

LA-UR-01-1805

**“The Hollow” at TA-15;
An Eligibility Assessment Report**

Cultural Resource Report No. 191

Los Alamos National Laboratory

**March 30, 2001
Survey No. 810**

Prepared for the Department of Energy
Los Alamos Area Office

prepared by

**Ellen D. McGehee
And
Kari L. M. Garcia**

Cultural Resource Managers

ESH-20 Cultural Resources Management Team
Environment, Safety, and Health Division
LOS ALAMOS NATIONAL LABORATORY

Introduction:

The following information has been prepared as part of a notification of potential adverse effect to a complex of historic Los Alamos National Laboratory (LANL) properties at Technical Area (TA) 15 known as "the Hollow": TA-15-20, -22, -30, -50, -194, -203, -213, -239, -245, -254, -261, -329, -371, -372, -373, -374, and -458. One additional building, TA-15-23, is not located in "the Hollow" proper but is located nearby. The proposed decontamination and decommissioning (D&D) action is part of LANL's routine phasing out of aging and vacant properties and will result in the demolition of all properties listed above. Some of the proposed D&D work is also related to post-Cerro Grande Fire clean up activities at LANL, because a portion of "the Hollow" was burned during the May 2000 wildfire. The D&D activities will adversely affect the attributes that make these buildings eligible for the National Register of Historic Places.

This report is intended to provide the initial 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 short report contains a description of the proposed action, historical background information, brief property descriptions, building integrity and contamination information, and recommendations for National Register of Historic Places eligibility.

The State Historic Preservation Officer (SHPO) is requested to concur with the eligibility determinations contained in this report and to concur that the proposed D&D action will adversely affect building TA-15-23 and the seven other eligible properties located at "the Hollow" (TA-15-20, -22, -30, -194, -203, -213, and -245).

Project Description:

In November 2000, a historic building survey was conducted for eighteen buildings and structures proposed for D&D at TA-15. Work processes carried out at "the Hollow" supported early post-World War II explosive testing activities and later Cold War dynamic radiographic testing of weapons components. Work processes related to building TA-15-23 include early Manhattan Project initiator research (when the building was located at TA-20) and later Cold War high explosive (HE) science.

The buildings and structures located in or near "the Hollow" are excess LANL property and are scheduled for clean up and eventual demolition. Additionally, six of the properties discussed in this report were extensively burned during last year's Cerro Grande Fire: TA-15-50 (shop building), TA-15-239 (passageway), TA-15-329 (transportainer), TA-15-371 (passageway), TA-15-374 (shed), and TA-15-458 (transportainer). These burned properties are scheduled to be cleaned up and disposed of for health and safety reasons.

Historical Background Information:

TA-15 and the Hollow

TA-15 (R Site) is located on top of Threemile Mesa between Cañon de Valle and Threemile Canyon. TA-15 consists of a number of firing sites used extensively since 1944 for research and explosive testing of weapon design components. Over TA-15's history, about twelve different firing sites have been used. Principal sites include the PHERMEX (Pulsed High-Energy Radiographic Machine Emitting X-rays) and Ector sites where radiography is used to obtain data on the performance of an explosive assembly during detonation. PHERMEX facility was built in the early 1960s to perform dynamic radiography of the weapon components of nuclear weapons during explosion. A second major dynamic radiographic machine named Ector was installed in the early 1980s for studies similar to those at PHERMEX (LANL 1993). In 1999 the first axis of the DARHT (Dual-Axis Radiographic Hydrodynamic Test Facility) facility was completed. The dual axis nature of the facility will allow scientists to obtain time-sequenced material or see in three dimensions what happens in a nuclear mockup (LANL 2000).

A series of connected buildings has been assembled over a period of time in an area called "the Hollow." This area is south of building TA-15-40, formerly the main office building for TA-15, and west of R Site Road. These buildings, beginning with TA-15-20 in 1949, have had varied uses as assembly buildings, laboratories, and shops. The prototype for the PHERMEX accelerator and the prototype REX (Relativistic Electron Beam Experiment) of the prototype for the first axis of DARHT were developed and tested in "the Hollow" (LANL 1993).

Building TA-15-23

TA-15-23 was built in 1945 during the Manhattan Project for use as a laboratory building at TA-20 (Sandia Site). The building was originally numbered TA-20-1. Former TA-20, situated in Sandia Canyon, was abandoned in the late 1940s so that East Jemez Road could be built. TA-20 had been used to test initiators, devices used to add neutrons to nuclear explosions (LANL 1990).

In 1948, building TA-20-1 was relocated to R Site and renumbered TA-15-23. In 1951, the building was moved to its current location in TA-15. While at TA-15, building TA-15-23 received the designation "GMX Manor" and the building was used in a variety of capacities; as a firing site control building, as a chemistry laboratory, as an assembly building for non-HE components of HE experiments, and as a main shop building.

Property Descriptions:

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 "R" prefix

(for R Site) 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-15-20 is the same building as R-20.

Brief building descriptions are provided below in table format (see Appendix A for maps of the project area and Appendix B for photos and drawings). Site forms are included in Appendix C for the three burned properties that had drawings on file (TA-15-50, -239, and -371) even though they are not eligible for the National Register. Site forms for National Register eligible properties will be included in a subsequent report once a treatment plan to resolve the adverse effects has been developed.

Building Number	Date Built	Construction Type	Function
TA-15-20	1949	Steel framed, reinforced concrete structure	Assembly Building, Research Laboratory, Machine Shop
TA-15-22	1948	Concrete masonry unit construction with corrugated metal roof and associated earthen berm	Explosives Magazine and Explosives Preparation Building, PHERMEX Prototype Control Building?, Storage Building
TA-15-23	1945	Wooden Manhattan Project-style building with asbestos clapboard shingles	Initiator Laboratory (TA-20), Control Building, Laboratory Building, Shop Building (TA-15)
TA-15-30	1949	Concrete masonry unit construction	Guard House, Storage Building
TA-15-50	1959	Wood and metal construction (corrugated steel siding)	Three-sided Shed then modified to Shop/Laboratory Building
TA-15-194	1959	Metal Butler building	Pulsed Power Laboratory, PHERMEX and DARHT components testing
TA-15-203*	1959	Metal Butler building	PHERMEX Cavity Shelter Laboratory, REX Laboratory

Building Number	Date Built	Construction Type	Function
TA-15-213*	1961	Wood frame structure	Equipment platform for TA-15-203
TA-15-239	1965	Corrugated steel, wood, and plastic "sky lights"	Passageway between TA-15-50 and TA-15-203
TA-15-245	1967	Metal Butler building	Passageway converted to Laboratory Building (REX Control Room)
TA-15-254	No date	Transformer components located on concrete pad within chain link fence	Voltage Regulator (transformer) Station
TA-15-261	No date	Metal	Mineral Oil Storage Tank
TA-15-329	No date	Metal	Storage Transportainer
TA-15-371	1960	Corrugated steel, wood, and plastic "sky lights"	Passageway between TA-15-194 and TA-15-50
TA-15-372	No date	Metal	Storage Transportainer
TA-15-373	No date	Metal	Storage Transportainer
TA-15-374	No date	Metal	Storage Shed
TA-15-458	No date	Metal	Storage Transportainer

*TA-15-213 was built as an extension of TA-15-203. These two properties have shared functions.

Integrity Issues and Potential for Contamination:

Six of the eighteen properties discussed in this report were extensively burned during last year's Cerro Grande Fire: TA-15-50 (shop building), TA-15-239 (passageway), TA-15-329 (transportainer), TA-15-371 (passageway), TA-15-374 (shed), and TA-15-458 (transportainer). These buildings and structures have lost all physical integrity.

Based on preliminary field checks, it appears that most of the original equipment has been removed from the remaining twelve properties. Other than this loss of interior integrity, the unburned properties have not been significantly modified since their period of significance. Many of the properties, up until recently, were either empty or being used as storage space. One building, TA-15-203, still contains equipment associated with

the REX experiment, a precursor experiment to the first axis of DARHT. The REX experiment and its *in situ* apparatus will be documented in more detail in the follow up report mentioned above.

None of the properties discussed in this report have evidence of radioactive contamination. However, hazardous materials such as asbestos and lead are suspected. These are normal hazards associated with buildings and structures constructed during the 1940s and 1950s.

Eligibility Recommendation:

There are several periods of historical significance associated with the properties at "the Hollow" and with building TA-15-23.

The earliest period of significance is associated with activities carried out in building TA-15-23 while it was located at TA-20 and was numbered TA-20-1. This building was an important facility for Manhattan Project and Early Cold War initiator research that took place between 1945 and 1948 in Sandia Canyon.

TA-15-23 is a "moved property" and in order to be eligible under Criterion A, it must be associated with significant historical events at its new location. TA-15-23, in its role as "GMX Manor," contributed to early firing site support and weapons research at TA-15 during the 1940s and 1950s. During this same time period, several buildings at "the Hollow" were playing key roles in early firing area support and firing test assembly: TA-15-22 (in its original function as a 10,000 pound explosives magazine), TA-15-20 (assembly building), and TA-15-30 (guard house).

In 1959, the buildings and structures at "the Hollow" became associated with PHERMEX development and testing work. Important properties during this period of significance include TA-15-20, -22, -194, and -203, -213.

In 1976, buildings TA-15-203 and TA-15-245 became key properties associated with the REX experiment in support of the DARHT facility. The REX experimental apparatus is still located inside building TA-15-203.

Ineligible Properties:

The following ten properties are not deemed eligible for the National Register of Historic Places. Six properties were extensively damaged by the Cerro Grande Fire and have lost all integrity: TA-15-50 (shop) -239 (passageway), -329 (transportainer), -371 (passageway), -374 (shed), and -458 (transportainer). The remaining four properties are exempt from consideration under the terms of a Programmatic Agreement (PA) between the Department of Energy/Los Alamos Area Office and the New Mexico SHPO due to their lack of historical significance (PA number MOU DE-GM32-00AL77152,

Appendix A): TA-15-254 (transformer), -261 (oil storage tank), -372 (transportainer), and -373 (transportainer).

Eligible Properties:

The following eight LANL properties are eligible for nomination to the National Register of Historic Places: TA-15-20, -22, -23, -30, -194, -203, -213, and -245.

Buildings TA-15-20, -22, -23, and -30 are fifty years old or older and are associated with significant early Cold War weapons research; specifically, the assembly and testing of weapons components related to the nation's post-World War II stockpile of nuclear weapons. Building TA-15-23 also played an important role in early initiator development during the Manhattan Project years while it was located at TA-20.

TA-15-194, -203, -213, and -245, although less than fifty years old, are eligible for nomination to the National Register of Historic Places. This determination is made under Criterion A of the National Historic Preservation Act of 1966, due to their association with important events during the Cold War years at Los Alamos (criteria consideration G: "properties that have achieved significance within the last fifty years") (U.S. Department of Interior 1991). Although TA-15-194 and TA-15-245 have suffered a loss of interior integrity, they are eligible under Criterion A for their associations with Cold War events of historical importance. REX, a precursor experiment to the DARHT facility, is still located in building TA-15-203 (with its associated platform structure TA-15-213).

Experiments conducted at all three buildings have contributed to the development of both PHERMEX and DARHT technologies that study the inner workings of nuclear weapons without actually initiating a nuclear reaction. This development at LANL has played a crucial part in the maintenance of the United States' nuclear stockpile and, at the same time, has allowed the United States to comply with international test ban treaties.

