INTERNATIONAL TECHNOLOGY CORPORATION

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Project No. 301215.02.01A
December 1988

Volume I (TA-0 through TA-5)

Solid Waste Management Units Report

Los Alamos National Laboratory
Los Alamos, New Mexico

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12245

RESPONSIVE TO THE NEEDS OF ENVIRONMENTAL MANAGEMENT

Solid Waste Management Units Report

DRAFT

INTRODUCTION

Background

The U.S. Environmental Protection Agency (EPA) derives authority from the Resource Conservation and Recovery Act (RCRA), Section 3008(h) to issue "corrective action orders" and require other action by owners and operators in response to releases of hazardous waste or constituents from interim status treatment, storage, and disposal facilities. The definition of release is broadly interpreted by EPA to include any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (50 FR 28713, July 15, 1985). Routine and systematic releases are considered by EPA to constitute waste management, regardless of whether the release is deliberate or unintentional (EPA, 1987). Waste management units from which such releases have occurred, as well as areas contaminated by releases, are considered solid waste management units (SWMUs).

Thus, a facility seeking an operating permit or post-closure permit must perform corrective action for all releases of hazardous waste or constituents into virtually any environmental medium from a SWMU located within the property boundary. If corrective action is not completed by the time a permit is issued, Section 3004(u) of RCRA provides that the permit may be issued, but must include corrective action compliance schedules. The compliance schedule can consist of a schedule for completing corrective action, or a schedule for gathering the information necessary to determine the appropriate corrective action. When the permit is modified at a later date to incorporate more specific corrective action, the modification is considered a major modification and subject to public participation requirements.

The corrective action process can be divided into three phases: site assessment, remedial investigations and development of proposed corrective actions, and selecting and performing corrective actions.

This report fulfills the first phase of this process and is responsive to EPA regulations at 40 CFR 270.14(d), which require that applicants for operating or post-closure permits submit "reasonably available" information identifying

SWMUs at the facility and their potential for or extent of release. Specific information requirements are:

- The location of the unit on a topographic map
- Designation of the type of unit
- General dimensions and structural description (including available drawings)
- Period of operation
- Specification of all wastes that have been managed at the unit, to the extent available.

Extensive information on solid waste management units located at Los Alamos National Laboratory (LANL) has been submitted to or compiled by EPA previously. LANL has provided information in a different format to the New Mexico Environmental Improvement Division (NMEID) Region VI and EPA as part of Phase I (preremediation activities) of its Comprehensive Environmental Assessment and Response Program (CEARP) conducted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (DOE, 1987). Additional information was collected by A. T. Kearney, Inc. under contract to EPA, and resulted in completion of a RCRA Facility Assessment (RFA) for the facility (EPA Contract No. 68-01-7374) (Kearney, 1987). Finally, a report describing solid waste management units located in areas at the facility that have been decommissioned and no longer in use was included in the post-closure application submitted to the NMEID and EPA Region VI in September 1988.

This report describes solid waste management units located in the active portions of the facility and, in addition, incorporates the information on units located in decommissioned areas submitted in the post-closure permit application. The report is, therefore, a complete compilation of currently-available information specifically directed towards the requirements of 40 CFR 270.14(d).

Identification of Solid Waste Management Units

The nature of the research activities conducted at LANL during and since World War II has resulted in a large number of SWMUs of virtually all types. Research activities are conducted at designated technical areas (TAS) located

throughout the 43 square-mile facility. As a comprehensive effort, this report examines all TAs within the facility boundary, in addition to (although not required), noncontiguous TAs and areas previously owned by the Department of Energy (DOE) and the Atomic Energy Commission (AEC) in Los Alamos, but now under different ownership (e.g., Los Alamos County, U.S. Forest Service). TA-17, -34, -38 -58, -60, -61, -62, -63, -64, -65, and -66 are designated areas at LANL but have not yet been constructed and, therefore, are not addressed in this report (TA-66 has an office building which is currently under construction. The sanitary facilities will be served by a 5,000 gallon septic tank and seepage pit. Only sanitary waste will be received by the septic system).

The activities conducted by the facility are in many cases unique and have resulted in the creation of SWMUs not addressed by published EPA guidance documents and policy directives. In addition, many of the SWMUs at the facility manage radioactive or radioactive-mixed waste. Although radioactive waste consisting of source, special nuclear, or by-product material is subject to Atomic Energy Act requirements and exempt from the definition of solid waste under RCRA, no distinction has been made in this report; all units containing radioactive waste have been included. Hazardous waste that is mixed with nonexempt radioactive material is subject to corrective action requirements. These also have been addressed in this report.

The following is a description of the problematic areas encountered during this survey with regard to unit identification and the grouping of units.

Bunkers and Magazines

Bunkers and magazines used for the storage of high-explosive materials (nonwaste) have not been included as solid waste management units. Decommissioning of these units requires removal of all stored explosives and then burning the structure. Any noncombustible debris remaining is typically landfilled. Descriptions of the known landfills receiving such debris, however, are, included in this report.

Drains and Waste Lines

Many floors and sinks in buildings throughout the facility drain to waste lines that direct waste to a specific treatment, storage, or disposal unit or

directly to an outfall (the use of drains that discharge directly to outfalls generally has been limited to spills and inadvertent releases). These drains and waste lines have not been included in this report unless a known release has occurred (e.g., seepage through joints, pipe rupture, etc.). Determination as to whether a release has occurred is generally made at the time a waste line is decommissioned. Any releases of wastes that occur during routine operations utilizing functional drains and waste lines are, in general, noted under the description of the treatment, storage, or disposal unit receiving the waste (e.g., waste lines from structures located in several TAs lead to the TA-50 treatment plant; these lines are noted in the description of that unit).

Outfalls

All National Pollution Discharge and Elimination System (NPDES) outfalls are shown on the map(s) accompanying each TA summary. Information describing NPDES-permitted and known inactive outfalls is provided in Appendix A to this report. (This appendix is subject to revisions based on additional information or the construction of new facilities.) Inactive outfalls that discharged prior to implementation of the NPDES program are described in a TA summary only if routine and systematic releases of hazardous constituents are known or suspected to have occurred.

Air Stacks

No active air stacks are associated with the decommissioned technical areas. A listing of air stacks in operation throughout the active portions of the facility is provided in Appendix B to this report. A comprehensive report on air emissions from the facility currently is in progress to meet SARA Title III requirements. The results of this study were not available during preparation of this report. Where available information documents or suggests significant soil deposition of particulates contained in stack emissions, these areas have been described in this report.

Underground Storage Tanks

All known underground storage tanks previously or currently used for the storage of wastes have been included. Underground tanks used only for storage of products, fuel, or other nonwaste materials have not been included unless a

release is known or suspected to have occurred. (In some cases, tank testing data indicates that the integrity of the tank is such that a release potentially could occur; in others, observations during tank removal were sufficient to make this determination.)

Closed/Decommissioned Units

All closed or decommissioned solid waste management units have been described, regardless of whether releases have occurred.

Contaminated Buildings

Several buildings and other structures at the facility have become contaminated with radionuclides or chemicals and are awaiting decommissioning. Descriptions of these buildings, per se, have not been included in this report, as they are not considered wastes.

Septic Systems

A septic system typically consists of a tank (and associated waste lines) that discharges to a leach field, seepage bed, or outfall. All components of a septic system are grouped as one unit. Sanitary waste, not chemically contaminated and managed in septic tanks, is exempt from the definition of solid waste. Sanitary waste that is chemically mixed, treated by a publicly-owned treatment works is similarly exempt. Regardless of these exemptions, units discharging or managing such wastes have been described in this report, unless the unit was known to have received only uncontaminated sanitary waste, such as those systems that serve as guard stations.

Container Storage Areas

All areas storing containerized wastes are described. Product, fuel, or raw material storage areas are included only if known releases have occurred.

Firing Sites

Firing sites typically are used for experimentation involving high explosives. Because residues of hazardous materials, including metals and reactives, may potentially remain at a firing site, the surrounding soil or structural remains may be considered a solid waste management unit. Thus, all known firing sites are described in this report.

Report Organization

Descriptions of solid waste management units at the facility are grouped by TA. The tabs separating each TA summary are color-coded: white tabs signify active technical areas; gray tabs signify inactive or decommissioned areas.

Each TA summary begins with a brief description of its site operations and environmental setting. These descriptions are based on information contained in the following reports:

- Comprehensive Environmental Assessment and Response Program; Phase I: Installation Assessment - Los Alamos National Laboratory (DOE, 1987-draft)
- Hydrogeologic Assessment of Technical Area 54, Areas G and L, Los Alamos National Laboratory (IT Corp., 1987)
- Soil Survey of Los Alamos County, New Mexico (LANL, 1978)

The unit descriptions include the name, type, and period of operation for each unit. The unit description includes all current, reasonably obtainable information on the unit, including location, dimensions and materials of construction. Waste information is provided and is as detailed as current information allows. Where possible, the potential for release is described and includes any available information on the nature and extent of any actual releases.

Maps indicating the known locations of units are included at the end of each TA summary. Each unit is identified by an alphanumeric code found in the unit description. Units for which locations cannot be established are listed on the figure index which precedes the maps.

Correlation of SWMUs with Previously Identified Units

The following tables provide a correlation between SWMUs described in this report and units identified in the LANL Environmental Restoration (ER) Program and the RFA. Table 1 cross-references SWMUs from this report with ER Program units and RFA units. Additionally, Table 1 indicates which units have been

recommended by the EPA for further action, as well as the laboratory-designated structure numbers for all units.

Table 2 is a list of the ER Program units which have not been described as SWMUs in this report and the rationale for their exclusion. Similarly, Table 3 lists the units identified in the RFA which have not been addressed as SWMUs in this report and the basis for excluding them.

These tables were developed based on a preliminary draft of this report and may not reflect changes made in the text during the final review process. These tables will be revised in the near future to incorporate these changes and as any additional information becomes available.

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-0					
	0-001	**	**		
	0-002	**	0.001	*	
			0.003	*	
			0.004	*	
			0.005	*	
			0.006	*	
	0-003	**	**		TA-0-1051
	0-004	**	**		
	0-005	TA0-19-CA-I-RW	**		
	0-006	TA0-6-L-A-SW	0.002	*	
	0-007	TA0-4-L-I-HW/RW/PP	0.007	*	
		TA0-10-OL-I-SW	**		
	0-008	TA0-10-OL-I-SW	**		
	0-009	MDA-M	**		MDA-M
	0-010	TA0-13-OL-I-RW/HW	**		NORTH OF TA-21
		TA0-5-CA-I-HW			
	0-011	TA0-11-CA-I-HW	**		RENDIJA CANYON, TA-27
					BARRANCA CANYON, PAJARITO CANYON
					37-mm CANYON
					TA-20
	0-012	TA0-21-S-A-HW	**		TA-0-1051
	0-013	TA0-17-0/IN-I-HW	**		TA-0-139
					TA-0-1123
	0-014	TA0-3-IN/OL-I-HW	0.012	*	TA-0-1123
	0-015	TA0-2-CA-A-HW	**		TA-0-274
					TA-0-1078
	0-016	TA0-1-CA-I-HW	**		
	0-017	TA0-22-ST-I/A-HW	**		
	0-018	TA0-16-CA/S-I-HW/RW	**		
	0-019	TA0-15-0/CA-A/I-HW/RW	**		
	0-020	TA0-15-0/CA-A/I-HW/RW	**		
TA-1					
	1-001	TA1-2-CA-I-HW/RW	**		TA-1-134
		TA1-5-ST-I-HW/RW			TA-1-135, TA-1-268
					TA-1-137, TA-1-269

** NO CORRESPONDING E R PROGRAM OR RFA UNIT
* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
					TA-1-138, TA-1-275
					TA-1-139, TA-1-276
					TA-1-140
					TA-1-141
					TA-1-142
					TA-1-143
					TA-1-149
	1-002	TA1-4-CA-1-HW/RW	**		
		TA1-1-CA-1-HW/RW			
	1-003	TA1-3-OL-1-RW/HW	0.011	*	TA-1-131
	1-004	TA1-6-IN-1-SW	**		TA-1-146, TA-1-147
	1-005	TA1-6-IN-1-SW	**		TA-1-68
TA-2					
	2-001	TA2-7-CA-1-HW/RW	**		
	2-002	TA2-8-CA-1-HW			NEAR TA-2-1
	2-003	TA2-1-CA-A/1-HW/RW	2.003	*	TA-2-1, TA-2-50
		TA2-2-CA/S/UST-A/1-HW/RW	2.004	*	TA-2-3, TA-2-62
			2.005	*	TA-2-19
					TA-2-48
	2-004	TA2-1-CA-A/1-HW/RW	2.001		TA-2-1
					TA-2-44, TA-2-54
					TA-2-53, TA-2-55
	2-005	TA2-5-CA-1-HW	**		TA-2-49
	2-006	TA2-1-CA-A/1-HW/RW	**		
	2-007	TA2-4-CA/ST-1-HW/RW	**		TA-2-43
	2-008	TA2-3-CA/O-A/1-HW/RW	**		
TA-3					
	3-001	TA3-1-CA-A/1-HW/RW	3.028		TA-3-16, TA-3-66, NEAR TA-3-271
			3.036		TA-3-30, TA-3-70, TA-3-382
			3.052		TA-3-34, TA-3-102, TA-3-383
			3.060		TA-3-38, TA-3-170
			3.064	*	TA-3-39, TA-3-473
			3.068	*	TA-3-40, TA-3-223
			3.095	*	TA-3-41, TA-3-316
			3.096	*	

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	3-002	TA3-1-CA-A/I-HW/RW	3.001	*	TA-3-66
			3.025		NEAR TA-3-382
			3.038	*	
			3.048	*	
			3.049		
			3.050	*	
			3.051	*	
			3.061		
			3.073	*	
			3.086	*	
	3-003	TA3-1-CA-A/I-HW/RW	3.067	*	TA-3-218
					TA-3-253
					TA-3-282
					TA-3-287
	3-004	**	3.008		TA-3-29
			3.026		
			3.027		
	3-005	**	3.062		
	3-006	TA3-12-CA-I-HW/RW	3.092	*	TA-3-12
	3-007	TA3-7-CA-I-HW	3.072	*	TA-3-160
	3-008	TA3-11-CA-I-HW/RW	**		TA-3-1
					TA-3-2
					TA-3-3
					TA-3-4
					TA-3-5
					TA-3-6
					TA-3-7
					TA-3-8
					TA-3-9
					TA-3-10
					TA-3-11
					TA-3-43
	3-009	TA3-10-OL/L-A/I-HW	**		TA-3-6, TA-3-41, TA-3-271
					TA-3-16, TA-3-70, NEAR TA-3-381
					TA-3-29, TA-3-142
					TA-3-40
	3-010	TA3-1-CA-A/I-HW/RW	3.090	*	NEAR TA-3-30

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SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	3-011	TA3-1-CA-A/I-HW/RW	**		TA-3-101
	3-012	TA3-1-CA-A/I-HW/RW	3.089	*	NEAR TA-3-1
		TA3-6-CA/O-A/I-HW/RW	**		TA-3-22
					TA-3-66
	3-013	TA3-1-CA-I/A-HW/RW	**		TA-3-38
	3-014	**	3.029		TA-3-46, TA-3-1871
			3.030		TA-3-47
			3.031		TA-3-48
			3.032		TA-3-49
			3.033		TA-3-192
			3.039		TA-3-193
			3.040		TA-3-194
			3.041		TA-3-195
			3.042		TA-3-196
			3.043		TA-3-197
			3.044		TA-3-198
			3.045		TA-3-199
			3.046	*	TA-3-166
			3.047	*	TA-3-677
	3-015	TA3-6-CA/O-A/I-HW/RW	3.088	*	NEAR TA-3-141
	3-016	TA3-2-CA/ST-A/I-HW/RW	**		TA-3-130, TA-3-1885
					TA-3-261, TA-3-1886
					TA-3-1484
					TA-3-1667
	3-017	TA3-2-CA/ST-A/I-HW/RW	**		TA-3-79
					TA-3-272
					TA-3-689
	3-018	TA3-2-CA/ST-A/I-HW/RW	**		
	3-019	TA3-2-CA/ST-A/I-HW/RW	3.091		TA-3-15
	3-020	TA3-5-CA/S/UST/SST-A/I-HW/RW	**		EAST TA-3-287
	3-021	TA3-5-CA/S/UST/SST-A/I-HW/RW	**		TA-3-170
	3-022	TA3-4-S-A/I-PP	**		TA-3-550
	3-023	TA3-4-S-A/I-PP	**		TA-3-148
	3-024	**	**		TA-3-1907
	3-025	TA3-4-S-A/I-PP	**		TA-3-34
					TA-3-102
	3-026	**	3.077		TA-3-66

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SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
			3.078		
			3.079		
	3-027	TA3-4-S-A/I-PP	3.053		TA-3-36
			3.054		TA-3-382
			3.055		
			3.056		
			3.057		
			3.058		
			3.059		
			3.071		
	3-028	TA3-8-SI-A/I-HW/RW/PP	3.037	*	NEAR TA-3-73
	3-029	TA3-8-SI-A/I-HW/RW/PP	3.063		TA-3-4
					TA-3-66
					NEAR TA-3-271
	3-030	TA3-8-SI-A/I-HW/RW/PP	**		
	3-031	TA3-5-CA/S/UST/SST-A/I-HW/RW	3.002		TA-3-29
			3.003		
			3.004		
			3.005		
			3.006		
			3.007		
			3.013		
			3.014		
			3.015		
			3.016		
			3.017		
			3.018		
			3.019		
			3.020		
			3.021		
			3.022		
			3.023		
			3.024		
			3.065		
			3.066		
			3.069		
			3.070		

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SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	3-032	TA3-5-CA/S/UST/SST-A/I-HW/RW	**		TA-3-38
	3-033	TA3-1-CA-A/I-HW/RW	3.094	*	TA-3-40
	3-034	TA3-5-CA/UST/SST-A/I-HW/RW	3.009		TA-3-154
			3.010		
			3.011		
			3.012		
	3-035	TA3-3-CA/UST/SST-A/I-PP	3.074	*	TA-3-36
			3.075	*	TA-3-382
			3.076	*	TA-3-1255
	3-036	TA3-3-CA/UST/SST-A/I-PP	3.080	*	TA-3-75
			3.081	*	TA-3-76
			3.082	*	TA-3-78
			3.083	*	TA-3-382
			3.084	*	
			3.085	*	
	3-037	TA3-6-CA/O-A/I-HW/RW	3.034		TA-3-66
			3.035		
	3-038	**	**		TA-3-700
					TA-3-738
	3-039	**	**		TA-3-43
	3-040	**	**		TA-3-30
	3-041	**	**		TA-3-1264
	3-042	TA3-4-A-A/I-PP	**		
	3-043	**	**		TA-3-718
TA-4					
	4-001	TA4-2-CA-I-HW/RW	4.003	*	TA-4-18
	4-002	TA4-1-CA-I-HW/RW	4.001	*	
TA-5					
	5-001	TA5-1-CA/L-I-HW/RW	5.003	*	TA-5-7
		TA5-4-CA-I-HW/RW	5.004	*	TA-5-15
	5-002	TA5-1-CA/L-I-HW/RW	5.001	*	
	5-003	TA5-2-CA-I-HW/RW	**		TA-5-20
	5-004	TA5-2-CA-I-HW/RW	**		TA-5-13
	5-005	**	**		TA-5-8

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-6					
	6-001	TA6-5-ST/CA-A/I-HW	6.004	*	TA-6-40
			6.005	*	TA-6-43
			6.009		
	6-002	TA6-4-ST/CA-I-HW	**		TA-6-41
	6-003	TA6-1-CA-I-HW/RW	6.007		TA-6-7
		TA6-6-UST-I-HW/PP	6.013	*	TA-6-9
					TA-6-37
	6-004	TA6-3-S-I-HW	**		EAST OF TA-6-10
	6-005	TA6-10-CA-I-HW	**		TA-6-42
	6-006	TA6-8-CA-A-HW/PP	6.003	*	TA-6-5
			6.010	*	TA-6-6
	6-007	TA6-9-L-I-HW/RW	6.001	*	MDA-F
		MDA-F	6.002	*	
			6.011	*	
			6.012	*	
			6.014	*	
TA-7					
	7-001	TA7-1-CA-A/I-HW	7.001	*	
		TA7-2-CA-I-HW	7.002	*	
			7.003	*	
TA-8					
	8-001	TA8-4-CA-A/I-HW	**		TA-8-1
		TA8-2-CA-I-HW/RW	**		TA-8-2
	8-002	TA8-1-CA-I-HW/RW	**		EAST OF TA-8-23
					SOUTH OF TA-8-1
	8-003	TA8-5-CA/ST/O-A/I-HW/RW	**		TA-8-59
					TA-8-64
					TA-8-67
	8-004	TA8-5-CA/ST/O-A/I-HW/RW	8.003		TA-8-1
		TA8-2-CA-HW/RW	**		TA-8-2
					TA-8-3
					TA-8-24
	8-005	**	**		WEST OF TA-8-2
	8-006	MDA-Q	8.001	*	MDA-Q
		TA8-7-L-I-HW/RW	**		WEST OF TA-8-21

** NO CORRESPONDING E R PROGRAM OR RFA UNIT
* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-9					
	9-001	TA9(AE)-1-CA-1-HW/RW	**		TA-9-1
		TA9(AE)-3-CA/ST/S-1-HW	**		TA-9-4
					TA-9-5
					TA-9-15
	9-002	TA9(AE)-2-CA-1-HW/RW	**		
	9-003	TA9(AE)-3-CA/ST/S-1-HW	**		TA-9-83, TA-9-62
					TA-9-84, TA-9-199
					TA-9-85
					TA-9-88
	9-004	TA9-2-CA/ST/S/O/SI-A/I-HW/RW	9.003		TA-9-84, TA-9-196
			9.004	*	TA-9-85, TA-9-197
			9.005	*	TA-9-198
			9.006	*	TA-9-184
			9.007	*	TA-9-88, TA-9-185
			9.008	*	TA-9-186
			9.009	*	TA-9-187
			9.010	*	TA-9-188
			9.011	*	TA-9-189
			9.012	*	TA-9-190
			9.013	*	TA-9-191
			9.014	*	TA-9-192
			9.015	*	TA-9-193
			9.016	*	TA-9-194
			9.017	*	TA-9-195
			9.018	*	TA-9-62
			9.019	*	
	9-005	TA9-2-CA/ST/S/O/SI-A/I-HW/RW	9.023	*	TA-9-81, TA-9-108, TA-9-211
			9.024	*	TA-9-105, TA-9-109
			9.025	*	TA-9-106, TA-9-110
			9.026	*	TA-9-107
	9-006	TA9-2-CA/ST/S/O/SI-A/I-HW/RW	**		TA-9-203
	9-007	TA9-2-CA/ST/S/O/SI-A/I-HW/RW	**		TA-9-202
	9-008	**	8.002		TA-9-212
			8.004	*	

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	9-009	**	9.020		TA-9-210
			9.021		
			9.022		
	9-010	**	**		TA-9-206
					TA-9-207
	9-011	**	9.001		TA-9-21
			9.002		TA-9-39
					NORTH OF TA-9-43
					SOUTH OF TA-9-38
	9-012	TA9(AE)-4-L-I-HW/RW	**		
TA-10					
	10-001	TA10-1-CA-I-HW/RW	10.002	*	NEAR TA-10-22, NEAR TA-10-26
					NEAR TA-10-23, NEAR TA-27
					NEAR TA-10-24, NEAR TA-10-28
					NEAR TA-10-25, NEAR TA-10-29
	10-002	TA10-3-L-I-HW/RW	**		TA-10-44
					TA-10-48
	10-003	TA10-2-S/ST/CA/O-I-HW/RW	10.001		TA-10-41, TA-10-51
					TA-10-42
					TA-10-43
					TA-10-50
	10-004	TA10-2-S/ST/CA/O-I-HW/RW	**		TA-10-38
					TA-10-40
	10-005	TA10-3-L-I-HW/RW	**		
	10-006	TA10-4-CA-I-RW	**		
	10-007	TA10-3-L-I-HW/RW	**		
		TA10-5-CA-I-HW/RW	**		
TA-11					
	11-001	TA11-1-CA-I-HW/RW	11.008	*	TA-11-14
					NEAR TA-11-15
					BETWEEN TA-11-2 AND TA-11-3
	11-002	TA11-2-CA-I-HW/RW	11.001	*	NEAR TA-11-41
			11.002	*	
	11-003	TA11-4-CA-I-HW/RW	**		NEAR TA-11-2
					NEAR TA-11-3
					NEAR TA-11-24

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	11-004	TA11-5-CA-A-HW/RW	**		TA-11-41, TA-11-27
					TA-11-42, TA-11-28
					TA-11-25
					TA-11-26
	11-005	TA11-6-ST-A-HW	11.009	*	TA-11-20
					TA-11-43
	11-006	TA11-7-O/S/CA-A-HW	11.003		TA-11-39
			11.004		TA-11-50
			11.005		TA-11-51
					TA-11-52
	11-007	TA11-9-OL-I-HW	**		NEAR TA-11-4
	11-008	TA11-10-CA-I-HW	**		
	11-009	MDA-S	11.007	*	NEAR TA-11-36
	11-010	**	11.006		TA-11-36
					TA-11-24
TA-12					
	12-001	TA12-1-CA-I-HW/RW	12.002		TA-12-4
			12.005	*	EAST OF TA-12-4
	12-002	TA12-4-CA-I-HW	12.004	*	NEAR TA-12-4
	12-003	TA12-3-CA-I-HW	**		NEAR TA-12-4
	12-004	TA12-2-CA-I-HW/RW	12.003		
		TA12-5-CA-I-HW/RW	**		
TA-13					
	13-001	TA13-1-CA-I-HW/RW	**		NEAR TA-13-3
					NEAR TA-13-4
	13-002	TA13-2-CA/L/OL-I-HW/RW	13.001		
	13-003	TA13-4-ST-I-HW/RW	**		TA-13-12
	13-004	TA13-3-CA-I-HW/RW	**		
TA-14					
	14-001	TA14-1-CA-A/I-HW/RW	**		TA-14-25, TA-14-29
					TA-14-26, TA-14-34
					TA-14-27, TA-14-35
					TA-14-28

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	14-002	TA14-1-CA-A/I-HW/RW	14.006	*	TA-14-2, TA-14-17
					TA-14-5, TA-14-14
					TA-14-12, TA-14-15
	14-003	TA14-2-CA-I-HW/RW	**		EAST OF TA-14-23
	14-004	TA14-7-CA-A-HW	14.003	*	TA-14-22
					TA-14-23
					NEAR TA-14-35
	14-005	TA14-3-IN-A-HW/RW	14.001	*	NEAR TA-14-35
			14.002	*	
			14.004	*	
	14-006	TA14-5-CA/ST-A-HW/RW	14.005		TA-14-23
					TA-14-31
	14-007	TA14-5-CA/ST-A-HW/RW	**		TA-14-19
	14-008	TA14-8-L-I-HW	**		
		TA14-4-OL-A-HW/RW			
	14-009	**	**		
TA-15					
	15-001	**	**		EAST OF TA-15-233
	15-002	TA15-4-CA-I-HW/RW	15.009	*	E-F SITE
	15-003	TA15-12-CA-A-HW/RW	15.003	*	TA-15-184
	15-004	TA15-1-CA-I-HW/RW	15.010	*	TA-15-6, TA-15-28, TA-15-176
			15.014	*	TA-15-177
					TA-15-14, TA-15-34, TA-15-35
					TA-15-16, TA-15-17, TA15-73
					TA-15-74, TA-15-26
	15-005	TA15-1-CA-I-HW/RW	15.017	*	TA-15-9
					TA-15-27
	15-006	TA15-2-CA-A-HW/RW	15.006	*	TA-15-184, TA-35-45
			15.007	*	TA-15-276
			15.013	*	TA-15-280
					TA-35-44
	15-007	TA15-3-CA-I-HW/RW	15.001	*	MDA-N
		TA15-5-CA/OL-I-HW/RW	15.004		MDA-Z
		TA15-6-CA-I-HW/RW	15.012	*	TA-15-264
			15.015	*	TA-15-265
	15-008	TA15-5-CA/OL-I-HW/RW	**		NEAR E-F SITE

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
		TA15-1-CA-1-HW/RW			NORTH TA-15-44
					NEAR TA-15-233
					SOUTH TA-15-22
	15-009	TA15-9-S/ST/O-A-HW/RW	15.005	*	TA-15-51, TA-15-195, TA-15-284
					TA-15-61, TA-15-62, TA-15-63
					TA-15-205, TA-15-286, TA-15-282
					TA-15-293
					TA-15-72
	15-010	TA15-8-S/ST/O-1-HW/RW	**		TA-15-80, TA-15-147
					TA-15-92
	15-011	TA15-8-S/ST/O-1-HW/RW	15.002	*	NEAR TA-15-20, NEAR TA-15-50
			15.011	*	NEAR TA-15-194
	15-012	**	15.008	*	
	15-013	TA15-13-CA-A-HW	15.016	*	TA-15-20, TA-15-184
		TA15-11-CA-A-HW			TA-15-41
					TA-15-242
					TA-15-183
TA-16					
	16-001	TA16-7-CA-1-HW	16.040	*	NEAR TA-16-208
			16.047	*	NEAR TA-16-540
					TA-16-456
	16-002	**	**		TA-16-451
	16-003	TA16-2-S-A/1-HW	16.012		200 SERIES
			16.013	*	300 SERIES
			16.022		400 SERIES
			16.023		
			16.024		
			16.025		
			16.026		
			16.027		
			16.038	*	
	16-004	**	16.048	*	TA-16-530, TA-16-535
					TA-16-531, TA-16-533
					TA-16-532, TA-16-534
	16-005	TA16-1-CA-1-HW	16.030	*	TA-16-161, TA-16-162, TA-16-163
					TA-16-174, TA-16-393

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
					TA-16-176, TA-16-177
					TA-16-504, TA-16-801
					TA-16-1132, TA-16-431
					TA-16-179, TA-16-486, TA-16-1137
					TA-16-272, TA-16-273, TA-16-274
	16-006	TA16-8-ST/UST-A/I-HW/RW	**		TA-16-173, TA-16-381, TA-16-1153
					TA-16-175, TA-16-385
					TA-16-178, TA-16-420
					TA-16-371
	16-007	TA16-3-SI-A/I-HW	16.001	*	NEAR TA-16-30, NEAR TA-16-34
			16.002	*	NEAR TA-16-31
			16.003	*	NEAR TA-16-32
			16.004	*	NEAR TA-16-33
			16.006	*	
	16-008	TA16-3-SI-A/I-HW	16.005	*	NEAR TA-16-89
			16.019		NEAR TA-16-90
			16.029	*	NEAR TA-16-91
	16-009	TA16-4-CA-A/I-HW/RW	16.031	*	NEAR TA-16-260
			16.032	*	
			16.033	*	
	16-010	TA16-4-CA-A/I-HW/RW	16.008	*	TA-16-228, TA-16-394, TA-16-406
			16.009	*	TA-16-386, TA-16-387, TA-16-388
			16.015	*	TA-16-399, TA-16-1129
			16.016	*	TA-16-390, TA-16-401, TA-16-1134
			16.017		TA-16-1136
			16.018		TA-16-392, TA-16-393
			16.020	*	
			16.021	*	
			16.037	*	
	16-011	TA16-6-IN-A-HW	**		TA-16-412
					TA-16-403
					TA-16-1150
	16-012	TA16-11-CA-A/I-HW/RW	16.007		200 SERIES
			16.014		300 SERIES
			16.061	*	400 SERIES
	16-013	TA16-11-CA-A-HW/RW	16.034	*	TA-16-283

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
					TA-16-518
					TA-16-519
					TA-16-520
	16-014	**	**		
	16-015	**	**		TA-16-15
					TA-16-18
					TA-16-36
					TA-16-51
	16-016	TA16-10-L-I-HW	**		
	16-017	TA16-12-CA-I-HW	16.036	*	
	16-018	MDA-P	16.028	*	MDA-P
	16-019	MDA-R	**		MDA-R
	16-020	TA16-0/CA-A/I-HW/RW	16.039		TA-16-222
	16-021	**	**		TA-16-450
	16-022	TA16-9-UST/SST-A/I-PP	**		TA-16-205
	16-023	TA16-6-IN-A-HW	**		TA-16-199
					TA-16-403
TA-18					
	18-001	TA18-4-CA/ST/0-A/I-HW/RW	18.001		TA-18-162
			18.002		
	18-002	TA18-1-CA-I-HW/RW	18.078	*	TA-18-3
		TA18-2-CA-I-HW/RW	18.079	*	TA-18-4
			18.080	*	
	18-003	TA18-4-CA/ST/0-A/I-HW/RW	18.004	*	TA-18-23, TA-18-120
			18.077	*	TA-18-28, TA-18-105
					TA-18-32, TA-18-116
					TA-18-39, TA-18-40, TA-16-41
					TA-18-42, TA-18-43
	18-004	TA18-4-CA/ST/0-A/I-HW/RW	18.003	*	TA-18-30
		TA18-5-CA/UST-I-HW/RW			TA-18-38
	18-005	TA18-6-CA-I-HW/RW	**		TA-18-15
	18-006	TA18-7-UST-I-RW	**		TA-18-168
	18-007	TA18-8-L-I-HW/RW	**		
TA-19					
	19-001	TA19-1-ST-I-HW/RW	19.001	*	TA-19-6

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	19-002	TA19-2-CA-1-HW	**		
TA-20					
	20-001	TA20-1-L-1-HW/RW	20.001	*	
			20.002	*	
			20.003	*	
	20-002	TA20-2-CA-1-HW/RW	20.005	*	TA-20-6
	20-003	TA20-2-CA-1-HW/RW	20.004	*	TA-20-2
					TA-20-13
					TA-20-16
					TA-20-29
	20-004				TA-20-27
					TA-20-49
TA-21					
	21-001	**	21.018		TA-21-257
	21-002	TA21-13-CA-A-HW	21.020	*	
			21.021	*	
			21.029		
	21-003	TA21-14-CA-A-HW	21.016	*	TA-21-16
	21-004	TA21-5-S-1-HW/RW	**		TA-21-335
					NORTH OF TA-21-223 AND TA-21-213
	21-005	TA21-5-S-1-HW/RW	**		TA-21-70
	21-006	TA21-2-SI-1-HW/RW	21.019	*	BETWEEN TA-21-2 AND TA-21-3
					TA-21-118, TA-21-84
					NEAR TA-21-90
					NEAR TA-21-272
	21-007	TA21-4-IN-1-HW/RW	**		NEAR TA-21-132
	21-008	TA21-4-IN-HW/RW	21.044		
	21-009	TA21-1-CA-1/A-RW/HW	**		TA-21-33
	21-010	TA21-1-CA-1/A-RW/HW	**		TA-21-35, TA-21-185, TA-21-271
					TA-21-93, TA-21-192
					TA-21-145, TA-21-255
					TA-21-147
	21-011	TA21-1-CA-1/A-HW/RW	21.006		TA-21-110, TA-21-120, TA-21-288
		TA21-5-S-1-HW/RW	21.007		TA-21-111, TA-21-223, TA-21-289

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
			21.008		TA-21-112, TA-21-257
			21.009		TA-21-113
			21.010		
			21.011		
			21.012		
			21.013		
			21.046		
	21-012	TA21-5-S-1-HW/RW	**		TA-21-357
	21-013	TA21-12-OL-1-RW/HW	21.024	*	NEAR TA-21-230
					NEAR MDA-V
	21-014	MDA-A	21.017	*	MDA-A
	21-015	MDA-B	21.001	*	MDA-B
		TA21-11-L-1-RW/HW/SW			
	21-016	MDA-T	21.002		MDA-T, TA-21-132
					TA-21-186, TA-21-122
					TA-21-121, TA-21-131
	21-017	MDA-U	21.003	*	TA-21-162, TA-21-163, TA-21-164
			21.004	*	MDA-U
	21-018	MDA-V	21.005		MDA-V
					TA-21-20
	21-019	**	**		TA-21-3, TA-21-155, TA-21-257
					TA-21-4, TA-21-322, TA-21-323
					TA-21-324, TA-21-313, TA-21-314
					TA-21-315, TA-21-146, TA-21-209
					TA-21-150
	21-020	TA21-1-CA-1/A-RW/HW	**		TA-21-12, TA-21-153
	21-021	TA21-9-CA-1-HW/RW	21.030	*	
			21.031	*	
			21.032	*	
			21.033	*	
			21.034	*	
			21.035	*	
			21.036	*	
	21-022	TA21-7-CA-A/1-HW/RW	**		TA-21-2, TA-21-3, TA-21-4
		TA21-5-S-1-HW/RW			TA-21-5, TA-21-173
					TA-21-81, TA-21-74
					TA-21-84, TA-21-202, TA-21-87

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
					TA-21-35, TA-21-89
	21-023	TA21-6-ST-1-HW/RW	**		TA-21-225
					TA-21-62
					TA-21-142
					TA-21-187
	21-024	TA21-6-ST-1-HW/RW	21.023	*	TA-21-53, TA-21-125, TA-21-194
					TA-21-55, TA-21-56, TA-21-163
					TA-21-219
					TA-21-106, TA-21-181, TA-21-123
					TA-21-124
	21-025	TA21-1-CA-1/A-RW/HW	21.014		TA-21-155
			21.015		
	21-026	TA21-3-CA/O-1/A-HW/RW	21.025		TA-21-227
			21.026		TA-21-348
			21.027		TA-21-230
			21.028		
	21-027	TA21-3-CA/O-1/A-HW/RW	**		TA-21-3
					TA-21-6
	21-028	**	**		TA-21-3
					TA-21-121
					TA-21-150
					TA-21-209
TA-22					
	22-001	TA22-1-CA-A/1-HW/RW	22.001		TA-22-24
	22-002	**	22.002		TA-22-5, TA-22-91
	22-003	TA22-8-CA-A-HW	22.003		TA-22-35
			22.004		TA-22-96
			22.005		
	22-004	TA22-3-S/O-1/A-HW	22.008	*	TA-22-93
	22-005	TA22-3-S/O-1/A-HW	**		TA-22-34
	22-006	TA22-3-S/O-1/A-HW	22.006	*	TA-22-91
			22.010	*	
			22.011	*	
	22-007	TA22-3-S/O-1/A-HW	**		TA-22-25
	22.008	TA22-2-CA/O-1/A-HW	22.013	*	TA-22-52
			22.014	*	

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	22.009	TA22-2-CA/0-1/A-HW TA22-3-S/0-1/A-HW	**		TA-22-1
	22-010	TA22-4-ST/CA-1/A-HW/RW	22.012	*	TA-22-42, TA-22-50, TA-22-51
	22-011	TA22-6-L-1-HW/RW	22.007 22.009	* *	
	22-012	**	**		TA-22-77
	22-013	**	**		TA-22-91
TA-23					
	23.001	TA23-1-CA-1-HW/RW	**		
TA-24					
	24.001	TA24-2-S/UST/-HW/RW	**		TA-16-15 TA-16-18 TA-16-504 TA-16-507
TA-25					
	25-001	TA25-1-CA-1-HW/RW	**		TA-25-9
	25-002	TA25-2-CA/ST-1-HW	**		TA-16-527 TA-25-12 TA-25-11 TA-16-526
TA-26					
	26-001	TA26-1-L-1-RW	26.001		
	26-002	TA26-2-0/CA-1-RW	**		TA-26-6
	26-003	TA26-3-ST-1-RW	**		TA-26-5
TA-27					
	27-001	TA27-1-L-1-HW/RW	27.001	*	TA-27-1
	27-002	TA27-2-CA-1-HW/RW	27.002	*	
	27-003	**	27.003 27.004	* *	
TA-30					
	30-001	**	**		TA-30

** NO CORRESPONDING E R PROGRAM OR RFA UNIT
* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-31					
	31-001	TA31-1-ST-1-HW/PP	31.001	*	TA-31-7
TA-32					
	32.001	TA32-3-IN-1-HW/RW	**		TA-32-9
	32.002	TA32-2-ST/O/CA-1-HW/RW	32.001	*	TA-32-7
			32.002	*	TA-32-8
			32.003		
TA-33					
	33-001	MDA-E	33.009	*	TA-33-29
			33.013		
	33-002	MDA-K	33.011		TA-33-86
					TA-33-93
					TA-33-133
					TA-33-134
	33-003	MDA-D	33.004		TA-33-4
			33.005		TA-33-6
	33-004	TA33-7-ST-A/1-HW/RW	33.002		TA-33-31, TA-33-161, TA-33-23
			33.016	*	TA-33-33, TA-33-188, TA-33-78
			33.017	*	TA-33-96
			33.018	*	NORTH OF TA-33-80 AND TA-33-81
					TA-33-121
	33-005	TA33-7-ST-A/1-HW/RW	33.012	*	TA-33-32
					TA-33-74
	33-006	TA33-4-CA-1-HW/RW	33.019	*	NEAR TA-33-26
					TA-33-97
					TA-33-98
	33.007	TA33-6-CA-1-HW/RW	33.019	*	TOWER AREA
					AREA 6
	33-008	**	**		NEAR TA-33-141 NEAR TA-33-117
	33-009	TA33-3-L-1-HW/RW	**		AREA 6
	33-010	TA33-3-L-1-HW/RW	33.008	*	NEAR TA-33-89 NEAR TA-33-26
	33-011	**	33.006	*	
	33-012	**	33.001	*	TA-33-39
					TA-33-114
					TA-33-19

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	33-013	**	33.003	*	TA-33-86
			33.007		
	33-014	TA33-5-CA-I-HW/RW	33.010	*	
	33-015	TA33-1-CA-A/I-RW/HW	**		TA-33-110
	33-016	**	**		NEAR TA-33-23
	33-017	TA33-1-CA-A/I-RW/HW	33.015		NEAR TA-33-86 NEAR TA-33-21 NEAR TA-33-40
TA-35					
	35-001	TA35-1-CA-A/I-HW/RW MDA-W	35.001		MDA-W
			35.002		
	35-002	TA35-1-CA-A/I-HW/RW MDA-X	35.007		MDA-X
	35-003	TA35-4-O/CA-I-HW/RW	35.003		TA-35-3, TA-35-4, TA-35-5 TA-35-6, TA-35-7, TA-35-8 TA-35-9, TA-35-10
		TA35-3-S/UST/CA-A/I-HW/RW			TA-35-31, TA-35-78, TA-35-96 TA-35-97, TA-35-12, TA-35-22 TA-35-36, TA-35-37, TA-35-38
	35-004	TA35-11-CA-A-HW/PP	35.004	*	TA-35-2, TA-35-11
			35.008	*	TA-35-25, TA-35-125, TA-35-58
			35.011	*	TA-35-67, TA-35-207, TA-35-128 TA-35-85
	35-005	TA35-8-CA/SI-A-PP	35.005	*	SOUTH OF TA-35-125
		TA35-9-SI/O-I-PP	35.006	*	EAST OF TA-35-85
	35-006	TA35-8-CA/SI-A-PP	**		EAST OF TA-35-85
	35-007	TA35-8-CA/SI-A-PP	35.021		NEAR TA-35-125
	35-008	TA35-12-OL-I-SW	35.009	*	
	35-009	TA35-6-ST-I/A-HW/RW TA35-3-S/UST/CA-A/I-HW/RW	35.010	*	TA-35-14, TA-35-45, TA-35-77 TA-35-15, TA-35-65 TA-35-16, TA-35-76 TA-35-44
	35-010	TA35-10-SI-A-HW	35.013		TA-35-144
			35.014		TA-35-145
			35.015		TA-35-146
			35.016		TA-35-215
			35.017		

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
			35.018		
			35.019		
	35-011	**	35.020		TA-35-2
					NEAR TA-35-85
	35-012	TA35-7-UST/SST-A/I-PP	**		TA-35-158
	35-013	TA35-3-S/UST/CA-A/I-HW/RW	35.012		TA-35-2
					TA-35-27, TA-35-85
					TA-35-213
	35-014	TA35-1-CA-A/I-HW/RW	**		NEAR TA-35-2
		TA35-2-CA-I/A-HW/RW			
	35-015	**	**		TA-35-29, TA-35-154
					TA-35-149, TA-35-152
					TA-35-150, TA-35-153
					TA-35-151
TA-36					
	36-001	TA36-6-L-I/A-HW/RW	36.002	*	NEAR TA-36-12
			36.005	*	MDA AA
			36.006	*	
	36-002	TA36-4-S/ST/O-I/A-HW/RW	36.003	*	TA-36-49, TA-36-48
	36-003	TA36-4-S/ST/O-I/A-HW/RW	36.004	*	TA-36-17, TA-36-61, TA-36-70
			36.007	*	
	36-004	TA36-1-CA-I/A-HW/RW	36.008	*	TA-36-3, TA-36-7, TA-36-12
		TA36-2-CA-I-HW/RW	36.009	*	TA-36-4, TA-36-8, TA-36-55
					TA-36-5, TA-36-11
					TA-36-6
	36-005	TA36-7-CA-A-HW/RW	36.001	*	
	36-006	TA36-8-L-I-HW/RW	**		
	36-007	TA36-10-CA-A-HW	**		TA-36-4, TA-36-11
					TA-36-5
					TA-36-7
					TA-36-8
	36-008	**	**		TA-36-7
					TA-36-8

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-39					
	39-001	TA39-2-L-1/A-HW/RW	39.001	*	TA-39-69
			39.004	*	MDA-Y
			39.005	*	
	39-002	TA39-7-CA-A-HW	39.002	*	TA-39-2, TA-39-64
			39.003	*	TA-39-4, TA-39-98
					TA-39-56, TA-39-103
					TA-39-63
	39-003	TA39-5-IN-1-SW	36.009	*	TA-39-55
	39-004	TA39-1-CA-1/A-HW/RW	39.007	*	TA-39-6, TA-39-88
			39.008	*	TA-39-7
					TA-39-8
					TA-39-57
	39-005	**	**		NEAR TA-39-4
	39-006	TA39-3-CA/ST-1/A-RW/HW	39.006	*	TA-39-12
					TA-39-104
TA-40					
	40-001	TA40-6-CA/ST/0[illegible]A/[illegible]-HW	**		TA-40-22
					TA-40-24
					TA-40-25
	40-002	**	40.002		NEAR TA-40-23
	40-003	TA40-1,2-CA-1-HW	40.003	*	NEAR TA-40-15
			40.004	*	
	40-004	TA40-7-CA-1-PP	40.008	*	NEAR TA-40-9
	40-005	TA40-5-S-A-HW	40.006	*	NEAR TA-40-41
					TA-22-75
	40-006	TA40-3-CA-A-HW	40.005	*	TA-40-5
		TA40-4-OL-1-HW			TA-40-8
					TA-40-15
	40-007	TA40-9-CA-A-HW	40.001		TA-40-3, TA-40-41
			40.003	*	TA-40-6
					TA-40-11
					TA-40-14
	40-008	TA40-9-CA-A-HW	**		TA-40-2
	40-009	**	**		BETWEEN TA-40-15 AND TA-40-5

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-41					
	41-001	TA41-2-ST-1-RW	41.001	*	TA-41-11
	41-002	TA41-3-CA/O-1/A-HW/RW	41.002		TA-41-7
			41.003		TA-41-8
			41.004	*	TA-41-9
TA-42					
	42-001	TA42-1-CA-1-RW/HW	**		NEAR TA-42-1
					TA-42-2
					TA-42-3
	42-002	TA42-1-CA-1-RW/HW	**		TA-42-1
	42-003	TA42-2-ST/O/CA-1-RW	**		TA-42-4
	42-004	TA42-3-OL-1-HW/RW	**		
TA-43					
	43-001	TA43-2-CA/O-A/1-HW/RW	43.001		BETWEEN TA-43-1 AND TA-0-60
	43-002	TA43-1-CA-A-HW/RW	**		TA-43-1
	43-003	**	**		TA-43-1
TA-45					
	45-001	TA45-1-O/CA-1-HW/RW	**		TA-45-2
	45-002	TA45-1-O/CA-1-HW/RW	**		TA-45-1
	45-003	TA45-1-O/CA-1-HW/RW	**		
TA-46					
	46-001	**	46.001		NEAR TA-46-88
			46.002		
			46.005		
	46-002	TA46-3-SI/CA-A-HW/RW	46.003		SEWAGE LAGOON (NO NUMBER)
			46.004		
	46-003	TA46-4-ST-A/1-HW/RW	46.007	*	TA-46-8, TA-46-53
					TA-46-22, TA-46-66
					TA-46-29, TA-46-94
					TA-46-49, TA-46-230
	46-004	TA46-7-S-1-HW/RW/PP	46.009	*	TA-46-24, TA-46-69
		TA46-1-CA/O-1-HW/RW			TA-46-31, TA-46-70
					TA-46-58, TA-46-81

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
					TA-46-61
	46-005	TA46-9-SI-I-HW	46.010	*	TA-46-170
					TA-46-171
	46-006	TA46-5-CA-A/I-HW/RW/PP	46.017	*	NEAR TA-46-31
					TA-46-71
					TA-46-197
					TA-46-158
	46-007	TA46-1-CA/O-I-HW/RW	**		NEAR TA-46-1
	46-008	TA46-6-CA-A/I-HW/PP	46.006		TA-46-79
			46.008	*	TA-46-88
	46-009	TA46-8-SI-I-HW	**		TA-46-149
	46-010	TA-46-10-L-I-HW-UNKNOWN	**		
TA-48					
	48-001	TA48-7-CA-I-RW	**		TA-48-1
		TA48-1-CA-A-HW/RW			
	48-002	TA48-4-CA-A-HW	**		TA-48-1
		TA48-5-CA-A/I-HW/RW/PP			
	48-003	TA48-6-CA/ST-A/I-HW/RW	**		TA-48-5
					TA-48-6
	48-004	TA48-2-CA/SST/S-I-HW/RW	**		TA-48-1
	48-005	TA48-2-CA/SST/S-I-HW/RW	**		NEAR TA-48-1
	48-006	TA48-6-CA/ST-A/I-HW/RW	**		TA-48-32
					NEAR TA-48-29
TA-49					
	49-001	MDA-AB	49.001	*	MDA-AB
			49.005	*	
	49-002	TA49-3-CA-I-HW/RW			TA-49-62
					AREA 2
	49-003	TA49-1-CA-I-HW/RW	49.002		
			49.003	*	AREA 11
			49.004	*	
	49-004	TA49-2-L-I-HW/RW	49.006		
	49-005	TA49-2-L-I-HW/RW	**		
	49-006	**	**		AREA 5
	49-007	TA49-5-ST-A-HW	**		TA-49-118
					TA-49-119

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-50					
	50-001	TA50-1-UST-A-HW/RW	50.001		TA-50-1
			50.002		
			50.003		
			50.004		
			50.005		
			50.006	*	
			50.007	*	
			50.008		
			50.009		
			50.010		
			50.011		
			50.012		
			50.013		
			50.014		
			50.015		
			50.016		
			50.017		
			50.018		
			50.019		
			50.020		
			50.021		
			50.022		
			50.023		
			50.024	*	
		TA50-4-0/CA-A-HW/RW	50.032		
	50-002	TA50-1-UST-A-HW/RW	50.029		TA-50-2
		TA50-2-UST-1-HW/RW	50.030		TA-50-3
			50.031		TA-50-67
			50.037	*	TA-50-68
	50-003	TA50-11-CA-A-HW/RW	50.025		TA-50-1
			50.033		TA-50-2
			50.038		
			50.039		
	50-004	TA50-12-CA-1-HW/RW	**		NEAR TA-50-37
	50-005	TA50-7-CA-1/A-HW	50.026		TA-50-1
			50.027		

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
			50.028		
	50-006	TA50-5-CA-1-HW/RW	**		
		TA50-6-CA-A-RW			
	50-007	TA50-9-IN-A-HW/RW	50.035		TA-50-37
			50.036		
	50-008	TA50-8-CA-A-RW	**		TA-50-69
	50-009	MDA-C	50.034	*	
	50-010	TA50-10-CA-A-RW	**		TA-50-1
	50-011	**	**		TA-50-10
					TA-50-9
					TA-50-11
TA-51					
	51-001	TA51-2-ST-A-HW	**		TA-51-4
					TA-51-9
					TA-51-30
					TA-51-31
	51-002	TA-51-3-S-A-HW	**		TA-51-11, TA-51-40
		TA51-1-CA-1/A-HW			TA-51-12
					TA-51-38
					TA-51-39
TA-52					
	52-001	TA52-1-CA-1-RW	52.001		TA-52-1
		TA52-2-CA/S/UST/ST-1/A-HW/R	52.004	*	TA-52-14
					TA-52-15
					TA-52-16
	52-002	TA52-2-CA/S/UST/ST-1/A-HW/RW	52.002		TA-52-3, TA-52-4, TA-52-50, TA-52-9
					TA-52-34, TA-52-97, TA-52-154
					TA-52-46, TA-52-98
					TA-52-47, TA-52-48, TA-52-49
	52-003	TA52-2-CA/S/UST/ST-1/A-HW/RW	**		TA-52-2
	52-004	**	**		TA-52-11

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
TA-53					
	53-001	TA53-5-CA-A-HW/RW	53.001	*	TA-53-2
			53.007	*	TA-53-14
					TA-53-16
	53-002	TA53-2-O/SI/CA-A-HW/RW	53.002	*	TA-53-166
			53.003	*	
			53.004	*	
	53-003	**	**		TA-53-101
	53-004	**	**		TA-53-56
	53-005	TA53-1-CA-I-HW	53.005	*	NEAR TA-53-2
	53-006	TA53-4-SST/UST-A-HW/RW	53.006	*	TA-53-59, TA-53-145
					TA-53-68
					TA-53-69
					TA-53-144
	53-007	TA53-4-SST/UST-A-HW/RW	53.006	*	TA-53-1
					TA-53-3
	53-008	TA53-5-CA-A-HW/RW	53.009		
TA-54					
	54-001	**	54.006	*	MDA-J
			54.058		MDA-G
			54.001	*	TA-54-8
	54-002	**	54.007		MDA-L
			54.055		TA-54-37
			54.047		
			54.002		
	54-003	**	54.045		MDA-L
	54-004	TA54-1-1-A-HW/RW	54.003	*	
			54.004	*	MDA-G
			54.046		
			54.059-54.185		
	54-005	MDA-H	54.005	*	MDA-H
		TA54-1-L-A-HW/RW			
	54-006	MDA-J	54.048		MDA-J
			54.049		
			54.050		
			54.051		

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
			54.052		
			54.053		
			54.054		
		TA54-1-L-A-HW/RW	54.008		
			54.009		
			54.010		
			54.011		
	54-007	MDA-L	54.012		
			54.013		
			54.014		
			54.015		
			54.016		
			54.017		
			54.018		
			54.019		
			54.020		
			54.021		
			54.022		
			54.023		
			54.024		
			54.025		
			54.026		
			54.027		
			54.028		
			54.029		
			54.030		
			54.031		
			54.032		
			54.033		
			54.034		
			54.035		
			54.036		
			54.037		
			54.038		
		TA54-1-L-A-HW/RW	54.055		
			54.056		

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TABLE 1: LOS ALAMOS NATIONAL LABORATORY
SOLID WASTE MANAGEMENT UNIT CROSS-REFERENCE
(CONTINUED)

TECH AREA	SWMU NUMBER	E R PROGRAM IDENTIFICATION	RFA ID	EPA PRIORITY SITE	ASSOCIATED STRUCTURES
	54-008	TA54-S-ST-A-HW/RW	**		TA-54-16 TA-54-28
	54-009	**	**		TA-54-43
	54-010	**	54.040 54.041 54.042 54.043 54.044		MDA-L
	54-011	**	54.057		TA-54-17
	54-012	**	**		TA-54-38
	54-013	TA54-3-CA-A-HW/RW	54.039		MDA-L
	54-014	**	**		
TA-55					
	55-001	TA55-1-CA-A-HW/RW	**		NEAR TA-55-14
	55-002	TA55-4-CA-A-HW/RW	**		
	55-003	TA55-4-CA-A-HW/RW	**		SOUTH OF TA-55-4
	55-004	TA55-1-CA-A-HW/RW	**		TA-55-4
	55-005	TA55-1-CA-A-HW/RW	**		TA-55-4
	55-006	**	**		TA-55-4
	55-007	TA55-3-IN-A-HW/RW	**		TA-55-4
	55-008	TA55-2-CA/S-A-HW/RW	**		TA-55-4
	55-009	TA55-5-UST-A-PP	**		TA-55-16 TA-55-17
	55-010	**	**		TA-55-71
TA-57					
	57-001	TA57-2-CA-A-HW	**		GT-2
	57-002	TA57-4-L-1-HW	**		
	57-003	**	**		
	57-004	TA57-2-CA-A-HW	**		EE-1 TA-57-1
	57-005	**	**		
TA-59					
	59-001	TA59-1-ST-1-HW/RW	**		TA-59-4
	59-002	TA59-4-CA-A-HW/RW	**		TA-59-1
	59-003	**	**		TA-59-1

** NO CORRESPONDING E R PROGRAM OR RFA UNIT
* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

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TABLE 2: LOS ALAMOS NATIONAL LABORATORY
E R PROGRAM UNITS NOT DESIGNATED SWMUs

TECH AREA	E R PROGRAM IDENTIFICATION	BASIS FOR EXCLUSION
TA-0		
	TA0-7-CA-1-HW	Unit is no longer on LANL property
	TA0-8-L-1-SW	Existence of unit not substantiated
	TA0-9-CA-1-RW/HW	Not classified as a SWMU/buildings
	TA0-12-L-1-RW/HW	Existence of unit not substantiated
	TA0-14-UST-1-PP	Not classified as a SWMU/fuel tanks
	TA0-18-L-HW/RW	Existence of unit not substantiated
	TA0-20-UST-A-PP	Not classified as a SWMU/fuel tanks
TA-1		
	N/A	All ID numbers are included.
TA-2		
	TA2-6-UST-A/1-PP	Not classified as a SWMU/fuel tanks
TA-3		
	TA3-9-W-A/1-HW	Not classified as a SWMU/no waste management
TA-4		
	TA4-3-CA-1-HW/RW	Included in Appendix A/outfall
TA-5		
	TA5-3-CA/0-1-HW/RW	Included in Appendix A/outfall
TA-6		
	TA6-2-CA-1-HW	Not classified as a SWMU/spill
	TA6-6-UST-1-HW/PP	Not classified as a SWMU/product tank
	TA6-7-CA-1-HW	Existence of unit not substantiated
TA-7		
	TA7-3-L-1-HW/RW	Not classified as a SWMU/no waste management
TA-8		
	TA8-3-CA-A/1-HW/RW	Not classified as a SWMU/spills
	TA8-6-UST-1-PP	Not classified as a SWMU/fuel tanks
TA-9		
	TA9-1-CA-A/1-HW/RW	Not classified as a SWMU/buildings and one-time spills
TA-10		
	N/A	All ID numbers are included.

