

LA-UR-02-2663

**Decontamination and Decommissioning
of Technical Area 41**

Historic Building Survey Report No. 204

Los Alamos National Laboratory

**April 12, 2002
Survey No. 887**

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

prepared by

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RRES-ECO Cultural Resources Management Team
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LOS ALAMOS NATIONAL LABORATORY

Introduction

The following information has been prepared as part of a notification of potential adverse effect to historic Los Alamos National Laboratory (LANL) properties located on Department of Energy (DOE) land at Technical Area (TA) 41. 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 1993:1-3). 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 (Map 1).

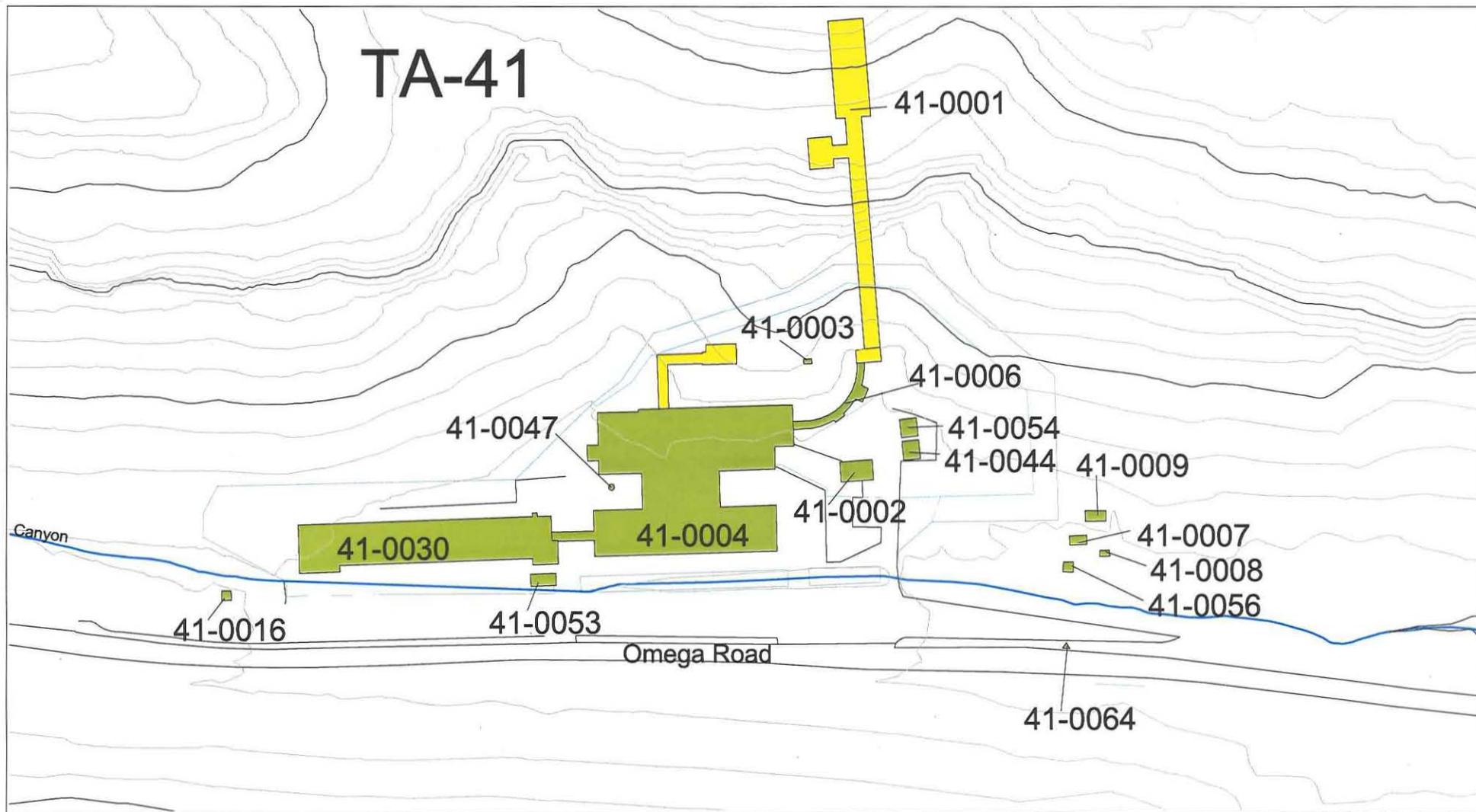
The proposed decontamination and decommissioning (D&D) action (detailed below) stems from an increased risk of severe flooding in the aftermath of the Cerro Grande fire and will result in the demolition, modification, or abandonment of all properties at TA-41: TA-41-1, -2, -3, -4, -6, -7, -8, -9, -16, -30, -44, -47, -53, -54, -56, and -64. The proposed D&D activities will adversely affect the attributes that make four of the properties 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, will be treated in the same manner as the eligible buildings. TA-41-30 and TA-41-53 are not considered eligible for the National Register due to their lack of historical significance. The remaining properties, TA-41-7, -8, -9, -44, -54, -56, and -64, are minor support structures or temporary modular buildings and are exempt from review under the terms of DOE's programmatic agreement with the New Mexico State Historic Preservation Office concerning the management of historic properties at LANL (MOU DE-GM32-00AL77152).

This report is intended to provide background information necessary to initiate the Section 106 consultation process; additional documentation will follow when a treatment plan is developed and final mitigation measures are determined. This report contains a description of the proposed action, historical background information, property descriptions, building integrity information, and recommendations for National Register of Historic Places eligibility. Maps are contained in Appendix A, and photographs and building drawings are contained in Appendix B. LANL Historic Building Survey Forms for the two ineligible buildings, TA-41-30 and TA-41-53, are contained in Appendix C.

The SHPO is requested to concur with the eligibility determinations contained in this report and to concur that the proposed decontamination and decommissioning action has the potential to adversely affect all National Register-eligible buildings at TA-41.

Project Description

The operations at TA-41 are being moved to TA-16 in a planned consolidation of LANL's Engineering Sciences and Applications (ESA) Division activities. As a result of this consolidation, the buildings at TA-41 will become excess LANL property and are currently scheduled for decontamination and decommissioning. Furthermore, several properties at TA-41 are being considered for removal because severe flooding in Los Alamos Canyon could cause



Guaje Mountain Quad

**Los Alamos
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RRES-ECO (Ecology Group)*

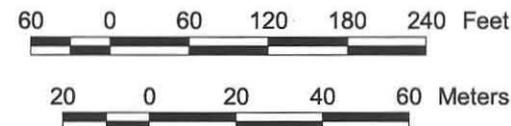
TA-41



Map 1

- 20 Foot Contours
- 100 Foot Contours
- Drainage
- Roads
- Road dirt
- Park/pave
- Park/dirt
- In fence
- Sec fence
- Structures
- Structures

1:1750



catastrophic damage to buildings located within the new flood zone established after the May 2000 Cerro Grande fire. This action is in accordance with LANL's responsibility for "cleaning up inactive sites and facilities so that no unacceptable risk to the public or environment remains" (U.S. Department of Energy 1994). The risk of flooding at TA-41 has increased dramatically as a result of the fire and projected runoff in the canyon during a 100-year storm event is predicted to be in excess of 2180 cubic feet per second. These values are approximately four times the flows expected for a 100-year storm before the fire.

Due to the heightened risk of flooding, buildings TA-41-16, TA-41-30, and TA-41-53 will be demolished during the proposed decommissioning project, and a portion of building TA-41-4 will also be removed. Two storage sheds (TA-41-44 and TA-41-54) and some of the utilities structures may also be removed. Utilities located at TA-41 are associated with the sanitary sewer system and include the chlorinator building (TA-41-7), a contact chamber (TA-41-8), drying beds (TA-41-9), and a lift station (TA-41-56). A meteorological tower (TA-41-64) is also located at TA-41. As stated above, these minor support properties are exempt from review.

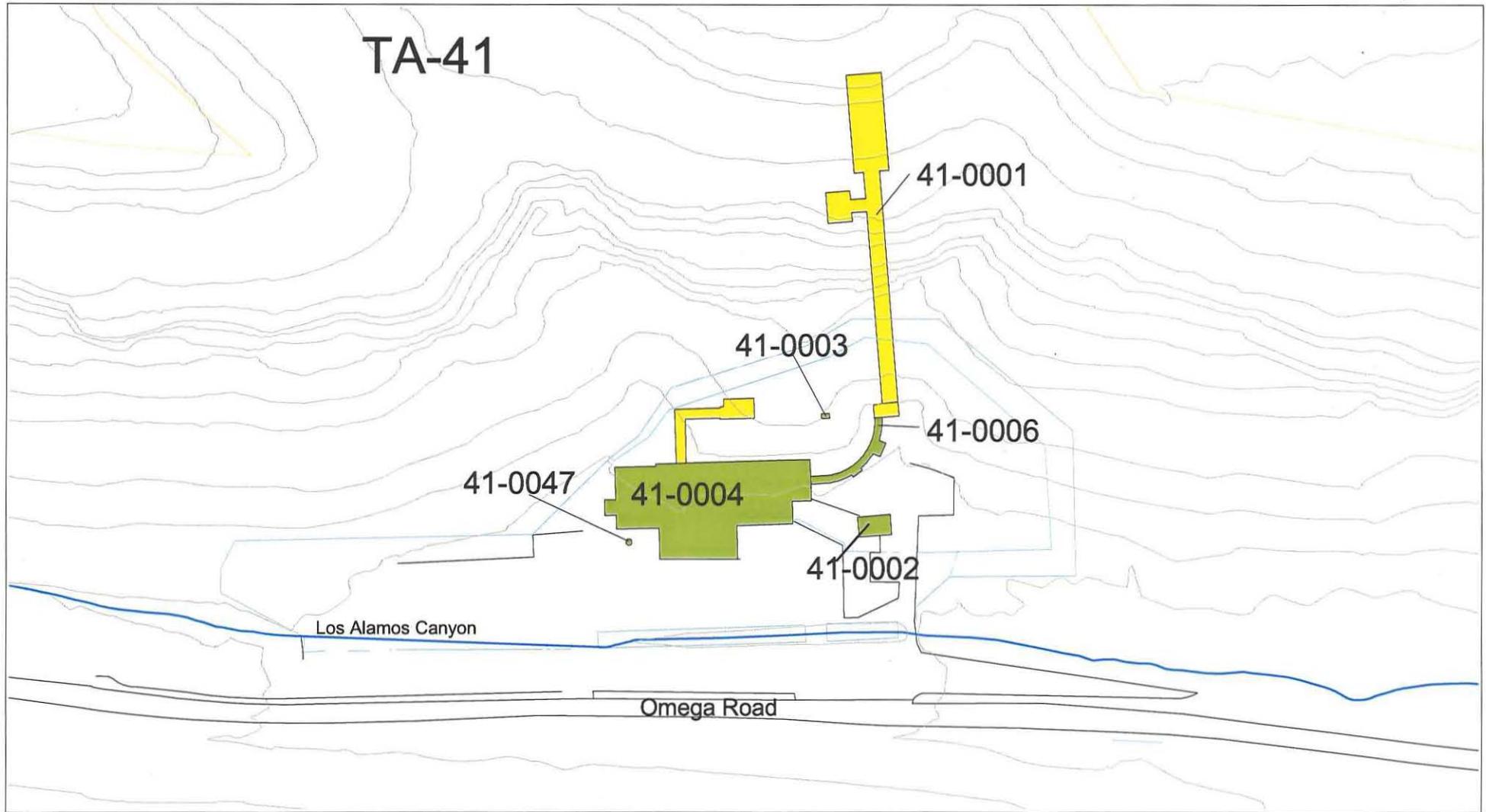
Three Cold War-era properties at TA-41 are located further away from the potential flood zone and will not be demolished. These facilities are historically significant and are slated for preservation and future reuse. The high bay and rear laboratory portion of TA-41-4 will be retained along with the vault, TA-41-1, and an associated guardhouse, TA-41-2. Attached support structures (air intake TA-41-3, corridor TA-41-6, and exhaust stack TA-41-47) and associated building utilities will also be retained (Map 2).

In February 2002, a historic building survey was conducted by Ken Towery, Ares Corporation; John Ronquillo, Sigma Science Inc.; and John Isaacson, and Kari Garcia, Risk Reduction and Environmental Stewardship Division, Ecology Group (RRES-ECO), LANL. The building survey was accomplished by first conducting a field visit to TA-41. Records research at LANL was also carried out, photographs were taken, and current drawings were compiled for the buildings (Appendix B). LANL Historic Building Survey Forms were completed for the two ineligible buildings, TA-41-30 and TA-41-53 (Appendix C).

Historical Background

TA-41 (General Site Information)

TA-41 was initially built during the early Cold War to support nuclear weapon research and development. The technical area was used for the development of nuclear weapon components, weapons subsystems, and boosting systems, and for long-term studies on critical weapon components (LANL 1993:3-10). Two of the most significant facilities at TA-41, the 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 weapon components. From 1954 to 1973, isotopic analyses of Nevada Test Site 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 1993:3-11). 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



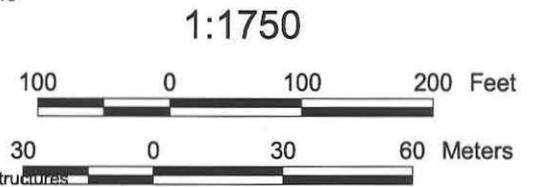
Guaje Mountain Quad

Los Alamos National Laboratory
Cultural Resources Management Team
RRES-ECO Ecology Group

TA-41 After Completion of D&D Activities



- 20 Foot Contours
- Techarea
- Drainage
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Infence
- Secfence
- Underground Structures
- Structures



Map 2

pressure. Other non-weapon pressure testing and leak testing were also done 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).

Property Descriptions

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

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 1993:3-10). 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 section 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

TA-41-2

TA-41-2 was constructed during 1948 to 1949. It is a guard station that was used to support the extensive security protocols in effect at TA-41. This structure 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 any objects such as satchel charges from being placed on the roof—the slope is such that objects will slide off.

*TA-41-3 (see TA-41-1)**TA-41-4*

TA-41-4, "the Ice House," was built between 1950 and 1951. It was named after the Los Alamos Ranch School's icehouse, 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 area referred to as the "Annex". It 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.

*TA-41-6 (see TA-41-4)**TA-41-16*

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 ft² 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.

TA-41-30

TA-41-30 is a large, three-story office building that housed the staff working at TA-41. Also known as the Engineering and Laboratory Building, TA-41-30 was designed by the end of 1957 and construction was completed in August 1959. The architectural and engineering (A/E) firm of Davis, Foster, and Thorpe produced the construction documents (specifications and drawings).

TA-41-30 occupies approximately 22,730 ft² of space (gross). The partial basement on the east end of the building consists of 3,355 ft² of mechanical and storage space. The first floor or ground floor covers 10,650 ft², consisting of vault, office, laboratory, conference, and high bay areas. The second floor consists of 8,725 ft² of office and laboratory areas and provides access to the lower high bay floor. The building is long and narrow (designed to fit the constraints of the site) and is approximately 41 ft wide and 252 ft long, including the 40 ft by 48 ft wide high bay area.

The architectural style of the building is standard light industrial, which consists of elements that categorize the Modern style of design. This style is described as “form follows function,” and is typified by the designs of the architect Mies van der Rohe. Exposed structure, flat planes, and few features exemplify the Modern style. Construction materials are often left unpainted in order to expose natural color and texture.

TA-41-30 consists of three levels of exposed, unpainted cast-in-place, reinforced structural concrete, which provide the structural support and form of the building. Panel openings between the concrete posts and beams are in-filled with concrete masonry units (CMU) and aluminum framed awning and fixed style glazing. The roof frame is also cast-in-place concrete beam and flat slab. The original roofing material was built up asphalt and gravel, usually consisting of three layers of asphalt impregnated paper, hot tar, and a gravel protective surface. The high bay area is located on the west end of the building and is approximately 30 ft high. The high bay is constructed of steel post and “I” beam with channel sections of beams, perlins, and girts. The structure is robust, supporting an electrified bridge crane; no deterioration of the structural concrete is evident. The exterior of the high bay consists of cement and asbestos type panels with aluminum battens and flashing. Appurtenant exterior elements on the building include a masonry brick chimney on the north elevation coming from the basement mechanical area, an elevator penthouse, and laboratory-type, roof exhaust fans. This building is connected to adjoining building TA-41-4 by way of an elevated cast-in-place walk way. The subsequent addition of the guard station, TA-41-53, is evident on the south elevation. Other additions include a portable canopy (added to the basement entrance for weather protection) and numerous window air conditioning units. The *in situ* condition of the building is very similar to its original condition and appearance.

TA-41-30 occupies a unique site within the narrow walls of Los Alamos Canyon. The site slopes gently from west to east, exposing the basement on the east end of the building. Naturally occurring run off water has been channelized and covered by a concrete culvert that maintains runoff water away from the building. The channel creates an architectural element, which separates the building from the parking area on the south.

The original A/E firm of Davis, Foster and Thorpe of El Paso, Texas survived as Foster, Henry, Henry, and Thorpe, and as of this date is known as Bill Thorpe TZA, Structural Engineers in El Paso, Texas.

TA-41-47 (see TA-41-4)

TA-41-53

This guard station was built in the 1986 and provided secure access to buildings TA-41-4 and TA-41-30. TA-41-53, located adjacent to TA-41-30, was a site design project accomplished by the Zia/Pan Am World Services Company.

TA-41-53 is approximately 12 ft by 24 ft in size with a height of 9 ft, occupying 310 ft² (gross). A steel framed canopy connects and provides cover between buildings 41-53 and 41-30. The

architectural style is non-identifiable, but is consistent with area buildings and can be classified as industrial.

The guard station is extremely robust and secure, typifying the purpose and unique mission of TA-41. The exterior is ½-inch steel plate with welded connections. Openings for windows and gun ports (located below the window openings) are present. All connections and penetrations into the building are welded and secure, and the door hinges are welded in place. The overall impression is that of an impenetrable, secure facility. The glass is bullet proof and appears to be approximately 1 inch thick. The roof is steel plate with steel framing members visible along the 2-inch overhang, which provides sun and weather protection to the sides of the structure. The building sits on a concrete foundation, and the stem wall is visible up to 8 inches above the surrounding concrete and asphalt. The floor plan consists of two rooms; one for access by user-personnel and another room, behind a glass window, for use by the security force. The interior of the building may have a wood frame onto which gypsum board wall material has been attached. Hardened openings for ventilation and air conditioning vents are evident on the exterior of the building.

National Register Eligibility Recommendations

Based on the information gathered during this building survey, TA-41-1, TA-41-2, TA-41-4, and TA-41-16 are eligible for nomination to the National Register of Historic Places under Criterion A. These buildings are associated with significant Cold War weapons research and development, possess a high level of integrity, and are all at least 50 years old. The four buildings and associated support structures TA-41-3, TA-41-6, and TA-41-47 retain the key elements of original location, setting, association, feeling, and interior and exterior design. The main period of significance for these buildings covers the years between 1948 and 1992. The activities conducted in these buildings directly contributed to Cold War weapons research and development at Los Alamos—all of the main buildings at TA-41 supported the testing, monitoring, assembling, and storing of nuclear weapon components. Additionally, the TA-41 facility supported all of the above- and below-ground nuclear tests in which Los Alamos played a role since the late 1940s.

Two buildings, TA-41-30 and TA-41-53, are not considered eligible for the National Register. TA-41-30 is an office building built in 1959. TA-41-53 is a guard station built in 1986. Both buildings played support roles in the history of TA-41, serving administrative and security functions respectively. However, neither TA-41-30 nor TA-41-53 is fifty years old. Furthermore, neither meets the criteria requirements under Criteria Consideration G, “exceptional historical significance.”

The SHPO is requested to concur with the eligibility determinations contained in this report and to concur that the proposed decontamination and decommissioning action has the potential to adversely affect the four National Register-eligible buildings at TA-41: TA-41-1, -2, -4, and -16.

As a result of this historic building survey, this project complies with the National Historic Preservation Act of 1966 (as amended).

References Cited

Larson, Richard.