References Cited:

Los Alamos National Laboratory

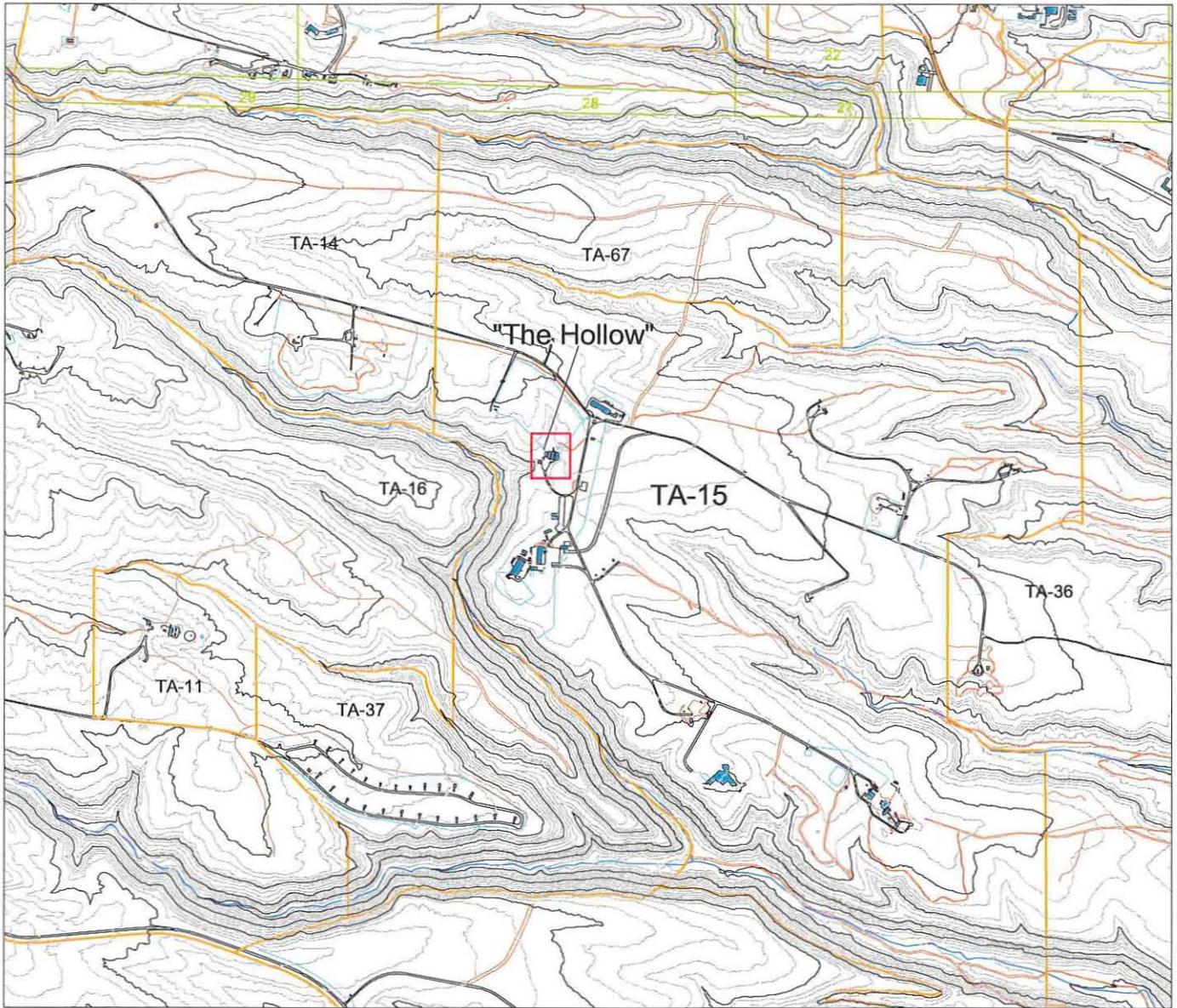
- 1990 Solid Waste Management Units Report, LA-UR-90-3400, Los Alamos National Laboratory, Los Alamos, New Mexico.
- 1993 *RFI Work Plan for OU 1086, ER Program*. LA-UR-92-3968, Los Alamos National Laboratory, Los Alamos, New Mexico.
- 2000 Dynamic Experimentation Homepage, <http://www.lanl.gov/orgs/dx/main.html>, accessed 11/17/00.

U.S. Department of the Interior

- 1991 How to Apply the National Register Criteria for Evaluation, *In National Register Bulletin*, No. 15, U.S. National Park Service, Washington, D.C.

Appendix A

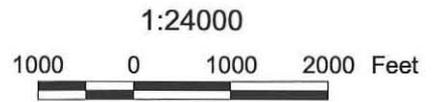
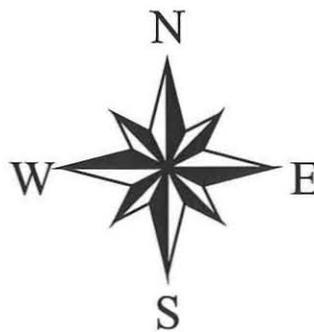
Maps



Frijoles Quad

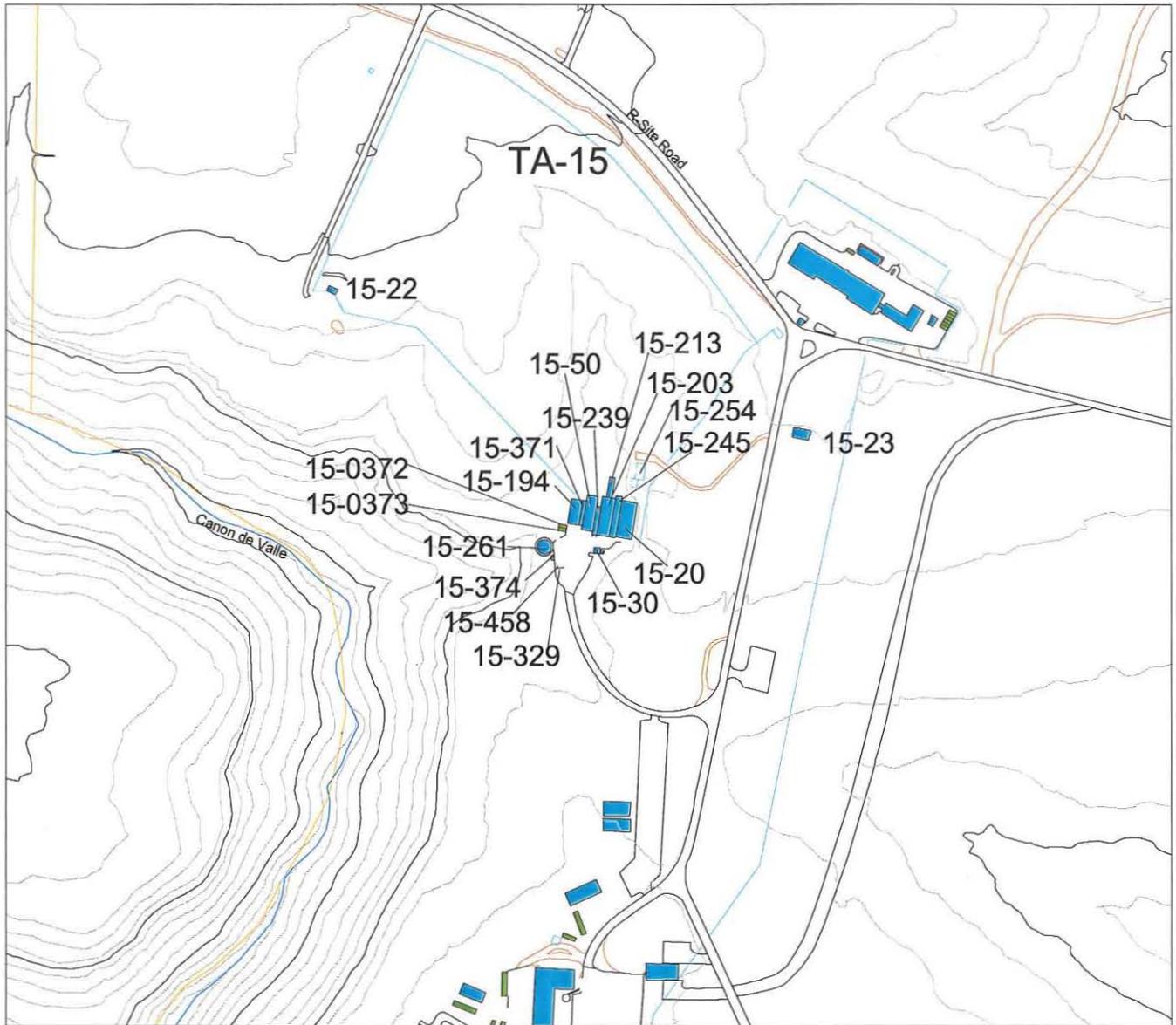
Los Alamos
National Laboratory
Cultural Resources Team
ESH-20 Ecology Group

TA-15
The Hollow



- 20 Foot Contours
- 100 Foot Contours
- Techarea
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Infence
- Secfence
- Permbldg
- Tmpbldg
- Ugrdbldg

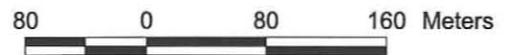
Map 1



Frijoles Quad

Los Alamos
National Laboratory
Cultural Resources Team
ESH-20 Ecology Group

1:5000



- 20 Foot Contours
- 100 Foot Contours
- Techarea
- Drainage
- Township, Section, Range
- USGS 7.5 Minute Quad
- Roads
- Roaddirt
- Parkpave
- Parkdirt
- Indfence
- Secfence
- Permbldg
- Tmptbldg
- Ugrbldg

