

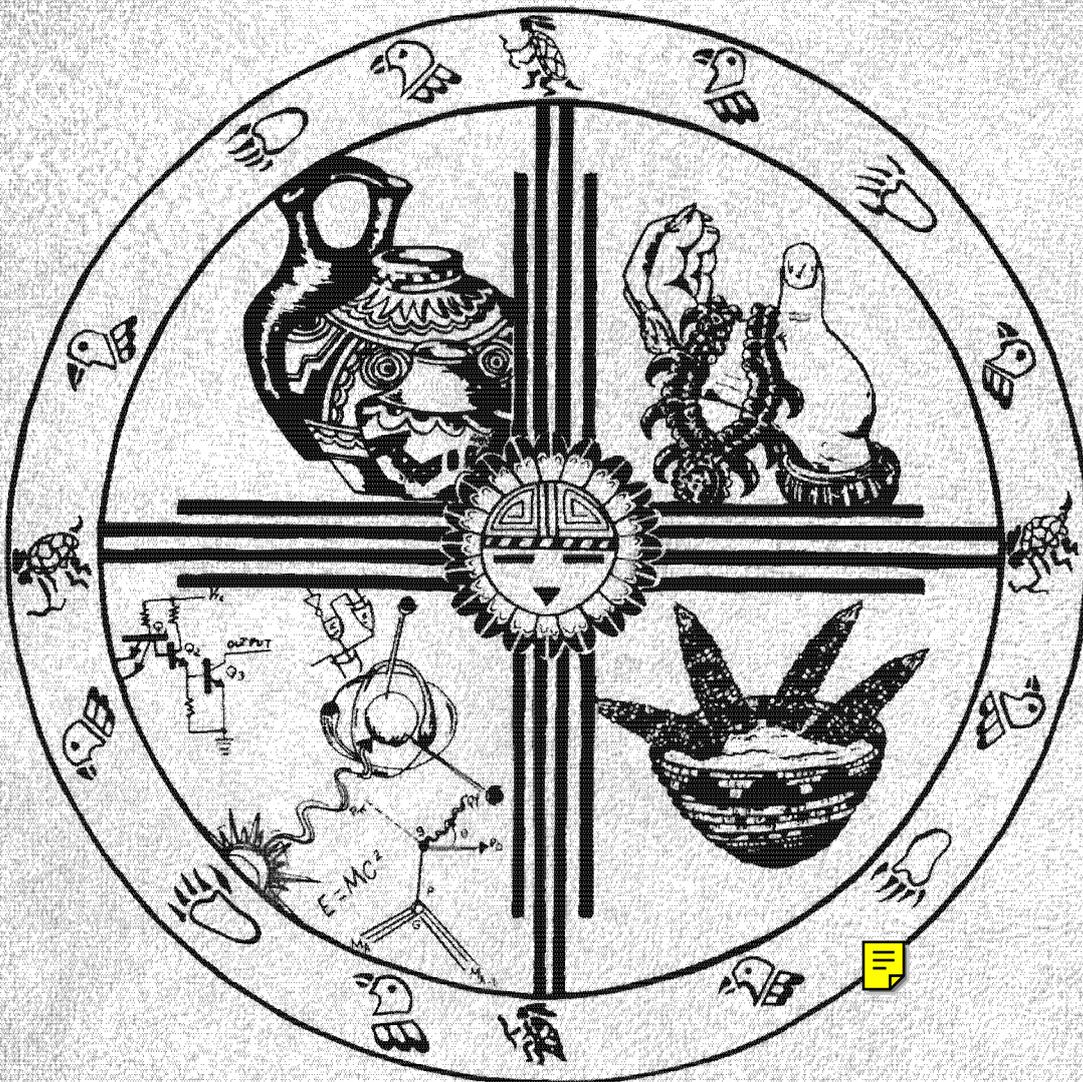


**Decontamination and Decommissioning
of Technical Area 41**

Historic Building Survey Report No. 204

Los Alamos National Laboratory

LOS ALAMOS NATIONAL LABORATORY
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LA-UR-02-2663

**Decontamination and Decommissioning
of Technical Area 41**

Historic Building Survey Report No. 204

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**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
Risk Reduction and Environmental Stewardship Division
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).

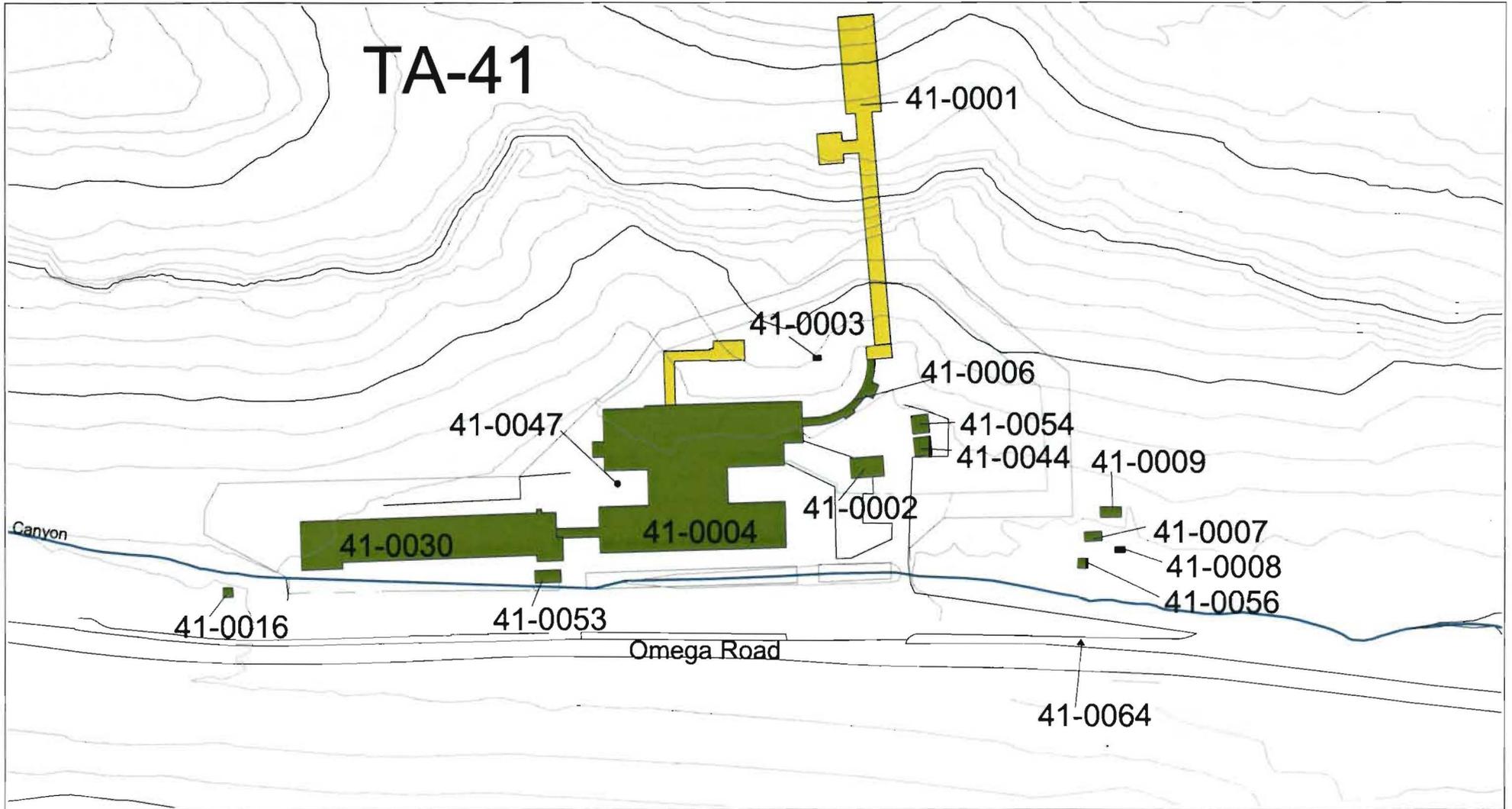
The proposed decontamination and decommissioning (D&D) action (detailed below) stems from an increased risk of severe flooding in the aftermath of the Cerro Grande fire and will result in the demolition, modification, or abandonment of all properties at TA-41: TA-41-1, -2, -3, -4, -6, -7, -8, -9, -16, -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

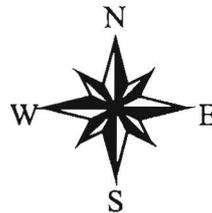


Guaje Mountain Quad

Los Alamos
National Laboratory

Cultural Resources Management Team
RRES-ECO (Ecology Group)

TA-41



Map 1

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

1:1750

60 0 60 120 180 240 Feet



20 0 20 40 60 Meters



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.

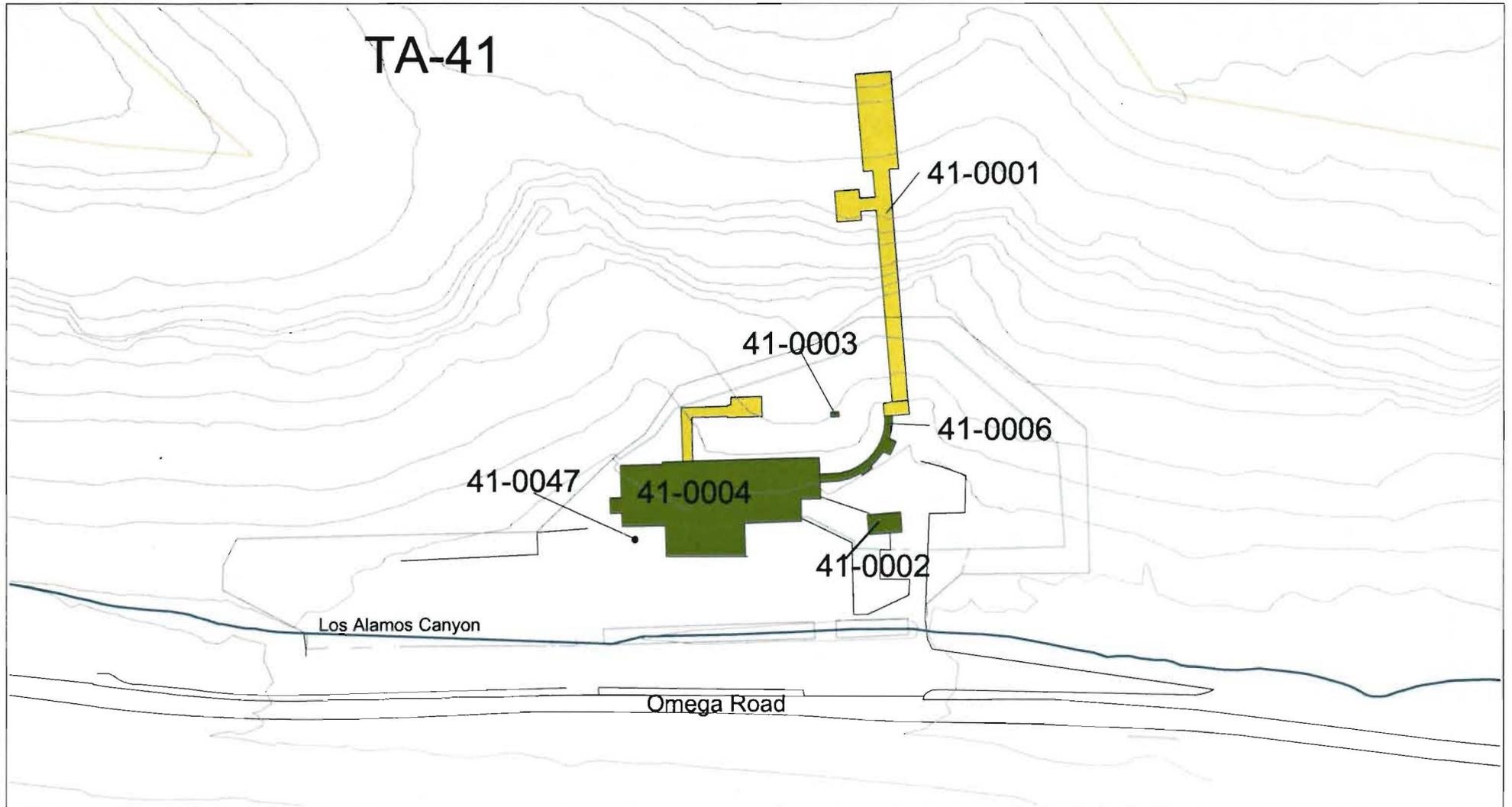
Three Cold War-era properties at TA-41 are located further away from the potential flood zone and will not be demolished. These facilities are historically significant and are slated for preservation and future reuse. The high bay and rear laboratory portion of TA-41-4 will be retained along with the 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

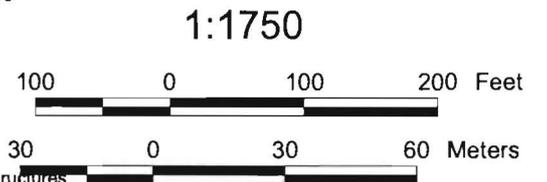
Los Alamos
National Laboratory

*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
- Indfence
- 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, perkins, 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).

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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.