2002 Personal communication via email. "Re: another question about TA-41," Larson to K. Garcia, 4/22/02, on file at RRES-ECO, Ecology Group, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL)

1993 *RFI Work Plan for Operable Unit 1098: Environmental Restoration Program*, LA-UR-92-3825, Los Alamos National Laboratory, Los Alamos, New Mexico.

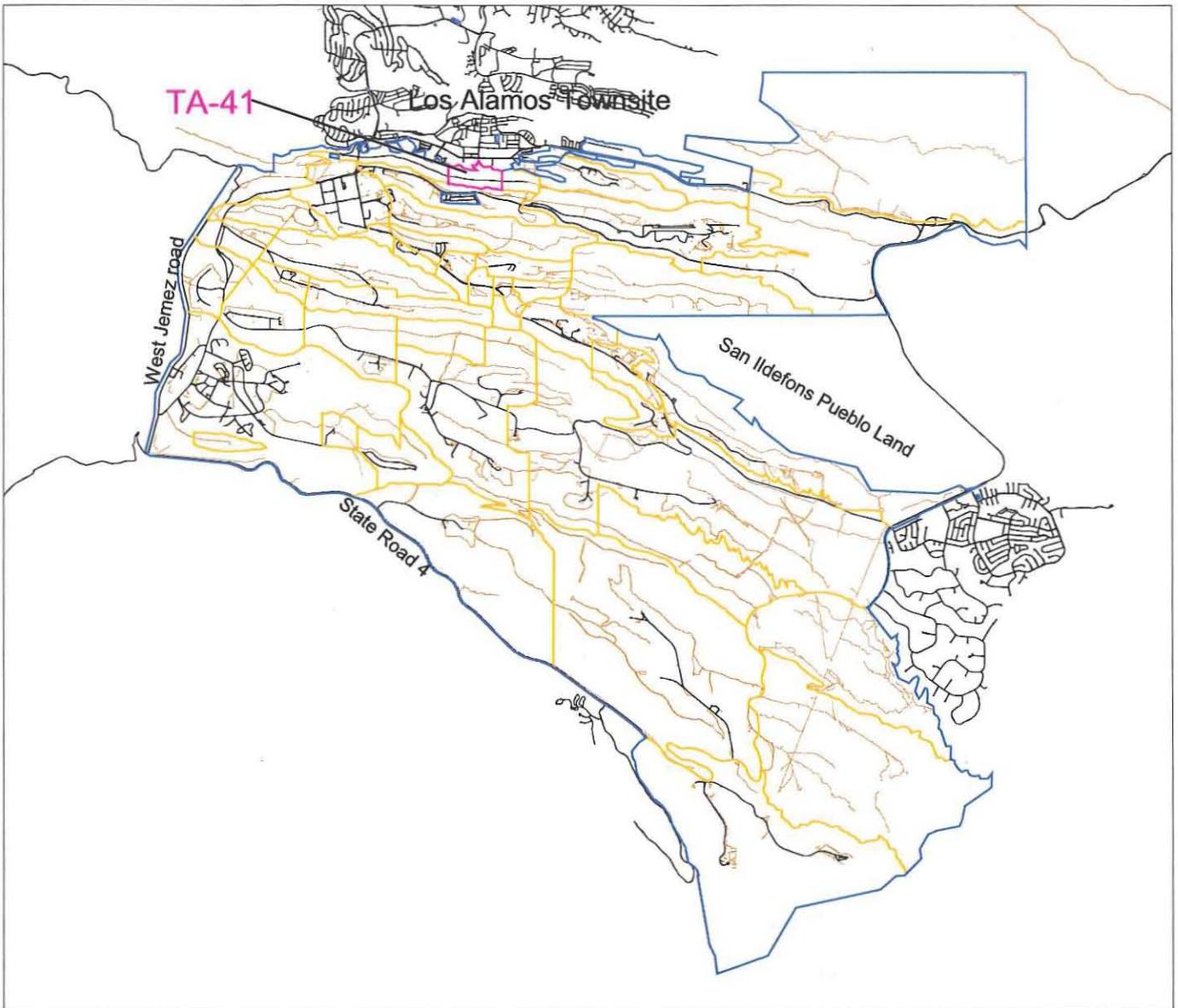
Los Alamos Scientific Laboratory (LASL)

1964 *The Atom*. Volume 1, Number 11. Los Alamos Scientific Laboratory, Los Alamos, New Mexico, November 1964.

U.S. Department of Energy

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

Appendix A
Maps

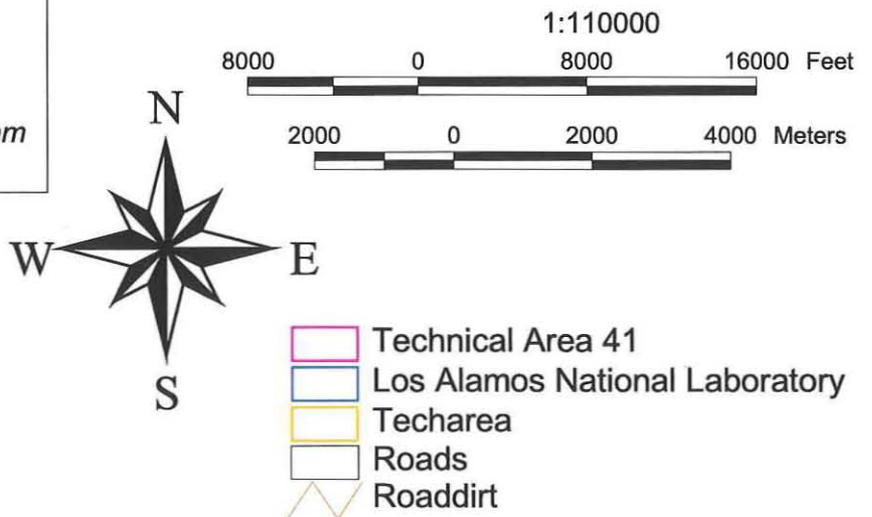


**Los Alamos
National Laboratory**

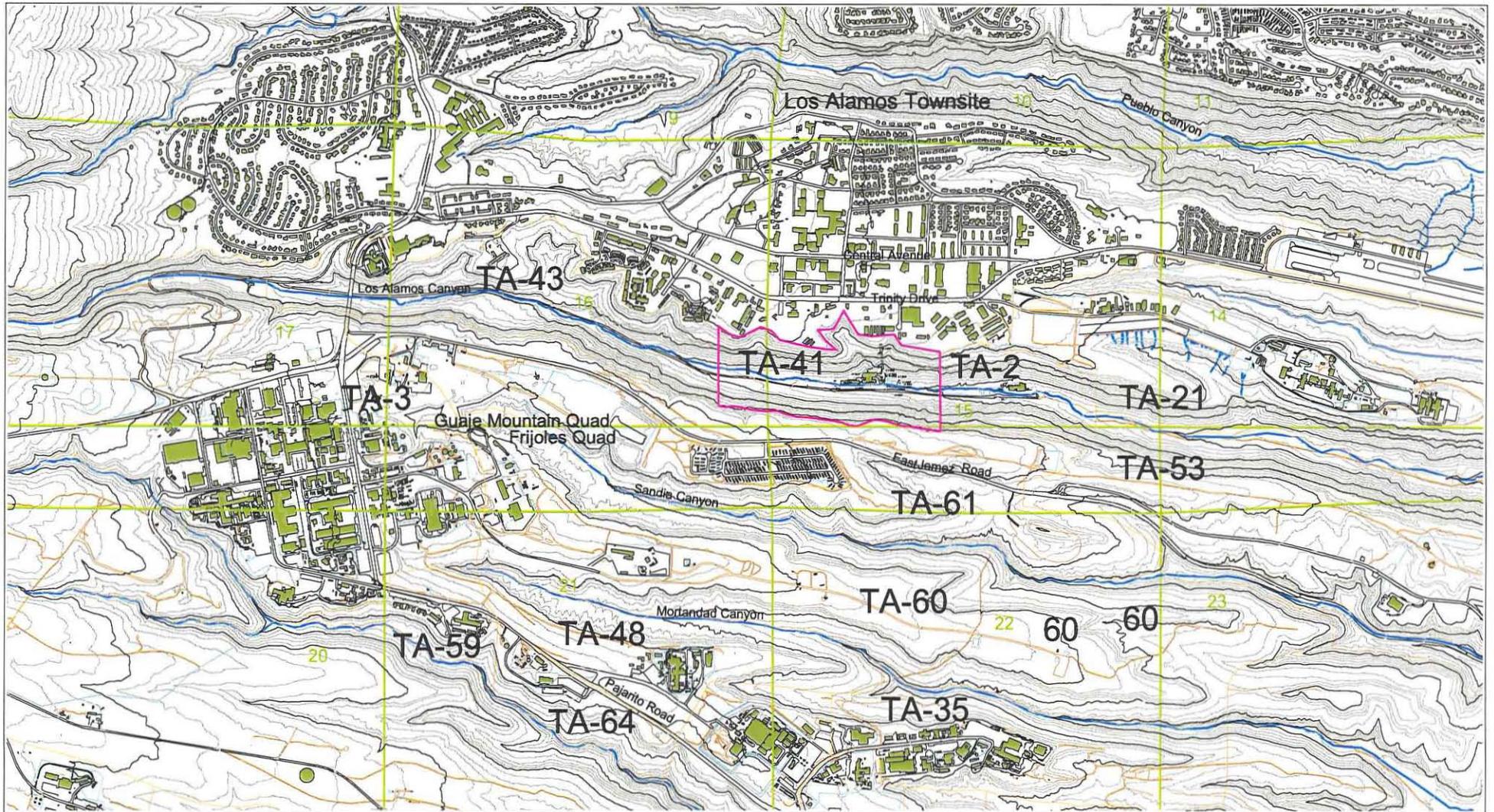
*Cultural Resources Management Team
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**Los Alamos
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TA-41



Map A1



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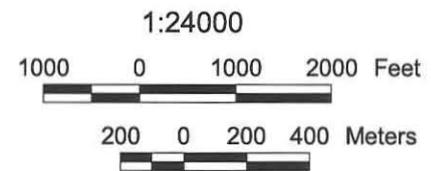
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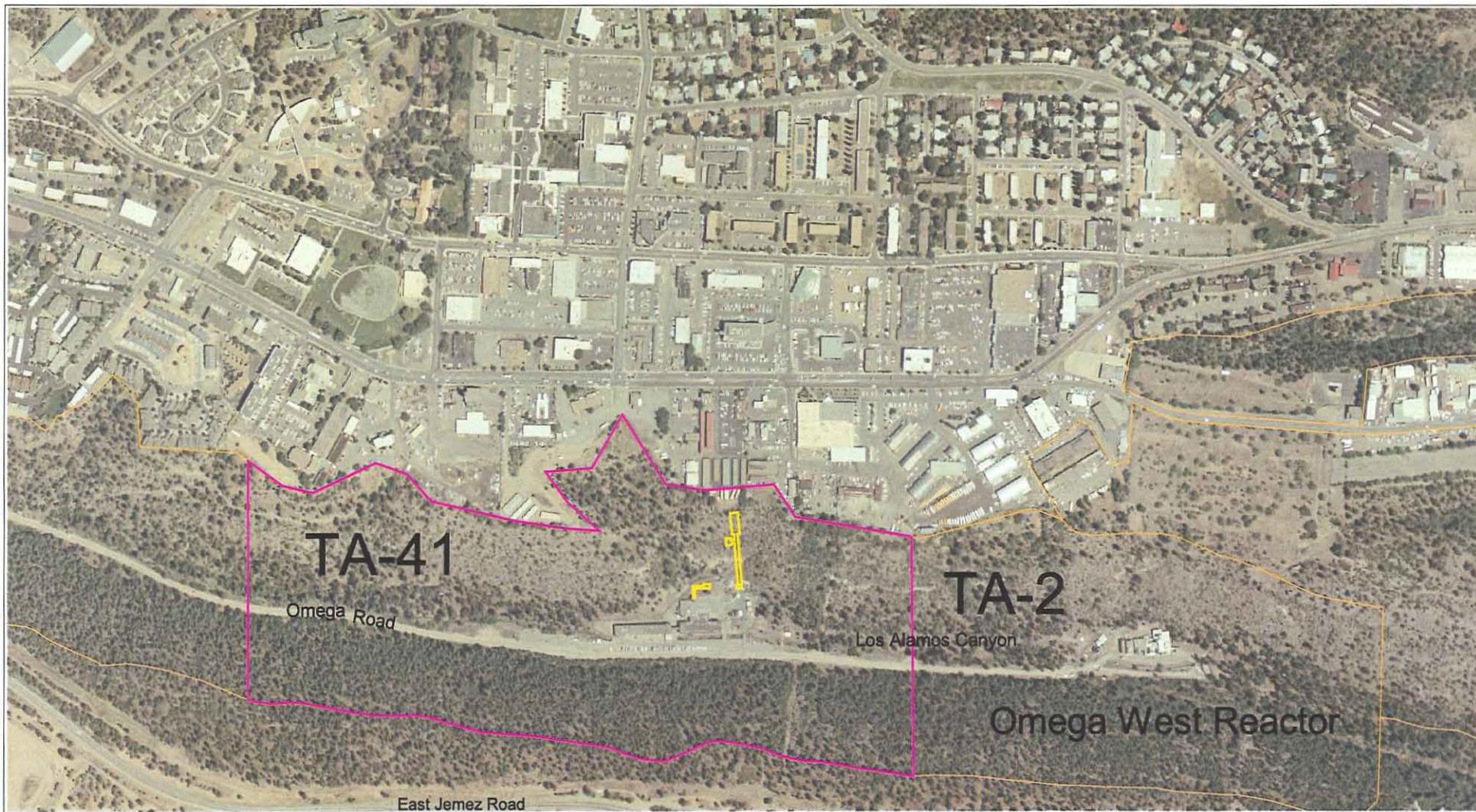
TA-41



Map A2

- Technical Area 41
- 20 Foot Contours
- 100 Foot Contours
- Techarea
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- Roads
- Road/dirt
- Park/pave
- Park/dirt
- Ind fence
- Sec fence
- Structures





Los Alamos National Laboratory

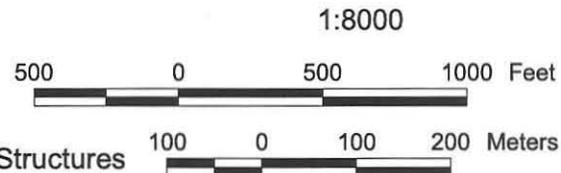
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TA-41



Map A3

- Underground Structures
- Technical Area 41
- Techarea



Three-Dimensional Representation of Buildings and Underground Structures at TA-41, within Los Alamos Canyon



LEGEND	
	TA-41 Structures
	TA-41 Underground Structures



Post-Cerro Grande fire digital orthophoto draped over a terrain model developed from a 16 foot DEM.

All structure layers acquired from the ASBuilt Program (11/30/99).

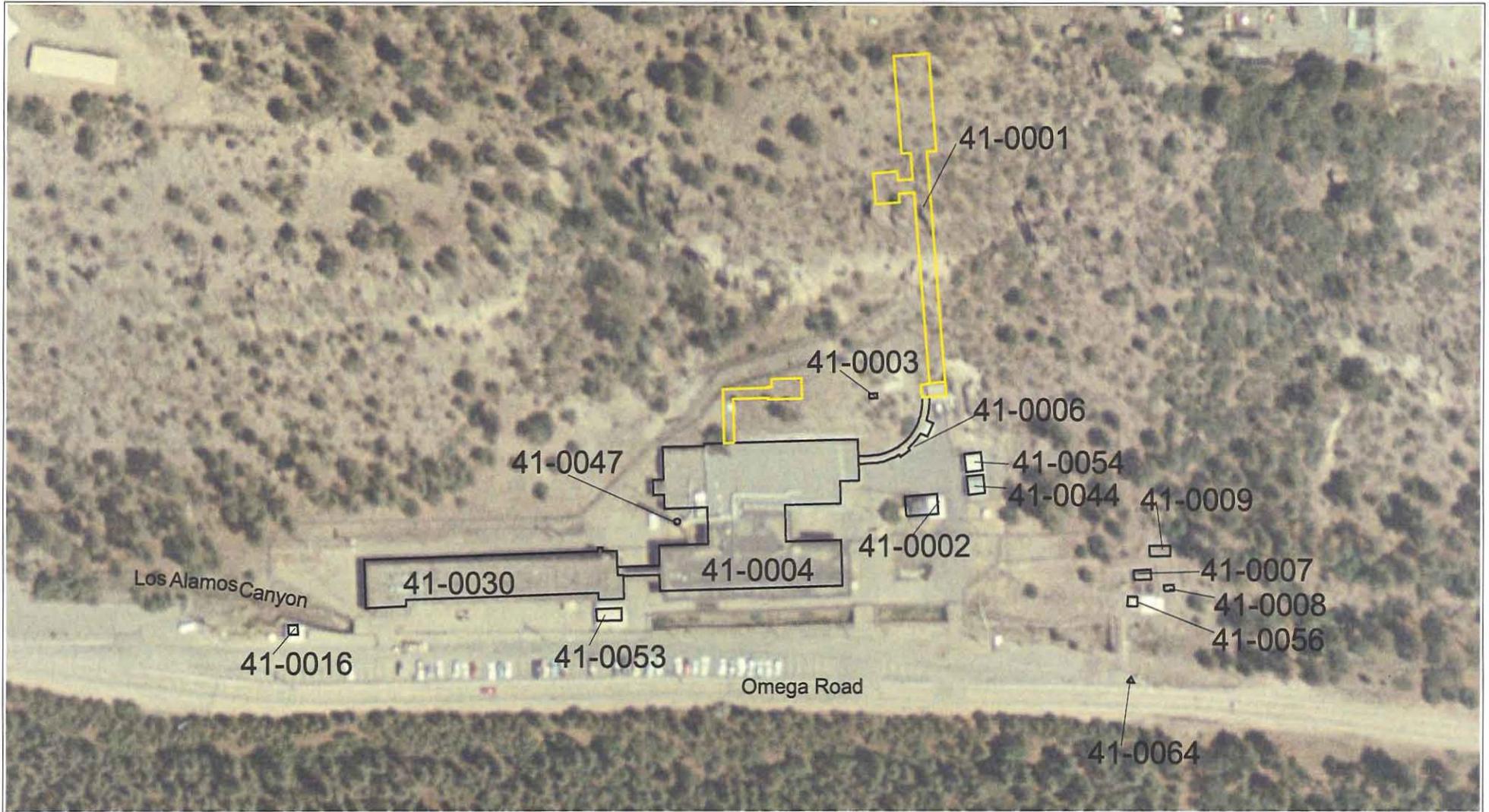
THE DATA HEREIN HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE, BUT ITS ACCURACY AND COMPLETENESS ARE NOT GUARANTEED. THE DATA MAY CONTAIN SOME NONCONFORMITIES, DEFECTS, ERRORS, AND/OR OMISSIONS.