TA-15
The Hollow

Map 2

Appendix B

Photos and Drawings



TA-15-329 and TA-15-458



TA-15-374 and TA-15-261



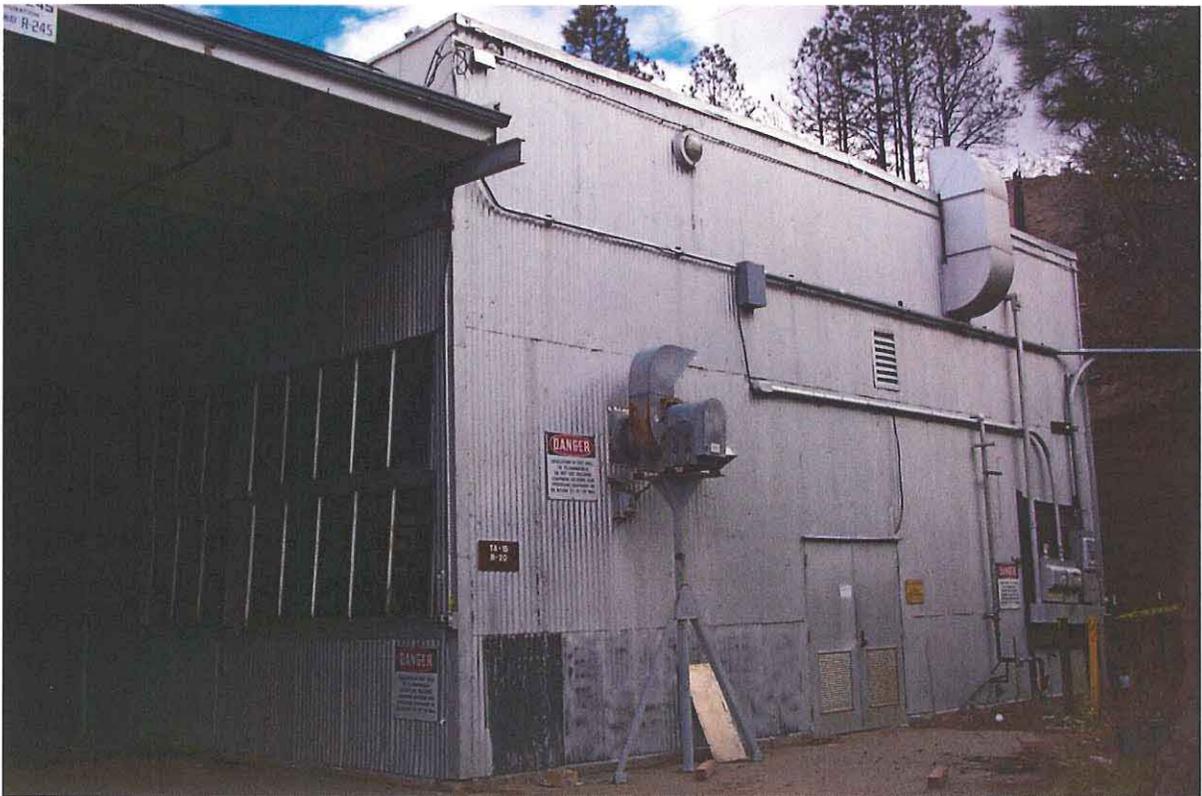
TA-15-373, TA-15-372, and TA-15-194



TA-15-194, TA-15-371, TA-15-50, TA-15-239, TA-15-203



TA-15-203, TA-15-245 (covered walkway portion), TA-15-20, and TA-15-30



TA-15-245 and TA-15-20



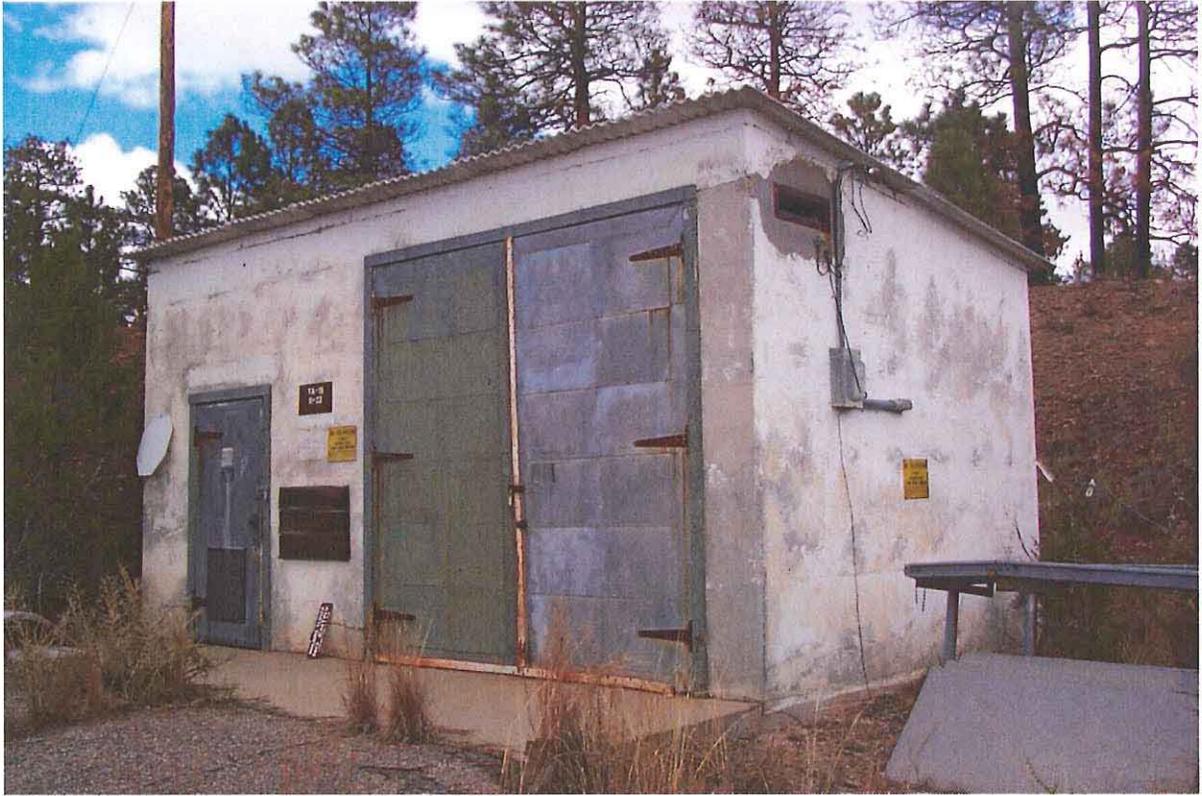
TA-15-213 (platform)



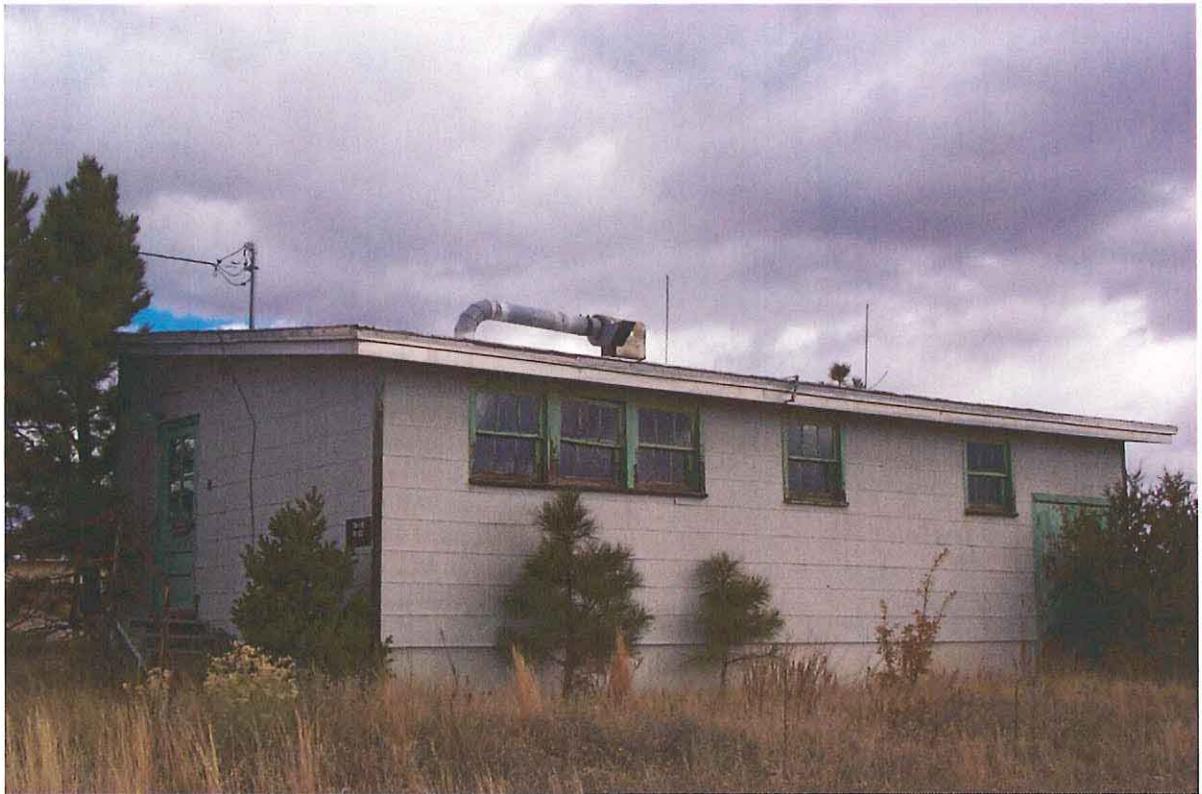
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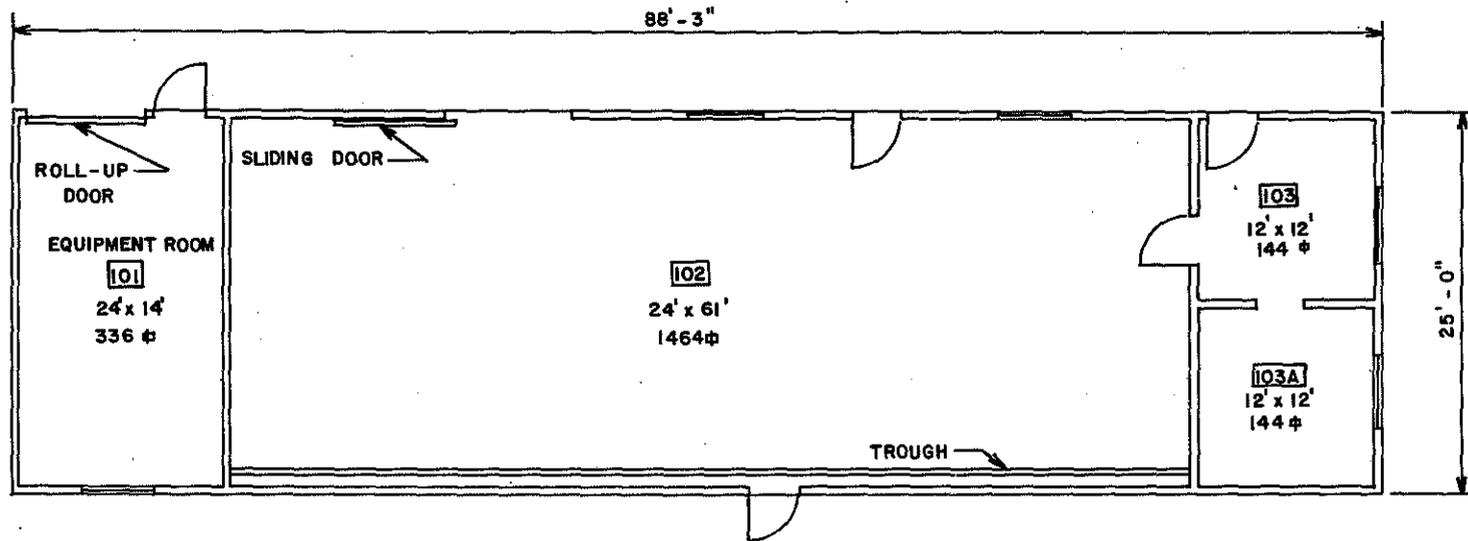
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TA-15-22



TA-15-23



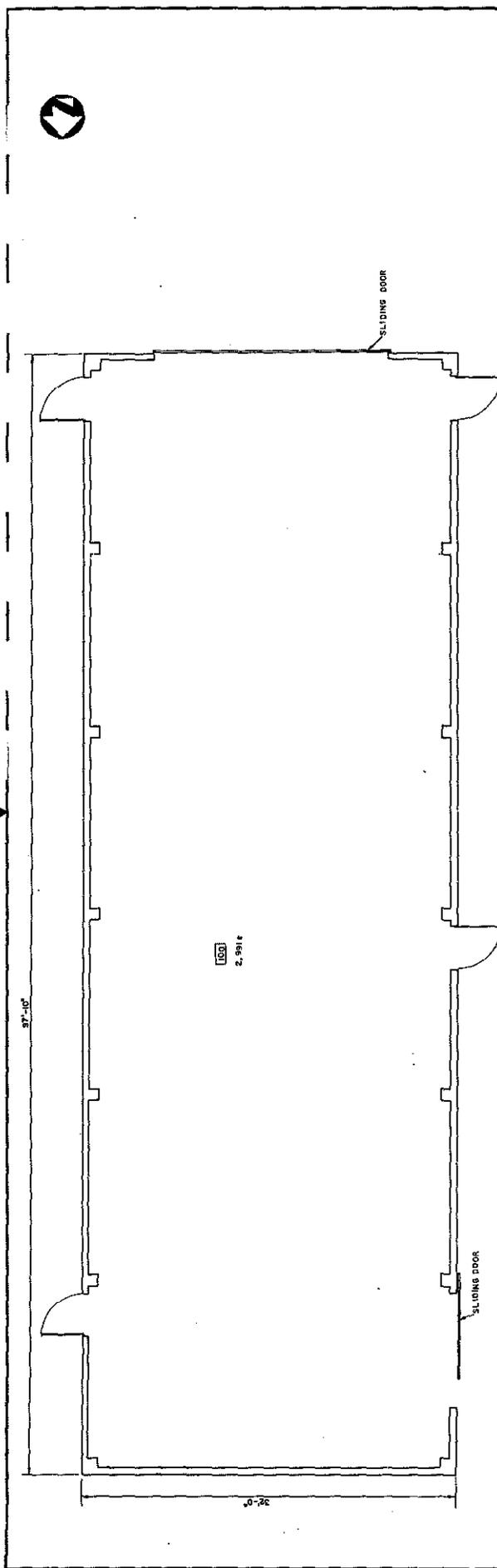
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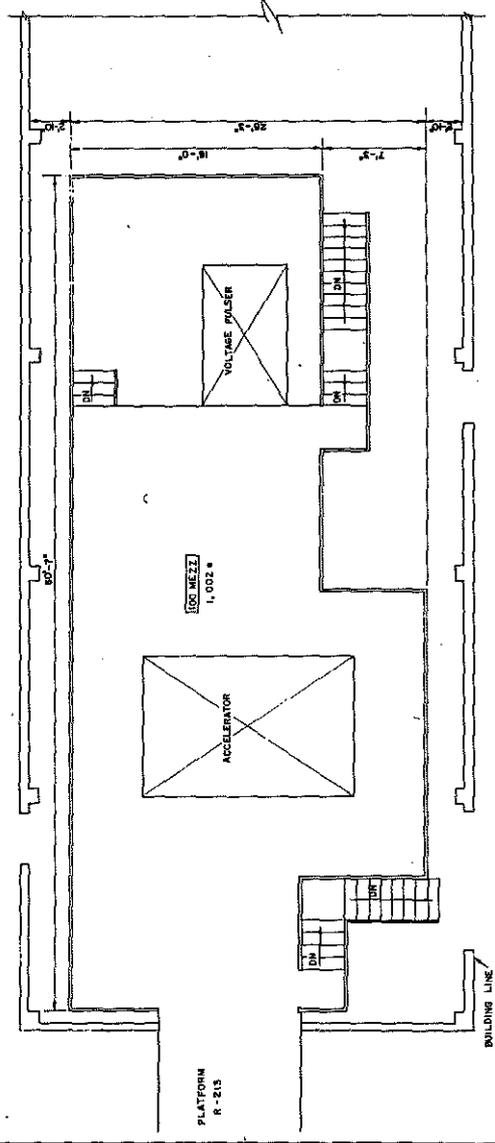
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Los Alamos			Los Alamos National Laboratory Los Alamos, New Mexico 87545		
FACILITIES ENGINEERING DIVISION					
SHOP & LABORATORY BUILDING FLOOR PLAN					SEC. CLASSIFICATION
BLDG. R-50					CLASS. <i>U</i>
TA-15					REVIEWER <i>Humble</i>
					DATE <i>10-17-83</i>
SUBMITTED <i>G. Trujillo</i>		RECOMMENDED <i>Dennis Papp</i>		APPROVED <i>W.T. Elmer</i>	
DRAWN <i>G. MARTINEZ</i>	DATE 9-2-83	SHEET NO. 1 OF 1	DRAWING NO. ENG-R 2726		
CHECKED <i>Humble</i>	H&N				

