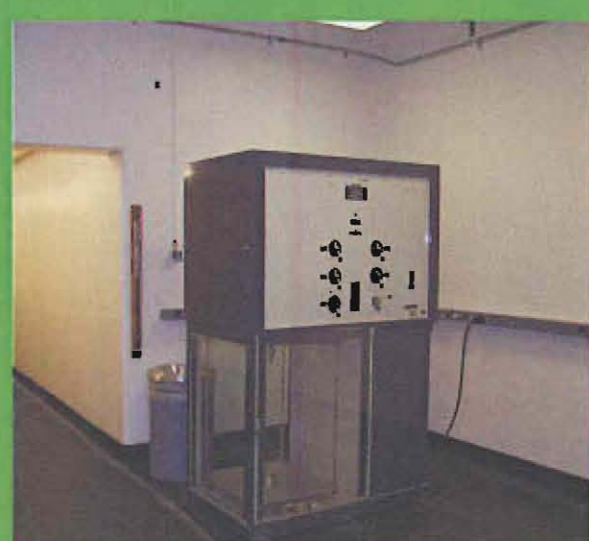


RRES-ECO Heritage Resources and Environmental Policy Compliance Team
Risk Reduction and Environmental Stewardship Division
LOS ALAMOS NATIONAL LABORATORY

LA-UR-04-6492

Historical Context of W Site, Technical Area 41

Volume 2b – Archival Photographs and Index



RRES-ECO Heritage Resources and Environmental Policy Compliance Team
Risk Reduction and Environmental Stewardship Division
LOS ALAMOS NATIONAL LABORATORY

Los Alamos National Laboratory Historic Building Survey
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Technical Area 41 "W Site" or "Weapons Site"
Technical Area 41, Structures (1, 2, 3, 4, 6, 47, and removed properties 16, 30, and 53)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Notes: The Laboratory is divided into different geographic areas called technical areas (TAs) that are designated by numbers. The properties at TA-41 are identified using the current LANL system of placing the "TA" prefix and TA number before each building and structure number, creating a unique property identifier (ie. TA-41-4).

TA-41 was initially built during the early Cold War to support nuclear weapons research and development. The technical area was used for the development of nuclear weapon components, weapons subsystems, and boosting systems, and also for long-term studies on critical weapon components. Two of the most significant facilities at TA-41, the tunnel and main storage vault (TA-41-1) and the "Ice House" (TA-41-4), provided the DOE with facilities for testing, monitoring, assembling, and storing nuclear weapons components. From 1954 to 1973, isotopic analyses of Nevada Test Site samples containing uranium and plutonium were performed at TA-41.

TA-41-1, -2, -3, -4, -6, -16, and -47 were determined eligible for the National Register of Historic Places under Criterion A in correspondence between the New Mexico State Historic Preservation Officer (SHPO) and LASO on May 22, 2002. Four of the properties are individually eligible for the National Register of Historic Places: TA-41-1, -2, -4, and -16. Three support structures (TA-41-3, -6, and -47), although identified with separate LANL property numbers, are physically connected to two of the eligible buildings and, while not individually eligible, are being documented in the same manner as the eligible buildings. Of the properties included in the memorandum of agreement (MOA), TA-41-16 and the office portion of TA-41-4 were eventually demolished. The high bay and rear laboratory portion of TA-41-4 was retained along with the vault (TA-41-1) and an associated guardhouse (TA-41-2). Three attached support structures (air intake TA-41-3, corridor TA-41-6, and exhaust stack TA-41-47) and some of the associated building utilities were also retained. (For additional information see related project documentation: *Decontamination and Decommissioning of Technical Area 41,* LA-UR-02-2663, Cultural Resource Report No. 204, and *Historical Context of W Site, Technical Area 41,* LA-UR-04-6492, Heritage Resources Report No. 231.)