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TABLE 2: LOS ALAMOS NATIONAL LABORATORY
E R PROGRAM UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	E R PROGRAM IDENTIFICATION	BASIS FOR EXCLUSION
TA-11		
	TA11-3-CA-I-HW/RW	Not classified as a SWMU/buildings
	TA11-8-0-A-HW	Included in Appendix A/outfalls
	TA11-11-CA-A-HW	Not classified as a SWMU/no waste management
TA-12		
	N/A	All ID numbers are included.
TA-13		
	N/A	All ID numbers are included.
TA-14		
	TA14-6-CA-I-HW	Not classified as a SWMU/product storage
TA-15		
	TA15-7-CA-I-RW/HW	Not classified as a SWMU/buildings
	TA15-10-UST-A-PP	Not classified as a SWMU/fuel tanks
TA-16		
	N/A	All ID numbers are included.
TA-18		
	TA18-3-CA-A/I-HW/RW	Not classified as a SWMU/buildings and spills
	TA18-10-CA-I-PP	Not classified as a SWMU/spill
	TA18-11-CA-I-HW/RW	Existence of unit not substantiated
TA-19		
	N/A	All ID numbers are included.
TA-20		
	N/A	All ID numbers are included.
TA-21		
	TA21-8-CA-I-RW/HW	Not classified as a SWMU/spill
	TA21-10-UST-A/I-RW/HW/PP	Not classified as a SWMU/fuel tanks
	TA21-15-CA-A-HW	Not classified as a SWMU/buildings
TA-22		
	TA21-5-CA-I-HW/RW	Existence of unit not substantiated
	TA22-7-UST-I-PP	Not classified as a SWMU/fuel tank

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TABLE 2: LOS ALAMOS NATIONAL LABORATORY
E R PROGRAM UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	E R PROGRAM IDENTIFICATION	BASIS FOR EXCLUSION
TA-23		
	TA23-2-CA/ST/S-1-HW/RW	Existence of unit not substantiated
TA-24		
	TA24-1-CA-1-HW/RW	Not classified as a SWMU/buildings
TA-25		
	N/A	All ID numbers are included.
TA-26		
	N/A	All ID numbers are included.
TA-27		
	N/A	All ID numbers are included.
TA-30		
	N/A	All ID numbers are included.
TA-31		
	N/A	All ID numbers are included.
TA-32		
	TA32-1-CA-1-HW/RW	Not classified as a SWMU/building
TA-33		
	TA33-2-O/S-A/1-RW/HW	Included in Appendix A/outfall
TA-35		
	TA35-5-O-A-HW	Included in Appendix A/outfalls
TA-36		
	N/A	All ID numbers are included.
TA-39		
	TA39-4-CA-A-HW	Not classified as a SWMU/spill
	TA39-6-CA-A-HW	Existence of unit not substantiated
TA-40		
	TA40-8-CA-1-HW	Not classified as a SWMU/spill

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TABLE 2: LOS ALAMOS NATIONAL LABORATORY
E R PROGRAM UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	E R PROGRAM IDENTIFICATION	BASIS FOR EXCLUSION
TA-41		
	TA41-1-CA-A/1-HW/RW	Included in Appendix B/stack emissions
	TA41-5-UST-A-PP	Not classified as a SWMU/fuel tank
TA-42		
	N/A	All ID numbers are included.
TA-43		
	N/A	All ID numbers are included.
TA-45		
	TA45-3-OL-1-HW/RW/SW	Unit is no longer on LANL property
TA-46		
	TA46-2-0/CA-A-HW/PP	Included in Appendix A/outfalls
TA-48		
	TA48-3-0/CA-A-HW/RW	Included in Appendix A/outfalls
TA-49		
	TA49-4-SST-1-PP	Not classified as a SWMU/product tanks
TA-50		
	N/A	All ID numbers are included.
TA-51		
	TA51-4-CA/0-A-HW	Included in Appendix A/outfalls
TA-52		
	N/A	All ID numbers are included.
TA-53		
	TA53-3-0-A-HW/RW	Included in Appendix A/outfalls
TA-54		
	N/A	All ID numbers are included.
TA-55		
	TA55-6-CA-1-PP	Not classified as a SWMU/spills

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TABLE 2: LOS ALAMOS NATIONAL LABORATORY
E R PROGRAM UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	E R PROGRAM IDENTIFICATION	BASIS FOR EXCLUSION
TA-57		
	TA57-1-CA-A-HW	Not classified as a SWMU/spills
	TA57-3-0-A-HW	Included in Appendix A/outfalls
TA-59		
	TA59-2-UST-A-PP	Not classified as a SWMU/fuel tank
	TA59-3-0/CA-A-HW	Included in Appendix A/outfall

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TABLE 3: LOS ALAMOS NATIONAL LABORATORY
RFA UNITS NOT DESIGNATED SWMUs

TECH AREA	RFA ID	EPA PRIORITY SITES	BASIS FOR EXCLUSION
TA-0			
	0.008		Not classified as a SWMU/no waste management
	0.009	*	Not classified as a SWMU/domestic sewage
	0.010	*	Not classified as a SWMU/domestic sewage
	0.011	*	Unit is described in TA-1
TA-1			
	N/A		The RFA did not contain any SWMUs for TA-1.
TA-2			
	2.002	*	Included in Appendix A/outfall
TA-3			
	3.087	*	Included in Appendix A/outfall
	3.093	*	Not classified as a SWMU/buildings
	3.097	*	Not classified as a SWMU/no waste management
TA-4			
	4.002	*	Included in Appendix A/outfall
TA-5			
	5.002	*	Included in Appendix A/outfall
TA-6			
	6.006	*	Not classified as a SWMU/product tank
	6.008		Not classified as a SWMU/fuel tank
TA-7			
	N/A		All ID numbers are included.
TA-8			
	8.002		Unit is described in TA-9
	8.004	*	Unit is described in TA-9
TA-9			
	N/A		All ID numbers are included.
TA-10			
	N/A		All ID numbers are included.

* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

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TABLE 3: LOS ALAMOS NATIONAL LABORATORY
RFA UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	RFA ID	EPA PRIORITY SITES	BASIS FOR EXCLUSION
TA-11			
	N/A		All ID numbers are included.
TA-12			
	12.001	*	Not classified as a SWMU/buildings
TA-13			
	N/A		All ID numbers are included.
TA-14			
	N/A		All ID numbers are included.
TA-15			
	N/A		All ID numbers are included.
TA-16			
	16.010		Not classified as a SWMU/vacuum truck
	16.035		RFA unit misidentified
	16.041	*	Not classified as a SWMU/product tank
	16.042	*	Not classified as a SWMU/product tank
	16.043	*	Not classified as a SWMU/product tank
	16.044	*	Not classified as a SWMU/product tank
	16.045	*	Not classified as a SWMU/product tank
	16.046	*	Not classified as a SWMU/product tank
	16.049	*	Included in Appendix A/outfall
	16.050	*	Included in Appendix A/outfall
	16.051	*	Included in Appendix A/outfall
	16.052	*	Included in Appendix A/outfall
	16.053	*	Included in Appendix A/outfall
	16.054	*	Included in Appendix A/outfall
	16.055	*	Included in Appendix A/outfall
	16.056	*	Included in Appendix A/outfall
	16.057	*	Included in Appendix A/outfall
	16.058	*	Included in Appendix A/outfall
	16.059	*	Included in Appendix A/outfall
	16.060	*	Included in Appendix A/outfall
	16.062	*	Units are included in the decommissioned TAs

* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

TABLE 3: LOS ALAMOS NATIONAL LABORATORY
RFA UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	RFA ID	EPA PRIORITY SITES	BASIS FOR EXCLUSION
TA-18			
	18.073-18.075	*	Units are described in TA-21
	18.076		Units are described in TA-27
	18.081	*	Included in Appendix A/outfall
	18.082	*	Not classified as a SWMU/fuel tank
TA-19			
	N/A		All ID numbers are included.
TA-20			
	20.006		Not classified as a SWMU/product storage
TA-21			
	21.022	*	Unit is described in TA-50
	21.045		Not classified as a SWMU/product storage
	21.047	*	Not classified as a SWMU/fuel tank
TA-22			
	N/A		All ID numbers are included.
TA-23			
	N/A		All ID numbers are included.
TA-24			
	N/A		All ID numbers are included.
TA-25			
	N/A		All ID numbers are included.
TA-26			
	N/A		All ID numbers are included.
TA-27			
	N/A		All ID numbers are included.
TA-30			
	N/A		All ID numbers are included.

* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

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TABLE 3: LOS ALAMOS NATIONAL LABORATORY
RFA UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	RFA ID	EPA PRIORITY SITES	BASIS FOR EXCLUSION
TA-31			
	31.002		Not classified as a SWMU/building
TA-32			
	32.004	*	Not classified as a SWMU/building
TA-33			
	33.014	*	Existence of unit not substantiated
TA-35			
	35.026	*	Unit not identified in RFA
TA-36			
	36.010	*	RFA unit misidentified
TA-39			
	N/A		All ID numbers are included.
TA-40			
	40.007	*	Included in Appendix A/outfalls
TA-41			
	41.005	*	Included in Appendix B/stack emissions
TA-42			
	N/A		All ID numbers are included.
TA-43			
	N/A		All ID numbers are included.
TA-45			
	N/A		All ID numbers are included.
TA-46			
	46.011	*	RFA unit misidentified
TA-48			
	N/A		All ID numbers are included.

* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

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TABLE 3: LOS ALAMOS NATIONAL LABORATORY
RFA UNITS NOT DESIGNATED SWMUs
(CONTINUED)

TECH AREA	RFA ID	EPA PRIORITY SITES	BASIS FOR EXCLUSION
TA-49			
	N/A		All ID numbers are included.
TA-50			
	N/A		All ID numbers are included.
TA-51			
	51.001	*	Not classified as a SWMU/building
TA-52			
	52.003		Included in Appendix A/outfalls
TA-53			
	53.008		RFA unit misidentified
	53.010		Included in Appendix A/outfalls
TA-54			
	N/A		All ID numbers are included.
TA-55			
	N/A		All ID numbers are included.
TA-57			
	N/A		All ID numbers are included.
TA-59			
	N/A		All ID numbers are included.

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* RFA UNIT RECOMMENDED BY EPA FOR FURTHER ACTION

GLOSSARY

ASL	Above sea level
BONEYARD	A place where surplus, used, or worn-out equipment and materials are stored to await disposition (reuse, recycling, disposal, etc.)
BOTTOM	Residues remaining from evaporation, distillation or dessication processes
BUNKER	A fortified chamber which may be partly covered with soil, typically constructed of reinforced concrete and provided with embrasures
DETONATION	A violent chemical reaction within a chemical compound or mechanical mixture evolving heat and pressure, with the reaction preceding through the reacted material toward the unreacted material at a supersonic velocity
DRY WELL	A vertical pit with its depth greater than its diameter used to dispose of waste in the same manner as a seepage pit.
EXPLOSIVE	Any chemical compound, mixture, or device which, when subjected to suitable initiating impulses or agents such as flame, spark, heat, impact, or friction (whether applied mechanically or electrically), will undergo chemical and physical transformations at speeds varying from extremely rapid to virtually instantaneous resulting in a sudden and rapid development of very high pressure in the surrounding medium
HIGH EXPLOSIVE (HE)	An explosive in which the transformation from its original position and form, once initiated, proceeds with virtually instantaneous and continuous speed throughout the total mass, accompanied by the rapid evolution of heat and a large volume of gas, causing very high pressure and a widespread shattering effort
LOW ORDER	The incomplete detonation of high explosives
MAGAZINE	Any building, structure, or container, other than a building used in the manufacture of energetic materials, which has been approved for the storage of these materials
OPEN BURNING/ OPEN DETONATION	The burning or detonation of materials in the open air, either on the ground surface or in a containment device, without a significant control of the combustion and in such a manner that the products of combustion are emitted directly into the ambient air without passing through a device intended to control the gaseous or particulate emissions

ORDNANCE Military material such as combat weapons of all kinds, including ammunition and equipment required for their use

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STATUTES AND REGULATIONS

"Resource Conservation and Recovery Act of 1976," PL94-580; 90 stat. 95, 42 U.S.C. 6901 et seq., as amended.

"Comprehensive Environmental Response, Compensation, and Liability Act," as amended.

"Superfund Amendments and Reauthorization Act of 1986."

"Protection of the Environment," 40 CFR Parts 190-399, 1987.

50 Federal Register 28713 (July 15, 1985).

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TA-0

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 0 includes all Los Alamos-related operations and sites, both active and inactive, that are located outside the designated TAs. Because of the size of TA-0 and its varying topography and other environmental conditions, pertinent environmental information is provided in units descriptions that follow.

DRAFT

O-001 CONTAINMENT BASINS

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

There are three containment basins near the laboratory boundary in Mortandad Canyon. The basins are aligned down the canyon, and capacity of the basins (in downstream direction) is 1 million, 200,000, and 500,000 gallons, respectively. These basins were first constructed at this location in the 1970's. Other basins had been used before these were built. The purpose of the basins is to prevent outfall water and sediment originating in Upper Mortandad Canyon from moving down canyon and outside of the laboratory boundaries.

WASTE INFORMATION

The waste consists of outfall water from laboratory operations and sediments. These include sorbed contaminants which are primarily radionuclides (including plutonium, americium, cobalt, and cesium), non-sorbed contaminants (including uranium and strontium), and possibly other chemicals.

RELEASE INFORMATION

There have been several small surface releases of water from the basins; however, so far as is known the flow did not extend very far below the basins. Some radiological surveys may have been performed below these basins.

DRAFT

0-002 USED OIL CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A used-oil managment area is maintained at the active landfill located on East Jemez Road (see 0-006). The area is used for the storage of less than 10 drums of waste oil, as noted in the RFA. The oil is brought by local residents for recycling. The oil stored at the site is picked up periodically by an oil recycler. The drum storage area measures approximately 50 square feet and is underlain by soil.

WASTE INFORMATION

The used-oil management areas manage primarily waste oil. An acid battery was also noted on site during the VSI. The waste oil may contain metals.

RELEASE INFORMATION

The RFA noted soil discoloration at the used-oil management area that extended over the edge of the canyon.

DRAFT

O-003 DECOMMISSIONED CONTAINER STORAGE AREA

SUMMARY

LATION: TA-O
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ? - 1987

UNIT INFORMATION

There was a container storage area at the Western Steam Plant, TA-O-1051, noted during the VSI. The area consisted of 55-gallon drums on pallets storing waste oil. This container storage area has been decommissioned.

WASTE INFORMATION

The waste oil stored in the drums may have contained metals.

RELEASE INFORMATION

The storage area was noted to have had releases from drum corrosion that resulted in spillage below the pallets. There were no release controls associated with this unit which allowed uncontrolled drainage to the adjacent canyon.

DRAFT

O-004 6TH STREET WAREHOUSE CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A container storage area is located in the 6th Street warehouse. This area is used for satellite storage of solvents. It is inspected on a regular basis.

WASTE INFORMATION

This unit stores solvents.

RELEASE INFORMATION

The facility is inspected regularly and is inside a building; releases from this unit are unlikely.

DRAFT

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE:

UNIT INFORMATION

In Mortandad Canyon approximately one mile west of the Los Alamos County line, there is a fenced area posted with warning signs for radioactivity. The fenced area was used in an experiment involving radionuclide uptake by plants. The CEARP noted drums within the fenced area but a November 1988 field survey noted that the drums have been removed.

WASTE INFORMATION

The waste within the fenced area is soil containing radionuclides.

RELEASE INFORMATION

It is unknown whether there has been a release of radionuclides from within the fenced area.

DRAFT

SUMMARY

LOCATION: TA-O
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1974 - PRESENT

UNIT INFORMATION

An active municipal landfill is located on East Jemez Road. The landfill is operated by Los Alamos County on about 24.2 acres of land that is owned by DOE. The landfill is excavated into bedrock and has no release controls associated with it. The waste is covered with soil at intervals.

WASTE INFORMATION

The landfill generally manages nonhazardous waste including laboratory and municipal solid wastes from the town of Los Alamos. It is unknown whether hazardous constituents have been included with the waste.

RELEASE INFORMATION

The RFA reported that leachate was ponded below the landfill as noted during the VSI. LANL staff believe that the liquid noted during the VSI was storm runoff. It is unknown whether the liquid contains hazardous constituents.

DRAFT

O-007 INACTIVE AIRPORT LANDFILL

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1943 - 1980's

UNIT INFORMATION

An extensive landfill used for nonradioactive townsite and laboratory trash is now near and under the airport landing strip. On April 3, 1953, 125 lbs of natural uranium was accidently picked up by the refuse crew and disposed of in this landfill. Approximately 25 lbs was later recovered and the remaining activity was covered with several loads of dirt. A memo noted that disposal practices in 1959 could cause an explosion. Oil from the motor pool and vehicle shop was disposed in an open pit at this landfill. Trash was burned at the edge of a deep canyon adjacent to the airport. Once a month combustion residues were moved to the landfill. Los Alamos County assumed operation in 1966.

WASTE INFORMATION

The waste in the landfill near the airport strip is primarily municipal and laboratory trash. Approximately 100 lbs of uranium is present as well as possible explosive material from pre-1959 disposal.

RELEASE INFORMATION

Uranium remains in the unit; combustion products were released to the air during burning and methane is currently being generated and released to the air from the landing strip landfill. There are no release controls associated with this unit.

DRAFT

0-008 HORSE MESA SURFACE DISPOSAL

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's - 1960's

UNIT INFORMATION

A small open disposal area containing building debris was observed by the CEARP field survey on Horse Mesa. The disposal area is thought to be associated with a small hutment, which may have been torn down. The hutment was previously used for weather measurements in connection with shots in Bayo Canyon.

WASTE INFORMATION

The surface disposal area contains building debris and unknown materials. A recent field survey indicated that the waste has decomposed and the surface disposal area is difficult to identify.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from this area.

DRAFT

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's - 1960's

UNIT INFORMATION

This material disposal area (MDA-M) is a surface disposal site located in a remote area east of TA-8 and north of TA-9. It is estimated to cover approximately 3 acres.

WASTE INFORMATION

The wastes identified by a visual inspection include construction debris, land-clearing debris (e.g., tree stumps), asbestos, and laboratory waste. The laboratory waste may be contaminated with chemicals, explosives, and uranium.

RELEASE INFORMATION

It is suspected that releases may have occurred from natural mobilization processes.

DRAFT

0-010 SURFACE DISPOSAL

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

Just north of TA-21 and south of airport road, some mounds, concrete, and other debris were seen on the mesa. It is suspected that the debris is the remains of some small buildings that were shown on 1948 topographic maps. The history of laboratory activities in this area is not known.

WASTE INFORMATION

The mounds are suspected to contain building debris.

RELEASE INFORMATION

No known hazardous releases have occurred from this unit.

DRAFT

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): OPEN DETONATION AREA
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1944 - 1948

UNIT INFORMATION

This unit consists of several mortar impact areas that cover a total of approximately 10 acres. Impact areas that have been identified as having existed in the Los Alamos area for firing various types of ordnance included: 1) 3 areas in Rendija Canyon [0-011(a), (b), and (c)], 2) Barranca Area [0-011(d)], 3) 37-mm Canyon [0-011(e)], 4) TA-20 [0-011(f)], 5) TA-27 (see TA-27 SWMU descriptions), 6) Pajarito Canyon [0-011(g)]. The 1986 CEARP field survey found three possible areas in Rendija Canyon, one of which is not well marked. The Barranca Area is well-fenced and marked. No information is available on 37-mm Canyon. Sandia Canyon in TA-20 was reportedly used for tank practice. The impact area in the old TA-27 is fenced and posted. Upper Pajarito Canyon may have been an impact zone. Some of impact areas have been surveyed and exposed munitions swept at periodic intervals and exposed residuals removed.

WASTE INFORMATION

The waste that may be present at the impact areas is HE and buried shell residuals.

RELEASE INFORMATION

Ordnance and HE are known to have been present in these areas; the extent of releases, if any, from these wastes is unknown.

DRAFT

O-012 UNDERGROUND FILTRATION TANK

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1949 - PRESENT

UNIT INFORMATION

An active filtration tank is located at the Western Steam Plant, TA-0-1051. The blowdown from the steam plant is first routed to this underground storage tank to remove any solids before the decant liquid is discharged to an outfall. The outfall is NPDES permit serial number 108 (see Appendix A).

WASTE INFORMATION

Presently, there are no known hazardous constituents in the blowdown water. Whether chromates were ever used is not known.

RELEASE INFORMATION

There have been no known hazardous releases from this tank.

DRAFT

O-013 TWO-MILE MESA INCINERATOR

SUMMARY

LOCATION: TA-O
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1959 - ?

UNIT INFORMATION

Two inactive incinerators and a shredder are located in a building, TA-O-139, just outside the gate leading to the Two-Mile Mesa site (TA-6). A LANL employee reported that they were used by the DOE to incinerate classified documents. During a 1986 CEARP survey, a pipe was seen protruding from the building. The pipe was part of a drain leading into the canyon.

WASTE INFORMATION

The incinerators at TA-O-139 burned classified documents.

RELEASE INFORMATION

There have been no known hazardous releases from these incinerators.

DRAFT

O-014 AIRPORT INCINERATOR / SURFACE DISPOSAL

SUMMARY

LOCATION: TA-O
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: LATE 1940's - 1950's

UNIT INFORMATION

An incinerator was located in a building, TA-O-1123, next to the present airport terminal. The incinerator and stack have been removed and the building is now used for storage. Noncombustible materials (including many cans) were deposited on a canyon ledge in back of the incinerator building. This incinerator may have been used to burn townsite wastes, but documentation is lacking.

WASTE INFORMATION

The incinerator may have burned domestic debris. The surface disposal area, by visual inspection, appears to contain burned cans and other noncombustibles.

RELEASE INFORMATION

There have been no known hazardous releases from this incinerator. Sampling at the surface disposal area has not been undertaken.

DRAFT

0-015 ACTIVE FIRING RANGES

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1966 - PRESENT

UNIT INFORMATION

One active firing range [0-015(a)], used by Mason and Hangar, the LANL security force, is located in Sandia Canyon at TA-0-274, just south of TA-53. The range is 175' x 250' and is surrounded by earthen barricades to prevent bullets from exiting the site. A second active firing range [0-015(b)], for private persons, is located in Rendija Canyon at structure number TA-0-1078.

WASTE INFORMATION

The waste at these sites consists of spent lead bullets and metal cases.

RELEASE INFORMATION

The lead bullets are not removed. The extent of soil contamination, if any, by lead is unknown.

DRAFT

O-016 INACTIVE FIRING RANGE

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: LATE 1940's - 1960's

UNIT INFORMATION

This unit is a firing range that received extensive use before the new range was built in Sandia Canyon. The range occupied approximately two acres on what is now the townsite. It is shown on aerial photographs and topographic maps from the late 1940's to be near the present Los Alamos cemetery. Several small buildings and mounded earth to catch shots were associated with the unit. Steps, concrete pads, and dirt mounds were found during the 1986 CEARP field survey. The lead shots were not removed. The land is currently owned by the U.S. Forest Service.

WASTE INFORMATION

The waste consists of lead bullets and spent shells.

RELEASE INFORMATION

Lead bullets were not removed. The extent of soil contamination, if any, by lead is unknown.

DRAFT

O-017 WASTE LINES

SUMMARY

LOCATION: TA-O
TYPE OF UNIT(s): WASTE LINE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE/DECOMMISSIONED
PERIOD OF USE: EST. 1950's - 1970's

UNIT INFORMATION

Throughout TA-O, 39,000 feet of underground acid/industrial waste lines and associated sumps and pumps have been used to transport waste to various treatment facilities. The lines transported liquid radioactive waste generated by laboratory operations. In operating the laboratory, the underground liquid waste lines and associated structures have become contaminated. Various decommissioning operations have taken place, and presently, only a few lines remain in place.

WASTE INFORMATION

The liquid wastes contained radionuclides and other chemicals, notably acidic compounds.

RELEASE INFORMATION

aks were known to have occurred in the sumps and waste lines. Most of the contamination has been removed; however, some small isolated sections of waste lines and areas of contamination remain.

DRAFT

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): WASTEWATER TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Three wastewater treatment plants are present in TA-0: White Rock, Pueblo, and Bayo [0-018(a), (b), and (c)]. These plants are now county-owned and operated. These plants are located within the county and receive waste liquids from businesses and residences. Some office space leased by LANL is served by the active waste treatment plants. The Bayo Plant received effluent from TA-43, and because it serves the townsite, may have received residual contamination left in drains from TA-1 operations.

WASTE INFORMATION

The waste treatment plants generally manage sanitary wastes, and some laboratory and maintenance facility wastes. The Bayo Plant may have received radioactive waste and lab chemicals.

RELEASE INFORMATION

The active plants have outfalls to canyons that drain to the Rio Grande River. It is unknown whether hazardous waste has been released.

DRAFT

O-019 DECOMMISSIONED WASTE TREATMENT PLANT

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1940's - 1964

UNIT INFORMATION

The Central sanitary sewer plant was active from the 1940's to 1964 when it was abandoned and subsequently decommissioned. It is believed that the Central Plant received waste from sanitary drains in TA-1.

WASTE INFORMATION

This waste treatment plant generally managed sanitary waste; however, it may have also received radioactive waste and lab chemicals.

RELEASE INFORMATION

It is unknown the extent to which hazardous waste may have been released from this plant.

DRAFT

0-020 GARBAGE TRUCK AND CAN CLEANING

SUMMARY

L..ATION: TA-0
TYPE OF UNIT(s): OTHER: CLEANING
UNIT USE: CLEANING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1940's - 1950's

UNIT INFORMATION

Next to the incinerator building, TA-0-1123, a garbage truck and can cleaning unit was in operation. It is assumed that the trucks and cans were from the townsite or from noncontaminated areas of the lab. The washwater is assumed to have gone to a septic tank which decanted to the canyon rim to the north.

WASTE INFORMATION

The waste was washwater and domestic waste.

RELEASE INFORMATION

There were no known releases of hazardous constituents from this unit.

DRAFT

0-021 INACTIVE SEPTIC SYSTEM

SUMMARY

LOCATION: TA-0
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

Inactive septic systems in TA-0 include:

STRUCTURE	SWMU NO	USE PERIOD	CAPACITY	CONSTRUCTION	OVERFLOW
west of incinerator bldg	0-021(a)	?	?	?	outfall
NW of garbage truck & can cleaning plant	0-021(b)	?	?	?	outfall

WASTE INFORMATION

The tank associated with the incinerator building is believed to have handled sanitary waste. The garbage truck cleaning plant tank probably received wash water, as well as sanitary waste.

RELEASE INFORMATION

There have been no known releases of hazardous constituents from these tanks.

DRAFT

TA-0 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURES INDEX

SWMU	FIGURE NUMBER
0-001	0-1
0-002	0-1
0-003	0-1
0-004	0-1
0-005	0-1
0-006	0-1
0-007	0-1
0-008	0-1
0-009	0-1
0-010	0-1
0-011(a)	0-1
0-011(b)	0-1
0-011(c)	0-1
0-011(d)	0-1
0-011(e)	0-1
0-011(f)	Not shown, location unknown
0-011(g)	0-1
0-012	0-1
0-013	Not shown, location unknown
0-014	0-1
0-015(a)	0-1
0-015(b)	0-1
0-016	0-1
0-017(a)	0-1
0-017(b)	Not shown, location unknown
0-018	Not shown, location unknown
0-019	0-1
0-020	0-1
0-021	Not shown

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

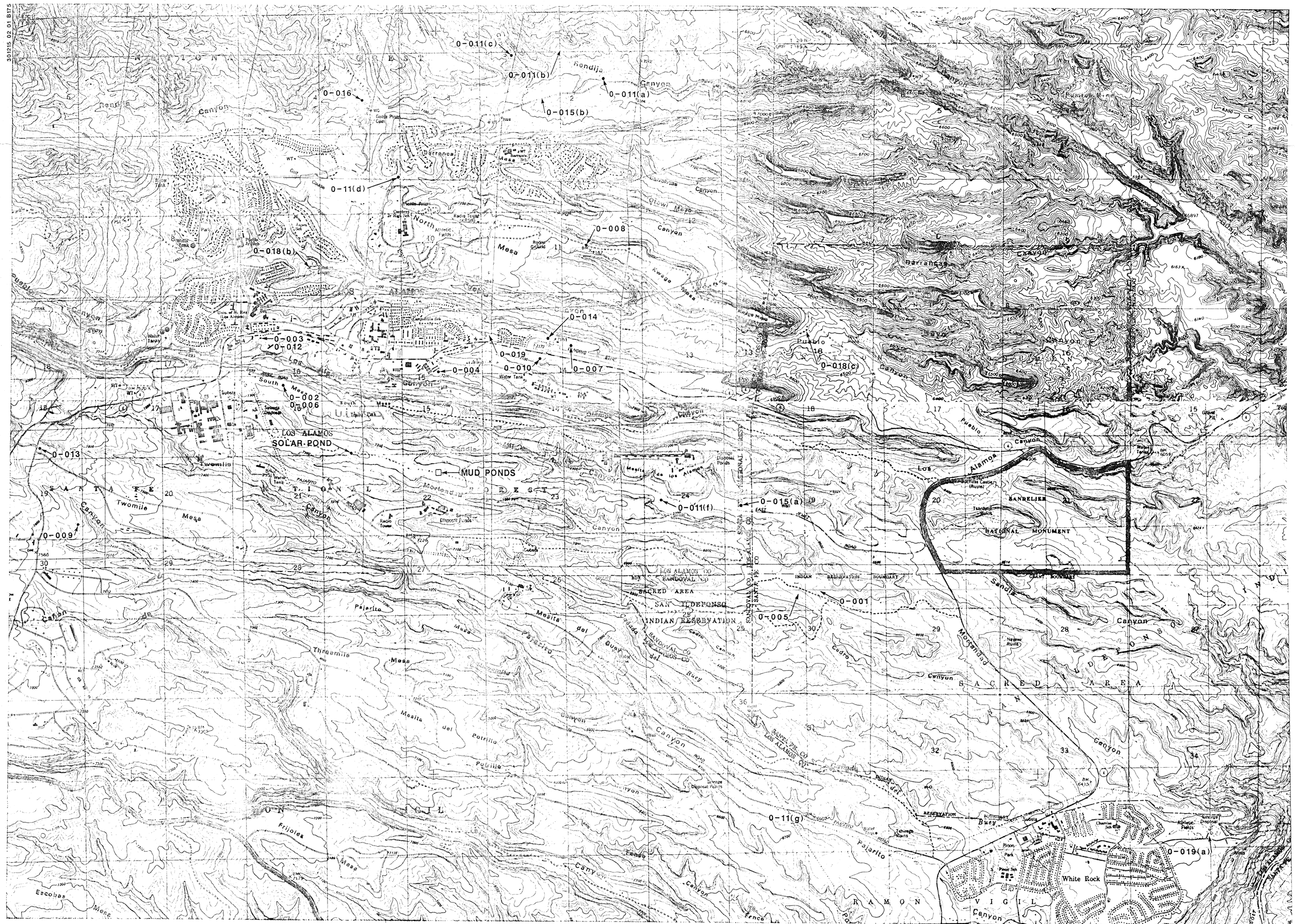
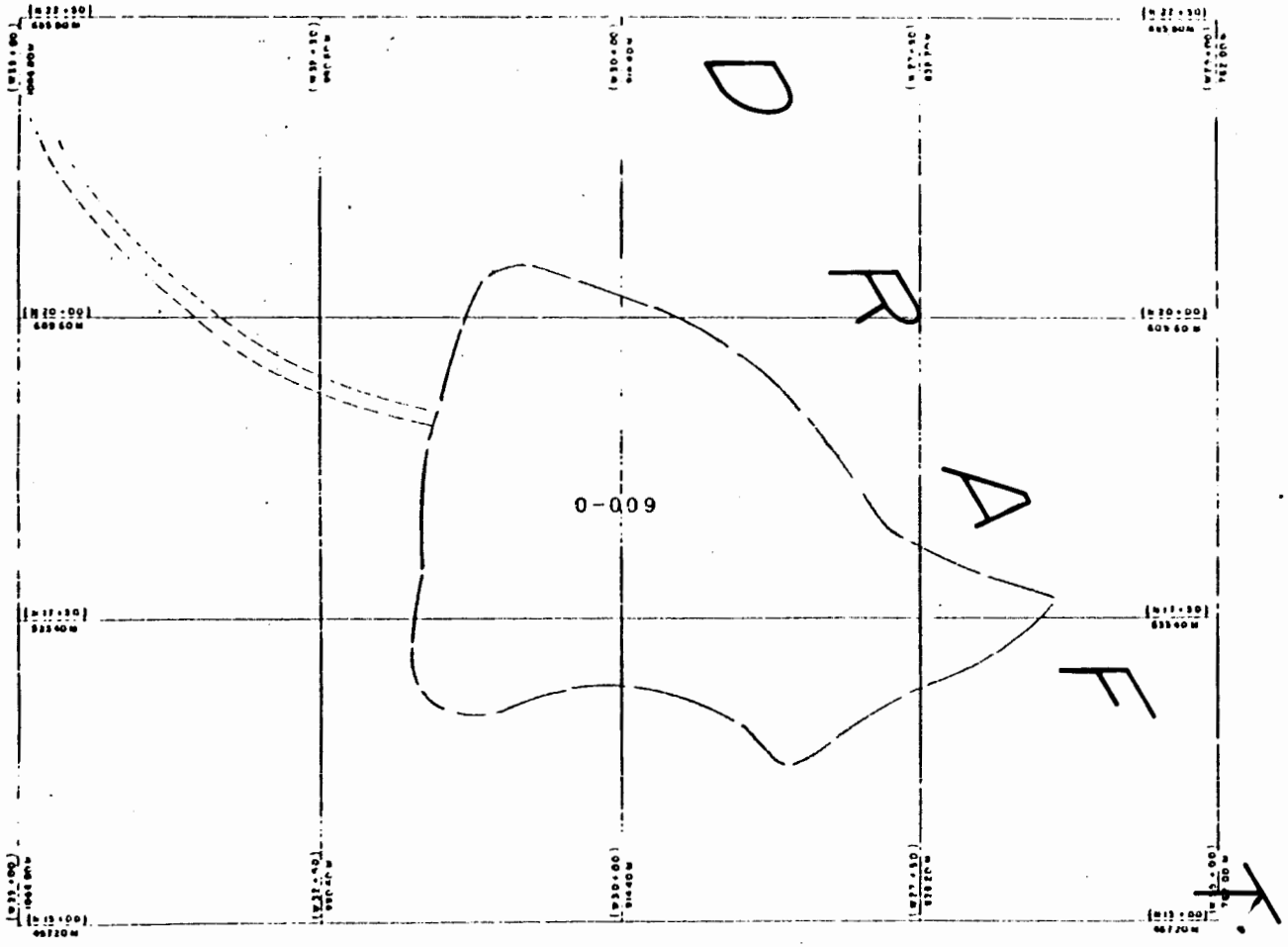


FIGURE 0-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-0

UNCLASSIFIED



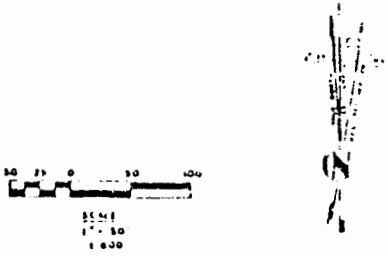


FIGURE 0-2

MATERIAL DISPOSAL AREA M, TA-0

EXPLANATION

0-001 SWMU LOCATION

NOTES

0-009: ENCOMPASSES OUTLINED AREA

UNCLASSIFIED

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREAS

AREA "M"

TA-1

OPERATIONS AND ENVIRONMENTAL SETTING

Much of the former Technical Area (TA) 1 was located outside the current northern boundary of the Los Alamos National Laboratory on East Mesa in the area now incorporating parts of the Los Alamos town site north and south of Trinity Drive. This Technical Area became inactive by 1965. Today all buildings have been removed.

The East Mesa lies between Los Alamos Canyon on the south and Pueblo Canyon on the north and is one of many "finger" mesas characteristic of the eastern margin of the Pajarito Plateau on which the Laboratory lies. The mesa is underlain by the Bandelier Tuff, of Pleistocene age. At the surface of the Pajarito Plateau, the Bandelier Tuff is welded, but may be only moderately welded to non-welded in the subsurface.

TA-1 lies at 7,300 feet elevation or higher. The potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,200 feet near TA-1 (IT, 1987). Thus, about 1,000 feet of mainly tuff lies between the surface and the aquifer. The aquifer is in Tertiary sedimentary rocks of the Tesuque and Puye Formations.

TA-1 lies in the Ponderosa Pine overstory vegetation area (DOE, 1979). The soil series at TA-1 is Pogna fine sandy loam, a well-drained soil typical of gently to steeply sloping mesa tops. The soil is typically 25 to 50 cm thick. The water-holding capacity of the soil is low, and the permeability is moderately rapid (5.0 to 16 cm/h). Runoff potential is moderate, so that soil loss from a bare soil during a two-year, 30-minute precipitation event is 0.14 to 0.51 cm.

SUMMARY

LOCATION: TA-1
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's - 1960's

UNIT INFORMATION

Several septic tanks operated in TA-1 thoughout its operational period.

STRUCTURE	SWMU NO.	USE PERIOD	DIMENSIONS	CONSTRUCTION	REMOVED
TA-1-134	1-001(a)	1949 - ?	5' x 9' x 6'5" deep	reinforced concrete	1975
TA-1-135	1-001(b)	1949 - ?	8'2" x 3'6" x 5'6" deep, 2" thick	reinforced concrete	1975
TA-1-137	1-001(c)	1943 - 1953	6' dia x 4' deep	cylindrical metal	1975
TA-1-138	1-001(d)	1943 - 1956	4' dia x 4' deep	cylindrical metal	1975
TA-1-139	1-001(e)	1944 - ?	3' x 6' x 5' deep	reinforced concrete	
TA-1-140	1-001(f)	1945 - ?	5' x 10' x 6'2" deep	reinforced concrete	1976
TA-1-141	1-001(g)	1943 - 1965	4' dia x 4' deep	cylindrical metal	1975
TA-1-142	1-001(h)	1944 - 1953	5' x 10' x 6' deep	reinforced concrete	1976
TA-1-143	1-001(i)	1951 - 1965	4' dia x 4' deep	cylindrical metal	1975
TA-1-149	1-001(j)	1943 - ?	6' x 16'	steel	
TA-1-268	1-001(k)	1948 - ?	250 gallons		
TA-1-269	1-001(l)	1945 - ?	9' long x 29" dia	tile	
TA-1-275	1-001(m)	1944 - 1947	300 gallons		
TA-1-276	1-001(n)	1944 - 1946	4' x 6' x 4' high	reinforced concrete	1977

Tank TA-1-149 was taken to TA-3.

WASTE INFORMATION

The septic systems received predominantly sanitary liquid waste, although at several times received liquids from various industrial operations which included radionuclides and could have included solvents and other chemicals.

RELEASE INFORMATION

Most of the discharge tanks have been removed along with their associated drain lines. The laundry facility at TA-1 originally discharged directly to the hillsides. The discharges from Tank 137 and perhaps other discharges have contaminated the hillsides below the tank with plutonium-239 and any associated chemicals and solvents. The same is true for the hillside below Tank 138. The discharge area below Tank 140 is contaminated with uranium and any associated chemicals and solvents. These areas have not yet been decommissioned and the contamination remains in place. Whether mobilization of waste constituents has occurred is not known.

1-002 ACID WASTE LINES, OUTFALL, AND RECEIVING CANYON

SUMMARY

LOCATION: TA-1
TYPE OF UNIT(s): OUTFALL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1943 - 1951

UNIT INFORMATION

The acid waste lines once serving TA-1 discharged to an outfall located near the present county swimming pool. The outfall discharged to a small tributary of Pueblo Canyon, known as Acid/Pueblo Canyon. Although the lines have been decommissioned, portions of two manhole structures may remain at a depth of more than 20 feet. After 1951, the liquids were treated at TA-45 prior to disposal in Acid/Pueblo Canyon. Later, during decommissioning of TA-45, rock and soil at the untreated outfall were removed and taken to TA-54, MDA-G.

WASTE INFORMATION

Untreated industrial wastewater containing radionuclides, solvents and other chemicals.

RELEASE INFORMATION

The waste lines and soil at the outfall area have been removed. The receiving Acid/Pueblo and Pueblo Canyon system still retains an inventory of radionuclides. The extent of chemical contamination is not known, as detailed data is not available.

DRAFT

1-003 LANDFILL AND SURFACE DUMPS

SUMMARY

LOCATION: TA-1
TYPE OF UNIT(s): LANDFILL/SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960's

UNIT INFORMATION

A landfill is located in the Bailey Bridge, TA-1-131, area and measures approximately 200' x 100' x 100' deep (including clean fill cover). Several other surface disposal areas are located along the south-facing slope of Los Alamos Canyon below TA-1.

WASTE INFORMATION

These disposal areas primarily received construction debris, although the Bailey Bridge landfill also received concrete contaminated with low levels of uranium.

RELEASE INFORMATION

No releases are known to have occurred from any of these units.

DRAFT

SUMMARY

LOCATION: TA-1
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1947 - 1960's

UNIT INFORMATION

Two incinerators were at one time located in TA-1. Both have been decommissioned, TA-1-146 [1-004(a)] in 1958 and TA-1-147 [1-004(b)] in 1959. Both were 2'6" x 3'6" x 3' high gas-fired units located in the center of a concrete base 7' x 7' x 6' high.

WASTE INFORMATION

The wastes incinerated consisted of routine combustible materials generated at TA-1. In 1957 they were reported to be free of significant radioactive contamination.

RELEASE INFORMATION

There are no known releases of hazardous constituents from this unit.

DRAFT

1-005 BENCH-SCALE INCINERATOR

SUMMARY

LOCATION: TA-1
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1940's - 1950's

UNIT INFORMATION

This unit, a bench-scale incinerator, was located in Building TA-1-6B. It was used by laboratory personnel for incinerating uranium contaminated combustible items so that uranium could be recovered.

WASTE INFORMATION

The wastes consisted of such items as paper products and rags contaminated with uranium. The ash produced through combustion was treated to recover the uranium.

RELEASE INFORMATION

The only known past releases from the unit consisted of combustion products which may have contained uranium and oxides of nitrogen. There are no current releases associated with this unit.

DRAFT

TA-1 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
1-001(a)	1-1
1-001(b)	1-1
1-001(c)	1-1
1-001(d)	1-1
1-001(e)	1-1
1-001(f)	1-1
1-001(g)	1-1
1-001(h)	1-1
1-001(i)	1-1
1-001(j)	1-1
1-001(k)	1-1
1-001(l)	1-1
1-001(m)	1-2
1-001(n)	1-1
1-002	1-3
1-003	1-1
1-004(a)	1-1
1-004(b)	1-1
1-005	1-1

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 0 01 B122

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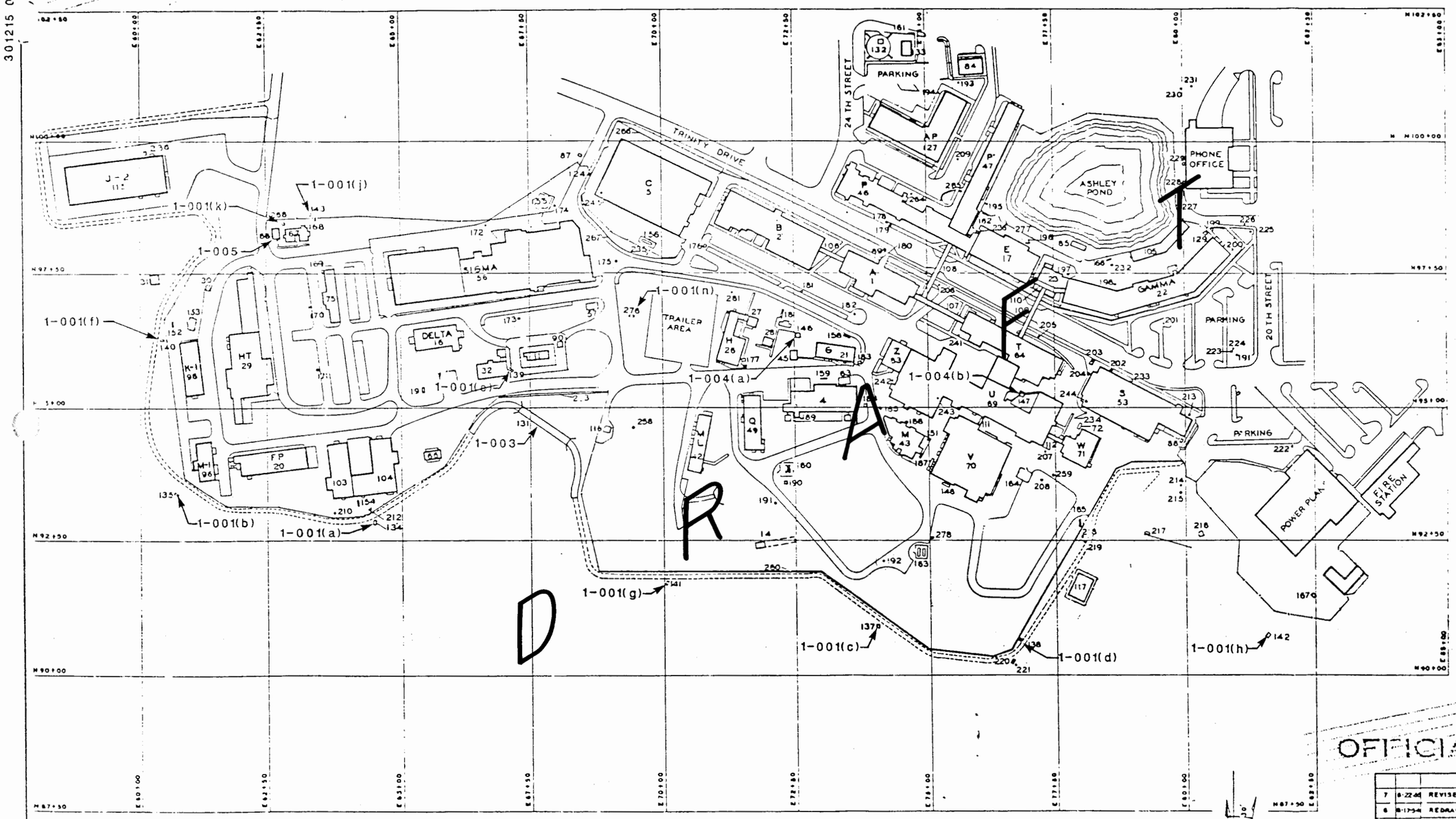

UNCLASSIFIED

EXPLANATION

1-001 SWMU LOCATION

FIGURE 1-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-1

OFFICIAL USE ONLY

NO.	DATE	REVISIONS	BY	CHKD
7	8-22-66	REVISED TO STATUS OF 7-1-55	NB	LAS
6	8-17-54	REDRAWN TO STATUS OF 7-1-54, W-112 ADDED	LCW	LAS

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

STRUCTURE LOCATION PLAN
TA-1 MAIN TECHNICAL AREA

DRAWN: LC WINKS — DATE: 8-17-54

AUTHORIZED FOR

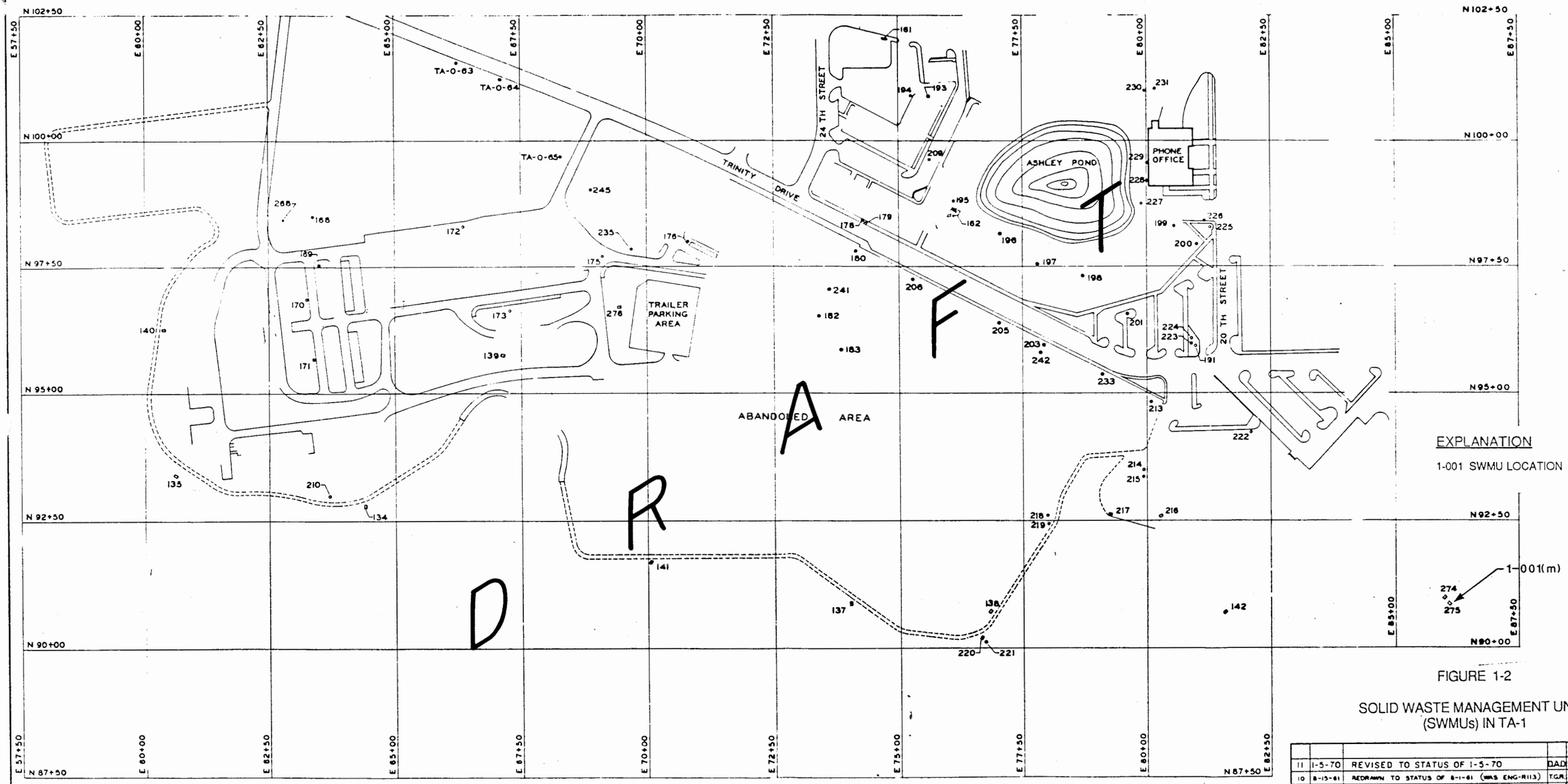

FIGURE 1-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-1

100' 50' 0 100 200' 300' 400'

SCALE

TRUE NORTH
GRID NORTH
MAG. DECLINATION

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CHKD
11	1-5-70	REVISED TO STATUS OF 1-5-70	DAD	
10	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R113)	T.G.R.	

AUTHORIZED FOR

HEALTH
SAFETY
FIRE PROT.

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

STRUCTURE LOCATION PLAN

TA-1 FORMER MAIN TECHNICAL AREA

CHECKED PROJ. ENG.	RECOMMENDED GROUP LEADER	APPROVED ENG. DEPT. OFFICE
DESIGNER	DATE 8-15-61	DRAWING NO.
DRAWN T.G. BOYRAL	SCALE	ENG-R 2407

301215 02 01 B50

DRAFT

STRUCTURE NUMBER	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-1-1	BUILDING A	REMOVED 1957	
TA-1-2	BUILDING B	REMOVED 1957	
TA-1-3	BUILDING B-1	REMOVED 1946	
TA-1-4	BOILER HOUSE NO. 2	REMOVED 1958	
TA-1-5	BUILDING C	REMOVED 1964	
TA-1-6	BUILDING D	REMOVED 1954	
TA-1-7	BUILDING D-1	REMOVED 1946	
TA-1-8	BUILDING D-2	REMOVED 1953	
TA-1-9	BUILDING D-3	REMOVED 1955	
TA-1-10	BUILDING D-4	REMOVED 1954	
TA-1-11	BUILDING D-5	REMOVED 1965	
TA-1-12	BUILDING D-6	REMOVED 1954	
TA-1-13	BUILDING D-7	REMOVED 1953	
TA-1-14	BUILDING D-8	REMOVED 1954	
TA-1-15	BUILDING D-9	REMOVED 1954	
TA-1-16	BUILDING DELTA	REMOVED 1965	
TA-1-17	BUILDING E	REMOVED 1958	
TA-1-18	BUILDING F	REMOVED 1958	
TA-1-19	MAGAZINE	REMOVED 1965	
TA-1-20	BUILDING FP	REMOVED 1965	
TA-1-21	BUILDING G	REMOVED 1959	
TA-1-22	BUILDING GAMMA	REMOVED 1958	
TA-1-23	BUILDING GAMMA-1	REMOVED 1959	
TA-1-24	BUILDING GC	REMOVED 1946	
TA-1-25	WAREHOUSE GR	REMOVED 1955	
TA-1-26	BUILDING H	REMOVED 1957	
TA-1-27	BUILDING H-EXTENSION	REMOVED 1957	
TA-1-28	BUILDING H-1	REMOVED 1959	
TA-1-29	BUILDING HT	REMOVED 1965	
TA-1-30	HT BARREL HOUSE	REMOVED 1964	
TA-1-31	HT GAS STORAGE	REMOVED 1964	
TA-1-32	BUILDING I	REMOVED 1959	
TA-1-33	PLATFORM I	REMOVED 1955	
TA-1-34	BUILDING J	REMOVED 1954	
TA-1-35	BUILDING J-5	REMOVED 1950	
TA-1-36	BUILDING J-6	REMOVED 1954	
TA-1-37	BUILDING J-7	REMOVED 1954	
TA-1-38	BUILDING J-8	REMOVED 1954	
TA-1-39	BUILDING J-9	REMOVED 1954	
TA-1-40	BUILDING K	REMOVED 1954	
TA-1-41	BUILDING L	REMOVED 1947	
TA-1-42	BUILDING ML	REMOVED 1959	
TA-1-43	BUILDING M	REMOVED 1957	
TA-1-44	BUILDING N	REMOVED 1954	
TA-1-45	BUILDING O	REMOVED 1956	
TA-1-46	BUILDING P	REMOVED 1959	
TA-1-47	BUILDING P-PRIME	REMOVED 1965	
TA-1-48	PAINT SHOP	REMOVED 1955	
TA-1-49	BUILDING Q	REMOVED 1959	
TA-1-50	BUILDING R	REMOVED 1954	
TA-1-51	BUILDING R-1	REMOVED 1954	
TA-1-52	BUILDING R-2	REMOVED 1954	
TA-1-53	BUILDING S	REMOVED 1959	
TA-1-54	BUILDING S-1	REMOVED 1954	
TA-1-55	SAW BUILDING	REMOVED 1953	
TA-1-56	BUILDING SIGMA	REMOVED 1965	
TA-1-57	COOLING TOWER	REMOVED 1965	
TA-1-58	BUILDING SIGMA-1	REMOVED 1955	
TA-1-59	BUILDING SIGMA-2	REMOVED 1955	
TA-1-60	BUILDING SIGMA-3	REMOVED 1955	
TA-1-61	BUILDING SIGMA-4	REMOVED 1955	
TA-1-62	STEAM PIT	REMOVED 1955	
TA-1-63	COOLING TOWER	REMOVED 1959	
TA-1-64	BUILDING T	REMOVED 1959	
TA-1-65	BUILDING THETA	REMOVED 1947	
TA-1-66	BUILDING THETA-1	REMOVED 1958	
TA-1-67	BUILDING TU	REMOVED 1964	
TA-1-68	BUILDING TU-1	REMOVED 1964	
TA-1-69	BUILDING U	REMOVED 1959	
TA-1-70	BUILDING V	REMOVED 1959	
TA-1-71	BUILDING W	REMOVED 1959	
TA-1-72	COOLING TOWER	REMOVED 1959	
TA-1-73	WAREHOUSE NO. 1	REMOVED 1948	
TA-1-74	WAREHOUSE NO. 2	REMOVED 1954	
TA-1-75	WAREHOUSE NO. 3	REMOVED 1965	
TA-1-76	WAREHOUSE NO. 4	REMOVED 1954	
TA-1-77	WAREHOUSE NO. 5	REMOVED 1954	
TA-1-78	WAREHOUSE NO. 6	REMOVED 1954	
TA-1-79	BUILDING X	REMOVED 1954	
TA-1-80	COOLING TOWER	REMOVED 1954	
TA-1-81	BUILDING Y	REMOVED 1956	
TA-1-82	COOLING TOWER	REMOVED 1958	
TA-1-83	BUILDING Z	REMOVED 1959	
TA-1-84	P-PRIME ANNEX	REMOVED 1965	
TA-1-85	SPRINKLER HOUSE	REMOVED 1960	
TA-1-86	PLATFORM	REMOVED 1948	
TA-1-87	GUARD HOUSE	REMOVED 1956	
TA-1-88	GUARD HOUSE	REMOVED 1959	
TA-1-89	GUARD HOUSE	REMOVED 1959	
TA-1-90	GUARD TOWER	REMOVED 1961	
TA-1-91	WAREHOUSE NO. 7	REMOVED 1956	
TA-1-92	GUARD TOWER	REMOVED 1951	
TA-1-93	GUARD TOWER	REMOVED 1949	
TA-1-94	GUARD TOWER	REMOVED 1949	
TA-1-95	GUARD TOWER	REMOVED 1948	
TA-1-96	BUILDING M-1	REMOVED 1965	
TA-1-97	WAREHOUSE NO. 13	REMOVED 1954	