LOGGED TO VALUE 11-22-83



FIRST FLOOR PLAN



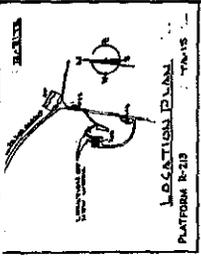
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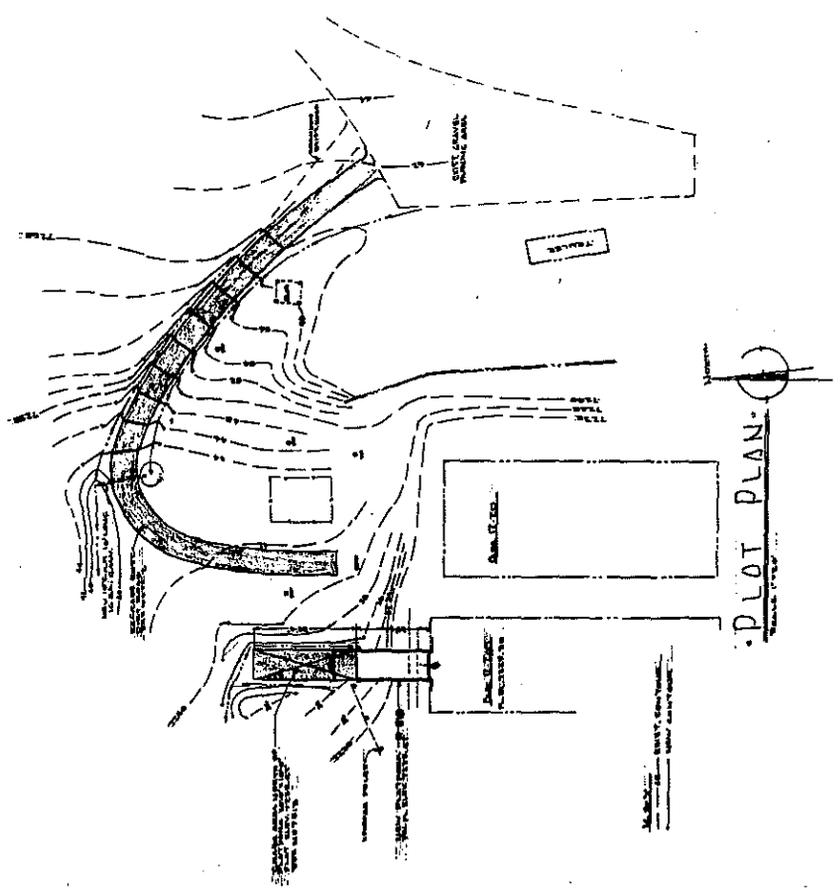
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PLATFORM
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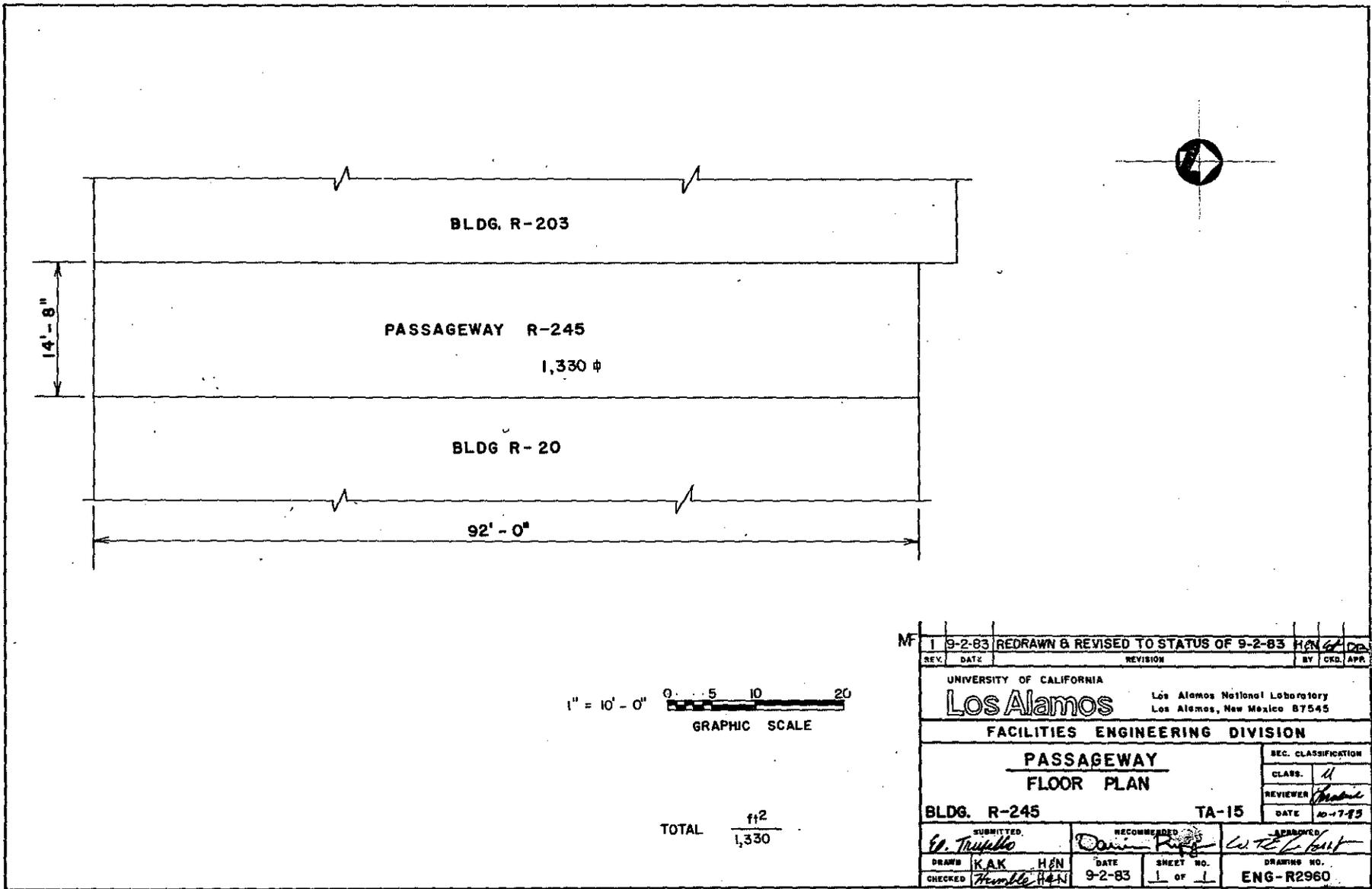
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2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE U.S. NATIONAL ELECTRICAL CODE (NEC) AND THE U.S. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE U.S. NATIONAL ELECTRICAL CODE (NEC) AND THE U.S. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
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THIS JOB MUST BE INSPECTED AND NOT BE CONSIDERED APPROVED UNTIL THE WORK IS COMPLETE AND ALL NECESSARY PERMITS OBTAINED.

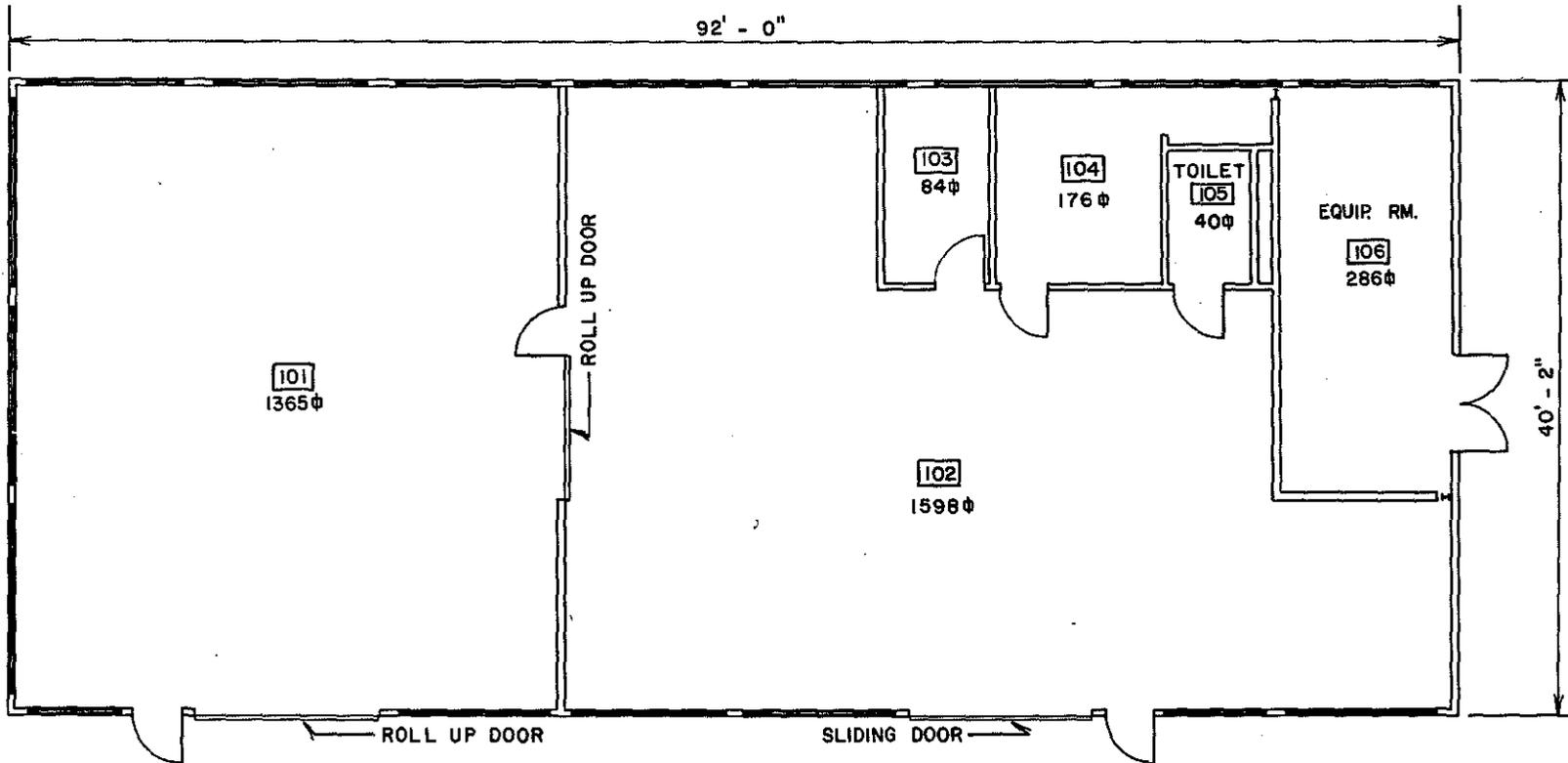
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SCALE	1" = 10'
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EXTERIOR PLATFORM INSTALLATION PLOT PLAN	
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U.S. GOVERNMENT PRINTING OFFICE: 1964 O 354-001