Los Alamos National Laboratory Historic Building Survey
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Technical Area 41 "W Site"
Technical Area 41, Structures (1, 2, 3, 4, 6, 47, 16, 30, and 53)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Mike O'Keefe, Photographer, IM-9, LANL June 24, 2002 through July 9, 2002
RB02-005-001 through RB02-005-074 and RN02-021-001 through RN02-021-024

Ken Towery, Photographer, PM-1, LANL December 17, 2001
RB02-002-001 through RB02-002-0032

Photograph Number	Description
RB02-005-008	View of TA-41, facing northwest. Note south sides and east sides of properties TA-41-30, -4, -47 (stack), -2, -3, -44, -54, and -6 (left to right). Properties TA-41-30, -44 and -54 were removed along with the south portion of TA-41-4.
RB02-005-023	View of TA-41, facing northeast. Note west sides and south sides of TA-41-16 (foreground), -30, -47 (stack), -4, and -53 (left to right). Properties TA-41-16, -30, and -53 were removed.
RB02-005-011	View of TA-41, facing northwest. Note south sides and east sides of TA-41-30, -53, -4, and –47 (left to right). Properties TA-41-30 and TA-41-53 were removed.

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Technical Area 41 "W Site", TA-41-1 (Vault)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

No other photos are allowed in this building because it contains classified material.

Photograph Number	Description
RB02-005-029	TA-41-1, south side, roll-up entrance door, facing north.
RB02-002-008	TA-41-1, south side, roll-up entrance door, facing north.

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Technical Area 41 "W Site", TA-41-2
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Photograph Number	Description
RN02-021-015	TA-41-2, north side and west side (front), facing southeast.
RN02-021-014	TA-41-2, north side, facing south.
RB02-002-004	TA-41-2, east side (back) and north side, facing southwest.
RN02-021-013	TA-41-2, east side (back), facing west.
RB02-002-006	TA-41-2, east side, facing west.
RN02-021-016	TA-41-2, south side and east side (back), facing northwest.
RB02-002-005	TA-41-2, south side and east side (back), facing northwest.
RN02-021-004	TA-41-2, room 200, northwest corner (west and north walls), facing northwest.
RN02-021-002	TA-41-2, room 200, northeast corner (north and east walls), facing northeast.
RN02-021-021	TA-41-2, room 200, southeast corner (east wall), facing south-southeast.
RN02-021-022	TA-41-2, room 200, southeast corner (east and south walls), facing southeast.
RN02-021-024	TA-41-2, room 200, southwest corner (south and west walls), facing southwest.
RN02-021-010	TA-41-2, room 100, battery backup room, facing west.
RN02-021-011	TA-41-2, room 100, battery backup room, facing southwest.
RN02-021-012	TA-41-2, room 100, battery backup room, facing southeast.

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Photograph Number	Description
RN02-021-009	TA-41-2, room 100A, equipment/mechanical room, facing north-northeast.
RN02-021-008	TA-41-2, room 100A, equipment/mechanical room, facing northwest.
RN02-021-007	TA-41-2, room 100A, equipment/mechanical room, facing north-northwest.

Los Alamos National Laboratory Historic Building Survey
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Technical Area 41 "W Site", TA-41-3
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Photograph Number	Description
RN02-021-020	TA-41-3, south and east side of air duct for TA-41-1 (vault), facing north-northwest.

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Technical Area 41 "W Site", TA-41-4 ("Ice House") and associated TA-41-47 (Stack)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

No other photos are allowed in this building because it contains classified material.

Photograph Number	Description
RB02-005-020	TA-41-4, west side (entrance), and south side of south portion of building, facing northeast.
RB02-005-031	TA-41-4, west side (entrance), and south side of south portion of building, facing northeast. Note walkway/corridor, TA-41-29 (at left) connecting this building to TA-41-30 to the left (west).
RB02-005-059	TA-41-4, west side (entrance), and north side of south portion of building, facing southeast.
RB02-005-058	TA-41-4, west side of north, central, and south portions, facing east. Note TA-41-47 (stack) in center.
RB02-005-057	TA-41-4, west side of north portion, facing northeast.
RB02-005-013	TA-41-4, south side and east side of south portion of building, facing northwest.
RB02-005-015	TA-41-4, east side of south portion of building, facing west-northwest.
RB02-002-003	TA-41-4, east and north sides of the south portion of building and east side of central "crossbar" portion of building, facing west.
RB02-005-016	TA-41-4, east side of central "crossbar" portion of building, facing west.
RB02-005-025	TA-41-4, north side of south portion of building and east side of central and north portion of building, facing southwest.