STRUCTURE NUMBER	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-1-98	BUILDING K-1	REMOVED 1965	
TA-1-99	WAREHOUSE NO. 15	REMOVED 1955	
TA-1-100	WAREHOUSE NO. 16	REMOVED 1955	
TA-1-101	WAREHOUSE NO. 17	REMOVED 1954	
TA-1-102	WAREHOUSE NO. 18	REMOVED 1954	
TA-1-103	WAREHOUSE NO. 19	REMOVED 1965	
TA-1-104	SHEET METAL SHOP	REMOVED 1965	
TA-1-105	BUILDING GAMMA-2	REMOVED 1958	
TA-1-106	PASSAGEWAY	REMOVED 1959	
TA-1-107	PASSAGEWAY	REMOVED 1959	
TA-1-108	PASSAGEWAY	REMOVED 1959	
TA-1-109	PASSAGEWAY	REMOVED 1958	
TA-1-110	PASSAGEWAY	REMOVED 1958	
TA-1-111	PASSAGEWAY	REMOVED 1959	
TA-1-112	PASSAGEWAY	REMOVED 1959	
TA-1-113	PASSAGEWAY	REMOVED 1954	
TA-1-114	MICROSCOPY LABORATORY	REMOVED 1953	
TA-1-115	BUILDING J-2	REMOVED 1958	
TA-1-116	BUILDING J-3	REMOVED 1958	
TA-1-117	GAS STORAGE	REMOVED 1959	
TA-1-118	LATRINE	REMOVED 1953	
TA-1-119	WAREHOUSE NO. 21	REMOVED 1953	
TA-1-120	WAREHOUSE NO. 22	REMOVED 1953	
TA-1-121	WAREHOUSE NO. 23	REMOVED 1953	
TA-1-122	WAREHOUSE NO. 24	REMOVED 1953	
TA-1-123	GUARD TOWER	REMOVED 1946	
TA-1-124	GUARD HOUSE	REMOVED 1958	
TA-1-125	HEALTH & SAFETY BUILDING	RETURNED TO AEC 1952	
TA-1-126	OLD MESA LIBRARY	REMOVED 1953	
TA-1-127	BUILDING AP	REMOVED 1965	
TA-1-128	MEDICAL WAREHOUSE	REMOVED 1953	
TA-1-129	GUARD HOUSE	REMOVED 195[illegible]	
TA-1-130	GUARD HOUSE	REMOVED 195[illegible]	
TA-1-131	BAILEY BRIDGE	REMOVED 196[illegible]	
TA-1-132	WATER TOWER	RELOCATED TO TA-21, RENUMBERED TA-21-258	
TA-1-133	BOOSTER STATION	REMOVED 196[illegible]	
TA-1-134	SEPTIC TANK, SANITARY	ABANDONED 19[illegible]4	N 92+50 E 65+00
TA-1-135	SEPTIC TANK, SANITARY	ABANDONED 19[illegible]4	N 92+50 E 60+00
TA-1-136	PLATFORM	REMOVED 1954	
TA-1-137	SEPTIC TANK	ABANDONED 1965	N 90+00 E 75+00
TA-1-138	SEPTIC TANK	ABANDONED 1956	N 90+00 E 77+50
TA-1-139	SEPTIC TANK, SANITARY	ABANDONED 1965	N 95+00 E 67+50
TA-1-140	SEPTIC TANK, SANITARY	ABANDONED 1965	N 97+50 E 60+00
TA-1-141	SEPTIC TANK	ABANDONED 1965	N 92+50 E 70+00
TA-1-142	SEPTIC TANK	ABANDONED 1953	N 90+00 E 82+50
TA-1-143	SEPTIC TANK, SANITARY	REMOVED 1965	
TA-1-144	PAINT STORAGE	REMOVED 1953	
TA-1-145	STORAGE BUILDING	REMOVED 1953	
TA-1-146	INCINERATOR	REMOVED 1959	
TA-1-147	INCINERATOR	REMOVED 1959	
TA-1-148	DRUM STORAGE	REMOVED 1959	
TA-1-149	TANK	REMOVED 1953	
TA-1-150	STORAGE BUILDING	REMOVED 1952	
TA-1-151	GUARD HOUSE	REMOVED 1957	
TA-1-152	TRANSFORMER STATION	REMOVED 1964	
TA-1-153	TRANSFORMER STATION	REMOVED 1964	
TA-1-154	TRANSFORMER STATION	REMOVED 1964	
TA-1-155	TRANSFORMER STATION	REMOVED 1964	
TA-1-156	TRANSFORMER STATION	REMOVED 1964	
TA-1-157	TRANSFORMER STATION	REMOVED 1954	
TA-1-158	TRANSFORMER STATION	REMOVED 1960	
TA-1-159	TRANSFORMER STATION	REMOVED 1960	
TA-1-160	TRANSFORMER STATION	REMOVED 1960	
TA-1-161	TRANSFORMER STATION	TRSFRD TO L.A COUNTY 1966	N 102+50 E 75+00
TA-1-162	TRANSFORMER STATION	TRSFRD TO L.A COUNTY 1966	N 97+50 E 75+00
TA-1-163	TRANSFORMER STATION	REMOVED 1960	
TA-1-164	TRANSFORMER STATION	REMOVED 1960	
TA-1-165	TRANSFORMER STATION	REMOVED 1960	
TA-1-166	TRANSFORMER STATION	REMOVED 1960	
TA-1-167	TRANSFORMER STATION	REMOVED 1960	
TA-1-168	MANHOLE, STEAM	ABANDONED 1964	N 97+50 E 62+50
TA-1-169	MANHOLE, STEAM	ABANDONED 1964	N 97+50 E 62+50
TA-1-170	MANHOLE, SPRINKLER	ABANDONED 1964	N 97+50 E 62+50
TA-1-171	MANHOLE, SPRINKLER	ABANDONED 1964	N 95+00 E 62+50
TA-1-172	MANHOLE ELECTRICAL	ABANDONED 1964	N 97+50 E 65+00
TA-1-173	MANHOLE, ACID	ABANDONED 1964	N 97+50 E 67+50
TA-1-174	MANHOLE, ACID	REMOVED 1964	
TA-1-175	MANHOLE, SPRINKLER	ABANDONED 1964	N 97+50 E 70+00
TA-1-176	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E 70+00
TA-1-177	MANHOLE, STEAM	ABANDONED 1959	
TA-1-178	MANHOLE, WATER	TRSFRD TO L.A COUNTY 1966	N 97+50 E 75+00
TA-1-179	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N 97+50 E 75+00
TA-1-180	MANHOLE, SPRINKLER	ABANDONED 1964	N 97+50 E 75+00
TA-1-181	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-182	MANHOLE, STEAM	TRSFRD TO L.A COUNTY 1966	N 97+50 E 72+50
TA-1-183	MANHOLE, STEAM	ABANDONED 1964	N 95+00 E 72+50
TA-1-184	MANHOLE, STEAM	ABANDONED 1959	
TA-1-185	MANHOLE, STEAM	ABANDONED 1959	
TA-1-186	MANHOLE, STEAM	ABANDONED 1959	
TA-1-187	MANHOLE, ACID DRAIN	REMOVED 1957	
TA-1-188	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-189	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-190	MANHOLE, GAS VALVE	ABANDONED 1960	
TA-1-191	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N 95+00 E 60+00
TA-1-192	MANHOLE, SPRINKLER	ABANDONED 1959	
TA-1-193	MANHOLE, WATER	TRSFRD TO L.A COUNTY 1966	N 100+00 E 75+00
TA-1-194	MANHOLE, SPRINKLER	TRSFRD TO L.A COUNTY 1966	N 100+00 E 75+00

STRUCTURE NUMBER	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-1-195	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N100+00 E75+00
TA-1-196	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E77+50
TA-1-197	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E77+50
TA-1-198	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E80+00
TA-1-199	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E80+00
TA-1-200	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E80+00
TA-1-201	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 97+50 E80+00
TA-1-202	MANHOLE, SANITARY	ABANDONED 1960	
TA-1-203	MANHOLE, SPRINKLER	ABANDONED 1964	N 95+00 E77+50
TA-1-204	MANHOLE, SPRINKLER	ABANDONED 1959	
TA-1-205	MANHOLE, SPRINKLER	ABANDONED 1964	N 97+50 E77+50
TA-1-206	MANHOLE, SPRINKLER	ABANDONED 1964	N 97+50 E75+00
TA-1-207	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-208	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-209	MANHOLE, SPRINKLER	TRSFRD TO L.A COUNTY 1966	N100+50 E75+00
TA-1-210	MANHOLE, SANITARY	ABANDONED 1964	N 92+50 E65+00
TA-1-2[illegible]1	MANHOLE, PROCESS	REMOVED 1960	
TA-1-212	MANHOLE, SANITARY	REMOVED 1964	
TA-1-213	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 95+00 E80+00
TA-1-214	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 92+50 E80+00
TA-1-215	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 92+50 E80+00
TA-1-216	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 92+50 E80+00
TA-1-217	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 92+50 E80+00
TA-1-218	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 92+50 E77+50
TA-1-219	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N 92+50 E77+50
TA-1-220	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 90+00 E77+50
TA-1-221	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N 90+00 E77+50
TA-1-222	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 95+00 E82+50
TA-1-223	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 95+00 E80+00
TA-1-224	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY	N 95+00 E80+00
TA-1-225	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 97+50 E82+50
TA-1-226	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N 97+50 E82+50
TA-1-227	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N100+00 E80+00
TA-1-228	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N100+00 E80+00
TA-1-229	MANHOLE, TELEPHONE	TRSFRD TO L.A COUNTY 1966	N100+00 E80+00
TA-1-230	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N100+00 E80+00
TA-1-231	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N100+00 E80+00
TA-1-232	MANHOLE, ELECTRICAL	ABANDONED 1959	
TA-1-233	MANHOLE, ELECTRICAL	TRSFRD TO L.A COUNTY 1966	N 95+00 E80+00
TA-1-234	MANHOLE, STEAM	ABANDONED 1959	
TA-1-235	MANHOLE, ACID	ABANDONED 1965	N 97+50 E70+00
TA-1-236	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-237	DRUM STORAGE	REMOVED 1955	
TA-1-238	DRUM STORAGE	REMOVED 1958	
TA-1-239	STORAGE SHED	REMOVED 1955	
TA-1-240	FUEL TANK	REMOVED 1954	
TA-1-241	MANHOLE, STEAM	TRSFRD TO L.A COUNTY 1966	N 97+50 E72+50
TA-1-242	MANHOLE, WATER	TRSFRD TO L.A COUNTY 1966	N 95+00 E77+50
TA-1-243	MANHOLE,	ABANDONED 1959	
TA-1-244	MANHOLE	ABANDONED 1959	
TA-1-245	MANHOLE, SANITARY	TRSFRD TO L.A COUNTY 1966	N 100+00 E 67+50
TA-1-246	MANHOLE	REMOVED 1948	
TA-1-247	GUARD HOUSE	REMOVED 1945	
TA-1-248	TRANSFORMER STATION	REMOVED 1946	
TA-1-249	TRANSFORMER STATION	REMOVED 1945	
TA-1-250	TRANSFORMER STATION	REMOVED 1946	
TA-1-251	TRANSFORMER STATION	REMOVED PRIOR TO 1953	
TA-1-252	TRANSFORMER STATION	REMOVED 1946	
TA-1-253	TRANSFORMER STATION	REMOVED 1946	
TA-1-254	TRANSFORMER STATION	REMOVED 1946	
TA-1-255	PASS OFFICE	REMOVED 1947	
TA-1-256	TRANSFORMER STATION	REMOVED 1947	
TA-1-257	TRANSFORMER STATION	REMOVED 1956	
TA-1-258	MANHOLE, SANITARY	ABANDONED 1959	
TA-1-259	VALVE BOX	ABANDONED 1959	
TA-1-260	RETAINING WALL	REMOVED 1959	
TA-1-261	MANHOLE, ACID	REMOVED 1959	

FIGURE 1-4

TA-1 STRUCTURE LOCATION INDEX
(1 OF 2)

NO	DATE	REVISIONS	BY	CHKD	APP
12	11-20-70	REVISED TO STATUS OF 1-20-70	DAD		
11	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R112)	DPH		

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

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-1 FORMER MAIN TECHNICAL AREA

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

CHECKED: PROJ. ENG. | RECOMMENDED: GROUP LEADER | APPROVED: ENG. DEPT. OFFICE
DESIGNER | DATE 8-15-61 | DRAWING NO.
DRAWN HOHNER | SHEET 1 OF 2 | ENG-R 2405
SCALE NONE

UNCLASSIFIED

301215 02 01 B51

STRUCTURE NUMBER	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-1-262		UNASSIGNED	
TA-1-263	RETAINING WALL	REMOVED 1964	
TA-1-264		UNASSIGNED	
TA-1-265		UNASSIGNED	
TA-1-266	RETAINING WALL	REMOVED 1965	
TA-1-267	RETAINING WALL	REMOVED 1965	
TA-1-268	SEPTIC TANK	ABANDONED 1944	N 97+50 E 62+50
TA-1-269	SEPTIC TANK	REMOVED 1954	
TA-1-270		UNASSIGNED	
TA-1-271	PUMP HOUSE	REMOVED 1947	
TA-1-272	BUILDING TP	CANCELLED	
TA-1-273	TANK	CANCELLED	
TA-1-274	MANHOLE, SANITARY	ABANDONED 1946	N 90+00 E 85+00
TA-1-275	SEPTIC TANK, SANITARY	ABANDONED 1946	N 90+00 E 85+00
TA-1-276	SEPTIC TANK	ABANDONED 1946	N 97+50 E 70+00
TA-1-277	TRANSFORMER STATION	REMOVED 1960	
TA-1-278	MANHOLE, STEAM	ABANDONED 1957	
TA-1-279	WATER TANK	REMOVED 1947	
TA-1-280	WATER TANK	REMOVED 1947	
TA-1-281	WATER TANK	REMOVED 1947	
TA-1-282	WATER TANK	REMOVED 1947	
TA-1-283	RETAINING WALL	REMOVED 1964	
TA-1-284	STORAGE BUILDING	REMOVED 1959	
TA-1-285	STORAGE BUILDING	REMOVED 1959	
TA-1-286	TRANSFORMER STATION	REMOVED 1964	
TA-1-287	GUARD TOWER	REMOVED 1949	
TA-1-288	GUARD HOUSE	REMOVED 1980	
TA-1-289	OFFICE BUILDING	CANCELLED	
TA-1-290	SUBSTATION	REMOVED 1964	
TA-1-291	GUARD HOUSE	REMOVED 1964	
TA-1-292	SUBSTATION	REMOVED 1964	

STRUCTURE NUMBER	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

FIGURE 1-4

TA-1 STRUCTURE LOCATION INDEX
(2 OF 2)

12 11-20-70 REVISED TO STATUS OF 1-20-70 DATE
11 TA-1-61 REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R 112) 10PM
NO | DATE REVISIONS BY CHKD

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT, SEC

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

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-1 FORMER MAIN TECHNICAL AREA

RECOMMENDED — GROUP LEADER — APPROVED

DESIGNED — DATE 8-15-61 — DRAWING NO. ENG-R 2406
DRAWN MORENO R — SHEET 2 OF 3
SCALE NONE

UNCLASSIFIED

301215 02 01 B52

STRUCTURE NUMBER	DESIGNATION	APPROXIMATE GRID LOCATION	REMARKS
TA-1-1	BUILDING A	N 97+50 E 75+00	
TA-1-2	BUILDING B	N 97+50 E 72+50	
TA-1-3	BUILDING B-1		(REMOVED) 7-23-46
TA-1-4	BOILER HOUSE NO.2	N 95+00 E 72+50	
TA-1-5	BUILDING C	N100+00 E 70+00	
TA-1-6	BUILDING D		(REMOVED) 1954
TA-1-7	BUILDING D-1	RELOCATED	NOW TA-21-29
TA-1-8	BUILDING D-2		(REMOVED) 1953
TA-1-9	BUILDING D-3	N 92+50 E 75+00	(REMOVED) 1955
TA-1-10	BUILDING D-4		(REMOVED) 1-12-54
TA-1-11	BUILDING D-5	N 95+00 E 67+50	SIGMA VAULT
TA-1-12	BUILDING D-6		(REMOVED) 1-12-54
TA-1-13	BUILDING D-7		(REMOVED) 1953
TA-1-14	BUILDING D-8	N 92+50 E 72+50	BUNKER REMAINS
TA-1-15	BUILDING D-9		(REMOVED) 1953
TA-1-16	BUILDING DELTA	N 95+00 E 65+00	
TA-1-17	BUILDING E	N 97+50 E 77+50	
TA-1-18	BUILDING F	N 97+50 E 72+50	
TA-1-19	BUILDING F-1	N 95+00 E 65+00	
TA-1-20	BUILDING FP	N 95+00 E 62+50	
TA-1-21	BUILDING G	N 95+00 E 72+50	
TA-1-22	BUILDING GAMMA	N 97+50 E 80+00	
TA-1-23	BUILDING GAMMA-1	N 97+50 E 77+50	
TA-1-24	BUILDING GC		(REMOVED) 1946
TA-1-25	WAREHOUSE GR		(REMOVED) 1955
TA-1-26	BUILDING H	N 97+50 E 72+50	
TA-1-27	BUILDING H-EXT.	N 97+50 E 72+50	
TA-1-28	BUILDING H-1	N 97+50 E 72+50	
TA-1-29	BUILDING HT	N 95+00 E 62+50	
TA-1-30	HT BARREL HOUSE	N 97+50 E 62+50	
TA-1-31	HT GAS STORAGE	N 97+50 E 60+00	
TA-1-32	BUILDING I	N 95+00 E 67+50	
TA-1-33	PLATFORM I		(REMOVED) 1955
TA-1-34	BUILDING J		(REMOVED) 1954
TA-1-35	BUILDING J-5		(REMOVED) 1950
TA-1-36	BUILDING J-6		(REMOVED) 1954
TA-1-37	BUILDING J-7		(REMOVED) 1954
TA-1-38	BUILDING J-8		(REMOVED) 1954
TA-1-39	BUILDING J-9		(REMOVED) 1954
TA-1-40	BUILDING K		(REMOVED) 1954
TA-1-41	BUILDING L		(REMOVED) 1947
TA-1-42	BUILDING ML	N 95+00 E 70+00	
TA-1-43	BUILDING M	N 95+00 E 75+00	
TA-1-44	BUILDING N		(REMOVED) 1954
TA-1-45	BUILDING O	N 95+00 E 72+50	
TA-1-46	BUILDING P	N100+00 E 75+00	
TA-1-47	BUILDING P-PRIME	N100+00 E 77+50	
TA-1-48	PAINT SHOP		(REMOVED) 1955
TA-1-49	BUILDING Q	N 95+00 E 72+50	
TA-1-50	BUILDING R		(REMOVED) 1954
TA-1-51	BUILDING R-1		(REMOVED) 1954
TA-1-52	BUILDING R-2		(REMOVED) 1954
TA-1-53	BUILDING S	N 95+00 E 80+00	
TA-1-54	BUILDING S-1		(REMOVED) 1954
TA-1-55	SAW BUILDING		(REMOVED) 1953
TA-1-56	BUILDING SIGMA	N 97+50 E 67+50	
TA-1-57	COOLING TOWER NO. 57	N 97+50 E 67+50	
TA-1-58	BUILDING SIGMA-1		(REMOVED) 1955
TA-1-59	BUILDING SIGMA-2		(REMOVED) 1955
TA-1-60	BUILDING SIGMA-3		(REMOVED) 1955
TA-1-61	BUILDING SIGMA-4		(REMOVED) 1955
TA-1-62	STEAM PIT		(REMOVED)
TA-1-63	COOLING TOWER NO.63	N 95+00 E 72+50	
TA-1-64	BUILDING T	N 95+00 E 77+50	
TA-1-65	BUILDING THETA		(REMOVED)
TA-1-66	BUILDING THETA-1	N 95+00 E 65+00	
TA-1-67	BUILDING TU	N 97+50 E 62+50	
TA-1-68	BUILDING TU-1	N 97+50 E 62+50	
TA-1-69	BUILDING U	N 95+00 E 77+50	
TA-1-70	BUILDING V	N 95+00 E 75+00	
TA-1-71	BUILDING W	N 95+00 E 77+50	
TA-1-72	COOLING TOWER NO.72	N 95+00 E 77+50	
TA-1-73	WAREHOUSE 1		(REMOVED) 1948
TA-1-74	WAREHOUSE 2		(REMOVED) 1954
TA-1-75	J-DIV ANNEX	N 97+50 E 65+00	(WHSE.-3)
TA-1-76	WAREHOUSE 4		(REMOVED) 1954
TA-1-77	WAREHOUSE 5		(REMOVED) 1954
TA-1-78	WAREHOUSE 6		(REMOVED) 1954
TA-1-79	BUILDING X		(REMOVED) 1954
TA-1-80	COOLING TOWER NO.80		(REMOVED) 1954
TA-1-81	BUILDING Y		(REMOVED) [redacted]
TA-1-82	COOLING TOWER NO.82		(REMOVED) [redacted]
TA-1-83	BUILDING Z	N 95+00 E 75+00	
TA-1-84	P-PRIME ANNEX	N102+50 E 75+00	
TA-1-85	SPRINKLER HOUSE	N 97+50 E 77+50	
TA-1-86	PLATFORM		(REMOVED) 1948
TA-1-87	BUILDING 87	N100+00 E 67+50	(GRD. STA. 234)
TA-1-88	BUILDING 88	N 95+00 E 80+00	(GRD. STA. 210)
TA-1-89	BUILDING 89	N 97+50 E 75+00	(GRD. STA. 202)
TA-1-90	GUARD TOWER NO.90	N 95+00 E 67+50	(ABANDONED)
TA-1-91	WAREHOUSE 7		(REMOVED) 1955
TA-1-92	GUARD TOWER NO.92		(REMOVED)
TA-1-93	GUARD TOWER NO.93		(REMOVED)
TA-1-94	GUARD TOWER NO.94		(REMOVED)
TA-1-95	GUARD TOWER NO.95		(REMOVED)
TA-1-96	BUILDING M-1	N 95+00 E 60+00	
TA-1-97	WAREHOUSE 13	N 90+00 E 85+00	(REMOVED) 1955
TA-1-98	BUILDING K-1	N 95+00 E 60+00	
TA-1-99	WAREHOUSE 15		(REMOVED) 1955
TA-1-100	WAREHOUSE 16	N 90+00 E 87+50	(REMOVED) 1955
TA-1-101	WAREHOUSE 17	N 92+50 E 85+00	(REMOVED) 1954
TA-1-102	WAREHOUSE 18	N 90+00 E 87+50	(REMOVED) 1954
TA-1-103	WAREHOUSE 19	N 92+50 E 65+00	
TA-1-104	SHEET METAL SHOP	N 95+00 E 65+00	
TA-1-105	BUILDING GAMMA-2	N 97+50 E 60+00	
TA-1-106	PASSAGEWAY 106	N 97+50 E 72+50	
TA-1-107	PASSAGEWAY 107	N 97+50 E 75+00	
TA-1-108	PASSAGEWAY 108	N 97+50 E 75+00	
TA-1-109	PASSAGEWAY 109	N 97+50 E 77+50	
TA-1-110	PASSAGEWAY 110	N 97+50 E 77+50	
TA-1-111	PASSAGEWAY 111	N 95+50 E 75+00	
TA-1-112	PASSAGEWAY 112	N 95+00 E 77+50	
TA-1-113	PASSAGEWAY 113		(REMOVED) 1954
TA-1-114	MICROSCOPY LAB.		(REMOVED) 1953
TA-1-115	BUILDING J-2	N100+00 E 60+00	
TA-1-116	BUILDING J-3	N 95+00 E 70+00	
TA-1-117	GAS STORAGE	N 92+50 E 77+50	
TA-1-118	BUILDING 118		(REMOVED) 1953
TA-1-119	WAREHOUSE 21		(REMOVED) 1953
TA-1-120	WAREHOUSE 22		(REMOVED) 1953
TA-1-121	WAREHOUSE 23		(REMOVED) 1953
TA-1-122	WAREHOUSE 24		(REMOVED) 1953
TA-1-123	GUARD TOWER NO.123	RELOCATED	NOW TA-18-24
TA-1-124	BUILDING 124	N100+00 E 67+50	(GRD. STA. 224)
TA-1-125	BUILDING 125		RELEASED 1952
TA-1-126	OLD MESA LIBRARY		(REMOVED) 1953
TA-1-127	BUILDING AP	N100+00 E 75+00	
TA-1-128	MEDICAL WAREHOUSE		(REMOVED) 1953
TA-1-129	BUILDING 129	N 97+50 E 80+00	(GRD. STA. 239)
TA-1-130	BUILDING 130		(REMOVED) 1953
TA-1-131	BAILEY BRIDGE	N 95+00 E 67+50	
TA-1-132	WATER TOWER	N102+50 E 75+00	
TA-1-133	BOOSTER STATION	N102+50 E 65+00	
TA-1-134	TANK NO.134	N 92+50 E 65+00	
TA-1-135	TANK NO.135	N 92+50 E 80+00	
TA-1-136	PLATFORM 136	N 90+00 E 87+50	REMOVED 1954
TA-1-137	TANK NO.137	N 90+00 E 75+00	
TA-1-138	TANK NO.138	N 90+00 E 77+50	
TA-1-139	TANK NO.139	N 95+00 E 67+50	
TA-1-140	TANK NO.140	N 97+50 E 60+00	
TA-1-141	TANK NO.141	N 92+50 E 70+00	
TA-1-142	TANK NO.142	N 90+00 E 82+50	(ABANDONED)1953
TA-1-143	TANK NO.143	N 97+50 E 62+50	
TA-1-144	BUILDING 144		(REMOVED) 1953
TA-1-145	BUILDING 145		(REMOVED) 1955
TA-1-146	INCINERATOR 146	N 97+50 E 72+50	
TA-1-147	INCINERATOR 147	N 95+00 E 77+50	
TA-1-148	PLATFORM 148	N 92+50 E 75+00	
TA-1-149	TANK NO.149	RELOCATED	NOW TA-3-63
TA-1-150	BUILDING 150	RELOCATED	NOW TA-21-133
TA-1-151	BUILDING 151	N 95+00 E 75+00	(ABANDONED)
TA-1-152	TRANSFORMER STA.	N 97+50 E 60+00	
TA-1-153	TRANSFORMER STA.	N 97+50 E 60+00	
TA-1-154	TRANSFORMER STA.	N 92+50 E 65+00	
TA-1-155	TRANSFORMER STA.	N100+00 E 67+50	
TA-1-156	TRANSFORMER STA.	N 97+50 E 70+00	
TA-1-157	TRANSFORMER STA.		(REMOVED) 1954
TA-1-158	TRANSFORMER STA.	N 95+00 E 72+50	
TA-1-159	TRANSFORMER STA.	N 95+00 E 72+50	
TA-1-160	TRANSFORMER STA.	N 92+50 E 72+50	
TA-1-161	TRANSFORMER STA.	N102+50 E 75+00	
TA-1-162	TRANSFORMER STA.	N 97+50 E 75+00	
TA-1-163	TRANSFORMER STA.	N 92+50 E 75+00	
TA-1-164	TRANSFORMER STA.	N 92+50 E 77+50	
TA-1-165	TRANSFORMER STA.	N 92+50 E 77+50	
TA-1-166	TRANSFORMER STA.	N 97+50 E 77+50	
TA-1-167	TRANSFORMER STA.	N 92+50 E 82+50	
TA-1-168	MANHOLE STEAM	N 97+50 E 62+50	
TA-1-169	MANHOLE STEAM	N 97+50 E 62+50	
TA-1-170	MANHOLE SPRINKLER	N 97+50 E 62+50	
TA-1-171	MANHOLE SPRINKLER	N 95+00 E 62+50	
TA-1-172	MANHOLE ELECTRICAL	N 97+50 E 65+00	
TA-1-173	MANHOLE ACID SEWER	N 97+50 E 67+50	
TA-1-174	MANHOLE ACID SEWER	N100+00 E 67+50	
TA-1-175	MANHOLE SPRINKLER	N 97+50 E 70+00	
TA-1-176	MANHOLE SAN. SEWER	N 97+50 E 70+00	
TA-1-177	MANHOLE STEAM	N 95+00 E 72+50	
TA-1-178	MANHOLE WATER	N 97+50 E 75+00	
TA-1-179	MANHOLE WATER	N 97+50 E 75+00	
TA-1-180	MANHOLE SPRINKLER	N 97+50 E 75+00	
TA-1-181	MANHOLE SAN. SEWER	N 97+50 E 72+50	
TA-1-182	MANHOLE STEAM	N 97+50 E 72+50	
TA-1-183	MANHOLE STEAM	N 95+00 E 75+00	
TA-1-184	MANHOLE STEAM	N 95+00 E 75+00	
TA-1-185	MANHOLE STEAM	N 95+00 E 75+00	
TA-1-186	MANHOLE STEAM	N 95+00 E 75+00	
TA-1-187	MANHOLE PROCESS	N 95+00 E 75+00	
TA-1-188	MANHOLE SAN. SEWER		(REMOVED)
TA-1-189	MANHOLE SAN. SEWER	N 95+00 E 72+50	
TA-1-190	MANHOLE GAS VA. PIT	N 95+00 E 72+50	
TA-1-191	MANHOLE DOM. WATER	N 92+50 E 72+50	
TA-1-192	MANHOLE SPRINKLER	N 92+50 E 75+00	
TA-1-193	MANHOLE DOM. WATER	N 92+50 E 75+00	
TA-1-194	MANHOLE SPRINKLER	N100+00 E 75+00	
TA-1-195	MANHOLE SAN. SEWER	N100+00 E 77+50	
TA-1-196	MANHOLE SAN. SEWER	N 97+50 E 77+50	
TA-1-197	MANHOLE SAN. SEWER	N 97+50 E 77+50	
TA-1-198	MANHOLE SAN. SEWER	N 97+50 E 80+00	
TA-1-199	MANHOLE SAN. SEWER	N100+00 E 80+00	
TA-1-200	MANHOLE SAN. SEWER	N 97+50 E 80+00	
TA-1-201	MANHOLE SAN. SEWER	N 97+50 E 80+00	
TA-1-202	MANHOLE SAN. SEWER	N 95+00 E 77+50	
TA-1-203	MANHOLE SPRINKLER	N 95+00 E 77+50	
TA-1-204	MANHOLE DOM. WATER	N 95+00 E 77+50	
TA-1-205	MANHOLE SPRINKLER	N 95+00 E 77+50	
TA-1-206	MANHOLE SPRINKLER	N 97+50 E 75+00	
TA-1-207	MANHOLE SAN. SEWER	N 95+00 E 77+50	
TA-1-208	MANHOLE SAN. SEWER	N 95+00 E 77+50	
TA-1-209	MANHOLE SPRINKLER	N 92+50 E 75+00	
TA-1-210	MANHOLE SAN. SEWER	N 92+50 E 75+00	
TA-1-211	MANHOLE PROCESS		(REMOVED)
TA-1-212	MANHOLE SPRINKLER	N 95+00 E 77+50	
TA-1-213	MANHOLE ELECTRICAL	N 95+00 E 80+00	
TA-1-214	MANHOLE ELECTRICAL	N 92+50 E 80+00	
TA-1-215	MANHOLE ELECTRICAL	N 92+50 E 80+00	
TA-1-216	MANHOLE ELECTRICAL	N 92+50 E 80+00	
TA-1-217	MANHOLE ELECTRICAL	N 92+50 E 80+00	
TA-1-218	MANHOLE ELECTRICAL	N 92+50 E 77+50	
TA-1-219	MANHOLE TELEPHONE	N 92+50 E 77+50	
TA-1-220	MANHOLE ELECTRICAL	N 90+00 E 75+00	
TA-1-221	MANHOLE TELEPHONE	N 90+00 E 75+00	
TA-1-222	MANHOLE SAN. SEWER	N 95+00 E 82+50	
TA-1-223	MANHOLE ELECTRICAL	N 95+00 E 80+00	
TA-1-224	MANHOLE ELECTRICAL	N 95+00 E 80+00	
TA-1-225	MANHOLE SAN. SEWER	N 97+50 E 80+00	
TA-1-226	MANHOLE ELECTRICAL	N 97+50 E 80+00	
TA-1-227	MANHOLE ELECTRICAL	N100+00 E 80+00	
TA-1-228	MANHOLE TELEPHONE	N100+00 E 80+00	
TA-1-229	MANHOLE TELEPHONE	N100+00 E 80+00	
TA-1-230	MANHOLE SAN. SEWER	N100+00 E 80+00	
TA-1-231	MANHOLE ELECTRICAL	N100+00 E 80+00	
TA-1-232	MANHOLE ELECTRICAL	N 97+50 E 77+50	
TA-1-233	MANHOLE ELECTRICAL	N 95+00 E 80+00	
TA-1-234	MANHOLE STORM DR	N 95+00 E 77+50	
TA-1-235	MANHOLE ACID SEWER	N 97+50 E 70+00	
TA-1-236	MANHOLE SAN. SEWER	N 97+50 E 75+00	
TA-1-237	DRUM STORAGE		(REMOVED) 1955
TA-1-238	DRUM STORAGE	N100+00 E 60+00	
TA-1-239	STORAGE SHED	N 97+50 E 57+50	(REMOVED) 1955
TA-1-240	FUEL TANK		(REMOVED) 1955
TA-1-241	MANHOLE SAN.SEWER	N 95+00 E 75+00	
TA-1-242	MANHOLE SAN.SEWER	N 95+00 E 75+00	
TA-1-243	MANHOLE SAN.SEWER	N 95+00 E 75+00	
TA-1-244	MANHOLE SAN.SEWER	N 95+00 E 77+50	
TA-1-245	MANHOLE SAN. SEWER	N100+00 E 67+50	
TA-1-246	MANHOLE SAN. SEWER		(REMOVED) 1948
TA-1-247	BUILDING 247		(REMOVED)
TA-1-248	TRANSFORMER STA.		(REMOVED)
TA-1-249	TRANSFORMER STA.		(REMOVED)
TA-1-250	TRANSFORMER STA.		(REMOVED)
TA-1-251	TRANSFORMER STA.		(REMOVED)
TA-1-252	TRANSFORMER STA		(REMOVED)
TA-1-253	TRANSFORMER STA.		(REMOVED)
TA-1-254	TRANSFORMER STA.		(REMOVED)
TA-1-255	BUILDING 255		(REMOVED)
TA-1-256	TRANSFORMER STA		(REMOVED)
TA-1-257	TRANSFORMER STA		(REMOVED)
TA-1-258	MANHOLE SEWER	N 95+00 E 70+00	
TA-1-259	VALVE BOX	N 92+50 E 77+50	
TA-1-260	RETAINING WALL	N 92+50 E 72+50	
TA-1-261	MANHOLE ACID	N 97+50 E 72+50	
TA-1-262	MANHOLE ACID		
TA-1-263	RETAINING WALL	N 95+00 E 67+50	
TA-1-264	MANHOLE SAN.SEWER	N100+00 E 75+00	
TA-1-265	MANHOLE SAN.SEWER	N100+00 E 75+00	
TA-1-266	RETAINING WALL	N100+00 E 70+00	
TA-1-267	RETAINING WALL	N 97+50 E 70+00	
TA-1-268	TANK NO.268	N 97+50 E 62+50	
TA-1-269	TANK NO.269		(REMOVED) 1954
TA-1-270	RESERVE		
TA-1-271	RESERVE		
TA-1-272	BUILDING TP		(NOT BUILT)
TA-1-273	TANK NO.273		(NOT BUILT)
TA-1-274	MANHOLE SEWER	N 90+00 E 85+00	
TA-1-275	SEPTIC TANK	N 90+00 E 85+00	
TA-1-276	SEPTIC TANK	N 97+50 E 70+00	
TA-1-277	TRANSFORMER STA.	N 97+50 E 77+50	
TA-1-278	MANHOLE STEAM	N 92+50 E 75+00	

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FIGURE 1-5

TA-1 STRUCTURE LOCATION INDEX

OFFICIAL USE ONLY

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CHKD
7	8-22-55	REVISED TO STATUS OF 7-1-55	NB	JAS
6	8-17-54	REDRAWN (DRAWING NO. ENG-R 82 ADDED)	LCW	JAS

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

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

STRUCTURE LOCATION PLAN
TA-1 MAIN TECHNICAL AREA

CHECKED: DESIGNER — RECOMMENDED: GROUP LEADER — APPROVED

DRAWN: LC WINKS — DATE: 8-17-54 — DRAWING NO.: ENG-R 112
SCALE: NONE — SHEET 1 OF 2

TA-2

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 2, known as Omega Site, incorporates two separate areas. The northern area No. 1 lies at the bottom of Los Alamos Canyon. To the south, on the south rim of the Canyon, lies Area No. 2. Current operations center around the Omega West Reactor, a water-cooled research nuclear reactor fueled by highly enriched uranium.

Los Alamos Canyon is underlain by alluvium and the Bandelier Tuff. The tuff is mainly non-welded members of the Bandelier Tuff. The soil is described as Typic Ustorthents-Rock outcrop complex (soil and rock combined as a mapping unit). The Typic Ustorthents soils are thick (>155 cm), well-drained soils typical of very steep mountain sideslopes. The soil is moderately to very rapidly permeable (1.6 to 16 cm/h) and has a very low water holding capacity.

TA-2, Area No. 1 lies at about 6,875 feet elevation. Area No. 2 lies at about 7,200 feet, asl. The potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,000 feet near TA-2 (IT, 1987). Thus, about 900 feet, or more, of mainly tuff lies between the surface and the aquifer. The aquifer is in Tertiary sedimentary rocks of the Tesuque and Puye Formations.

Stream flow in Los Alamos Canyon is intermittent, although a perennial base flow occurs in the upper reaches of the canyon. Outfalls of waste water from adjacent technical areas result in some flow through portions of Los Alamos Canyon during periods of outfall discharge.

Because TA-2 lies within the Canyon itself, flooding has been investigated as a potential environmental problem. The characteristics of the drainage basin indicate that a 100-year flood would result in a flow of 25 cubic meters per second (870 cubic feet per second). A 500-year flood event would produce about 37 cubic meters per second (1,290 cubic feet per second). The channel at TA-2 is capable of carrying a maximum flow of 46 cubic meters per second (1,600 cubic feet per second). Flooding of parking lots and roadways may occur in such an event only if the channel were to become clogged with debris. Flooding of permanent buildings is unlikely (DOE, 1979).

Flooding of TA-2 by failure of the Los Alamos Canyon Reservoir Dam is unlikely assuming complete drainage in 45 minutes (15 minutes to crest, and 30 minutes recession).

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2-001 BURN PIT

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): PIT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's

UNIT INFORMATION

A burn pit was used for disposing of combustible materials from TA-2. A 1945 memo recommended that drums be provided at this pit for trash that could not be burned. Information about the pit, including the location is lacking.

WASTE INFORMATION

The waste handled by this unit was probably noncontaminated combustible trash and noncombustible material.

RELEASE INFORMATION

There was no known hazardous release from this pit.

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2-002 CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1980's

UNIT INFORMATION

Oil-filled equipment was stored outside of TA-2-1 for several years. Leaking oil from the equipment ran onto the pavement and into the storm-drain. In 1985, the oil was found to contain PCB's. The area was decontaminated to the point where the concentration of PCBs was reduced to 1 ppm.

WASTE INFORMATION

The equipment stored in this area was filled with oil containing PCB.

RELEASE INFORMATION

Although there was a known release, the area has been cleaned up, and decontamination efforts have been verified.

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SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): OTHER: WASTE HANDLING
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1944 - 1974

UNIT INFORMATION

From its establishment in 1944, TA-22 has had several types of reactors that were operated on site. 1) A decommissioned reactor, known as Clementine, was a plutonium-fueled, mercury-cooled reactor. The reactor system was self contained. There are no known SWMUs associated with this reactor. 2) Another reactor was constructed in 1944, and subsequently underwent systems modifications. This modified reactor, the "Water Boiler", was in operation for a number of years. It was a liquid uranyl compound fueled reactor. The following units were associated with the "Water Boiler" for off-gas handling: a) stack gas valve house, TA-2-19 [2-003(a)], b) transport line and condensate trap, TA-2-48 [2-003(b)], c) a delay system which consisted of two stainless steel tanks in series (each 24 inches in diameter x 10 feet long) [2-003(c)], d) transport line to the mesa top to the south which consisted of 2" x 1/2" diameter pipe [2-003(d)], and e) a discharge system (currently in use for the Omega West Reactor (OWR)) (see 2-004). There was a once-through cooling system for the "Water Boiler" using water from the municipal system. In addition, a holding tank, TA-2-62 [2-003(e)] was located near the "Water Boiler" for holding any reactor fluid if necessary. It is believed that this tank was never used. All waste handling equipment for the "Water Boiler" has been removed, with the exception of 40 feet of line which remains inside TA-2-1.

WASTE INFORMATION

The off-gases from the "Water Boiler" contained low levels of argon and other gaseous fission products. The cooling water contained small amounts of short-lived activation products including sodium-24 and manganese-56.

RELEASE INFORMATION

The off-gases from the "Water Boiler" discharged through a stack, where as the cooling water discharged to a stream bed in Los Alamos Canyon.

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): REACTOR
UNIT USE: PRODUCTION
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1956 - PRESENT

UNIT INFORMATION

The Omega West Reactor (OWR) is housed in the main building, TA-2-1 [2-004(a)]. It is an enriched uranium plate type reactor contained in an 8' diameter closed vessel. There are two spent fuel rod holders also contained in the OWR vessel where spent fuel rods are held in 4" square holders for decay. The holders are constructed in two sets one on either side of the vessel. A total of 53 fuel rods can be held in the two sets of spent fuel rod holders. The spent fuel elements are 42 5/8" long each. A concrete tank filled with water is used to hold "hot" fuel rods when the operator transfers rods between containers. The transfer pool has inner dimensions of approximately 6' x 10' x 8' deep with an offset (3' x 6' x 4' deep). The transfer pool is operated as a closed system. In the event of necessary discharge, the liquid passes through a filter. The off-gas system includes a small, stainless-steel tank. Off gases are routed through the tank and vapor condenses in the tank before the gases are discharged to the line running from TA-2 to the discharge stack on the mesa top to the south of TA-2. The liquid from the tank is periodically pumped into a bottle and transferred to the main TA-2 liquid waste holding tank prior to the transfer to TA-50 for treatment. There are two ion exchange systems for the removal of contaminants from the OWR cooling water. Each system consists of resin beads housed in a column approximately 30" in diameter and 6' tall. Three 1200-gallon tanks store OWR system radioactive wastes prior to pumping them through the acid waste lines to TA-50 for treatment. The tanks are designated TA-2-54, -55, and -56 [2-004(b), (c), and (d)] and are constructed of stainless steel. An underground concrete pit contains the pumps and valve system. The acid pit, TA-2-53 [2-004(e)] is constructed of reinforced concrete and is 7' x 11' x 7' deep. A 300-gallon portable tank is located on a platform near the guard station. The tank has not been used for three years, however, it is available for pumping liquids from the other tanks in an emergency. A hoist lifts the platform and tank onto a truck for transport to TA-50. The equipment building, TA-2-44 [2-004(f)], contains the main circulating pump, several other pumps, and tanks for the deionizers.

WASTE INFORMATION

The wastes include spent fuel rods and any activation products, radionuclides sorbed on the resins, and off-gases containing radionuclides.

RELEASE INFORMATION

Presently releases of radionuclides occur from the OWR stack. There have been no leaks in the tanks.

2-005 COOLING TOWER DRIFT LOSS

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's - 1970's

UNIT INFORMATION

Potassium dichromate was used to treat cooling water for the Omega cooling tower in the early days of operation. During the 1987 CEARP field survey, an employee recalled that the drift loss of potassium dichromate turned the hillside green. Potassium dichromate is no longer used.

WASTE INFORMATION

Measurements in 1971 indicate that 0.05 lb. of hexavalent chromium per hour of operation was being lost.

RELEASE INFORMATION

It is assumed that the chromium has been dispersed by natural processes in the surrounding soil.

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2-006 FRENCH DRAIN

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): DRAIN
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Condensate in the Omega stack will flow down the stack and into a french drain.

WASTE INFORMATION

The condensate may contain radionuclides.

RELEASE INFORMATION

The liquid is subsequently released to the soil through the drain. Radionuclides may be released in the discharge.

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SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1944 - 1970's

UNIT INFORMATION

Engineering drawing ENG-R393 shows that septic tank TA-2-43 received wastes from Building 1. The septic tank was constructed of reinforced concrete and was approximately 6' x 10' x 4' deep. The overflow from the tank went to a clay pipe drain-line with a canyon outfall. A 1957 memo indicated that the effluent was contaminated, and in 1967 the septic tank sludge was reported to have activity. In the mid-1970's, the Omega building sanitary system was connected to the TA-41 treatment plant. Septic tank TA-2-43 and its associated clay line were removed in 1986. At that time no contamination was detected in the tank. However, soil near the outfall area was found to have radioactivity and some of the soil was removed.

WASTE INFORMATION

The sludge in the tank was reported to contain strontium-90, cesium-137 and uranium in 1967. The tank may have received industrial liquids in addition to sanitary wastes.

RELEASE INFORMATION

Areas that were contaminated with radionuclides have been excavated to where the soil had a level of 74 pCi/g gamma and 68 pCi/g alpha; the areas were then backfilled. The extent of releases of hazardous constituents is unknown.

DRAFT

2-008 COOLING TOWER DISCHARGE

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's - 1970's

UNIT INFORMATION

The cooling tower blowdown in early days of operations discharged to Los Alamos Canyon.

WASTE INFORMATION

The blowdown from the cooling tower contained chromium.

RELEASE INFORMATION

In 1969, hexavalent chromium was found to exceed the chemical limit downstream from TA-2. Since that time dilution has occurred.

DRAFT

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

In 1986, decommissioning of several of the structures associated with operations at TA-2 was undertaken. While removing the structures, areas of above background levels of radioactivity were detected. Most of the soil was removed and taken to the radioactive waste disposal area at TA-54. Areas of residual contamination consist of 1) subsurface soil behind TA-2-50 [2-009(a)] 2) subsurface soil at a truck staging area used during decommissioning, north of TA-2-19 [2-009(b)] 3) subsurface soil below the location of tank TA-2-62 [2-009(c)] 4) subsurface soil at depths greater than 5 feet below the former location of TA-2-48 [2-009(d)] 5) subsurface soil at depths greater than 6 feet east of TA-2-48 [2-009(e)] 6) subsurface soil east of TA-2-48 near the stream bed [2-009(f)] 7) subsurface soil near the southern stream bank [2-009(g)] 8) a temporary pond area used in the decommissioning activities [2-009(h)] and 9) a small area of soil under the old off-gas transport line [2-009(i)].

WASTE INFORMATION

The subsurface low level residual activity remaining is due to small amounts of radionuclides in the soil. As far as is known, sampling for non-radioactive contamination was not undertaken.

RELEASE INFORMATION

Possible mobilization from these small areas of residual contamination is not known.

DRAFT

2-010 CHEMICAL SHACK WASTE UNITS

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): OTHER: WASTE HANDLING
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1940's - 1971

UNIT INFORMATION

A small chemical shack, TA-2-3, was located to the east of the main reactor building. The work in this shack did not involve any reactor activities. It was used for a variety of purposes, involving radioactive material and chemicals. Ducts, an off gas stack, and industrial drains were associated with the shack. The building was removed in 1971.

WASTE INFORMATION

The wastes probably included residuals of uranyl nitrate, perchloric and other acids, and solvents.

RELEASE INFORMATION

Release information is lacking.

DRAFT

SUMMARY

LOCATION: TA-2
TYPE OF UNIT(s): TRENCH
UNIT USE: TRANSPORT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1956 - PRESENT

UNIT INFORMATION

There is a concrete lined trench used occasionally to carry non-radioactive cooling water between the fuel handling pit of the Omega West Reactor and the stream when the pit needs to be drained. In 1987, a tiny amount of radioactivity of unknown origin was discovered near the outlet of this drain. The drain was subsequently decontaminated.

WASTE INFORMATION

Water from the fuel handling pit which has been reported to be free from radionuclide contamination is discharged through the trench.

RELEASE INFORMATION

So far as is known there have been no releases of hazardous materials.

DRAFT

TA-2 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
2-001	Not shown, location unknown
2-002	2-1
2-003(a)	2-1
2-003(b)	2-1
2-003(c)	Not shown, location unknown
2-003(d)	2-1
2-003(e)	2-1
2-004(a)	2-1
2-004(b)	2-1
2-004(c)	2-1
2-004(d)	2-1
2-004(e)	2-1
2-004(f)	2-1
2-005	2-1
2-006	2-1
2-007	2-1
2-008	2-1
2-009(a)	2-1
2-009(b)	2-1
2-009(c)	2-1
2-009(d)	2-1
2-009(e)	2-1
2-009(f)	2-1
2-009(g)	2-1
2-009(h)	2-1
2-009(i)	2-1
2-010	Not shown, location unknown
2-011	Not shown, location unknown

NOTE: Some structure locations contain more than one SWMU.

DRAFT

301215 02 01 B134

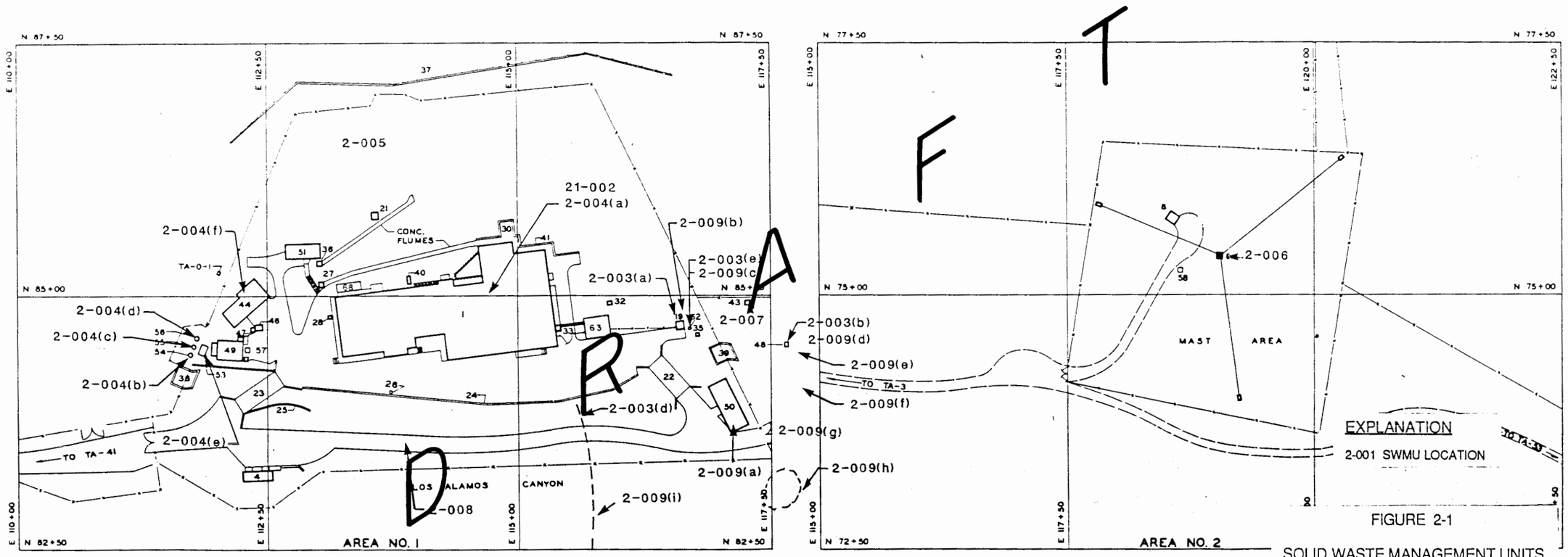
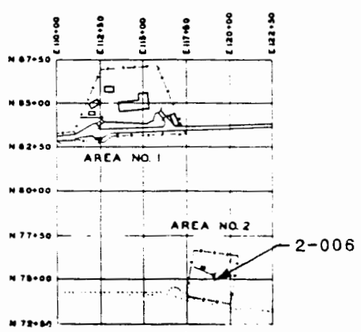


FIGURE 2-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-2



INDEX MAP FOR AREAS NOS 1 & 2
NO SCALE

1" = 50'

GRAPHIC SCALE

TRUE NORTH
GRID NORTH
MAG. DECLINATION

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
1	8-4-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-1-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-2 OMEGA SITE

SEC CLASSIFICATION
CLASS: U
REVIEWER
DATE 8-23-83

SUBMITTED	RECOMMENDED	APPROVED

DRAWN	DATE	SHEET NO.	DRAWING NO
CHECKED	8-4-83	2 of 2	ENG-R 5102

301215 02 01 149

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-2-1	OMEGA-1	MAIN BUILDING		N85+00 E115+00
TA-2-2	OMEGA-2		REMOVED 1948	
TA-2-3	OMEGA-3		REMOVED 1971	
TA-2-4	OMEGA-4	LABORATORY BUILDING		N82+50 E112+50
TA-2-5	OMEGA-5		REMOVED 1948	
TA-2-6	OMEGA-6		REMOVED 1960	
TA-2-7	OMEGA-7		REMOVED 1950	
TA-2-8	OMEGA-8	BLOWER HOUSE		N75+00 E117+50
TA-2-9	OMEGA-9	MAST		N75+00 E120+00
TA-2-10	OMEGA-10		REMOVED 1949	
TA-2-11	OMEGA-11		REMOVED 1949	
TA-2-12	OMEGA-12		REMOVED 1953	
TA-2-13	OMEGA-13		REMOVED 1950	
TA-2-14	OMEGA-14		REMOVED 1950	
TA-2-15	OMEGA-15		REMOVED 1948	
TA-2-16	OMEGA-16		REMOVED 1958	
TA-2-17	OMEGA-17		REMOVED 1950	
TA-2-18	OMEGA-18		REMOVED 1950	
TA-2-19	OMEGA-19	STACK GAS VALVE HOUSE		N85+00 E117+50
TA-2-20	OMEGA-20		REMOVED 1950	
TA-2-21	OMEGA-21	WATER LINE VALVE HOUSE		N85+00 E112+50
TA-2-22	OMEGA-22	EAST BRIDGE		N85+00 E117+50
TA-2-23	OMEGA-23	WEST BRIDGE		N85+00 E112+50
TA-2-24	OMEGA-24	RETAINING WALL	NORTH BANK	N85+00 E115+00
TA-2-25	OMEGA-25	RETAINING WALL	SOUTH BANK	N85+00 E112+50
TA-2-26	OMEGA-26	SALVAGE BASIN	ABANDONED 1953	N85+00 E115+00
TA-2-27	OMEGA-27	DROP INLET		N85+00 E112+50
TA-2-28	OMEGA-28	SURFACE INLET		N85+00 E112+50
TA-2-29	OMEGA-29		REMOVED 1950	
TA-2-30	OMEGA-30	BEAM TRAP		N85+00 E115+00
TA-2-31	OMEGA-31		REMOVED 1950	
TA-2-32	OMEGA-32	UNDERGROUND CHAMBER	ABANDONED 1971	N85+00 E115+00
TA-2-33	OMEGA-33	PIPE TRENCH	ABANDONED 1973	N85+00 E115+00
TA-2-34	OMEGA-34		REMOVED 1945	
TA-2-35	OMEGA-35	DRAINAGE BASIN		N85+00 E117+50
TA-2-36	OMEGA-36	DROP INLET		N85+00 E112+50
TA-2-37	OMEGA-37	ROCK CATCHER		N87+50 E115+00
TA-2-38	OMEGA-38	STREAM DEBRIS CATCHER		N85+00 E112+50
TA-2-39	OMEGA-39	STREAM DEBRIS CATCHER		N85+00 E117+50
TA-2-40	OMEGA-40	MANHOLE, GAS PRV		N85+00 E115+00
TA-2-41	OMEGA-41	RETAINING WALL		N85+00 E115+00
TA-2-42	OMEGA-42			
TA-2-43	OMEGA-43	TANK, SEPTIC		N85+00 E117+50
TA-2-44	OMEGA-44	EQUIPMENT BUILDING		N85+00 E112+50
TA-2-45	OMEGA-45		REMOVED 1960	
TA-2-46	OMEGA-46	TANK, SURGE		N85+00 E112+50
TA-2-47	OMEGA-47	MANHOLE, WATER		N85+00 E112+50
TA-2-48	OMEGA-48	MANHOLE, ACID		N85+00 E117+50
TA-2-49	OMEGA-49	COOLING TOWER		N85+00 E112+50
TA-2-50	OMEGA-50	STORAGE BUILDING		N85+00 E117+50
TA-2-51	OMEGA-51	SUBSTATION		N85+00 E112+50
TA-2-52	OMEGA-52		REMOVED 1968	
TA-2-53	OMEGA-53	PIT, ACID		N85+00 E112+50
TA-2-54	OMEGA-54	TANK, ACID U.G.		N85+00 E112+50
TA-2-55	OMEGA-55	TANK, ACID U.G.		N85+00 E112+00
TA-2-56	OMEGA-56	TANK, ACID U.G.		N85+00 E112+00
TA-2-57	OMEGA-57	VALVE HOUSE, WATER		N85+00 E112+50
TA-2-58	OMEGA-58	STACK MONITORING BUILDING		N75+00 E117+50
TA-2-59	OMEGA-59	TRANSFORMER STATION	NOT SHOWN	
TA-2-60	OMEGA-60	TRANSFORMER STATION	NOT SHOWN	
TA-2-61	OMEGA-61	METERING STATION	NOT SHOWN	
TA-2-62	OMEGA-62	EFFLUENT HOLDING TANK U.G.		N85+00 E117+50
TA-2-63	OMEGA-63	BOILER HOUSE		N85+00 E115+00
TA-2-64	OMEGA-64	MANHOLE, ACID	PROPOSED	
TA-2-65	OMEGA-65	MANHOLE, ACID	PROPOSED	
TA-2-66	OMEGA-66	COVERED LOADING DOCK	NOT SHOWN	
TA-2-67	OMEGA-67	TANK, FUEL	NOT SHOWN	
TA-2-68	OMEGA-68	TRAILER, LABORATORY	FORMERLY TA-0-28	N85+00 E112+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-1	ULR-1	MANHOLE	WATER	N85+00 E112+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 2-2

TA-2 STRUCTURE LOCATION INDEX

UNCLASSIFIED

REV	DATE	REVISION	BY	CKD	APP
17	8-19-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-27-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-2 OMEGA SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED	RECOMMENDED	APPROVED

DRAWN; CHECKED; DATE 8-19-83; SHEET NO 1 OF 2; DRAWING NO ENG-R 5102

TA-3

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 3 is located on South Mesa between Los Alamos Canyon on the north and Two Mile Canyon on the south. In addition, Sandia and Mortandad Canyons head on the east margin of TA-3.

Numerous operations currently are performed at TA-3 and are summarized below:

- Gas-fired power plant
- Irradiated fuel examination facility
- Metallurgical research
- Analytical chemistry services
- MEC shops
- Printing, reproduction, and photographic services
- Controlled thermonuclear research
- Telecommunication management
- Development and fabrication of materials
- Center for Materials Science
- Van de Graaff Accelerator and Ion Beam Facility
- Computing
- Garage, gas station, shops, warehouse, and support facilities
- Engineering
- Geosciences

Laboratory administration, personnel services, health services, and a museum are also housed at TA-3.

The elevation of TA-3 ranges from about 7,300 feet asl at the eastern ends of South and Sigma Mesa to about 7,450 feet asl at the western edge of the technical area. TA-3 lies in the Ponderosa Pine overstory vegetation zone. The area is underlain by a welded member of the Bandelier Tuff, forming steep cliffs at the top of canyon walls. The soils around TA-3 are described as Carjo loam. The soil is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute event on bare soil), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr from an unprotected surface).

The potentiometric surface of the main aquifer lies at about 6,100 to 6,200 feet. The unsaturated zone, consisting of variously welded tuffs, is over 1,000 feet thick beneath TA-3.

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1970's - PRESENT

UNIT INFORMATION

The following are active container storage areas based on a 10/88 LANL database:

LOCATION	SWMU NO	UNIT TYPE	SETTING
TA-3-39	3-001(a)	<90 day	loading dock
TA-3-40	3-001(b)	<90 day	loading dock
TA-3-40	3-001(b)	satellite	Room N121
TA-3-40	3-001(b)	satellite	Room S106
TA-3-40	3-001(b)	satellite	Room S12
TA-3-40	3-001(b)	satellite	Room S123
TA-3-40	3-001(b)	satellite	Room S130
TA-3-40	3-001(b)	satellite	Room S31
TA-3-40	3-001(b)	satellite	Room W112
TA-3-40	3-001(b)	satellite	Room W116
TA-3-40	3-001(b)	satellite	Room W122
TA-3-40	3-001(b)	satellite	Room W123
TA-3-40	3-001(b)	satellite	Room W130
TA-3-40	3-001(b)	satellite	photo lab
TA-3-40	3-001(b)	satellite	Room S2
TA-3-102	3-001(c)	<90 day	corner of shop
TA-3-170	3-001(d)	satellite	
TA-3-30	3-001(e)	satellite	west side
TA-3-38	3-001(f)	satellite	tool room
TA-3-38	3-001(f)	<90 day	15' sq concrete pad
TA-3-382	3-001(g)	satellite	
TA-3-383	3-001(h)	satellite	20' sq concrete pad
TA-3-473	3-001(i)	satellite	
TA-3-66	3-001(j)	satellite	basement/loading dock
TA-3-70	3-001(k)	satellite	
TA-3-34	3-001(l)	satellite	loading dock
TA-3-16	3-001(m)	<90 day	
TA-3-316	3-001(n)	<90 day	
TA-3-41	3-001(c)	satellite	

In 1986/1987, a used oil storage facility [3-001(p)] was built near the north side of TA-3-271. It has a concrete floor which is bermed on all sides and the floor slopes toward a sump. The structure has a roof but the sides of the structure are open. In 1988, a used battery storage facility was constructed adjacent to the oil storage area. The structure has a roof, open sides, and a concrete floor. Currently, batteries are stored nearby. The batteries are shipped offsite for recycling. Drums containing lead are also stored outside the battery storage area. The active container storage areas are inspected regularly. The schedule is dependent on the type of material stored. A November 1988 field survey noted the following container storage areas outside:

LOCATION	SWMU NO.
TA-3-282	3-001(q)
TA-3-70	3-001(k)
TA-3-223	3-001(r)
TA-3-47	3-001(s)
TA-3-34, -32	3-001(t)
TA-3-316	3-001(n)
TA-3-16	3-001(m)
TA-3-105, -287	3-001(u)
TA-3-382	3-001(g)

DRAFT

WASTE INFORMATION

The following table describes the waste stored at these container storage areas.

LOCATION	WASTE
TA-3-39	waste coolants, oils, acids, and catalysts
TA-3-40	solvents, photo processing waste, and unknown
TA-3-102	lithium hydride
TA-3-170	vacuum pump oil/suspected radioactive
TA-3-30	solvents, radioactive oil
TA-3-70	kerosene, waste oil, capacitors, unknown
TA-3-16	radioactive
TA-3-41	unknown
TA-3-47	waste oil
TA-3-316	unknown
TA-3-282	capacitors, unmarked drums, and several oil-filled vessels
TA-3-105,-287	capacitors, unknown
TA-3-38	paints, solvents, and rags
TA-3-382	solvents
TA-3-383	solvents
TA-3-473	solvent contaminated lab trash
TA-3-66	solvents and chemicals
TA-3-34	unknown waste
TA-3-316	unknown
TA-3-70	diesel waste, capacitors, unknown
TA-3-34,-32	unknown
TA-3-382	waste oil
TA-3-223	capacitors, unmarked drums which may contain waste oil

The storage facilities contain waste oil, spent batteries, and lead is noted to be in the drums. The contents of the oil-filled vessels at TA-3-282 are currently undergoing analysis.