Environmental Information Team

Map Reference # : 02-0240-01
March 13, 2002

Map A4



Los Alamos
National Laboratory

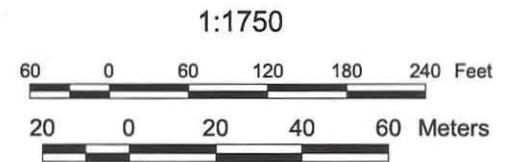
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TA-41

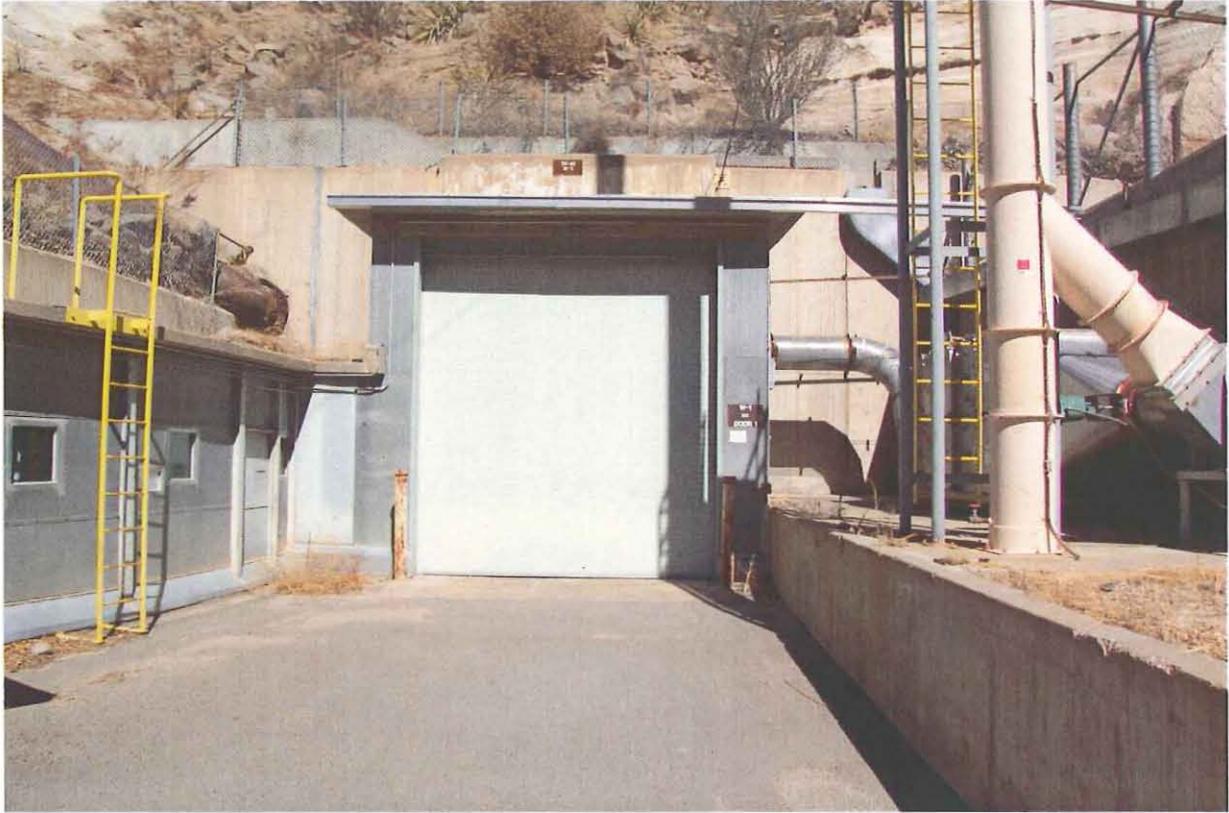


Map A5

 Underground Structures



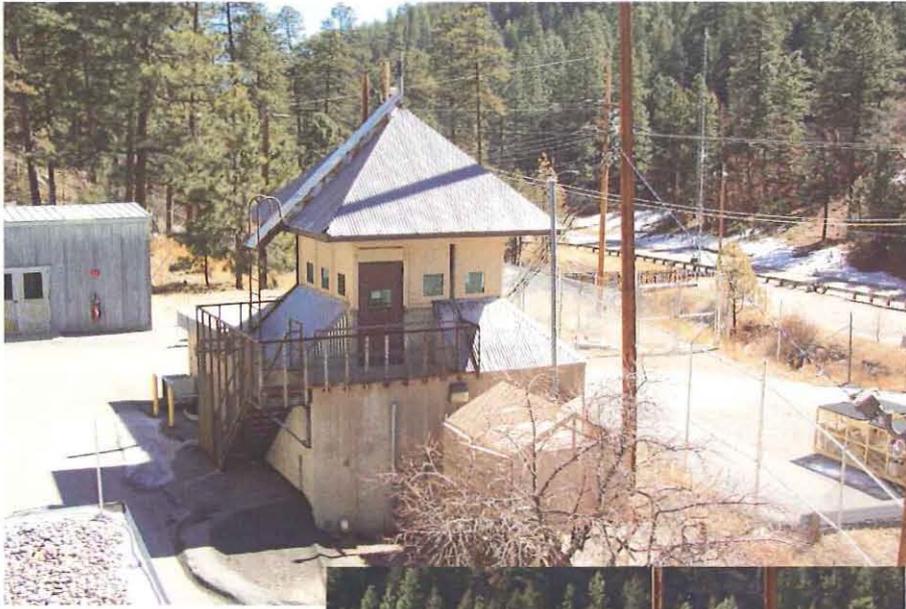
Appendix B
Photographs and Drawings



TA-41-1 Vault, South Elevation

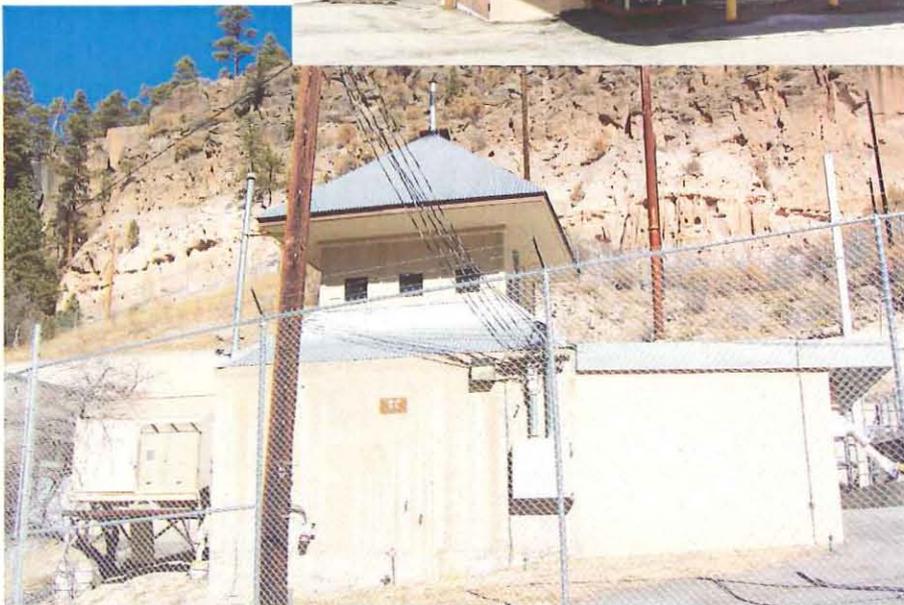
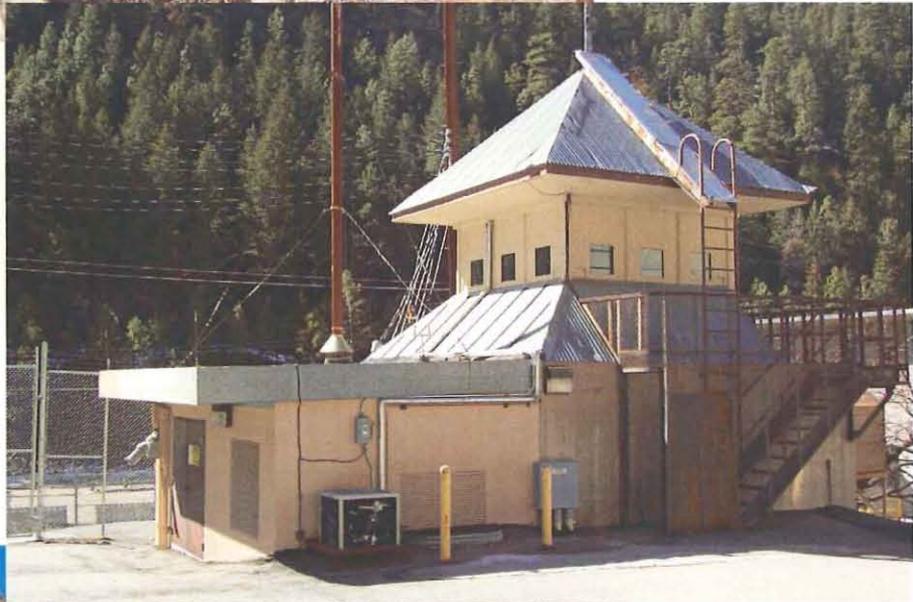


TA-41-3 Blower House Air Intake, South Elevation

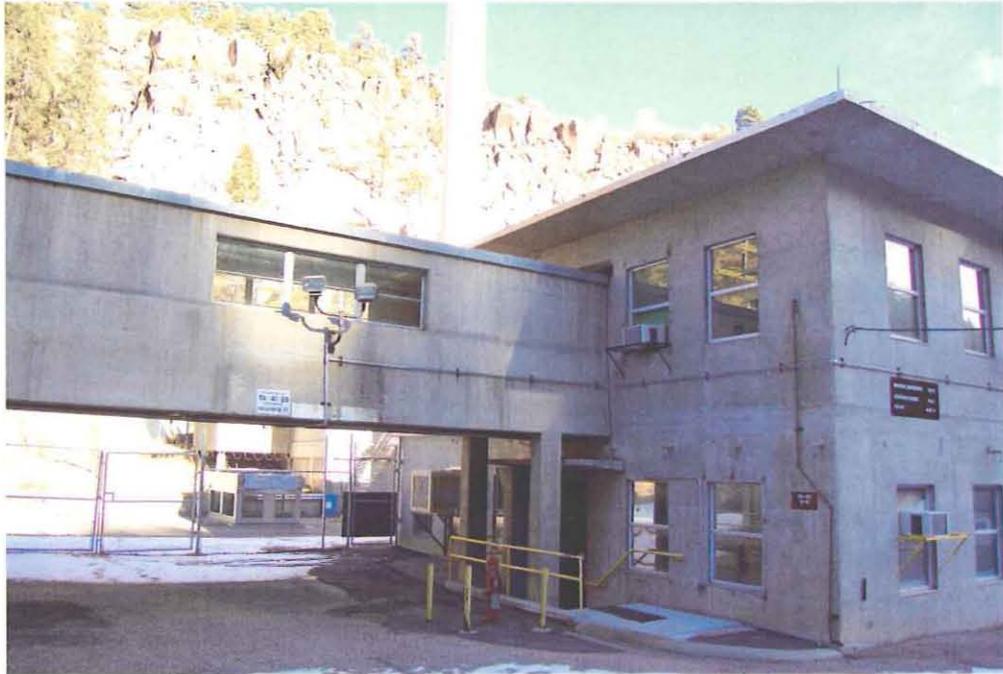


TA-41-2
Guard Station
North and West Elevations

TA-41-2
Guard Station
East and North Elevations



TA-41-2
Guard Station
South Elevation



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

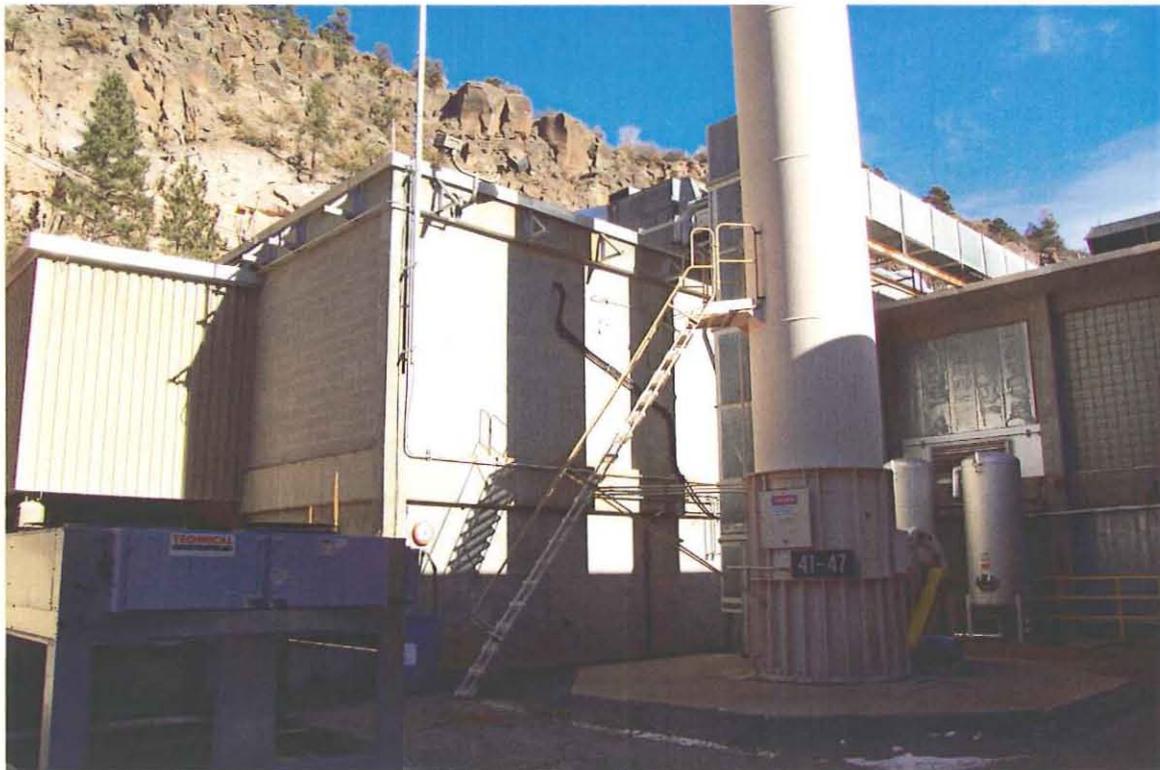
TA-41-4
Laboratory and
Office Building,
South Elevation



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



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



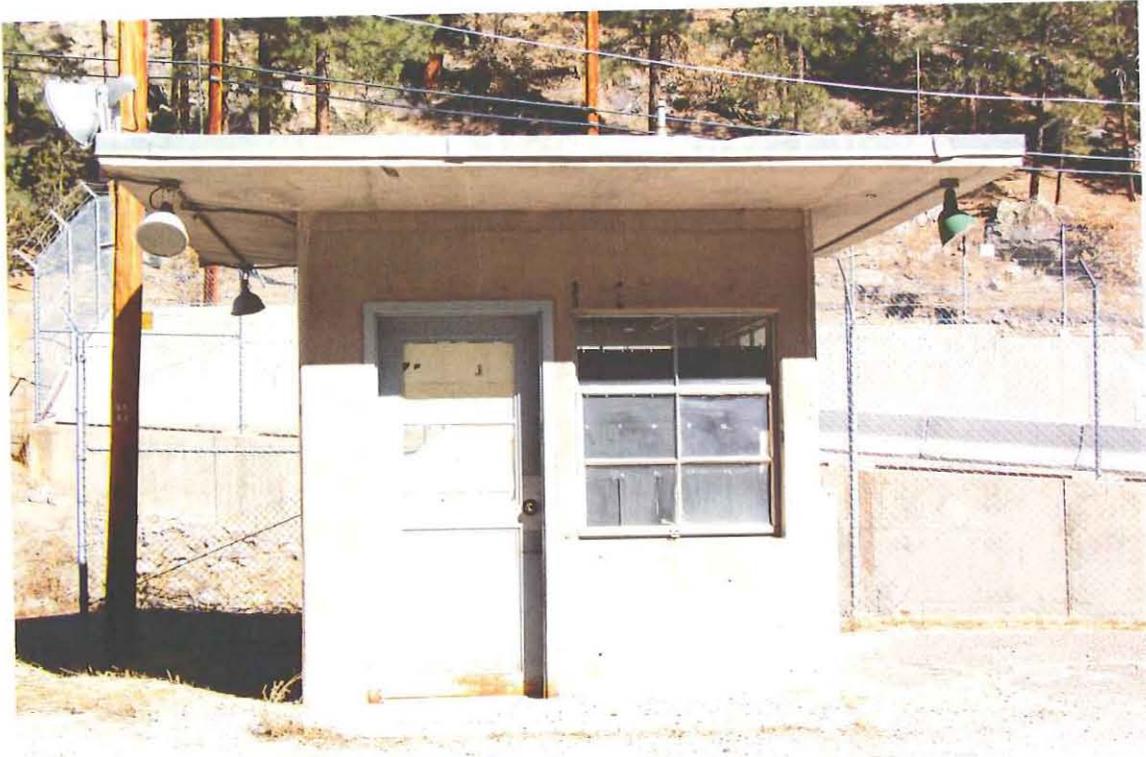
TA-41-4 Laboratory and Office Building, South Elevation of North Wing



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



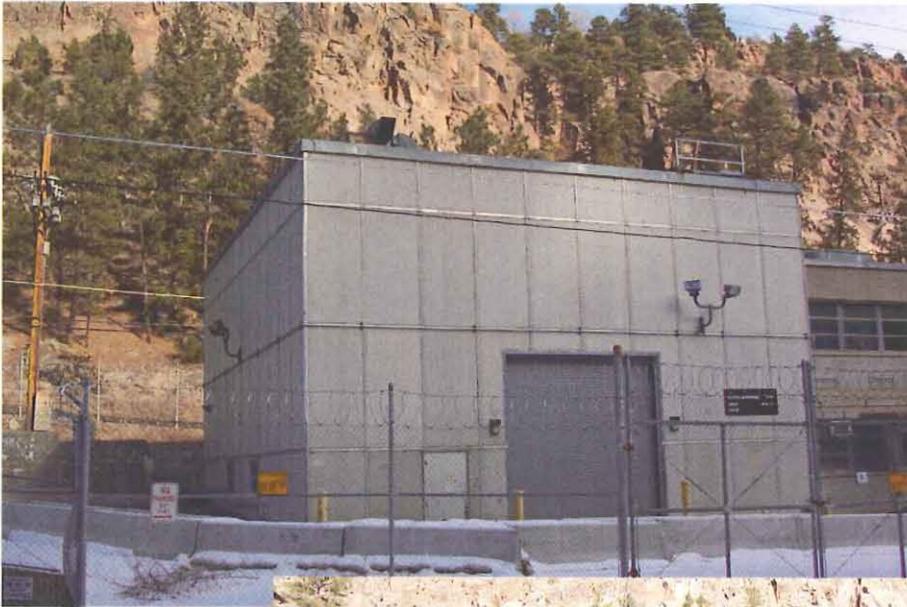
TA-41-6 Passageway, Connecting Building TA-41-1 on right to building TA-41-4, South Elevation