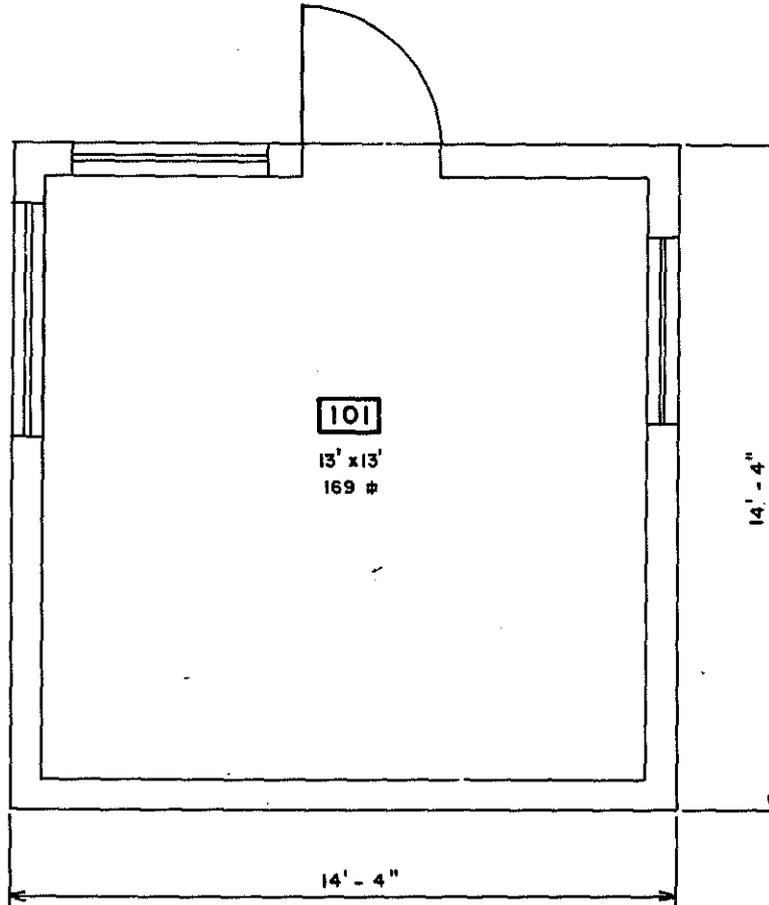
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Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545			
FACILITIES ENGINEERING DIVISION					
PASSAGEWAY FLOOR PLAN					SEC. CLASSIFICATION
BLDG. R-245					TA-15
SUBMITTED		RECOMMENDED		APPROVED	
<i>W. Trujillo</i>		<i>Don King</i>		<i>W. R. G. Galt</i>	
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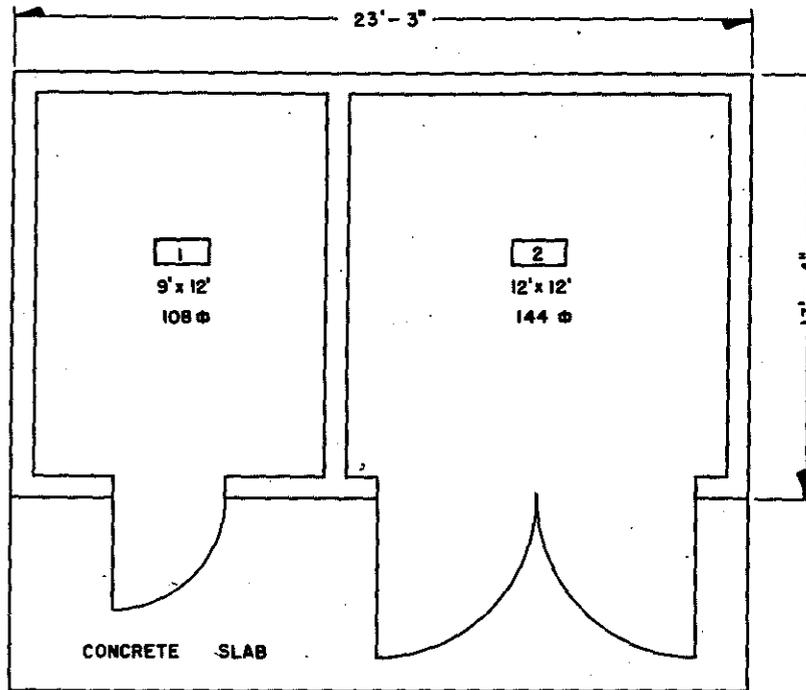
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Los Alamos		Los Alamos National Laboratory Los Alamos, New Mexico 87545			
FACILITIES ENGINEERING DIVISION					
BRANCH SHOP AND LAB BLDG.				SEC. CLASSIFICATION	
FLOOR PLAN				CLASS.	H
BLDG. R-20				REVIEWER	<i>Humble</i>
TA-15				DATE	10-17-83
SUBMITTED		RECOMMENDED		APPROVED	
<i>E. Trujillo</i>		<i>Darin Rigg</i>		<i>W. T. ...</i>	
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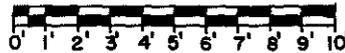
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GUARD STATION FLOOR PLAN					SEC. CLASSIFICATION
BLDG. R-30					CLASS. <i>U</i>
TA-15					REVIEWER <i>Humboldt</i>
					DATE <i>10-17-83</i>
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DRAWN	G. MARTINEZ	DATE	SHEET NO.	DRAWING NO.	
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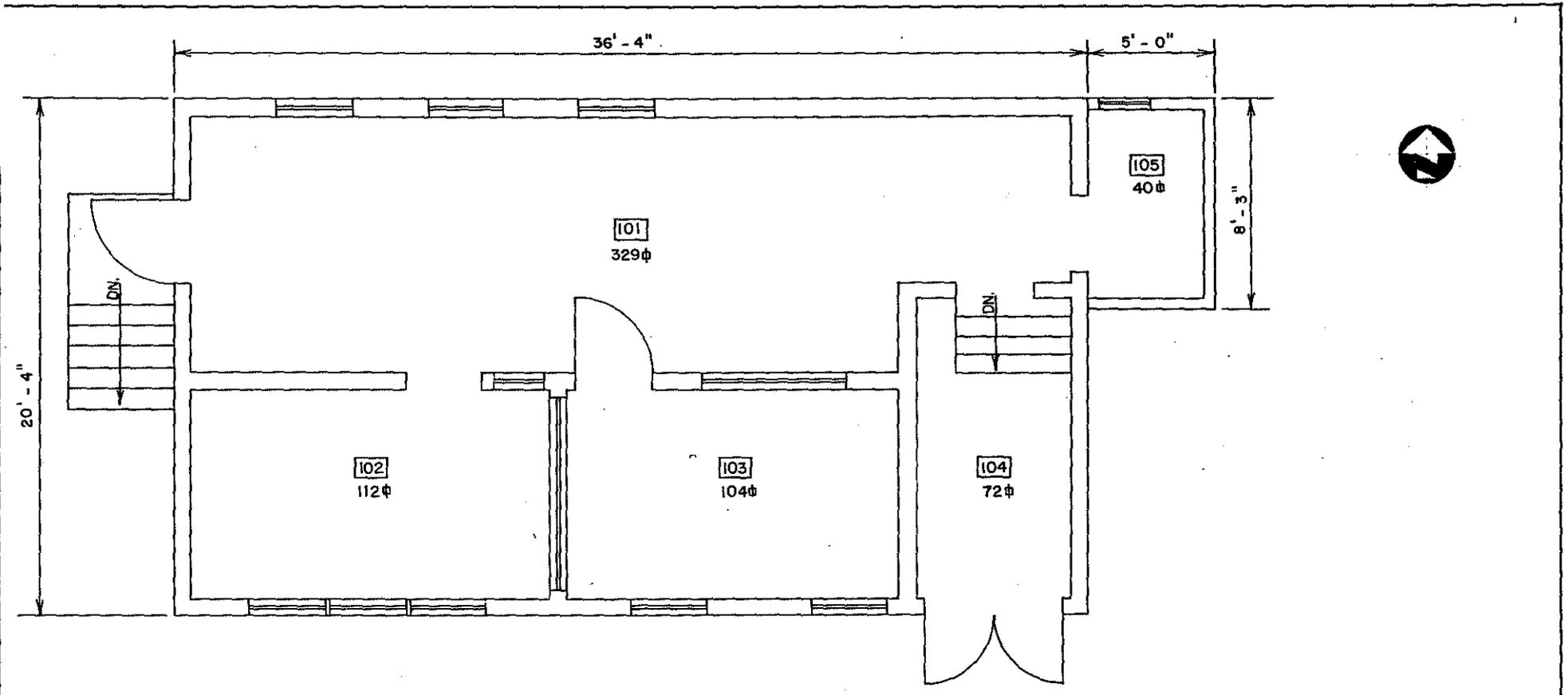


GRAPHIC SCALE

TOTAL SQ. FT. 252

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FACILITIES ENGINEERING DIVISION					
EXPLOSIVES PREP BLDG. FLOOR PLAN					SEC. CLASSIFICATION
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TA-15					REVIEWER <i>Rosen</i>
					DATE 10-17-83
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CHECKED <i>Thompson</i>	H&N				

REC'D LOGGED TO VAULT 11-22-83



TOTAL $\frac{\text{ft}^2}{657}$

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LABORATORY BLDG.					SEC. CLASSIFICATION
FLOOR PLAN					CLASS. 4
BLDG. R-23					REVIEWER <i>Shadud</i>
TA-15					DATE 10-17-83
SUBMITTED <i>G. Trujillo</i>		RECOMMENDED <i>Dawn King</i>		APPROVED <i>W. T. ...</i>	
DRAWN	KENNEDY HBN	DATE	8-31-83	SHEET NO.	1 of 1
CHECKED	<i>Humble</i> HBN			DRAWING NO. ENG-R2712	

Appendix C

Site Forms for Burned Buildings

NEW MEXICO HISTORIC BUILDING INVENTORY FORM

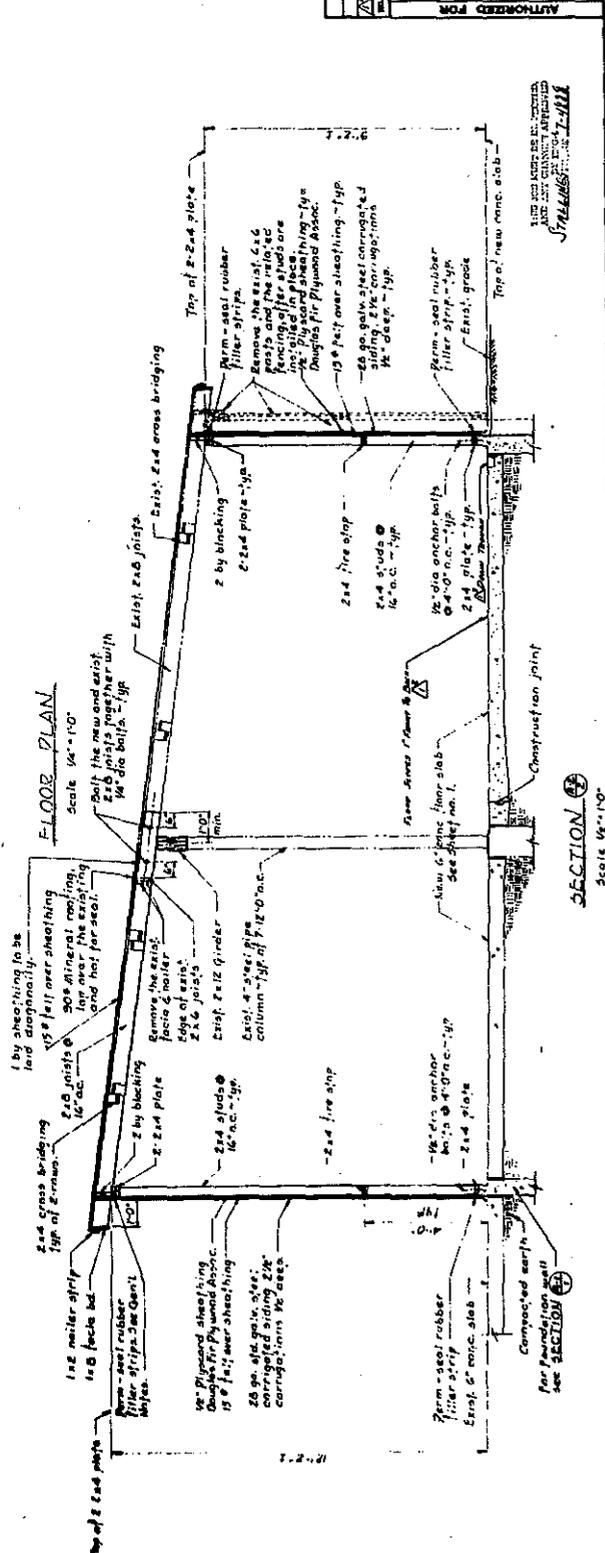
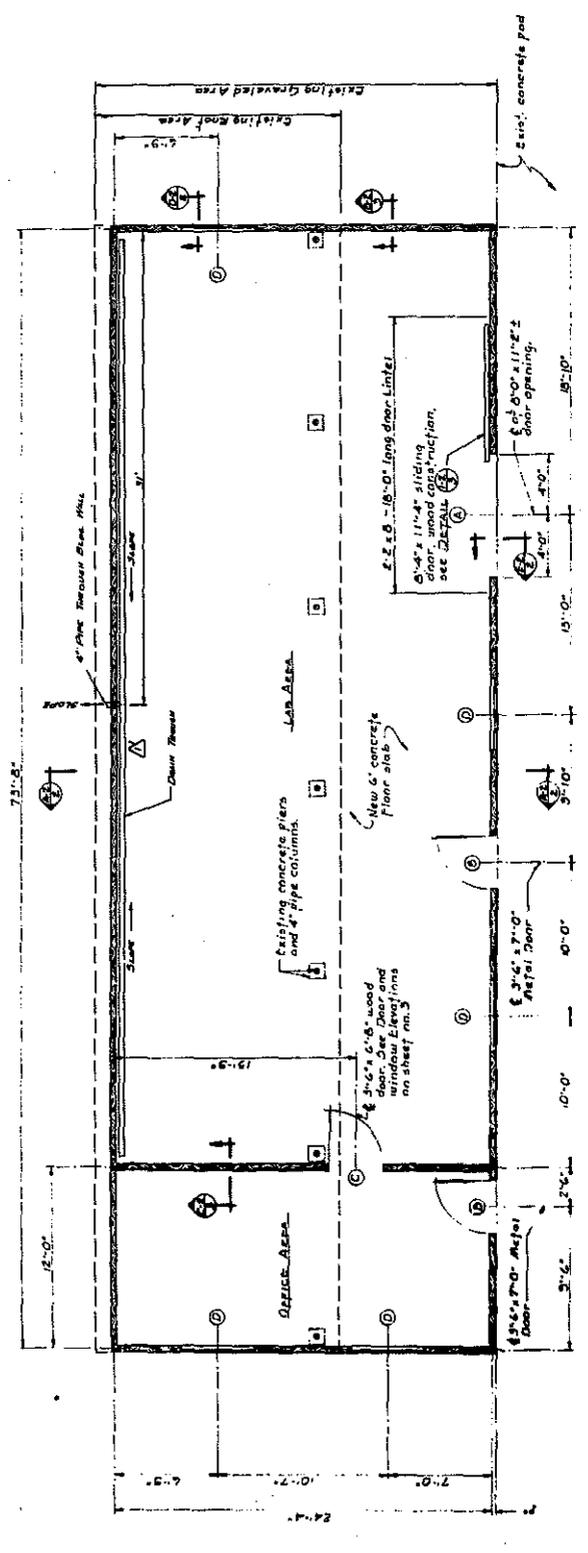
LA#