RELEASE INFORMATION

Some of the drums are noted to be leaking. There have been no hazardous releases reported from the two storage facilities.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ? - 1987

UNIT INFORMATION

Several container storage areas identified during the VSI are currently inactive. A satellite drum and tank storage area located outside of Room P-100 in the Sigma Building, TA-3-66, consisted of two 250-gallon plastic tanks for acid and caustic waste and several 55-gallon drums [3-002(a)]. The containers were stored on an asphalt pad for 3 days. Steel drums containing waste solvents were stored at the sand blast shed [3-002(b)]. A pesticide storage area [3-002(c)] consisting of two metal sheds, 12' x 16', were used for <90 day storage of pesticides and possibly other hazardous liquids. Other currently inactive container storage areas were noted during the CEARP field survey.

WASTE INFORMATION

The TA-3-66 unit contained waste liquids from electroplating processes that may have contained lead, cyanide, and acids. The drums in the sand blast shed contained waste solvents. Pesticides and other hazardous liquids were stored in the two metal sheds. Other storage areas contained waste oil, caustics, empty drums, and spent batteries.

RELEASE INFORMATION

The drums seen during the VSI at the sand blast shed appeared to be leaking. During the VSI, lack of secondary containment and spills on the floor of the pesticide storage shed were noted. It is unknown whether releases occurred from the other inactive storage areas.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE/DECOMMISSIONED
PERIOD OF USE: ? - 1988

UNIT INFORMATION

These PCB storage areas were identified in the 1986 CEARP field survey as inactive. A number of capacitors were stored outside near Buildings TA-3-218 [3-003(a)] and TA-3-253 [3-003(b)]. All PCB-marked capacitors and many of the other capacitors have been removed from the area. A fenced area outside TA-3-282 [3-003(c)] included a storage area for capacitors, transformers, and other electrical equipment. Some of the PCB-marked equipment was noted to have been leaking during the CEARP field survey. The capacitors containing PCBs were shipped off site. Several inches of soil were removed from the storage area during decommissioning. During the CEARP survey, unmarked drums and capacitors were noted to have been stored just south of TA-3-287. The area has been decommissioned.

WASTE INFORMATION

The capacitors and other electrical equipment contained oil, some containing PCBs. Drums in these areas were unmarked.

RELEASE INFORMATION

The PCB-containing equipment and contaminated soil from near TA-3-282 have been removed. Documentation on the decommissioning of other inactive container storage areas including the removal of soil has not been obtained.

DRAFT

3-004 RADIOACTIVE WASTE STORAGE AREA

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1951 - 1987

UNIT INFORMATION

This area has been used for temporary storage of drums in a hallway along the walls of the basement in TA-3-29, Wing 2, outside of Room 4041. At the time of the RFA inspection, there were eighteen 55-gallon steel drums stored on a concrete pad. The unit managed radioactive waste, including contaminated paper and glass from the lab. Wastes were scheduled to go to TA-54 (MDA-G) once the 18-drum capacity was reached (generally 30 to 45 days). Drums stored on a concrete pad in Room 2005 adjacent to the extension of the hallway storage area within the same wing of the basement were also found to manage radioactive waste. These drums were also taken to TA-54 (MDA-G) once the 13-drum capacity was reached. The status of these storage areas is unknown.

WASTE INFORMATION

The drums outside of Room 4041 contained radioactive contaminated paper and glass. The drums in Room 2005 contained solids, flammables, inorganics, metals, and radioactive waste, including contaminated paper and glass from the lab.

RELEASE INFORMATION

There have been no known releases from these storage areas.

DRAFT

3-005 SIGMA MESA CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A boneyard [3-005(a)] is located on Sigma Mesa about halfway to the end of the mesa. Near the end of the mesa, twelve drums from the Western Steam Plant (TA-0) were noted [3-005(b)]. An area approximately 100' x 3', covered with plastic sheeting is also within the mesa-end storage area. In the experimental pond area (see 3-029) several drums are also stored [3-005(c)].

WASTE INFORMATION

LANL staff report that a large number of drums marked soil and diesel waste, a drum in poor condition that contained sodium hydroxide solution, and non-PCB containing oil are stored in the boneyard. Drums of soil and diesel waste, transformers containing oil, very large vessels (contents unknown) are stored in the mesa-end storage area.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred from any of these Sigma Mesa storage areas.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1943 - 1949

UNIT INFORMATION

There were burning pits for both nonexplosive and explosive materials at South Mesa [3-006(a)]. Where all pits were located and how many pits there were is unknown. Aerial photos taken in the 1940's show what appears to be the burn pit on E. Jemez Road near where the trailer court is today. Another burn facility was located at TA-3-12 [3-006(b)]. This burning area was built in 1945 and was constructed of reinforced concrete. It was 4'4" x 8'10" x 9'11" high with a steel charging door, and it had an ash pit. The facility was removed in 1949.

WASTE INFORMATION

HE and other combustible materials are believed to have been burned in these pits.

RELEASE INFORMATION

It is believed that no releases of hazardous materials occurred.

DRAFT

3-007 FIRING CHAMBER

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960's

UNIT INFORMATION

Building TA-3-160 was used as the firing chamber for Building TA-3-159 experiments. Chamber TA-3-160 is no longer in use as a firing chamber. This unit was completed in 1964 and is constructed of prefabricated concrete wall sections consisting of two 8' high x 4' x 6" thick sections set on a 8' x 7' x 6" thick concrete slab.

WASTE INFORMATION

The waste probably consisted of HE and metal firing residues.

RELEASE INFORMATION

It is unknown whether the firing areas have caused a hazardous release, but it appears unlikely.

DRAFT

3-008 DECOMMISSIONED FIRING SITES

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The original South Mesa site [3-008(a)] consisted of: the main building, TA-3-1; a production shop, TA-3-2; a storage building, TA-3-3; four hutments, TA-3-4, -5, -6, and -7; and four magazines, TA-3-8, -9, -10, and -11. This area was used to manufacture and test detonators. Less than a half pound of HE was involved in any one firing. Explosives included PETN and azide. PETN was tested under various temperature conditions. Memos in the CEARP files document what appears to be several firing areas on South Mesa that were in use in 1943. The memos indicate that other units besides the detonators were fired. The facilities were abandoned and removed in 1949 after the detonator development program was moved to the new detonator lab on Two-Mile Mesa. A small, indoor, high pressure test area firing chamber was located in Room A-3J of TA-3-43 [3-008(b)] during the 1960's. This chamber has been decommissioned. CEARP noted that off-gasses were probably vented by a fan to the atmosphere. The exact locations of the old TA-3 firing areas are not known. The testing may have been performed in laboratory buildings.

WASTE INFORMATION

Detonators containing HE and other unknown substances were tested on the original TA-3 firing sites.

RELEASE INFORMATION

The area has been decommissioned, however, it is unknown if any residual contamination remains.

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

3-009(a) Concrete, building material and approximately 20 feet of asbestos-coated pipe were disposed of in an estimated 30' x 300' area on the north rim of Sandia Canyon south of TA-3-70 and -271. A soil disturbance is also visible upcanyon.

3-009(b) Concrete and building debris are located in an approximately 1/2 acre fill area adjacent to the South Mesa fire station (TA-3-41). The debris may be decommissioned buildings from the former TA-3.

3-009(c) A disturbed area has been noted south of TA-3-66, and concrete and building debris are visible.

3-009(d) A building fill area is located along the north rim of Two-Mile Canyon between TA-3-40 and TA-3-16.

3-009(e) A soil fill area is located in Upper Mortandad Canyon, southeast of TA-3-29.

3-009(f) There have been reports of a landfill north of TA-3-16.

3-009(g) A large soil fill area is located south of Two-Mile Canyon Bridge.

3-009(h) There are asphalt piles near TA-3-381, near the salvage yard, and on Sigma Mesa. Also on Sigma Mesa there is concrete debris near the test rack.

WASTE INFORMATION

The fill areas appear to contain fill and building debris. The asphalt piles were probably created during road repair.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred.

3-010 VACUUM PUMP OIL / SURFACE DISPOSAL

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1950's - ?

UNIT INFORMATION

A vacuum repair shop is located at TA-3-30. In the 1950's, it was the practice to dispose of contaminated vacuum pump oil over a bank at the back of the building. Later, a pipe draining to the same location was installed. It has been estimated that 150-200 pounds of mercury were disposed with the oil. The area on the west end of the building was paved several years ago. It is unknown if the pipe was removed.

WASTE INFORMATION

The vacuum pump oil contained mercury, and possibly beryllium, tritium, and transuranics.

RELEASE INFORMATION

The oil was dumped over the bank, and the pipeline carried waste oil to the canyon. Sampling has been undertaken, but results are not available. The areal extent of contamination from this practice is unknown.

DRAFT

3-011 WASHING PLATFORM OPERATIONAL RELEASE

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1956 - 1970's

UNIT INFORMATION

Carboy washing platform TA-3-101 was built in 1956. It was a reinforced concrete 10' x 10' x 6" thick pad approximately 1'6" above the ground. The platform was removed in 1980.

WASTE INFORMATION

The waste released from the platform consisted of carboy wash waste liquids; the constituents of this waste are unknown.

RELEASE INFORMATION

It is unknown whether the liquids released from the platform contained hazardous constituents.

DRAFT

3-012 CHILLED WATER OPERATIONAL RELEASE

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

In 1972, the chilled water system at TA-3-66 was scheduled for scale removal using an ammonium bifluoride solution. Leaks in the system resulted in discharge to the sewer which ultimately led to release of 600-700 pounds of soluble fluoride into Sandia Canyon [3-012(a)]. Between 1950 and the 1970's, chromates were used to treat cooling water from the steam/electric generating plant, TA-3-22. Drift loss and the cooling water discharge to Sandia Canyon [3-012(b)] contributed to elevated hexavalent chromium in the surrounding area.

WASTE INFORMATION

The chilled water system discharged fluorine to the sewer. The cooling water contained chromates.

RELEASE INFORMATION

The highest measured fluorine concentration in the Sandia Canyon stream was 48 ppm. Drift loss from the cooling tower and discharges to an outfall resulted in a release of hexavalent chromium. Up to 34 ppm has been reported in the outfall. This liquid sank into the alluvium in Sandia Canyon within four miles of the outfall.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: EST.1960's - PRESENT

UNIT INFORMATION

During 1968, Stoddard solvent from the Pan Am maintenance shop, drycid and caustic materials from the fitters operation in TA-3-38 were being disposed of in the ditch that traversed the main parking lot of the Administration Building. During the 1960's and 1970's (estimated) spent paint solvents may have been poured into the floor drains of TA-3-38, which are also connected to the storm drain. According to CEARP, steps were taken to discontinue these practices. Also at TA-3-38, items are suspended by a crane above a small asphalt pad outdoors for cable wash down which discharges to a 1200 gallon vat.

WASTE INFORMATION

The wastewater from the maintenance shop may contain small quantities of lead, chromium, zinc, tin, copper, and nickel. Solvents, Drycid, caustics, and spent paint solvents were discharged to the TA-3-38 floor drains. The cable is washed down with kerosene in the vat. The kerosene is recycled.

RELEASE INFORMATION

The extent of possible contamination from the shop and TA-3-38 is not known. There are currently no discharges from cable cleaning activities. When necessary, kerosene is drummed and handled as hazardous waste.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): WASTEWATER TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The TA-3 wastewater treatment plant is a large operation, and it consists of many separate components. The two main plants are designated 1 and 2. The following tables list the components in each plant.

PLANT 1				PLANT 2			
STRUCTURE	SWMU NO	STRUCTURE TYPE	BUILT	STRUCTURE	SWMU NO	STRUCTURE TYPE	BUILT
TA-3-49	3-014(a)	Imhoff Tank	1951	TA-3-192	3-014(e)	Imhoff Tank	1965
TA-3-48	3-014(b)	Dosing Siphon	1951	TA-3-193	3-014(f)	Dosing Siphon	1965
TA-3-47	3-014(c)	Trickling Filter	1951	TA-3-194	3-014(g)	Trickling Filter	1965
TA-3-46	3-014(d)	Secondary Clarifier	1951	TA-3-195	3-014(h)	Secondary Clarifier	1965

A concrete splitter box, bar screen and comminutor were built in 1951 and are located at TA-3-677 [3-014(i)]. The chlorination system is located at TA-3-166 [3-014(j)] and consists of a dosing chamber, a contact chamber and a pump pit. The contact chamber is a 15' x 15' x 6' concrete pit with a flow weir, 225 feet square, also made of concrete. The pump pit contains the effluent pump. It was built in 1957 of reinforced concrete. The pit is 9'4" x 11'4" x 10'10" deep and has a steel grating cover. The following table describes the sludge drying beds adjacent to the plant.

STRUCTURE	SWMU NO	DIMENSIONS	COMPLETED
TA-3-196	3-014(k)	35' x 10'	1965
TA-3-197	3-014(l)	40' x 20'	1965
TA-3-198	3-014(m)	40' x 20'	1965
TA-3-199	3-014(n)	40' x 20'	1965
TA-3-1871	3-014(o)		1987

Note: Structures TA-3-51 and 52 were sludge drying beds built in 1951 and removed in 1965.
Auxillary facilities associated with the wastewater treatment plant are as follows:

STRUCTURE	SWMU NO	STRUCTURE TYPE	BUILT	CONSTRUCTION
TA-3-265	3-014(p)	sewage lift station	1966	reinforced concrete 6' x 10' x 5'4" deep over a 42" dia cast iron basin
TA-3-336	3-014(q)	effluent sewage storage tank	1967	steel, 500,000 gallons
TA-3-693	3-014(r)	sewage pump station	1970's	2-7 1/2 hp pumps
TA-3-1693	3-014(s)	lift station		5' dia, 11' deep, 2 pumps
TA-3-1869	3-014(t)	lift station	1987	
TA-3-1901	3-014(u)	sanitary liquid holding tank	1988	1500 gallons

The plant components are used for the biological treatment of wastewater. The plant has an outfall to Sandia Canyon (see Appendix A).

WASTE INFORMATION

The treatment plant manages sanitary waste from TA-3 and TA-43. At times the liquids removed from Laboratory septic tanks are taken to TA-3. Unknown quantities of industrial liquids may have been included in the waste in previous years.

DRAFT

RELEASE INFORMATION

The treated effluent is used either as cooling water for the electric generating plant or is discharged in a NPDES outfall.

DRAFT

3-015 ROLLING MILL OUTFALL REGION

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

There is an outfall area north of TA-3-141 which received wastes from a floor drain, a roof drain, and possibly other drains. It is probable that prior to the NPDES permit program the soils in the outfall area received uranium. Uranium is no longer discharged to the outfall and TA-3-141 currently discharges to a NPDES outfall.

WASTE INFORMATION

The outfall area probably contains uranium and other constituents which had been used in TA-3-141.

RELEASE INFORMATION

No sampling has been conducted to assess the extent of radioactive contamination, if any.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Septic tanks that are active or whose status is unknown at TA-3 are as follows:

STRUCTURE	SWMU NO	USE PERIOD	CAPACITY/CONSTRUCTION	OVERFLOW
TA-3-1484	3-016(a)	1984-present	1000 gal, precast fiberglass	seepage pit TA-3-1667 3-016(b)
TA-3-1885	3-016(c)	1988-present	1000 gal	seepage pit TA-3-1886 3-016(d)

Seepage pit TA-3-1667 is believed to have been constructed in 1986 and located east of TA-3-130. Seepage pit TA-3-1886 is located northeast of the Pan Am Test Facility on Sigma Mesa.

WASTE INFORMATION

The primary waste managed by the septic systems is assumed to be sanitary. It is not known if the systems may have received hazardous materials.

RELEASE INFORMATION

There have been no known hazardous releases from any of these septic systems. Detailed sampling has not been performed.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Inactive septic systems at TA-3:

STRUCTURE	SWMU NO	UNIT TYPE	USE PERIOD (EST.)	CAPACITY/CONSTRUCTION
TA-3-79	3-017(a)	tank	1954 - ?	500 gal.
TA-3-689	3-017(b)	tank	1970 - ?	?
TA-3-272	3-017(c)	tank	1960's - ?	1000 gal.

Tank TA-3-272 is located 60 feet east of the southeast corner of TA-3-271. TA-3-689 is located near TA-3-282 and was probably built to serve that building. Information on TA-3-689 is lacking. TA-3-79 is believed to have served the batch plant.

WASTE INFORMATION

Detailed information on possible discharges of industrial liquids to the tanks is lacking.

RELEASE INFORMATION

It is unknown whether these tanks have released hazardous waste.

DRAFT

3-018 CESSPOOL

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950 - 1960

UNIT INFORMATION

This cesspool was constructed of concrete block and is 4' in diameter. The height is unknown. It was abandoned and filled with earth in 1964.

WASTE INFORMATION

The wastes are believed to have been spent laboratory liquids from the Van de Graaff facility and may have included mixed waste.

RELEASE INFORMATION

The cesspool released liquids to the surrounding soil. It is suspected that hazardous constituents were released.

DRAFT

3-019 DECOMMISSIONED SEPTIC SYSTEM

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1950 - 1964

UNIT INFORMATION

Tank TA-3-15 served the Van de Graaff facility. The facility included a dark room and laboratory area where solvents and chemicals were handled. Small quantities of radionuclides, including tritium, may be present in liquids placed in the industrial drains; the drains probably discharged to this tank in previous years. It was built in 1950, was made of concrete, and had the dimensions of 4' x 9' x 5'. It is believed to have been abandoned in 1951 when the sewer line was completed. It was removed in 1964 according to engineering drawings; however, another report indicates that the tank was included as a component of a waste line.

WASTE INFORMATION

The waste is expected to have been sanitary but may have included industrial type wastes containing small quantities of chemicals, solvents, and possibly radionuclides.

RELEASE INFORMATION

It is unknown whether a hazardous release occurred from this tank.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

On the east side of TA-3-287 is a covered pit. There is a pipe running into the pit and a screen with pebbles below it. The area around the pit appeared oily. An employee indicated that the pit was used to discharge liquids from the air compression system.

WASTE INFORMATION

The waste probably consists of air compressor oil.

RELEASE INFORMATION

It is unknown whether the waste contains hazardous constituents that could be released.

DRAFT

3-021 CAUSTIC WASTE SUMP

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE/DECOMMISSIONED
PERIOD OF USE: EST. 1960's

UNIT INFORMATION

The liquid and compressed gas facility TA-3-170 was designed to handle and store various gases required by the laboratory. In the early years of the facility's operation, the gas bottles were cleaned with caustic soda prior to repainting, and the effluent was discharged to a sump, which in turn discharged through a soil pipe to a "ditch wetlands area." All that remains is a hole in the floor covered by a board. The area where some of the liquid drained is the site of a new building addition.

WASTE INFORMATION

The waste consisted of caustic soda and residues removed from the bottles. The pH of the discharge liquid is not known.

RELEASE INFORMATION

The sump discharged to a drainage area; however, it is unknown whether the effluent contained hazardous constituents.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1979 - PRESENT

UNIT INFORMATION

Since the high voltage test facility TA-3-316 uses a Marx generator, oil storage for the machine is necessary. The oil is stored in two 15,000 gallon tanks south of the facility. A large underground sump, TA-3-550, is located under the tanks. According to engineering records the tanks are 84' x 17', although a field inspection indicated the tanks are less than 17' wide. Oily water was observed in the sump during a November 1988 survey. Additionally, oil spills near the sump were noted. The sump is concrete, open to the atmosphere, and covered with a metal screen. The sump is pumped, if necessary, although pumping is an infrequent occurrence, according to LANL staff.

WASTE INFORMATION

The sump handles oil and water, including water from natural precipitation into the sump.

RELEASE INFORMATION

Although spills were noted around the sump, no leaks from the sump are believed to have occurred. It is unknown whether there have been releases of hazardous constituents from the sump.

DRAFT

3-023 INACTIVE OIL SUMP

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1959 - 1978

UNIT INFORMATION

TA-3-148 is listed in engineering records as a manhole oil sump pit. It was completed in 1959 and abandoned in place in 1978. The sump's use is not known; however, it may have been used in conjunction with experiments in the Sherwood Building, TA-3-105.

WASTE INFORMATION

The sump reportedly handled oil, whether the oil was waste oil is not known.

RELEASE INFORMATION

It is unknown whether a hazardous release from this sump has occurred.

DRAFT

3-024 PROCESS WATER PUMP PIT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1962 - PRESENT

UNIT INFORMATION

TA-3-174 is a pump pit connected to Building TA-3-141, the rolling mill building. The pump pit is built of reinforced concrete, about 13'8" x 19'8" x 11'10" average depth, with steel and concrete cover. The pump is used for process water.

WASTE INFORMATION

The pump pit receives process water.

RELEASE INFORMATION

It is unknown whether there have been hazardous releases from this unit.

DRAFT

3-025 SUMPS AND OIL TRAP

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

In the shops of Building TA-3-34 [3-025(a)], the steam cleaning drain connects via an oil trap sump to the industrial waste line sewer to TA-50. In Building TA-3-102 [3-025(b)], the industrial drains connect via an oil trap into the industrial drain to TA-50. Since radioactive materials are handled in TA-3-102 the oil trap residues are absorbed in vermiculite and sent to the radioactive disposal site (MDA-G).

WASTE INFORMATION

The waste managed by the traps is radionuclide-contaminated oil and grease.

RELEASE INFORMATION

There have been no known releases of hazardous constituents from these units.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Three aboveground tanks holding electroplating fluids are set in sumps in Building TA-3-66. The tanks are each 36' x 36' x 4' (250 gallons). The sumps collect the liquids that spill from the tanks. The liquid from the sumps is pumped into 55-gallon drums.

WASTE INFORMATION

The spent electroplating fluids in TA-3-66 are considered EP Toxic.

RELEASE INFORMATION

There have been no known releases from these sumps to the outside environment.

DRAFT

3-027 VEHICLE MAINTENANCE OIL AND WATER SEPARATORS

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Pan Am motor vehicle facilities at TA-3 contain several oil and water separators. In the motor repair shop, TA-3-382 [3-027(a)], the floor drains are connected to grease/oil traps. The grease/oil residue from the traps is sent to two 580-gallon waste oil tanks and the decant (water separated from the grease/oil) is routed to the sanitary sewer. Behind TA-3-382 is an oil and water separator. Outside, at the motor repair shop, vehicles may be washed/steam cleaned. Runoff from vehicle washing operations goes to a drain and then into the grease/oil separator before the liquid decants to the sanitary sewer. The other motor vehicle station, TA-3-36 [3-027(b)], also uses separators which decant to the storm sewer.

WASTE INFORMATION

The waste consists of oil and grease.

RELEASE INFORMATION

Decant from the sumps discharges to sanitary and storm sewers. There have been no known hazardous releases from these units.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE/RECYCLING/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Fan Am directs scrubber water from the asphalt plant scrubber into two concrete holding ponds. Water is recycled to the scrubber except for a bleed stream used to wash down vehicles and equipment.

WASTE INFORMATION

The ponds manage fine mineral dust.

RELEASE INFORMATION

It is unknown if hazardous constituents have been present in washwater from the bleed stream that discharges to a canyon.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

Two inactive surface impoundments are present at TA-3. A solar pond [3-029(a)] was used in a study to evaluate the evaporation of radioactive liquids. Approximately 25,000 gallons of treated effluent from the TA-50 treatment plant were placed in the pond at one time. The pond is fenced and posted as radioactive. South of TA-3-271 near Sandia Canyon [3-029(b)] a pit marked "asphalt and sealer accumulation point" was found by the 1986 CEARP field survey. Several inches of free standing liquid were in the bottom of this unlined pit. Evidence indicates that this operational practice had gone on for some time. The pit has now been covered. It is possible that similar pits line the edge of Sandia Canyon, because when one pit was full, a new pit was constructed.

WASTE INFORMATION

The solar pond contains tritium and other low level radionuclides. The accumulation ponds contain asphalt emulsion, sealant, and other petroleum products.

RELEASE INFORMATION

The solar pond was equipped with a plastic liner underlain by sand/bentonite/sand. No releases have been reported from any of the impoundments. No sampling has been undertaken in the area near Sandia Canyon.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ?

UNIT INFORMATION

A large pit (0.25 acres) was located on Sigma Mesa and was used as a mud pit [3-030(a)] for the drilling of a geothermal test well. The pit has been removed. At TA-3-66 [3-030(b)] a 200,000 gallon earthen pit was constructed in 1972 for clean-up of the chilled water system. The pit received water containing dilute amounts of fluoride. The solution was neutralized to precipitate the fluoride. This pond has also been removed.

WASTE INFORMATION

The waste at the Sigma Mesa pit consisted of drilling mud residues. The specific constituents are not known. The pond at TA-3-66 contained precipitated fluoride compounds.

RELEASE INFORMATION

The pit and pond have been removed. It is unknown whether hazardous releases have occurred.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

The industrial sewer system within TA-3-29 (CMR) consists of double encased stainless steel sewer vaults, tanks, sumps, and drain lines which discharge to the industrial waste line for treatment at TA-50. Liquid radioactive waste from operations at the CMR building either drain directly to this waste line or through the sumps and/or tanks and then to the waste line. In addition, floor drains, air duct washwater, and in some cases, the perchloric acid scrubber were serviced by two concrete tanks in the basement of each wing of the building. These tanks are currently on stand-by and, if used, would also drain to the industrial waste line. The present TA-3-29 system has been in operation since 1982.

WASTE INFORMATION

The waste discharged to the sumps and tanks contains radioactive and mixed waste constituents. The vaults are expected to handle solids, liquids, gases, and sludges containing corrosives, flammables, reactives, EP toxics, inorganics, and metals.

RELEASE INFORMATION

A computerized leak detection and valve control system at TA-50 monitors the sewer lines for leaks. No releases from the sewer vaults were observed during the VSI or have been reported in the past. The tanks and sumps have leaked, but the releases have been contained within the building.

DRAFT

3-032 SCRUBBER TANK

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): ABOVEGROUND TANK
UNIT USE: RECYCLING/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

According to CEARP, in the Pan Am operations, a spray booth in TA-3-38 has off-gases treated by a wet scrubber. The tank is approximately 3' x 2' x 3' deep. The scrubber water drains to the tank for recycling. Periodically, the tank liquid is drained to the floor drain. The drain connects to the sanitary system, however, it is not used and wastes are drummed.

WASTE INFORMATION

The waste liquid probably contains solvents and metals. Sampling has shown low levels of solvents on occasion.

RELEASE INFORMATION

Low levels of solvents were detected on one occasion.

DRAFT

3-033 PRINTED CIRCUIT SHOP TANKS AND SUMPS

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

For many years a printed circuit shop has operated at TA-3-40, the physics building. The liquid wastes generated by the printed circuit facility are discharged to a 200 gallon capacity underground storage tank and then to aboveground drums. The drums are removed from the site by HSE-7. The aboveground container storage area has a concrete sump below it. A November 1988 field survey observed liquid in this sump. In previous years, an 800-gallon aboveground tank was used instead of the drums. The fate of this tank is unknown.

WASTE INFORMATION

The liquid wastes held by the storage tanks contain hydrochloric acid, ferric chloride, nickel, copper, gold, pyrophosphate solutions, fluoroborate, and lead-tin fluoroborates.

RELEASE INFORMATION

The waste is removed from the site by HSE-7. The integrity of the underground tank or the sump has not been verified. It is unknown whether hazardous releases have occurred from this unit.

DRAFT

3-034 RADIOACTIVE WASTE STORAGE TANKS

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960's - PRESENT

UNIT INFORMATION

A special building, TA-3-154, was constructed in 1961 to serve TA-3-29, Wing 9. This building contains four tanks that store radioactive waste. Two of the tanks are constructed of stainless steel, underlain by concrete, and were used to store high-level radioactive waste. The CEARP field survey observed that the tanks are no longer in use, but they are operational. Two concrete underground storage tanks were used to store low-level radioactive waste. The four tanks comprise a system that drained the hot cell area. All four tanks are on stand-by status.

WASTE INFORMATION

The waste handled by the stainless steel tanks was high-level radioactive waste liquids. The concrete tanks handled low-level radioactive waste liquid.

RELEASE INFORMATION

The high-level waste tanks are in vaults for secondary containment. While in operation, the high-level and low-level waste storage tanks had no unexplained changes in liquid levels that might indicate leakage.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The following product tanks were found to leak after a volumetric test was performed in 1986.

TANK	SWMU NO	CAPACITY (GAL.)	DATE INSTALLED	LOSS RATE
TA-3-36-1	3-035(a)	10,152	1980	>4.0 gal/hr
TA-3-36-3	3-035(b)	2,961	1973	>4.0 gal/hr
TA-3-3B2-2	3-035(c)	10,152	1978	0.2-0.3 gal/hr
TA-3-1255	3-035(d)	4,030	1979	>4.0 gal/hr

Tanks TA-3-36-1 and -2 are part of a tank farm at the gasoline station, Tank TA-3-3B2-2 is one of four USTs at the motor pool, and Tank TA-3-1255 stores fuel for the central alarm system. TA-3-36-1 has been retested and tested tight.

WASTE INFORMATION

The tanks with SWMU numbers 3-035(b) through (d) contain diesel fuel. SWMU number 3-035(a) stores unleaded gasoline that may contain benzene and toluene and meets the criteria for an ignitable substance.

RELEASE INFORMATION

Testing indicates that the tanks have leaked. It is unknown how long the tanks have leaked.

3-036 PRODUCT TANK CONTAINMENT AREAS

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Three containment areas for the aboveground product storage tanks, operated by Pan Am, are present near the asphalt plant: 1) Two aboveground steel asphalt storage tanks, TA-3-75 and -76, are in a soil-bermed containment area [3-036(a)]. These aboveground tanks are 6' diameter and 20' long. Within the bermed area, the soil is oily in spots because sometimes the tanks are overfilled, resulting in spills. These tanks serve the asphalt plant and other operations. Modifications to improve the area are in progress. 2) There is a soil containment area with a berm for kerosene tanks at the batch plant, located just west of the asphalt plant [3-036(b)]. 3) A catchment basin [3-036(c)] is used as a spill control area. It is located in the loading area of TA-3-382, the Pan Am Tank Farm. According to CEARP, a drain valve in the basin allows liquids to be drained to a storm sewer which outfalls into the canyon. A November 1988 field inspection noted no oil stains that would indicate the basin had been used.

WASTE INFORMATION

The areas are used for secondary containment of product storage tanks containing asphalt emulsion and kerosene. The catchment basin is intended to control spills of petroleum products (e.g. diesel and gasoline).

RELEASE INFORMATION

Soil surrounding the asphalt emulsion tanks in the containment area was oily due to overfilling and uncontrolled surface drainage. It is unknown whether kerosene has leaked from the tanks in the containment area. The catchment basin may never have been used. It is unknown whether there have been hazardous releases from these areas.

DRAFT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1960 - PRESENT

UNIT INFORMATION

Two underground storage tanks at TA-3-66 can be used for storage of spent cyanide and acid from electroplating operations. The tanks are constructed of concrete and are underlain by concrete. The cyanide waste is neutralized and picked up by HSE-7. The small amount of acid waste that is generated is pumped to TA-50.

WASTE INFORMATION

The two tanks in TA-3-66 can handle spent electroplating liquids that contain acid, cyanide, and EP toxic metals.

RELEASE INFORMATION

No hazardous releases are known to have occurred from the tanks at TA-3-66.

DRAFT

3-038 DECOMMISSIONED INDUSTRIAL WASTE LINES

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): WASTE LINE
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1950's - 1970's

UNIT INFORMATION

Industrial waste lines and associated facilities connected TA-3 to the liquid waste treatment system in use at that time. In addition to numerous underground pipes, the system included TA-3-700 [3-038(a)], an acid neutralizing and pumping building. The neutralizing building was completed in 1952 and was removed in 1982. TA-3-738 [3-038(b)] was a retention tank that also was removed in 1982.

WASTE INFORMATION

The waste consisted of liquids containing mixed waste generated in TA-3 operations.

RELEASE INFORMATION

The area around TA-3-700 was contaminated from leaks in the lines as were several other areas. It is believed that these areas have been cleaned up, although minor residuals may remain.

DRAFT

3-039 SILVER RECOVERY

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): RECYCLING UNIT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

There are several photoprocessing operations in TA-3-43. These operations use silver recovery units. The silver recovery units consist of resin in canisters.

WASTE INFORMATION

The unit manages spent photoprocessing solutions that contain silver.

RELEASE INFORMATION

The loaded resin is transported offsite for silver recovery. The discharge liquid is routed to the sanitary sewer. It is unknown if hazardous constituents have been released from these units.

DRAFT

3-040 PHOTOGRAPHIC FILM STORAGE / TREATMENT

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): OTHER: PHOTO FILM STORAGE
UNIT USE: STORAGE/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Some photographic film is stored in a vault at TA-3-30. When sufficient quantity is in storage it is taken to Sandia National Laboratories-Albuquerque, where the film is incinerated and the silver is recovered. Other film is stored in the basement of TA-3-43. The film is chopped into small pieces in a film disintegrator. When sufficient film volume is collected, the film is sent to Phoenix, Arizona for silver recovery.

WASTE INFORMATION

The waste stored/treated in these units is photographic film which contains silver.

RELEASE INFORMATION

No hazardous releases are known from these units.

DRAFT

3-041 SIGMA COMPLEX TANK

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Near the Sigma Complex, a wash down station, TA-3-1264, is designed to collect wastewater from radioactive decontamination operations. Liquids discharge to a holding tank located in a below grade concrete-lined vault. The holding tank connects into the acid line to TA-50. So far as known, the station has never been used.

WASTE INFORMATION

The tank would receive mixed wastes if it was used.

RELEASE INFORMATION

There have been no releases of any kind from the tank.

DRAFT

3-042 DECOMMISSIONED SUMP

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1960's

UNIT INFORMATION

A sump/containment area was located below tanks TA-3-63 and TA-3-64. The tanks were removed in 1967. During several field surveys between 1986 and 1988, oil was noted to remain in the sump. In the fall of 1988, the sump was removed.

WASTE INFORMATION

The waste contained oil, however, sampling was not done to determine if hazardous constituents were present.

RELEASE INFORMATION

There were no known releases from the sump. The fate of this liquid removed during decommissioning is not known.

DRAFT

3-043 DECOMMISSIONED TANK

SUMMARY

LOCATION: TA-3
TYPE OF UNIT(s): TANK
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1953 - 1960's

UNIT INFORMATION

Tank TA-3-71B was used to neutralize mixed wastes from the physics building, TA-3-40. The tank was reported to have been removed in 1983.

WASTE INFORMATION

The waste is described as mixed.

RELEASE INFORMATION

Information on past releases and decommissioning is lacking.

DRAFT

TA-3 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
3-001(a)	3-3
3-001(b)	3-3
3-001(c)	3-3
3-001(d)	3-5
3-001(e)	3-2
3-001(f)	3-2
3-001(g)	3-5
3-001(h)	3-5
3-001(i)	3-3
3-001(j)	3-5
3-001(k)	3-4
3-001(l)	3-5
3-001(m)	3-3
3-001(n)	3-3
3-001(o)	3-2
3-001(p)	3-4
3-001(q)	3-4
3-001(r)	3-5
3-001(s)	3-5
3-001(t)	3-5
3-001(u)	3-2
3-002(a)	3-5
3-002(b)	Not shown, location unknown
3-002(c)	3-4
3-003(a)	3-3
3-003(b)	3-3
3-004	3-3
3-005(a)	Not shown, location unknown

DRAFT

TA-3 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
3-005(b)	Not shown, location unknown
3-005(c)	Not shown, location unknown
3-006(a)	3-13
3-006(b)	3-12
3-007	3-5
3-008(a)	3-11
3-008(b)	3-13
3-009(a)	3-4
3-009(b)	3-2
3-009(c)	3-5
3-009(d)	3-3
3-009(e)	3-3
3-009(f)	Not shown, location unknown
3-009(g)	3-1
3-009(h)	3-5, 3-2
3-010	3-2
3-011	Not shown, location unknown
3-012(a)	3-5
3-012(b)	3-4
3-013	3-2
3-014(a)	3-5
3-014(b)	3-5
3-014(c)	3-5
3-014(d)	3-5
3-014(e)	3-5
3-014(f)	3-5
3-014(g)	3-5
3-014(h)	3-5
3-014(i)	3-9
3-014(j)	3-9

DRAFT

TA-3 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
3-014(k)	3-9
3-014(l)	3-9
3-014(m)	3-9
3-014(n)	Not shown, location unknown
3-014(o)	3-9
3-014(q)	3-4
3-014(r)	3-8
3-014(s)	Not shown, location unknown
3-014(t)	Not shown, location unknonw
3-015	3-5
3-016(a)	3-9
3-016(b)	3-9
3-016(c)	Not shown, location unknown
3-016(d)	Not shown, location unknown
3-017(a)	3-8
3-017(b)	3-8
3-017(c)	3-8
3-018	Not shown, location unknown
3-019	3-10
3-020	3-2
3-021	3-5
3-022	3-7
3-023	3-6
3-024	3-5
3-025(a)	3-5
3-025(b)	3-3
3-026	3-5
3-027(a)	3-5
3-027(b)	3-2
3-028	3-8

DRAFT

TA-3 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
3-029(a)	3-13
3-029(b)	3-13
3-030(a)	3-13
3-030(b)	3-5
3-031	3-3
3-032	3-2
3-033	3-3
3-034	3-3
3-035(a)	3-2
3-035(b)	3-2
3-035(c)	3-5
3-035(d)	3-7
3-036(a)	3-4
3-036(b)	3-4
3-036(c)	3-5
3-037	3-5
3-038	Not shown, location unknown
3-039	3-2
3-040	3-2
3-041	3-5
3-042	3-10
3-043	Not shown, location unknown

DRAFT

NOTE: Some structure locations contain more than one SWMU

301215 02 01 B85

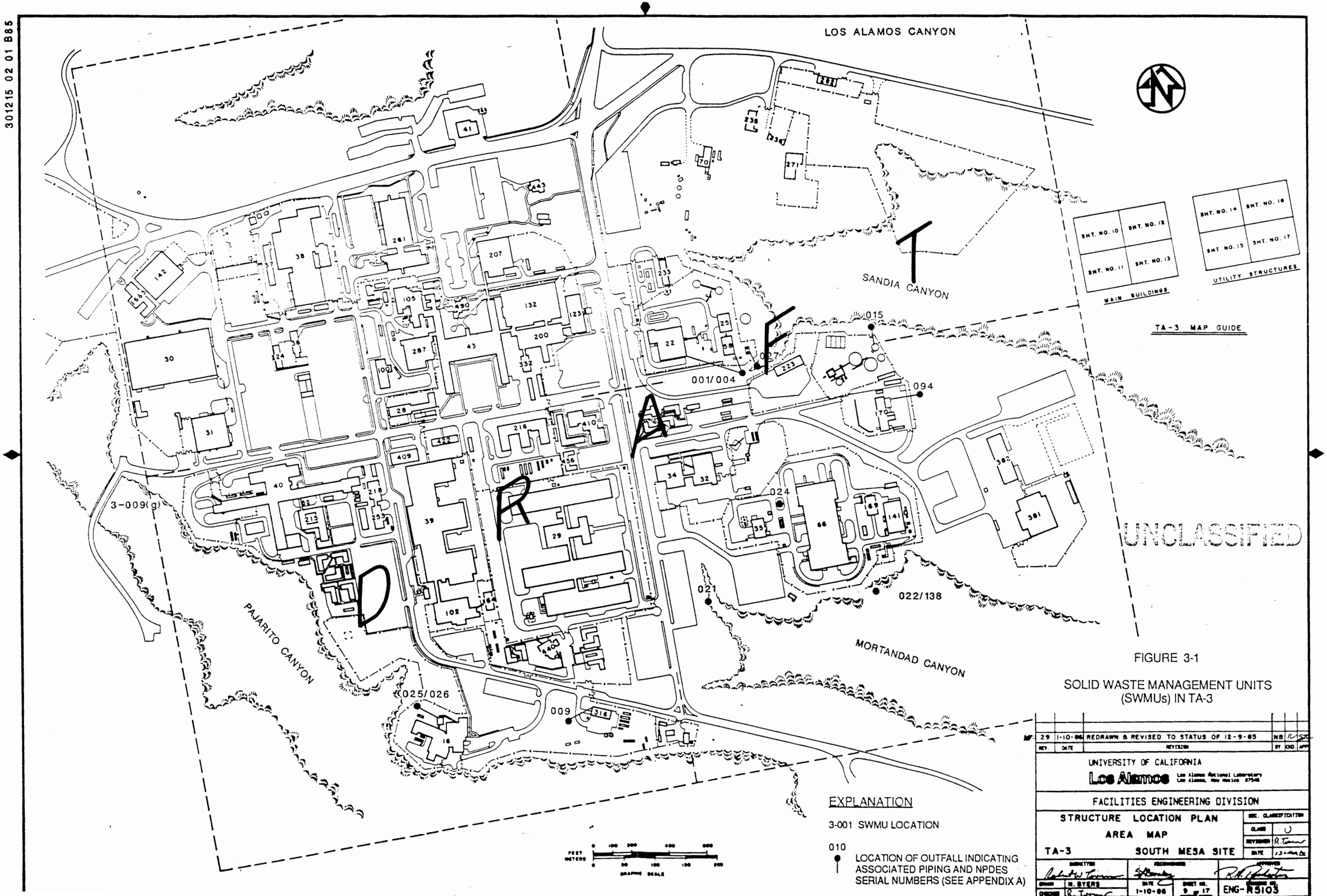
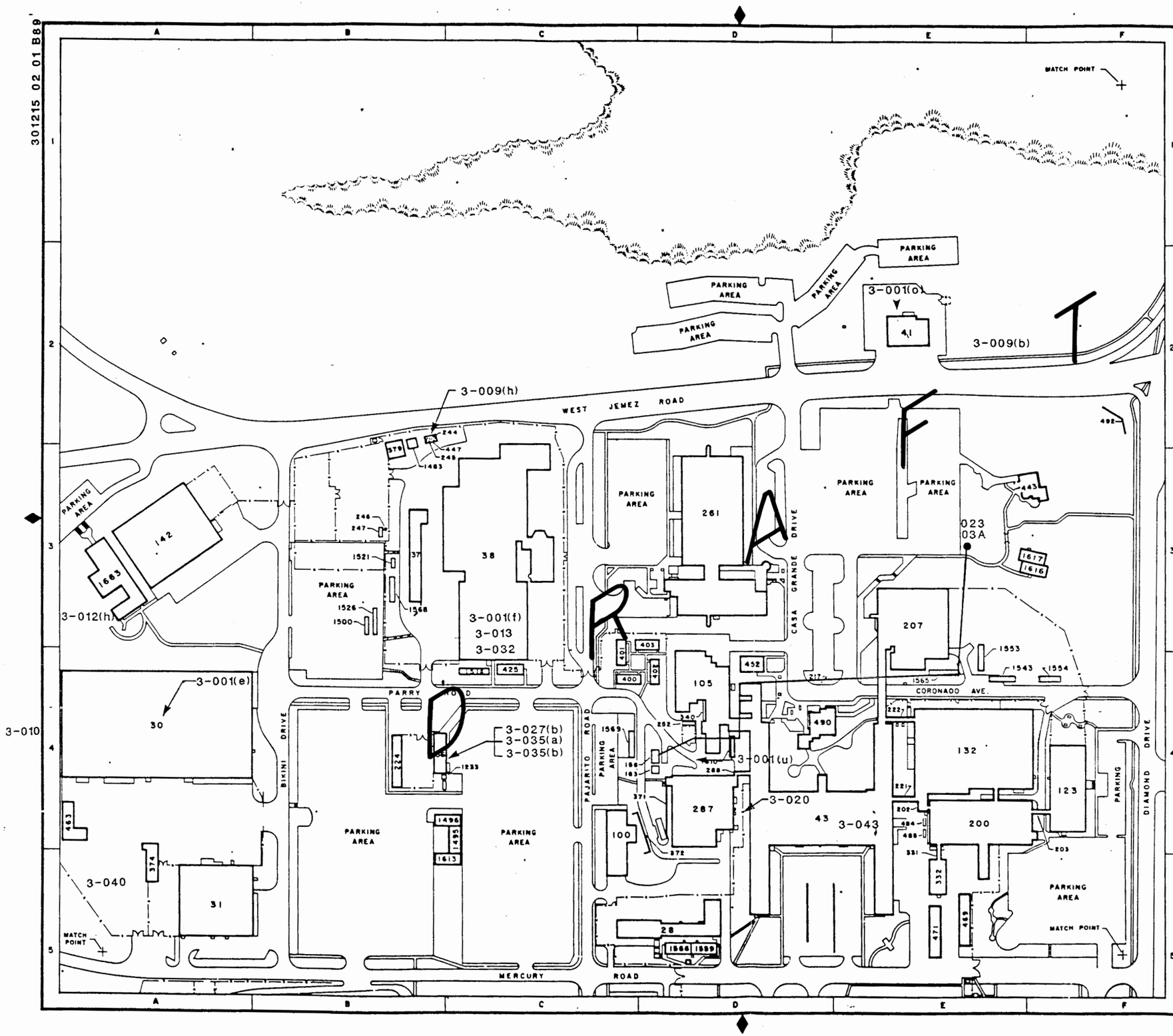


FIGURE 3-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

301215 02 01 B89



FEET 0 50 100 200 300
METERS 0 25 50 75 100
GRAPHIC SCALE

EXPLANATION

3-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

SHT. NO. 10	SHT. NO. 12
SHT. NO. 11	SHT. NO. 13

MAIN BUILDINGS

SHT. NO. 14	SHT. NO. 16
SHT. NO. 15	SHT. NO. 17

UTILITY STRUCTURES

TA-3 MAP GUIDE

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FIGURE 3-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV	DATE	REVISION	BY	CKD	APPR
29	12-20-85	REDRAWN & REVISED TO STATUS OF 11-18-85	NB		

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FACILITIES ENGINEERING DIVISION

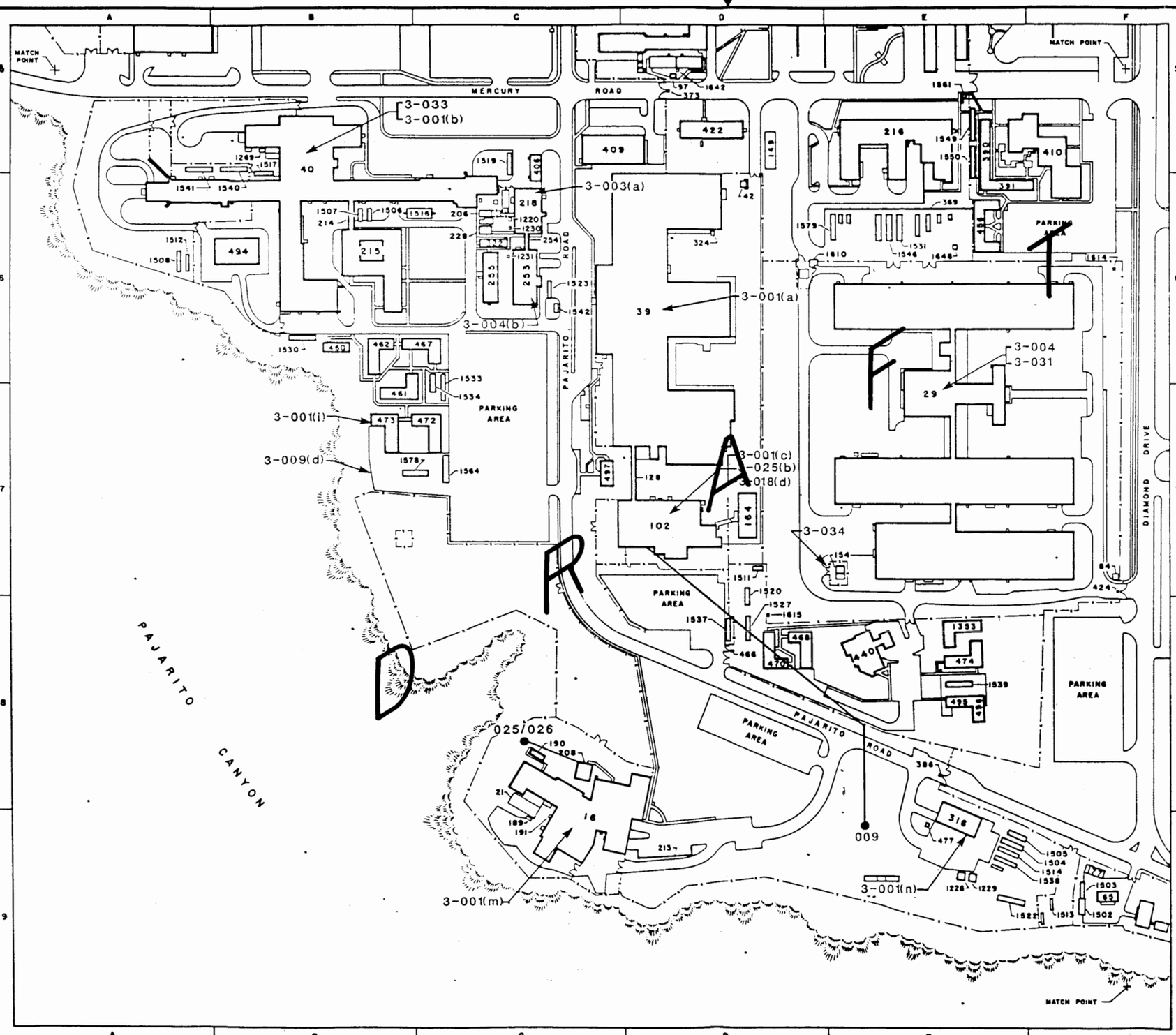
STRUCTURE LOCATION PLAN
MAIN BUILDINGS
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION: CLASS U; REVIEWER R. Turner; DATE 12/20/85

SUBMITTED: R. W. Turner
RECOMMENDED: S. Loomis
APPROVED: R. H. Robertson

DRAWN: N. BYERS
CHECKED: R. Turner
DATE 12-20-85
SHEET NO. 10 of 17
DRAWING NO. ENG-R5103

301215 02 01 B87



EXPLANATION

3-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

SHT. NO. 10	SHT. NO. 12
SHT. NO. 11	SHT. NO. 13

MAIN BUILDINGS

SHT. NO. 14	SHT. NO. 16
SHT. NO. 15	SHT. NO. 17

UTILITY STRUCTURES

TA-3 MAP GUIDE

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FIGURE 3-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV.	DATE	REVISION	BY	CHKD	APP
29	12-27-85	REDRAWN & REVISED TO STATUS OF 11-25-85	NB		

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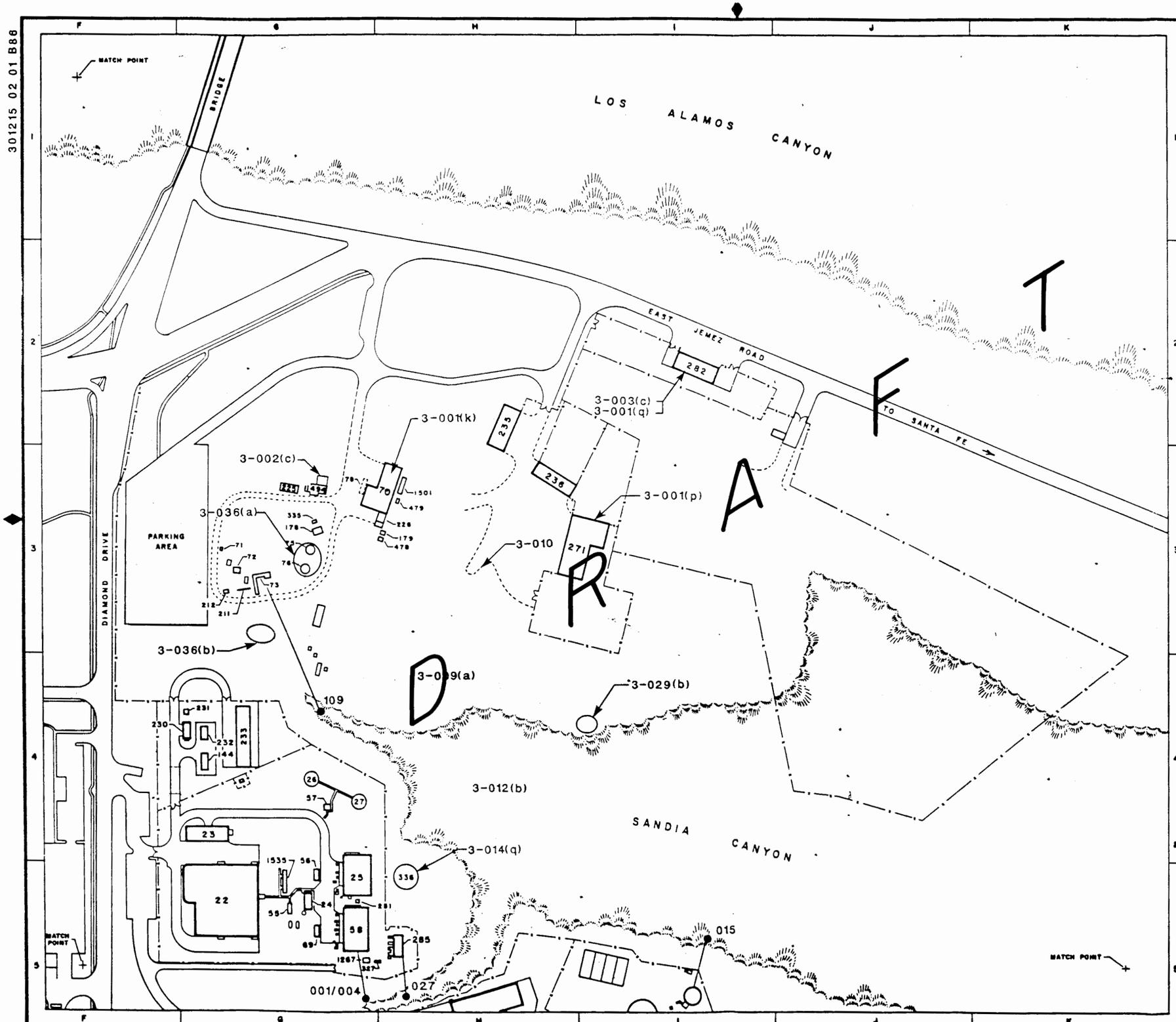
STRUCTURE LOCATION PLAN
MAIN BUILDINGS
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION: U
REVIEWER
DATE 17 mar 86

DRAWN: N. BYERS
DATE 12-27-85
SHEET NO. 11 of 17
DRAWING NO. ENG-R5103

301215 02 01 B86



FEET 0 50 100 200 300
METERS 0 25 50 75 100
GRAPHIC SCALE

EXPLANATION

3-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

SHT. NO. 10	SHT. NO. 12
SHT. NO. 11	SHT. NO. 13

MAIN BUILDINGS

SHT. NO. 14	SHT. NO. 16
SHT. NO. 15	SHT. NO. 17

UTILITY STRUCTURES

TA-3 MAP GUIDE

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FIGURE 3-4

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV.	DATE	REVISION	BY	CKD	APP
29	1-3-86	REDRAWN & REVISED TO STATUS OF 12-2-85	NB		

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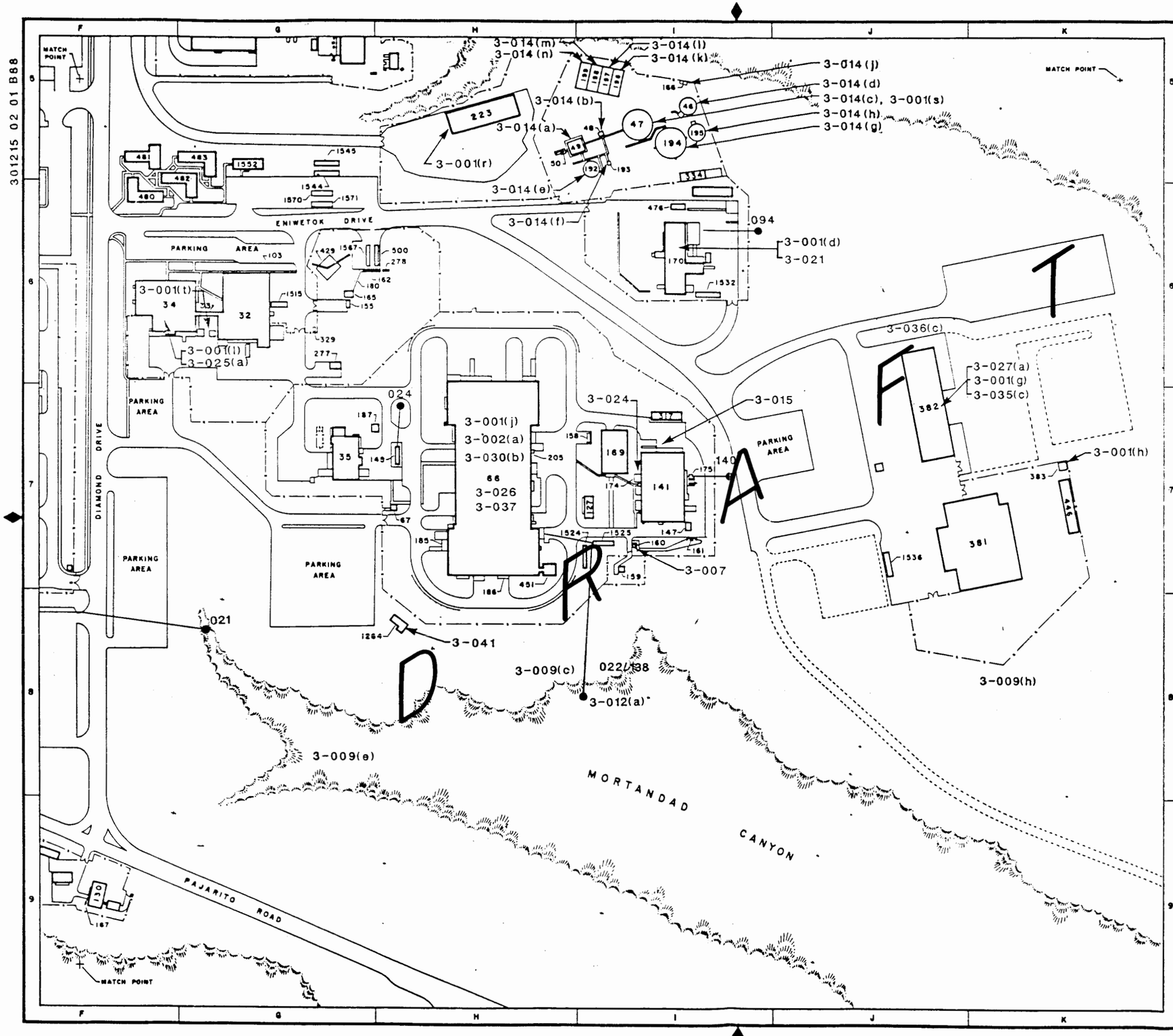
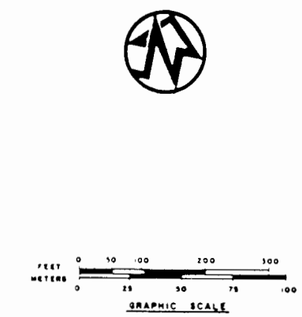
STRUCTURE LOCATION PLAN
MAIN BUILDINGS
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION: CLASS U
REVIEWER: R. Tomas
DATE: 17 Feb 86

SUBMITTED: Robert Tomas
RECOMMENDED: S. Cooper
APPROVED: R. Rodriguez

DRAWN: N BYERS
DESIGNED: R. Tomas
DATE: 1-3-86
SHEET NO. 12 of 17
DRAWING NO. ENG-R5103

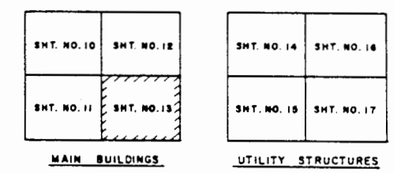




EXPLANATION

3-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)