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U.S. Department of Energy

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Appendix A
Maps

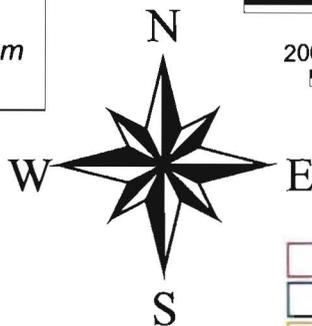
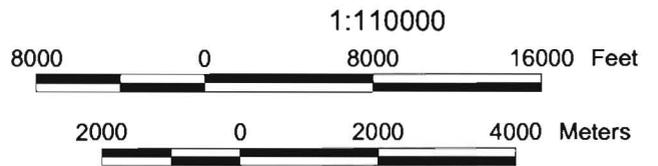


**Los Alamos
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*Cultural Resources Management Team
RRES-ECO Ecology Group*

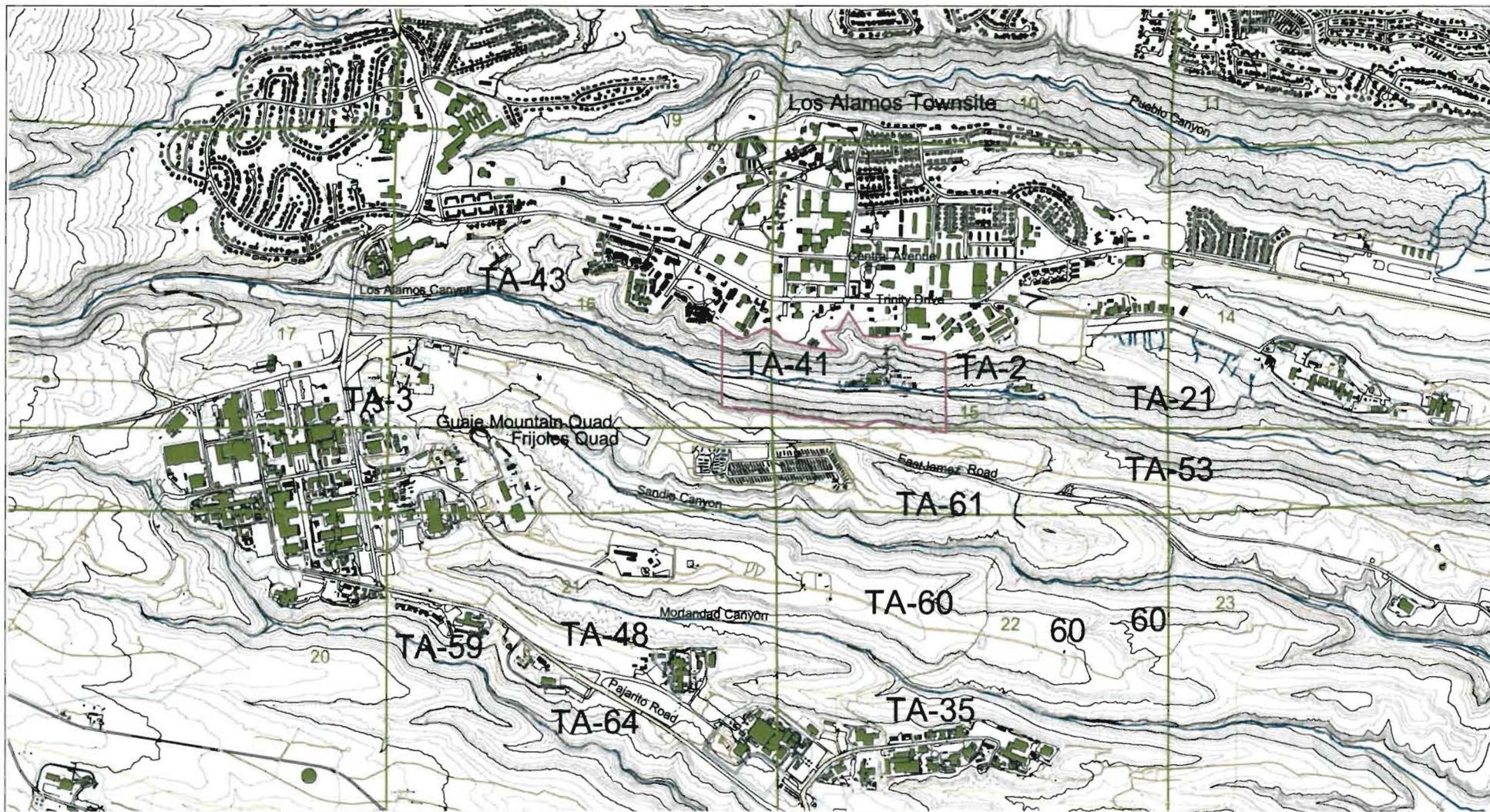
**Los Alamos
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TA-41



- Technical Area 41
- Los Alamos National Laboratory
- Techarea
- Roads
- Roaddirt

Map A1



Los Alamos National Laboratory

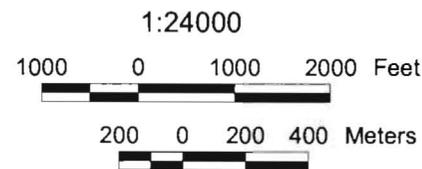
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RRES-ECO Ecology Group

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

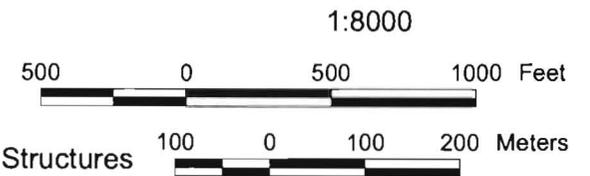
*Cultural Resources Management Team
RRES-ECO Ecology Group*

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



Guaje Mountain Quad

Los Alamos National Laboratory

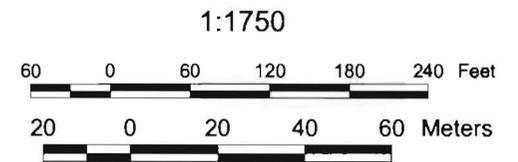
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RRES-ECO Ecology Group

TA-41

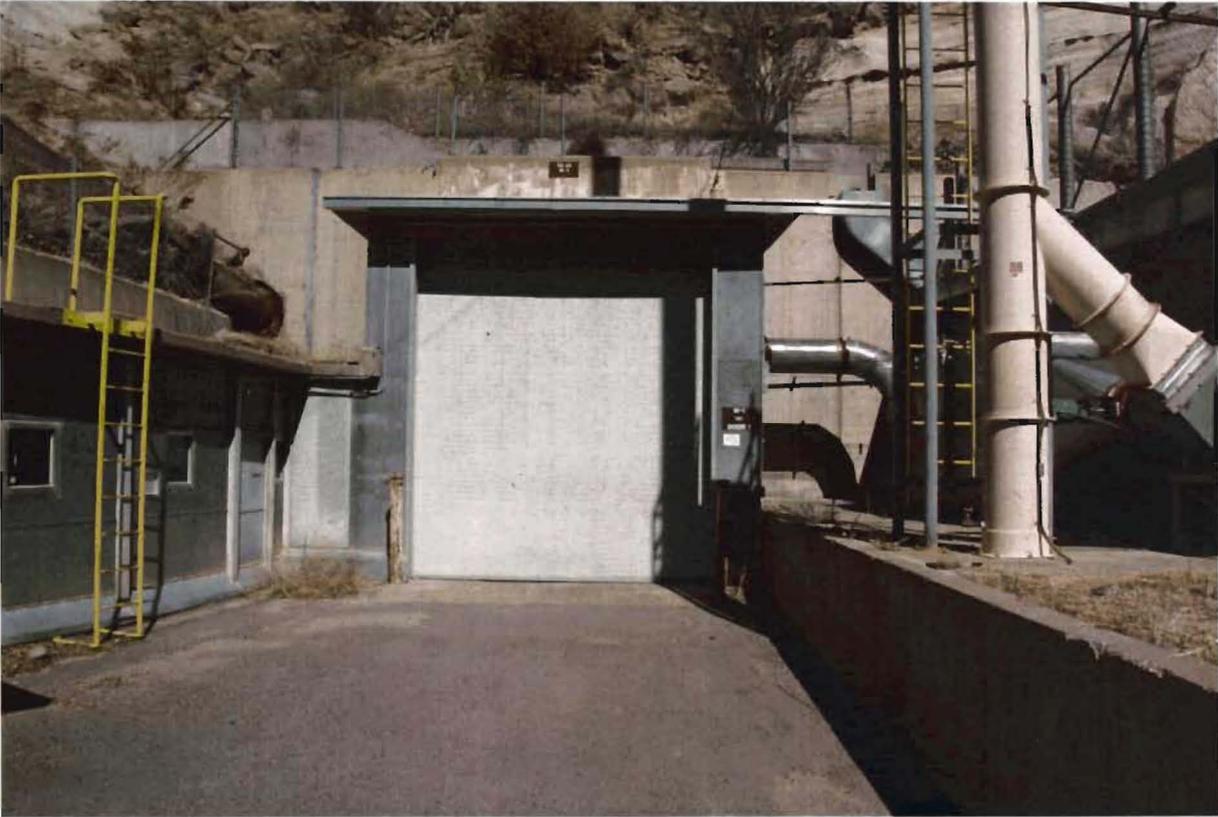


Map A5

 Underground Structures



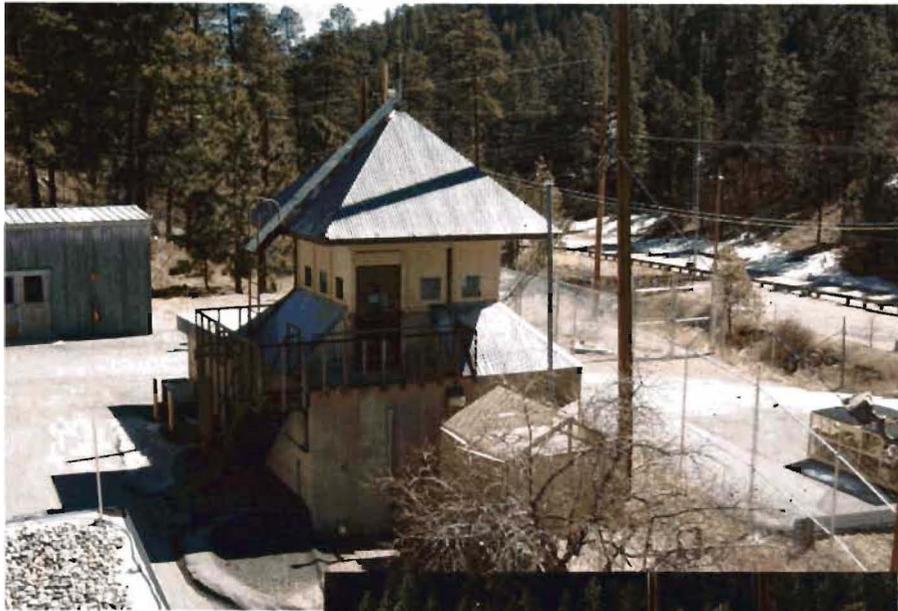
Appendix B
Photographs and Drawings



TA-41-1 Vault, South Elevation



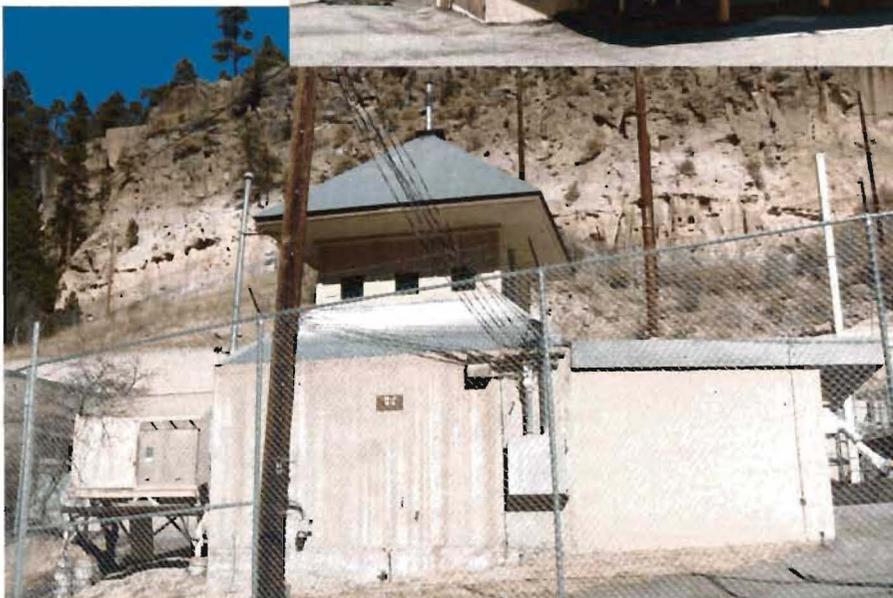
TA-41-3 Blower House Air Intake, South Elevation



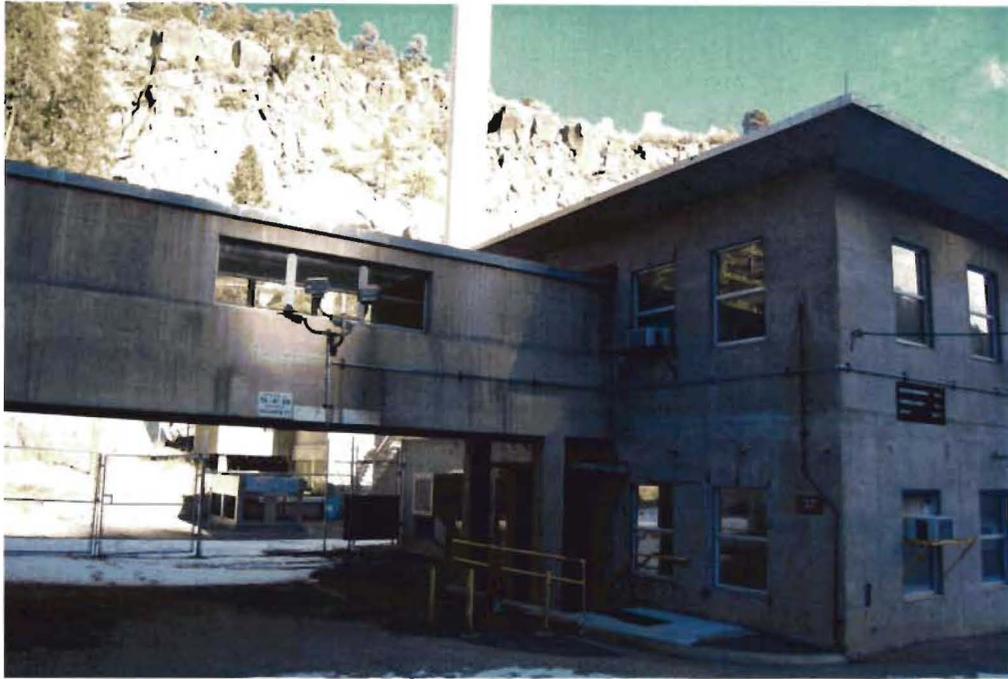
TA-41-2
Guard Station
North and West Elevations