Los Alamos National Laboratory Historic Building Survey
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Photograph Number	Description
RB02-005-026	TA-41-4, north side of south portion of building and east side of central and north portion of building, facing southwest. Note TA-41-6, corridor (at right), connecting building TA-41-4 to the vault, TA-41-1.
RB02-002-002	TA-41-4, east side of north portion of building, facing northwest. Note TA-41-6, corridor (at right), connecting building TA-41-4 to the vault, TA-41-1.
RB02-005-041	TA-41-4, 2nd floor hallway 200, facing east.
RB02-002-016	TA-41-4, 2nd floor hallway 200, bathroom section with glazed ceramic tile, and looking into room 201, facing east.
RB02-005-043	TA-41-4, 2nd floor hallway 200, facing west.
RB02-005-033	TA-41-4, 2nd floor hallway 200, close-up of bathroom section with glazed ceramic tile, facing northwest.
RB02-005-044	TA-41-4, office room complex 201-201A-201G, at eastern end of 2nd floor, facing northeast.
RB02-005-037	TA-41-4, room 201, looking towards offices 201A and 201B, facing east-southeast.
RB02-005-039	TA-41-4, room 201D, office, facing south.
RB02-005-040	TA-41-4, room 201C, office, facing southeast.
RB02-005-053	TA-41-4, room 215, conference room, facing east.
RB02-005-054	TA-41-4, room 215, conference room, facing southwest.
RB02-005-035	TA-41-4, room 218A, office, facing south.
RB02-005-048	TA-41-4, room 221, Group Office, facing southwest.
RB02-005-047	TA-41-4, room 221, Group Office, facing northwest.
RB02-005-046	TA-41-4, room 221, Group Office, facing northeast.
RB02-005-045	TA-41-4, room 221, Group Office, facing east.

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Photograph Number	Description
RB02-005-036	TA-41-4, room 226, office, facing west-southwest.
RB02-005-076	TA-41-4, 2nd floor stairwell, looking down, facing north.
RB02-005-049	TA-41-4, 2nd floor hallway 200 to elevator and entrance into north "Ice House" portion of building, facing north.
RB02-002-028	TA-41-4, 2nd floor hallway 200 and entrance into north "Ice House" portion of building, close-up, facing northwest.
RB02-005-077	TA-41-4, elevator with doors open.
RB02-002-029	TA-41-4, mezzanine 228 in highbay room 127, facing west.
RB02-002-030	TA-41-4, mezzanine 228 in highbay room 127, facing northeast.
RB02-002-031	TA-41-4, mezzanine 228 in highbay room 127, facing east.
RB02-002-014	TA-41-4, rooms 233/235/236/236C (all one space now) (front of photo to rear), facing east-southeast.
RB02-002-015	TA-41-4, rooms 236C/236/235/233 (all one space now) (front of photo to rear), facing west-southwest.
RB02-002-013	TA-41-4, room 236A, hood, facing southeast.
RB02-002-012	TA-41-4, room 237, day vault, facing northeast.
RB02-002-001	TA-41-4, room 240, concrete ceiling, facing northwest.
RB02-002-017	TA-41-4, room 242, source well in floor, facing northeast.
RB02-002-024	TA-41-4, room 242, source well in floor, facing northeast.
RB02-002-032	TA-41-4, room 252, facing southwest. Note fume cabinet.
RB02-002-022	TA-41-4, room 258 (pressure cell #1), facing north-northwest. Note pressure test vessels.