building threatened? yes	surveyed date 11/6/2000 by K. L. M. Garcia	County Los Alamos	ID no. TA-15-50
field map USGS Guaje Mountain 7.5 Minute Quad	number	UTM reference: easting 381,776 northing 3,967,282 zone 13	
location description Technical Area (TA) 15, The Hollow Site		city/town Los Alamos	land grant/reservation n/a
building name TA-15-50, Original name Staff Shop		legal description USGS Guaje Mountain 7.5 Series tnsp 19N range 6E sec N/A	
film roll by nos. digital photos by ESH-20	Negative nos. digital photos on file with ESH-20 by building number: Velma- 2351,2356-2359, 2392-2394	location of neg. LANL, ESH- 20	date of construction ____ estimate 11/1/49 actual source Facility & Waste Operations Division Facility Data Services Group (FWO-FDS) records (LANL)
Style TA-15-50 was a wood framed structure with a slanted roof. (see below for more information)	Foundation material Concrete piers and pipe columns covered with a concrete slab and diagonally laid sheathing. Wall material/surface The exterior surface was covered with corrugated steel sheet siding.	Use <u>present</u> residential X other TA-15-50 was destroyed by the Cerro Grande Fire on May 10, 2000 <u>historic</u> residential X other Building 50 was been used as a storage shed, storage building and as a laboratory. Prior to 1957 this structure was an open shed.	Condition ____ excellent ____ fair to ____ good ____ deteriorating __X__ destroyed by fire
degree of remodeling ____ minor ____ moderate ____ major describe: In June of 1957, an addition was made to Building R-50. Modifications included installing a new studded wall to replace the wooden fence that had previously served as the rear wall. A wood frame wall with corrugated steel sheet siding was constructed on all four sides of the newly poured concrete pad. Five steel sash windows, two personnel doors and an equipment door were also installed at this time. An equipment room was added to the north end of TA-15-50 in August of 1957. The walls of the new addition were constructed of gypsum board, Plyscard sheathing, felt and standard galvanized corrugated steel siding. In 1964, alterations were made to the deionized water cooling system and a Pyr-a-larm was installed in 1969.	Surroundings Developed Laboratory Technical Area 15	Relationship to surroundings X similar ____ not similar	district potential ____ yes X no

<p>Significance _____ Eligible _____ of interest <u> X </u> none if not eligible, why? Burned</p>	<p>associated buildings? <u> X </u> yes what type? Industrial laboratory type building</p> <p>if inventoried, list ID nos.</p> <p>All of R-Site/ TA-15</p>	<p>Photos and plan drawings are on following pages</p> <p>ENG-C 650 Storage Shed R-50 at Assembly Bldg R-20 October 5, 1949</p> <p>ENG-C 19164 (sheet 1 of 4) Building R-50 Addition Concrete Floor Slab June 13, 1957</p> <p>ENG-C 19165 (sheet 2 of 4) Building R-50 Addition Floor Plan and Section June 13, 1957</p> <p>ENG-C 19166 (sheet 3 of 4) Building R-50 Addition Sections and Details June 13, 1957</p> <p>ENG-C 18702 (sheet 1 of 1) Addition No. 2 August 30, 1957</p> <p>ENG-R 2726 (sheet 1 of 1) Shop & Laboratory Building Floor Plan September 2, 1983</p> <p>size: Total Gross 2088 ft²</p>
<p>architectural features: TA-15-50 was a wood framed building with a slanted roof made of felt, sheathing and a mineral roofing material.</p> <p>There were two intermediate steel sash windows located along the north elevation of the structure.</p> <p>The east elevation of TA-15-50 adjoined the west elevation of passageway TA-15- 371.</p> <p>An intermediate steel sash window was located near the east end of the south elevation of the building.</p> <p>The west elevation of Building 50 was connected to the east elevation of TA-15-239.</p>		<p>Eligibility: Not Eligible</p>



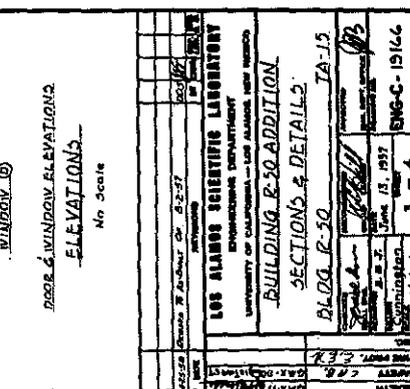
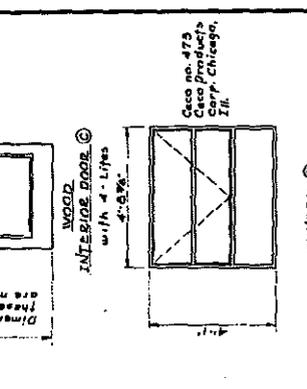
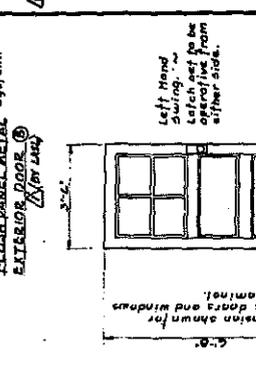
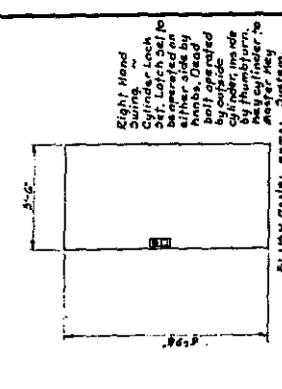
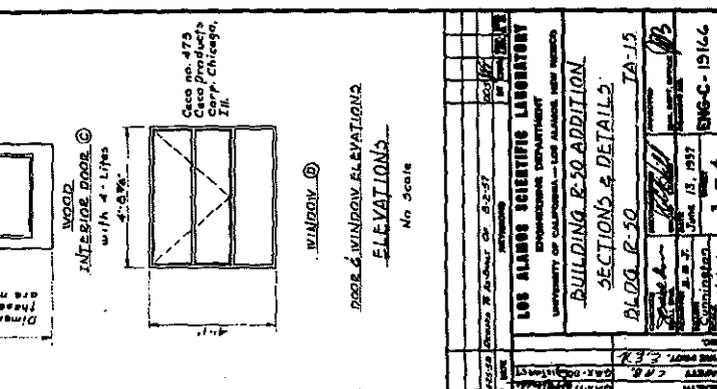
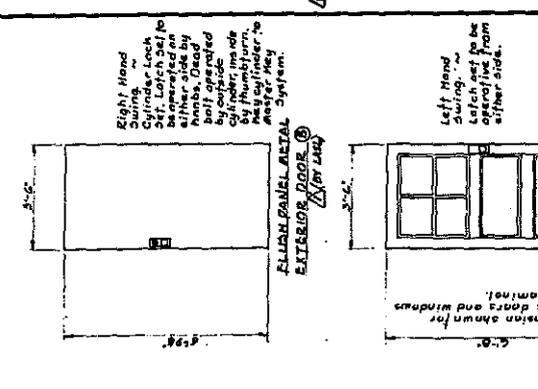
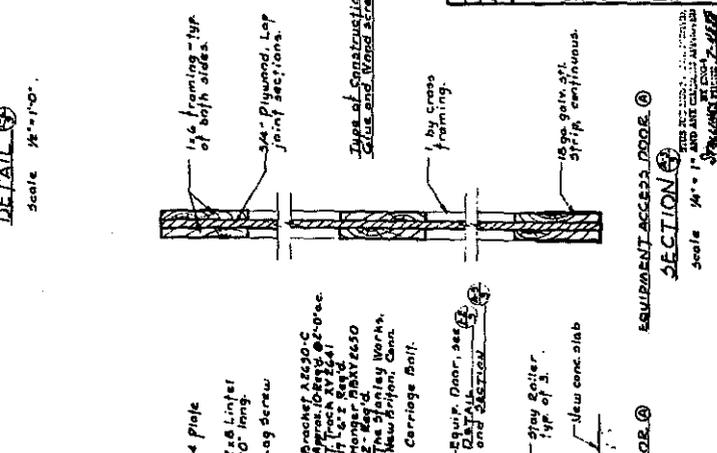
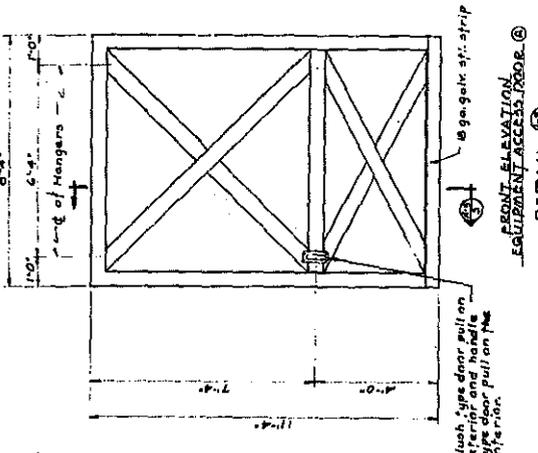
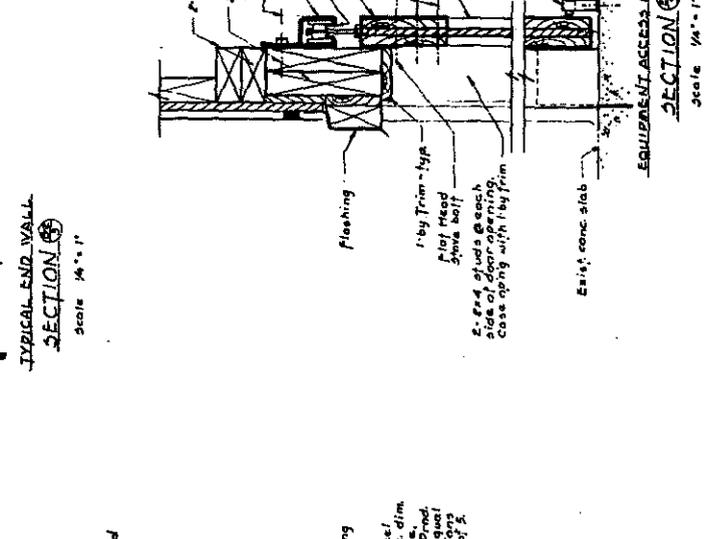
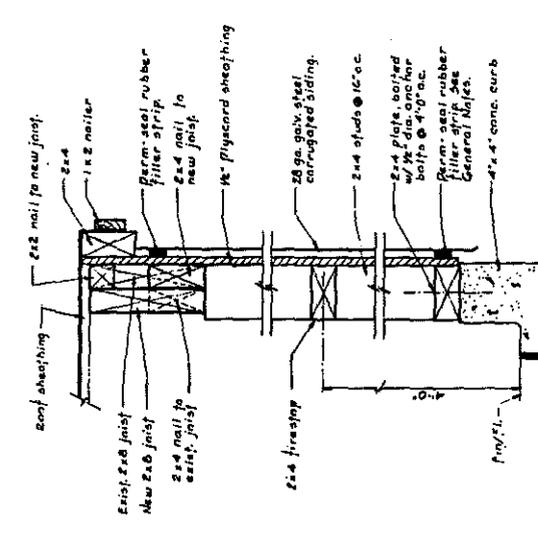
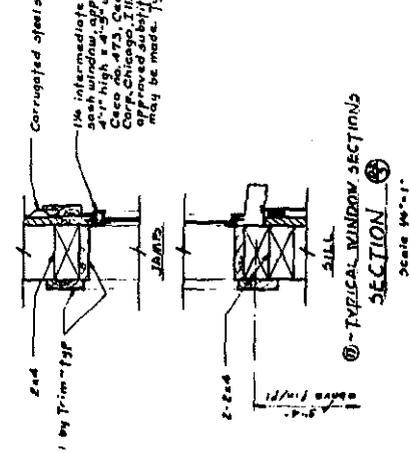
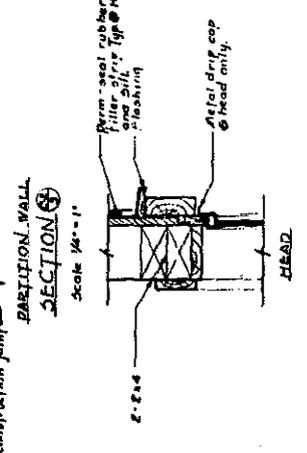
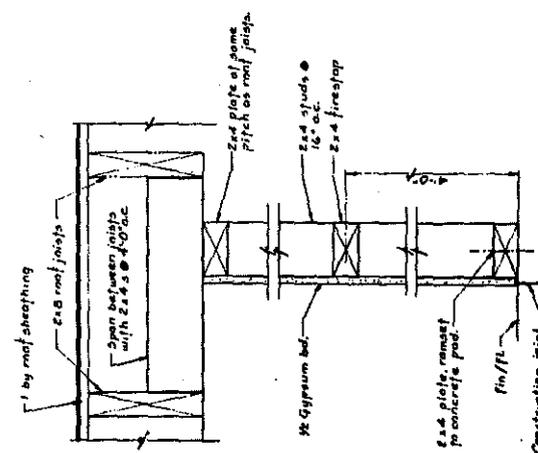
TA-15-194, TA-15-371, TA-15-50, TA-15-239, and TA-15-203