TA-41-2
Guard Station
East and North Elevations



TA-41-2
Guard Station
South Elevation

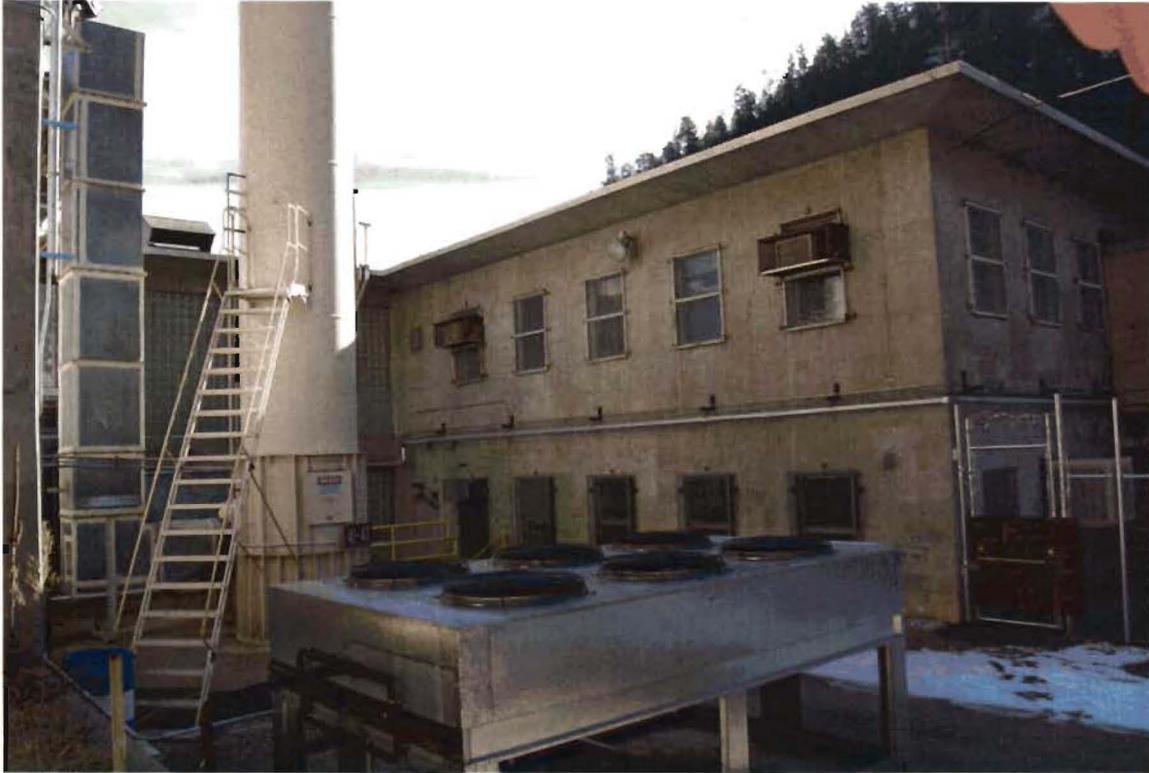


TA-41-4
Laboratory and
Office Building,
West and South
Elevations

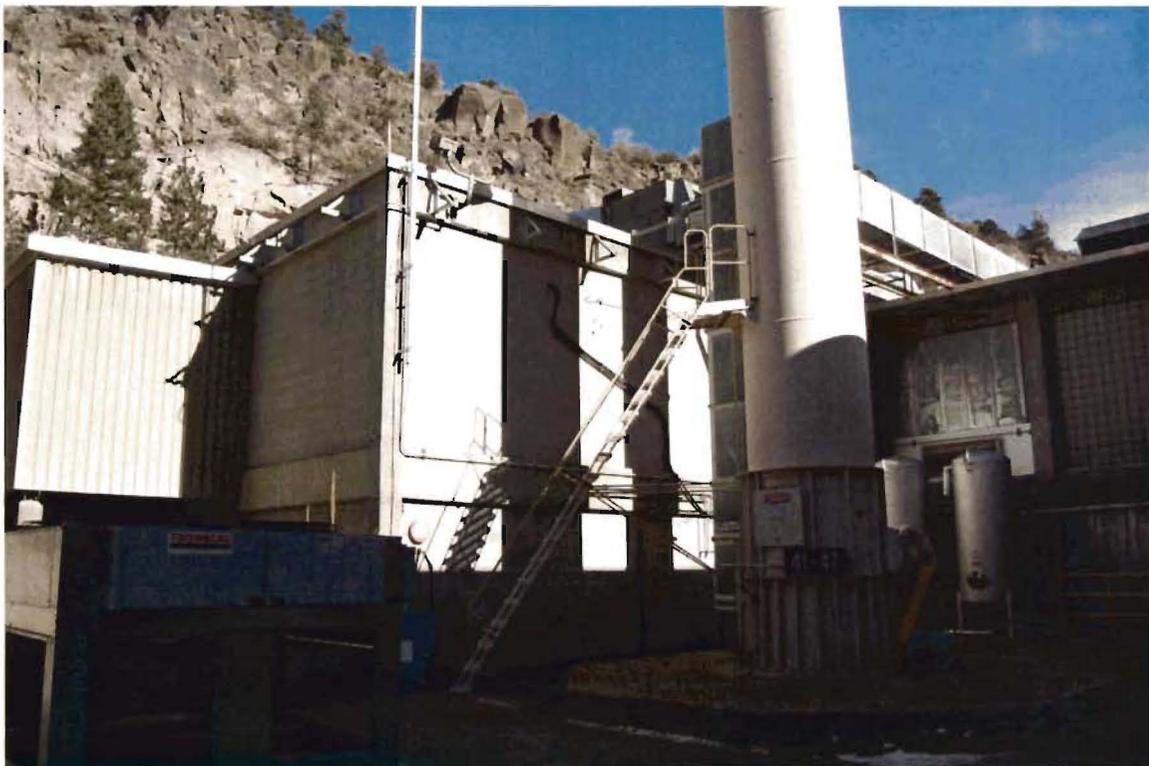
TA-41-4
Laboratory and
Office Building,
South Elevation



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



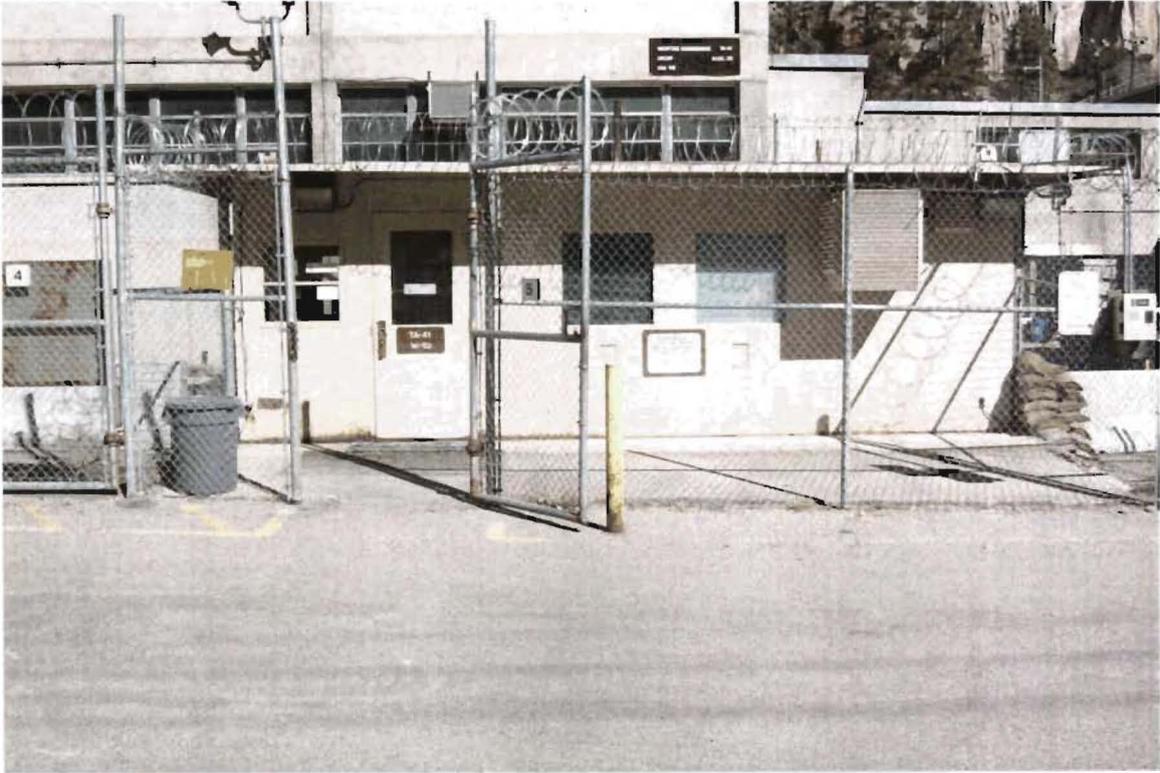
TA-41-30
Office Building
and High Bay,
South Elevation



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



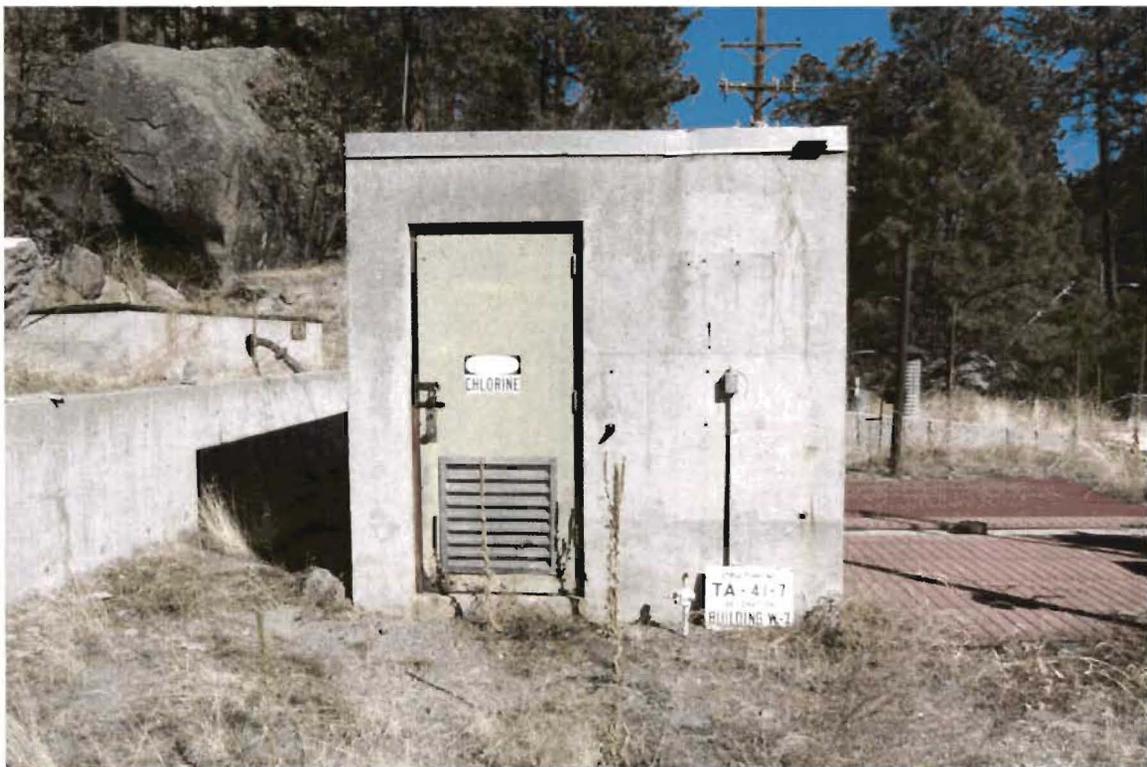
TA-41-47
Exhaust Stack

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



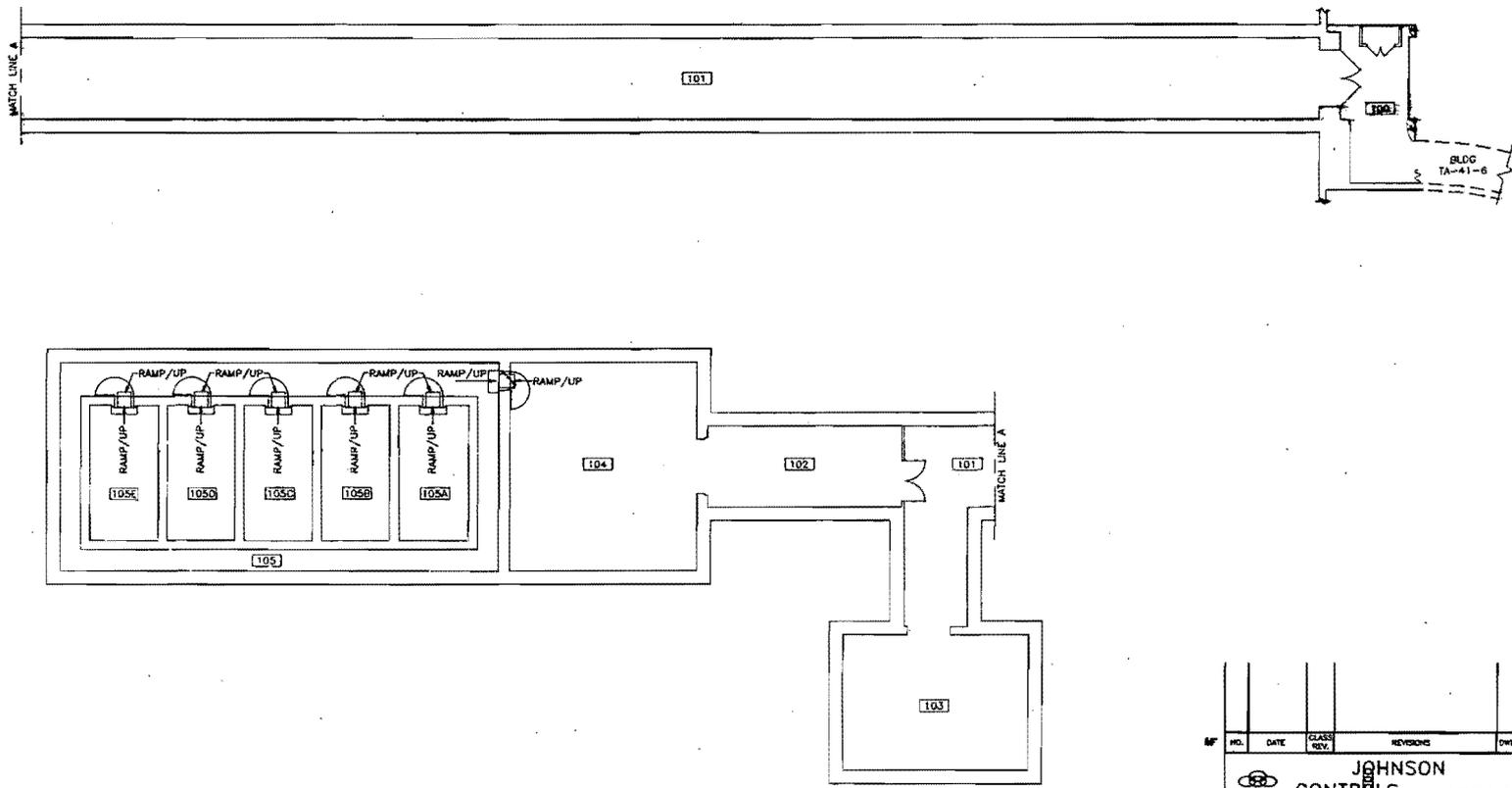
TA-41-9 Sanitary Sewer Drying Beds, South Elevation