TA-3 MAP GUIDE

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FIGURE 3-5

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV.	DATE	REVISION	BY	CKD	APP
29	1-10-86	REDRAWN & REVISED TO STATUS OF 12-9-85	NB	K	

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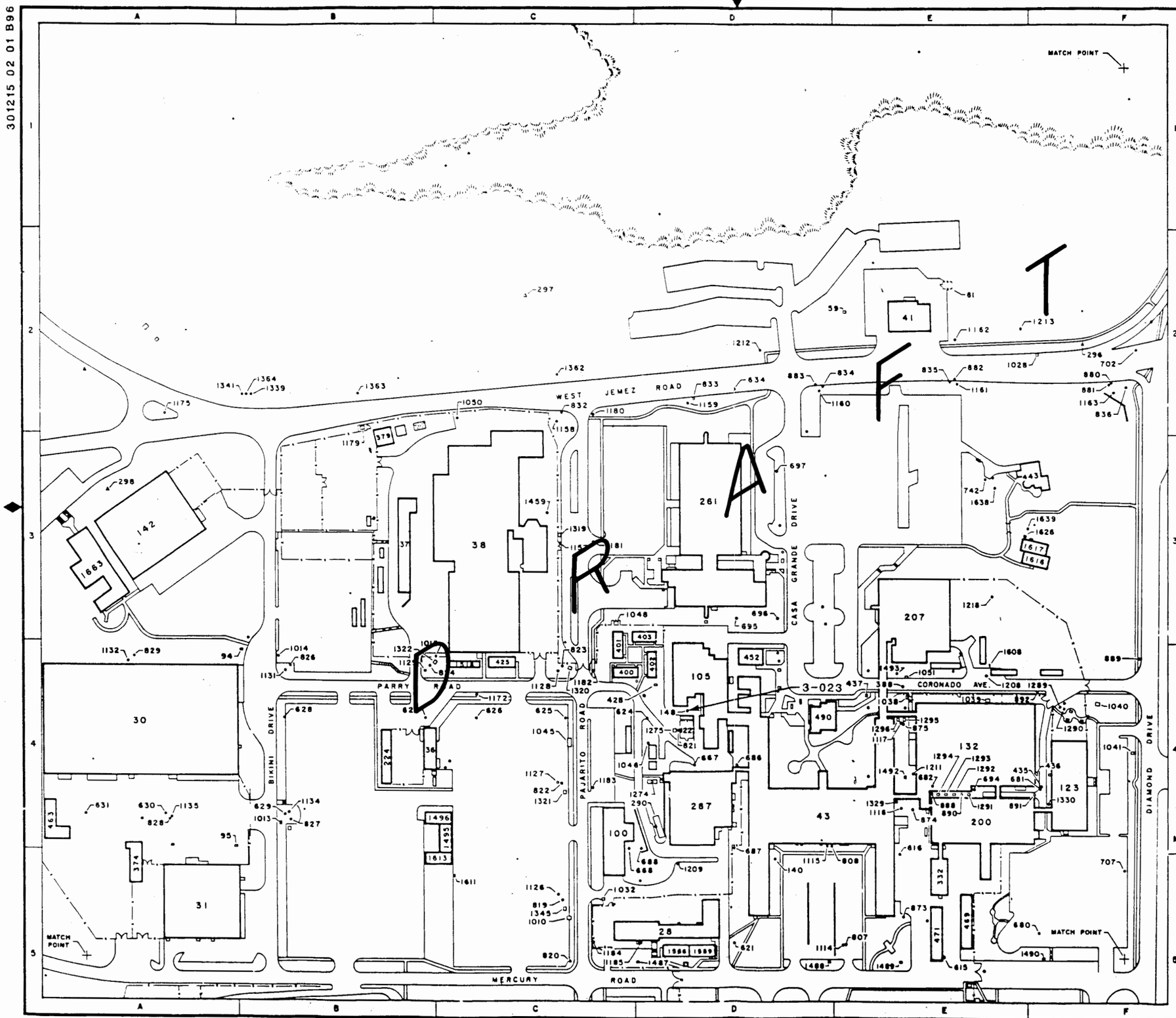
FACILITIES ENGINEERING DIVISION

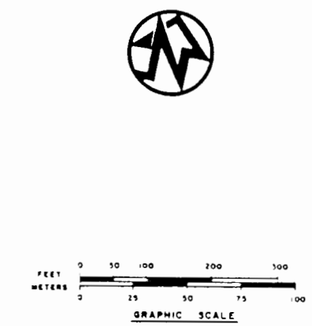
STRUCTURE LOCATION PLAN
MAIN BUILDINGS
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION
CLASS
REVIEWER
DATE

SUBMITTED: Robert W. Fromm
RECOMMENDED: S.K. Conley
APPROVED:
DRAWN: N. BYERS
CHECKED: R. Fromm
DATE: 1-10-86
SHEET NO. 13 of 17
DRAWING NO. ENG-R5103

301215 02 01 B96





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SHT. NO. 10	SHT. NO. 12
SHT. NO. 11	SHT. NO. 13

MAIN BUILDINGS

SHT. NO. 14	SHT. NO. 16
SHT. NO. 15	SHT. NO. 17

UTILITY STRUCTURES

TA-3 MAP GUIDE

EXPLANATION

3-001 SWMU LOCATION

FIGURE 3-6

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV	DATE	REVISION	BY	CKD	APP
19	12-20-85	REDRAWN & REVISED TO STATUS OF 11-18-85	NB		

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UTILITY STRUCTURES
TA-3 SOUTH MESA SITE

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DATE

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RECOMMENDED
APPROVED

DRAWN N. BYERS
CHECKED R. Tom
DATE 12-20-85
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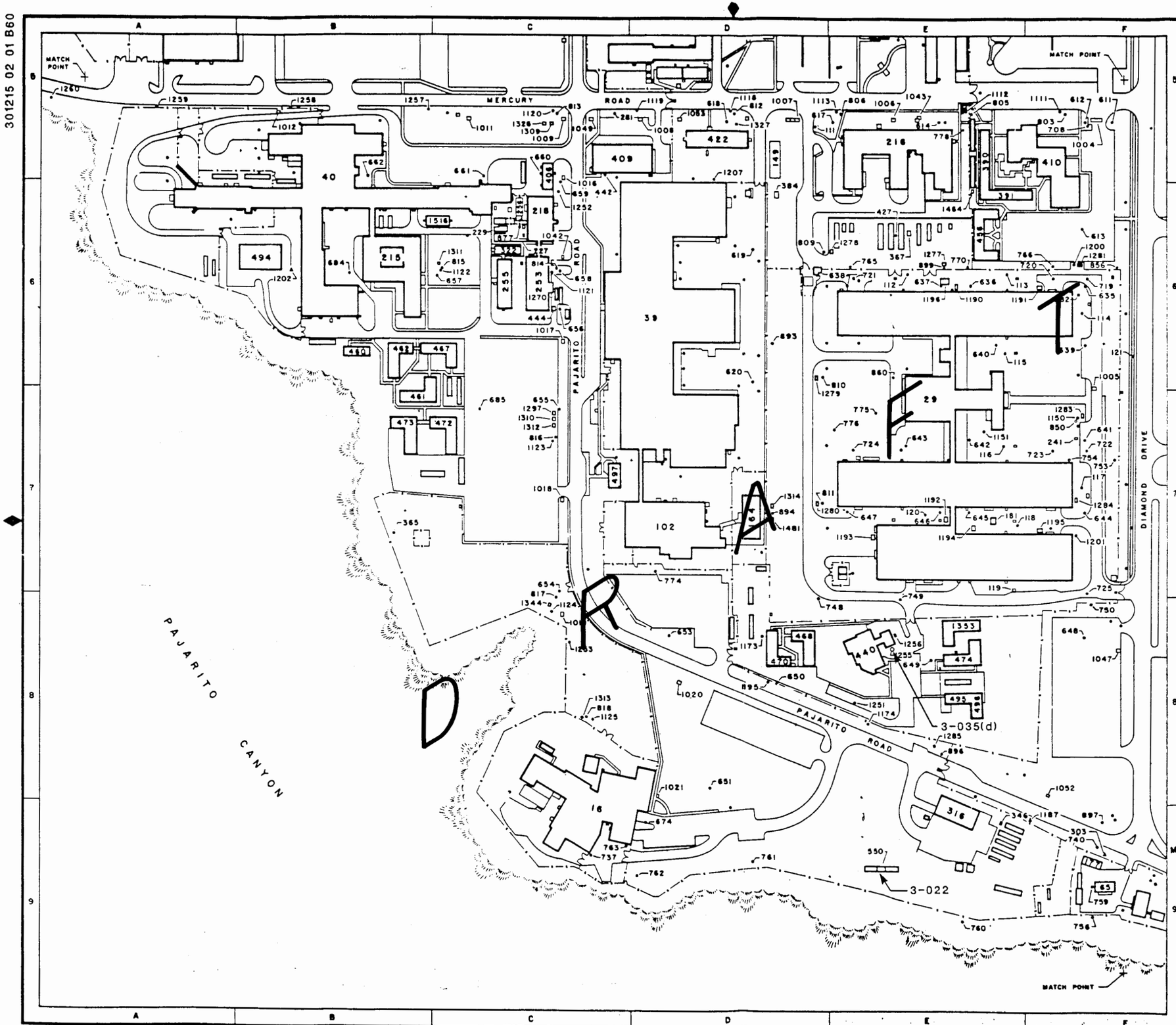
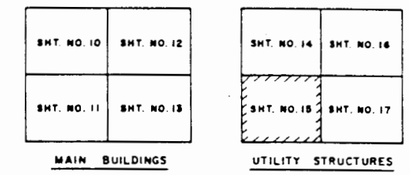
DRAWING NO. ENG-R5103

301215 02 01 B60



EXPLANATION

3-001 SWMU LOCATION



TA-3 MAP GUIDE

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FIGURE 3-7

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV.	DATE	REVISION	BY	CKD	APP
19	12-27-85	REDRAWN & REVISED TO STATUS OF 11-25-85	MB		

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TA-3 SOUTH MESA SITE

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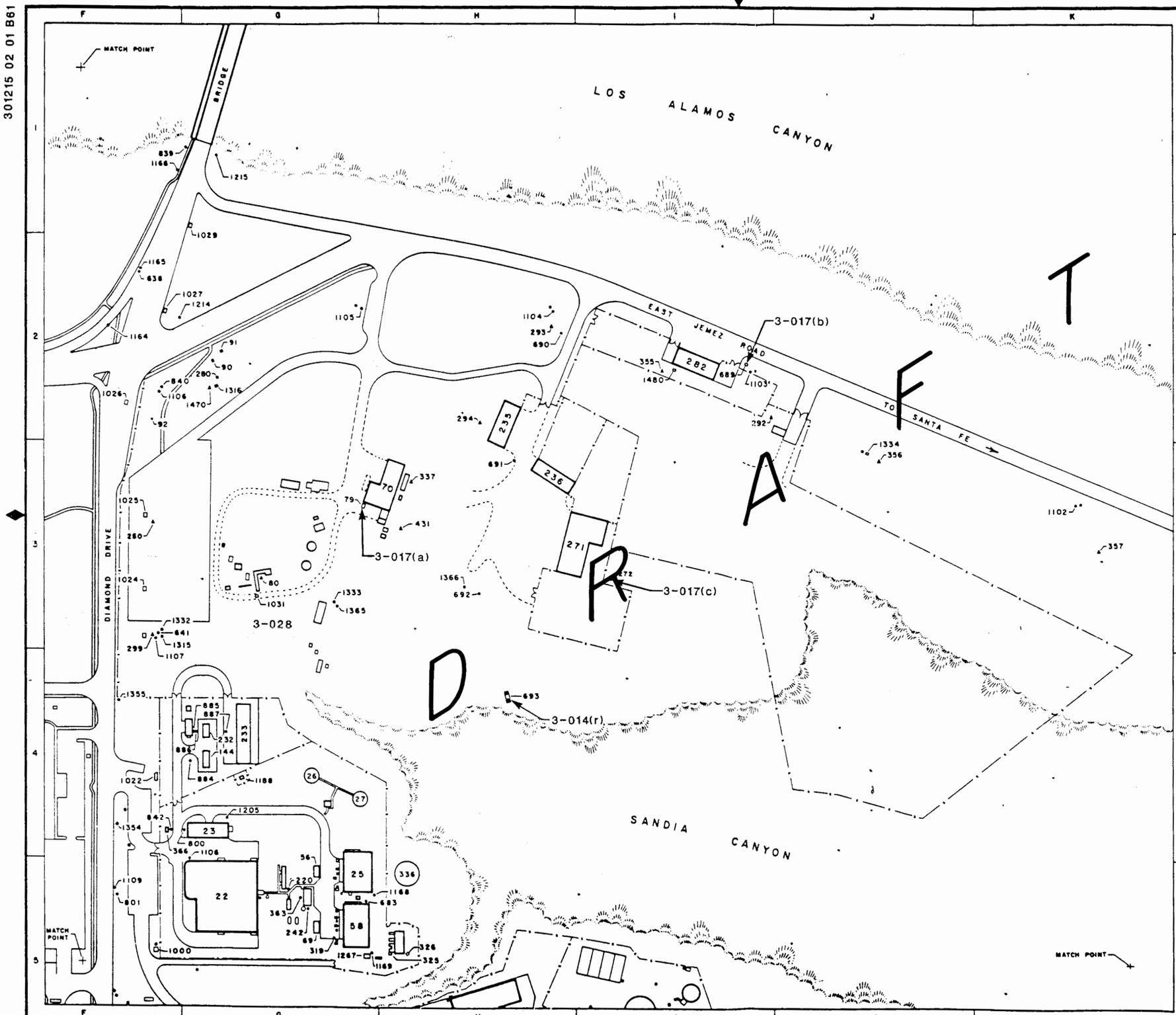
DESIGNED

RECOMMENDED
DATE 12-27-85
SHEET NO. T3 of 17

APPROVED
DRAWING NO. ENG-R5103

301215 02 01 B61



FEET 0 50 100 200 300
METERS 0 25 50 75 100
GRAPHIC SCALE

EXPLANATION

3-001 SWMU LOCATION

SHT. NO. 10	SHT. NO. 12
SHT. NO. 11	SHT. NO. 13

MAIN BUILDINGS

SHT. NO. 14	SHT. NO. 16
SHT. NO. 15	SHT. NO. 17

UTILITY STRUCTURES

TA-3 MAP GUIDE

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FIGURE 3-8

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV	DATE	REVISION	BY	CKD	APP
MF 19	1-3-86	REDRAWN & REVISED TO STATUS OF 12-2-85	NB		

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UTILITY STRUCTURES
TA-3 SOUTH MESA SITE

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CLASS
REVIEWER
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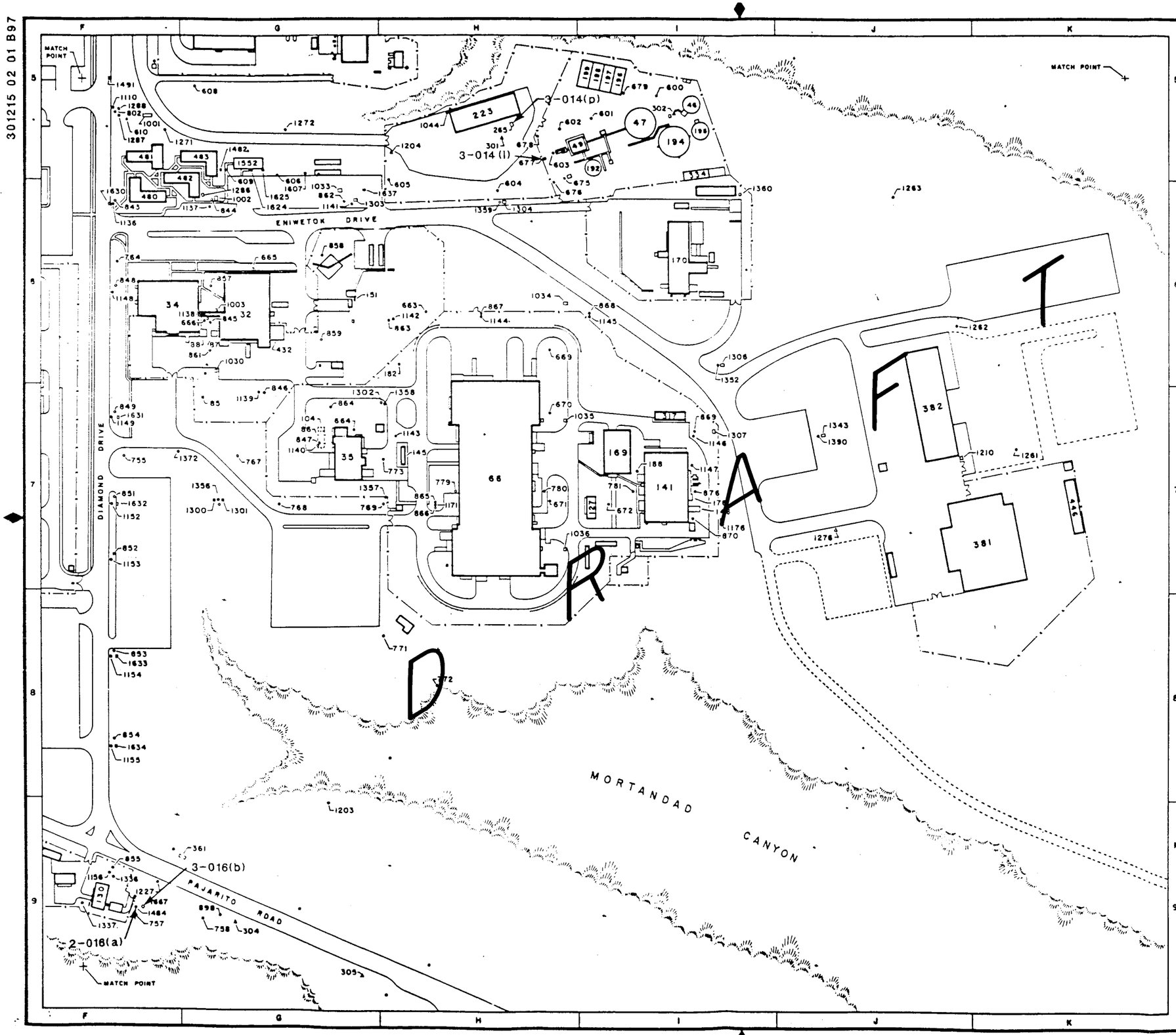
CHECKED
DATE 1-3-86
SHEET NO 16 of 17
DRAWING NO ENG-R5103

301215 02 01 B97



FEET 0 50 100 200 300
METERS 0 25 50 75 100
GRAPHIC SCALE

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SHT. NO. 10	SHT. NO. 12
SHT. NO. 11	SHT. NO. 13

MAIN BUILDINGS

SHT. NO. 14	SHT. NO. 16
SHT. NO. 15	SHT. NO. 17

UTILITY STRUCTURES

TA-3 MAP GUIDE

EXPLANATION

3-001 SWMU LOCATION

FIGURE 3-9

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

REV	DATE	REVISION	BY	CKD	APPD
19	1-10-86	REDRAWN & REVISED TO STATUS OF 12-9-85	NB		

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FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
UTILITY STRUCTURES
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION
CLASS
REVIEWER
DATE

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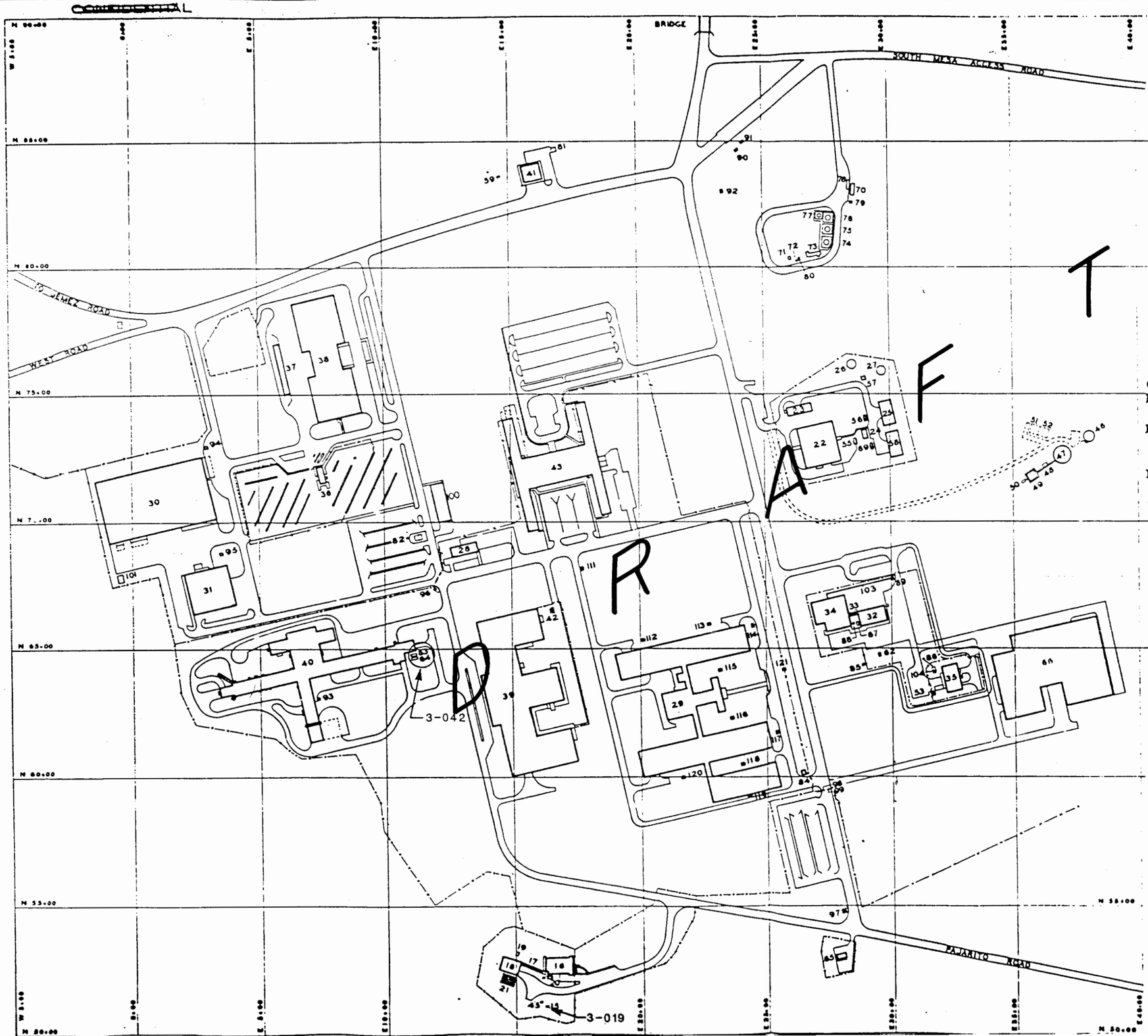
RECOMMENDED
APPROVED

DRAWN N. BYERS
CHECKED
DATE 1-10-86
SHEET NO. 17 of 17
DRAWING NO. ENG-R5103

301215 01 B98

~~CONFIDENTIAL~~



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OFFICIAL USE ONLY

Classification changed to
by authority of the U. S. Atomic Energy Commission,

Per P. F. BELCHER MAY 31 1957
(Person authorizing change in classification) (Date)

By JUN 13 1957
(Signature of person making the change, and date)

~~This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U. S. C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.~~

EXPLANATION

3-001 SWMU LOCATION ~~CONFIDENTIAL~~

FIGURE 3-10

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

NO.	DATE	REVISIONS	BY	CHKD
7	8-15-86	REDRAWN DRAWING NO. ENG-A 88 CHANGED TO ENG-A 88 AND ENG-A 89	NOB	JASPER

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UNIVERSITY OF CALIFORNIA
ENGINEERING DEPARTMENT LOS ALAMOS, N. M.

STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

AUTHORIZED FOR

DRAWN M. BYERS

301215 02 01 B13

DRAFT

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-1095	SM-1095				
TA-3-1096	SM-1096				
TA-3-1097	SM-1097				
TA-3-1098	SM-1098				
TA-3-1099	SM-1099				
TA-3-1100	SM-1100				
TA-3-1101	SM-1101		CANCELLED		
TA-3-1102	SM-1102	MANHOLE, TELEPHONE		16	K-3
TA-3-1103	SM-1103	MANHOLE, TELEPHONE		16	I-2
TA-3-1104	SM-1104	MANHOLE, TELEPHONE		16	H-2
TA-3-1105	SM-1105	MANHOLE, TELEPHONE		16	G-2
TA-3-1106	SM-1106	MANHOLE, TELEPHONE		16	F-2
TA-3-1107	SM-1107	MANHOLE, TELEPHONE		16	F-3
TA-3-1108	SM-1108	MANHOLE, TELEPHONE		16	G-4
TA-3-1109	SM-1109	MANHOLE, TELEPHONE		16	F-5
TA-3-1110	SM-1110	MANHOLE, TELEPHONE		17	F-5
TA-3-1111	SM-1111	MANHOLE, TELEPHONE		15	F-5
TA-3-1112	SM-1112	MANHOLE, TELEPHONE		15	E-5
TA-3-1113	SM-1113	MANHOLE, TELEPHONE		15	E-5
TA-3-1114	SM-1114	MANHOLE, TELEPHONE		14	E-5
TA-3-1115	SM-1115	MANHOLE, TELEPHONE		14	E-5
TA-3-1116	SM-1116	MANHOLE, TELEPHONE		14	E-4
TA-3-1117	SM-1117	MANHOLE, TELEPHONE		14	E-4
TA-3-1118	SM-1118	MANHOLE, TELEPHONE		15	D-5
TA-3-1119	SM-1119	MANHOLE, TELEPHONE		15	D-5
TA-3-1120	SM-1120	MANHOLE, TELEPHONE		15	C-5
TP-3-1121	SM-1121	MANHOLE, TELEPHONE		15	C-6
TA-3-1122	SM-1122	MANHOLE, TELEPHONE		15	C-6
TA-3-1123	SM-1123	MANHOLE, TELEPHONE		15	C-7
TA-3-1124	SM-1124	MANHOLE, TELEPHONE		15	C-8
TA-3-1125	SM-1125	MANHOLE, TELEPHONE		15	C-8
TA-3-1126	SM-1126	MANHOLE, TELEPHONE		14	C-5
TA-3-1127	SM-1127	MANHOLE, TELEPHONE		14	C-4
TA-3-1128	SM-1128	MANHOLE, TELEPHONE		14	C-4
TA-3-1129	SM-1129	MANHOLE, TELEPHONE		14	B-4
TA-3-1130	SM-1130		REMOVED 1982		
TA-3-1131	SM-1131	MANHOLE, TELEPHONE		14	B-4
TA-3-1132	SM-1132	MANHOLE, TELEPHONE		14	A-4
TA-3-1133	SM-1133	MANHOLE, TELEPHONE	W. OF SM-1132		
TA-3-1134	SM-1134	MANHOLE, TELEPHONE		14	B-4
TA-3-1135	SM-1135	MANHOLE, TELEPHONE		14	A-4
TA-3-1136	SM-1136	MANHOLE, TELEPHONE		17	F-6
TA-3-1137	SM-1137	MANHOLE, TELEPHONE		17	G-6
TA-3-1138	SM-1138	MANHOLE, TELEPHONE		17	G-6
TA-3-1139	SM-1139	MANHOLE, TELEPHONE		17	G-7
TA-3-1140	SM-1140	MANHOLE, TELEPHONE		17	G-7
TA-3-1141	SM-1141	MANHOLE, TELEPHONE		17	G-6
TA-3-1142	SM-1142	MANHOLE, TELEPHONE		17	H-6
TA-3-1143	SM-1143	MANHOLE, TELEPHONE		17	H-7
TA-3-1144	SM-1144	MANHOLE, TELEPHONE		17	H-6
TA-3-1145	SM-1145	MANHOLE, TELEPHONE		17	I-6
TA-3-1146	SM-1146	MANHOLE, TELEPHONE		17	I-7
TA-3-1147	SM-1147	MANHOLE, TELEPHONE		17	I-7
TA-9-1148	SM-1148	MANHOLE, TELEPHONE		17	F-6
TA-3-1149	SM-1149	MANHOLE, TELEPHONE		17	F-7
TA-3-1150	SM-1150	MANHOLE, TELEPHONE		15	F-7
TA-3-1151	SM-1151	MANHOLE, TELEPHONE		15	E-7
TA-3-1152	SM-1152	MANHOLE, TELEPHONE		17	F-7
TA-3-1153	SM-1153	MANHOLE, TELEPHONE		17	F-7
TA-3-1154	SM-1154	MANHOLE, TELEPHONE		17	F-8
TA-3-1155	SM-1155	MANHOLE, TELEPHONE		17	F-8
TA-3-1156	SM-1156	MANHOLE, TELEPHONE		17	F-9
TA-3-1157	SM-1157	MANHOLE, TELEPHONE		14	C-3
TA-3-1158	SM-1158	MANHOLE, TELEPHONE		14	C-2
TA-3-1159	SM-1159	MANHOLE, TELEPHONE		14	D-2
TA-3-1160	SM-1160	MANHOLE, TELEPHONE		14	D-2
TA-3-1161	SM-1161	MANHOLE, TELEPHONE		14	E-2
TA-3-1162	SM-1162	MANHOLE, TELEPHONE		14	E-2
TA-3-1163	SM-1163	MANHOLE, TELEPHONE		14	F-2
TA-3-1164	SM-1164	MANHOLE, TELEPHONE		16	F-2
TA-3-1165	SM-1165	MANHOLE, TELEPHONE		16	F-2
TA-3-1166	SM-1166	MANHOLE, TELEPHONE		16	F-1
TA-3-1167	SM-1167	NTS RACK ASSEMBLY BLDG	REMOVED 1981		
TA-3-1168	SM-1168	MANHOLE, SANITARY		16	G-5
TA-3-1169	SM-1169	MANHOLE, DRAINAGE		16	G-5
TA-3-1170	SM-1170	MANIFOLD	RENUMBERED TA-59-9		
TA-3-1171	SM-1171	MANHOLE, TELEPHONE		17	H-7
TA-3-1172	SM-1172	MANHOLE, ELECTRICAL		14	C-4

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO.	MAP KEY
TA-3-1173	SM-1173	MANHOLE, STORM DRAINAGE		15	D-8
TA-3-1174	SM-1174	MANHOLE, STORM DRAIN		15	E-8
TA-3-1175	SM-1175	CATCH BASIN		14	A-2
TA-3-1176	SM-1176	ELECTRICAL DISCONNECT PE		17	I-7
TA-3-1177	SM-1177		REMOVED 1981		
TA-3-1178	SM-1178				
TA-3-1179	SM-1179	TRANSFORMER STATION	PAD MOUNTED	14	B-2
TA-3-1180	SM-1180	MANHOLE, TELEPHONE		14	C-2
TA-3-1181	SM-1181	MANHOLE, TELEPHONE		14	C-3
TA-3-1182	SM-1182	MANHOLE, TELEPHONE		14	C-4
TA-3-1183	SM-1183	MANHOLE, TELEPHONE		14	C-4
TA-3-1184	SM-1184	MANHOLE, TELEPHONE		14	C-5
TA-3-1185	SM-1185	MANHOLE, TELEPHONE		14	C-5
TA-3-1186	SM-1186		CANCELLED		
TA-3-1187	SM-1187	TRANSFORMER STATION	POLE MOUNTED	15	F-9
TA-3-1188	SM-1188	CAPACITOR STATION		16	G-4
TA-3-1189	SM-1189		CANCELLED		
TA-3-1190	SM-1190	SUBSTATION		15	E-6
TA-3-1191	SM-1191	SUBSTATION		15	F-6
TA-3-1192	SM-1192	SUBSTATION		15	E-7
TA-3-1193	SM-1193	SUBSTATION		15	E-7
TA-3-1194	SM-1194	SUBSTATION		15	E-7
TA-3-1195	SM-1195	SUBSTATION		15	F-7
TA-3-1196	SM-1196	SWITCHING STATION, ELEC		15	E-6
TA-3-1197	SM-1197				
TA-3-1198	SM-1198				
TA-3-1199	SM-1199				
TA-3-1200	SM-1200	MANHOLE, ELECTRICAL		15	F-6
TA-3-1201	SM-1201	MANHOLE, ELECTRICAL		15	F-7
TA-3-1202	SM-1202	TRANSFORMER STATION	PAD MOUNTED	15	B-6
TA-3-1203	SM-1203	MANHOLE, ELECTRICAL		17	G-9
TA-3-1204	SM-1204	TRANSFORMER STATION	POLE MOUNTED	17	H-5
TA-3-1205	SM-1205	MANHOLE, ELECTRICAL		16	G-4
TA-3-1206	SM-1206		CANCELLED		
TA-3-1207	SM-1207	MANHOLE, ELECTRICAL		15	D-6
TA-3-1208	SM-1208	MANHOLE, ELECTRICAL		14	E-4
TA-3-1209	SM-1209	SWITCHBOARD		14	D-5
TA-3-1210	SM-1210	TRANSFORMER STATION	PAD MOUNTED	17	J-7
TA-3-1211	SM-1211	MANHOLE, TELEPHONE		14	E-4
TA-3-1212	SM-1212	MANHOLE, TELEPHONE		14	D-2
TA-3-1213	SM-1213	MANHOLE, TELEPHONE		14	E-2
TA-3-1214	SM-1214	MANHOLE, TELEPHONE		16	F-2
TA-3-1215	SM-1215	MANHOLE, TELEPHONE		16	G-1
TA-3-1216	SM-1216		CANCELLED		
TA-3-1217	SM-1217		CANCELLED		
TA-3-1218	SM-1218	MANHOLE, WATER		14	E-3
TA-3-1219	SM-1219		CANCELLED		
TA-3-1220	SM-1220	CONCRETE PAD		11	C-6
TA-3-1221	SM-1221		CANCELLED		
TA-3-1222	SM-1222		CANCELLED		
TA-3-1223	SM-1223		CANCELLED		
TA-3-1224	SM-1224		CANCELLED		
TA-3-1225	SM-1225		REMOVED 1985		
TA-3-1226	SM-1226				
TA-3-1227	SM-1227	MANHOLE, TELEPHONE		17	F-9
TA-3-1228	SM-1228	STORAGE SHED		11	E-9
TA-3-1229	SM-1229	STORAGE SHED		11	E-9
TA-3-1230	SM-1230	CONCRETE PAD		11	C-6
TA-3-1231	SM-1231	CONCRETE PIERS		11	C-6
TA-3-1232	SM-1232	STORAGE SHED	NOT SHOWN		
TA-3-1233	SM-1233	STORAGE SHED		[illegible]	B-4
TA-3-1234	SM-1234	STORAGE SHED	NOT SHOWN		
TA-3-1235	SM-1235	STORAGE SHED	NOT SHOWN		
TA-3-1236	SM-1236	UTILITY SHED	NOT SHOWN		
TA-3-1237	SM-1237	UTILITY SHED	NOT SHOWN		
TA-3-1238	SM-1238	UTILITY SHED	NOT SHOWN		
TA-3-1239	SM-1239	STORAGE SHED	NOT SHOWN		
TA-3-1240	SM-1240	STORAGE SHED	NOT SHOWN		
TA-3-1241	SM-1241	STORAGE SHED	NOT SHOWN		
TA-3-1242	SM-1242				
TA-3-1243	SM-1243				
TA-3-1244	SM-1244				
TA-3-1245	SM-1245				
TA-3-1246	SM-1246				
TA-3-1247	SM-1247				
TA-3-1248	SM-1248				
TA-3-1249	SM-1249				
TA-3-1250	SM-1250				

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-1251	SM-1251	MANHOLE, ELECTRICAL		15	E-8
TA-3-1252	SM-1252	MANHOLE, TELEPHONE		15	C-6
TA-3-1253	SM-1253	MANHOLE, TELEPHONE		15	C-8
TA-3-1254	SM-1254	MANHOLE, TELEPHONE	NOT SHOWN		
TA-3-1255	SM-1255	UNDERGROUND STORAGE TANK		15	E-8
TA-3-1256	SM-1256	TRANSFORMER STATION	PAD MOUNTED	15	E-8
TA-3-1257	SM-1257	MANHOLE, ELECTRICAL		15	B-5
TA-3-1258	SM-1258	MANHOLE, ELECTRICAL		15	B-5
TA-3-1259	SM-1259	MANHOLE, ELECTRICAL		15	A-5
TA-3-1260	SM-1260	MANHOLE, ELECTRICAL		15	A-5
TA-3-1261	SM-1261	MANHOLE, SANITARY		17	K-7
TA-3-1262	SM-1262	MANHOLE, SANITARY		17	J-6
TA-3-1263	SM-1263	MANHOLE, SANITARY		17	J-6
TA-3-1264	SM-1264	UNLOADING STATION		13	H-8
TA-3-1265	SM-1265	UNLOADING STATION	NOT SHOWN		
TA-3-1266	SM-1266	DEWAR SHED	NOT SHOWN		
TA-3-1267	SM-1267	TRANSFORMER STATION	PAD MOUNTED	16	H-5
TA-3-1268	SM-1268		REMOVED 1985		
TA-3-1269	SM-1269	STORAGE SHED		11	B-5
TA-3-1270	SM-1270	TRANSFORMER STATION	PAD MOUNTED	15	C-6
TA-3-1271	SM-1271	MANHOLE, ELECTRICAL		17	F-5
TA-3-1272	SM-1272	MANHOLE, ELECTRICAL		17	G-5
TA-3-1273	SM-1273		REMOVED 1983		
TA-3-1274	SM-1274	SWITCHING STATION		14	D-4
TA-3-1275	SM-1275	SWITCHING STATION		14	D-4
TA-3-1276	SM-1276	TRANSFORMER STATION	POLE MOUNTED	17	J-7
TA-3-1277	SM-1277	SWITCHING STATION		15	E-6
TA-3-1278	SM-1278	SWITCHING STATION		15	E-6
TA-3-1279	SM-1279	SWITCHING STATION		15	D-6
TP-3-1280	SM-1280	SWITCHING STATION		15	D-7
TA-3-1281	SM-1281	SWITCHING STATION		15	F-6
TA-3-1282	SM-1282	SWITCHING STATION		15	F-6
TA-3-1283	SM-1283	SWITCHING STATION		15	F-7
TA-3-1284	SM-1284	SWITCHING STATION		15	F-7
TA-3-1285	SM-1285	SWITCHING STATION		15	E-8
TA-3-1286	SM-1286	SWITCHING STATION		17	G-6
TA-3-1287	SM-1287	SWITCHING STATION		17	F-5
TA-3-1288	SM-1288	SWITCHING STATION		17	F-5
TA-3-1289	SM-1289	SWITCHING STATION		14	F-4
TA-3-1290	SM-1290	SWITCHING STATION		14	F-4
TA-3-1291	SM-1291	SWITCHING STATION		14	E-4
TA-3-1292	SM-1292	SWITCHING STATION		14	E-4
TA-3-1293	SM-1293	SWITCHING STATION		14	E-4
TA-3-1294	SM-1294	SWITCHING STATION		14	E-4

UNCLASSIFIED

FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
(6 OF 8)

REV.	DATE	REVISION	BY	CKD	APP.
	1-27-86	REVISED TO STATUS OF 1-17-86	ALC		
0	9-27-83	ADDED NEW INDEX SHEET	ADS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION — CLASS. U — REVIEWER — DATE 12-46-83

SUBMITTED — RECOMMENDED — APPROVED

DRAWN ADS — CHECKED — DATE 9-27-83 — SHEET NO. 6 OF 17 — DRAWING NO. ENG-R5103

02-NOV-83 KE15325 HLAMUS2 LEVEL=1
ALIGN AND SCALE -30 X 21

301215 02 01 B14

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-1295	SM-1295	SWITCHING STATION		14	E - 4
TA-3-1296	SM-1296	SWITCHING STATION		14	E - 4
TA-3-1297	SM-1297	SWITCHING STATION		15	C - 7
TA-3-1298	SM-1298				
TA-3-1299	SM-1299				
TA-3-1300	SM-1300	SWITCHING STATION		17	G - 7
TA-3-1301	SM-1301	SWITCHING STATION		17	G - 7
TA-3-1302	SM-1302	SWITCHING STATION		17	H - 7
TA-3-1303	SM-1303	SWITCHING STATION		17	G - 6
TA-3-1304	SM-1304	SWITCHING STATION		17	H - 6
TA-3-1305	SM-1305				
TA-3-1306	SM-1306	SWITCHING STATION		17	I - 6
TA-3-1307	SM-1307	SWITCHING STATION		17	I - 7
TA-3-1308	SM-1308				
TA-3-1309	SM-1309	SWITCHING STATION		15	C - 5
TA-3-1310	SM-1310	SWITCHING STATION		15	C - 7
TA-3-1311	SM-1311	SWITCHING STATION		15	C - 6
TA-3-1312	SM-1312	SWITCHING STATION		15	C - 7
TA-3-1313	SM-1313	SWITCHING STATION		15	C - 8
TA-3-1314	SM-1314	SWITCHING STATION		15	D - 7
TA-3-1315	SM-1315	SWITCHING STATION		16	F - 3
TA-3-1316	SM-1316	SWITCHING STATION		16	G - 2
TA-3-1317	SM-1317				
TA-3-1318	SM-1318				
TA-3-1319	SM-1319	SWITCHING STATION		14	C - 3
TA-3-1320	SM-1320	SWITCHING STATION		14	C - 4
TA-3-1321	SM-1321	SWITCHING STATION		14	C - 4
TA-3-1322	SM-1322	SWITCHING STATION		14	B - 4
TA-3-1323	SM-1323				
TA-3-1324	SM-1324				
TA-3-1325	SM-1325				
TA-3-1326	SM-1326	SWITCHING STATION		15	C - 5
TA-3-1327	SM-1327	SWITCHING STATION		15	D - 5
TA-3-1328	SM-1328				
TA-3-1329	SM-1329	SWITCHING STATION		14	E - 4
TA-3-1330	SM-1330	SWITCHING STATION		14	F - 4
TA-3-1331	SM-1331				
TA-3-1332	SM-1332	SWITCHING STATION		16	F - 3
TA-3-1333	SM-1333	SWITCHING STATION		16	G - 3
TA-3-1334	SM-1334	SWITCHING STATION		16	J - 3
TA-3-1335	SM-1335	SWITCHING STATION	NW OF SM-30		
TA-3-1336	SM-1336	SWITCHING STATION		17	F - 9
TA-3-1337	SM-1337	SWITCHING STATION		17	F - 9
TA-3-1338	SM-1338				
TA-3-1339	SM-1339	SWITCHING STATION		14	B - 2
TA-3-1340	SM-1340				
TA-3-1341	SM-1341	SWITCHING STATION		14	B - 2
TA-3-1342	SM-1342				
TA-3-1343	SM-1343	SWITCHING STATION		17	J - 7
TA-3-1344	SM-1344	SWITCHING STATION		15	C - 8
TA-3-1345	SM-1345	SWITCHING STATION		14	C - 5
TA-3-1346	SM-1346				
TA-3-1347	SM-1347				
TA-3-1348	SM-1348				
TA-3-1349	SM-1349				
TA-3-1350	SM-1350	MANHOLE, ELECTRICAL	NOT SHOWN		
TA-3-1351	SM-1351	MANHOLE, ELECTRICAL	NOT SHOWN		
TA-3-1352	SM-1352	MANHOLE, ELECTRICAL		17	I - 6
TA-3-1353	SM-1353	TRANSPORTABLE OFF BLDG.		11	E - 8
TA-3-1354	SM-1354	MANHOLE, ELECTRICAL		16	F - 4
TA-3-1355	SM-1355	MANHOLE, ELECTRICAL		16	F - 4
TA-3-1356	SM-1356	MANHOLE, ELECTRICAL		17	G - 7
TA-3-1357	SM-1357	MANHOLE, ELECTRICAL		17	H - 7
TA-3-1358	SM-1358	MANHOLE, ELECTRICAL		17	H - 7
TA-3-1359	SM-1359	MANHOLE, ELECTRICAL		17	H - 6
TA-3-1360	SM-1360	MANHOLE, ELECTRICAL		17	I - 6
TA-3-1361	SM-1361				
TA-3-1362	SM-1362	MANHOLE, ELECTRICAL		14	C - 2
TA-3-1363	SM-1363	MANHOLE, ELECTRICAL		14	B - 2
TA-3-1364	SM-1364	MANHOLE, ELECTRICAL		14	B - 2
TA-3-1365	SM-1365	MANHOLE, ELECTRICAL		16	G - 3
TA-3-1366	SM-1366	MANHOLE, ELECTRICAL		16	H - 3
TA-3-1367	SM-1367				
TA-3-1368	SM-1368				
TA-3-1369	SM-1369				
TA-3-1370	SM-1370				
TA-3-1371	SM-1371				
TA-3-1372	SM-1372	MANHOLE, ELECTRICAL		17	F - 7

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT NO	MAP KEY
TA-3-1373	SM-1373				
TA-3-1374	SM-1374				
TA-3-1375	SM-1375				
TA-3-1376	SM-1376				
TA-3-1377	SM-1377				
TA-3-1378	SM-1378				
TA-3-1379	SM-1379				
TA-3-1380	SM-1380				
TA-3-1381	SM-1381				
TA-3-1382	SM-1382				
TA-3-1383	SM-1383				
TA-3-1384	SM-1384				
TA-3-1385	SM-1385				
TA-3-1386	SM-1386				
TA-3-1387	SM-1387				
TA-3-1388	SM-1388				
TA-3-1389	SM-1389				
TA-3-1390	SM-1390	MANHOLE, ELECTRICAL		17	J - 7
TA-3-1391	SM-1391				
TA-3-1392	SM-1392				
TA-3-1393	SM-1393				
TA-3-1394	SM-1394				
TA-3-1395	SM-1395				
TA-3-1396	SM-1396				
TA-3-1397	SM-1397				
TA-3-1398	SM-1398				
TA-3-1399	SM-1399				
TA-3-1400	SM-1400				
TA-3-1401	SM-1401				
TA-3-1402	SM-1402				
TA-3-1403	SM-1403				
TA-3-1404	SM-1404				
TA-3-1405	SM-1405				
TA-3-1406	SM-1406				
TA-3-1407	SM-1407				
TA-3-1408	SM-1408				
TA-3-1409	SM-1409				
TA-3-1410	SM-1410				
TA-3-1411	SM-1411				
TA-3-1412	SM-1412				
TA-3-1413	SM-1413				
TA-3-1414	SM-1414				
TA-3-1415	SM-1415				
TA-3-1416	SM-1416				
TA-3-1417	SM-1417				
TA-3-1418	SM-1418				
TA-3-1419	SM-1419				
TA-3-1420	SM-1420				
TA-3-1421	SM-1421				
TA-3-1422	SM-1422				
TA-3-1423	SM-1423				
TA-3-1424	SM-1424				
TA-3-1425	SM-1425				
TA-3-1426	SM-1426				
TA-3-1427	SM-1427				
TA-3-1428	SM-1428				
TA-3-1429	SM-1429				
TA-3-1430	SM-1430				
TA-3-1431	SM-1431				
TA-3-1432	SM-1432				
TA-3-1433	SM-1433				
TA-3-1434	SM-1434				
TA-3-1435	SM-1435				
TA-3-1436	SM-1436				
TA-3-1437	SM-1437				
TA-3-1438	SM-1438				
TA-3-1439	SM-1439				
TA-3-1440	SM-1440				
TA-3-1441	SM-1441				
TA-3-1442	SM-1442				
TA-3-1443	SM-1443				
TA-3-1444	SM-1444				
TA-3-1445	SM-1445				
TA-3-1446	SM-1446				
TA-3-1447	SM-1447				
TA-3-1448	SM-1448				
TA-3-1449	SM-1449				
TA-3-1450	SM-1450				

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-1459	SM-1459	MANHOLE, FIRE PROTECTION		14	C - 3
TA-3-1460	SM-1460				
TA-3-1461	SM-1461				
TA-3-1462	SM-1462				
TA-3-1463	SM-1463				
TA-3-1464	SM-1464	SWITCHING STATION		15	E - 6
TA-3-1465	SM-1465				
TA-3-1466	SM-1466				
TA-3-1467	SM-1467				
TA-3-1468	SM-1468				
TA-3-1469	SM-1469				
TA-3-1470	SM-1470	TRANSFORMER STATION		16	G - 2
TA-3-1471	SM-1471				
TA-3-1472	SM-1472				
TA-3-1473	SM-1473	MANHOLE, WATER	NOT SHOWN		
TA-3-1474	SM-1474	MANHOLE, WATER	NOT SHOWN		
TA-3-1475	SM-1475	MANHOLE, WATER	NOT SHOWN		
TA-3-1476	SM-1476	MANHOLE, WATER	NOT SHOWN		
TA-3-1477	SM-1477				
TA-3-1478	SM-1478				
TA-3-1479	SM-1479	TRANSFORMER STATION	W OF SM-463		
TA-3-1480	SM-1480	TRANSFORMER STATION		16	I - 2
TA-3-1481	SM-1481	TRANSFORMER STATION		15	D - 7
TA-3-1482	SM-1482	TRANSFORMER STATION	PAD MOUNTED	17	G - 5
TA-3-1483	SM-1483	TEST TOWER		10	B - 3
TA-3-1484	SM-1484	TANK, SEPTIC		17	F - 9
TA-3-1485	SM-1485				
TA-3-1486	SM-1486				
TA-3-1487	SM-1487	MANHOLE, TELEPHONE		14	D - 5
TA-3-1488	SM-1488	MANHOLE, TELEPHONE		14	D - 5
TA-3-1489	SM-1489	MANHOLE, TELEPHONE		14	E - 5
TA-3-1490	SM-1490	MANHOLE, TELEPHONE		14	F - 5
TA-3-1491	SM-1491	MANHOLE, TELEPHONE		17	F - 5
TA-3-1492	SM-1492	MANHOLE, TELEPHONE		14	E - 4
TA-3-1493	SM-1493	MANHOLE, TELEPHONE		14	E - 4
TA-3-1494	SM-1494	MORGAN BLDG.		12	G - 3
TA-3-1495	SM-1495	TRANSPORTABLE OFF BLDG.		10	C - 4
TA-3-1496	SM-1496	TRANSPORTABLE OFF BLDG.		10	C - 4
TA-3-1497	SM-1497				
TA-3-1498	SM-1498				
TA-3-1499	SM-1499				
TA-3-1500	SM-1500	TRAILER, OFFICE	FORMERLY TA-0-198	10	B - 3
TA-3-1501	SM-1501	TRAILER, STORAGE	FORMERLY TA-0-266	12	H - 3
TA-3-1502	SM-1502	TRAILER, CHANGE HOUSE	FORMERLY TA-0-267	11	F - 9

FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
(7 OF 8)

REV.	DATE	REVISION	BY	CKD.	APP.
1	11-28-86	REVISED TO STATUS OF 1-17-86	NB		
0	9-27-83	REDRAWN & REVISED TO STATUS OF 6-15-83	RDS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION
CLASS. UNCLASSIFIED
REVIEWED
DATE 1/24/86

SUBMITTED
RECOMMENDED
APPROVED

DRAWN RDS
CHECKED
DATE 9-27-83
SHEET NO. 1 OF 17
DRAWING NO. ENG-R5103

21-NOV-83 KE13913
DRM ALAMUS2 LEVEL=1
ALIGN AND SCALE
-30.X 21

DECLASSIFIED

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STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT. NO.	MAP KEY
TA-3-1503	SM-1503	TRAILER, CHANGE HOUSE	FORMERLY TA-0-268	11	E - 9
TA-3-1504	SM-1504	TRAILER, OFFICE	FORMERLY TA-0-305	11	E - 9
TA-3-1505	SM-1505	TRAILER, OFFICE	FORMERLY TA-0-482	11	E - 9
TA-3-1506	SM-1506	TRAILER, OFFICE	FORMERLY TA-0-501	11	B - 6
TA-3-1507	SM-1507	TRAILER, OFFICE	FORMERLY TA-0-512	11	B - 6
TA-3-1508	SM-1508	TRAILER, LABORATORY	FORMERLY TA-0-519	11	A - 6
TA-3-1509	SM-1509		CANCELLED		
TA-3-1510	SM-1510	TRAILER, OFFICE	FORMERLY TA-0-534	10	D - 4
TA-3-1511	SM-1511	TRAILER, OFFICE	FORMERLY TA-0-310	11	D - 7
TA-3-1512	SM-1512	TRAILER, STORAGE	FORMERLY TA-0-573	11	A - 6
TA-3-1513	SM-1513	TRAILER, OFFICE	FORMERLY TA-0-592	11	E - 9
TA-3-1514	SM-1514	TRAILER, OFFICE	FORMERLY TA-0-595	11	E - 9
TA-3-1515	SM-1515	TRAILER, OFFICE	FORMERLY TA-0-653	13	G - 6
TA-3-1516	SM-1516	TRAILER, OFFICE	FORMERLY TA-0-667	11	C - 6
TA-3-1517	SM-1517	TRAILER, LABORATORY	FORMERLY TA-0-675	11	B - 5
TA-3-1518	SM-1518	TRAILER, OFFICE	FORMERLY TA-0-679	10	C - 4
TA-3-1519	SM-1519	TRAILER, OFFICE	FORMERLY TA-0-697	11	C - 5
TA-3-1520	SM-1520	TRAILER, OFFICE	FORMERLY TA-0-705	11	D - 7
TA-3-1521	SM-1521	TRAILER, CRAFTS	FORMERLY TA-0-706	10	B - 3
TA-3-1522	SM-1522	TRAILER, OFFICE	FORMERLY TA-0-716	11	E - 9
TA-3-1523	SM-1523	TRAILER, STORAGE	FORMERLY TA-0-721	11	C - 6
TA-3-1524	SM-1524	TRAILER, OFFICE	FORMERLY TA-0-723	13	F - 7
TA-3-1525	SM-1525	TRAILER, OFFICE	FORMERLY TA-0-725	13	F - 7
TA-3-1526	SM-1526	TRAILER, CRAFTS	FORMERLY TA-0-729	10	B - 3
TA-3-1527	SM-1527	TRAILER, OFFICE	FORMERLY TA-0-734	11	D - 8
TA-3-1528	SM-1528				
TA-3-1529	SM-1529				
TA-3-1530	SM-1530	TRAILER, OFFICE	FORMERLY TA-0-744	11	B - 6
TA-3-1531	SM-1531	TRAILER, OFFICE	FORMERLY TA-0-747	11	E - 6
TA-3-1532	SM-1532	TRAILER, OFFICE	FORMERLY TA-0-753	13	F - 6
TA-3-1533	SM-1533	TRAILER, OFFICE	FORMERLY TA-0-757	11	C - 7
TA-3-1534	SM-1534	TRAILER, OFFICE	FORMERLY TA-0-654	11	C - 7
TA-3-1535	SM-1535	TRAILER, OFFICE	FORMERLY TA-0-739	12	G - 5
TA-3-1536	SM-1536	TRAILER, OFFICE		13	J - 7
TA-3-1537	SM-1537	TRAILER, OFFICE		11	D - 8
TA-3-1538	SM-1538	TRAILER, OFFICE	FORMERLY TA-35-231	11	E - 9
TA-3-1539	SM-1539	TRAILER, OFFICE		11	E - 8
TA-3-1540	SM-1540	TRAILER, OFFICE		11	B - 5
TA-3-1541	SM-1541	TRAILER, OFFICE		11	A - 5
TA-3-1542	SM-1542	TRAILER, OFFICE		11	C - 6
TA-3-1543	SM-1543	TRAILER, OFFICE		10	E - 4
TA-3-1544	SM-1544	TRAILER, OFFICE		13	G - 5
TA-3-1545	SM-1545	TRAILER, OFFICE		13	G - 5
TA-3-1546	SM-1546	TRAILER, OFFICE		11	E - 6
TA-3-1547	SM-1547		CANCELLED		
TA-3-1548	SM-1548		CANCELLED		
TA-3-1549	SM-1549	TRAILER, OFFICE		11	E - 5
TA-3-1550	SM-1550	TRAILER, OFFICE		11	E - 5
TA-3-1551	SM-1551		CANCELLED		
TA-3-1552	SM-1552	TRAILER, OFFICE		13	G - 5
TA-3-1553	SM-1553	TRAILER, OFFICE		10	E - 3
TA-3-1554	SM-1554	TRAILER, OFFICE		10	F - 4
TA-3-1555	SM-1555				
TA-3-1556	SM-1556				
TA-3-1557	SM-1557				
TA-3-1558	SM-1558		CANCELLED		
TA-3-1559	SM-1559	TRANSPORTABLE OFF BLDG.		10	D - 5
TA-3-1560	SM-1560		CANCELLED		
TA-3-1561	SM-1561	GUARD STATION	FORMERLY TA-18-87	11	E - 5
TA-3-1562	SM-1562	TRAILER, CRAFTS	NOT SHOWN		
TA-3-1563	SM-1563				
TA-3-1564	SM-1564	TRAILER, OFFICE		11	C - 7
TA-3-1565	SM-1565	TRAILER, OFFICE		10	E - 4
TA-3-1566	SM-1566	TRANSPORTABLE OFF BLDG.		10	D - 5
TA-3-1567	SM-1567	TRAILER, OFFICE		13	G - 6
TA-3-1568	SM-1568	TRAILER, OFFICE		10	B - 3
TA-3-1569	SM-1569	TRAILER, OFFICE		10	C - 4
TA-3-1570	SM-1570	TRAILER, OFFICE		13	G - 6
TA-3-1571	SM-1571	TRAILER, OFFICE		13	G - 6
TA-3-1572	SM-1572				
TA-3-1573	SM-1573	TRAILER, OFFICE		11	E - 6
TA-3-1574	SM-1574	TRAILER, OFFICE		11	E - 6
TA-3-1575	SM-1575				
TA-3-1576	SM-1576				
TA-3-1577	SM-1577				
TA-3-1578	SM-1578	TRAILER, OFFICE		11	B - 7
TA-3-1579	SM-1579	TRAILER, OFFICE		11	E - 6
TA-3-1580	SM-1580				