TA-41-16 Guard Station, South Elevation

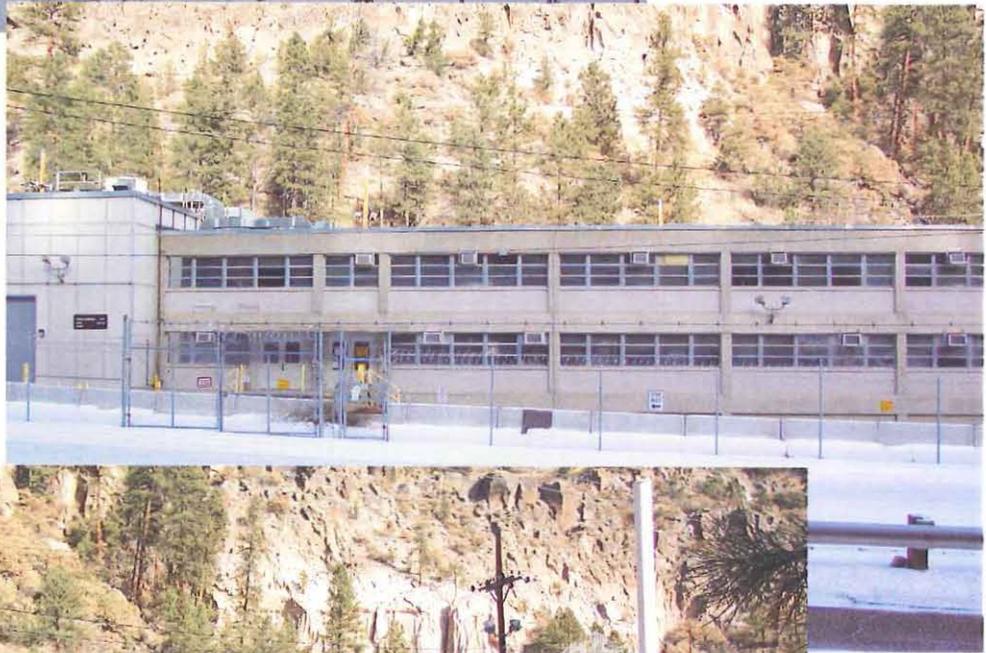


TA-41-16 Guard Station, West Elevation

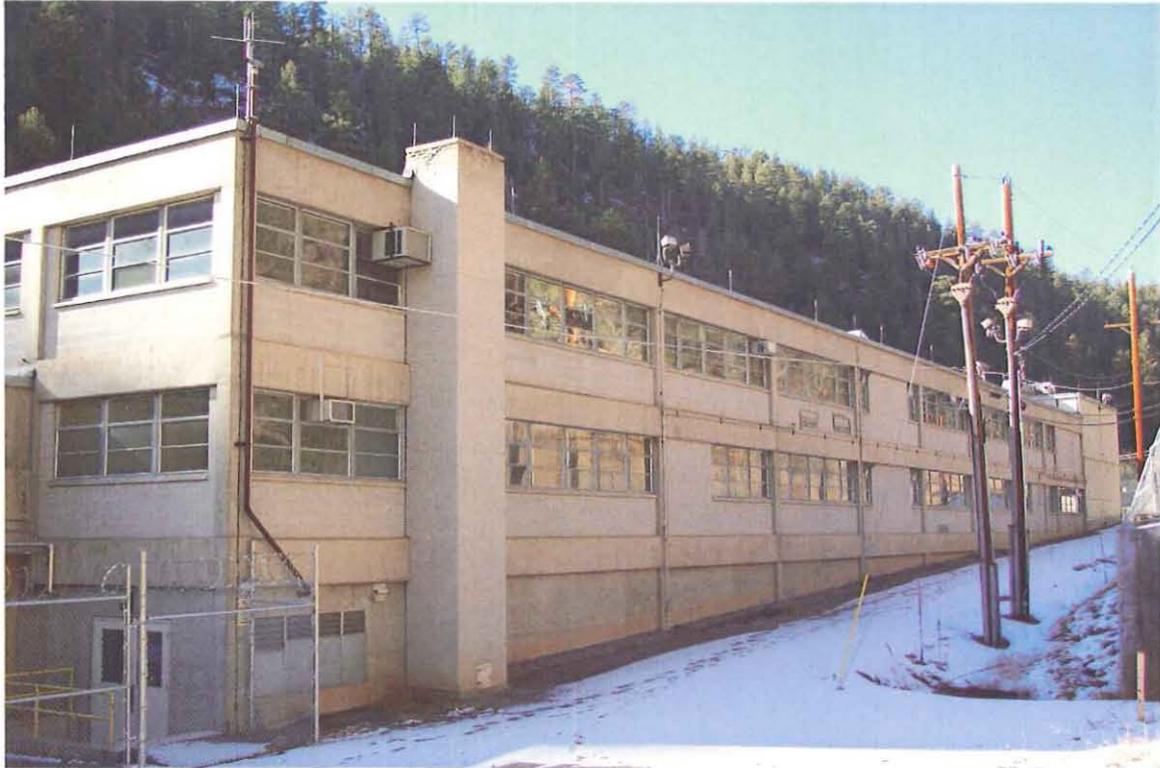


TA-41-30
Office Building and
High Bay,
West and South
Elevation

TA-41-30
Office Building and
High Bay,
South Elevation



TA-41-30
Office Building
and High Bay,
South Elevation



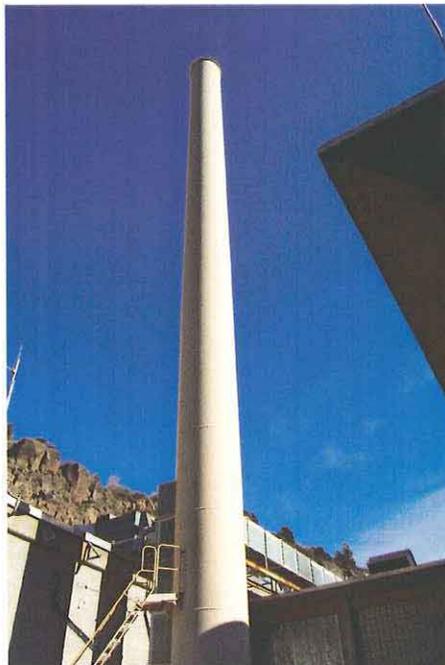
TA-41-30 Office Building and High Bay, North Elevation



TA-41-4 (left) and TA-41-30 (right,) North Elevation of Walkway

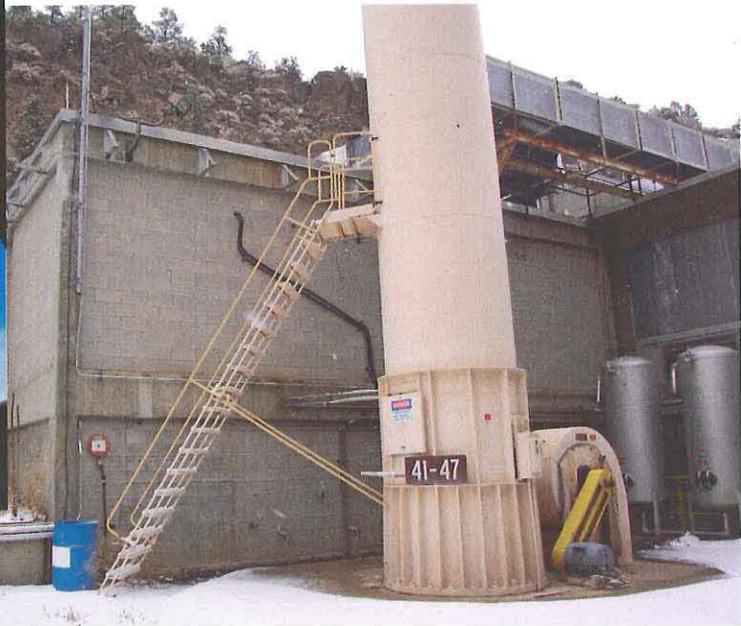


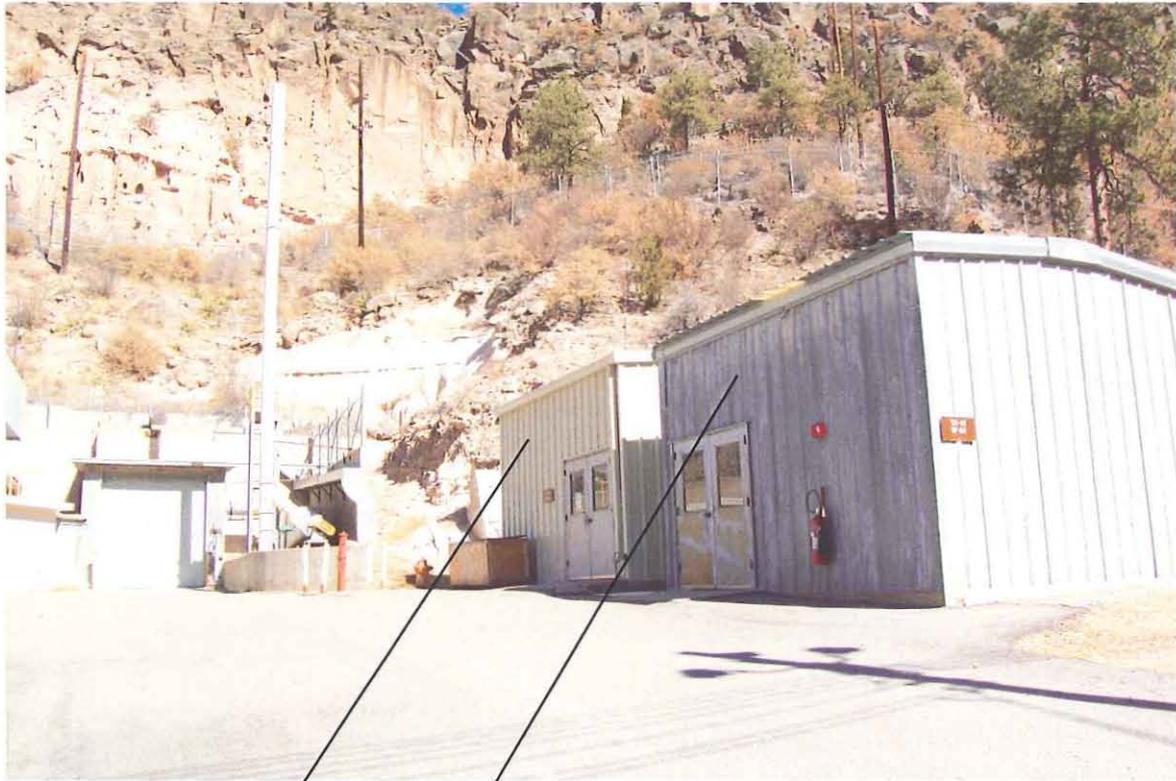
TA-41-53 Guard Station, South Elevation



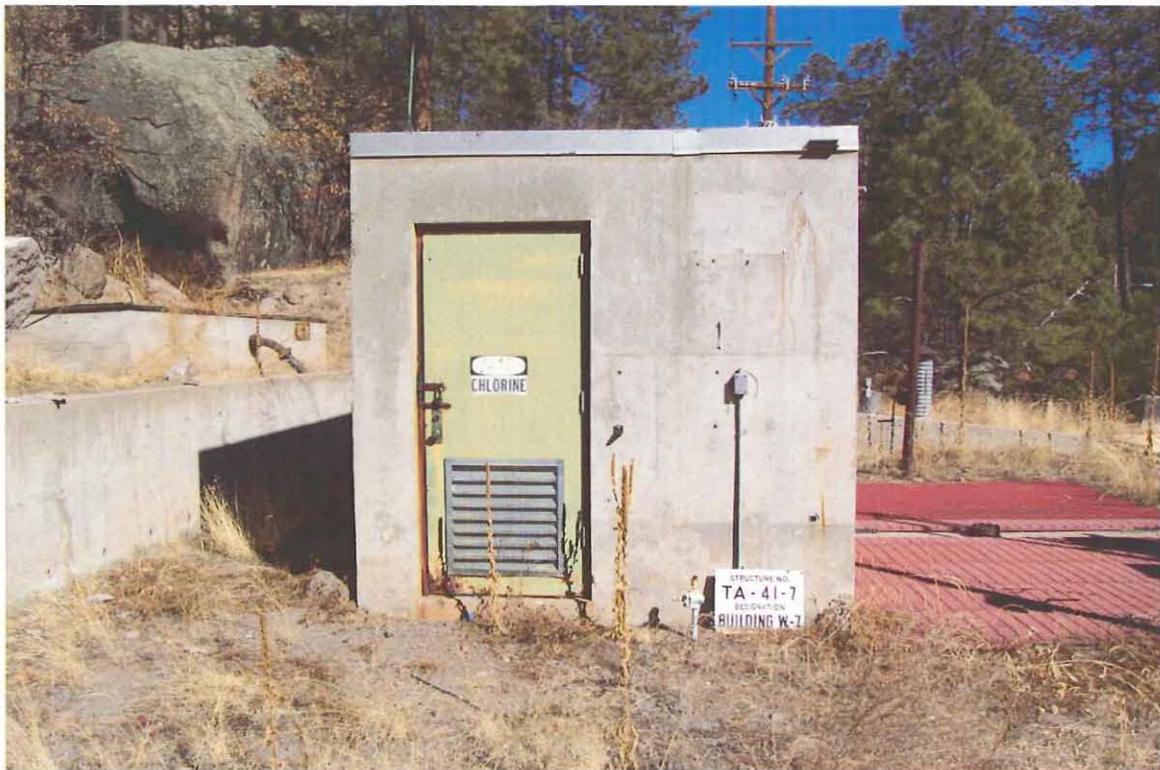
TA-41-47
Exhaust Stack

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





TA-41-54 and TA-41-44 Storage Buildings, West Elevation



TA-41-7 Sanitary Sewer Chlorinator Building, West Elevation



TA-41-8 Sanitary Sewer Contact Chamber, South Elevation



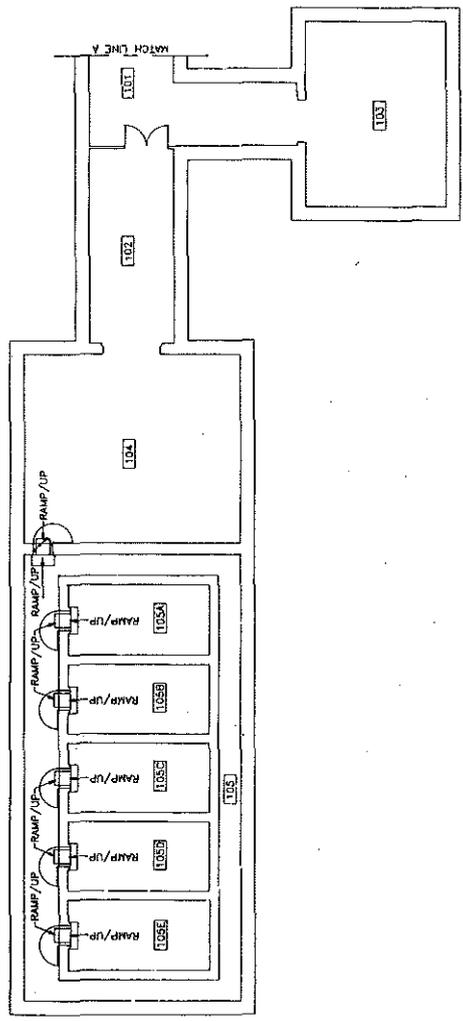
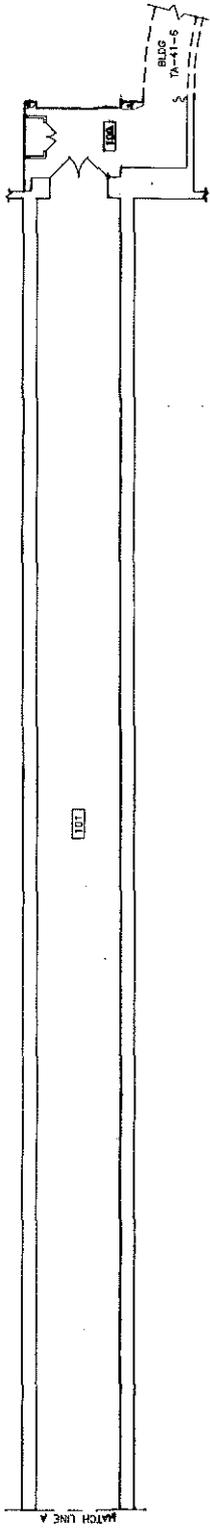
TA-41-9 Sanitary Sewer Drying Beds, South Elevation



TA-41-56 Sanitary Sewer Lift Station, South Elevation

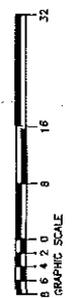


TA-41-64 Meteorological Tower



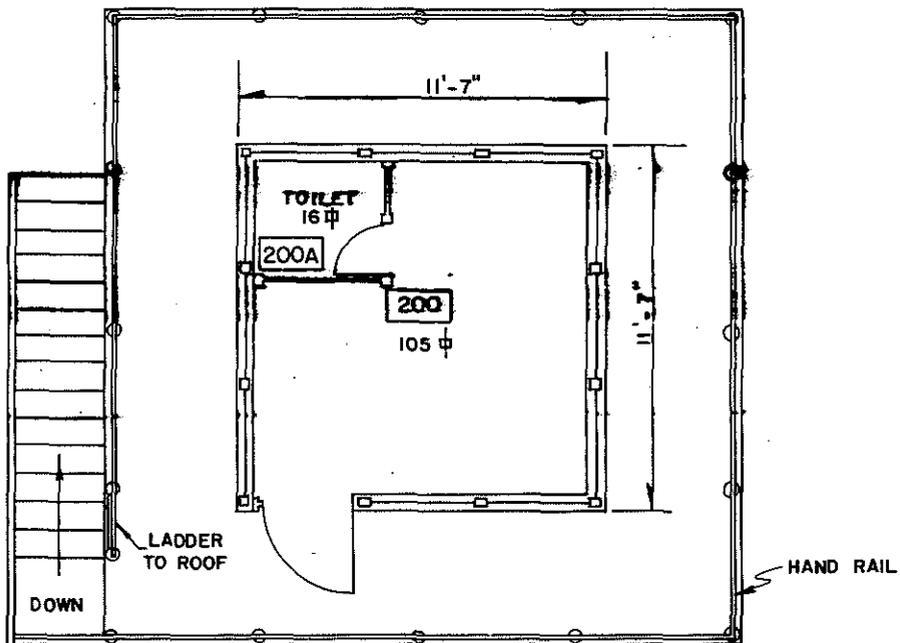
FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

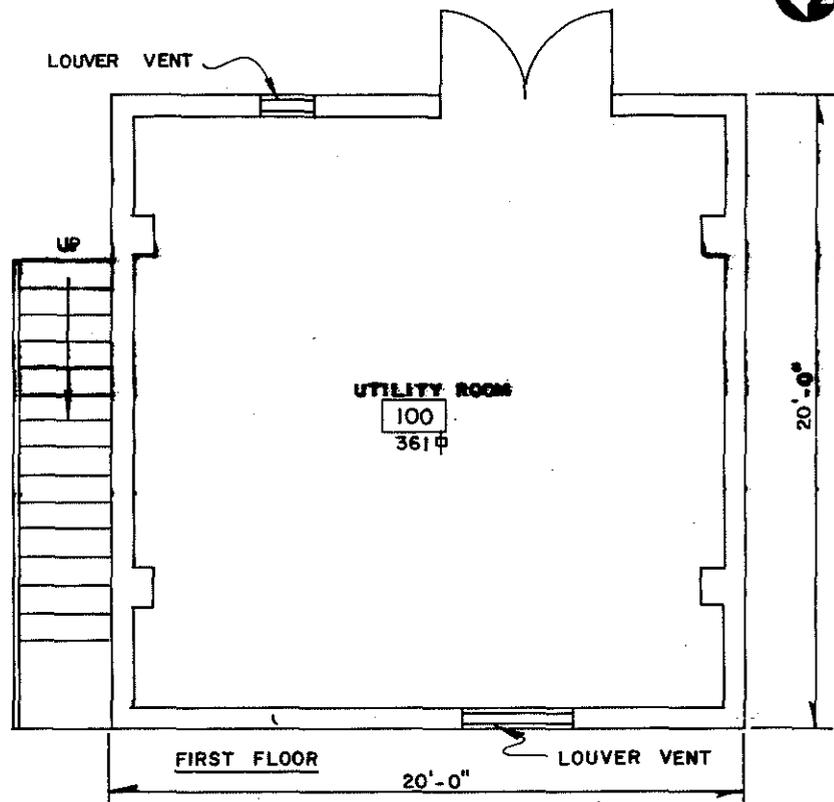


NO.	DATE	ISSUE	REV.	REVISIONS	DRW	CHK	APP	DATE

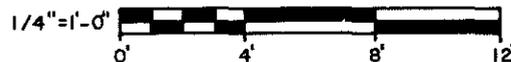
JOHNSON CONTROLS WORLD SERVICES INC.	
AS-BUILT RECORD FLOOR PLAN + UNDERGROUND VAULT	SHEET 1 OF 1
PROJECT: LOS ALAMOS	DATE: 10-1-93
DRAWING NO.: 7556	PROJECT NO.: AB111