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

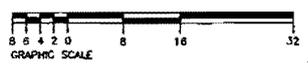


TA-41-64 Meteorological Tower

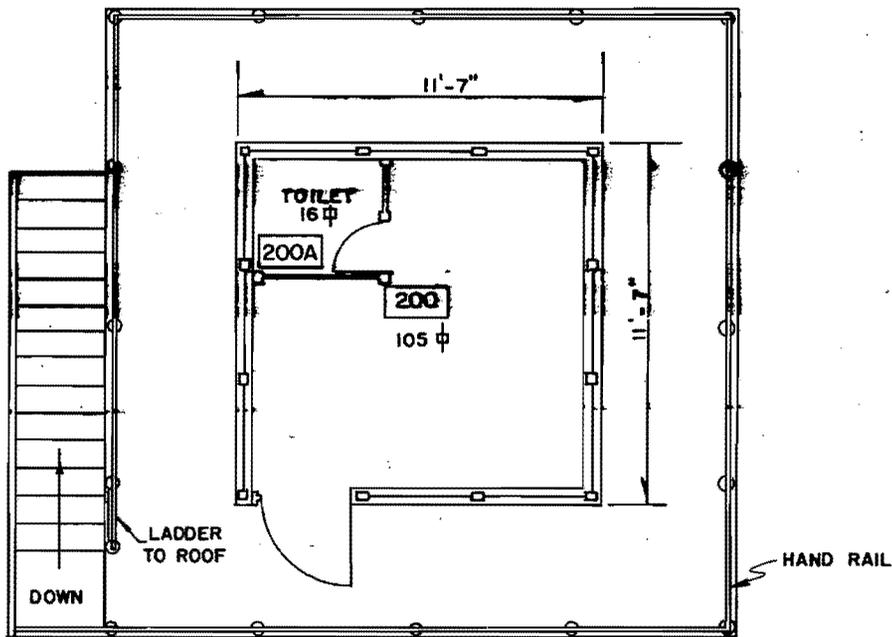


FIRST FLOOR PLAN

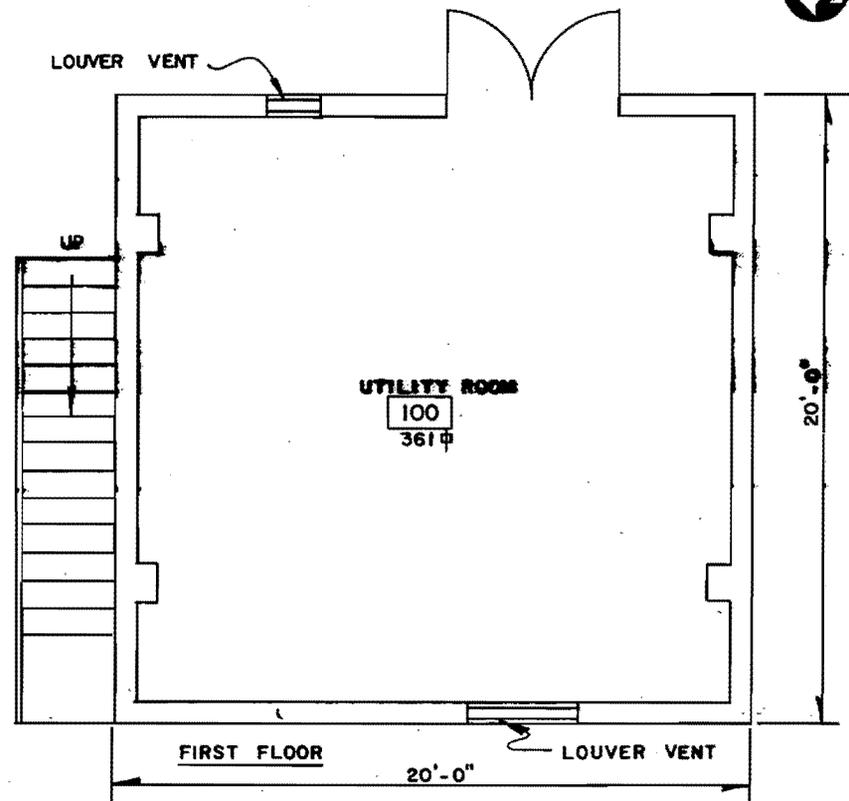
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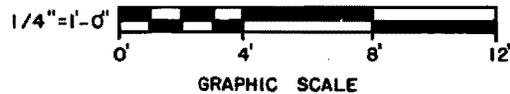
NO.	DATE	CLASS. REV.	REVISIONS	DWN	VER	CHK	REL	SLD	REC	APP
			JOHNSON CONTROLS							
			WORLD SERVICES INC.							
AS-BUILT RECORD FLOOR PLAN +										DRAWN C. SANDOVAL
UNDERGROUND VAULT										VERIFIED J. SANDOVAL
FIRST FLOOR PLAN										CHECKED M. SANDOVAL
BLDG. 1										RELEASED M. SANDOVAL
TA-41										DATE 03-31-93
SUBMITTED JERRY FORTE		REVISIONS #793 #794 #795 #796		REVISIONS #793 #794 #795 #796		REVISIONS #793 #794 #795 #796		REVISIONS #793 #794 #795 #796		SHEET 1 OF 1
Los Alamos										Los Alamos National Laboratory Los Alamos, New Mexico 87545
CLASSIFICATION: UNCLASSIFIED										REVIEWER: H. SALAZAR
PROJECT ID: 7556										DATE: 03-31-93
FIELD VERIFIED: 03-05-93										DRAWING NO.: AB111



SECOND FLOOR



FIRST FLOOR



TOTAL SQ. FT. 482

REV.	DATE	REVISION	BY	CHKD.	APR
2	2-2-84	REVISED TO STATUS OF 2-2-84	H&N	CH	
1	9-27-83	REDRAWN & REVISED TO STATUS OF 09/27/83	H&N	CH	

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. **U**

REVIEWER *[Signature]*

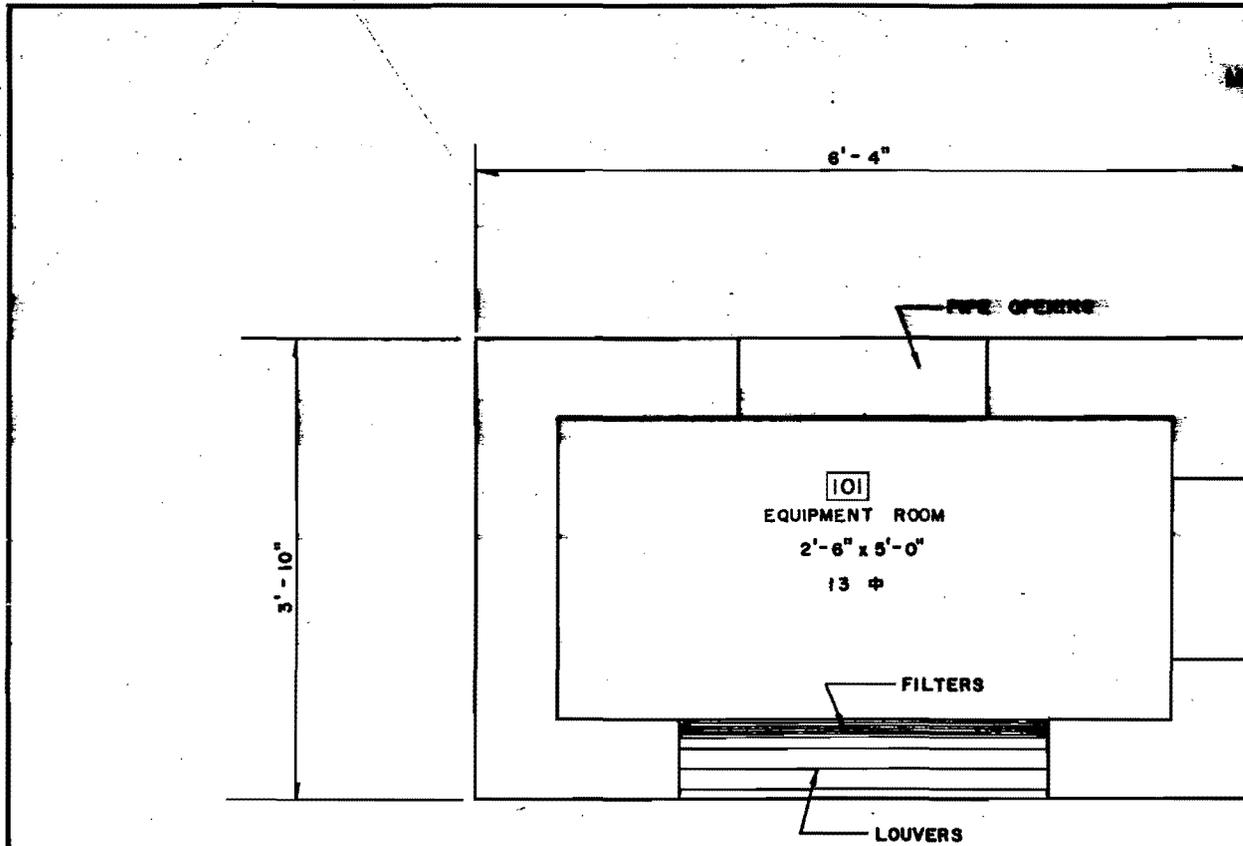
BLDG. W-2

TA-41

DATE **2-6-84**

SUBMITTED BY <i>[Signature]</i>	RECOMMENDED BY <i>[Signature]</i>	APPROVED BY <i>[Signature]</i>
DRAWN H&N	DATE 09/27/83	SHEET NO. 1 OF 1
CHECKED <i>[Signature]</i>	H&N	DRAWING NO. ENG-R3138

REC'D... LOGGED... TO VAULT *[Signature]*



NO.	DATE	REVISIONS	BY	CHKD	ENR	ENG.
1	9-16-65	REVISED TO STATUS OF 9-12-65	DRK	V	SR	YB

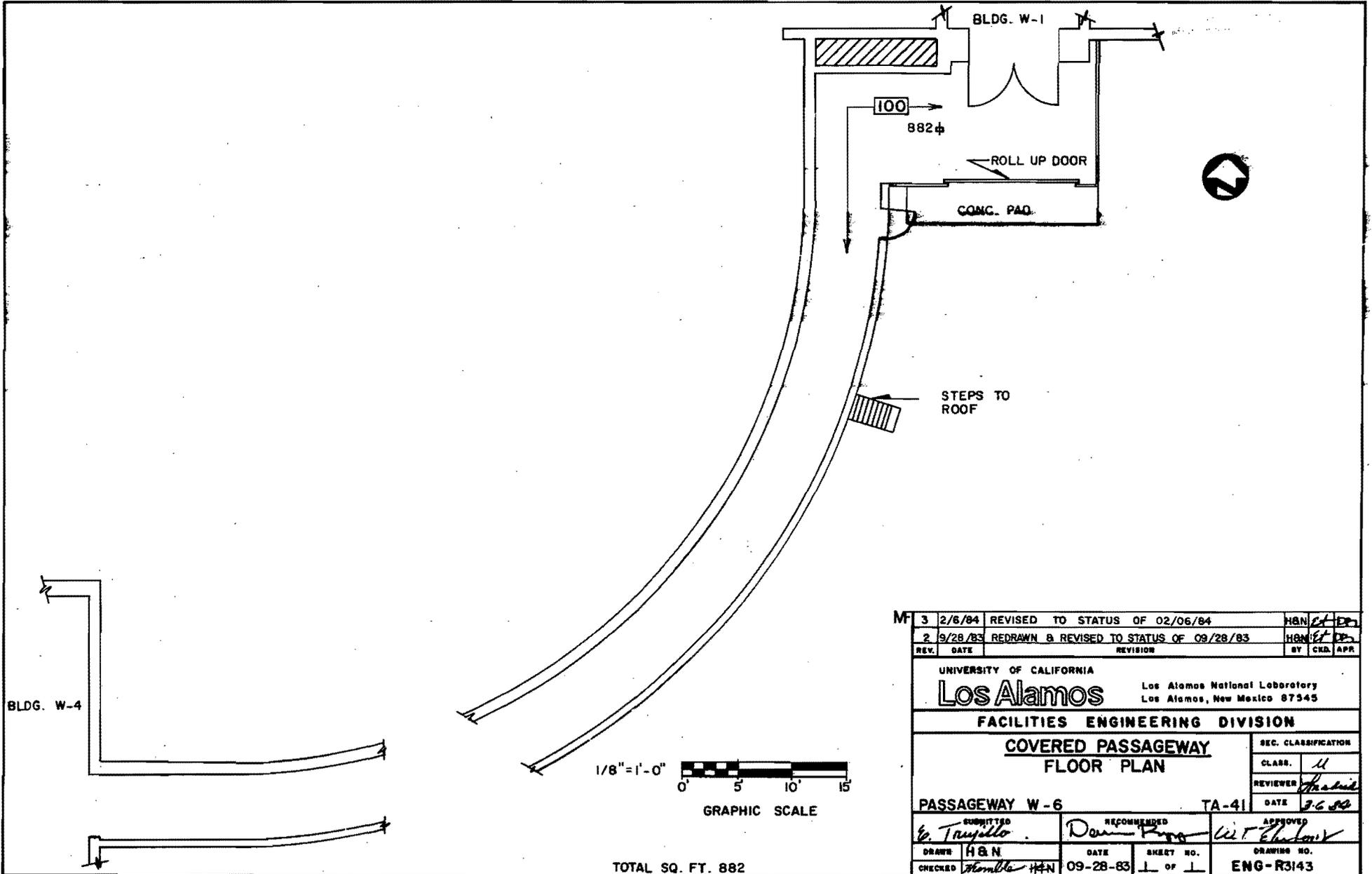
MF

3	2-6-84	REVISED TO STATUS OF 2-6-84	HGM	CT	DR
2	9-16-83	REVISED TO STATUS OF 9-16-83	HGM	CT	DR
REV.	DATE	REVISION	BY	CHKD.	APR.
UNIVERSITY OF CALIFORNIA Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545					
FACILITIES ENGINEERING DIVISION					
BLOWER HOUSE FLOOR PLAN				SEC. CLASSIFICATION	
				CLASS. 4	
				REVIEWER <i>W. H. ...</i>	
BLDG. W-3		TA-41		DATE 3-6-84	
DRAWN <i>Frank</i>		RECOMMENDED <i>Dave ...</i>		APPROVED <i>W. H. ...</i>	
CHECKED <i>Thomble HGM</i>	DATE 1-22-63	SHEET NO. 1 OF 1	DRAWING NO. ENG-R3377		