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT. NO.	MAP KEY
TA-3-1581	SM-1581				
TA-3-1582	SM-1582				
TA-3-1583	SM-1583				
TA-3-1584	SM-1584				
TA-3-1585	SM-1585				
TA-3-1586	SM-1586				
TA-3-1587	SM-1587				
TA-3-1588	SM-1588				
TA-3-1589	SM-1589				
TA-3-1590	SM-1590				
TA-3-1591	SM-1591				
TA-3-1592	SM-1592				
TA-3-1593	SM-1593				
TA-3-1594	SM-1594				
TA-3-1595	SM-1595				
TA-3-1596	SM-1596				
TA-3-1597	SM-1597				
TA-3-1598	SM-1598				
TA-3-1599	SM-1599				
TA-3-1600	SM-1600				
TA-3-1601	SM-1601				
TA-3-1602	SM-1602				
TA-3-1603	SM-1603				
TA-3-1604	SM-1604				
TA-3-1605	SM-1605				
TA-3-1606	SM-1606				
TA-3-1607	SM-1607	TRANSFORMER STATION	PAD MOUNTED	7	G - 5
TA-3-1608	SM-1608	TRANSFORMER STATION	PAD MOUNTED	4	E - 4
TA-3-1609	SM-1609				
TA-3-1610	SM-1610	GUARD STATION			D - 6
TA-3-1611	SM-1611	TRANSFORMER STATION		4	C - 5
TA-3-1612	SM-1612				
TA-3-1613	SM-1613	TRANSPORTABLE OFF BLDG.		0	C - 5
TA-3-1614	SM-1614	GUARD POST			F - 6
TA-3-1615	SM-1615	GUARD POST			D - 8
TA-3-1616	SM-1616	TRANSPORTABLE OFF BLDG.		0	F - 3
TA-3-1617	SM-1617	TRANSPORTABLE OFF BLDG.		0	F - 3
TA-3-1618	SM-1618		CANCELLED		
TA-3-1619	SM-1619		CANCELLED		
TA-3-1620	SM-1620		CANCELLED		
TA-3-1621	SM-1621		CANCELLED		
TA-3-1622	SM-1622				
TA-3-1623	SM-1623				
TA-3-1624	SM-1624	TRANSFORMER STATION	PAD MOUNTED	7	G - 5
TA-3-1625	SM-1625	TRANSFORMER STATION	PAD MOUNTED	7	G - 5
TA-3-1626	SM-1626	TRANSFORMER STATION	PAD MOUNTED	4	E - 3
TA-3-1627	SM-1627				
TA-3-1628	SM-1628				
TA-3-1629	SM-1629				
TA-3-1630	SM-1630	MANHOLE, TELEPHONE		7	F - 6
TA-3-1631	SM-1631	MANHOLE, TELEPHONE		7	F - 7
TA-3-1632	SM-1632	MANHOLE, TELEPHONE		7	F - 7
TA-3-1633	SM-1633	MANHOLE, TELEPHONE		7	F - 8
TA-3-1634	SM-1634	MANHOLE, TELEPHONE		7	F - 8
TA-3-1635	SM-1635				
TA-3-1636	SM-1636				
TA-3-1637	SM-1637	TRANSFORMER STATION	PAD MOUNTED	7	G - 6
TA-3-1638	SM-1638	MANHOLE, SANITARY		4	E - 3
TA-3-1639	SM-1639	MANHOLE, SANITARY		4	F - 3
TA-3-1640	SM-1640	CLUB 1663 FITNESS TRACK	W OF SM-1663		
TA-3-1641	SM-1641		CANCELLED		
TA-3-1642	SM-1642	STORAGE SHED		1	D - 5
TA-3-1643	SM-1643				
TA-3-1644	SM-1644				
TA-3-1645	SM-1645				
TA-3-1646	SM-1646				
TA-3-1647	SM-1647				
TA-3-1648	SM-1648	STORAGE SHED		11	E - 6
TA-3-1649	SM-1649				
TA-3-1650	SM-1650				
TA-3-1651	SM-1651				
TA-3-1652	SM-1652				
TA-3-1653	SM-1653				
TA-3-1654	SM-1654				
TA-3-1655	SM-1655				
TA-3-1656	SM-1656				
TA-3-1657	SM-1657				
TA-3-1658	SM-1658				

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT. NO.	MAP KEY
TA-3-1659	SM-1659				
TA-3-1660	SM-1660				
TA-3-1661	SM-1661				
TA-3-1662	SM-1662				
TA-3-1663	SM-1663	WELLNESS CENTER	CLUB 1663	10	A - 3
TA-3-1664	SM-1664				
TA-3-1665	SM-1665				
TA-3-1666	SM-1666				
TA-3-1667	SM-1667	SEEPAGE PIT		17	F - 9
TA-3-1668	SM-1668				
TA-3-1669	SM-1669				
TA-3-1670	SM-1670				
TA-3-1671	SM-1671				
TA-3-1672	SM-1672				
TA-3-1673	SM-1673				
TA-3-1674	SM-1674				
TA-3-1675	SM-1675				
TA-3-1676	SM-1676				
TA-3-1677	SM-1677				
TA-3-1678	SM-1678				
TA-3-1679	SM-1679				
TA-3-1680	SM-1680				
TA-3-1681	SM-1681				
TA-3-1682	SM-1682				
TA-3-1683	SM-1683				
TA-3-1684	SM-1684				
TA-3-1685	SM-1685				
TA-3-1686	SM-1686				
TA-3-1687	SM-1687				
TA-3-1688	SM-1688				
TA-3-1689	SM-1689				
TA-3-1690	SM-1690				
TA-3-1691	SM-1691				
TA-3-1692	SM-1692				
TA-3-1693	SM-1693				
TA-3-1694	SM-1694				
TA-3-1695	SM-1695				
TA-3-1696	SM-1696				
TA-3-1697	SM-1697				
TA-3-1698	SM-1698				
TA-3-1699	SM-1699				
TA-3-1700	SM-1700				
TA-3-1701	SM-1701				
TA-3-1702	SM-1702				

FIGURE 3-14

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REV.	DATE	REVISION	BY
	1-29-86	REVISED TO STATUS OF 1-17-86	ALC
0	9-27-83	ADDED NEW INDEX SHEET	

UNIVERSITY OF CALIFORNIA
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INDEX SHEET
STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

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REVIEWER
DATE 12-4-83

SUBMITTED
DRAWN HDS
CHECKED

RECOMMENDED
DATE

APPROVED

SHEET NO. 8 OF 12

DRAWING NO. ENG-R5103

02-NOV-83 KEI3514

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STRUCTURE NUMBER	DESIG-NATION	REMARKS
TA-3-1	SM-1	MAIN BUILDING (REMOVED)
TA-3-2	SM-2	PRODUCTION SHOP "
TA-3-3	SM-3	STORAGE BUILDING "
TA-3-4	SM-4	HUTMENT "
TA-3-5	SM-5	HUTMENT "
TA-3-6	SM-6	HUTMENT "
TA-3-7	SM-7	HUTMENT "
TA-3-8	SM-8	MAGAZINE "
TA-3-9	SM-9	MAGAZINE "
TA-3-10	SM-10	MAGAZINE "
TA-3-11	SM-11	MAGAZINE "
TA-3-12	SM-12	BURN PIT "
TA-3-13	SM-13	FIRE EQUIPMENT & HOSE HOUSE "
TA-3-14	SM-14	GUARD HOUSE "
TA-3-15	SM-15	SEPTIC TANK
TA-3-16	SM-16	VAN DE GRAAFF LABORATORY
TA-3-17	SM-17	VAN DE GRAAFF CORRIDOR
TA-3-18	SM-18	VAN DE GRAAFF ACCELERATOR BUILDING
TA-3-19	SM-19	COOLING TOWER
TA-3-20	SM-20	STORAGE BUILDING
TA-3-21	SM-21	CYLINDER TANK STORAGE
TA-3-22	SM-22	CENTRAL POWER & STEAM PLANT
TA-3-23	SM-23	SWITCHGEAR STATION
TA-3-24	SM-24	WATER TREATMENT HOUSE
TA-3-25	SM-25	COOLING TOWER
TA-3-26	SM-26	TANK
TA-3-27	SM-27	TANK
TA-3-28	SM-28	COMMUNICATIONS BUILDING
TA-3-29	SM-29	CMR LABORATORY
TA-3-30	SM-30	GENERAL WAREHOUSE
TA-3-31	SM-31	CHEMICAL WAREHOUSE
TA-3-32	SM-32	CRYOGENICS BUILDING "A"
TA-3-33	SM-33	CRYOGENICS PASSAGEWAY
TA-3-34	SM-34	CRYOGENICS BUILDING "B"
TA-3-35	SM-35	FABRICATION BUILDING
TA-3-36	SM-36	SERVICE STATION & MOTOR POOL
TA-3-37	SM-37	LAB MAINTENANCE STORAGE
TA-3-38	SM-38	LAB MAINTENANCE SHOPS
TA-3-39	SM-39	TECH SHOPS
TA-3-40	SM-40	PHYSICS BUILDING
TA-3-41	SM-41	FIRE STATION
TA-3-42	SM-42	GUARD HOUSE
TA-3-43	SM-43	ADMINISTRATION BUILDING
TA-3-44	SM-44	INCINERATOR (REMOVED)
TA-3-45	SM-45	GAS POOL
TA-3-46	SM-46	FINAL SETTLING TANK
TA-3-47	SM-47	TRICKLING FILTER
TA-3-48	SM-48	DOSING TANK
TA-3-49	SM-49	IMHOFF TANK
TA-3-50	SM-50	INLET STRUCTURE
TA-3-51	SM-51	SLUDGE DRYING BED
TA-3-52	SM-52	SLUDGE DRYING BED
TA-3-53	SM-53	GUARD HOUSE
TA-3-54	SM-54	SEPTIC TANK
TA-3-55	SM-55	GAS HOUSE
TA-3-56	SM-56	UNIT SUBSTATION
TA-3-57	SM-57	OIL PUMP HOUSE
TA-3-58	SM-58	COOLING TOWER
TA-3-59	SM-59	SEWAGE LIFT STATION
TA-3-60	SM-60	HOSE HOUSE (REMOVED)
TA-3-61	SM-61	HOSE HOUSE (REMOVED)
TA-3-62	SM-62	AUXILIARY GENERATOR
TA-3-63	SM-63	TANK
TA-3-64	SM-64	TANK
TA-3-65	SM-65	SOURCE STORAGE BUILDING
TA-3-66	SM-66	SIGMA BUILDING (REMOVED)
TA-3-67	SM-67	HOSE HOUSE (REMOVED)
TA-3-68	SM-68	HOSE HOUSE (REMOVED)
TA-3-69	SM-69	UNIT SUBSTATION
TA-3-70	SM-70	OFFICE BUILDING (BATCH PLANT)
TA-3-71	SM-71	STORAGE BUILDING
TA-3-72	SM-72	AGGREGATE BINS
TA-3-73	SM-73	ASPHALTIC CONCRETE PLANT
TA-3-74	SM-74	STORAGE TANK
TA-3-75	SM-75	STORAGE TANK
TA-3-76	SM-76	STORAGE TANK
TA-3-77	SM-77	STORAGE TANK
TA-3-78	SM-78	TRUCK SCALE
TA-3-79	SM-79	SEPTIC TANK
TA-3-80	SM-80	TRANSFORMER STATION
TA-3-81	SM-81	SUBSTATION
TA-3-82	SM-82	SUBSTATION
TA-3-83	SM-83	TRANSFORMER STATION (REMOVED)
TA-3-84	SM-84	GUARD HOUSE
TA-3-85	SM-85	MANHOLE (GAS)
TA-3-86	SM-86	SUBSTATION
TA-3-87	SM-87	SWITCHGEAR STATION
TA-3-88	SM-88	SUBSTATION
TA-3-89	SM-89	GUARD HOUSE
TA-3-90	SM-90	MANHOLE
TA-3-91	SM-91	MANHOLE
TA-3-92	SM-92	MANHOLE
TA-3-93	SM-93	TANK
TA-3-94	SM-94	MANHOLE
TA-3-95	SM-95	MANHOLE
TA-3-96	SM-96	GUARD HOUSE
TA-3-97	SM-97	GUARD HOUSE
TA-3-98	SM-98	ROAD BLOCK
TA-3-99	SM-99	ROAD BLOCK
TA-3-100	SM-100	CAFETERIA
TA-3-101	SM-101	DRUM STORAGE PLATFORM
TA-3-102	SM-102	TECH SHOPS ADDITION
TA-3-103	SM-103	RETAINING WALL
TA-3-104	SM-104	SUBSTATION (LIGHTING)
TA-3-105	SM-105	
TA-3-106	SM-106	
TA-3-107	SM-107	
TA-3-108	SM-108	
TA-3-109	SM-109	
TA-3-110	SM-110	
TA-3-111	SM-111	MANHOLE (WATER)
TA-3-112	SM-112	MANHOLE " "
TA-3-113	SM-113	MANHOLE " "
TA-3-114	SM-114	MANHOLE " "
TA-3-115	SM-115	MANHOLE " "
TA-3-116	SM-116	MANHOLE " "
TA-3-117	SM-117	MANHOLE " "
TA-3-118	SM-118	MANHOLE " "
TA-3-119	SM-119	MANHOLE " "
TA-3-120	SM-120	MANHOLE " "
TA-3-121	SM-121	MANHOLE " "

STRUCTURE NUMBER	DESIG-NATION	REMARKS

STRUCTURE NUMBER	DESIG-NATION	REMARKS

STRUCTURE NUMBER	DESIG-NATION	REMARKS

FIGURE 3-15

TA-3 STRUCTURE LOCATION INDEX

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CHKD
7	7-15-58	REDRAWN DRAWING NO. CHANGED TO ENG-R115 AND ENG-A 115	NOB	JASEED

AUTHORIZED FOR HEALTH SAFETY FIRE PROT. SEC.

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

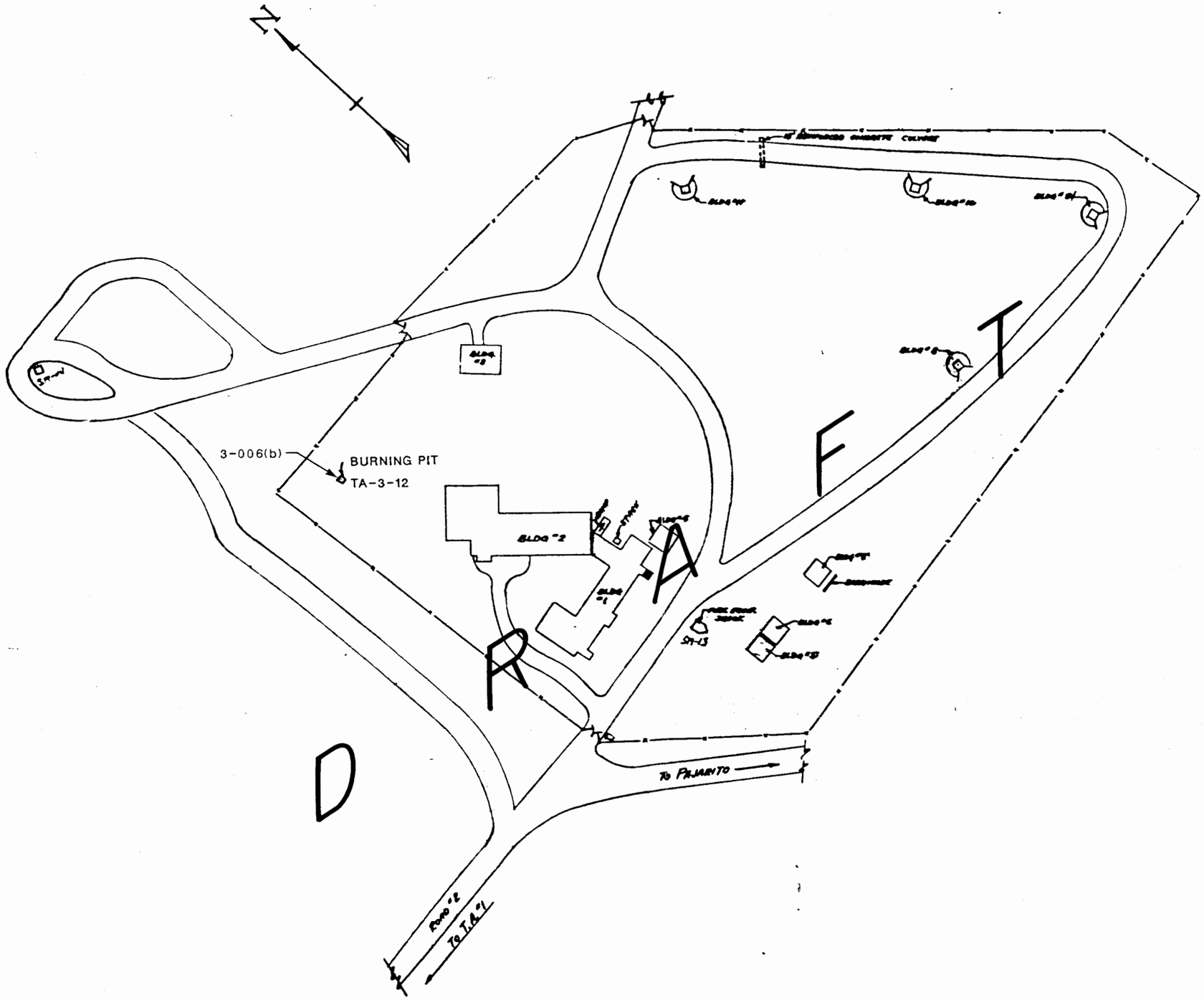
STRUCTURE LOCATION PLAN

TA-3 SOUTH MESA SITE

CHECKED	RECOMMENDED	APPROVED
J. B. Green ENGINEER	J. C. Kunkel GROUP LEADER	GB ENG. DIV. CHIEF

DRAWN	DATE	DRAWING NO.
N BYERS	7-15-55	ENG-R115
SCALE NONE	SHEET 1 OF 3	

301215 02 01 B70



EXPLANATION

3-001 SWMU LOCATION

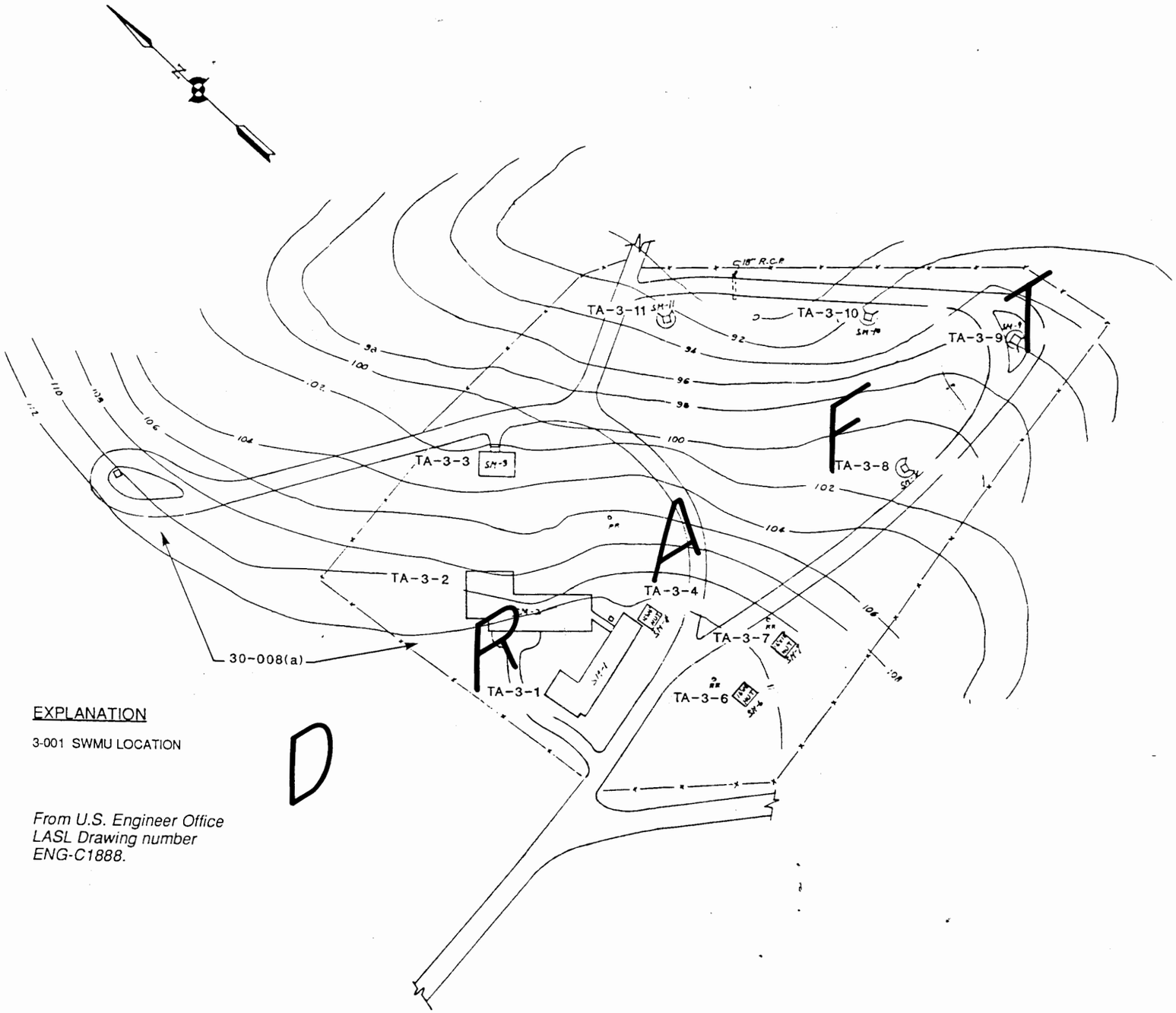
From South Mesa Site Plot Plan. Tech Maintenance Group, drawing number A5-R38.

FIGURE 3-12

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

UNCLASSIFIED

301215 02 01 B69



EXPLANATION

3-001 SWMU LOCATION

From U.S. Engineer Office LASL Drawing number ENG-C1888.

FIGURE 3-11

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-3

UNCLASSIFIED

TA-4

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 4, called Alpha Site, is no longer in operation, and the structures have been removed. Much of the property occupied by TA-4 in the 1940's is now occupied by TA-52. It had been used as a firing site.

The site is located on a small finger mesa that extends eastward from the main Pajarito Mesa. It is bound on the north by a small, unnamed canyon that branches west from Mortandad Canyon, and on the south by Canada del Buey. The mesa surface is underlain by a welded unit of the Bandelier Tuff.

The mesa top slopes eastward, with the eastern part of TA-4 lying at about 7,150 feet asl and the western part at about 7,200 feet asl. The site lies in the Ponderosa Pine zone of overstory vegetation. The soil is described as Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

The potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,950 feet. An unsaturated zone, consisting almost entirely of tuff and pumiceous units, is over 1,000 feet thick in the area of TA-4. The aquifer is in Tertiary sedimentary rocks of the Tesuque and Puye Formations that underlie the Pajarito Plateau on which the laboratory is located.

4-001 FIRING SITE

SUMMARY

LOCATION: TA-4
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1945 - 1946

UNIT INFORMATION

This firing site, TA-4-18, was operated for about 2 years in firing experiments using HE as an energy source. Shot sizes ranged from 0.5 to 1,000 pounds of HE.

WASTE INFORMATION

The waste consisted of shot debris, including schrapnel, wiring, and possibly uranium, beryllium, and lead.

RELEASE INFORMATION

In the past, shot debris from the firing area was bulldozed over the edge of the mesa (see 4-002). Shot debris, all aboveground structures, and known underground structures were removed in 1988. No radioactivity was detected during decommissioning. Residues outside the decommissioned area may remain.

DRAFT

4-002 SURFACE DISPOSAL SITE

SUMMARY

LOCATION: TA-4
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1944 - 1946

UNIT INFORMATION

This surface disposal area was used about two years for the disposal of shot debris generated at TA-4. The debris was bulldozed off the side of the mesa onto the north-facing slope of Mortandad Canyon. The dimensions of the unit have not been determined.

WASTE INFORMATION

The waste consisted of shot debris, including cables, wires, and possibly small amounts of uranium, beryllium, lead, and any unexploded HE (thought unlikely).

RELEASE INFORMATION

The material was not covered at the end of its active life. There is a possibility for natural mobilization.

DRAFT

TA-4 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
4-001	4-1, 4-2
4-002	4-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B115

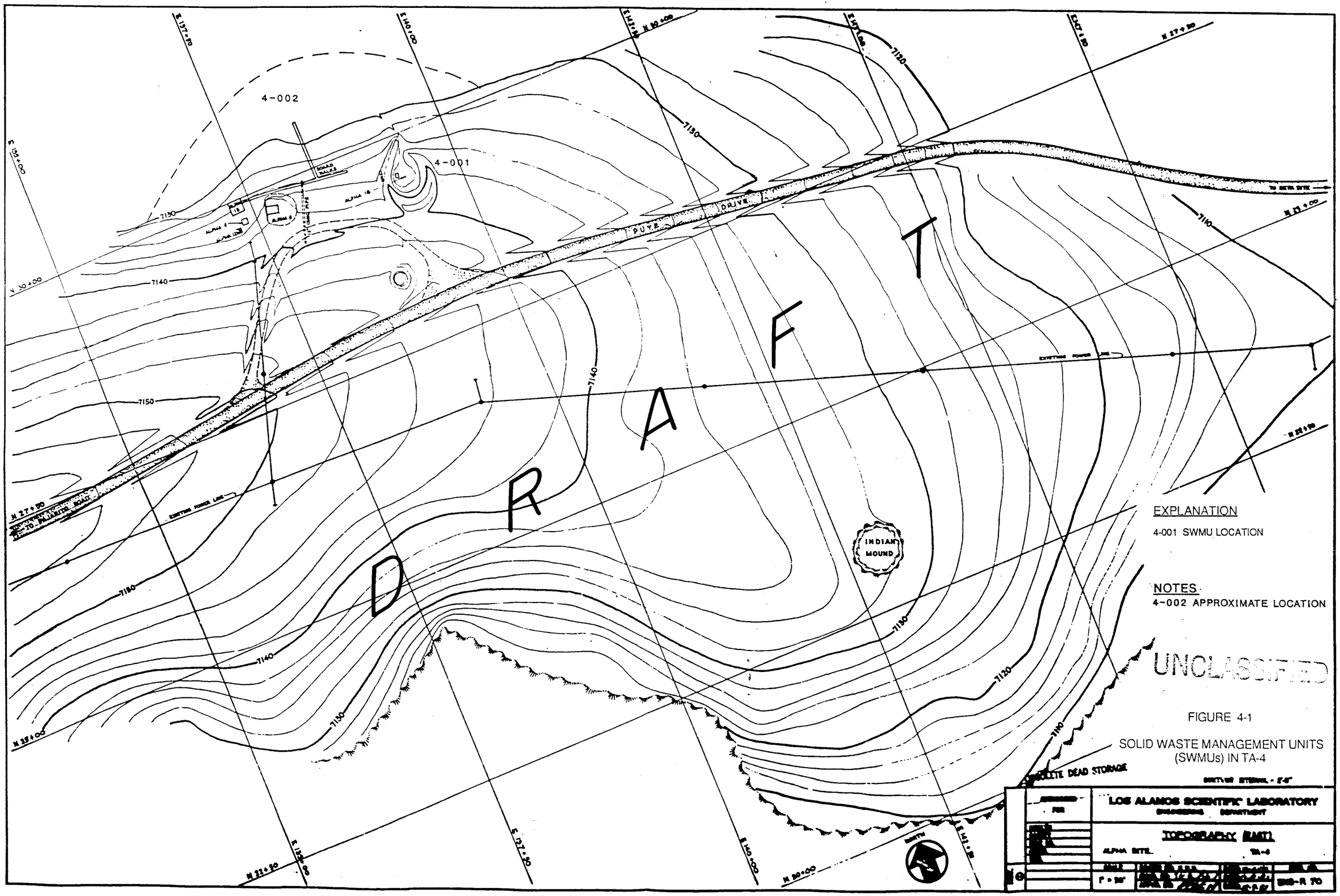
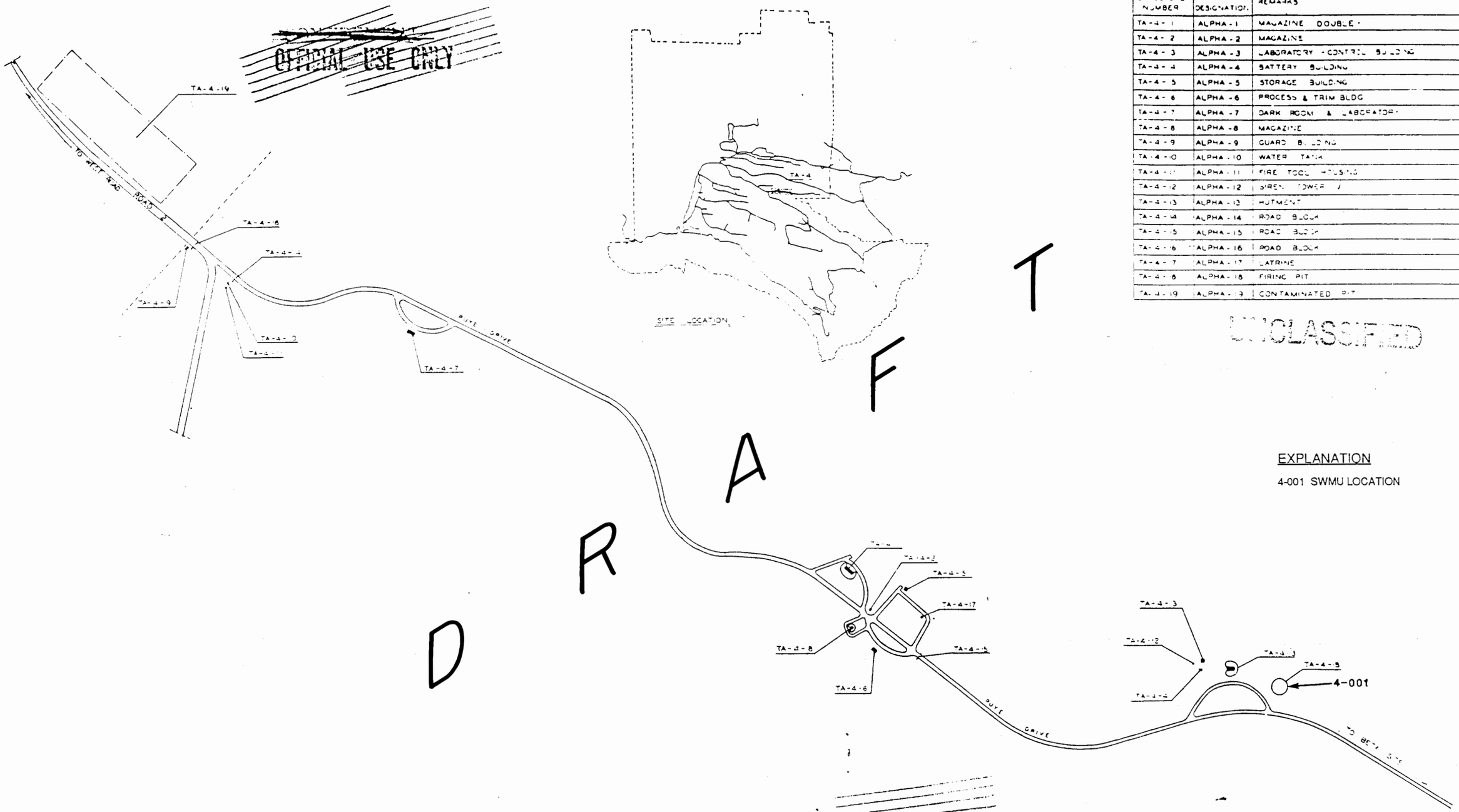


FIGURE 4-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-4

3012 2 01 B108



STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-4-1	ALPHA-1	MAGAZINE DOUBLE
TA-4-2	ALPHA-2	MAGAZINE
TA-4-3	ALPHA-3	LABORATORY - CONTROL BUILDING
TA-4-4	ALPHA-4	BATTERY BUILDING
TA-4-5	ALPHA-5	STORAGE BUILDING
TA-4-6	ALPHA-6	PROCESS & TRIM BLDG
TA-4-7	ALPHA-7	DARK ROOM & LABORATORY
TA-4-8	ALPHA-8	MAGAZINE
TA-4-9	ALPHA-9	GUARD BUILDING
TA-4-10	ALPHA-10	WATER TANK
TA-4-11	ALPHA-11	FIRE TOOL HOUSING
TA-4-12	ALPHA-12	SIREN TOWER
TA-4-13	ALPHA-13	HOTMONT
TA-4-14	ALPHA-14	ROAD BLOCK
TA-4-15	ALPHA-15	ROAD BLOCK
TA-4-16	ALPHA-16	ROAD BLOCK
TA-4-17	ALPHA-17	LATRINE
TA-4-18	ALPHA-18	FIRING PIT
TA-4-19	ALPHA-19	CONTAMINATED PIT

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UNCLASSIFIED

DRAFT

EXPLANATION

4-001 SWMU LOCATION

OFFICIAL USE ONLY

Classification changed to
by authority of the U.S. Atomic Energy Commission,
Per R.C.SMITH 10-4-54
(Person authorizing change in classification) (Date)
By [illegible] 1955
(Signature of person making the change, and date)

1-0105921

FIGURE 4-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-4

NORTH MAGNETIC

AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING—CONSTRUCTION & MAINTENANCE GROUP
HEALTH SAFETY FIRE PR. COMM. SEC.	STRUCTURE LOCATION PLAN TA-4 ALPHA-SITE
	SCALE / DRAWN BY / DATE / DWG NO.
	CHKD BY / DATE

TA-5

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 5, called Beta Site, is no longer in operation, and the surface structures have been removed. The site was built in conjunction with TA-4 in the 1940's and lies to the east of it. It had been used as a firing site.

The site is located on a small finger mesa that extends eastward from the main Pajarito Mesa. It is bound on the north by a small, unnamed canyon that branches west from Mortandad Canyon and on the south by Canada del Buey. The mesa top is less than 500 feet wide at the former location of TA-5. The mesa surface is underlain by a welded unit of the Bandelier Tuff.

The mesa top slopes eastward, with the eastern part of TA-5 lying at about 7,060 feet asl and the western part at about 7,095 feet asl. The site lies in the Pinon-Juniper zone of overstory vegetation. The soil is described as Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy Rock outcrop complex has a moderate to severe water erosion hazard (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event) and medium to high runoff.

The potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,900 feet beneath the TA-5 site. An unsaturated zone, consisting almost entirely of tuff and pumiceous units, is over 1,000 feet thick in the area of TA-5. The aquifer is in Tertiary sedimentary rocks, of the Tesuque and Puye Formations that underlie the Pajarito Plateau on which the laboratory is located.

5-001 FIRING SITES

SUMMARY

LOCATION: TA-5
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Firing Pit 1 [5-001(a)] is near TA-5-7 and was used from 1944 to 1947. Firing Pit 2 [5-001(b)] is near TA-5-15 and was used from 1945 to the late 1940's. Experimental shots were set up at these two sites and fired on open ground. The shots used HE as the energy source. The sites were used intensively for about three years and have been decommissioned for radioactive constituents. Shot size ranged from 30-2,500 pounds of HE.

WASTE INFORMATION

Residues associated with these firing experiments included uranium and may have included beryllium, cadmium, and lead, as well as undetonated HE (although there are no records of any shots at these sites not completely detonating).

RELEASE INFORMATION

The sites have been decommissioned for radioactive constituents. During site cleanup activities in 1985, the main firing area was excavated and areas found to be radioactively contaminated were cleaned to background. It is not known if other spots exist or if there are additional areas of uranium migration.

DRAFT

5-002 CANYONSIDE DISPOSAL

SUMMARY

LOCATION: TA-5
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1944 - 1947

UNIT INFORMATION

This surface diposal area was created by pushing shot debris from TA-5 experiments over the side of Mortandad Canyon's north-facing slope. The site was used intensively for about three years.

WASTE INFORMATION

The waste includes shot debris, including cables, wire and possibly trace amounts of uranium, lead, beryllium, and cadmium.

RELEASE INFORMATION

It is possible that any remaining material may be mobilized by natural processes.

DRAFT

5-003 CALIBRATION CHAMBER

SUMMARY

LOCATION: TA-5
TYPE OF UNIT(s): OTHER: CALIBRATION CHAMBER
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960

UNIT INFORMATION

The underground calibration chamber, TA-5-20, was originally lined with lead bricks. Equipment containing uranium was used in conjunction with the chamber. The chamber has now been filled with dirt.

WASTE INFORMATION

Although the unit itself did not contain or generate waste, if the lead used in lining the chamber was left in place, the chamber is now a disposal site.

RELEASE INFORMATION

It is believed that the lead bricks were removed when the chamber was backfilled with dirt. Residual uranium is very unlikely. This unit was not addressed during the decommissioning of TA-5 in 1985.

DRAFT

5-004 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-5
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST.1948 - 1950's

UNIT INFORMATION

This septic tank, TA-5-13, received industrial waste for approximately 10 years. It was of reinforced concrete 5' x 5' x 7' deep and served TA-5-1. As-built drawings indicate a discharge line from the septic tank running south towards the canyon.

WASTE INFORMATION

The tank is listed as having toxic/chemical contamination.

RELEASE INFORMATION

The tank has been removed. Documentation has not been found that indicates whether the discharge area was investigated during the removal.

DRAFT

5-005 FRENCH DRAIN

SUMMARY

LOCATION: TA-5
TYPE OF UNIT(s): WASTE LINE
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: LATE 1940's

UNIT INFORMATION

During the decommissioning of TA-5, a french drain was found originating from storage building TA-5-8 and running toward the canyon. The french drain was used for liquid disposal of wastes from TA-5-8.

WASTE INFORMATION

The drain was found to be contaminated with uranium. It is unknown whether chemicals were discharged to the drain.

RELEASE INFORMATION

The french drain and some soil have been removed, but LANL staff believe that further radioactive and possibly chemical contamination may be present on the canyon side. It is unknown if hazardous constituents have been released from the drain.

DRAFT

TA-5 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
5-001(a)	5-1
5-001(b)	5-1
5-002	5-1
5-003	5-1
5-004	5-1, 5-2
5-005	5-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B118

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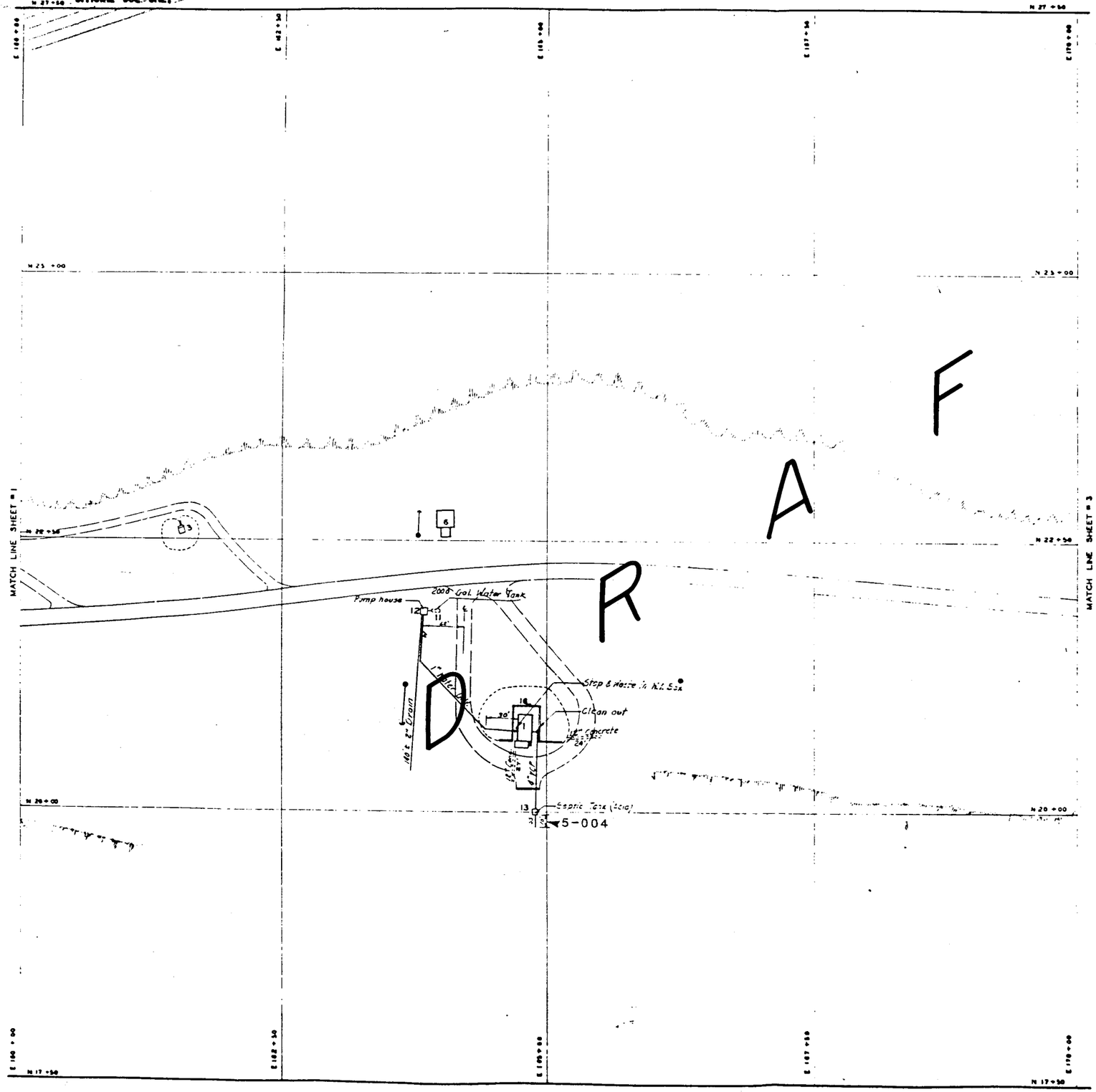
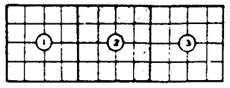


UNCLASSIFIED

DRAFT



INDEX TO SHEETS
NO SCALE

EXPLANATION

5-001 SWMU LOCATION

FIGURE 5-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-5

NO.	DATE	REVISIONS	BY	CHKD	CHIEF ENG.	CHIEF P.E.
2	8-27-58	REVISED TO FIELD CHECKED STATUS OF 8-16-58	LEC			
1	9-9-55	REVISED TO FIELD ISSUE STATUS	DIN			

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

UTILITY LOCATION PLAN
TA-5 BETA SITE
WATER & SEWER SYSTEM

CHECKED — DESIGNER | RECOMMENDED — GROUP LEADER | APPROVED — ENG. DEPT. SERVICE

DRAWN DIN | DATE 9-9-55 | DRAWING NO. ENG-5-516

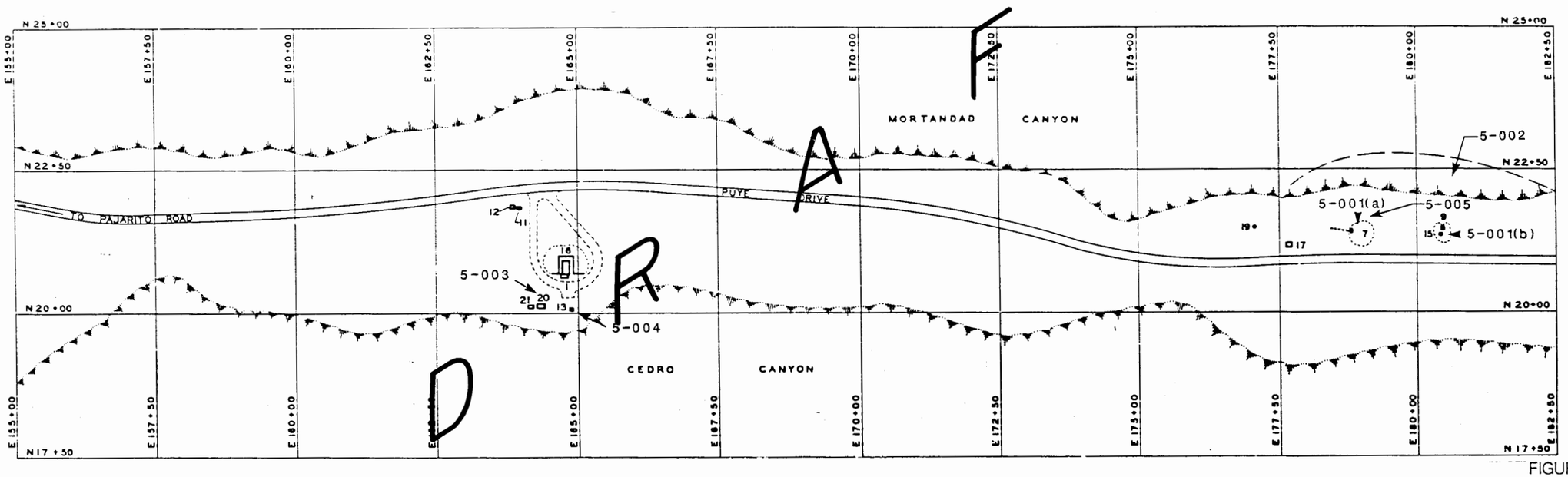
SCALE | SHEET 2

AUTHORIZED FOR
EARTH
SAFETY
FIRE PROT.
ELEC.

OFFICIAL USE ONLY

301215 02 01 B117

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-5-1	BETA-1	LABORATORY BUILDING	ABANDONED 1959	N20+00 E165+00
TA-5-2	BETA-2		REMOVED 1960	
TA-5-3	BETA-3		REMOVED 1960	
TA-5-4	BETA-4		REMOVED 1960	
TA-5-5	BETA-5		REMOVED 1960	
TA-5-6	BETA-6		REMOVED 1960	
TA-5-7	BETA-7	STEEL BARRICADE	ABANDONED 1959	N20+00 E180+00
TA-5-8	BETA-8		REMOVED 1950	
TA-5-9	BETA-9	X-UNIT CHAMBER	ABANDONED 1959	N22+50 E180+00
TA-5-10	BETA-10		REMOVED 1960	
TA-5-11	BETA-11	TANK	WATER, UNDERGROUND	N22+50 E165+00
TA-5-12	BETA-12	PUMPHOUSE	ABANDONED 1959	N22+50 E165+00
TA-5-13	BETA-13	TANK	SEPTIC, ABANDONED 1959	N20+00 E165+00
TA-5-14	BETA-14		REMOVED 1952	
TA-5-15	BETA-15	STEEL BARRICADE	ABANDONED 1959	N22+50 E180+00
TA-5-16	BETA-16	BARRICADE	ABANDONED 1962	N20+00 E165+00
TA-5-17	BETA-17	EXPERIMENTAL CONC. WALL	ABANDONED 1959	N20+00 E177+50
TA-5-18	BETA-18		REMOVED 1957	
TA-5-19	BETA-19	PLATFORM	ABANDONED 1959	N22+50 E177+50
TA-5-20	BETA-20	CALIBRATION FACILITY		N20+00 E165+00
TA-5-21	BETA-21	MAINTENANCE BUILDING		N20+00 E165+00
TA-5-22	BETA-22		REMOVED 1970	



EXPLANATION

5-001 SWMU LOCATION

FIGURE 5-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-5

SCALE 100' 50' 0 100' 200' 300' 400'

NOTES

5-002 LOCATION APPROXIMATE

REVIEWER

CLASS U DATE 1/12/73

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CHECK	ENG. DEPT.	ENG. G. O.
13	1-12-73	REVISED TO STATUS OF 1-12-73	D.A.D.			
12	8-13-71	REVISED TO STATUS OF 8-13-71	D.A.D.			
11	10-14-66	REVISED TO STATUS OF 8-8-66	R.H.			
10	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R 119)	D.D.S.			

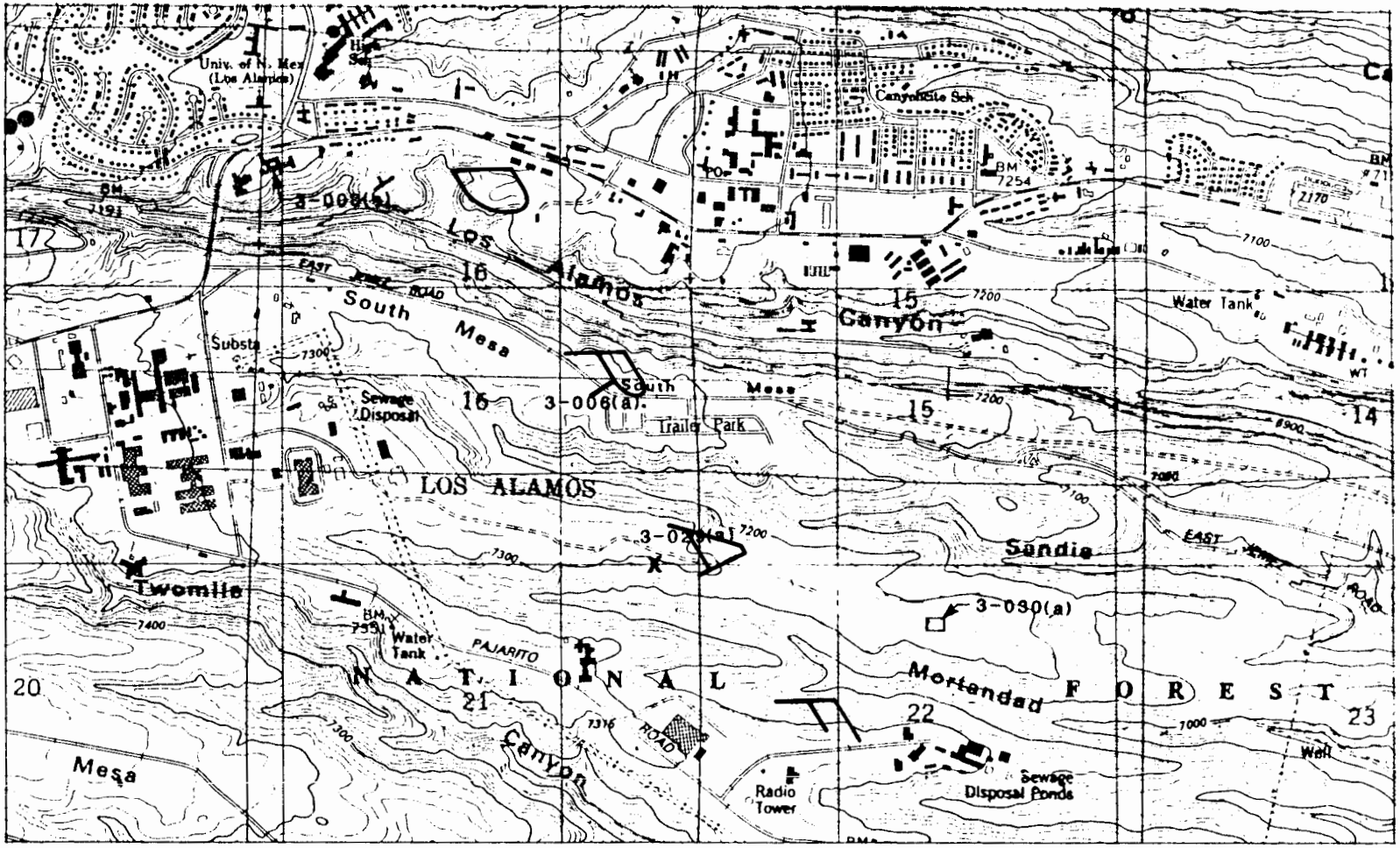
AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., M.C.

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

STRUCTURE LOCATION PLAN
TA-5 BETA SITE

CHECKED: J. A. Eyer
RECOMMENDED: Gordon Dodge
APPROVED: Eng. Dept. Office
DESIGNED: D. D. Simms
DATE: 8-15-61
DRAWING NO. ENG-R 2418
SCALE
SHEET

301215 02 01 A7



EXPLANATION

3-001 SWMU LOCATION

UNCLASSIFIED

FIGURE 3-13

SOLID WASTE MANAGEMENT UNITS
(SWMUs) IN TA-3

301215 02 01 B8

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-1	SM-1		REMOVED 1949		
TA-3-2	SM-2		REMOVED 1949		
TA-3-3	SM-3		REMOVED 1949		
TA-3-4	SM-4		REMOVED 1949		
TA-3-5	SM-5		REMOVED 1949		
TA-3-6	SM-6		REMOVED 1949		
TA-3-7	SM-7		REMOVED 1949		
TA-3-8	SM-8		REMOVED 1949		
TA-3-9	SM-9		REMOVED 1949		
TA-3-10	SM-10		REMOVED 1949		
TA-3-11	SM-11		REMOVED 1949		
TA-3-12	SM-12		REMOVED 1949		
TA-3-13	SM-13		REMOVED 1949		
TA-3-14	SM-14		REMOVED 1949		
TA-3-15	SM-15		REMOVED 1964		
TA-3-16	SM-16	VAN DE GRAAFF LABORATORY		11	C-9
TA-3-17	SM-17	VAN DE GRAAFF CORRIDOR	INCORPORATED WITH SM-16		
TA-3-18	SM-18	VAN DE GRAAFF ACCEL BLDG	INCORPORATED WITH SM-16		
TA-3-19	SM-19		REMOVED 1966		
TA-3-20	SM-20		REMOVED 1964		
TA-3-21	SM-21	CYLINDER TANK STORAGE		11	C-8
TA-3-22	SM-22	STEAM PLANT		12	G-5
TA-3-23	SM-23	SWITCHGEAR STATION		12	G-4
TA-3-24	SM-24	WATER TREATMENT HOUSE		12	G-5
TA-3-25	SM-25	COOLING TOWER		12	G-5
TA-3-26	SM-26	TANK, FUEL		12	G-4
TA-3-27	SM-27	TANK, FUEL		12	G-4
TA-3-28	SM-28	OFFICE BUILDING		10	D-5
TA-3-29	SM-29	CMR LABORATORY		11	E-7
TA-3-30	SM-30	GENERAL WAREHOUSE		11	A-4
TA-3-31	SM-31	CHEMICAL WAREHOUSE		11	A-5
TA-3-32	SM-32	CRYOGENICS BLDG A		13	G-6
TA-3-33	SM-33	CRYOGENICS PASSAGEWAY	SM-32 TO SM-34	13	G-6
TA-3-34	SM-34	CRYOGENICS BLDG B		13	F-6
TA-3-35	SM-35	PRESS BUILDING		13	G-7
TA-3-36	SM-36	SERVICE STATION		10	B-4
TA-3-37	SM-37	ZIA MAINTENANCE STORAGE		10	B-3
TA-3-38	SM-38	ZIA MAINTENANCE SHOPS		10	C-3
TA-3-39	SM-39	TECH SHOPS		11	D-6
TA-3-40	SM-40	PHYSICS BUILDING		11	B-6
TA-3-41	SM-41	FIRE STATION NO. 1		10	E-2
TA-3-42	SM-42	GUARD HOUSE		11	D-6
TA-3-43	SM-43	ADMINISTRATION BLDG		10	D-4
TA-3-44	SM-44		REMOVED 1949		
TA-3-45	SM-45		REMOVED 1964		
TA-3-46	SM-46	TANK, FINAL SETTLING	SEWAGE PLANT	13	I-5
TA-3-47	SM-47	TRICKLING FILTER	SEWAGE PLANT	13	I-5
TA-3-48	SM-48	TANK, DOSING	SEWAGE PLANT	13	I-5
TA-3-49	SM-49	TANK, IMHOFF	SEWAGE PLANT	13	H-5
TA-3-50	SM-50	INLET STRUCTURE	SEWAGE PLANT	13	H-5
TA-3-51	SM-51		REMOVED 1964		
TA-3-52	SM-52		REMOVED 1964		
TA-3-53	SM-53	GUARD HOUSE	RELOCATED TO TA-49-1		
TA-3-54	SM-54		CANCELLED		
TA-3-55	SM-55	GAS HOUSE		12	G-5
TA-3-56	SM-56	UNIT SUBSTATION		16	G-5
TA-3-57	SM-57	OIL PUMP HOUSE		12	G-4
TA-3-58	SM-58	COOLING TOWER		12	G-5
TA-3-59	SM-59	SEWAGE LIFT STATION	SANITARY	14	E-2
TA-3-60	SM-60		REMOVED 1955		
TA-3-61	SM-61		REMOVED 1955		
TA-3-62	SM-62		REMOVED 1960		
TA-3-63	SM-63		REMOVED 1967		
TA-3-64	SM-64		REMOVED 1967		
TA-3-65	SM-65	SOURCE STORAGE BLDG		11	F-9
TA-3-66	SM-66	SIGMA BUILDING		13	H-7
TA-3-67	SM-67	GUARD HOUSE		13	H-7
TA-3-68	SM-68		REMOVED 1955		
TA-3-69	SM-69	UNIT SUBSTATION		16	G-5
TA-3-70	SM-70	OFFICE BUILDING	BATCH PLANT	12	H-3
TA-3-71	SM-71	STORAGE BUILDING	BATCH PLANT	12	G-3
TA-3-72	SM-72	BULKHEAD GRAVEL	BATCH PLANT	12	G-3
TA-3-73	SM-73	ASPHALTIC CONC PLANT	BATCH PLANT	12	G-3
TA-3-74	SM-74		REMOVED 1961		
TA-3-75	SM-75	TANK, ASPHALT 20,000 GAL	BATCH PLANT	12	G-3
TA-3-76	SM-76	TANK, ASPHALT 20,000 GAL	BATCH PLANT	12	G-3
TA-3-77	SM-77		REMOVED 1980		
TA-3-78	SM-78	TRUCK SCALE	BATCH PLANT	12	G-3

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-79	SM-79	TANK, SEPTIC	BATCH PLANT	16	G-3
TA-3-80	SM-80	TRANSFORMER STATION	BATCH PLANT	16	G-3
TA-3-81	SM-81	SUBSTATION		14	E-2
TA-3-82	SM-82		REMOVED 1973		
TA-3-83	SM-83		REMOVED 1953		
TA-3-84	SM-84	GUARD HOUSE		11	F-7
TA-3-85	SM-85	MANHOLE, GAS		17	G-7
TA-3-86	SM-86	SUBSTATION		17	G-7
TA-3-87	SM-87	SWITCHGEAR STATION		17	G-6
TA-3-88	SM-88	SUBSTATION		17	G-6
TA-3-89	SM-89	GUARD HOUSE	REMOVED 1984		
TA-3-90	SM-90	MANHOLE, GAS		16	G-2
TA-3-91	SM-91	MANHOLE, WATER		15	G-2
TA-3-92	SM-92	MANHOLE, SANITARY		16	F-2
TA-3-93	SM-93		REMOVED 1966		
TA-3-94	SM-94	MANHOLE, WATER		14	B-4
TA-3-95	SM-95	MANHOLE, WATER		14	A-4
TA-3-96	SM-96		REMOVED 1963		
TA-3-97	SM-97	GUARD HOUSE		11	D-5
TA-3-98	SM-98	ROAD BLOCK	RELOCATED TO TA-15-209		
TA-3-99	SM-99		REMOVED 1965		
TA-3-100	SM-100	OFFICE BLDG.		10	C-4
TA-3-101	SM-101		REMOVED 1980		
TA-3-102	SM-102	TECH SHOPS ADDITION		11	D-7
TA-3-103	SM-103	RETAINING WALL		13	G-6
TA-3-104	SM-104	SUBSTATION		16	G-7
TA-3-105	SM-105	SHERWOOD BUILDING		10	D-4
TA-3-106	SM-106	PASSAGEWAY	INCORPORATED [illegible] SM-105		
TA-3-107	SM-107	TANK, OIL UNDERGROUND	ABANDONED IN PLACE 1978		
TA-3-108	SM-108	TANK, OIL UNDERGROUND	ABANDONED IN PLACE 1978		
TA-3-109	SM-109	TANK, OIL UNDERGROUND	ABANDONED IN PLACE 1978		
TA-3-110	SM-110	STORAGE RACK		13	G-6
TA-3-111	SM-111	MANHOLE, WATER		15	D-5
TA-3-112	SM-112	MANHOLE, WATER		15	E-6
TA-3-113	SM-113	MANHOLE, WATER		15	E-6
TA-3-114	SM-114	MANHOLE, WATER		15	F-6
TA-3-115	SM-115	MANHOLE, WATER		15	E-6
TA-3-116	SM-116	MANHOLE, WATER		15	E-7
TA-3-117	SM-117	MANHOLE, WATER		15	F-7
TA-3-118	SM-118	MANHOLE, WATER		15	E-7
TA-3-119	SM-119	MANHOLE, WATER		15	E-7
TA-3-120	SM-120	MANHOLE, WATER		15	E-7
TA-3-121	SM-121	MANHOLE, GAS		15	F-6
TA-3-122	SM-122	SUBSTATION		10	D-4
TA-3-123	SM-123	OFFICE BUILDING		10	F-4
TA-3-124	SM-124		CANCELLED		
TA-3-125	SM-125		CANCELLED		
TA-3-126	SM-126		CANCELLED		
TA-3-127	SM-127	COOLING TOWER		13	I-7
TA-3-128	SM-128	PASSAGEWAY	SM-39 TO SM-102	11	D-7
TA-3-129	SM-129		REMOVED 1971		
TA-3-130	SM-130	CALIBRATION BUILDING		13	F-9
TA-3-131	SM-131		REMOVED 1957		
TA-3-132	SM-132	COMPUTER BUILDING		10	E-4
TA-3-133	SM-133		CANCELLED		
TA-3-134	SM-134		CANCELLED		
TA-3-135	SM-135		CANCELLED		
TA-3-136	SM-136		CANCELLED		
TA-3-137	SM-137		CANCELLED		
TA-3-138	SM-138		CANCELLED		
TA-3-139	SM-139		REMOVED 1970		
TA-3-140	SM-140	MANHOLE GAS		14	D-5
TA-3-141	SM-141	ROLLING MILL BUILDING		13	I-7
TA-3-142	SM-142	WAREHOUSE		10	A-3
TA-3-143	SM-143		CANCELLED		
TA-3-144	SM-144	SUBSTATION		16	G-4
TA-3-145	SM-145	SWITCHGEAR STATION		17	H-7
TA-3-146	SM-146	SUBSTATION		17	I-7
TA-3-147	SM-147	AIR PLENUM & FAN BLDG		13	I-7
TA-3-148	SM-148	MANHOLE, OIL SUMP	ABANDONED IN PLACE 1978	14	D-4
TA-3-149	SM-149	SWITCHGEAR STATION		15	D-5
TA-3-150	SM-150		REMOVED 1963		
TA-3-151	SM-151	VALVE BOX, WATER		17	G-6
TA-3-152	SM-152		CANCELLED		
TA-3-153	SM-153		CANCELLED		
TA-3-154	SM-154	HOT WASTE PUMP HOUSE		11	E-7
TA-3-155	SM-155	DOCK		13	G-6
TA-3-156	SM-156	COOLING TOWER		10	D-4