SECOND FLOOR



FIRST FLOOR

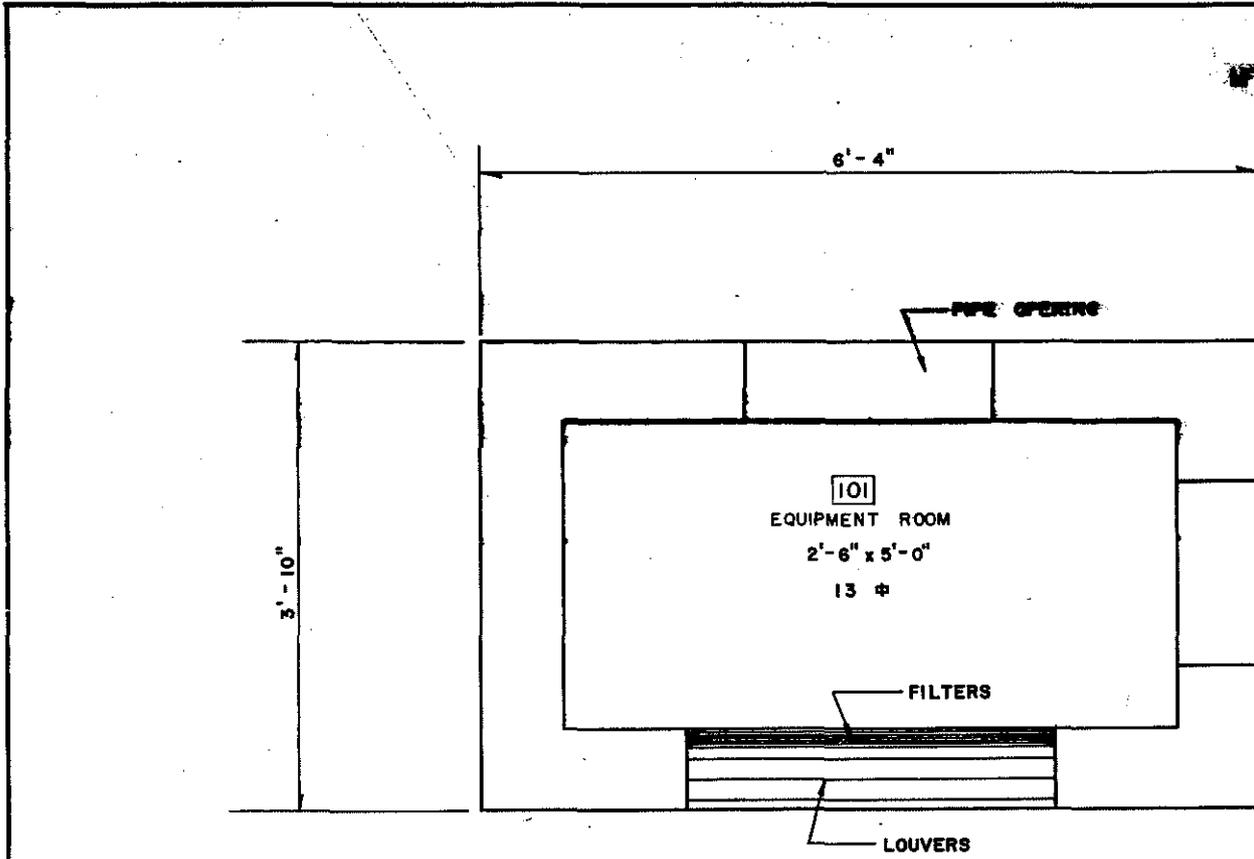


GRAPHIC SCALE

TOTAL SQ. FT. 482

REV.	DATE	REVISION	BY	CHKD.	APP.
2	2-2-84	REVISED TO STATUS OF 2-2-84	HBN	CS	CS
1	9-27-83	REDRAWN & REVISED TO STATUS OF 09/27/83	HBN	CS	CS
UNIVERSITY OF CALIFORNIA Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545					
FACILITIES ENGINEERING DIVISION					
GUARD HOUSE					
FIRST & SECOND FLOOR PLANS					SEC. CLASSIFICATION
					CLASS. <i>U</i>
					REVIEWER <i>Franklin</i>
BLDG. W-2					DATE <i>2-6-84</i>
SUBMITTED <i>W. Trujillo</i>		RECOMMENDED <i>Dan</i>		APPROVED <i>W. T. Eckert</i>	
DRAWN HBN	DATE 09/27/83	SHEET NO. 1 OF 1	DRAWING NO. ENG-R3138		
CHECKED <i>Franklin</i>	BY HBN				

REC'D _____ LOGGED _____ TO VAULT *both*



NO.	DATE	REVISIONS	BY	CHKD	GRP. ENG. LDR. D. O.
1	8-16-65	REVISED TO STATUS OF 8-12-65	DRK	✓	BER/3

MF

3	2-6-84	REVISED TO STATUS OF 2-6-84	HON	✓	DR
2	9-16-83	REVISED TO STATUS OF 9-16-83	HON	✓	DR
REV.	DATE	REVISION	BY	CHKD.	APP.

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

FACILITIES ENGINEERING DIVISION

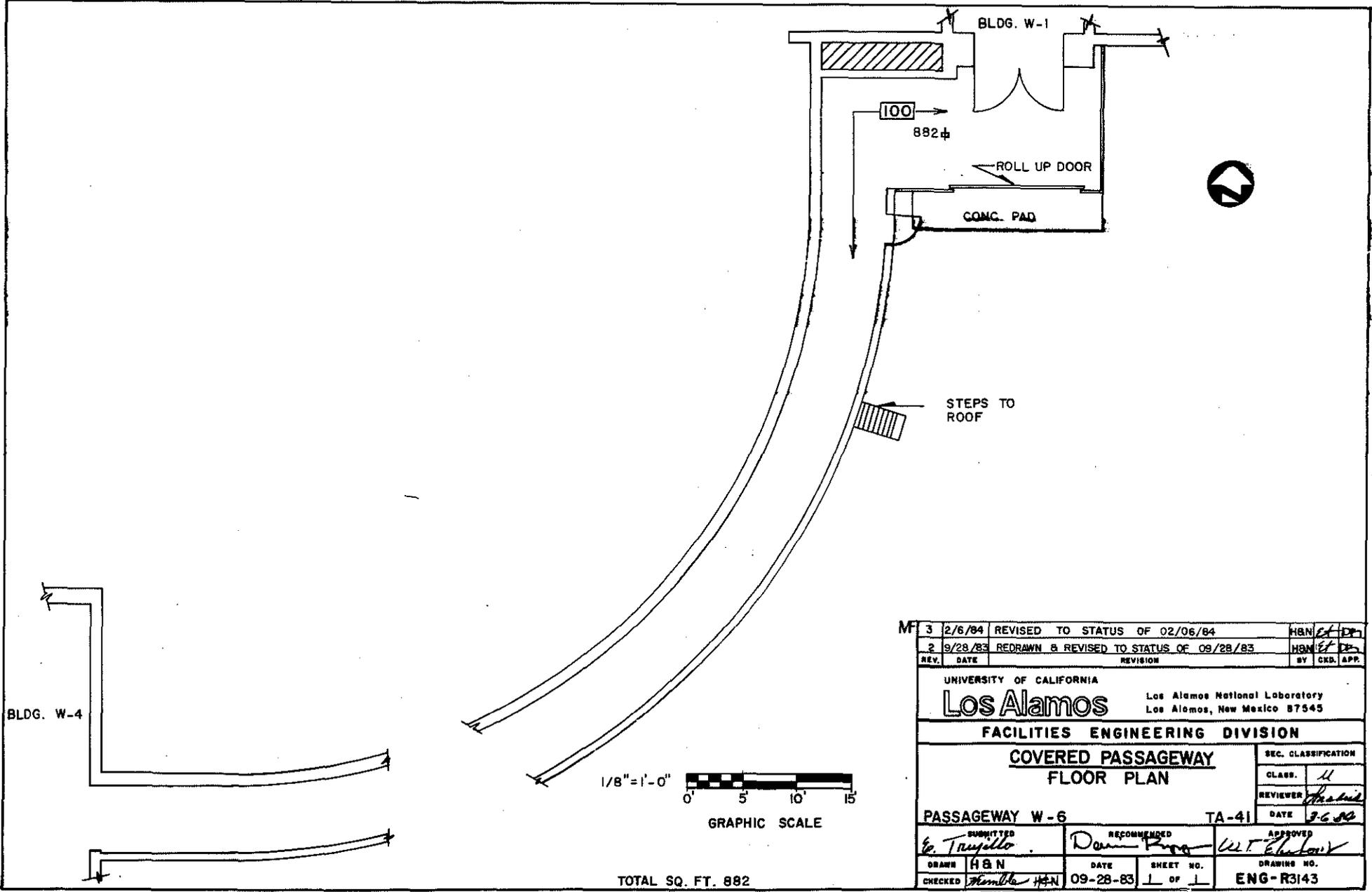
BLOWER HOUSE
FLOOR PLAN

REG. CLASSIFICATION
 CLASS. 4
 REVIEWER *W. H. ...*
 DATE 3-6-84

BLDG. W-3 TA-41

DESIGNED <i>Frank</i>	RECOMMENDED <i>Dennis King</i>	APPROVED <i>W. H. ...</i>
CHECKED <i>Thimble</i>	DATE 1-22-63	SHEET NO. 1 OF 1
LOGGED	TO VAULT	ENG-R3377

TOTAL SQ. FT. 13



REV.	DATE	REVISION	BY	CHKD.	APP.
M 3	2/6/84	REVISED TO STATUS OF 02/06/84	H&N	et	DP
2	9/28/83	REDRAWN & REVISED TO STATUS OF 09/28/83	H&N	et	DP
UNIVERSITY OF CALIFORNIA Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545					
FACILITIES ENGINEERING DIVISION					
COVERED PASSAGeway FLOOR PLAN					SEC. CLASSIFICATION
					CLASS. <i>U</i>
					REVIEWER <i>H&N</i>
					DATE <i>3-6-80</i>
PASSAGeway W-6			TA-41		
SUBMITTED <i>to Tausello</i>		RECOMMENDED <i>Dennis King</i>		APPROVED <i>W.T. Eickhoff</i>	
DRAWN H&N	DATE 09-28-83	SHEET NO. 1 OF 1	DRAWING NO. ENG-R3143		
CHECKED <i>H&N</i>					

TOTAL SQ. FT. 882

REC'D..... LOGGED..... TO VAULT *John*

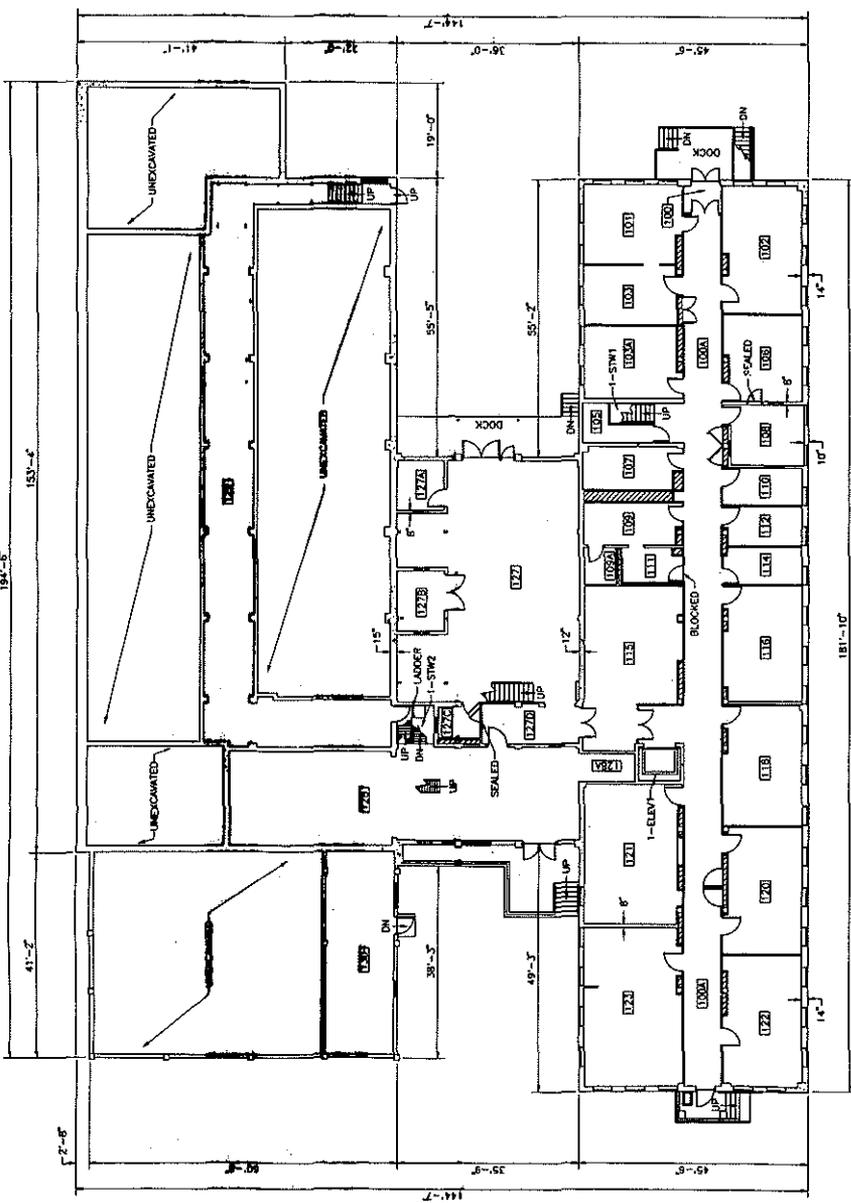
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497	100	498	100	499	100	500	100

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 13,286
 GROSS SQUARE FOOTAGE (THIS SHEET) = 14,178
 TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 374,334
 GROSS SQUARE FOOTAGE (BUILDING) = 40,865

- LEGEND**
- ○ CEILING
 - ▨ CONCRETE BLOCK
 - ▤ CHAIN LINK FENCE
 - I BEAM
 - LOUVER
 - UTILITY STRIP
 - WOOD ON 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-031440.
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 DRAININGS IN FLOOR SLABS) MEASURED TO THE OUTER SURFACES OF EXTERIOR WALLS. THIS INCLUDES ALL MEZANINE FLOORS, RECEPTION AREAS, RESTROOMS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENHOUSES, ENCLOSED PASSAGES AND WALLS, FINISHED FLOORS, ROOF DECKS, MECHANICAL ROOMS, ELEVATOR SHAFTS, RECEIVING PLATFORMS AT TRUCK OR RAILROAD CAR HEIGHT, ALSO INCLUDES ALL GROSS FLOOR AREA, BUT EXCLUDES ALL GROSS FLOOR AREA OF RECEIVING PLATFORMS AT TRUCK AND RAILROAD CAR HEIGHT. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.



FIRST FLOOR PLAN

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



DATE	DESCRIPTION	BY	CHECKED	DATE

JAHNSON WORLD SERVICES INC.
CONTROLS
 AS-BUILT RECORD FLOOR PLAN
 LABORATORY BUILDING
 ARCH: FIRST FLOOR PLAN

DATE: 01-11-11
 DRAWN: J. J. J.
 CHECKED: J. J. J.
 REVISION: J. J. J.

PROJECT: 7556
 SHEET: 2 OF 3
 DATE: 5/18/11

Los Alamos
 T. J. J.
 T. J. J.

AB120

A B C D

Appendix C
LANL Historic Building Survey Forms: TA-41-30 and TA-41-53

LANL TA Building # 41-0030

Camera 984242

Frame #s DCP_0757 thru DCP_0766, DCP_0784 thru DCP_0808

Surveyor(s) K. Towery/J. Ronquillo

Date 12/10/2001

Los Alamos National Laboratory CRMT Historic Building Survey Form

Building Name Office Building UTMs easting 382819 northing 3970847 zone 13

Legal Description: Map Guaje Mountain 7.5 Minute Quad trsp 19N range 6E sec 13

Current Use/ Function Office Space currently unoccupied Original Use/ Function Office/Lab Space

Date (estimated) Date (actual) 1959 Property Type Administration

Type of Construction

Pre-Fabricated Metal [] Steel Frame [] Wood Frame [] CMU [] Reinforced Concrete [x]

Other Type of Construction The building construction includes a concrete frame with CMU in-fill shear walls. # of Stories 3

Foundation Reinforced Concrete

Exterior CMU-Exterior [x] Reinforced Concrete-Exterior [x] Steel (galvanized) [] Steel (corrugated) [] Wood Siding [] Asbestos Shingles-Exterior [] In-Fill Panels [] Other-Exterior []

The high bay area at the west end of the building has transite panels symmetrically placed between aluminum battens on all exposed surfaces.

Exterior Treatment (painted, stuccoed, etc) Exposed unpainted concrete and CMU walls; unpainted transite panels.

Exterior Features (docks, speakers, lights, signs, etc) There is a dock on the osuth elevation (west end) and an overhead door on the south elevation.

Addition CMU-Addition [] Reinforced Concrete-Addition [] Steel (galvanized)- Addition [] Wood [] Steel (corrugated)-Addition [] Asbestos Shingles-Addition [] Other- Addition []

Exterior Treatment-Addition

Exterior Features-Addition

Roof Form Slanted/Shed [] Gable [] Other Roof Type Flat with a slight pitch. The building has a system of interior roof drains.

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal [] Rolled Asphalt [] Asbestos Shingles [] 4-Ply Built Up [x] Other Roof Materials

Window Type Casement Single Hung Sash Double Hung Sash Fixed Window

Other Window Type Steel framed awning

of Each Window Type/ Comments

Glass Type Clear Wire Glass Opaque Painted Glass Glass Block

Light Pattern

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

Hollow Metal Solid Wood 1/2 Glazed Paneled

Louvered Painted

Interior Fire Door Single Double Roll-up Sliding

Hollow Metal Solid Wood 1/2 Glazed Paneled

Louvered Painted

Equipment Door Types Exterior Fire Door Single Double Roll-up Sliding

Hollow Metal Solid Wood 1/2 Glazed Paneled

Louvered Painted

Interior Fire Door Single Double Roll-up Sliding

Hollow Metal Solid Metal 1/2 Glazed Paneled

Louvered Painted

of Each Door Type/Comments:

Interior Wall Gypsum Board Reinforced Concrete- Interior

CMU- Interior Plywood Other- Interior

In-Wall Electrical Wiring On-Wall Electrical Wiring

Ceiling Drop Ceiling

Interior Comments (Equipment, etc)

The partial basement consists of mechanical and storage space. The first floor consists of vault, office, laboratory, conference and high bay areas. The second floor consists of office, laboratory areas and access to the lower high bay floor.

Degree of Remodeling Minor

Condition Excellent Good Fair Deteriorating Contaminated Burned

Associated Building

If yes, list building names and #s: TA-41-4

Integrity Good

Significance Of Interest (associated with LANL/DOE themes)

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: R and D Projects

LANL Themes Weapons R and D, Testing, and Stockpile Support Super Computing Reactor Technology
Biomedical/Health Physics Strategic and Supporting Research Environment/Waste Management
Administration and Social History Architectural History

Site Plan Available

Recommendations/ Additional Comments

Architectural Features (elevations)

The architectural style of this building is standard light industrial consisting of elements that would categorize the building as "Modern" exposed structure, flat planes, few features, and with unpainted materials to expose their natural color and texture.

Total sq ft 22,730 Gross

Architect/ Builder

A/E firm, Davis, Foster and Thorpe. Contractor, R.E. McKee

Alterations

A small metal canopy was added over the stairs leading to the basement on the south elevation. Individual window mounted air conditioners were added in many of the existing windows.