TOTAL 90. FT. 13

REC'D / LOGGED

REC'D / LOGGED / TO VAULT



TOTAL SQ. FT. 882

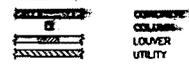
REV.	DATE	REVISION	BY	CHK.	APP.
3	2/6/84	REVISED TO STATUS OF 02/06/84	H&N	et	DP
2	9/28/83	REDRAWN & REVISED TO STATUS OF 09/28/83	H&N	et	DP
UNIVERSITY OF CALIFORNIA Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545					
FACILITIES ENGINEERING DIVISION					
COVERED PASSAGEWAY FLOOR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

REC'D..... LOGGED..... TO VAULT *[Signature]*

ROOM INFORMATION CHART					
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
BT	2277	UT	24		

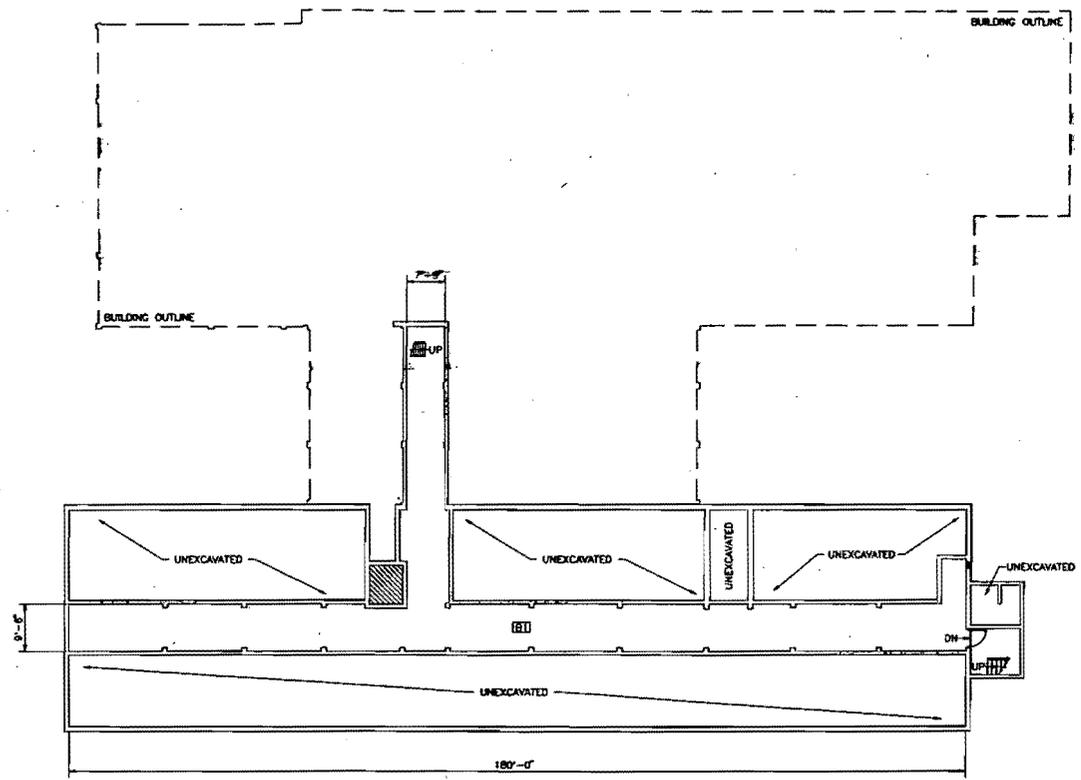
TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 2,278
 GROSS SQUARE FOOTAGE (THIS SHEET) = 2,668
 TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 37,434
 GROSS SQUARE FOOTAGE (BUILDING) = 40,565

LEGEND



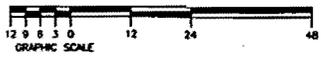
NOTES

- REFERENCE: DRAWINGS EDC-SFA-4-28.1 AND 403130.
- 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.
- 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, PENHOUSES, 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.
- DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.



BASEMENT FLOOR PLAN

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



NO	DATE	CLASS	DESCRIPTION	DRW	VER	CHKD	REL	SUB	REC	APP

JOHNSON CONTROLS WORLD SERVICES INC.

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

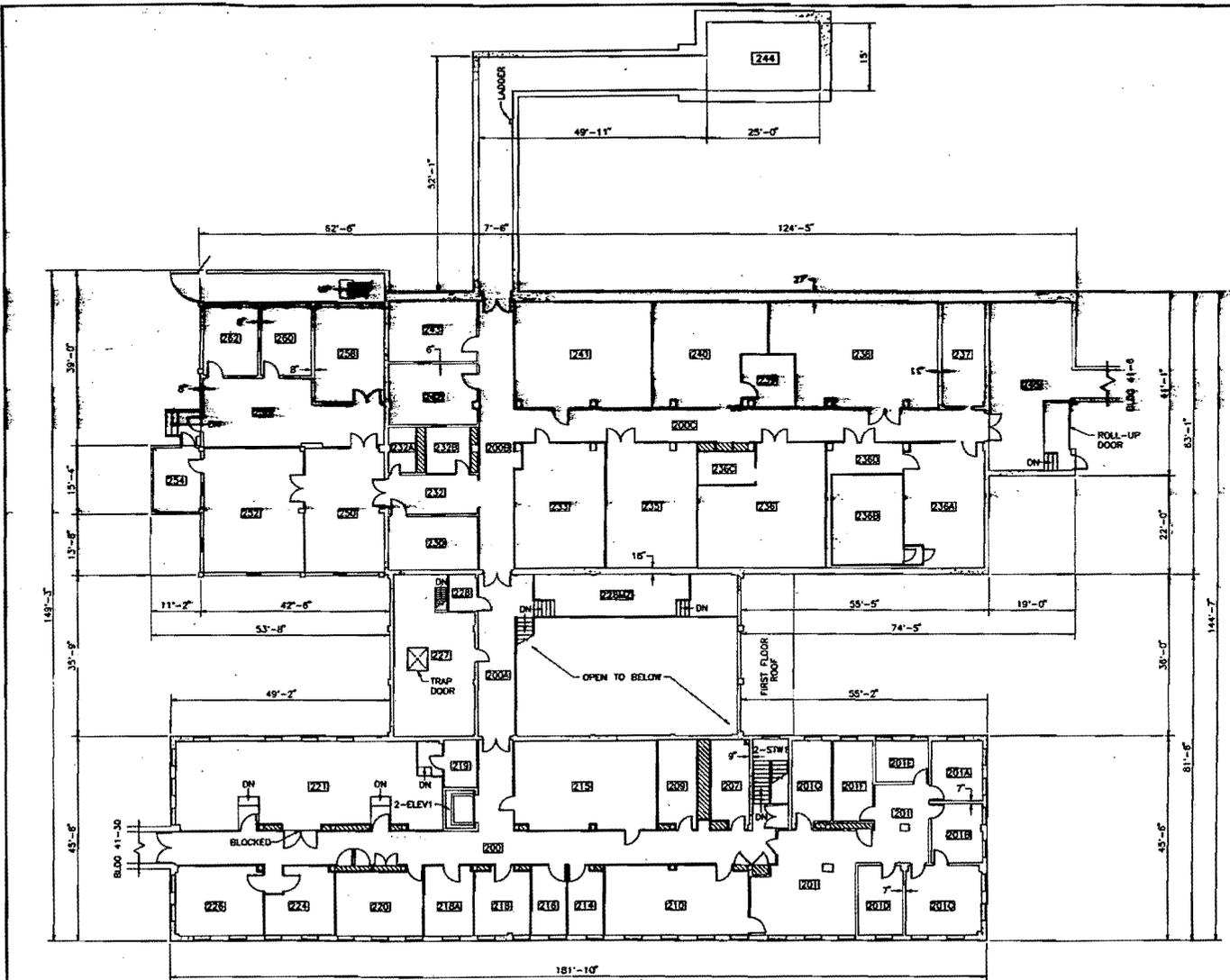
BLDG 04
 DRAWN: [Signature]
 CHECKED: [Signature]
 RELEASED: [Signature]

DATE: 02-13-93

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

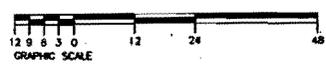
CLASSIFICATION: U
 PROJECT NO: 7556
 SHEET: 1 of 3
 DATE: 3-18-93
 REV: AB120

FIELD VERIFIED 12-02-93



SECOND FLOOR PLAN

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



ROOM INFORMATION CHART					
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
200	176	207	247	214	176
201	127	208	247	215	176
202	127	209	247	216	176
203	127	210	247	217	176
204	127	211	247	218	176
205	127	212	247	219	176
206	127	213	247	220	176
207	127	214	247	221	176
208	127	215	247	222	176
209	127	216	247	223	176
210	127	217	247	224	176
211	127	218	247	225	176
212	127	219	247	226	176
213	127	220	247	227	176
214	127	221	247	228	176
215	127	222	247	229	176
216	127	223	247	230	176
217	127	224	247	231	176
218	127	225	247	232	176
219	127	226	247	233	176
220	127	227	247	234	176
221	127	228	247	235	176
222	127	229	247	236	176
223	127	230	247	237	176
224	127	231	247	238	176
225	127	232	247	239	176
226	127	233	247	240	176
227	127	234	247	241	176
228	127	235	247	242	176
229	127	236	247	243	176
230	127	237	247	244	176
231	127	238	247	245	176
232	127	239	247	246	176
233	127	240	247	247	176
234	127	241	247		
235	127	242	247		
236	127	243	247		
237	127	244	247		
238	127	245	247		
239	127	246	247		
240	127	247	247		
241	127				
242	127				
243	127				
244	127				
245	127				
246	127				
247	127				

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 21,765
 GROSS SQUARE FOOTAGE (THIS SHEET) = 23,710
 AREA: ROOMS: 407; SERVICE: 10,000; CORRIDORS: 3,699
 GROSS SQUARE FOOTAGE (BUILDING) = 40,382

- LEGEND**
- COLUMNS
 - ▨ CONCRETE
 - ▩ CONCRETE BLOCK
 - ▧ GROUND LEVEL FLOOR
 - ▨ LIGANDS
 - ▨ UTILITY SPACE
 - ▨ WINDOW
 - ▨ WOOD OR METAL STUD

- NOTES**
1. ALL EXTERIOR WALLS ARE 2'-0" 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.

NO	DATE	CLASS	DESCRIPTION	DRW	CHK	REL	SLD	REV	APP

JOHNSON CONTROLS WORLD SERVICES INC.