DATE	2012
BY	...
CHECKED	...
APPROVED	...
LOS ALAMOS SCIENTIFIC LABORATORY	
UNIVERSITY OF CALIFORNIA - LOS ALAMOS, NEW MEXICO	
ENGINEERING DEPARTMENT	
BUILDING R-50 ADDITION	
FLOOR PLAN & SECTION	
BLDG. R-50	
TA-12	
SCALE	1/4" = 1'-0"
DATE	JUNE 15, 1937
BY	...
CHECKED	...
APPROVED	...
ENG-C-19165	
S.A. NO. 2024	

THIS SET AND ALL SPECIFICATIONS AND CONTRACT AGREEMENTS ATTACHED HERETO SHALL BE KEPT TOGETHER AS ONE SET.

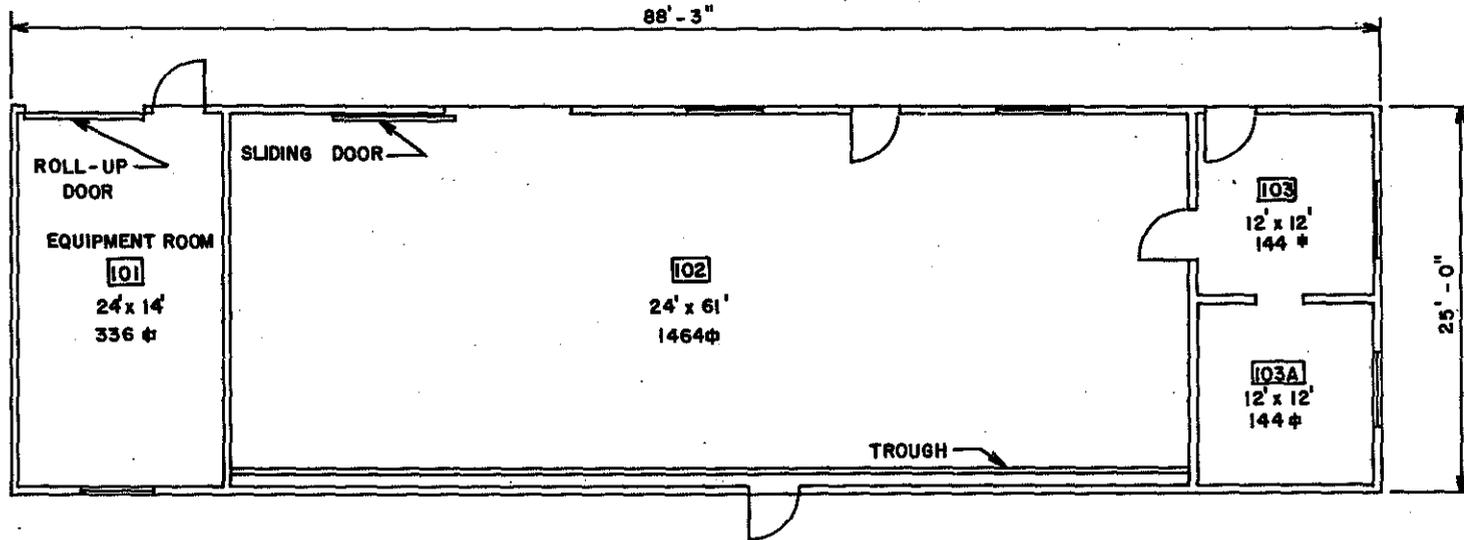
SECTION
Scale 1/4" = 1'-0"



NO.	REVISION	DATE	BY	CHECKED
1	AS SHOWN	12-27-57	J.A.	J.A.
2	REVISION			
3	REVISION			
4	REVISION			

100 ALABAMA SCIENTIFIC LABORATORY
UNIVERSITY OF CALIFORNIA - LOS ANGELES CAMPUS
BUILDING R-30 ADDITION
SECTIONS & DETAILS
BLDG. R-30
J.A. 15
JAN 13, 1957
SNG-C-19166
3 of 4

U.S. GOVERNMENT PRINTING OFFICE: 1957 O-20224



1/8" = 1'-0"



TOTAL $\frac{ft^2}{2088}$

REV.	DATE	REVISION	BY	CHKD. APPR.
1	9-2-83	REDRAWN & REVISED TO STATUS OF 9-2-83	H&N	W.D.
UNIVERSITY OF CALIFORNIA Los Alamos Los Alamos National Laboratory Los Alamos, New Mexico 87545				
FACILITIES ENGINEERING DIVISION				
SHOP & LABORATORY BUILDING FLOOR PLAN				SEC. CLASSIFICATION
BLDG. R-50				CLASS. U
TA-15				REVIEWER <i>H&N</i>
				DATE 10-17-83
SUBMITTED <i>G. Trujillo</i>		RECOMMENDED <i>Damon Papp</i>		APPROVED <i>W.T. Elbertson</i>
DRAWN G. MARTINEZ	DATE 9-2-83	SHEET NO. 1 OF 1	DRAWING NO. ENG-R 2726	
CHECKED <i>H&N</i>				

LOGGED TO VAULT 11-22-83

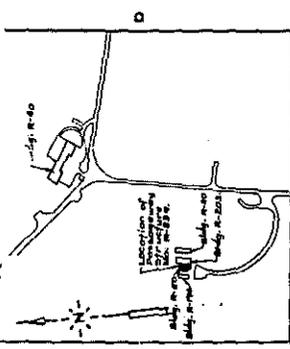
NEW MEXICO HISTORIC BUILDING INVENTORY FORM

LA#

building threatened? yes	surveyed date 11/6/2000 by K. L. M. Garcia	County Los Alamos	ID no. TA-15-239
field map USGS Guaje Mountain 7.5 Minute Quad	number Technical Area (TA) 15, The Hollow Site	UTM reference: easting 381,782 northing 3,967,277 zone 13	
location description Technical Area (TA) 15, The Hollow Site		city/town Los Alamos	land grant/reservation n/a
building name TA-15-239, Original name R-239, Passageway		legal description USGS Guaje Mountain 7.5 Series tnsp 19N range 6E sec N/A	
film roll by nos. digital photos by ESH-20	Negative nos. digital photos on file with ESH-20 by building number: Velma- 2351,2356-2359, 2392- 2394	location of neg. LANL, ESH-20	date of construction ____ estimate 5/7/65 to 8/5/65 actual source Facility & Waste Operations Division Facility Data Services Group (FWO-FDS) records (LANL)
Style TA-15-239 was a wooden structure with a corrugated metal roof. (see below for more information)	Foundation material Asphalt paving Wall material/surface The exterior walls of TA-15-239 were constructed of wooden joists.	Use present residential ✓ other TA-15-239 was destroyed by the Cerro Grande Fire on May 10, 2000 historic residential ✓ other Originally, structure 239 acted as a passageway between TA-15-50 and TA-15-203	Condition ____ excellent ____ fair to ____good ____deteriorating ____X destroyed by fire.
degree of remodeling ____ minor ____ moderate ____major describe: There is no evidence that remodeling was conducted at TA- 15-239.	Surroundings Developed Laboratory Technical Area 15	Relationship to surroundings ____X similar ____ not similar	district potential ____ yes ____X no
Significance ____ Eligible ____ of interest ____X none if not eligible, why? Burned	associated buildings? ____X yes what type? Industrial laboratory type building if inventoried, list ID nos. All of R-Site/ TA-15	Photos and plan drawings are on following pages ENG-C 20669 (sheet 1 of 1) Passageway R-239: From Bldg. R-50 to Bldg. R-203 Plan and Details April 23, 1965 size: approximately 280 ft ²	
architectural features: TA-15-239 was a wooden passageway located between buildings 50 and 203. The wooden roof was covered with galvanized corrugated steel roofing material. There are eight light green corrugated plastic skylights located in the roof. The east elevation of the passageway connected to the west elevation of TA-15-203. The west elevation of TA-15-239 adjoined the east elevation of TA-15-50. There is no available information on the architectural features along the north and south elevations of TA-15-239.			Eligibility: Not Eligible