List of Drawings (Ctrl + Enter for para break)

ENG-C23860
Sheet 16 of 50
Engineering & Laboratory Building
Building W-30, TA-41
Architectural Elevations
December 1957

ENG-C23855
Sheet 11 of 50
Engineering & Laboratory Building
Building W-30, TA-41
Architectural First Floor Plan & Schedules
December 1957

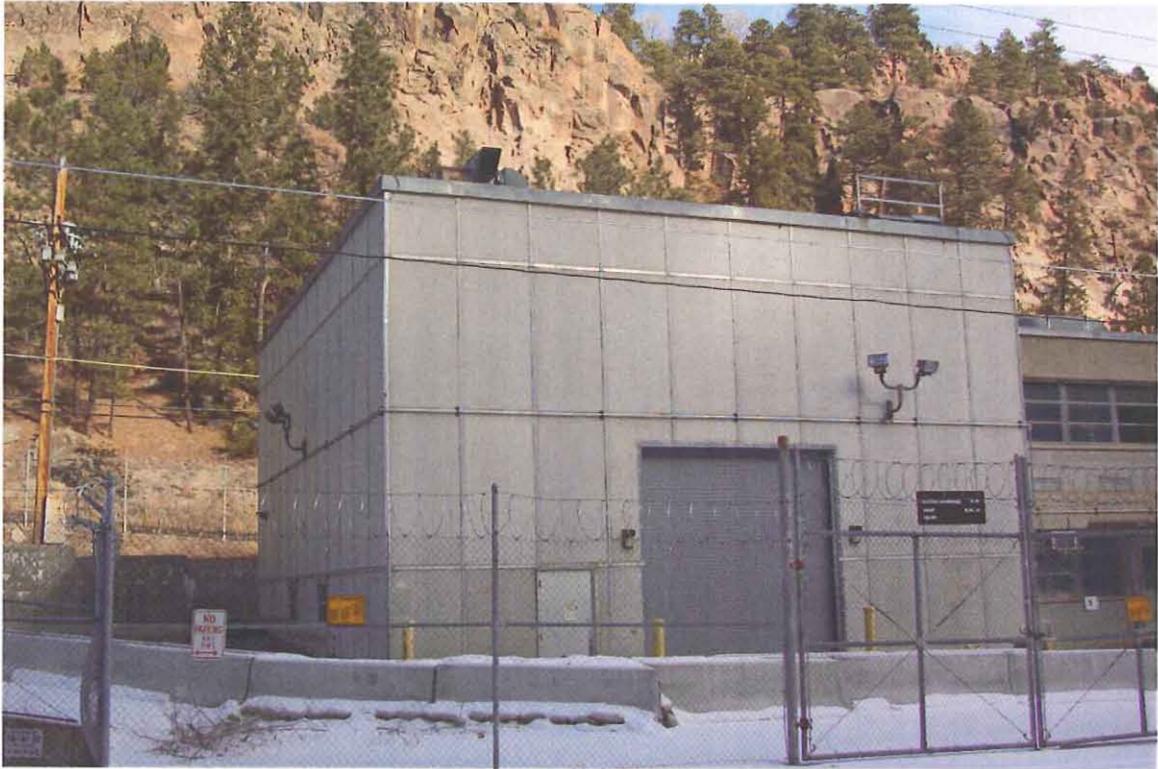
ENG-C23856
Sheet 12 of 50
Engineering & Laboratory Building
Building W-30, TA-41
Architectural Second Floor Plan & Schedules
December 1957

ENG-C23857
Sheet 13 of 50
Engineering & Laboratory Building
Building W-30, TA-41
Architectural Third Floor Plan & Schedules
December 1957

ENG AB568
Sheet 1 of 3
As-Built Record Floor Plan Office Building
Bldg 30, TA-41
Arch: Basement Floor Plan
12-14-1995

ENG AB568
Sheet 2 of 3
As-Built Record Floor Plan Office Building
Bldg 30, TA-41
Arch: First Floor Plan
12-14-1995

ENG AB568
Sheet 3 of 3
As-Built Record Floor Plan Office Building
Bldg 30, TA-41
Arch: Second Floor Plan
12-14-1995



TA-41-30 South Elevation, West End



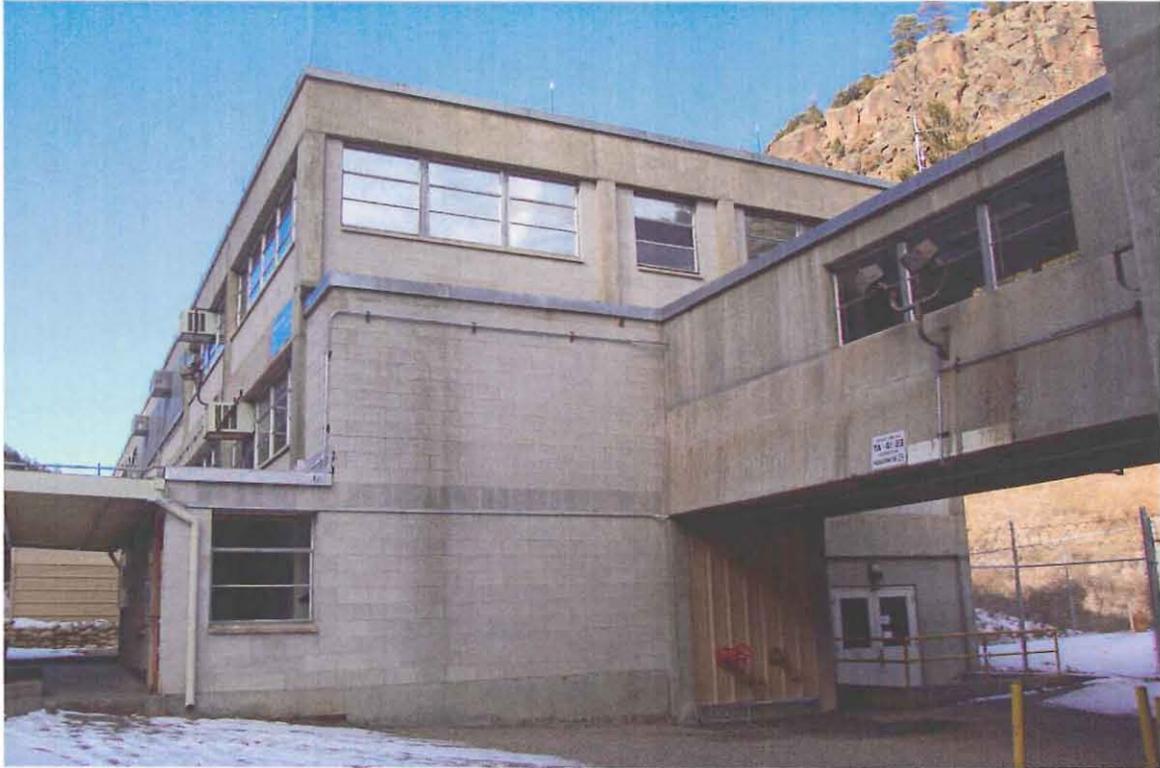
TA-41-30 South Elevation



TA-41-30 South Elevation



TA-41-30 South Elevation, East End



TA-41-30 East Elevation



TA-41-53 and TA-41-30 East Elevations



TA-41-30 North Elevation



TA-41-30 North Elevation, East End



TA-41-30 West Elevation



TA-41-30 High Bay, Direction South



TA-41-30 High Bay, Direction North



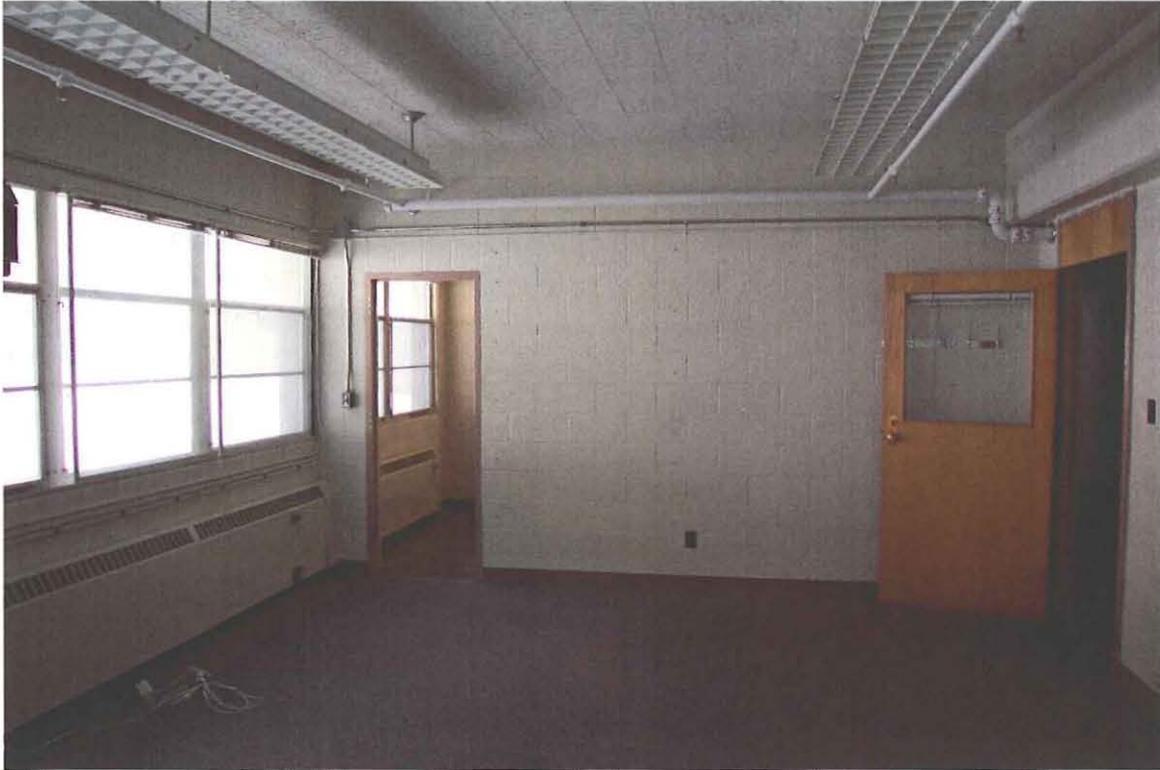
TA-41-30 High Bay, Direction East



TA-41-30 High Bay, Direction West



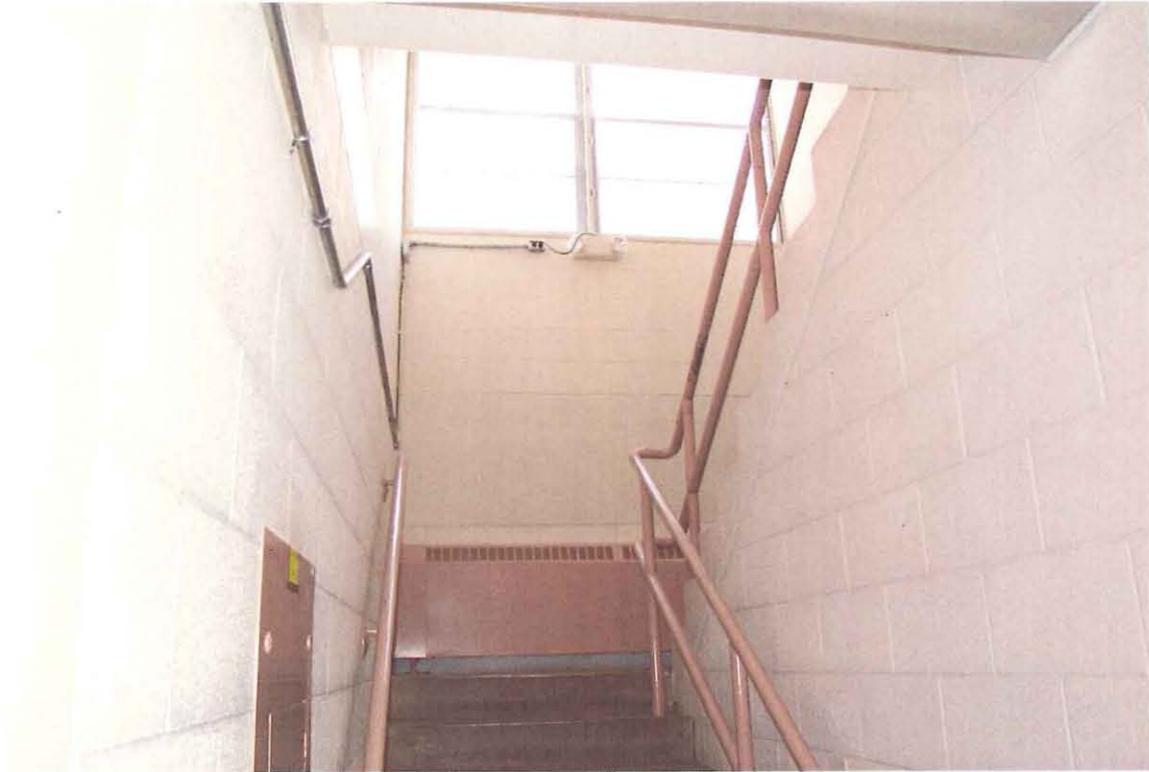
TA-41-30 First Floor Hallway, Direction West



TA-41-30 Typical Office, First Floor



TA-41-30 Typical Office, First Floor



TA-41-30 Stair Well



TA-41-30 Men's Room



TA-41-30 Entrance Stair Well



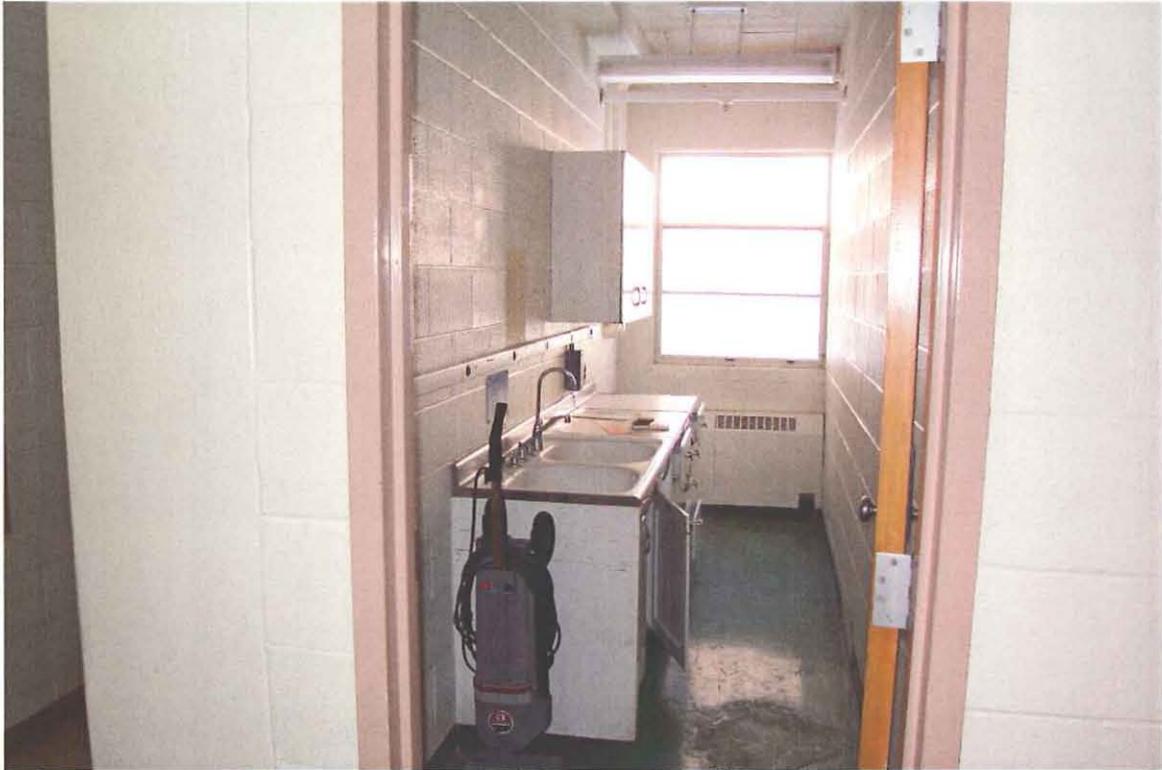
TA-41-30 Large Office, Second Floor



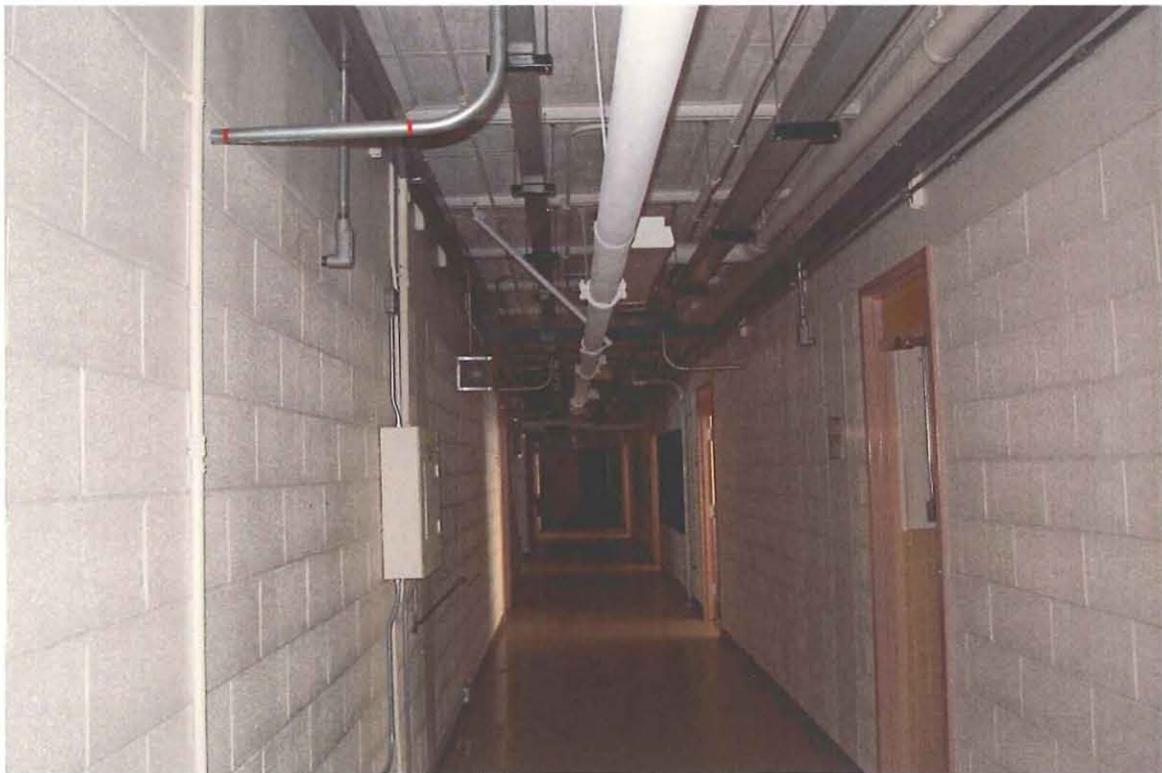
TA-41-30 Drafting Room, Second Floor, Looking East