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

BLOC 04
 SUBMITTED: JERRY FORTY
 REVISIONS: [Handwritten notes]
 TA-41 DATE: 08-13-94

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

CLASSIFICATION: UNCLASSIFIED
 PROJECT ID: 7556
 SHEET: 3/3
 DATE: 8-13-94
 REV: [Handwritten]

7556 AB120

FIELD VERIFIED 12-02-93

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 UTM's easting 382819 northing 3970847 zone 13

Legal Description: Map Guaje Mountain 7.5 Minute Quad tnspl 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

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 Reinforced Concrete-Exterior 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 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:

Integrity

Significance

Eligible Under Criterion A B C D Not Eligible

DOE Themes

Nuclear Weapon Components and Assembly Nuclear Weapon Design and Testing Nuclear Propulsion

Peaceful Uses: Plowshare, Nuclear Medicine, Nuclear Energy, Nuclear Science Energy and Environment: 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 (Cntrl + 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



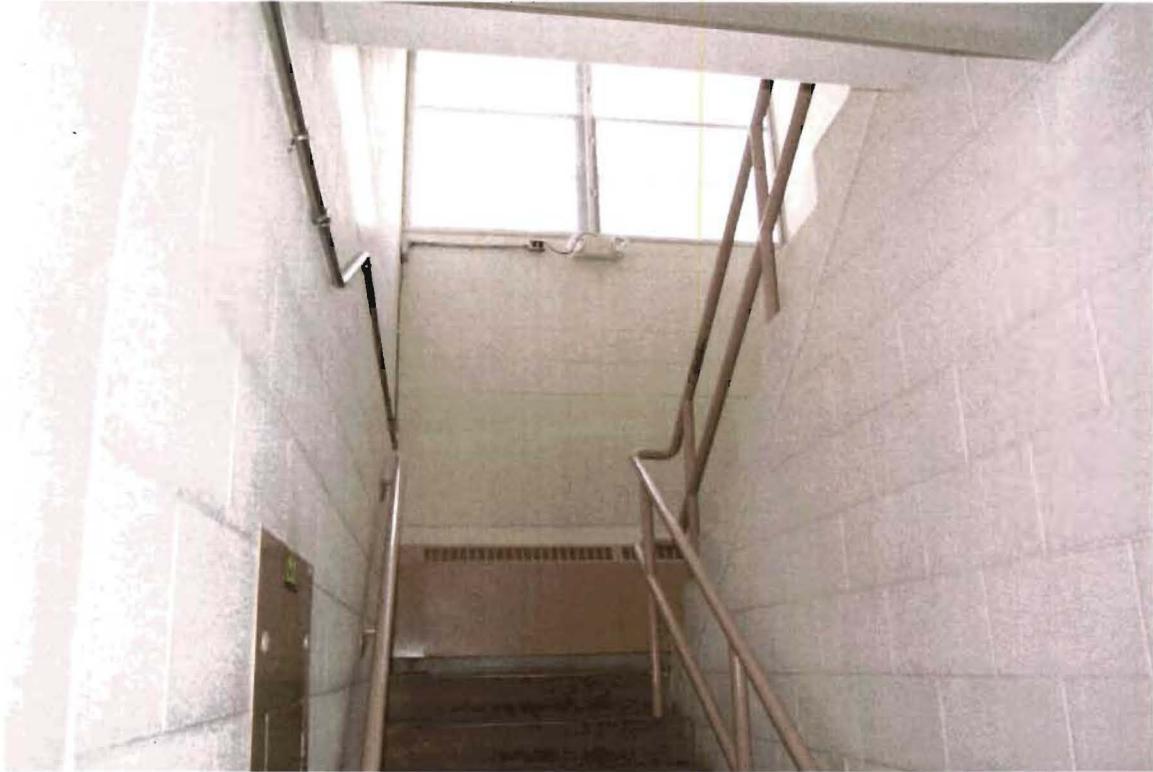
TA-41-30 First Floor Hallway, Direction West



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



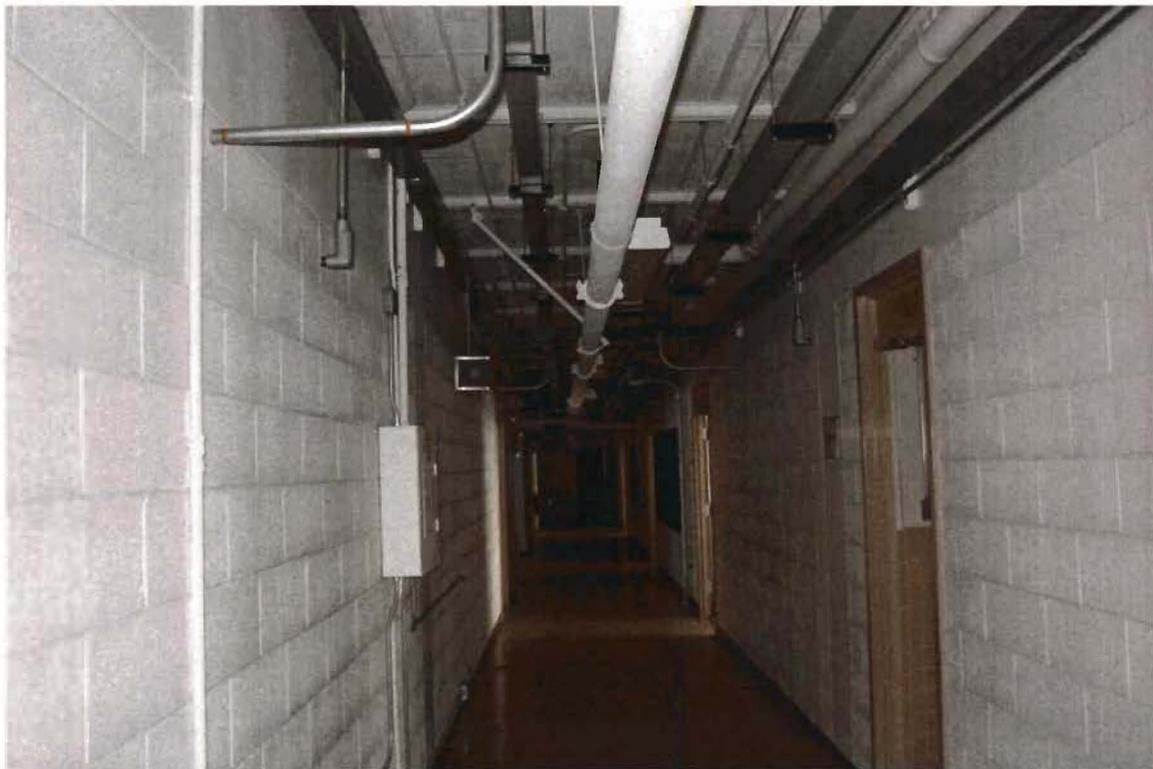
TA-41-30 Drafting Room, Second Floor, Looking East



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



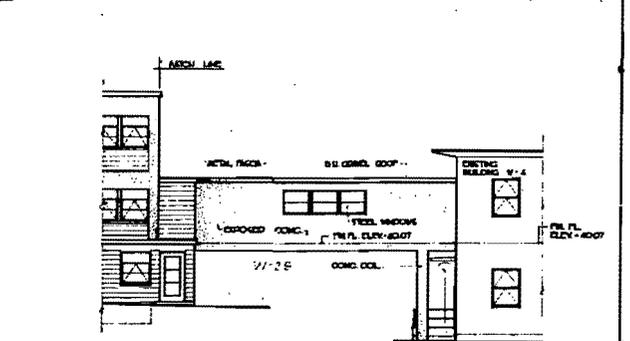
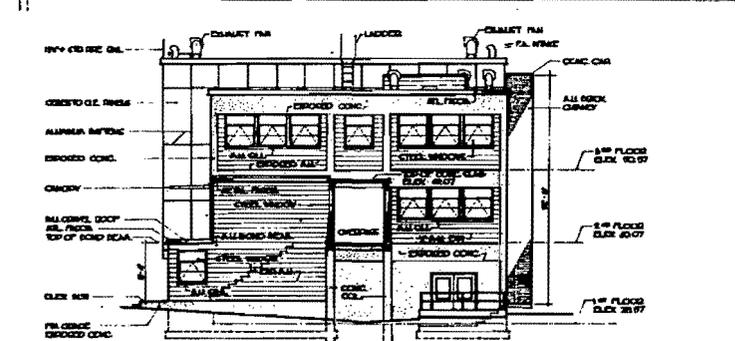
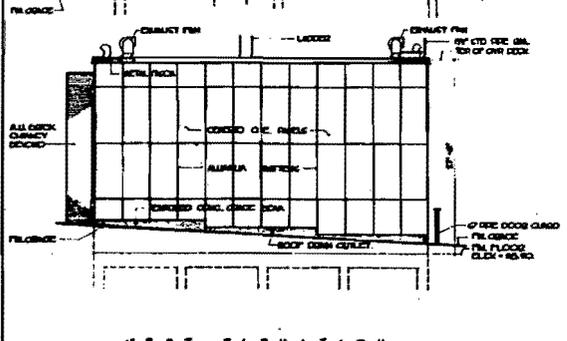
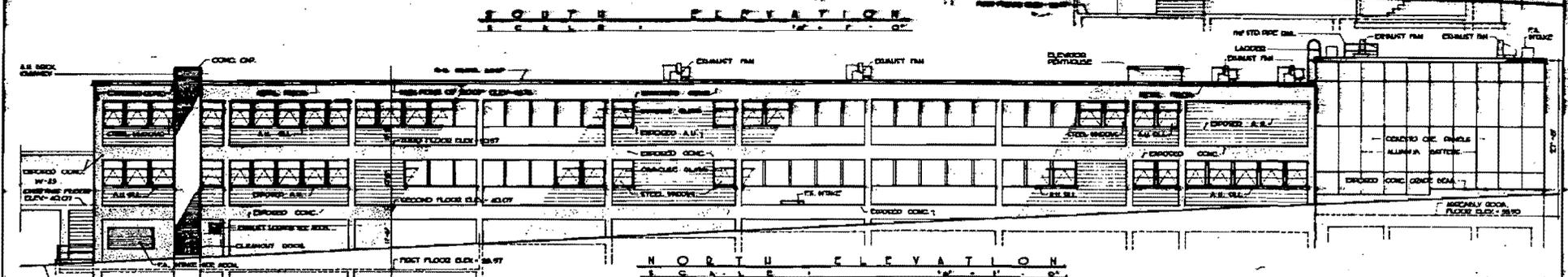
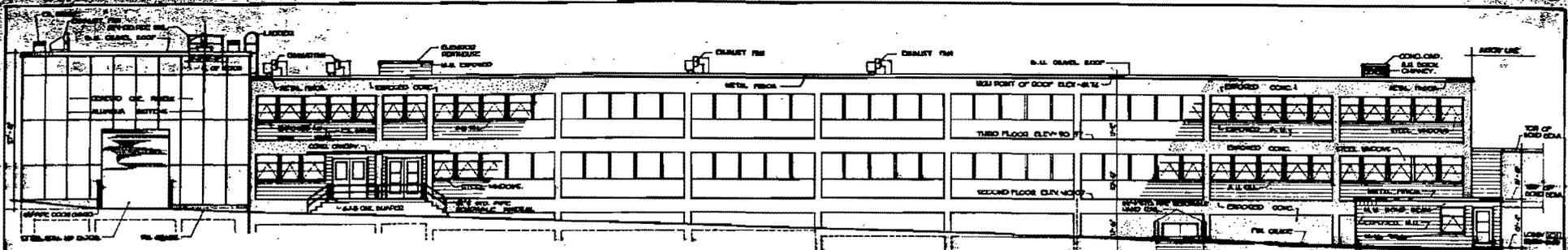
TA-41-30 Basement, Exercise Room, Direction Northwest



TA-41-30 Mechanical Room, Direction North



TA-41-30 Mechanical Room, Direction South



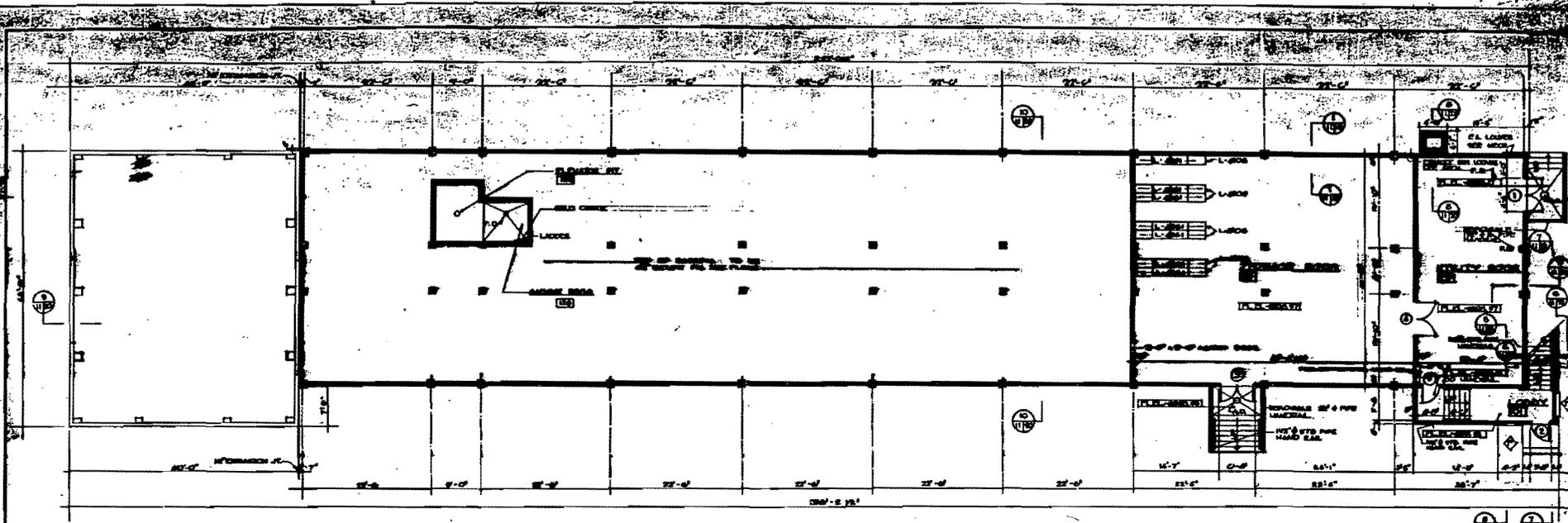
EXP - EXPOSED
 F.A. - FINISH AS SHOWN
 S.S. - STAINLESS STEEL
 O.C. - ON EQUAL

AS CONSTRUCTED DRAWING
 CONTRACT NO. AT25-11-1847
 DAVIS, FOSTER, THORPE AND ASSOCIATES
 ARCHITECTS
 APPROVED: *[Signature]*

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NO.	DATE	REVISIONS	BY	CHK	APP
1		U.S. ATOMIC ENERGY COMMISSION LABORATORY BUILDING ARCHITECTURAL ELEVATIONS BUILDING W-30 / W-29			
2		ENGINEERING & LABORATORY BUILDING ARCHITECTURAL ELEVATIONS BUILDING W-30 / W-29			
3		DAVIS, FOSTER, THORPE AND ASSOCIATED ARCHITECTS 1000 W. 10TH ST. LOS ANGELES, CALIF. 90024			
4		LA-C-116			
5		90			

AS BUILT DRAWING



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

NOTE:
L-VON ACTVA PRODUCTS SAC OR EQUAL

DOOR FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	WALL	COLUMNS	REMARKS
101	LOBBY	C	C/PALIS	EXP.	EXPOSED ROOF CONSTRUCTION
102	UTILITY ROOM	C	C/PALIS	C	
110	STORAGE ROOM	C	C/PALIS	C	
120	STORAGE ROOM	C	C	C	
120	ELEVATOR PIT	C	C	EXP.	