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Photograph Number	Description
RB02-002-020	TA-41-4, room 260 (pressure cell #2), facing north-northeast. Note compressors that run the pressure test vessels.
RB02-002-019	TA-41-4, room 262 (pressure cell #3), facing north-northeast. Note pressure test vessels.
RB02-002-018	TA-41-4, room 256, control panel for pressure tests, facing east.
RB02-002-023	TA-41-4, hallway to room 244 (low-interference count room), facing east.
RB02-002-025	TA-41-4, hallway to room 244 (low-interference count room), wall ladder, facing northeast.
RB02-002-026	TA-41-4, room 244, balance, facing northwest. Note this balance was used to weigh the "Trinity Device."
RB02-002-027	TA-41-4, room 244, balance, facing east.
RB02-005-068	TA-41-4, 1st floor hallway 100A, facing east.
RB02-005-067	TA-41-4, 1st floor hallway 100A, facing west.
RB02-005-055	TA-41-4, 1st floor hallway 100A to elevator and highbay, facing north.
RB02-005-074	TA-41-4, room 103, facing northeast. Note crane rail at ceiling.
RB02-005-071	TA-41-4, room 109, men's restroom, facing southwest. Note inner room (room 111) with showers and black glazed tile used to be a dark room.
RB02-005-072	TA-41-4, room 110, office, facing south.
RB02-005-070	TA-41-4, room 112, office, facing south-southwest.
RB02-005-056	TA-41-4, room 122, office, facing northeast.
RB02-005-069	TA-41-4, room 122, office, facing west.
RB02-005-066	TA-41-4, 1st floor stairwell and room 105, facing north.

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Technical Area 41 "W Site", TA-41-6
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Photograph Number	Description
RB02-005-028	TA-41-6, south side of corridor connecting building TA-41-4 to vault TA-41-1, facing northwest.
RB02-002-007	TA-41-6, south side of corridor connecting building TA-41-4 to vault TA-41-1, facing northwest.
RB02-002-011	TA-41-6, entrance into corridor from building TA-41-4, room 245, facing east.
RB02-002-009	TA-41-6, corridor connecting building TA-41-4 to vault TA-41-1, facing southwest.
RB02-002-010	TA-41-6, corridor and entrance into vault TA-41-1, facing northeast.

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Technical Area 41 "W Site", TA-41-16 (Removed Property)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Photograph Number	Description
RB02-005-004	TA-41-16, south side (front) and east side, facing northwest.
RB02-005-003	TA-41-16, north side (back) and west side, facing southeast.
RB02-005-065	TA-41-16, room 101, facing north.

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Technical Area 41 "W Site", TA-41-30 and TA-41-53 (Removed Properties, Not Eligible) and TA-41-7, -8, -9,, and –56 (Exempt Properties)
Los Alamos National Laboratory (LANL)
Los Alamos
Los Alamos County
New Mexico

Photos of these two buildings were taken to help depict what the entire site (TA-41) looked like at the time of review. Office building TA-41-30 and guard station TA-41-53 were added in 1959 and 1986 respectively. These buildings can be seen in some of the overall photos of the site that are listed at the beginning of this photo index.

Photograph Number	Description
RB02-005-017	TA-41-30, west side and south side (entrance), facing northeast.
RB02-005-018	TA-41-30, south side (entrance) and east side, facing northwest. Note walkway/corridor, TA-41-29 (at right) connecting this building to TA-41-4 to the far right (east).
RB02-005-060	TA-41-30, east side and north side (back), facing southwest.
RB02-005-019	TA-41-29 (connecting walkway), south side (front), facing north. Note TA-41-30 on the left and TA-41-4 on the right.
RB02-005-061	TA-41-29 (connecting walkway), north side (back), facing south. Note TA-41-4 on the left and TA-41-30 on the right.
RB02-005-062	TA-41-53, west side (right side of photo) and TA-41-30 south side (front), facing east.
RB02-005-063	TA-41-53, south side (front); TA-41-30, south side (front) (at left rear); TA-41-29, connecting walkway, south side (front) (at central rear); and TA-41-4, west side and south side (front) (at right rear); facing north-northeast. Note TA-41-47 (stack) in rear.
RB02-005-006	TA-41-7, -8, -9, and -56, (exempt properties), facing north. TA-41-7 is a sanitary sewer chlorinator building, TA-41-8 is a sanitary sewer contact chamber, TA-41-9 is a sanitary sewer drying bed, and TA-41-56 is a sanitary sewer lift station.