TA-41-30 Drafting Room, Second Floor, Looking West



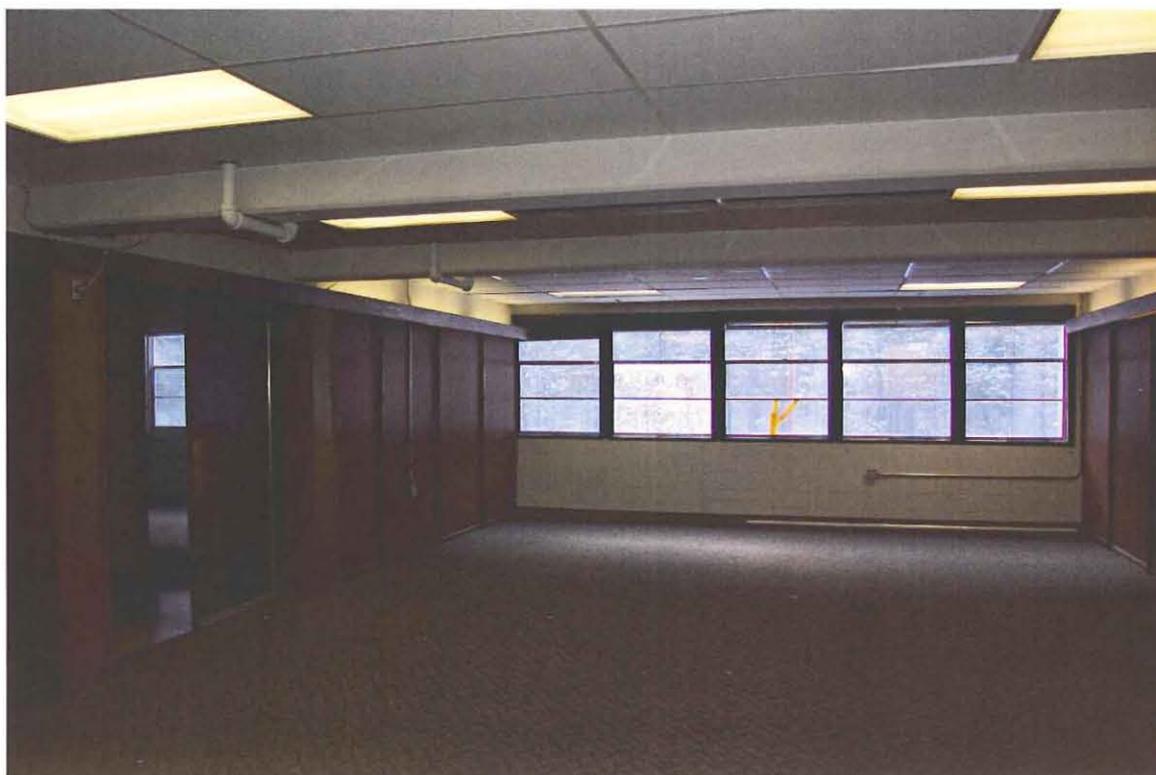
TA-41-30 Kitchen, First Floor



TA-41-30 Second Floor Hall



TA-41-30 Conference Room, Second Floor, Direction North



TA-41-30 Conference Room, Second Floor, Direction South



TA-41-30 Elevator



TA-41-30 Elevator



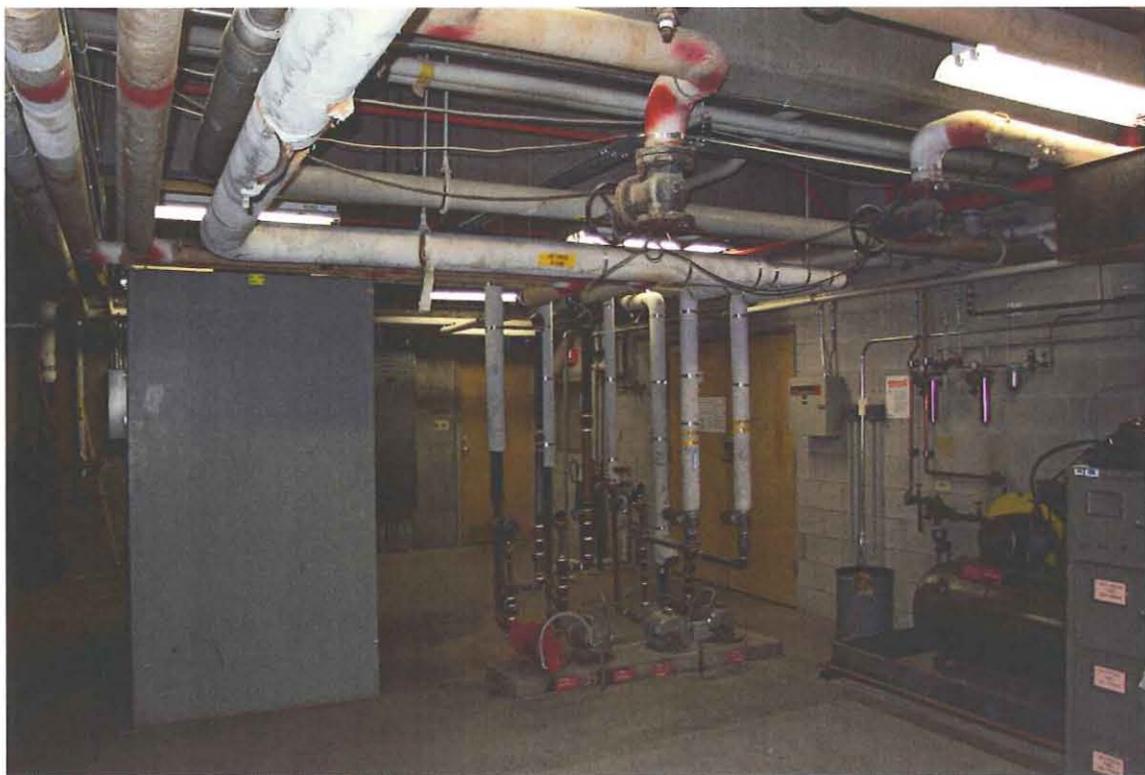
TA-41-30 Basement, Exercise Room, Direction Northeast



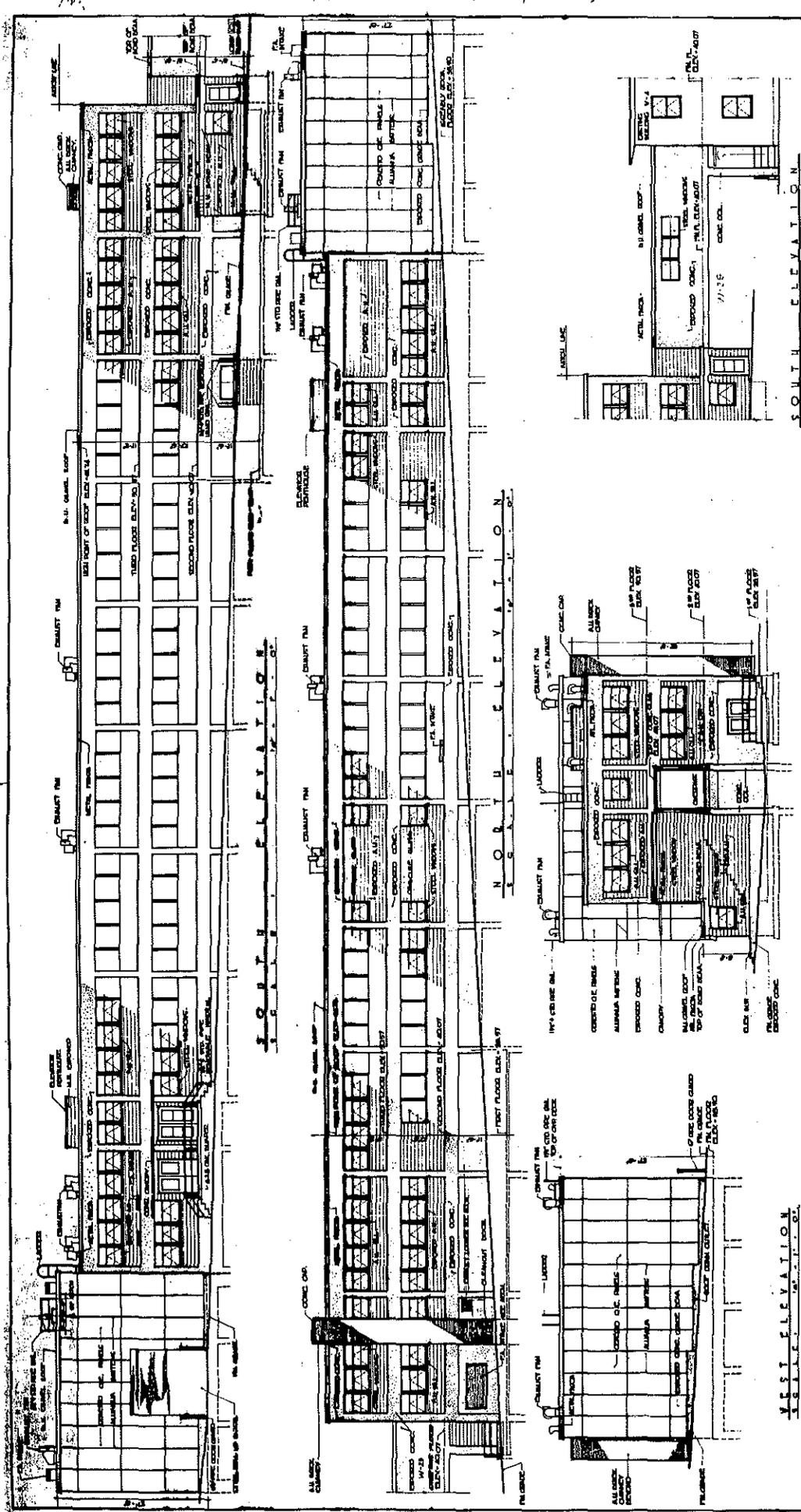
TA-41-30 Basement, Exercise Room, Direction Northwest



TA-41-30 Mechanical Room, Direction North



TA-41-30 Mechanical Room, Direction South



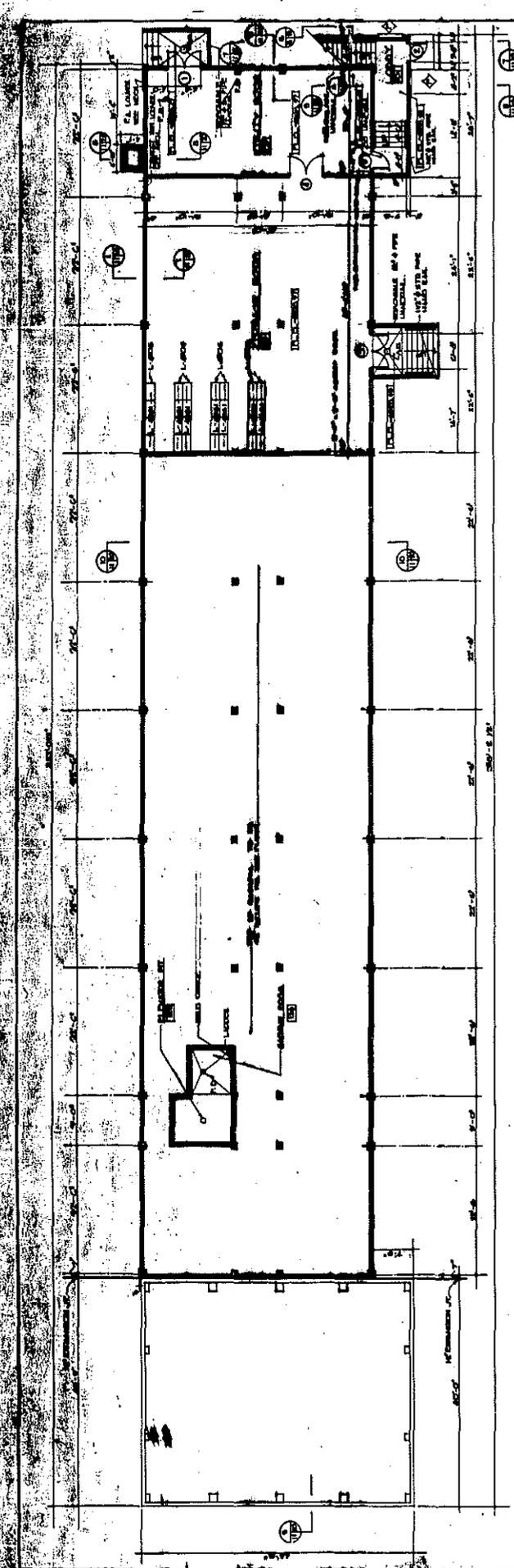
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1/15/48	100	REVISED

U.S. ATOMIC ENERGY COMMISSION
 ENGINEERS & LABORATORY BUILDING
 ARCHITECTURAL ELEVATIONS
 BUILDING W-30 J-W-29
 TA-41
 LA-CI-116
 U.S. ATOMIC ENERGY COMMISSION
 ARCHITECTURAL ELEVATIONS
 BUILDING W-30 J-W-29
 TA-41
 LA-CI-116

AS CONTRACTED DRAWING
 CONTRACT NO. AT-39-11-847
 DESIGN, PREPARED, DRAWING AND ASSOCIATES
 SUBMITTED BY: [Signature]
 APPROVED BY: [Signature]

DATE: CHECKED
 P.L.: CHECKED
 A.L.: CHECKED
 C.L.: CHECKED

U.S. JOB: 1949
 L.A.S.L. DRAW. NO. ENG-23860



FIRST FLOOR PLAN

NOTE: 1-1/2" ON ACTUAL PRODUCTS ARE OF EQUAL

ASSUMPTIONS:
 CASY GARMENT
 FAB-FLOOR DRAIN



ROOM FINISH SCHEDULE			
ROOM NO.	FINISH	DESCRIPTION	REMARKS
101	FLOOR	WELL	CEILING
102	CEILING	EXP. BR.	EXP. BR.
103	CEILING	EXP. BR.	EXP. BR.
104	CEILING	EXP. BR.	EXP. BR.
105	CEILING	EXP. BR.	EXP. BR.
106	CEILING	EXP. BR.	EXP. BR.
107	CEILING	EXP. BR.	EXP. BR.
108	CEILING	EXP. BR.	EXP. BR.
109	CEILING	EXP. BR.	EXP. BR.
110	CEILING	EXP. BR.	EXP. BR.

CONCRETE
 MASONRY UNITS EXPOSED

ROOM SCHEDULE		
ROOM NO.	FINISH	DESCRIPTION
1	A-A	ATL.
2	B-B	ATL.
3	C-C	ATL.
4	D-D	ATL.
5	E-E	ATL.
6	F-F	ATL.
7	G-G	ATL.
8	H-H	ATL.
9	I-I	ATL.
10	J-J	ATL.

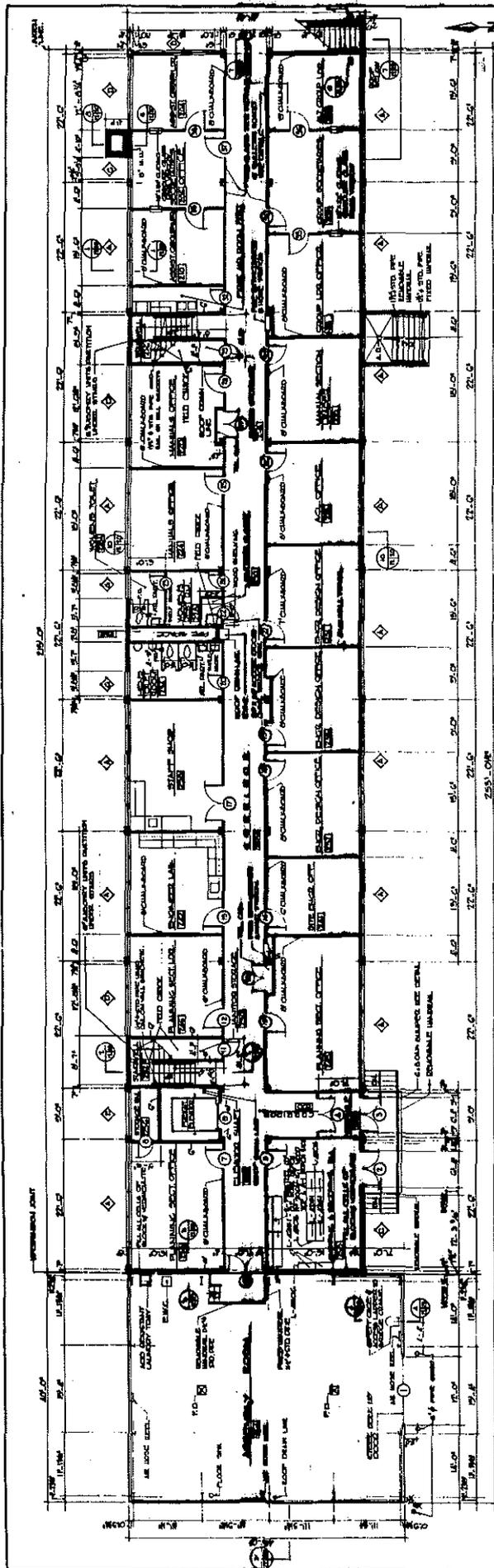
SCALE: 1/4" = 1'-0"

AS CONTRACTED DRAWING
 CONTRACT NO. AT-58-2-47
 DATE: 10/15/54
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

AS BUILT DRAWING

NO.	DATE	DESCRIPTION
1	10/15/54	ISSUED FOR CONSTRUCTION
2	11/15/54	AS BUILT DRAWING

ENGINEER: L. LABORATORY BUILDING
 ARCHITECT: [Firm Name]
 U.S. ATOMIC ENERGY COMMISSION
 1000 G STREET, N.W.
 WASHINGTON, D.C.



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

AS CONTRACTED DRAWING
CONTRACT NO. AT-113-RAT
DATE: MARCH 1964
SUBMITTED BY: [Signature]
RECOMMENDED BY: [Signature]
APPROVED BY: [Signature]

- ABBREVIATIONS:
 ALT. - ALTERNATE
 B.M. - BENCHMARK
 F.D. - FLOOR FINISH
 L.O. - LEAD LINE
 L.A. - LINES AND ANNOTATIONS
 C. - CENTER
 O. - OFFICE

ROOM NO.	FLOOR	NAME	WALLS	CEILING	FINISHES
101	2	DOCK	AL	AL	AL
102	2	DOCK	AL	AL	AL
103	2	DOCK	AL	AL	AL
104	2	DOCK	AL	AL	AL
105	2	DOCK	AL	AL	AL
106	2	DOCK	AL	AL	AL
107	2	DOCK	AL	AL	AL
108	2	DOCK	AL	AL	AL
109	2	DOCK	AL	AL	AL
110	2	DOCK	AL	AL	AL
111	2	DOCK	AL	AL	AL
112	2	DOCK	AL	AL	AL
113	2	DOCK	AL	AL	AL
114	2	DOCK	AL	AL	AL
115	2	DOCK	AL	AL	AL
116	2	DOCK	AL	AL	AL
117	2	DOCK	AL	AL	AL
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120	2	DOCK	AL	AL	AL
121	2	DOCK	AL	AL	AL
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130	2	DOCK	AL	AL	AL
131	2	DOCK	AL	AL	AL
132	2	DOCK	AL	AL	AL
133	2	DOCK	AL	AL	AL
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146	2	DOCK	AL	AL	AL
147	2	DOCK	AL	AL	AL
148	2	DOCK	AL	AL	AL
149	2	DOCK	AL	AL	AL
150	2	DOCK	AL	AL	AL
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155	2	DOCK	AL	AL	AL
156	2	DOCK	AL	AL	AL
157	2	DOCK	AL	AL	AL
158	2	DOCK	AL	AL	AL
159	2	DOCK	AL	AL	AL
160	2	DOCK	AL	AL	AL
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163	2	DOCK	AL	AL	AL
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167	2	DOCK	AL	AL	AL
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194	2	DOCK	AL	AL	AL
195	2	DOCK	AL	AL	AL
196	2	DOCK	AL	AL	AL
197	2	DOCK	AL	AL	AL
198	2	DOCK	AL	AL	AL
199	2	DOCK	AL	AL	AL
200	2	DOCK	AL	AL	AL

ROOM NO.	FLOOR	NAME	WALLS	CEILING	FINISHES
201	2	DOCK	AL	AL	AL
202	2	DOCK	AL	AL	AL
203	2	DOCK	AL	AL	AL
204	2	DOCK	AL	AL	AL
205	2	DOCK	AL	AL	AL
206	2	DOCK	AL	AL	AL
207	2	DOCK	AL	AL	AL
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297	2	DOCK	AL	AL	AL
298	2	DOCK	AL	AL	AL
299	2	DOCK	AL	AL	AL
300	2	DOCK	AL	AL	AL

NOTES:
 1. EACH DIMENSION IS TO FACE UNLESS NOTED OTHERWISE.
 2. ALL DIMENSIONS ARE IN FEET AND INCHES.
 3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 4. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 5. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

U.S. ATOMIC ENERGY COMMISSION
 ENGINEERING & LABORATORY BUILDING
 ARCHITECTURAL
 SECOND FLOOR PLAN & SCHEDULES
 BUILDING 9-30
 SCALE: 1/8" = 1'-0"

REVISIONS:
 NO. DATE BY

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]
 APPROVED BY: [Signature]

LAB. JOB. - 1919
 L.A.L. FILE NO. 944-23856

NO.	DATE	REVISIONS
1	12/15/50	AS BUILT
2	1/10/51	REVISIONS
3	1/10/51	REVISIONS
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48	1/10/51	REVISIONS
49	1/10/51	REVISIONS
50	1/10/51	REVISIONS

U. S. ATOMIC ENERGY COMMISSION
 ENGINEERING & ARCHITECTURAL
 BUILDING #30
 THIRD FLOOR PLAN & SCHEDULES
 TA-41
 L.A.S.L. INC. NO. ENG-23857
 LA-C-115
 13 50