ABBREVIATIONS:
CAD - CABINET
F.D. - FLOOR DRAIN



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C - CONCRETE
A/E - ASSEMBLY UNITS EXPOSED

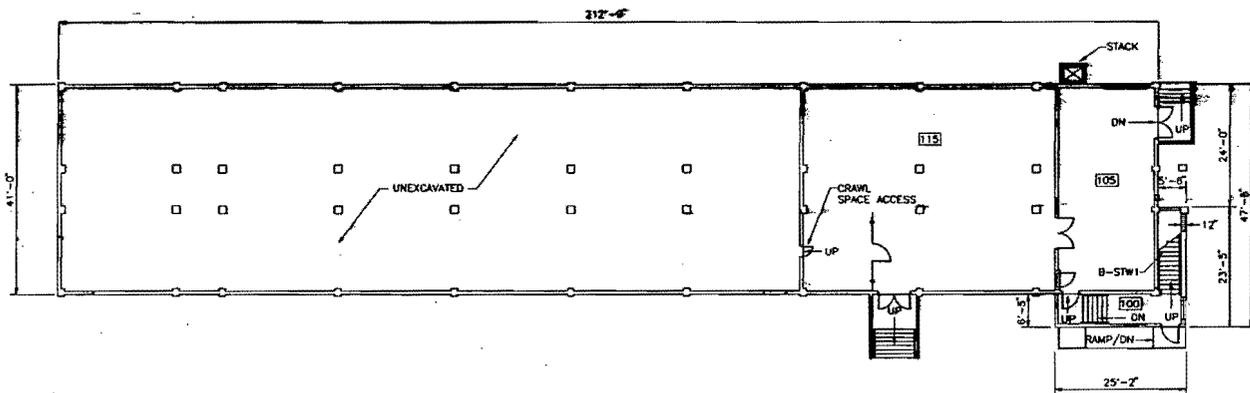
DOOR SCHEDULE

ROOM NO.	DOOR TYPE	FRAME	THRESHOLD	NOV. ACT
1	D	A-A	ATL	1
2	L	B-B	ATL	2
3	C	A-A	ATL	1
4	H	D-D	ATL	2
5	O	C-C		11

AS CONSTRUCTED DRAWING
CONTRACT NO. ATOR-6-1047
DAVE, FOSTER, THORPE AND ASSOCIATES
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

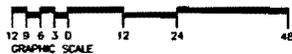
U.S. ATOMIC ENERGY COMMISSION
LABORATORY BUILDING
ENGINEERING & LABORATORY BUILDING
ARCHITECTURAL
FIRST FLOOR PLAN & SCHEDULES
BUILDING 10-100
DATE: 10/1/54
SCALE: 1/8" = 1'-0"

AS BUILT DRAWING



BASEMENT FLOOR PLAN

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



ROOM INFORMATION CHART

RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
100	73	105	720	115	1937
B-STW1	78				

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 2,908
 GROSS SQUARE FOOTAGE (THIS SHEET) = 3,073
 TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 22,012
 GROSS SQUARE FOOTAGE (BUILDING) = 22,730

LEGEND

	BRICK
	CONCRETE
	CONCRETE BLOCK
	LOAMER
	WOOD
	CHAIN LINK FENCE
	COLUMNS

NOTES

1. ALL EXTERIOR WALLS ARE 6" THICK UNLESS OTHERWISE NOTED.
2. ALL INTERIOR WALLS ARE 6" 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 ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENTHOUSES, VAULTS, AND ENCLOSED PASSAGES.
6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.

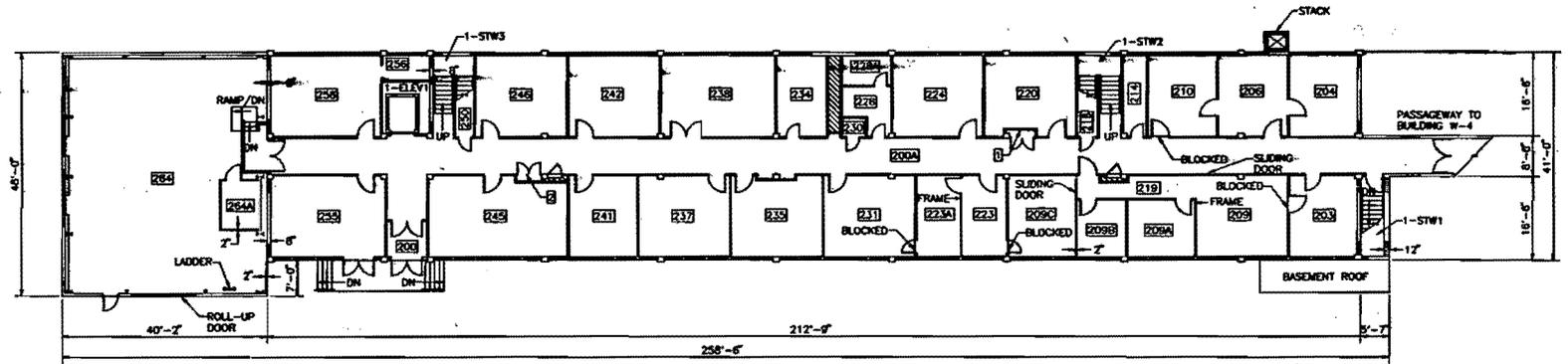
NO	DATE	CLASS REV	DESCRIPTION	DRN	CHKD	SUB	APP
JOHNSON CONTROLS							
AS-BUILT RECORD FLOOR PLAN OFFICE BUILDING							
ARCH: BASEMENT FLOOR PLAN							
BLDG 30	TA-41	DATE	12-14-85	DRN	APPROVED FOR RELEASE	DATE	2/6/96
SUBMITTED	JOHN FORTE	APPROVED FOR RELEASE	FRED YOUNG	REVIEWER	Y. GUSDON	DATE	2-2-96
Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545				SHEET	1	OF	3
CLASSIFICATION	U	REVIEWER	Y. GUSDON	DATE	2-2-96		
PROJECT ID	7556	DRAWING NO	AB568				

ROOM INFORMATION CHART					
RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE	RM NO	NET SQ FOOTAGE
200		201		202	
203		204		205	
206		207		208	
209		210		211	
212		213		214	
215		216		217	
218		219		220	
221		222		223	
224		225		226	
227		228		229	
230		231		232	
233		234		235	
236		237		238	
239		240		241	
242		243		244	
245		246		247	
248		249		250	
251		252		253	
254		255		256	
257		258		259	
260		261		262	
263		264		265	
266		267		268	
269		270		271	
272		273		274	
275		276		277	
278		279		280	
281		282		283	
284		285		286	
287		288		289	
290		291		292	
293		294		295	
296		297		298	
299		300		301	
302		303		304	
305		306		307	
308		309		310	
311		312		313	
314		315		316	
317		318		319	
320		321		322	
323		324		325	
326		327		328	
329		330		331	
332		333		334	
335		336		337	
338		339		340	
341		342		343	
344		345		346	
347		348		349	
350		351		352	
353		354		355	
356		357		358	
359		360		361	
362		363		364	
365		366		367	
368		369		370	
371		372		373	
374		375		376	
377		378		379	
380		381		382	
383		384		385	
386		387		388	
389		390		391	
392		393		394	
395		396		397	
398		399		400	

TOTAL ROOM NET SQUARE FOOTAGE (THIS SHEET) = 10,716
 GROSS SQUARE FOOTAGE (THIS SHEET) = 10,883
 TOTAL ROOM NET SQUARE FOOTAGE (BUILDING) = 22,012
 GROSS SQUARE FOOTAGE (BUILDING) = 22,388

LEGEND

	BRICK
	CONCRETE BLOCK
	DOOR
	WINDOW
	WOOD OR METAL STUD COLUMNS



- NOTES**
1. ALL EXTERIOR WALLS ARE 8" 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 ENCLOSING WALLS, AND INCLUDES ALL FLOORS, MEZZANINES, HALLS, VESTIBULES, STAIRWELLS, SERVICE AND EQUIPMENT ROOMS, PENHOUSES, VAULTS, AND ENCLOSED PASSAGES.
 6. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.



NO.	DATE	CLASS.	DESCRIPTION	CHK.	REVISIONS
JOHNSON CONTROLS					
AS-BUILT FLOOR PLAN OFFICE BUILDING					
ARCH: FIRST FLOOR PLAN					
BLOC 30	TA-81				DATE 12-16-90
SUBMITTED	APPROVED FOR RELEASE				DATE 2/5/96
LENN FORTE	FRED (660) 527-0200				SHEET 2/3
Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545					
CLASSIFICATION	NUMBER 1, GUSON				DATE 8-2-86
PROJECT ID	DRAWING NO.				REV
7556	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 UTMs 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 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

[Redacted]

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

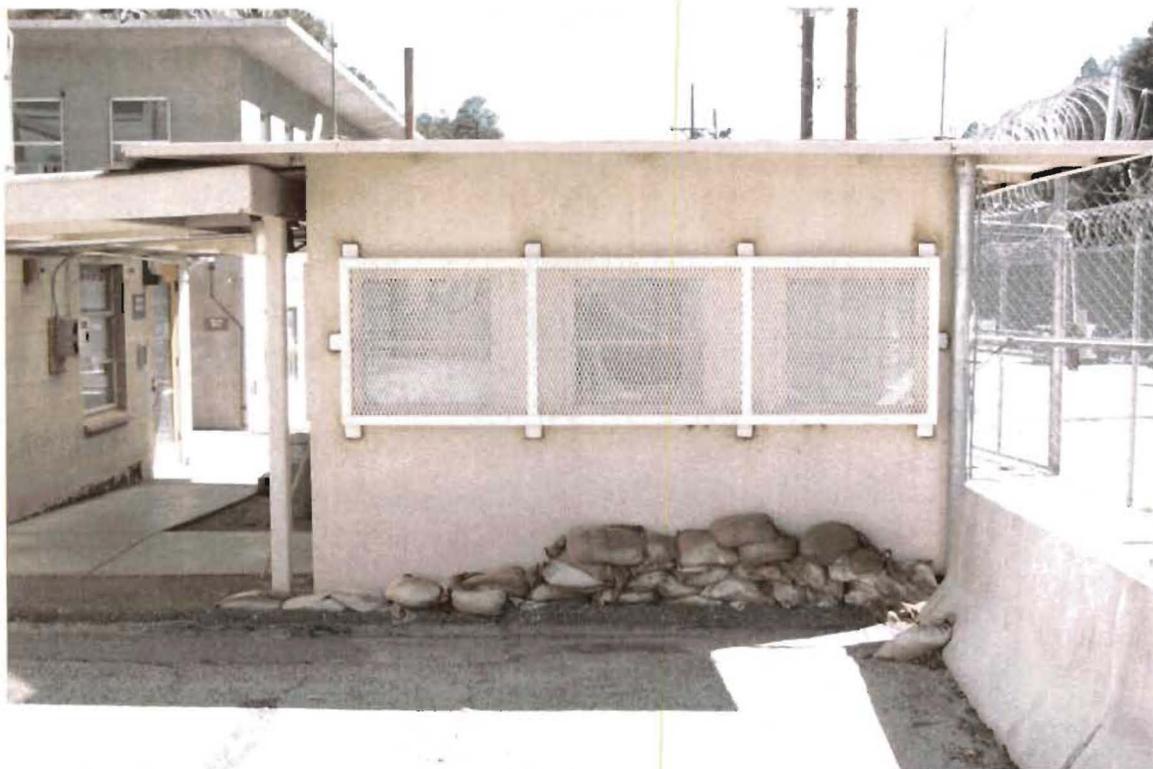
[Redacted]