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-157	SM-157		REMOVED 1984		
TA-3-158	SM-158	GAS MANIFOLD PLATFORM		13	I-7
TA-3-159	SM-159	FORMING BUILDING		13	I-7
TA-3-160	SM-160	FIRING POINT		13	I-7
TA-3-161	SM-161	MAGAZINE		13	I-7
TA-3-162	SM-162	MANIFOLD		13	G-6
TA-3-163	SM-163	PUMP HOUSE		10	D-4
TA-3-164	SM-164	SHOP STORAGE BUILDING		11	D-7
TA-3-165	SM-165	CONVERTER BUILDING		13	G-6
TA-3-166	SM-166	EFFLUENT PUMP PIT		13	I-5
TA-3-167	SM-167	SHIELD WALL		13	F-9
TA-3-168	SM-168		REMOVED 1982		
TA-3-169	SM-169	WAREHOUSE		13	I-7
TA-3-170	SM-170	LIQUID & COMPR GAS FAC		13	I-6
TA-3-171	SM-171		REMOVED 1982		
TA-3-172	SM-172		REMOVED 1983		
TA-3-173	SM-173		CANCELLED		
TA-3-174	SM-174	PUMP PIT, PROCESS WATER		13	I-7
TA-3-175	SM-175	MANIFOLD, GAS		13	I-7
TA-3-176	SM-176	SUBSTATION		17	I-7
TA-3-177	SM-177	STORAGE BUILDING	FORMERLY TA-10-20	11	F-9
TA-3-178	SM-178	TANK, ASPHALT 30,000 GAL	FORMERLY TA-49-66	12	G-3
TA-3-179	SM-179	STORAGE SHED		12	H-3
TA-3-180	SM-180	STAIRWAY		13	G-6
TA-3-181	SM-181	MANIFOLD		15	E-7
TA-3-182	SM-182	MANHOLE, WATER		17	H-6
TA-3-183	SM-183		REMOVED 1976		
TA-3-184	SM-184	OCCUPATIONAL HEALTH LAB	RENUMBERED TA-59-1		
TA-3-185	SM-185	MANIFOLD		13	H-7
TA-3-186	SM-186	MANIFOLD		13	H-7
TA-3-187	SM-187	COOLING TOWER		13	G-7
TA-3-188	SM-188	MANHOLE, SPRINKLER VALVE		17	I-7
TA-3-189	SM-189	MANIFOLD		11	C-9
TA-3-190	SM-190	SUBSTATION		11	C-8
TA-3-191	SM-191	TANK, FUEL		11	C-9
TA-3-192	SM-192	TANK, IMHOFF		13	I-5
TA-3-193	SM-193	TANK, DOSING		13	I-5
TA-3-194	SM-194	TRICKLING FILTER		13	I-5
TA-3-195	SM-195	SECONDARY CLARIFIER		13	I-5
TA-3-196	SM-196	SLUDGE DRYING BED		13	I-5
TA-3-197	SM-197	SLUDGE DRYING BED		13	I-5
TA-3-198	SM-198	SLUDGE DRYING BED		13	I-5
TA-3-199	SM-199	SLUDGE DRYING BED		13	I-5
TA-3-200	SM-200	OFFICE BUILDING		10	E-4

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FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
(1 OF 8)

REV.	DATE	REVISION	BY	CKD.	APP.
27	11-20-86	REVISED TO STATUS OF 11-17-86	NB		
26	9-27-83	REDRAWN & REVISED TO STATUS OF 6-15-83	ROS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION — CLASS. / REVIEWER / DATE

SUBMITTED / RECOMMENDED / APPROVED

DRAWN: ROS | CHECKED | DATE: 9-27-83 | SHEET NO. 1 OF 17 | DRAWING NO. ENG-R5103

301215 02 01 B9

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO.	MAP KEY
TA-3-201	SM-201		REMOVED 1965		
TA-3-202	SM-202	PASSAGEWAY	SM-132 TO SM-200	10	E-4
TA-3-203	SM-203	PASSAGEWAY	SM-123 TO SM-200	10	F-4
TA-3-204	SM-204	FIELD OFFICE	RELOCATED TO TA-0-194		
TA-3-205	SM-205	MANIFOLD		13	H-7
TA-3-206	SM-206	EQUIPMENT BUILDING		11	C-6
TA-3-207	SM-207	J. ROBERT OPPENHEIMER STUDY CENTER		10	E-3
TA-3-208	SM-208	EQUIPMENT BUILDING		11	C-8
TA-3-209	SM-209		REMOVED 1982		
TA-3-210	SM-210		CANCELLED		
TA-3-211	SM-211	RETAINING WALL		12	G-3
TA-3-212	SM-212	TANK, CEMENT SILO	BATCH PLANT	12	G-3
TA-3-213	SM-213	RETAINING WALL	BATCH PLANT	11	D-9
TA-3-214	SM-214	PASSAGEWAY	SM-40 TO SM-215	11	B-6
TA-3-215	SM-215	PHYSICS ANALYTICAL CENTER		11	B-6
TA-3-216	SM-216	WEAPONS TEST SUPPORT FAC		11	E-5
TA-3-217	SM-217	FLAGPOLE		10	D-4
TA-3-218	SM-218	MAGNETIC ENERGY&STORAGE		11	C-6
TA-3-219	SM-219	HIGH FREQUENCY RADIO FAC	ABANDONED 1980		
TA-3-220	SM-220	MANHOLE, GAS		16	G-5
TA-3-221	SM-221	PASSAGEWAY	SM-43 TO SM-200	10	E-4
TA-3-222	SM-222	PASSAGEWAY	SM-43 TO SM-207	10	E-4
TA-3-223	SM-223	UTILITIES CONTROL CENTER		13	H-5
TA-3-224	SM-224	STORAGE SHED		10	B-4
TA-3-225	SM-225	STORAGE SHED		12	G-3
TA-3-226	SM-226	GREENHOUSE		12	H-3
TA-3-227	SM-227	PIPE TRENCH		15	C-6
TA-3-228	SM-228	SERVICE SUPPORT BLDG		11	C-6
TA-3-229	SM-229	SUBSTATION		15	C-6
TA-3-230	SM-230	RELAY BUILDING		12	G-4
TA-3-231	SM-231	RADIO TOWER		12	G-4
TA-3-232	SM-232	SUBSTATION, 115 KV		16	G-4
TA-3-233	SM-233	SUBSTATION, 115 KV		16	G-4
TA-3-234	SM-234		REMOVED 1972		
TA-3-235	SM-235	WAREHOUSE BUILDING		12	H-2
TA-3-236	SM-236	STORAGE BUILDING		12	H-3
TA-3-237	SM-237	TANK, FUEL	RENUMBERED TA-59-6		
TA-3-238	SM-238	COOLING TOWER	RENUMBERED TA-59-10		
TA-3-239	SM-239	TANK, SEPTIC	RENUMBERED TA-59-4		
TA-3-240	SM-240	DISTRIBUTION BOX	RENUMBERED TA-59-5		
TA-3-241	SM-241	MANHOLE, WATER		15	F-7
TA-3-242	SM-242	MANHOLE, EFFLUENT		16	G-5
TA-3-243	SM-243		REMOVED 1981		
TA-3-244	SM-244	TEST HOLE		10	B-2
TA-3-245	SM-245	TEST HOLE		10	B-2
TA-3-246	SM-246	CONTROL BUILDING, CABLE		10	B-3
TA-3-247	SM-247	RAM BUILDING		10	B-3
TA-3-248	SM-248		REMOVED 1974		
TA-3-249	SM-249		REMOVED 1981		
TA-3-250	SM-250	SUBSTATION, STREET LTG		16	F-3
TA-3-251	SM-251	VALVE HOUSE, WATER		12	G-5
TA-3-252	SM-252	CABLE STORAGE SHED		10	D-4
TA-3-253	SM-253	ELECTRON PROTOTYPE LAB		11	C-6
TA-3-254	SM-254	PASSAGEWAY	SM-208 TO SM-253	11	C-6
TA-3-255	SM-255	OFFICE BUILDING		11	C-6
TA-3-256	SM-256	TRNSFORMER RECTIFIER PAD		15	C-6
TA-3-257	SM-257	OFFICE BUILDING	RELOCATED TO TA-53-44		
TA-3-258	SM-258	OFFICE BUILDING	RELOCATED TO TA-53-45		
TA-3-259	SM-259	OFFICE BUILDING	RELOCATED TO TA-53-46		
TA-3-260	SM-260	OFFICE BUILDING	RELOCATED TO TA-53-47		
TA-3-261	SM-261	OTDWI BUILDING		10	D-3
TA-3-262	SM-262				
TA-3-263	SM-263				
TA-3-264	SM-264				
TA-3-265	SM-265	SEWAGE LIFT STATION		17	H-5
TA-3-266	SM-266	TANK, WATER	RENUMBERED TA-59-14		
TA-3-267	SM-267	FILL VALVE BOX, WATER	RENUMBERED TA-59-15		
TA-3-268	SM-268	PUMPING STATION	RENUMBERED TA-0-1157		
TA-3-269	SM-269	UNIT SUBSTATION	RENUMBERED TA-0-1158		
TA-3-270	SM-270	TANK, WATER	RENUMBERED TA-0-1159		
TA-3-271	SM-271	SALVAGE & SURPLUS BLDG		12	I-3
TA-3-272	SM-272	TANK, SEPTIC		16	I-3
TA-3-273	SM-273		CANCELLED		
TA-3-274	SM-274		REMOVED 1976		
TA-3-275	SM-275		REMOVED 1976		
TA-3-276	SM-276		REMOVED 1976		
TA-3-277	SM-277	STORAGE BLDG		13	G-6
TA-3-278	SM-278	MANIFOLD		13	H-6

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO.	MAP KEY
TA-3-279	SM-279		REMOVED 1967		
TA-3-280	SM-280	MANHOLE, GAS		16	G-2
TA-3-281	SM-281	MANHOLE, WATER		15	C-5
TA-3-282	SM-282	SHOP BLDG		12	I-2
TA-3-283	SM-283		CANCELLED		
TA-3-284	SM-284		REMOVED 1967		
TA-3-285	SM-285	TOWER, COOLING		12	H-5
TA-3-286	SM-286		REMOVED 1977		
TA-3-287	SM-287	LAB & OFFICE BLDG		10	D-4
TA-3-288	SM-288	PASSAGEWAY	SM-43 TO SM-287	10	D-4
TA-3-289	SM-289		REMOVED 1981		
TA-3-290	SM-290	TRANSFORMER STATION	PAD MOUNTED	14	D-4
TA-3-291	SM-291	TRANSFORMER STATION	NE. OF SM-257		
TA-3-292	SM-292	TRANSFORMER STATION	POLE MOUNTED	16	I-2
TA-3-293	SM-293	TRANSFORMER STATION	POLE MOUNTED	16	H-2
TA-3-294	SM-294	TRANSFORMER STATION	POLE MOUNTED	16	H-2
TA-3-295	SM-295		REMOVED 1969		
TA-3-296	SM-296	TRANSFORMER STATION	POLE MOUNTED	14	F-2
TA-3-297	SM-297	TRANSFORMER STATION	POLE MOUNTED	14	D-2
TA-3-298	SM-298	TRANSFORMER STATION	POLE MOUNTED	14	A-3
TA-3-299	SM-299	TRANSFORMER STATION	POLE MOUNTED	16	F-3
TA-3-300	SM-300		REMOVED 1969		
TA-3-301	SM-301	TRANSFORMER STATION	POLE MOUNTED	17	H-5
TA-3-302	SM-302	TRANSFORMER STATION	POLE MOUNTED	17	I-5
TA-3-303	SM-303	TRANSFORMER STATION	POLE MOUNTED	15	F-9
TA-3-304	SM-304	TRANSFORMER STATION	POLE MOUNTED	17	G-9
TA-3-305	SM-305	TRANSFORMER STATION	POLE MOUNTED	17	G-9
TA-3-306	SM-306	TRANSFORMER STATION	RENUMBERED TA-59-5		
TA-3-307	SM-307	TRANSFORMER STATION	E. OF SM-381		
TA-3-308	SM-308		CANCELLED		
TA-3-309	SM-309		CANCELLED		
TA-3-310	SM-310		CANCELLED		
TA-3-311	SM-311		CANCELLED		
TA-3-312	SM-312		CANCELLED		
TA-3-313	SM-313		CANCELLED		
TA-3-314	SM-314		CANCELLED		
TA-3-315	SM-315		CANCELLED		
TA-3-316	SM-316	HIGH VOLTAGE TEST FAC		11	E-9
TA-3-317	SM-317	GRAPHITE FLOUR STOR BLDG		13	I-7
TA-3-318	SM-318	TANK, FUEL	ABANDONED 1980		
TA-3-319	SM-319	MANHOLE, WATER		16	G-5
TA-3-320	SM-320	MANHOLE, WATER	RENUMBERED TA-59-13		
TA-3-321	SM-321		CANCELLED		
TA-3-322	SM-322	SUPPLY BUILDING		11	C-6
TA-3-323	SM-323		CANCELLED		
TA-3-324	SM-324	MANIFOLD		11	D-6
TA-3-325	SM-325	MANHOLE, WATER		16	H-5
TA-3-326	SM-326	MANHOLE, WATER		16	H-5
TA-3-327	SM-327	MOTOR CONTROL CENTER PAD		12	H-5
TA-3-328	SM-328	POWER CENTER	REMOVED 1984		
TA-3-329	SM-329	HOSE HOUSE		13	G-6
TA-3-330	SM-330		REMOVED 1976		
TA-3-331	SM-331	PASSAGEWAY	SM-200 TO SM-332	10	E-5
TA-3-332	SM-332	OFFICE BLDG		10	E-5
TA-3-333	SM-333	STORAGE SHED	NOT SHOWN		
TA-3-334	SM-334	EQUIPMENT SHELTER		13	I-5
TA-3-335	SM-335	TANK STORAGE, ASPHALT		12	G-3
TA-3-336	SM-336	TANK STORAGE, EFFLUENT		12	H-5
TA-3-337	SM-337	TRANSFORMER STATION	POLE MOUNTED	16	H-3
TA-3-338	SM-338		REMOVED 1981		
TA-3-339	SM-339	MANHOLE, ELECTRICAL	NOT SHOWN		
TA-3-340	SM-340	EQUIPMENT PAD		10	D-4
TA-3-341	SM-341		REMOVED 1980		
TA-3-342	SM-342		REMOVED 1980		
TA-3-343	SM-343		REMOVED 1980		
TA-3-344	SM-344		REMOVED 1980		
TA-3-345	SM-345		REMOVED 1980		
TA-3-346	SM-346	UNIT SUBSTATION		15	E-9
TA-3-347	SM-347		CANCELLED		
TA-3-348	SM-348		CANCELLED		
TA-3-349	SM-349		CANCELLED		
TA-3-350	SM-350		CANCELLED		
TA-3-351	SM-351		REMOVED 1964		
TA-3-352	SM-352		CANCELLED		
TA-3-353	SM-353		CANCELLED		
TA-3-354	SM-354		CANCELLED		
TA-3-355	SM-355	TRANSFORMER STATION	POLE MOUNTED	16	I-2
TA-3-356	SM-356	TRANSFORMER STATION	POLE MOUNTED	16	J-3

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO.	MAP KEY
TA-3-357	SM-357	TRANSFORMER STATION	POLE MOUNTED	16	K-3
TA-3-358	SM-358		CANCELLED		
TA-3-359	SM-359		REMOVED 1972		
TA-3-360	SM-360		CANCELLED		
TA-3-361	SM-361	GAS METERING STATION		17	E-9
TA-3-362	SM-362		CANCELLED		
TA-3-363	SM-363	MANHOLE, WATER		16	G-5
TA-3-364	SM-364	MANIFOLD	REMOVED 1984		
TA-3-365	SM-365	MANHOLE, WATER ARV		15	B-7
TA-3-366	SM-366	TRANSFORMER PAD ISOLATN	PAD MOUNTED	16	F-4
TA-3-367	SM-367	UNIT SUBSTATION		15	E-6
TA-3-368	SM-368		REMOVED 1980		
TA-3-369	SM-369	RETAINING WALL		11	E-6
TA-3-370	SM-370		REMOVED 1984		
TA-3-371	SM-371	RETAINING WALL		10	D-4
TA-3-372	SM-372	RETAINING WALL		10	D-4
TA-3-373	SM-373	GUARD STATION		11	D-5
TA-3-374	SM-374	DRUM STORAGE SHED		10	A-5
TA-3-375	SM-375		CANCELLED		
TA-3-376	SM-376		REMOVED 1984		
TA-3-377	SM-377	SUBSTATION	RENUMBERED TA-59-7		
TA-3-378	SM-378		CANCELLED		
TA-3-379	SM-379	LEAD POURG&PAINT STO FAC		10	B-3
TA-3-380	SM-380		CANCELLED		
TA-3-381	SM-381	WAREHOUSE		13	K-7
TA-3-382	SM-382	MOBILE EQUIP REPAIR SHOP		13	J-7
TA-3-383	SM-383	STORAGE BUILDING		13	K-7
TA-3-384	SM-384	CAPACITOR STATION		15	D-6
TA-3-385	SM-385		REMOVED 1978		
TA-3-386	SM-386	GUARD STATION		11	E-8
TA-3-387	SM-387		CANCELLED		
TA-3-388	SM-388	MANHOLE, WATER		14	E-4
TA-3-389	SM-389		CANCELLED		
TA-3-390	SM-390	MODULAR OFFICE BUILDING		11	E-5
TA-3-391	SM-391	MODULAR OFFICE BUILDING		11	E-6
TA-3-392	SM-392		CANCELLED		
TA-3-393	SM-393		CANCELLED		
TA-3-394	SM-394		CANCELLED		
TA-3-395	SM-395		CANCELLED		
TA-3-396	SM-396		CANCELLED		
TA-3-397	SM-397		CANCELLED		
TA-3-398	SM-398		CANCELLED		
TA-3-399	SM-399		CANCELLED		
TA-3-400	SM-400	MODULAR OFFICE BUILDING		10	C-4

FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
(2 OF 8)

REV.	DATE	REVISION	BY	CKD.	APP.
MF 28	1-21-86	REVISED TO STATUS OF 1-17-86	NB		
MF 27	12-9-83	REDRAWN & REVISED TO STATUS OF 6-15-83	ROS		

UNIVERSITY OF CALIFORNIA
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FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN

SEC. CLASSIFICATION: CLASS. U
REVIEWER
DATE 12-4-83

SUBMITTED
DRAWN ROS
CHECKED
RECOMMENDED
DATE 12-9-83
SHEET NO. 2 OF 17
APPROVED
DRAWING NO. ENG-R5103

REC'D LOGGED TO VAULT

UNCLASSIFIED

301215 02 01 B10

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-401	SM-401	MODULAR OFFICE BUILDING		10	C-4
TA-3-402	SM-402	MODULAR OFFICE BUILDING		10	D-4
TA-3-403	SM-403	MODULAR OFFICE BUILDING		10	D-3
TA-3-404	SM-404	OFFICE BUILDING	RELOCATED TO TA-53-43		
TA-3-405	SM-405		CANCELLED		
TA-3-406	SM-406	MODULAR OFFICE BUILDING		11	C-5
TA-3-407	SM-407		CANCELLED		
TA-3-408	SM-408		CANCELLED		
TA-3-409	SM-409	OCC MEDICAL FACILITY		11	C-5
TA-3-410	SM-410	OFFICE FACILITY		11	F-5
TA-3-411	SM-411		CANCELLED		
TA-3-412	SM-412	SUMP&LIFT STA INSTALLATN	RENUMBERED TA-59-8		
TA-3-413	SM-413		CANCELLED		
TA-3-414	SM-414		CANCELLED		
TA-3-415	SM-415		CANCELLED		
TA-3-416	SM-416		CANCELLED		
TA-3-417	SM-417		CANCELLED		
TA-3-418	SM-418		CANCELLED		
TA-3-419	SM-419		CANCELLED		
TA-3-420	SM-420	CONSTRUCTN OFFICE SHACK	RELOCATED TO TA-0-1002		
TA-3-421	SM-421		REMOVED 1980		
TA-3-422	SM-422	GENERAL OFFICE BUILDING		11	D-5
TA-3-423	SM-423		REMOVED 1980		
TA-3-424	SM-424	GUARD STATION		11	F-7
TA-3-425	SM-425	ZIA OFFICE BUILDING		10	C-4
TA-3-426	SM-426		CANCELLED		
TA-3-427	SM-427	MANHOLE, WATER		15	E-6
TA-3-428	SM-428	POWER PEDESTAL, ELEC		14	D-4
TA-3-429	SM-429	SMES FACILITY		13	G-6
TA-3-430	SM-430		CANCELLED		
TA-3-431	SM-431	TRANSFORMER STATION	POLE MOUNTED	16	H-3
TA-3-432	SM-432	SUBSTATION		17	G-6
TA-3-433	SM-433	MODULAR OFFICE BUILDING	RENUMBERED TA-59-2		
TA-3-434	SM-434	MANHOLE, SEWER	NOT SHOWN		
TA-3-435	SM-435	MANHOLE, SEWER		14	F-4
TA-3-436	SM-436	MANHOLE, STEAM		14	F-4
TA-3-437	SM-437	MANHOLE, STEAM		14	E-4
TA-3-438	SM-438	TRANSFORMER STATION	RENUMBERED TA-59-52		
TA-3-439	SM-439	OFFICE BLDG	RENUMBERED TA-59-3		
TA-3-440	SM-440	CENTRAL ALARM STATION		11	E-8
TA-3-441	SM-441		CANCELLED		
TA-3-442	SM-442	MANHOLE, SANITARY		15	C-6
TA-3-443	SM-443	UNIVERSITY HOUSE		10	F-3
TA-3-444	SM-444	ELECTRICAL POWER FEEDER		15	C-6
TA-3-445	SM-445	TRANSFORMER STATION	RENUMBERED TA-59-16		
TA-3-446	SM-446	STORAGE SHED		13	K-7
TA-3-447	SM-447	NTS TOWER		10	B-2
TA-3-448	SM-448		CANCELLED		
TA-3-449	SM-449		CANCELLED		
TA-3-450	SM-450		CANCELLED		
TA-3-451	SM-451	MICRO MACHINING FACILITY		13	H-7
TA-3-452	SM-452	CREDIT UNION BRANCH		10	D-4
TA-3-453	SM-453		CANCELLED		
TA-3-454	SM-454		CANCELLED		
TA-3-455	SM-455		CANCELLED		
TA-3-456	SM-456	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-[illegible]4	11	E-6
TA-3-457	SM-457				
TA-3-458	SM-458				
TA-3-459	SM-459				
TA-3-460	SM-460	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-[illegible]	11	B-6
TA-3-461	SM-461	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-[illegible]	11	B-7
TA-3-462	SM-462	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1180	11	B-6
TA-3-463	SM-463	TRANSPORTABLE OFF BLDG		10	A-4
TA-3-464	SM-464		REMOVED 1984		
TA-3-465	SM-465				
TA-3-466	SM-466	GUARD STATION	STATION #303	11	D-8
TA-3-467	SM-467	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1192	11	C-6
TA-3-468	SM-468	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1196	11	D-8
TA-3-469	SM-469	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1191	10	E-5
TA-3-470	SM-470	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1204	11	D-8
TA-3-471	SM-471	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1213	10	E-5
TA-3-472	SM-472	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1215	11	C-7
TA-3-473	SM-473	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1216	11	B-7
TA-3-474	SM-474	TRANSPORTABLE OFF BLDG	FORMERLY TA-0-1217	11	E-8
TA-3-475	SM-475				
TA-3-476	SM-476	STORAGE BLDG.	FORMERLY TA-0-431	13	I-6
TA-3-477	SM-477	STORAGE SHED	FORMERLY TA-0-463	11	E-9
TA-3-478	SM-478	STORAGE SHED	FORMERLY TA-0-467	12	H-3

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO.	MAP KEY
TA-3-479	SM-479	STORAGE SHED	FORMERLY TA-0-468	12	H-3
TA-3-480	SM-480	TRANSPORTABLE OFFICE BLDG		13	F-6
TA-3-481	SM-481	TRANSPORTABLE OFFICE BLDG		13	F-5
TA-3-482	SM-482	TRANSPORTABLE OFFICE BLDG		13	G-5
TA-3-483	SM-483	TRANSPORTABLE OFFICE BLDG		13	G-5
TA-3-484	SM-484	TRANSPORTAINER	FORMERLY TA-0-1189	10	E-4
TA-3-485	SM-485	TRANSPORTAINER	FORMERLY TA-0-1190	10	E-4
TA-3-486	SM-486				
TA-3-487	SM-487				
TA-3-488	SM-488				
TA-3-489	SM-489				
TA-3-490	SM-490	RECEPTION CENTER		10	D-4
TA-3-491	SM-491				
TA-3-492	SM-492	RETAINING WALL	LANL PLAQUE	10	F-2
TA-3-493	SM-493				
TA-3-494	SM-494	GEOCHEMISTRY ANAL FAC		11	B-6
TA-3-495	SM-495	TRANSPORTABLE OFF BLDG.		11	E-8
TA-3-496	SM-496	TRANSPORTABLE OFF BLDG		11	E-8
TA-3-497	SM-497	TRANSPORTABLE OFF BLDG		11	C-7
TA-3-498	SM-498				
TA-3-499	SM-499				
TA-3-500	SM-500	TRAILER, OFFICE		13	H-6
TA-3-501	SM-501				
TA-3-502	SM-502				
TA-3-503	SM-503				
TA-3-504	SM-504				
TA-3-505	SM-505				
TA-3-506	SM-506				
TA-3-507	SM-507				
TA-3-508	SM-508				
TA-3-509	SM-509				
TA-3-510	SM-510				
TA-3-511	SM-511				
TA-3-512	SM-512				
TA-3-513	SM-513				
TA-3-514	SM-514				
TA-3-515	SM-515				
TA-3-516	SM-516				
TA-3-517	SM-517				
TA-3-518	SM-518				
TA-3-519	SM-519				
TA-3-520	SM-520				
TA-3-521	SM-521				
TA-3-522	SM-522				
TA-3-523	SM-523				
TA-3-524	SM-524				
TA-3-525	SM-525				
TA-3-526	SM-526				
TA-3-527	SM-527				
TA-3-528	SM-528				
TA-3-529	SM-529				
TA-3-530	SM-530				
TA-3-531	SM-531				
TA-3-532	SM-532				
TA-3-533	SM-533				
TA-3-534	SM-534				
TA-3-535	SM-535				
TA-3-536	SM-536				
TA-3-537	SM-537				
TA-3-538	SM-538				
TA-3-539	SM-539				
TA-3-540	SM-540				
TA-3-541	SM-541				
TA-3-542	SM-542				
TA-3-543	SM-543				
TA-3-544	SM-544				
TA-3-545	SM-545				
TA-3-546	SM-546				
TA-3-547	SM-547				
TA-3-548	SM-548				
TA-3-549	SM-549				
TA-3-550	SM-550	OIL CONTAINMENT PIT		15	E-9
TA-3-551	SM-551				
TA-3-552	SM-552				
TA-3-553	SM-553				
TA-3-554	SM-554				
TA-3-555	SM-555				
TA-3-556	SM-556				

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO.	MAP KEY
TA-3-557	SM-557				
TA-3-558	SM-558				
TA-3-559	SM-559				
TA-3-560	SM-560				
TA-3-561	SM-561				
TA-3-562	SM-562				
TA-3-563	SM-563				
TA-3-564	SM-564				
TA-3-565	SM-565				
TA-3-566	SM-566				
TA-3-567	SM-567				
TA-3-568	SM-568				
TA-3-569	SM-569				
TA-3-570	SM-570				
TA-3-571	SM-571				
TA-3-572	SM-572				
TA-3-573	SM-573				
TA-3-574	SM-574				
TA-3-575	SM-575				
TA-3-576	SM-576				
TA-3-577	SM-577				
TA-3-578	SM-578				
TA-3-579	SM-579				
TA-3-580	SM-580				
TA-3-581	SM-581				
TA-3-582	SM-582				
TA-3-583	SM-583				
TA-3-584	SM-584				
TA-3-585	SM-585				
TA-3-586	SM-586				
TA-3-587	SM-587				
TA-3-588	SM-588				
TA-3-589	SM-589				
TA-3-590	SM-590				
TA-3-591	SM-591				
TA-3-592	SM-592				
TA-3-593	SM-593				
TA-3-594	SM-594				
TA-3-595	SM-595				
TA-3-596	SM-596				
TA-3-597	SM-597				
TA-3-598	SM-598				
TA-3-599	SM-599				
TA-3-600	SM-600	MANHOLE, SANITARY		17	I-5

FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
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REV.	DATE	REVISION	BY	DES.	APP.
24	1-22-86	REVISED TO STATUS OF 1-17-86	NB		
24	9-27-83	REDRAWN & REVISED TO STATUS OF 6-15-83	HS		

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INDEX SHEET
STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 12-16-83

SUBMITTED
RECOMMENDED
APPROVED

DRAWN ACS
CHECKED
DATE 9-27-83
SHEET NO. 3 OF 17
DRAWING NO. ENG-R5103

DECLASSIFIED

301215 02 01 B11

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-601	SM-601	MANHOLE, SANITARY		17	I - 5
TA-3-602	SM-602	MANHOLE, SANITARY		17	H - 5
TA-3-603	SM-603	MANHOLE, SANITARY		17	H - 5
TA-3-604	SM-604	MANHOLE, SANITARY		17	H - 6
TA-3-605	SM-605	MANHOLE, SANITARY		17	H - 6
TA-3-606	SM-606	MANHOLE, SANITARY		17	G - 5
TA-3-607	SM-607		REMOVED 1984		
TA-3-608	SM-608	MANHOLE, SANITARY		17	G - 5
TA-3-609	SM-609	MANHOLE, SANITARY		17	G - 5
TA-3-610	SM-610	MANHOLE, SANITARY		17	F - 5
TA-3-611	SM-611	MANHOLE, SANITARY		15	F - 5
TA-3-612	SM-612	MANHOLE, SANITARY		15	F - 5
TA-3-613	SM-613	MANHOLE, SANITARY		15	F - 6
TA-3-614	SM-614	MANHOLE, SANITARY		15	E - 5
TA-3-615	SM-615	MANHOLE, SANITARY		14	E - 5
TA-3-616	SM-616	MANHOLE, SANITARY		14	E - 5
TA-3-617	SM-617	MANHOLE, SANITARY		15	E - 5
TA-3-618	SM-618	MANHOLE, SANITARY		15	D - 5
TA-3-619	SM-619	MANHOLE, SANITARY		15	D - 6
TA-3-620	SM-620	MANHOLE, SANITARY		15	D - 6
TA-3-621	SM-621	MANHOLE, SANITARY		14	D - 5
TA-3-622	SM-622		REMOVED 1961		
TA-3-623	SM-623		REMOVED 1961		
TA-3-624	SM-624	MANHOLE, SANITARY		14	D - 4
TA-3-625	SM-625	MANHOLE, SANITARY		14	C - 4
TA-3-626	SM-626	MANHOLE, SANITARY		14	C - 4
TA-3-627	SM-627	MANHOLE, SANITARY		14	B - 4
TA-3-628	SM-628	MANHOLE, SANITARY		14	B - 4
TA-3-629	SM-629	MANHOLE, SANITARY		14	B - 4
TA-3-630	SM-630	MANHOLE, SANITARY		14	A - 4
TA-3-631	SM-631	MANHOLE, SANITARY		14	A - 4
TA-3-632	SM-632		REMOVED 1980		
TA-3-633	SM-633		REMOVED 1980		
TA-3-634	SM-634	MANHOLE, SANITARY		14	D - 2
TA-3-635	SM-635	MANHOLE, SANITARY		15	F - 6
TA-3-636	SM-636	MANHOLE, SANITARY		15	E - 6
TA-3-637	SM-637	MANHOLE, SANITARY		15	E - 6
TA-3-638	SM-638	MANHOLE, SANITARY		15	E - 6
TA-3-639	SM-639	MANHOLE, SANITARY		15	F - 6
TA-3-640	SM-640	MANHOLE, SANITARY		15	E - 6
TA-3-641	SM-641	MANHOLE, SANITARY		15	F - 7
TA-3-642	SM-642	MANHOLE, SANITARY		15	E - 7
TA-3-643	SM-643	MANHOLE, SANITARY		15	E - 7
TA-3-644	SM-644	MANHOLE, SANITARY		15	F - 7
TA-3-645	SM-645	MANHOLE, SANITARY		15	E - 7
TA-3-646	SM-646	MANHOLE, SANITARY		15	E - 7
TA-3-647	SM-647	MANHOLE, SANITARY		15	E - 7
TA-3-648	SM-648	MANHOLE, SANITARY		15	F - 8
TA-3-649	SM-649	MANHOLE, SANITARY		15	E - 8
TA-3-650	SM-650	MANHOLE, SANITARY		15	D - 8
TA-3-651	SM-651	MANHOLE, SANITARY		15	D - 8
TA-3-652	SM-652		REMOVED 1964		
TA-3-653	SM-653	MANHOLE, SANITARY		15	D - 8
TA-3-654	SM-654	MANHOLE, SANITARY		15	C - 7
TA-3-655	SM-655	MANHOLE, SANITARY		15	C - 7
TA-3-656	SM-656	MANHOLE, SANITARY		15	C - 6
TA-3-657	SM-657	MANHOLE, SANITARY		15	C - 6
TA-3-658	SM-658	MANHOLE, SANITARY		15	C - 6
TA-3-659	SM-659	MANHOLE, SANITARY		15	C - 6
TA-3-660	SM-660	MANHOLE, SANITARY		15	C - 5
TA-3-661	SM-661	MANHOLE, SANITARY		15	C - 5
TA-3-662	SM-662	MANHOLE, SANITARY		15	B - 5
TA-3-663	SM-663	MANHOLE, SANITARY		17	H - 6
TA-3-664	SM-664	MANHOLE, SANITARY		17	G - 7
TA-3-665	SM-665	MANHOLE, SANITARY		17	G - 6
TA-3-666	SM-666	MANHOLE, SANITARY		17	G - 6
TA-3-667	SM-667	MANHOLE, SANITARY		14	D - 4
TA-3-668	SM-668	MANHOLE, GREASE TRAP		14	C - 4
TA-3-669	SM-669	MANHOLE, SANITARY		17	H - 6
TA-3-670	SM-670	MANHOLE, SANITARY		17	H - 7
TA-3-671	SM-671	MANHOLE, SANITARY		17	H - 7
TA-3-672	SM-672	MANHOLE, SANITARY		17	I - 7
TA-3-673	SM-673		REMOVED 1965		
TA-3-674	SM-674	MANHOLE, SANITARY		15	D - 9
TA-3-675	SM-675	ENTRANCE BOX, SANITARY		17	H - 5
TA-3-676	SM-676	JUNCTION BOX, SANITARY		17	H - 6
TA-3-677	SM-677	SPLITTER BOX, SANITARY		17	H - 5
TA-3-678	SM-678	JUNCTION BOX, SANITARY		17	H - 5

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-679	SM-679	JUNCTION BOX, SANITARY		17	I - 5
TA-3-680	SM-680	MANHOLE, SANITARY		14	F - 5
TA-3-681	SM-681	MANHOLE, SANITARY		14	F - 4
TA-3-682	SM-682	MANHOLE, SANITARY		14	E - 4
TA-3-683	SM-683	MANHOLE, DRAINAGE		16	G - 5
TA-3-684	SM-684	MANHOLE, SANITARY		15	B - 6
TA-3-685	SM-685	MANHOLE, SANITARY		15	C - 7
TA-3-686	SM-686	MANHOLE, SANITARY		14	D - 4
TA-3-687	SM-687	MANHOLE, SANITARY		14	D - 4
TA-3-688	SM-688	MANHOLE, SANITARY		14	D - 4
TA-3-689	SM-689	TANK, SEPTIC		16	I - 2
TA-3-690	SM-690	MANHOLE, SANITARY		16	H - 2
TA-3-691	SM-691	MANHOLE, SANITARY		16	H - 3
TA-3-692	SM-692	MANHOLE, SANITARY		16	H - 3
TA-3-693	SM-693	SEWAGE PUMP STATION		16	H - 4
TA-3-694	SM-694	MANHOLE, SANITARY		14	E - 4
TA-3-695	SM-695	MANHOLE, SANITARY		14	D - 3
TA-3-696	SM-696	MANHOLE, SANITARY		14	D - 3
TA-3-697	SM-697	MANHOLE, SANITARY		14	D - 3
TA-3-698	SM-698				
TA-3-699	SM-699				
TA-3-700	SM-700		REMOVED 1982		
TA-3-701	SM-701		REMOVED 1982		
TA-3-702	SM-702	MANHOLE, ACID	ABANDONED 1982	14	F - 2
TA-3-703	SM-703		REMOVED 1985		
TA-3-704	SM-704		REMOVED 1985		
TA-3-705	SM-705		REMOVED 1985		
TA-3-706	SM-706		REMOVED 1985		
TA-3-707	SM-707	MANHOLE, ACID	ABANDONED 1982	14	F - 5
TA-3-708	SM-708	MANHOLE, ACID	ABANDONED 1982	15	F - 5
TA-3-709	SM-709		REMOVED 1983		
TA-3-710	SM-710		REMOVED 1983		
TA-3-711	SM-711		REMOVED 1983		
TA-3-712	SM-712		REMOVED 1983		
TA-3-713	SM-713		REMOVED 1983		
TA-3-714	SM-714		REMOVED 1983		
TA-3-715	SM-715		REMOVED 1983		
TA-3-716	SM-716		REMOVED 1983		
TA-3-717	SM-717		REMOVED 1983		
TA-3-718	SM-718		REMOVED 1983		
TA-3-719	SM-719	MANHOLE, ACID	ABANDONED 1982	15	F - 6
TA-3-720	SM-720	MANHOLE, ACID	ABANDONED 1982	15	F - 6
TA-3-721	SM-721	MANHOLE, ACID	ABANDONED 1982	15	E - 6
TA-3-722	SM-722	MANHOLE, ACID	ABANDONED 1982	15	F - 7
TA-3-723	SM-723	MANHOLE, ACID	ABANDONED 1982	15	F - 7
TA-3-724	SM-724	MANHOLE, ACID	ABANDONED 1982	15	E - 7
TA-3-725	SM-725	MANHOLE, ACID	ABANDONED 1982	15	F - 7
TA-3-726	SM-726		REMOVED 1983		
TA-3-727	SM-727		REMOVED 1983		
TA-3-728	SM-728		REMOVED 1983		
TA-3-729	SM-729		REMOVED 1983		
TA-3-730	SM-730		REMOVED 1983		
TA-3-731	SM-731		CANCELLED		
TA-3-732	SM-732		REMOVED 1984		
TA-3-733	SM-733		REMOVED 1984		
TA-3-734	SM-734		REMOVED 1984		
TA-3-735	SM-735		REMOVED 1983		
TA-3-736	SM-736		REMOVED 1983		
TA-3-737	SM-737	MANHOLE, ACID	ABANDONED 1983	15	C - 9
TA-3-738	SM-738		REMOVED 1982		
TA-3-739	SM-739		REMOVED 1983		
TA-3-740	SM-740	MANHOLE, TELEPHONE		15	F - 9
TA-3-741	SM-741		CANCELLED		
TA-3-742	SM-742	MANHOLE, SANITARY		14	E - 3
TA-3-743	SM-743		CANCELLED		
TA-3-744	SM-744		CANCELLED		
TA-3-745	SM-745		CANCELLED		
TA-3-746	SM-746		CANCELLED		
TA-3-747	SM-747				
TA-3-748	SM-748	MANHOLE, ACID		15	D - 8
TA-3-749	SM-749	MANHOLE, ACID		15	E - 8
TA-3-750	SM-750	MANHOLE, ACID		15	F - 8
TA-3-751	SM-751				
TA-3-752	SM-752				
TA-3-753	SM-753	MANHOLE, ACID		15	F - 7
TA-3-754	SM-754	MANHOLE, ACID		15	F - 7
TA-3-755	SM-755	MANHOLE, ACID		17	F - 7
TA-3-756	SM-756	MANHOLE, ACID		15	F - 9

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR LOCATION SHT NO	MAP KEY
TA-3-757	SM-757	MANHOLE, ACID		17	F - 9
TA-3-758	SM-758	MANHOLE, ACID		17	G - 9
TA-3-759	SM-759	MANHOLE, ACID		15	F - 9
TA-3-760	SM-760	MANHOLE, ACID		15	E - 9
TA-3-761	SM-761	MANHOLE, ACID		15	D - 9
TA-3-762	SM-762	MANHOLE, ACID		15	D - 9
TA-3-763	SM-763	MANHOLE, ACID		15	C - 9
TA-3-764	SM-764	MANHOLE, ACID		17	F - 6
TA-3-765	SM-765	MANHOLE, ACID		15	E - 6
TA-3-766	SM-766	MANHOLE, ACID		15	E - 6
TA-3-767	SM-767	MANHOLE, ACID		17	G - 7
TA-3-768	SM-768	MANHOLE, ACID		17	G - 7
TA-3-769	SM-769	MANHOLE, ACID		17	H - 7
TA-3-770	SM-770	MANHOLE, ACID		15	E - 5
TA-3-771	SM-771	MANHOLE, ACID		17	H - 8
TA-3-772	SM-772	MANHOLE, ACID		17	H - 8
TA-3-773	SM-773	MANHOLE, ACID		17	H - 7
TA-3-774	SM-774	MANHOLE, ACID		15	D - 7
TA-3-775	SM-775	MANHOLE, ACID		15	E - 7
TA-3-776	SM-776	MANHOLE, ACID		15	E - 7
TA-3-777	SM-777	MANHOLE, ACID		15	D - 7
TA-3-778	SM-778	MANHOLE, ACID		15	E - 6
TA-3-779	SM-779	MANHOLE, ACID		17	H - 7
TA-3-780	SM-780	MANHOLE, ACID		17	H - 7
TA-3-781	SM-781	MANHOLE, ACID		17	I - 7
TA-3-782	SM-782				
TA-3-783	SM-783				
TA-3-784	SM-784				
TA-3-785	SM-785				
TA-3-786	SM-786				
TA-3-787	SM-787				
TA-3-788	SM-788				
TA-3-789	SM-789				
TA-3-790	SM-790				
TA-3-791	SM-791				
TA-3-792	SM-792				
TA-3-793	SM-793				
TA-3-794	SM-794				
TA-3-795	SM-795				
TA-3-796	SM-796				
TA-3-797	SM-797				
TA-3-798	SM-798				
TA-3-799	SM-799				
TA-3-800	SM-800	MANHOLE, ELECTRICAL		16	G - 4

DRAFT

UNCLASSIFIED

FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
(4 OF 8)

REV.	DATE	REVISION	BY	CKD.	APP.
26	1-23-86	REVISED TO STATUS OF 1-17-86	ALC		
25	9-27-83	REDRAWN & REVISED TO STATUS OF 6-15-83	ADS		

UNIVERSITY OF CALIFORNIA
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FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

SEC. CLASSIFICATION — CLASS. U — REVIEWER — DATE

SUBMITTED — RECOMMENDED — APPROVED

DRAWN: ADS — CHECKED: - — DATE: 9-27-83 — SHEET NO. 4 of 17 — DRAWING NO. ENG-R5103

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STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT. NO.	MAP KEY
TA-3-801	SM-801	MANHOLE, ELECTRICAL		16	F-5
TA-3-802	SM-802	MANHOLE, ELECTRICAL		17	F-5
TA-3-803	SM-803	MANHOLE, ELECTRICAL		15	F-5
TA-3-804	SM-804				
TA-3-805	SM-805	MANHOLE, ELECTRICAL		15	E-5
TA-3-806	SM-806	MANHOLE, ELECTRICAL		15	E-5
TA-3-807	SM-807	MANHOLE, ELECTRICAL		14	E-5
TA-3-808	SM-808	MANHOLE, ELECTRICAL		14	D-4
TA-3-809	SM-809	MANHOLE, ELECTRICAL		15	D-6
TA-3-810	SM-810	MANHOLE, ELECTRICAL		15	D-6
TA-3-811	SM-811	MANHOLE, ELECTRICAL		15	D-7
TA-3-812	SM-812	MANHOLE, ELECTRICAL		15	D-5
TA-3-813	SM-813	MANHOLE, ELECTRICAL		15	C-5
TA-3-814	SM-814	MANHOLE, ELECTRICAL		15	C-6
TA-3-815	SM-815	MANHOLE, ELECTRICAL		15	C-6
TA-3-816	SM-816	MANHOLE, ELECTRICAL		15	C-7
TA-3-817	SM-817	MANHOLE, ELECTRICAL		15	C-8
TA-3-818	SM-818	MANHOLE, ELECTRICAL		15	C-8
TA-3-819	SM-819	MANHOLE, ELECTRICAL		14	C-5
TA-3-820	SM-820	MANHOLE, ELECTRICAL		14	C-5
TA-3-821	SM-821	MANHOLE, ELECTRICAL		14	D-4
TA-3-822	SM-822	MANHOLE, ELECTRICAL		14	C-4
TA-3-823	SM-823	MANHOLE, ELECTRICAL		14	C-4
TA-3-824	SM-824	MANHOLE, ELECTRICAL		14	B-4
TA-3-825	SM-825		REMOVED 1982		
TA-3-826	SM-826	MANHOLE, ELECTRICAL		14	B-4
TA-3-827	SM-827	MANHOLE, ELECTRICAL		14	B-4
TA-3-828	SM-828	MANHOLE, ELECTRICAL		14	A-4
TA-3-829	SM-829	MANHOLE, ELECTRICAL		14	A-4
TA-3-830	SM-830	MANHOLE, ELECTRICAL	N.W. OF SM-30		
TA-3-831	SM-831		REMOVED 1984		
TA-3-832	SM-832	MANHOLE, ELECTRICAL		14	C-2
TA-3-833	SM-833	MANHOLE, ELECTRICAL		14	D-2
TA-3-834	SM-834	MANHOLE, ELECTRICAL		14	D-2
TA-3-835	SM-835	MANHOLE, ELECTRICAL		14	E-2
TA-3-836	SM-836	MANHOLE, ELECTRICAL		14	F-2
TA-3-837	SM-837		REMOVED 1964		
TA-3-838	SM-838	MANHOLE, ELECTRICAL		16	F-2
TA-3-839	SM-839	MANHOLE, ELECTRICAL		16	F-1
TA-3-840	SM-840	MANHOLE, ELECTRICAL		16	F-2
TA-3-841	SM-841	MANHOLE, ELECTRICAL		16	F-3
TA-3-842	SM-842	MANHOLE, TELEPHONE		16	F-4
TA-3-843	SM-843	MANHOLE, ELECTRICAL		17	F-6
TA-3-844	SM-844	MANHOLE, ELECTRICAL		17	G-6
TA-3-845	SM-845	MANHOLE, ELECTRICAL		17	G-6
TA-3-846	SM-846	MANHOLE, ELECTRICAL		17	G-7
TA-3-847	SM-847	MANHOLE, ELECTRICAL		17	G-7
TA-3-848	SM-848	MANHOLE, ELECTRICAL		17	F-6
TA-3-849	SM-849	MANHOLE, ELECTRICAL		17	F-7
TA-3-850	SM-850	MANHOLE, ELECTRICAL		15	F-7
TA-3-851	SM-851	MANHOLE, ELECTRICAL		17	F-7
TA-3-852	SM-852	MANHOLE, ELECTRICAL		17	F-7
TA-3-853	SM-853	MANHOLE, ELECTRICAL		17	F-8
TA-3-854	SM-854	MANHOLE, ELECTRICAL		17	F-8
TA-3-855	SM-855	MANHOLE, ELECTRICAL		17	F-9
TA-3-856	SM-856	MANHOLE, ELECTRICAL		15	F-6
TA-3-857	SM-857	MANHOLE, ELECTRICAL		17	G-6
TA-3-858	SM-858	MANHOLE, ELECTRICAL	ABANDONED 1977	17	G-6
TA-3-859	SM-859	MANHOLE, ELECTRICAL		17	G-6
TA-3-860	SM-860	MANHOLE, ELECTRICAL		15	E-6
TA-3-861	SM-861	MANHOLE, ELECTRICAL		17	G-6
TA-3-862	SM-862	MANHOLE, ELECTRICAL		17	G-6
TA-3-863	SM-863	MANHOLE, ELECTRICAL		17	H-6
TA-3-864	SM-864	MANHOLE, ELECTRICAL		17	G-7
TA-3-865	SM-865	MANHOLE, ELECTRICAL		17	H-7
TA-3-866	SM-866	MANHOLE, ELECTRICAL		17	H-7
TA-3-867	SM-867	MANHOLE, ELECTRICAL		17	H-6
TA-3-868	SM-868	MANHOLE, ELECTRICAL		17	I-6
TA-3-869	SM-869	MANHOLE, ELECTRICAL		17	I-7
TA-3-870	SM-870	MANHOLE, ELECTRICAL		17	I-7
TA-3-871	SM-871				
TA-3-872	SM-872				
TA-3-873	SM-873	MANHOLE, ELECTRICAL		14	E-5
TA-3-874	SM-874	MANHOLE, ELECTRICAL		14	E-4
TA-3-875	SM-875	MANHOLE, ELECTRICAL	ABANDONED 1968	14	E-4
TA-3-876	SM-876	MANHOLE, ELECTRICAL		17	I-7
TA-3-877	SM-877	MANHOLE, ELECTRICAL		15	C-6
TA-3-878	SM-878	MANHOLE, ELECTRICAL	NOT SHOWN		

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT. NO.	MAP KEY
TA-3-879	SM-879	MANHOLE, ELECTRICAL	NOT SHOWN		
TA-3-880	SM-880	MANHOLE, ELECTRICAL		14	F-2
TA-3-881	SM-881	MANHOLE, ELECTRICAL		14	F-2
TA-3-882	SM-882	MANHOLE, ELECTRICAL		14	E-2
TA-3-883	SM-883	MANHOLE, ELECTRICAL		14	D-2
TA-3-884	SM-884	MANHOLE, ELECTRICAL		16	G-4
TA-3-885	SM-885	MANHOLE, ELECTRICAL		16	G-4
TA-3-886	SM-886	MANHOLE, ELECTRICAL		16	G-4
TA-3-887	SM-887	MANHOLE, ELECTRICAL		16	G-4
TA-3-888	SM-888	MANHOLE, ELECTRICAL		14	E-4
TA-3-889	SM-889	MANHOLE, STREET LIGHTING		14	F-4
TA-3-890	SM-890	MANHOLE, ELECTRICAL		14	E-4
TA-3-891	SM-891	MANHOLE, ELECTRICAL		14	F-4
TA-3-892	SM-892	MANHOLE, ELECTRICAL		14	F-4
TA-3-893	SM-893	MANHOLE, ELECTRICAL		14	D-6
TA-3-894	SM-894	MANHOLE, ELECTRICAL		15	D-7
TA-3-895	SM-895	MANHOLE, ELECTRICAL		15	D-8
TA-3-896	SM-896	MANHOLE, ELECTRICAL		15	E-8
TA-3-897	SM-897	MANHOLE, ELECTRICAL		15	F-9
TA-3-898	SM-898	MANHOLE, ELECTRICAL		17	G-9
TA-3-899	SM-899	MANHOLE, ELECTRICAL		15	E-6
NOTE: TA-3-900 THRU TA-3-999 CANNOT BE USED FOR STRUCTURE NUMBER ASSIGNMENT.					
TA-3-1000	SM-1000	MANHOLE, STEAM		16	F-5
TA-3-1001	SM-1001	MANHOLE, STEAM		17	F-5
TA-3-1002	SM-1002	MANHOLE, STEAM		17	G-6
TA-3-1003	SM-1003	MANHOLE, STEAM		17	G-6
TA-3-1004	SM-1004	MANHOLE, STEAM		15	F-5
TA-3-1005	SM-1005	MANHOLE, STEAM		15	F-6
TA-3-1006	SM-1006	MANHOLE, STEAM		15	E-5
TA-3-1007	SM-1007	MANHOLE, STEAM		15	D-5
TA-3-1008	SM-1008	MANHOLE, STEAM		15	D-5
TA-3-1009	SM-1009	MANHOLE, STEAM		15	C-5
TA-3-1010	SM-1010	MANHOLE, STEAM		14	C-5
TA-3-1011	SM-1011	MANHOLE, STEAM		15	C-5
TA-3-1012	SM-1012	MANHOLE, STEAM		15	B-5
TA-3-1013	SM-1013	MANHOLE, STEAM		14	B-4
TA-3-1014	SM-1014	MANHOLE, STEAM		14	B-4
TA-3-1015	SM-1015	MANHOLE, STEAM		14	C-4
TA-3-1016	SM-1016	MANHOLE, STEAM		15	C-6
TA-3-1017	SM-1017	MANHOLE, STEAM		15	C-6
TA-3-1018	SM-1018	MANHOLE, STEAM		15	C-7
TA-3-1019	SM-1019	MANHOLE, STEAM		15	C-8
TA-3-1020	SM-1020	MANHOLE, STEAM		15	D-8
TA-3-1021	SM-1021	MANHOLE, STEAM		15	D-8
TA-3-1022	SM-1022	MANHOLE, STEAM		16	F-4
TA-3-1023	SM-1023	MANHOLE, STEAM	ABANDONED 1977		
TA-3-1024	SM-1024	MANHOLE, STEAM		16	F-3
TA-3-1025	SM-1025	MANHOLE, STEAM		16	F-3
TA-3-1026	SM-1026	MANHOLE, STEAM		16	F-2
TA-3-1027	SM-1027	MANHOLE, STEAM		16	F-2
TA-3-1028	SM-1028	MANHOLE, STEAM		14	F-2
TA-3-1029	SM-1029	MANHOLE, STEAM		16	G-1
TA-3-1030	SM-1030	MANHOLE, STEAM		17	G-6
TA-3-1031	SM-1031	MANHOLE, STEAM		16	G-3
TA-3-1032	SM-1032	MANHOLE, STEAM		14	C-5
TA-3-1033	SM-1033	MANHOLE, STEAM		17	G-6
TA-3-1034	SM-1034	MANHOLE, STEAM		17	H-6
TA-3-1035	SM-1035	MANHOLE, STEAM		17	H-7
TA-3-1036	SM-1036	MANHOLE, STEAM		17	H-7
TA-3-1037	SM-1037	MANHOLE, STEAM	ABANDONED 1977		
TA-3-1038	SM-1038	MANHOLE, STEAM		14	E-4
TA-3-1039	SM-1039	MANHOLE, STEAM		14	E-4
TA-3-1040	SM-1040	MANHOLE, STEAM		14	F-4
TA-3-1041	SM-1041	MANHOLE, STEAM		14	F-4
TA-3-1042	SM-1042	MANHOLE, STEAM		15	C-6
TA-3-1043	SM-1043	MANHOLE, STEAM		15	E-5
TA-3-1044	SM-1044	MANHOLE, STEAM		17	H-5
TA-3-1045	SM-1045	MANHOLE, STEAM		14	C-4
TA-3-1046	SM-1046	MANHOLE, STEAM		14	D-4
TA-3-1047	SM-1047	MANHOLE, STEAM		15	F-8
TA-3-1048	SM-1048	MANHOLE, STEAM		14	C-3
TA-3-1049	SM-1049	MANHOLE, STEAM		15	C-5
TA-3-1050	SM-1050	MANHOLE, STEAM		14	C-2

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STR. LOCATION SHT. NO.	MAP KEY
TA-3-1051	SM-1051	MANHOLE, STEAM		14	E-4
TA-3-1052	SM-1052	MANHOLE, STEAM		15	F-8
TA-3-1053	SM-1053	MANHOLE, STEAM		15	D-5
TA-3-1054	SM-1054				
TA-3-1055	SM-1055				
TA-3-1056	SM-1056				
TA-3-1057	SM-1057				
TA-3-1058	SM-1058				
TA-3-1059	SM-1059				
TA-3-1060	SM-1060				
TA-3-1061	SM-1061				
TA-3-1062	SM-1062				
TA-3-1063	SM-1063				
TA-3-1064	SM-1064				
TA-3-1065	SM-1065				
TA-3-1066	SM-1066				
TA-3-1067	SM-1067				
TA-3-1068	SM-1068				
TA-3-1069	SM-1069				
TA-3-1070	SM-1070				
TA-3-1071	SM-1071				
TA-3-1072	SM-1072				
TA-3-1073	SM-1073				
TA-3-1074	SM-1074				
TA-3-1075	SM-1075				
TA-3-1076	SM-1076				
TA-3-1077	SM-1077				
TA-3-1078	SM-1078				
TA-3-1079	SM-1079				
TA-3-1080	SM-1080				
TA-3-1081	SM-1081				
TA-3-1082	SM-1082				
TA-3-1083	SM-1083				
TA-3-1084	SM-1084				
TA-3-1085	SM-1085				
TA-3-1086	SM-1086				
TA-3-1087	SM-1087				
TA-3-1088	SM-1088				
TA-3-1089	SM-1089				
TA-3-1090	SM-1090				
TA-3-1091	SM-1091				
TA-3-1092	SM-1092				
TA-3-1093	SM-1093				
TA-3-1094	SM-1094				

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UNCLASSIFIED

FIGURE 3-14

TA-3 STRUCTURE LOCATION INDEX
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REV.	DATE	REVISION	BY
3	1-24-86	REVISED TO STATUS OF 1-17-86	NH
2	9-27-83	REDRAWN & REVISED TO STATUS OF 6-15-83	ADS

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December 1988

Volume II (TA-6 through TA-20)

Solid Waste Management Units Report

Los Alamos National Laboratory
Los Alamos, New Mexico

Los Alamos National Laboratory
Environmental Surveillance Group HSE-8
Los Alamos, New Mexico 87545

RESPONSIVE TO THE NEEDS OF ENVIRONMENTAL MANAGEMENT

TA-6

OPERATIONS AND ENVIRONMENTAL SETTING

Currently, Technical Area (TA) 6 is only partially active and is used mainly for storage. The site dates from the 1940's when it was used to develop initiators, test explosives, and conduct some experiments involving radioactive materials.

TA-6 is located on Two Mile Mesa, a broad mesa bounded on the north by Two Mile Canyon and on the south by Pajarito Canyon. The area lies at about 7,525 feet asl, in the Ponderosa Pine overstory vegetation zone. The soils around TA-6 are described as Carjo loam. The soil is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential, measured as the soil loss from a two-year, 30-minute event on bare soil, is moderate (0.14 to 0.51 cm).

TA-6 is underlain by welded Bandelier Tuff which is about 200 feet thick at this location (DOE, 1979). The potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,200 feet asl near TA-6. Therefore, over 1,300 feet of unsaturated tuff and other volcanic rocks are present beneath TA-6. The unsaturated conditions limit infiltration and downward flow rates, and little effect on moisture content is seen in these rocks below about 15 feet due to precipitation.