TA-15-194, TA-15-371, TA-15-50, TA-15-239, and TA-15-203



LOCATION PLAN
STRUCTURE NO. R-239-TA-12

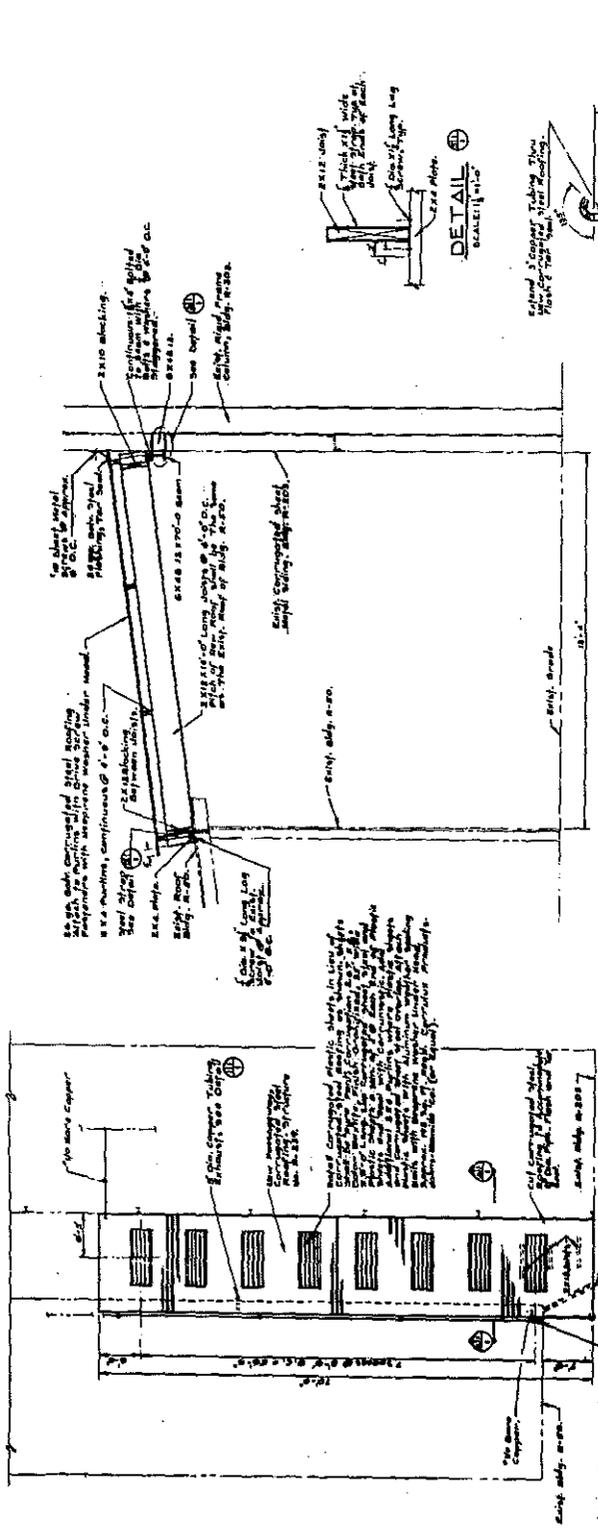
GENERAL NOTES

- All new concrete shall be Class 3, 3000 P.S.I. in 28 days.
- As shown on this plan, structural steel members shall be of the type and size indicated. The steel shall be of the type and size indicated. The steel shall be of the type and size indicated.
- Structural steel members shall be of the type and size indicated. The steel shall be of the type and size indicated.
- Shop drawings shall be submitted for approval of the Engineer before fabrication.
- Shop drawings shall be submitted for approval of the Engineer before fabrication.

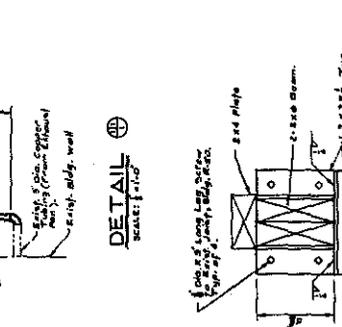
LEGEND

- Existing
- Proposed
- Contained

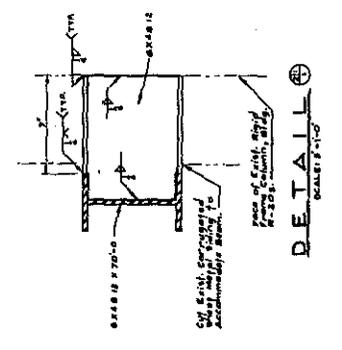
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA, LOS ALAMOS, NEW MEXICO
PASSAGEWAY R-239
FROM BLDG. 60 TO BLDG. R-239
- PLAN AND DETAILS -
STRUCTURE NO. R-239-TA-12
DATE: 11/1/54
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]
C.A. NO. [] S.A. NO. []
BNC-C20669
L.A. NO. 2792-17



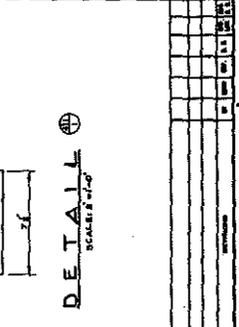
SECTION 1
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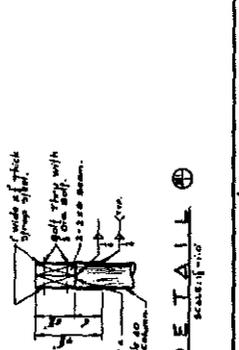
DETAIL 1
SCALE: 1/4" = 1'-0"



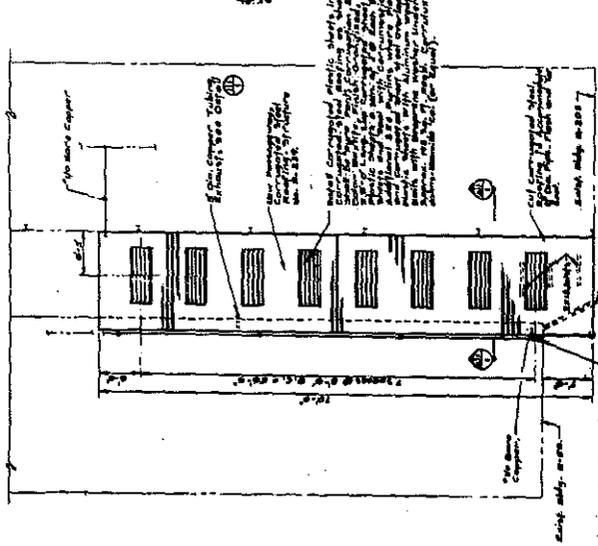
DETAIL 2
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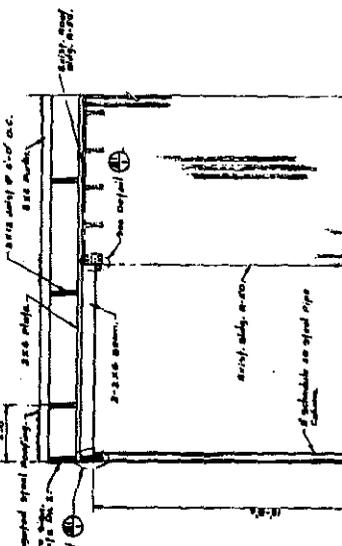
DETAIL 3
SCALE: 1/4" = 1'-0"



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



SECTION 2
SCALE: 1/4" = 1'-0"



DETAIL 5
SCALE: 1/4" = 1'-0"

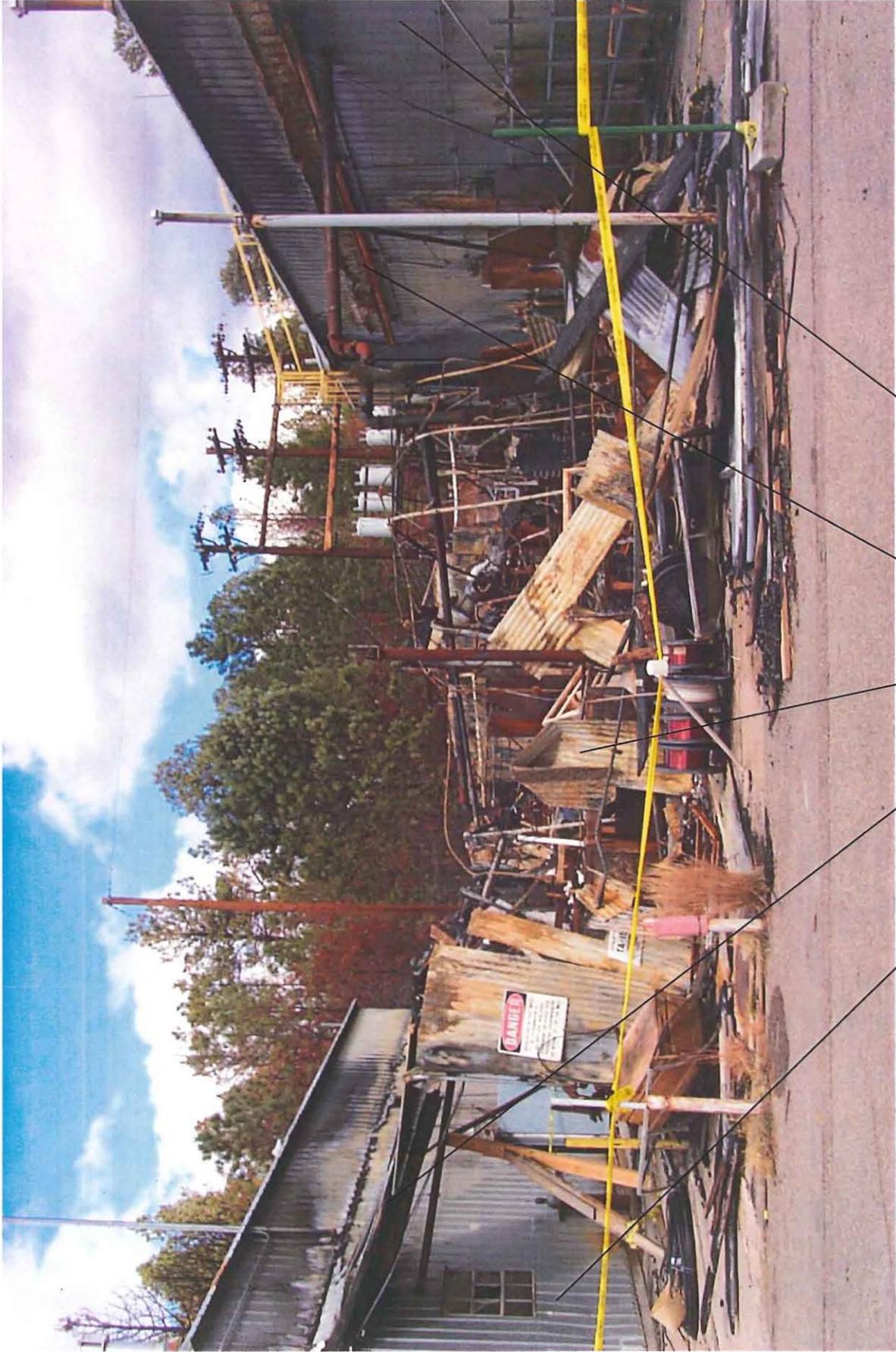
NO.	REV.	DATE	BY	DESCRIPTION

NEW MEXICO HISTORIC BUILDING INVENTORY FORM

LA#

building threatened? yes	surveyed date 11/6/2000 by K. L. M. Garcia	County Los Alamos	ID no. TA-15-371
field map USGS Guaje Mountain 7.5 Minute Quad	number	UTM reference: easting 381,771 northing 3,967,283 zone 13	
location description Technical Area (TA) 15, The Hollow Site		city/town Los Alamos	land grant/reservation n/a
building name TA-15-371, Original name R-371, Passageway		legal description USGS Guaje Mountain 7.5 Series tnsp 19N range 6E sec N/A	
film roll by nos. digital photos by ESH-20	Negative nos. digital photos on file with ESH-20 by building number: Velma- 2351,2356-2359, 2392-2394	location of neg. LANL, ESH- 20	date of construction <u>9/1/1960</u> estimate ___ actual ___ source Facility & Waste Operations Division Facility Data Services Group (FWO-FDS) records (LANL)
Style TA-15-371 was a wooden structure with a corrugated steel roof. (see below for more information)	Foundation material Concrete slab Wall material/surface The exterior walls of TA-15-371 were constructed of wooden joists.	Use <u>present</u> residential 4 other TA-15-371 was destroyed by the Cerro Grande Fire on May 10, 2000 <u>historic</u> residential 4 other Originally, structure 371 acted as a passageway between TA-15-50 and TA-15-194	Condition ___ excellent ___ fair to ___ good ___ deteriorating <u>X</u> destroyed by fire
degree of remodeling ___ minor ___ moderate ___ major describe: There is no evidence that remodeling was conducted at TA-15-239.	Surroundings Developed Laboratory Technical Area 15	Relationship to surroundings <u>X</u> similar ___ not similar	district potential ___ yes <u>X</u> no
Significance ___ Eligible ___ of interest <u>X</u> none if not eligible, why? Burned	associated buildings? <u>X</u> yes what type? Industrial laboratory type building if inventoried, list ID nos. All of R-Site/ TA-15	Photos and plan drawings are on following pages ENG-C 21629 Storage Area Cover between R-194 and R-50 September 1, 1960 (listed as drawing for Bldg. R- 194) size: approximately 280 ft²	

<p>architectural features: TA-15-371 was a wooden with a wooden roof that was covered with galvanized corrugated steel roofing material. There were eight light green corrugated plastic skylights located in the roof.</p> <p>The east elevation of the passageway connected to the west elevation of TA-15-50.</p> <p>The west elevation of TA-15-239 adjoined the east elevation of TA-15-194.</p> <p>There is no available information on the architectural features along the north and south elevations of TA-15-371.</p>	<p>Eligibility: Not Eligible</p>
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TA-15-194, TA-15-371, TA-15-50, TA-15-239, and TA-15-203