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



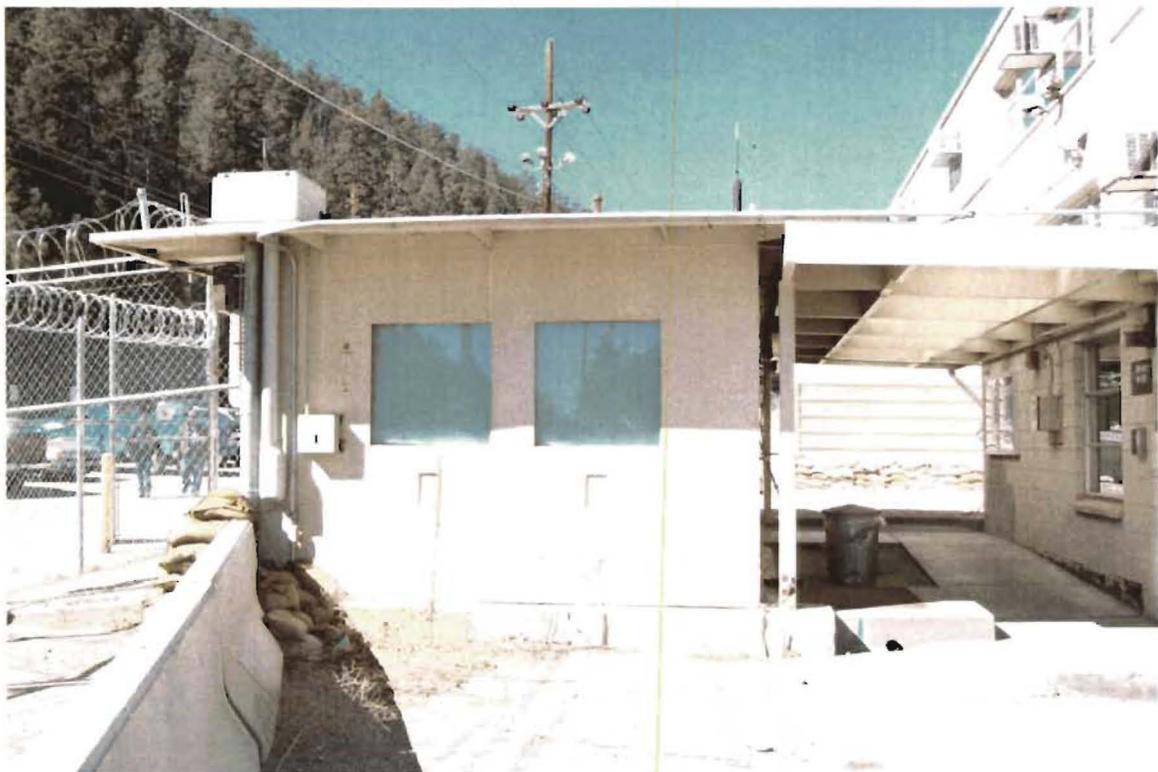
TA-41-53 South Elevation



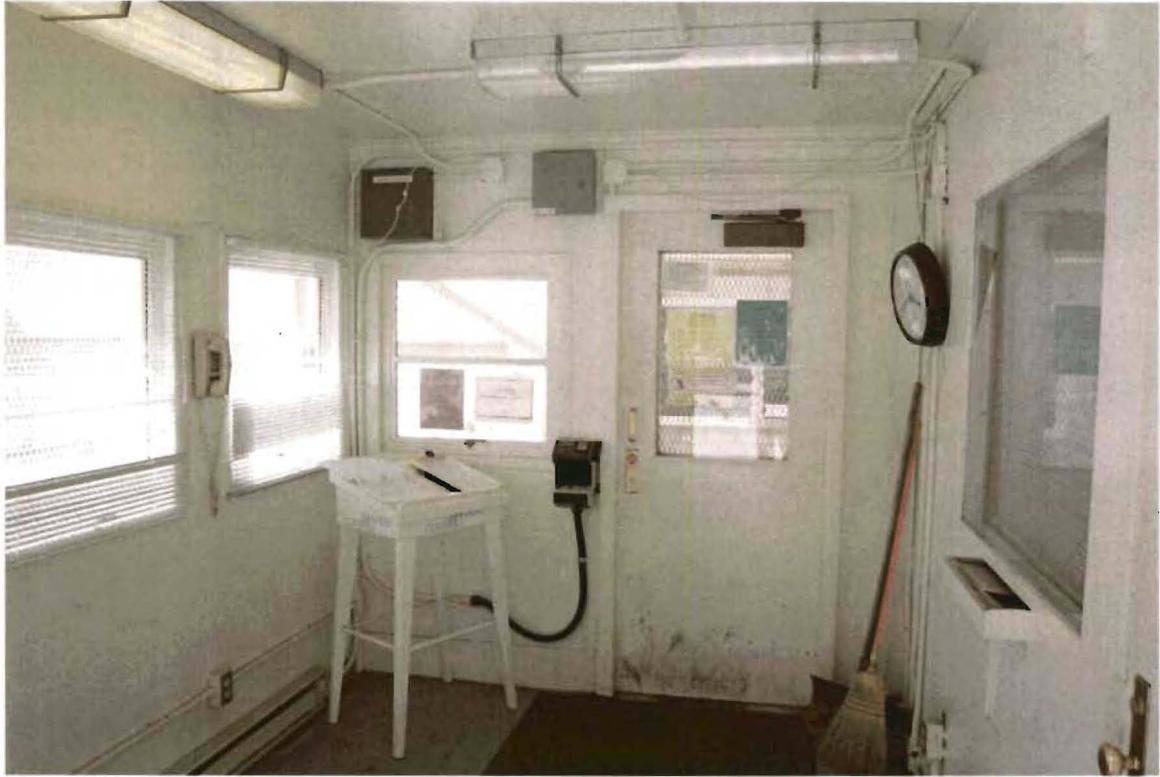
TA-41-53 West Elevation



TA-41-53 North Elevation



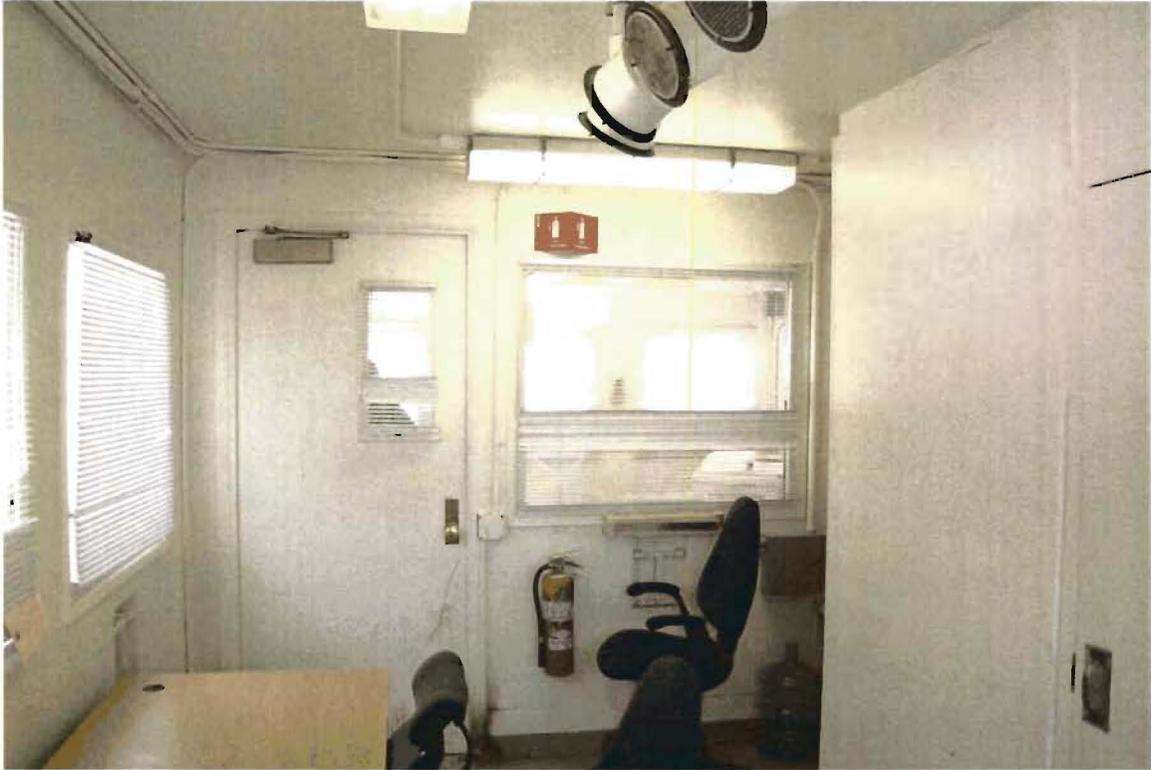
TA-41-53 East Elevation



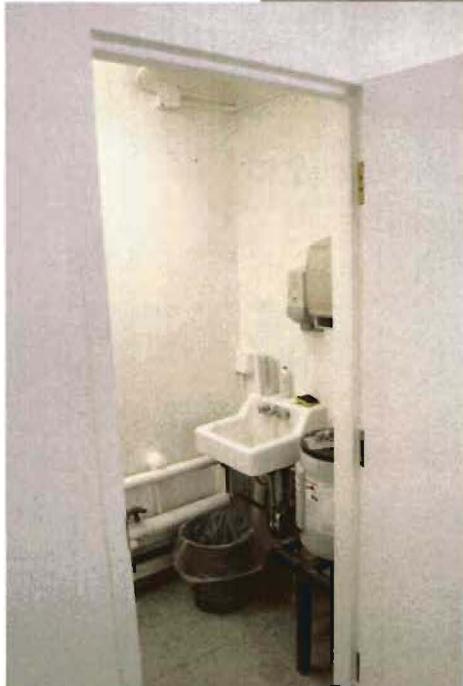
TA-41-53 Foyer, looking north



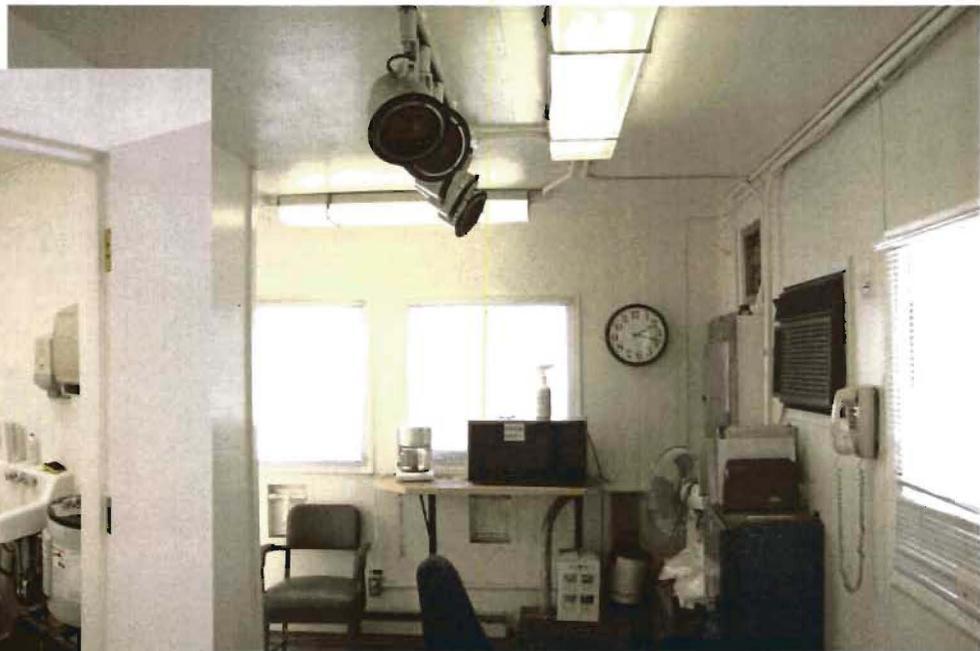
TA-41-53 Foyer, looking south



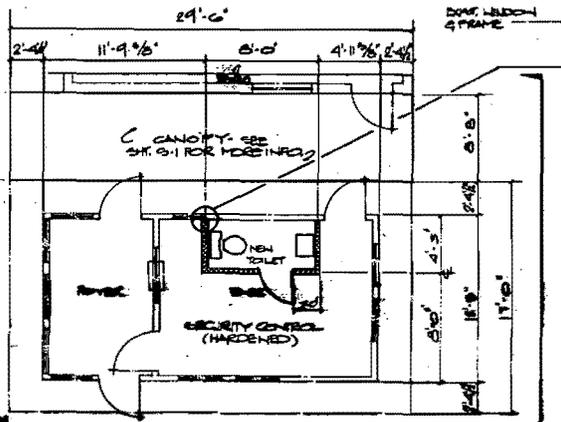
TA-41-53 Security Control Office, looking west



TA-41-53 Restroom



TA-41-53 Security Control Office, looking east

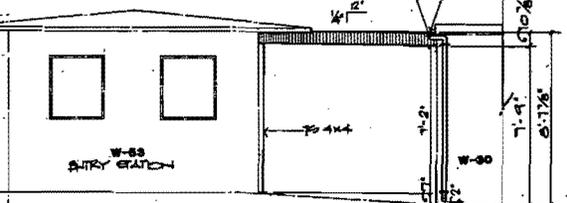


FLOOR PLAN
SCALE: 1/8" = 1'-0"

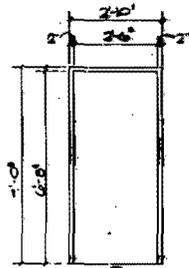
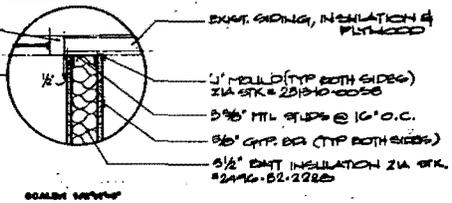
LEGEND

- EXISTING FEATURES
- NEW FEATURES
- NEW 5/8" MTL STUD & GYP BOARD PARTITION
- BATT INSULATION
- GYP BOARD

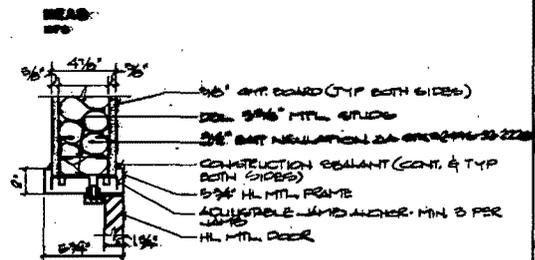
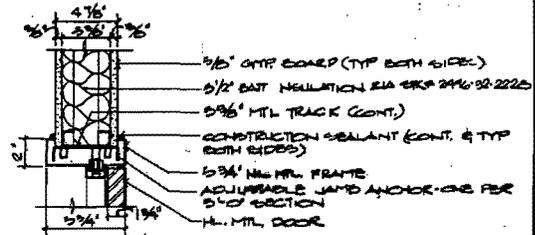
ROOFING: ABSOLUTE FIBERGLASS, COLOR: 49 - GUARDIAN
GRAY



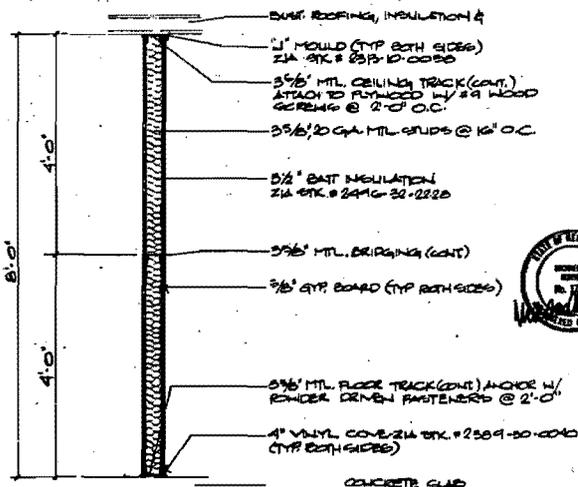
ELEVATION
SCALE: 1/8" = 1'-0"



DOOR & FRAME
SCALE: 1/8" = 1'-0"



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



TYPICAL WALL SECTION
SCALE: 1/8" = 1'-0"



NO.		DATE	CLASS.	REV.	BY	CHKD.	APP'D.	DATE
HOLMES & MARVER, INC.		ALBUQUERQUE A/E DIVISION			ALBUQUERQUE, NEW MEXICO			
SAFEGUARDS AND SECURITY UPGRADE								SCALE
PHASE I								1/4" = 1'-0"
ENTRY STATION								DATE
ARCH: FLOOR PLAN/DOOR DETAILS/WALL								1/2/84
SECTION								DATE
PROJECTED BY: [Signature]								DATE
RECORDED BY: [Signature]								DATE
CHECKED BY: [Signature]								DATE
RELEASED BY: [Signature]								DATE
Los Alamos								A-1
Los Alamos National Laboratory								12
Los Alamos, New Mexico 87545								14
CLASSIFICATION		REVISIONS		DATE		REV.		
UNCLASSIFIED		1		7-28-84				
PROJECT NO.		DRAWING NO.		DATE		REV.		
8066-41		ENG-C44523		7-28-84				
RECD. LOCKER TO VAULT								