AS BUILT DRAWING
 CONTRACT NO. 115-1110
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 FOR OFFICIAL USE ONLY

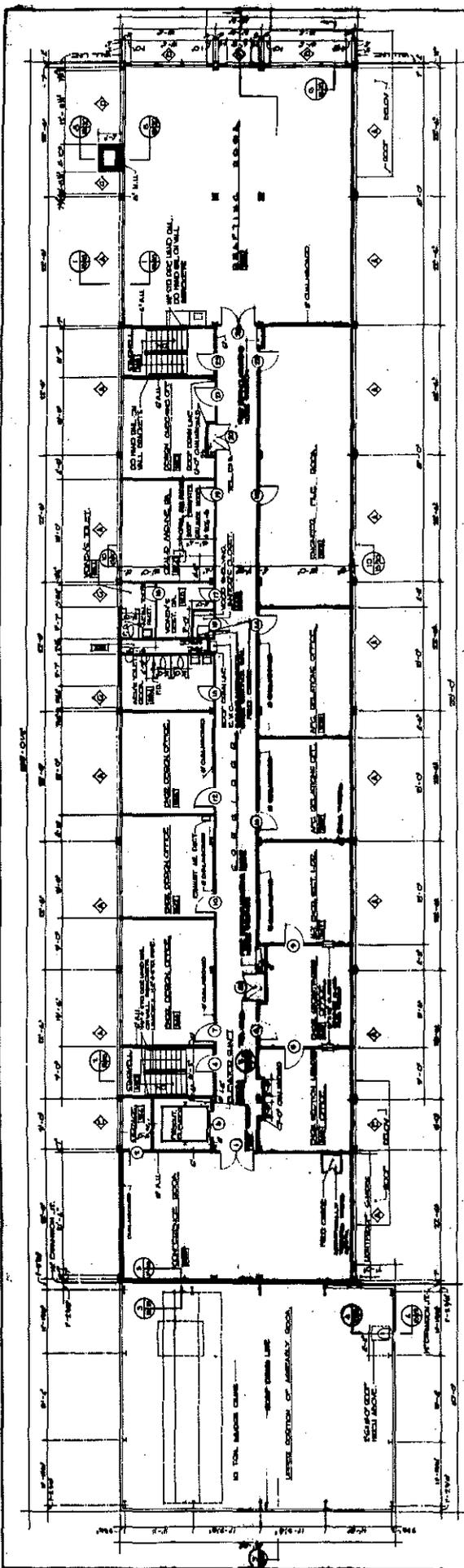
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 FOR OFFICIAL USE ONLY

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 FOR OFFICIAL USE ONLY

AS BUILT DRAWING
 CONTRACT NO. 115-1110
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 FOR OFFICIAL USE ONLY

AS BUILT DRAWING
 CONTRACT NO. 115-1110
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 FOR OFFICIAL USE ONLY

AS BUILT DRAWING
 CONTRACT NO. 115-1110
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 FOR OFFICIAL USE ONLY



THIRD FLOOR PLAN

DOOR SCHEDULE

NO.	TYPE	FINISH	FRAME	GLASS	SWITCH	LOCK	DOOR	NO.
1	U	G-G						20
2	U	G-G						21
3	U	G-G						22
4	U	G-G						23
5	U	G-G						24
6	U	G-G						25
7	U	G-G						26
8	U	G-G						27
9	U	G-G						28
10	U	G-G						29
11	U	G-G						30
12	U	G-G						31
13	U	G-G						32
14	U	G-G						33
15	U	G-G						34
16	U	G-G						35
17	U	G-G						36
18	U	G-G						37
19	U	G-G						38
20	U	G-G						39
21	U	G-G						40
22	U	G-G						41
23	U	G-G						42
24	U	G-G						43
25	U	G-G						44
26	U	G-G						45
27	U	G-G						46
28	U	G-G						47
29	U	G-G						48
30	U	G-G						49
31	U	G-G						50
32	U	G-G						51
33	U	G-G						52
34	U	G-G						53
35	U	G-G						54
36	U	G-G						55
37	U	G-G						56
38	U	G-G						57
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40	U	G-G						59
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45	U	G-G						64
46	U	G-G						65
47	U	G-G						66
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49	U	G-G						68
50	U	G-G						69
51	U	G-G						70
52	U	G-G						71
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64	U	G-G						83
65	U	G-G						84
66	U	G-G						85
67	U	G-G						86
68	U	G-G						87
69	U	G-G						88
70	U	G-G						89
71	U	G-G						90
72	U	G-G						91
73	U	G-G						92
74	U	G-G						93
75	U	G-G						94
76	U	G-G						95
77	U	G-G						96
78	U	G-G						97
79	U	G-G						98
80	U	G-G						99
81	U	G-G						100

ROOM FINISH SCHEDULE

ROOM NO.	NAME	FLOOR	FINISH	WALLS	CEILING	DOORS	GLASS	STAIRS
310	CONFERENCE ROOM	A	V	V				
311	CONFERENCE ROOM	A	V	V				
312	CONFERENCE ROOM	A	V	V				
313	CONFERENCE ROOM	A	V	V				
314	CONFERENCE ROOM	A	V	V				
315	CONFERENCE ROOM	A	V	V				
316	CONFERENCE ROOM	A	V	V				
317	CONFERENCE ROOM	A	V	V				
318	CONFERENCE ROOM	A	V	V				
319	CONFERENCE ROOM	A	V	V				
320	CONFERENCE ROOM	A	V	V				
321	CONFERENCE ROOM	A	V	V				
322	CONFERENCE ROOM	A	V	V				
323	CONFERENCE ROOM	A	V	V				
324	CONFERENCE ROOM	A	V	V				
325	CONFERENCE ROOM	A	V	V				
326	CONFERENCE ROOM	A	V	V				
327	CONFERENCE ROOM	A	V	V				
328	CONFERENCE ROOM	A	V	V				
329	CONFERENCE ROOM	A	V	V				
330	CONFERENCE ROOM	A	V	V				
331	CONFERENCE ROOM	A	V	V				
332	CONFERENCE ROOM	A	V	V				
333	CONFERENCE ROOM	A	V	V				
334	CONFERENCE ROOM	A	V	V				
335	CONFERENCE ROOM	A	V	V				
336	CONFERENCE ROOM	A	V	V				
337	CONFERENCE ROOM	A	V	V				
338	CONFERENCE ROOM	A	V	V				
339	CONFERENCE ROOM	A	V	V				
340	CONFERENCE ROOM	A	V	V				
341	CONFERENCE ROOM	A	V	V				
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348	CONFERENCE ROOM	A	V	V				
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350	CONFERENCE ROOM	A	V	V				
351	CONFERENCE ROOM	A	V	V				
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353	CONFERENCE ROOM	A	V	V				
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355	CONFERENCE ROOM	A	V	V				
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360	CONFERENCE ROOM	A	V	V				
361	CONFERENCE ROOM	A	V	V				
362	CONFERENCE ROOM	A	V	V				
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364	CONFERENCE ROOM	A	V	V				
365	CONFERENCE ROOM	A	V	V				
366	CONFERENCE ROOM	A	V	V				
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396	CONFERENCE ROOM	A	V	V				
397	CONFERENCE ROOM	A	V	V				
398	CONFERENCE ROOM	A	V	V				
399	CONFERENCE ROOM	A	V	V				
400	CONFERENCE ROOM	A	V	V				

A.T. - GRANITE TILE.
 A.U.E. - MARBLE INTERIORS.
 V.A. - WALL ASBESTOS.
 G. - CONCRETE.
 G.T. - GUMBY T.L.
 C.P. - UNFINISHED OF ROOF DECK ENDOOR.

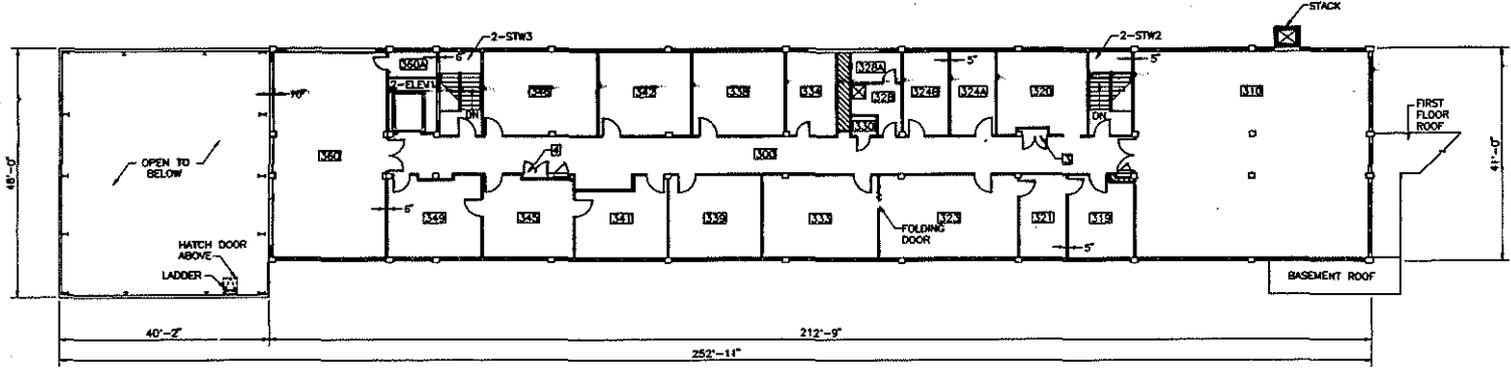
ROOM INFORMATION CHART					
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
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20	217	214	243	218	242
21	170	215	244	219	242
22	211	216	245	220	242
23	211	217	246	221	242
24	211	218	247	222	242
25	211	219	248	223	242
26	211	220	249	224	242
27	211	221	250	225	242
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251	211	445	474	449	

ROOM INFORMATION CHART					
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
200	1117	208A	51	215	277
201	1700	209	624	216	48
202	281	210	181	217	100
203	153	211	281	218	140
204	137	212	281	219	42
205	126	213	281		

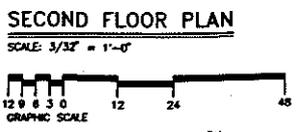
TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 8,388
 GROSS SQUARE FOOTAGE (THIS SHEET) = 8,774
 TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 22,012
 GROSS SQUARE FOOTAGE (BUILDING) = 22,730

LEGEND

	CONCRETE
	CONCRETE BLOCK
	LOUVER
	UTILITY SPACE
	WINDOW
	WOOD OR METAL STUD COLUMN



- NOTES**
1. ALL EXTERIOR WALLS ARE 6" THICK UNLESS OTHERWISE NOTED.
 2. ALL INTERIOR WALLS ARE 4" THICK UNLESS OTHERWISE NOTED.
 3. REFERENCE DRAWING ENG-R3146.
 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 ENCLCING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENINSULAS, WALLS, AND ENCLOSED PASSAGES.
 6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.



MP. NO.	DATE	CLASS. REV.	DESCRIPTION	OWN.	CHKD.	SLAB.	APP.
JOHNSON CONTROLS							
AS-BUILT RECORD FLOOR PLAN OFFICE BUILDING				DRWN.	ATTACHED		
ARCH: SECOND FLOOR PLAN				REVISED	BY: [Signature]		
				CHECKED	BY: [Signature]		
BLDG. 30		TA-41		DATE		12-14-85	
SUBMITTED		APPROVED FOR RELEASE		BY: [Signature]		DATE: 2/5/86	
Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545		SHEET		3 OF 3	
CLASSIFICATION		REVISOR T. DUDROW		DATE		1-2-86	
PROJECT ID		7556		DRAWING NO.		AB568	

LANL TA Building # 41-0053

Camera 984242

Frame #s DCP_1082 thru DCP-1085, DCP_1148 thru DCP_1153

Surveyor(s) J. Ronquillo/K. Towery

Date 02/10/2002

Los Alamos National Laboratory CRMT Historic Building Survey Form

Building Name Guard Station UTM's easting 382855 northing 3970833 zone 13

Legal Description: Map Guaje Mountain 7.5 Minute Quad tnspl 19N range 6E sec 13

Current Use/ Function This facility is currently unmanned but houses the security palm reader controlling access into Bldg 4 and Bldg. 30 Original Use/ Function Guard Station

Date (estimated) Date (actual) 1986 Property Type Security

Type of Construction

Pre-Fabricated Metal [] Steel Frame [] Wood Frame [x] CMU [] Reinforced Concrete []

Other Type of Construction The exterior is extremely secure, with 1/2" steel plate with welded connections and cut openings for windows and gun ports. The roof is steel plate with steel framing members. # 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 1/2" steel plate with welded connections.

Exterior Treatment (painted, stuccoed, etc) Painted steel plate

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 Flat painted steel

Degree of Pitch/ Slope Slight

Roof Materials Corrugated Metal [] Rolled Asphalt [] Asbestos Shingles [] 4-Ply Built Up [] Other Roof Materials Steel plate

Window Type Casement [] Single Hung Sash [] Double Hung Sash [] Fixed Window [] Other Window Type Bullet proof and appears

to be approx. 1" thick.

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:

The doors are metal, probably solid core security doors.

Interior Wall

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

Ceiling

Drop Ceiling

Interior Comments (Equipment, etc)

Reinforced concrete

Degree of Remodeling

Minor

Condition

Excellent Good Fair Deteriorating Contaminated Burned

Associated Building

If yes, list building names and #s:

A steel framed canopy connects Bldg. 53 and provides cover between this building and Bldg. 30.

Integrity

Good

Significance

Of Interest (associated with LANL/DOE themes)

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: R and D Projects

LANL Themes

Weapons R and D, Testing, and Stockpile Support Super Computing Reactor Technology

Biomedical/Health Physics Strategic and Supporting Research Environment/Waste Management
Administration and Social History Architectural History

Site Plan Available

Recommendations/ Additional Comments

Architectural Features (elevations)

The architectural style is non-identifiable, but is consistent with area buildings and can be classified as industrial. The exterior is painted steel plate with several window cut outs as well as gun ports located below the window openings.

Total sq ft 310 Gross

Architect/ Builder

The Zia Company

Alterations

List of Drawings (Cntrl + Enter for para break)

ENG-C44523
Safeguards and Security Upgrade
Phase I Entry Station
Arch: Floor Plan/Door Details/Walls
8-21-1985



TA-41-53 South Elevation



TA-41-53 West Elevation



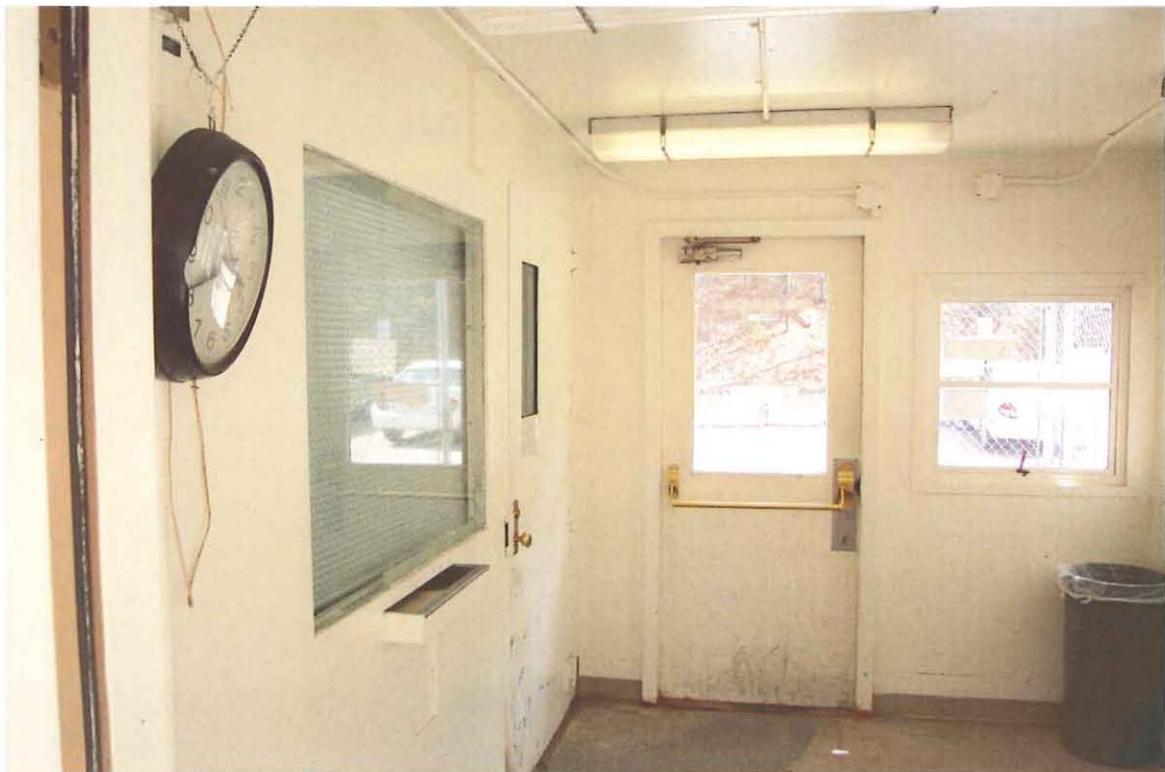
TA-41-53 North Elevation



TA-41-53 East Elevation



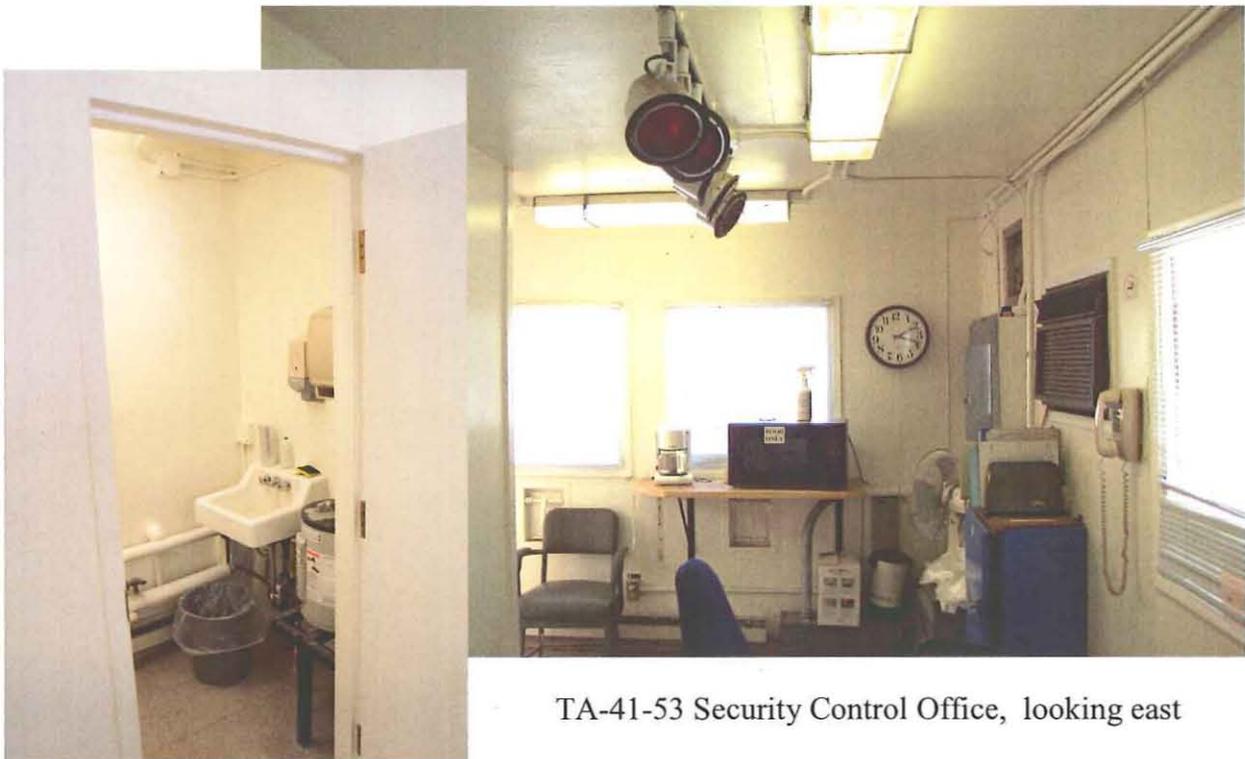
TA-41-53 Foyer, looking north



TA-41-53 Foyer, looking south



TA-41-53 Security Control Office, looking west



TA-41-53 Security Control Office, looking east

TA-41-53 Restroom