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1944 - PRESENT

UNIT INFORMATION

Two active septic systems are present at TA-6:

STRUCTURE	SWMU NO.	PERIOD OF USE	CAPACITY	DIMENSIONS	CONSTRUCTION	OVERFLOW
TA-6-40	6-001(a)	1944 - present	853 gal.	unknown	unknown	drain line
TA-6-43	6-001(b)	1945 - present	780 gal.	5' x 9' x 5'9" deep	reinforced concrete	filter trench

The capacity of TA-6-40 is listed as 500 gallons on engineering records, however the capacity according to Pan Am, the agnecy responsible for tank maintenance, is 853 gallons.

WASTE INFORMATION

Septic tanks TA-6-40 and TA-6-43 currently handle only sanitary waste. However, since laboratory operations have taken place at TA-6, liquid wastes during previous years may have included solvents and other chemicals. These tanks are used infrequently at present.

RELEASE INFORMATION

The overflow from TA-6-40 goes to a drain line. Septic tank TA-6-43 overflow discharges to a filter trench.

DRAFT

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1945 - 1965

UNIT INFORMATION

TA-6-41 was a septic tank that was installed in 1945 and removed in 1965. The tank was constructed of steel and had a capacity of 1,000 gallons. The discharge point for the tank is unknown, but is assumed to have been a drain field.

WASTE INFORMATION

Septic tank TA-6-41 received wastes which included PETN, a type of explosive. When the tank was removed the sludge was placed in the HE burial pit and, after washing, the tank was placed in MDA-P.

RELEASE INFORMATION

It is not known whether the soils surrounding TA-6-41 were sampled for HE when the tank was removed in 1965.

DRAFT

6-003 FIRING SITE

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's - 1960's

UNIT INFORMATION

Several firing areas were used in TA-6. 1) A saucer-shaped concrete-lined depression, TA-6-37 [6-003(a)], 200' in diameter, built in 1944; 2) A containment vessel [6-003(b)] known as "Jumbino", location unknown, used in HE tests; 3) An asphalt pad [6-003(c)] located south of the road between the saucer and the magazine complex; the pad is about 10' x 20'; 4) A reinforced concrete and steel plate structure (12' x 19' x 12' high) in the laboratory area at TA-6-7 [6-003(d)], used to conduct detonator tests; and 5) Two reinforced concrete and steel plate structures at TA-6-9 [6-003(e)], one 10' x 19' x 10' and the other 16' x 10' x 10', also used to conduct detonator tests.

WASTE INFORMATION

Shots fired in the saucer-shaped depression included uranium. The depression was washed after tests and the rinsate was filtered to recover some of the material. Shots using uranium were also fired on the asphalt pad. Other materials which may have been present in the shots, such as barium, lead, and beryllium, are not known. Shots in the laboratories (TA-6-7 and TA-6-9) probably included only HE.

RELEASE INFORMATION

Sampling in 1978 indicated uranium at levels above background on the asphalt pad. Additionally, the area around the asphalt pad has elevated levels of phoswich counts. Detailed sampling activities for nonradionuclides have not been undertaken.

DRAFT

6-004 SUMP

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's

UNIT INFORMATION

The sump and associated drain were located about 170 yards east of TA-6-10. The dimensions and construction of the sump are not known. The drain line extended from the sump to about 30 yards east/southeast where it opened to ground level.

WASTE INFORMATION

The sump received liquids that are suspected to have contained PETN (a type of HE) from the recrystallization facility in Building 10.

RELEASE INFORMATION

Present infield surveys have failed to find the sump area and the decant drain region. These may have been removed. The extent of contamination, if any, is unknown.

DRAFT

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): PIT
UNIT USE: UNKNOWN
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1940's

UNIT INFORMATION

TA-6-42 was an enclosed pit, about 16' x 16' x 8', with timbered sides. The pit was constructed in June 1945. The purpose of the pit is not known. According to LANL staff it may have been a firing pit. The pit is reported to have been backfilled with soil in 1952. As reported in CEARP, engineering records indicate the pit to be 1000 feet northeast of TA-6-37.

WASTE INFORMATION

Information on the type of waste is lacking. If the unit was used as a firing pit, uranium and HE residuals could be waste constituents. If the pit was used for a different purpose, the composition of any residuals cannot be estimated.

RELEASE INFORMATION

It is unknown whether a release of hazardous waste occurred.

DRAFT

6-006 DRUM STORAGE AREAS

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: LATE 1970's-PRESENT

UNIT INFORMATION

A storage area for drums is located near buildings TA-6-5 and TA-6-6; they are identified in the CEARP and in the RFA. The area was estimated to be 300' x 20' and was partially surrounded by a 4" berm. Old equipment, in addition to drummed wastes and raw materials, was also stored in this area. A November 1988 field survey verified that drums which appear to contain oil, capacitors, and other equipment remain at the site.

WASTE INFORMATION

The wastes stored consisted of capacitors, transformer oil, and other unknown wastes. The oil from the capacitors and transformers may have contained PCBs, according to the RFA.

RELEASE INFORMATION

During the CEARP field survey, evidence of spills and leaks were noted. The RFA stated that an "organic" sheen was observed on the concrete and soil during the VSI. The November 1988 field survey reported similar findings.

DRAFT

SUMMARY

LOCATION: TA-6
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's - 1950's

UNIT INFORMATION

MDA-F contains two pits inside a fenced area. It is believed that other pits may be just outside the fenced area including a pit estimated to be 40' x 70' from an aerial survey conducted in the 1940s. Additionally, there are work orders for pits 6' x 6' x 6' and 2' x 2' x 4' which are believed to have been excavated at TA-6. Several other pits may also have been constructed. A magnetometer survey was conducted in 1986; the results indicate that there is probably little ferrous material within the fenced areas and that there were additional pits outside the fenced area. Some surface stabilization at MDA-F was completed in FY-86.

WASTE INFORMATION

The wastes probably include experimental pieces, small quantities of radionuclides, and possibly some unexploded HE material.

RELEASE INFORMATION

The air at the perimeter of this site is sampled annually for radioactivity; the site is at background levels. It is unknown whether releases to soil have occurred or if unexploded HE remain (if so, any decommissioning activities could potentially be dangerous). Some surface stabilization has been undertaken.

DRAFT

TA-6 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
6-001(a)	6-1, 6-4
6-001(b)	6-1, 6-4
6-002	6-2
6-003(a)	6-1
6-003(b)	Not shown, location unknown
6-003(c)	6-2
6-003(d)	6-1
6-003(e)	6-1
6-004	6-2
6-005	6-3
6-006(a)	6-1
6-006(b)	6-1
6-007	6-1, 6-2

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

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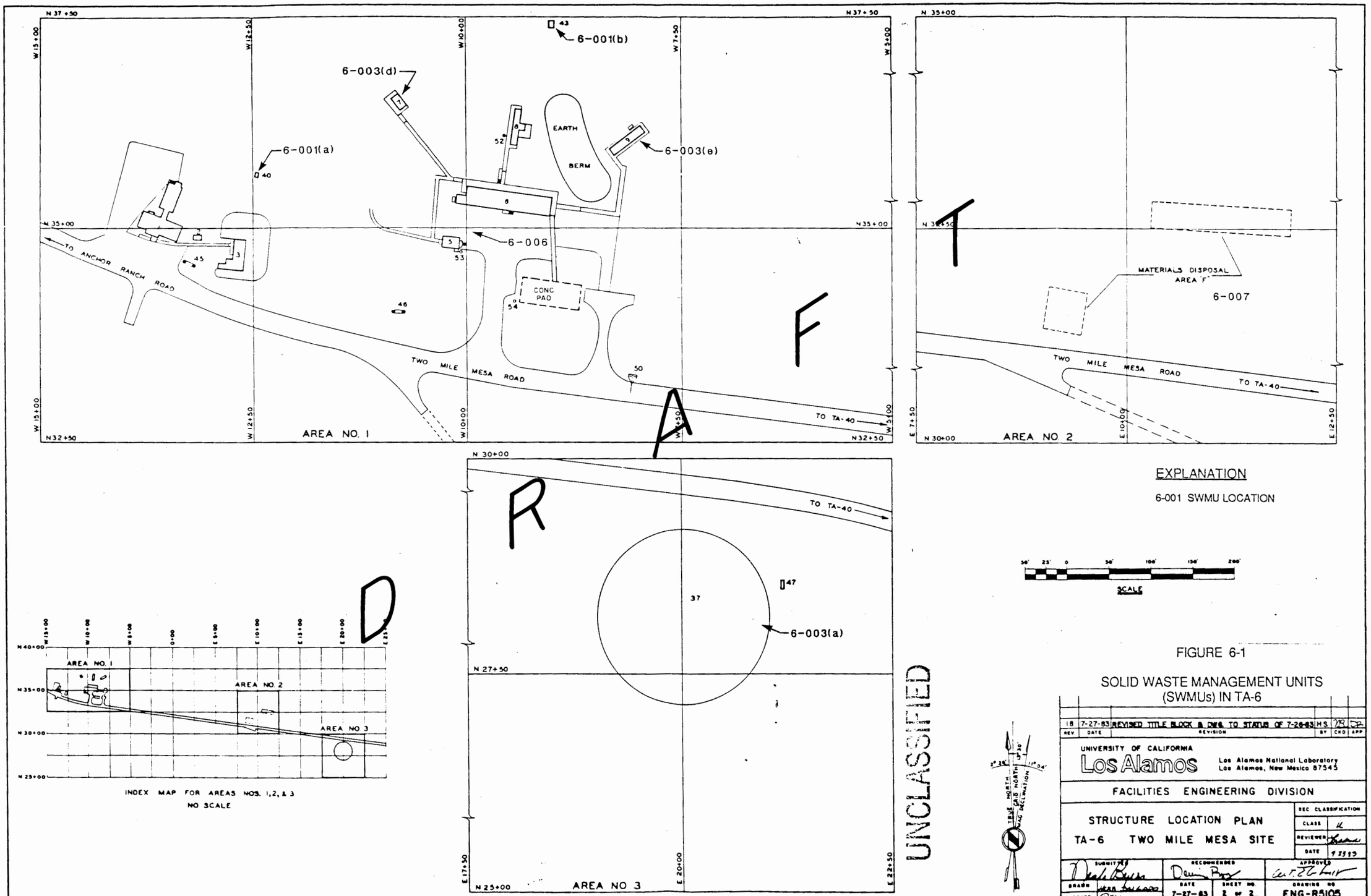

FIGURE 6-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-6

REV	DATE	REVISION	BY	CKD	APP
18	7-27-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-26-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-6 TWO MILE MESA SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 7 27 83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 7-27-83; SHEET NO 1 OF 2; DRAWING NO ENG-R5105

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301215 01 B91

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-6-1	TM-1	CARPENTER SHOP
TA-6-2	TM-2	COMPRESSOR BLDG.
TA-6-3	TM-3	OFFICE BLDG.
TA-6-4	TM-4	MAGAZINE M
TA-6-5	TM-5	INSPECTION BLDG.
TA-6-6	TM-6	LABORATORY
TA-6-7	TM-7	LABORATORY
TA-6-8	TM-8	LABORATORY
TA-6-9	TM-9	LABORATORY
TA-6-10	TM-10	LABORATORY
TA-6-11	TM-11	LAB (RELOCATED TO CONT DUMP 1955)
TA-6-12	TM-12	STORAGE BLDG. (REMOVED)
TA-6-13	TM-13	STORAGE BLDG.
TA-6-14	TM-14	STORAGE BLDG.
TA-6-15	TM-15	BOILER BLDG.
TA-6-16	TM-16	MAGAZINE F
TA-6-17	TM-17	MAGAZINE E
TA-6-18	TM-18	STORAGE BLDG. (REMOVED 1944)
TA-6-19	TM-19	STORAGE BLDG. (FORMERLY 18-A)
TA-6-20	TM-20	LAVATORY (FORMERLY 19)
TA-6-21	TM-21	MAGAZINE C (FORMERLY 20)
TA-6-22	TM-22	MAGAZINE D (FORMERLY 21)
TA-6-23	TM-23	MAGAZINE G (FORMERLY 22)
TA-6-24	TM-24	MAGAZINE I (FORMERLY 23)
TA-6-25	TM-25	MAGAZINE L (FORMERLY 24)

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-6-26	TM-26	MAGAZINE H (FORMERLY 25)
TA-6-27	TM-27	MAGAZINE J (FORMERLY 26)
TA-6-28	TM-28	MAGAZINE A (FORMERLY 27)
TA-6-29	TM-29	MAGAZINE K (FORMERLY 28)
TA-6-30	TM-30	MAGAZINE B (FORMERLY 29)
TA-6-31	TM-31	TRAILER SHOP (FORMERLY 30)
TA-6-32	TM-32	AIR COMPRESSOR BLDG. (FORM 31 REM)
TA-6-33	TM-33	LUMBER STORAGE BLDG. (FORM 32)
TA-6-34	TM-34	STORAGE BLDG. (FORMERLY 33)
TA-6-35	TM-35	FIRE EQUIP. & HOSE BLDG. (FORM 34)
TA-6-36	TM-36	MAGAZINE N (FORMERLY 35)
TA-6-37	TM-37	CONCRETE BOWL (FORMERLY 36)
TA-6-38	TM-38	GENERATOR BLDG. (FORMERLY 37)
TA-6-39	TM-39	STORAGE TANK (FORMERLY 38)
TA-6-40	TM-40	SEPTIC TANK
TA-6-41	TM-41	SEPTIC TANK
TA-6-42	TM-42	ENCLOSED PIT (REMOVED)
TA-6-43	TM-43	SEPTIC TANK
TA-6-44	TM-44	BARRICADE (REMOVED)
TA-6-45	TM-45	TRANSFORMER STATION
TA-6-46	TM-46	TRANSFORMER STATION
TA-6-47	TM-47	UNDERGROUND TANK
TA-6-48	TM-48	SHELTER

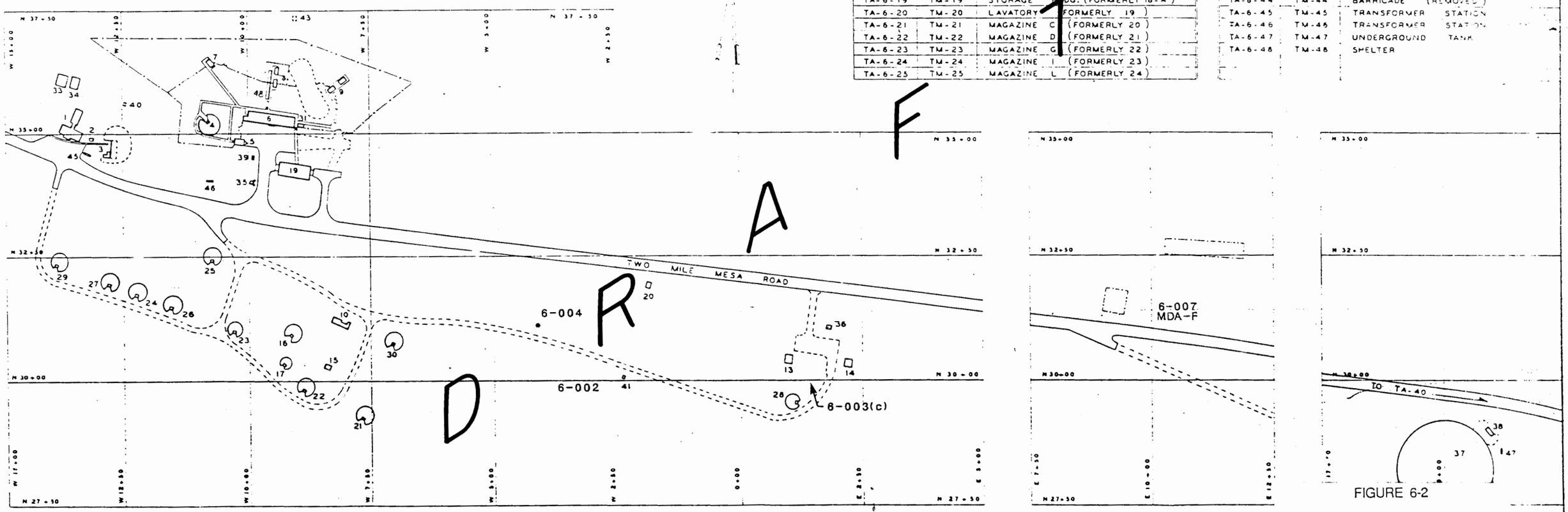

FIGURE 6-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-6

EXPLANATION

6-001 SWMU LOCATION

NOTES

UNIT 6-003 (c): UNIT IS A FIRING PAD; EXACT LOCATION UNAVAILABLE.

UNIT 6-004: UNIT LOCATION IS APPROXIMATE.

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CKED	GRP LDR	ENG DIV
7	9/29/90	REDRAWN TO STATUS OF JULY 1, 1955	NOB			

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

STRUCTURE LOCATION PLAN
TA-6 TWO MILE MESA SITE

CHECKED DESIGNER RECOMMENDED GROUP LEADER APPROVED ENG. DEPT. OFFICE
DRAWN DATE DRAWING NO.

AUTHORIZED FOR

DRAFT

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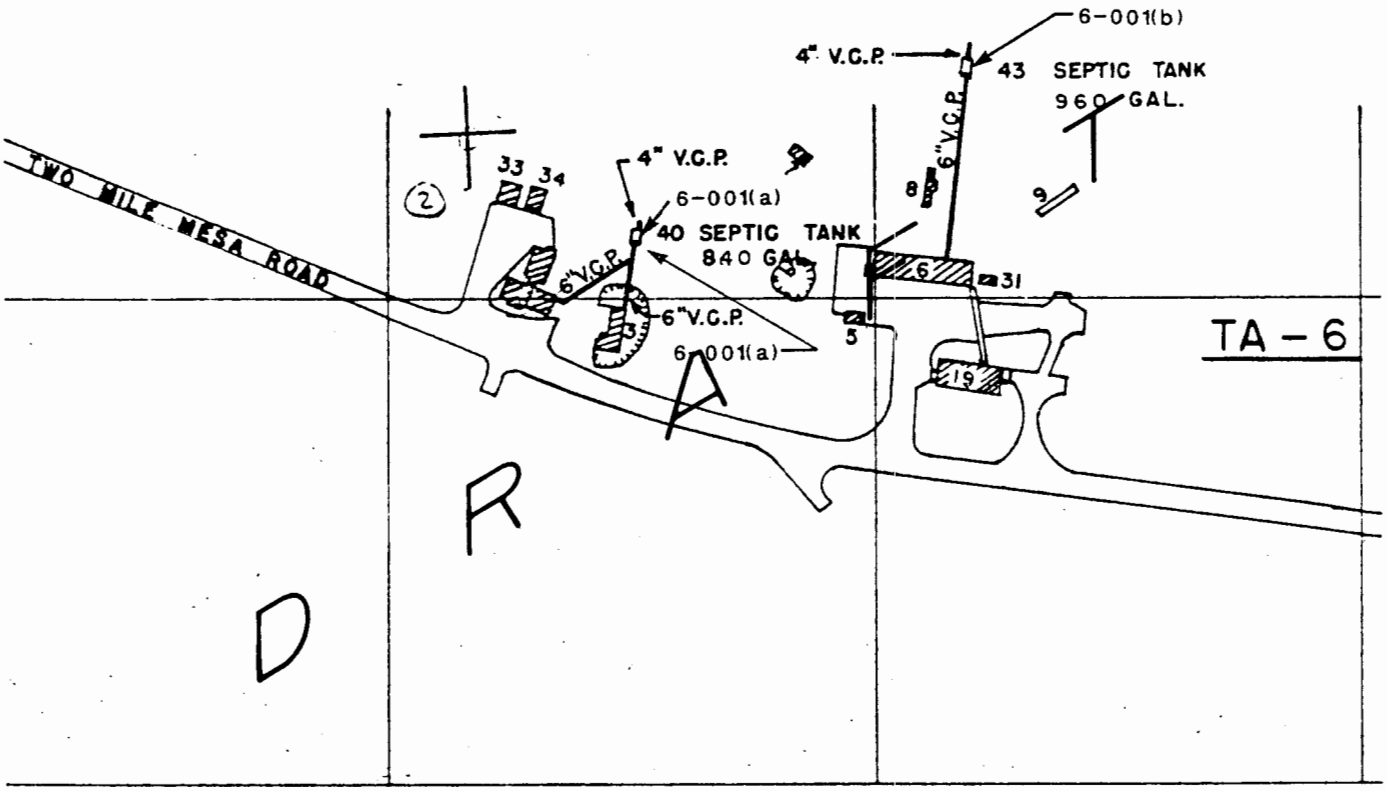

EXPLANATION

6-001 SWMU LOCATION

From the U. S. Atomic Energy Commission Sewer System. The Zia Company Sheet N-1 of W-1 Scale 1" = 200'

UNCLASSIFIED

FIGURE 6-3

SOLID WASTE MANAGEMENT UNITS (SWMUs)IN TA-6

301215 02 01 B62

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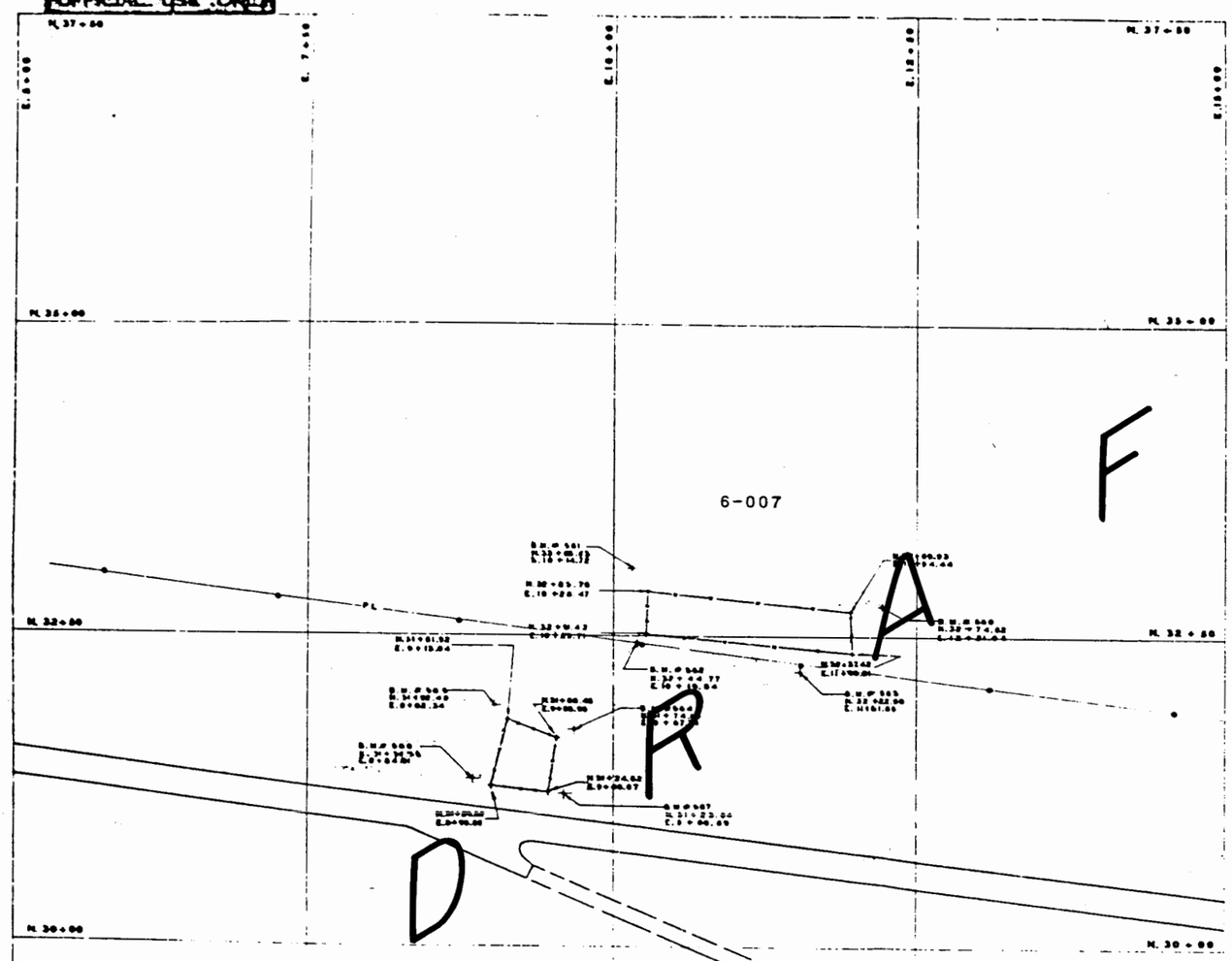

EXPLANATION

6-007 SWMU LOCATION

NOTE: FOR INDEX TO OTHER MATERIALS WASTE PITS & SHAFTS SEE DWGS. ENG-R175 & ENG-R177.

FIGURE 6-4

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-6

LEGEND

+ L.A.D.L. BENCH MARKS

UNCLASSIFIED

NO.	DATE	REVISIONS	BY
1	9-87	L.A.D.L. SURVEY BENCH MARKS ADDED	

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

MATERIALS WASTE PIT
AREA 'F' TA-6

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., ENG.

DRAWN: H. DYERS — DATE: 8-7-86 — SCALE: 1" = 50' — SHEET: 6 of 6 — ENG-R190

LAB. JOB NO. 1757

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Void - see pkg - 2-3045

301215 02 01 B17

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-6-1	TM-1	CARPENTER SHOP		N35+00W12+50
TA-6-2	TM-2	COMPRESSOR BUILDING		N35+00W12+50
TA-6-3	TM-3	FABRICATION BUILDING		N35+00W12+50
TA-6-4	TM-4		REMOVED 1972	
TA-6-5	TM-5	LABORATORY BUILDING		N38+00W10+00
TA-6-6	TM-6	LAB OFFICE & SHOP BLDG		N35+00W10+00
TA-6-7	TM-7	CHEMICAL STORAGE BUILDING		N37+50W10+00
TA-6-8	TM-8	LABORATORY BUILDING		N35+00W10+00
TA-6-9	TM-9	LABORATORY		N35+00W 7+50
TA-6-10	TM-10		REMOVED 1960	
TA-6-11	TM-11		REMOVED 1955	
TA-6-12	TM-12		REMOVED 1950	
TA-6-13	TM-13		REMOVED 1960	
TA-6-14	TM-14		REMOVED 1960	
TA-6-15	TM-15		REMOVED 1960	
TA-6-16	TM-16		REMOVED 1960	
TA-6-17	TM-17		REMOVED 1960	
TA-6-18	TM-18		REMOVED 1948	
TA-6-19	TM-19	LABORATORY BUILDING	RELOCATED TO TA-9-214	
TA-6-20	TM-20		REMOVED 1955	
TA-6-21	TM-21		REMOVED 1960	
TA-6-22	TM-22		REMOVED 1960	
TA-6-23	TM-23		REMOVED 1960	
TA-6-24	TM-24		REMOVED 1960	
TA-6-25	TM-25		REMOVED 1960	
TA-6-26	TM-26		REMOVED 1960	
TA-6-27	TM-27		REMOVED 1960	
TA-6-28	TM-28		REMOVED 1960	
TA-6-29	TM-29		REMOVED 1960	
TA-6-30	TM-30		REMOVED 1960	
TA-6-31	TM-31		REMOVED 1971	
TA-6-32	TM-32		REMOVED 1950	
TA-6-33	TM-33		DEMOLISHED 1977	
TA-6-34	TM-34		DEMOLISHED 1977	
TA-6-35	TM-35		REMOVED 1963	
TA-6-36	TM-36	MAGAZINE	RELOCATED TO TA-40-38	
TA-6-37	TM-37	CONCRETE BOWL	ABANDONED 1962	N27+50 E20+00
TA-6-38	TM-38		REMOVED 1960	
TA-6-39	TM-39		REMOVED 1961	
TA-6-40	TM-40	TANK, SEPTIC		N35+00W12+50
TA-6-41	TM-41		REMOVED 1965	
TA-6-42	TM-42		REMOVED 1952	
TA-6-43	TM-43	TANK, SEPTIC		N37+50W10+00
TA-6-44	TM-44		REMOVED 1954	
TA-6-45	TM-45	TRANSFORMER STATION		N35+00W12+50
TA-6-46	TM-46	TRANSFORMER STATION		N35+00W10+00
TA-6-47	TM-47	TANK, FUEL	ABANDONED 1960	N30+00 E 20+00
TA-6-48	TM-48		REMOVED 1957	
TA-6-49	TM-49		REMOVED 1960	
TA-6-50	TM-50	ROAD BLOCK	FORMERLY TA-16-211	N32+50 W7+50
TA-6-51	TM-51	MANHOLE (COMPRESSED AIR)	REPLACED BY TM-52	
TA-6-52	TM-52	MANHOLE, (COMPRESSED AIR)		N35+00 W10+00
TA-6-53	TM-53	MANHOLE, (COMPRESSED AIR)		N35+00 W10+00
TA-6-54	TM-54	MANHOLE, (COMPRESSED AIR)		N35+00 W10+00
TA-6-55	TM-55	TRANSFORMER STATION	NOT SHOWN	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 6-5

TA-6 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CHD	APP
16	8-18-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-26-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-6 TWO MILE MESA SITE

SEC CLASSIFICATION: CLASS U; REVIEWED; DATE 4-23-89

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 8-18-83; SHEET NO 1 OF 2; DRAWING NO ENG-R 5105

TA-7

OPERATIONS AND ENVIRONMENTAL SETTING

Currently, Technical Area (TA) 7 is inactive. The area was used for weapons stockpile storage, a detonator destruction pit, and a few field experiments. Any buildings that may have been present were removed from the area.

TA-7 is located on Two Mile Mesa. TA-7 lies near the eastern end of the mesa, where it is divided by small branch canyons of Pajarito Canyon, into which any surface runoff from TA-7 would flow. The area lies at about 7,390 feet asl, in the Ponderosa Pine overstory vegetation zone. The area lies east of TA-6 and north of TA-40.

TA-7 is underlain by welded Bandelier Tuff which is about 200 feet thick at this location. The soils around TA-7 are described as Carjo loam. The soil is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water-holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential, measured as the soil loss from a two-year, 30-minute event on bare soil, is moderate (0.12 to 0.51 cm).

The potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,100 feet asl near TA-7. Therefore, over 1,200 feet of unsaturated tuff and other volcanic rocks are present beneath TA-7. The unsaturated conditions limit infiltration and downward flow rates, and little effect on moisture content is seen in these rocks below about 15 feet due to precipitation.

7-001 FIRING PITS AND DETONATOR DISPOSAL

SUMMARY

LOCATION: TA-7
TYPE OF UNIT(s): FIRING SITE
UNIT USE: DISPOSAL/TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1944 - LATE 1950's

UNIT INFORMATION

Two firing pits, [7-001(a)] and [7-001(b)], were used in TA-7 for experiments using HE as the energy source until the late 1940's. Later one pit was used for destroying detonators and scrap HE. They are located on the eastern portion of the Gomez Ranch site. The pits today are approximately 30' in diameter and 4' high.

WASTE INFORMATION

The residues from experiments and destruction activities included shot debris and pieces of detonators.

RELEASE INFORMATION

Presently, the only visible evidence of activity is the firing pit areas. The area was surveyed for scrap and all pieces located were removed. It is possible that some small buried items may remain.

DRAFT

TA-7 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
7-001(a)	7-1
7-001(b)	7-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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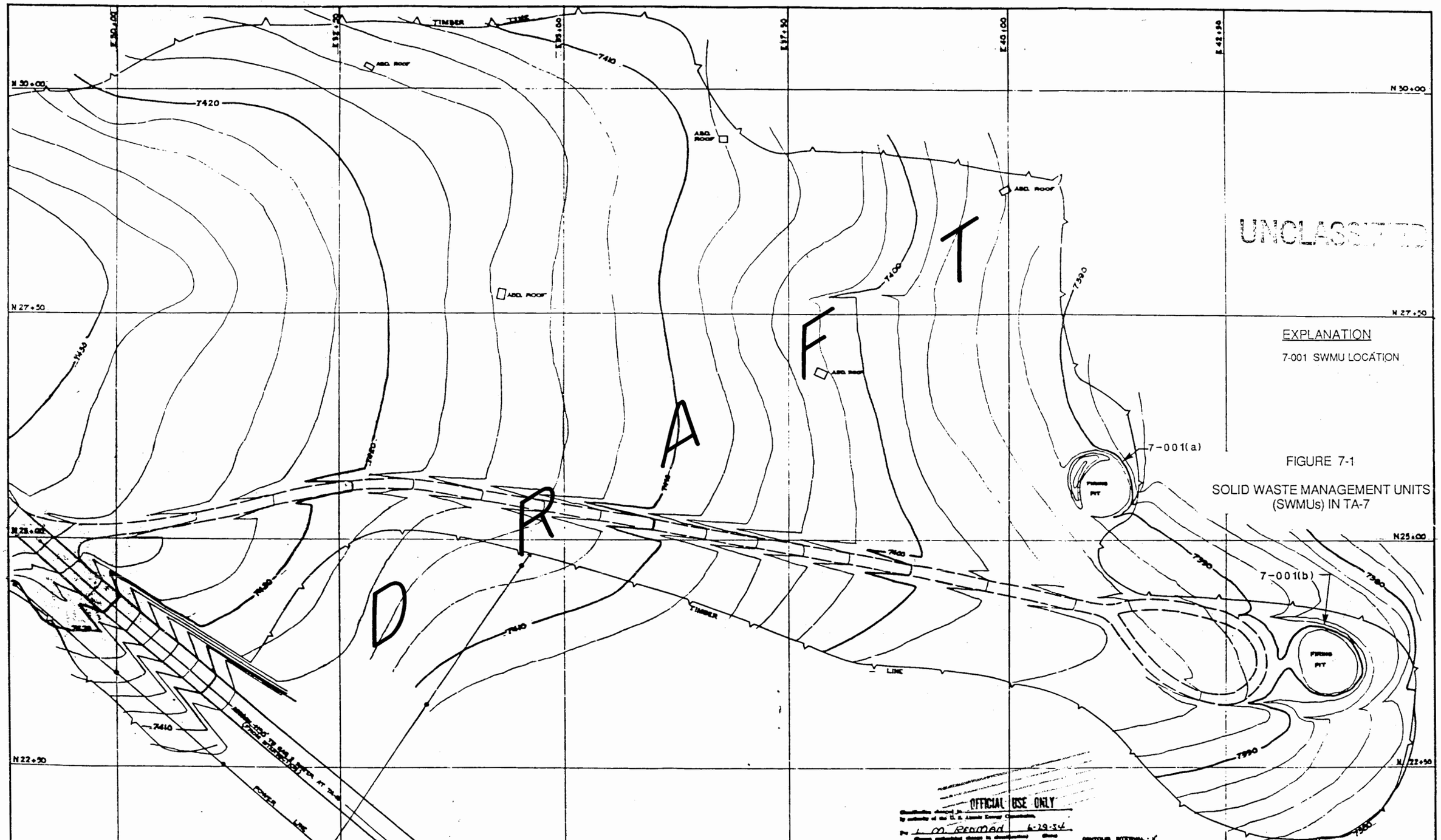


FIGURE 7-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-7

TA-8

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 8 is the site of non-destructive testing, laboratory operations, a large photographic facility, x-ray machines, and Fabrication and Assembly Group's betatron. A small amount of explosive materials are stored at TA-8.

TA-8 lies in the northwestern corner of the Laboratory on a broad mesa drained by branches of Pajarito Canyon on the north and east and by Canon de Valle on the south. Canyons are not as deeply incised nor are their walls marked by as steep slopes and cliffs as the finger mesas further east on the Pajarito Plateau. TA-8 lies in the Ponderosa Pine/Mixed Conifer overstory vegetation zone. The soils around TA-8 are described as Carjo loam. The soil is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential, measured as the soil loss from a two-year, 30-minute event on bare soil, is moderate (0.14 to 0.51 cm).

The center of TA-8 lies at about 7,650 feet asl. The potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,300 feet asl near the western boundary of the Laboratory (IT, 1987). The area is underlain by the Bandelier Tuff which is welded at the surface. Over 1,000 feet of unsaturated tuff and volcanic rock separates the surface from the underlying aquifer. Studies have shown the potential for downward movement of water from the surface is very low because of the hydraulic properties of the tuff and its very low moisture content.

8-001 OFF-GAS FACILITIES

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): OFF-GAS SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED/INACTIVE
PERIOD OF USE: EST. 1940's - 1960's

UNIT INFORMATION

Various types of chemical operations including HE formulation and crystal growing were conducted in TA-8-1 [8-001(a)]. These processes caused the off-gas ducts to become chemically contaminated. The ducts are believed to have been removed. Building TA-8-2 [8-001(b)] was also used in the production of HE, but the status of the off-gas system is unknown. The buildings may potentially contain small amounts of residual HE from leaks in the ducts.

WASTE INFORMATION

Chemicals used in these processes included terphenyl and alpha naphthyl phenyl oxasole which were added as scintillators to styrene. Methyl chloroform was also used. Flammable residues were possible from work with styrene. HE formulation work was also conducted.

RELEASE INFORMATION

Information on hazardous releases is lacking.

DRAFT

8-002 FIRING SITE

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1943 - 1945

UNIT INFORMATION

A gun firing site was believed to have been located south of TA-8-1 and east of TA-8-23 and was used during the war for gun firing tests. A three-inch gun was fired in 1943, and at the end of 1943 and beginning of 1944 a series of ballistic tests were performed. Some of the projectiles contained uranium cores. Tests of large guns were also performed.

WASTE INFORMATION

Some of the projectiles contained uranium and possibly lead.

RELEASE INFORMATION

Above-background levels of radioactivity are present at the site. It is unknown whether a hazardous release has occurred.

DRAFT

8-003 INACTIVE SEPTIC TANKS

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The inactive septic tanks in TA-8 include:

STRUCTURE	SWMU NO.	CAPACITY/DIMENSIONS	CONSTRUCTION	BUILT/ABANDONED	BUILDING SERVED
TA-8-59	8-003(a)	5'10" x 10'4" x 6'	reinforced concrete	1943/unknown	TA-8-1
TA-8-64	8-003(b)	500 gallons	steel	1949/1949	TA-8-11
TA-8-67	8-003(c)	500 gallons	not available	1949/1968	TA-8-9

Currently, domestic sewage is routed to TA-9. TA-8-67 has been filled with earth.

WASTE INFORMATION

The tanks handled sanitary waste. In addition, liquids in tanks TA-8-59 and -67 may have contained spent photoprocessing solutions, chemicals, and HE residues.

RELEASE INFORMATION

The extent of possible hazardous releases from the septic systems is not known.

DRAFT

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's - 1960's

UNIT INFORMATION

It was the practice in the 1960's to dispose of water-miscible solvents, acids, alkali, and other chemicals in laboratory sinks and drains after they were diluted with water. In 1972, a recommendation was made to seal and mark the floor drains in Buildings 1, the east bay of 2, and 3 [8-004(a),(b),(c)] as explosive-contaminated, as well as the sumps outside of Building 3. The drains in Building TA-8-24 are reported to be contaminated with strontium-90 [8-004(d)].

WASTE INFORMATION

The waste in Buildings 1, 2, and 3 drains consisted of HE residues and chemicals. TA-8-24 drains contain strontium-90 from wash water that was poured down the drain.

RELEASE INFORMATION

Drain release points for Buildings 1, 2, and 3, are unknown. A drain from TA-8-24 is believed to have connected to a septic tank, TA-9-81.

DRAFT

B-005 WASTE STORAGE VESSEL

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1960's - PRESENT

UNIT INFORMATION

A vessel believed to contain crystal-growing residues is located outside, west of TA-8-2.

WASTE INFORMATION

The waste is suspected to contain crystal residues consisting of some type of naphthol compound.

RELEASE INFORMATION

There have been no known hazardous releases from this vessel.

DRAFT

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. LATE 1940's

UNIT INFORMATION

MDA-Q is located to the south of TA-8-1 and to the east of TA-8-23 [8-006(a)]. Although specific information is lacking, it is believed to be a pit approximately 30 feet square. The landfill was used to dispose of waste from the gun firing area. An old, undated memo suggests a waste disposal area was present west of TA-8-21 [8-006(b)]. During construction of a building complex, an old waste disposal site was uncovered which may have been the area referenced in the memo. The disposal site was not removed during the excavation.

WASTE INFORMATION

The waste in MDA-Q, and possibly the landfill west of TA-8-21, consists of gun barrels, projectiles, and casings. Some HE and uranium residues may be contaminants associated with the debris.

RELEASE INFORMATION

There have been no known releases from either disposal area.

DRAFT

8-007 SILVER RECOVERY RESIN BED

SUMMARY

LOCATION: TA-8
TYPE OF UNIT(s): OTHER: RESIN BED
UNIT USE: TREATMENT/RECOVERY
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1970's - PRESENT

UNIT INFORMATION

In TA-8-22 spent photo solutions containing silver pass through ion exchange resin bead units where the silver is removed. The spent resins are collected for silver recovery. The cannisters which contain the beads are approximately 12" high with a 4" O.D.

WASTE INFORMATION

The waste liquids are from processing x-ray film.

RELEASE INFORMATION

The treated liquid is released through an outfall. Before the silver recovery unit was installed, the solutions containing silver were discharged to the outfall.

DRAFT

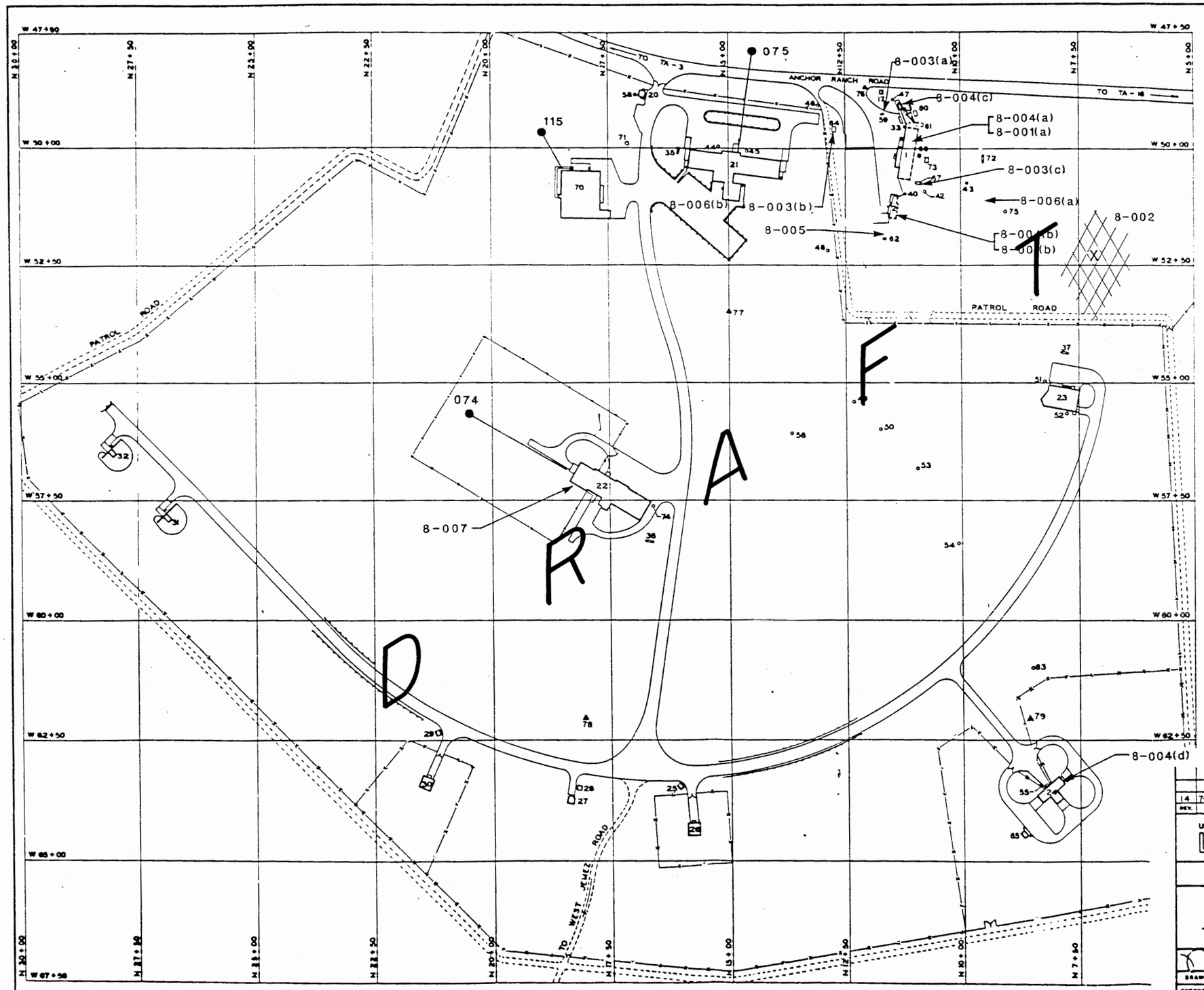
TA-8 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
8-001(a)	8-1
8-001(b)	8-1
8-002	8-1
8-003(a)	8-1
8-003(b)	8-1
8-003(c)	8-1
8-004(a)	8-1
8-004(b)	8-1
8-004(c)	8-1
8-004(d)	8-1
8-005	8-1
8-006(a)	8-1, 8-2
8-006(b)	8-1, 8-2
8-007	8-1

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 02 01 B83



EXPLANATION

8-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

UNCLASSIFIED

NOTES

UNIT 8-002 LOCATION IS APPROXIMATE.

FIGURE 8-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-8

SCALE

REV.	DATE	REVISION	BY	CHK.	APP.
14	7-27-93	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-93	HS		DR

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-8 ANCHOR SITE WEST

SEC. CLASSIFICATION: CLASS. U

REVIEWED

DATE 4-23-93

SUBMITTED

RECOMMENDED

APPROVED

DRAWN

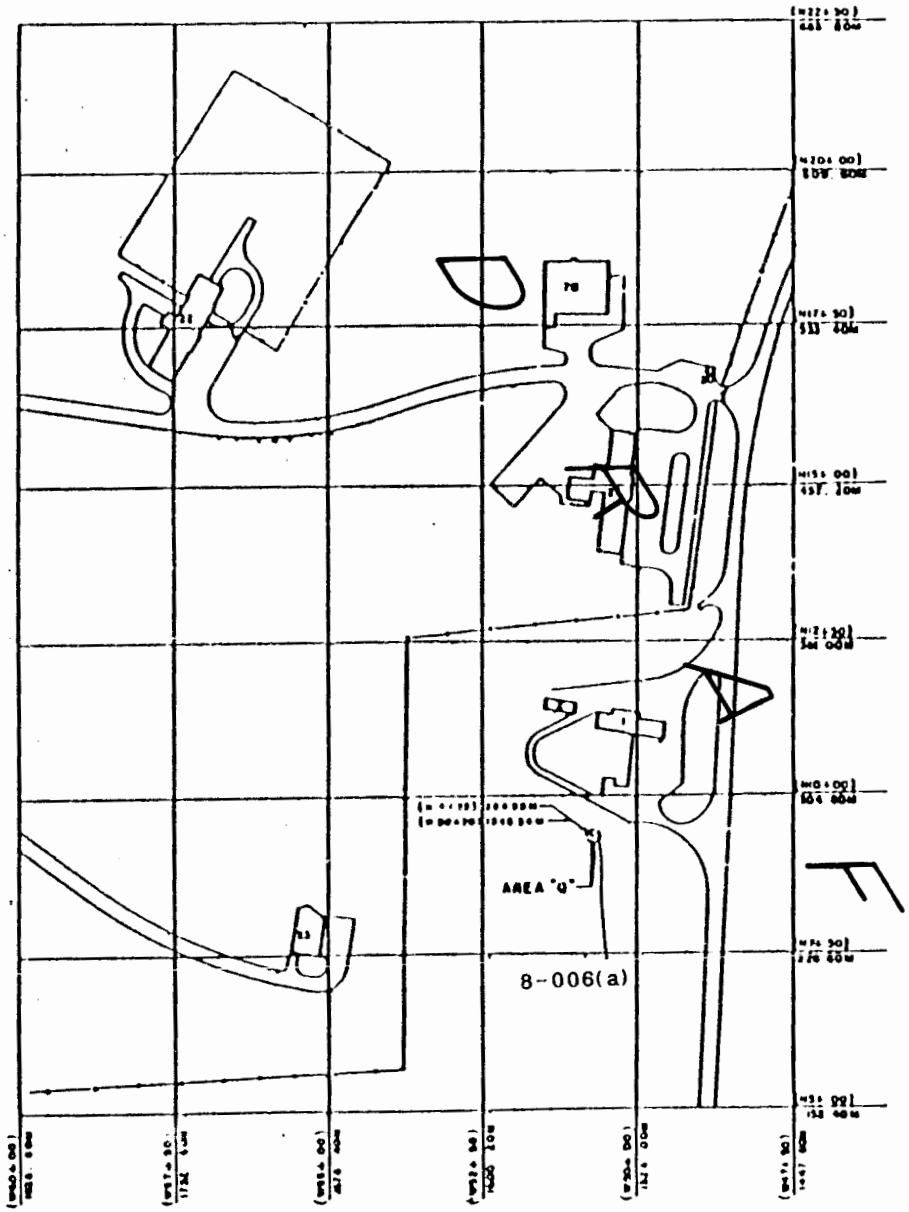
CHECKED

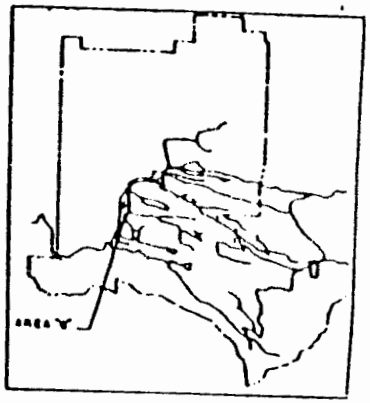
DATE 7-27-93

SHEET NO. 1 OF 1

DRAWING NO. ENG-R5106

301215 02 01 A31





LOCATION PLAN

EXPLANATION

8-001 SWMU LOCATION

FIGURE 8-2

MATERIAL DISPOSAL AREA Q, TA-8

UNCLASSIFIED

301215 02 01 B59

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-8-1	AW-1	LABORATORY & SHOP BLDG.		N10+00W50+00
TA-8-2	AW-2	SHOP & STORAGE BLDG.		N12+50W52+50
TA-8-3	AW-3	LABORATORY BUILDING		N10+00W50+00
TA-8-4	AW-4		REMOVED 1950	
TA-8-5	AW-5		REMOVED 1950	
TA-8-6	AW-6		REMOVED 1948	
TA-8-7	AW-7		REMOVED 1955	
TA-8-8	AW-8		REMOVED 1968	
TA-8-9	AW-9		REMOVED 1968	
TA-8-10	AW-10		REMOVED 1950	
TA-8-11	AW-11		REMOVED 1950	
TA-8-12	AW-12		REMOVED 1950	
TA-8-13	AW-13		REMOVED 1950	
TA-8-14	AW-14		REMOVED 1955	
TA-8-15	AW-15		REMOVED 1950	
TA-8-16	AW-16		REMOVED 1949	
TA-8-17	AW-17	MANHOLE, WATER	ABANDONED 1955	N12+50W50+00
TA-8-18	AW-18		REMOVED 1950	
TA-8-19	AW-19		REMOVED 1949	
TA-8-20	AW-20	GUARD HOUSE	CONST. NO. 89	N17+50W47+50
TA-8-21	AW-21	LABORATORY & OFFICE BLDG.	CONST. NO. 88	N15+00W50+00
TA-8-22	AW-22	X-RAY BUILDING	CONST. NO. 81	N17+50W57+50
TA-8-23	AW-23	BETATRON BUILDING	CONST. NO. 82	N 7+50W55+00
TA-8-24	AW-24	ISOTOPE BUILDING	CONST. NO. 83	N 7+50W62+50
TA-8-25	AW-25	UTILITY BUILDING	CONST. NO. 84-A-1	N15+00W62+50
TA-8-26	AW-26	RADIATION LABORATORY	CONST. NO. 84-A	N15+00W65+00
TA-8-27	AW-27	VAULT	CONST. NO. 85	N17+50W62+50
TA-8-28	AW-28	UTILITY BUILDING		N17+50W62+50
TA-8-29	AW-29	UTILITY BUILDING	CONST. NO. 84-B-1	N20+00W62+50
TA-8-30	AW-30	RADIATION LABORATORY	CONST. NO. 84-B	N22+50W62+50
TA-8-31	AW-31	MAGAZINE	CONST. NO. 86-A	N27+50W57+50
TA-8-32	AW-32	MAGAZINE	CONST. NO. 86-B	N27+50W57+50
TA-8-33	AW-33	BARRICADE		N12+50W50+00
TA-8-34	AW-34		REMOVED 1947	
TA-8-35	AW-35	TRANSFORMER STATION		N15+00W50+00
TA-8-36	AW-36	TRANSFORMER STATION		N17+50W57+50
TA-8-37	AW-37	TRANSFORMER STATION		N 7+50W55+00
TA-8-38	AW-38		REMOVED 1968	
TA-8-39	AW-39		REMOVED 1955	
TA-8-40	AW-40	ROAD BLOCK		N10+00W50+00
TA-8-41	AW-41		REMOVED 1955	
TA-8-42	AW-42	MANHOLE, ELECTRICAL	ABANDONED 1968	N10+00W50+00
TA-8-43	AW-43	MANHOLE, ELECTRICAL	ABANDONED 1968	N10+00W50+00
TA-8-44	AW-44	MANHOLE, SANITARY		N15+00W50+00
TA-8-45	AW-45	MANHOLE, STORM		N15+00W50+00
TA-8-46	AW-46	MANHOLE, SANITARY		N12+50W50+00
TA-8-47	AW-47	MANHOLE, ELECTRICAL		N12+50W50+00
TA-8-48	AW-48	MANHOLE, SANITARY		N12+50W52+50
TA-8-49	AW-49	MANHOLE, SANITARY		N12+50W55+00
TA-8-50	AW-50	MANHOLE, SANITARY		N12+50W55+00
TA-8-51	AW-51	MANHOLE, SANITARY		N 7+50W55+00
TA-8-52	AW-52	MANHOLE, SANITARY		N 7+50W55+00
TA-8-53	AW-53	MANHOLE, SANITARY		N10+00W57+50
TA-8-54	AW-54	MANHOLE, SANITARY		N10+00W57+50
TA-8-55	AW-55	MANHOLE, SANITARY		N 7+50W62+50
TA-8-56	AW-56	MANHOLE, SANITARY		N12+50W55+00
TA-8-57	AW-57		REMOVED 1965	
TA-8-58	AW-58	MANHOLE, SANITARY		N17+50W47+50
TA-8-59	AW-59	TANK, SEPTIC		N12+50W50+00
TA-8-60	AW-60	TANK, FUEL		N10+00W50+00
TA-8-61	AW-61	TANK, FUEL		N10+00W50+00
TA-8-62	AW-62	DROP INLET, STORM DRAIN		N12+50W52+50
TA-8-63	AW-63	MANHOLE, SANITARY		N10+00W60+00
TA-8-64	AW-64	TANK, SEPTIC	ABANDONED 1949	N12+50W50+00
TA-8-65	AW-65	SOURCE STORAGE BUILDING		N10+00W65+00
TA-8-66	AW-66	MANHOLE, STEAM		N10+00W50+00
TA-8-67	AW-67	TANK, SEPTIC	ABANDONED 1968	N10+00W50+00
			CANCELLED	
			CANCELLED	
TA-8-70	AW-70	NON-DESTRUCTIVE TEST FAC		N17+50W50+00
TA-8-71	AW-71	MANHOLE, SANITARY		N17+50W50+00
TA-8-72	AW-72	TRANSFORMER STATION		N10+00W50+00
TA-8-73	AW-73	CRAFT SHACK	FORMERLY TA-49-6	N10+00W50+00
TA-8-74	AW-74	MANHOLE, SANITARY		N17+50W57+50
TA-8-75	AW-75	MANHOLE, ELECTRICAL CONTROL		N10+00W52+50
TA-8-76	AW-76	TRANSFORMER STATION		N12+50W47+50
TA-8-77	AW-77	TRANSFORMER STATION		N15+00W52+50
TA-8-78	AW-78	TRANSFORMER STATION		N17+50W62+50
TA-8-79	AW-79	TRANSFORMER STATION		N 7+50W62+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

UNCLASSIFIED

FIGURE 8-3

TA-8 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD.	APP.
15	9-19-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-20-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-8 ANCHOR SITE WEST

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED | RECOMMENDED | APPROVED

DRAWN | CHECKED | DATE 8-18-83 | SHEET NO 1 OF 2 | DRAWING NO ENG-R 5106

TA-9

OPERATIONS AND ENVIRONMENTAL SETTING

The old part of Technical Area (TA) 9 (Anchor Site East) has been unused since the 1950's and no buildings remain at the site. Facilities at the site included an x-ray laboratory to study charges, open and closed firing chambers, high explosive casting, magazines, solvent storage, and a chemical pilot plant. Chemicals that may have been present were those used in production of HE such as solvents, organics, acids, and plasticizers. Also present were probably uranium, cyanogen, as well as the HE used in tests.

This area lies east of TA-8 on a mesa formed between branches of Pajarito Canyon at about 7,550 feet asl. Canyons are not as deeply incised nor are their walls marked by as steep slopes and cliffs as the finger mesas further east on the Pajarito Plateau. The area lies in the Ponderosa Pine/Mixed Conifer overstory vegetation zone. The soils, described as Carjo loam, are moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water-holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential, measured as the soil loss from a two-year, 30-minute event on bare soil, is moderate (0.14 to 0.51 cm).

To the south of the old section of TA-9 lies the new section. This area is now occupied by the Explosives Technology Group, which is involved with the development and testing of explosives and other special materials. Activities at TA-9 include organic synthesis of explosives, pressing and machining explosives, handling and synthesis of plastic-bonded explosives. Explosives, brass, steel, aluminum, graphite, and plastics are also machined at TA-9. Radionuclides are handled at this facility.

The presently active TA-9, at altitudes between about 7,500 and 7,555 feet asl, is located near the northwestern boundary of the laboratory on a broad mesa top bounded on the north and east by small branches of Pajarito Canyon and on the south by Canon de Valle. The canyon walls range from steep to moderate slopes in this area. The area is within the Ponderosa Pine overstory vegetation zone. The area is underlain by welded Bandelier Tuff. The soils

here, too, are described as Carjo loam, are moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential, measured as the soil loss from a two-year, 30-minute event on bare soil, is moderate (0.14 to 0.51 cm).

The potentiometric surface of the main aquifer in the Los Alamos region lies at 6,200 feet asl, or higher at TA-9. Over 1,000 feet of unsaturated tuff and volcanic rock separate the surface from the aquifer. There is little potential for downward flow from the surface because of the low moisture conditions of the tuff.

DRAFT

SUMMARY

LOCATION: TA-9(AE)
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Firing sites at the original TA-9 included TA-9(AE)-4, -5, and -15 [9-001(a), (b), and (c)] as well as an open chamber in TA-9(AE)-1 [9-001(d)]. The sites were used for field testing of explosive charges. TA-9(AE)-4, completed in 1944, was 8' x 10' x 8' high of reinforced concrete with metal doors and an earth berm on three sides. TA-9(AE)-5, completed in 1947, was 10' x 12' x 8' high of reinforced concrete, metal doors and earth berm on three sides. TA-9(AE)-15 was completed in 1943, 12' x 12' x 8' with timbered sides covered with a 3/4" steel plate and metal cover. For TA-9(AE)-1, completed in 1943, the firing chamber was steel faced concrete.

WASTE INFORMATION

The waste was residues of HE, steel, aluminum, and possibly tungsten carbide and uranium.

RELEASE INFORMATION

The radioactive contaminated portion of TA-9(AE)-1 is believed to have been taken to the radioactive material disposal area (probably MDA-C) in 1965. Firing areas TA-9(AE)-4, -5, and -15 were burned in 1960, and the debris was later removed. Documentation has not been found describing in detail the decommissioning procedures for these sites.

DRAFT

9-002 BURN PIT (DECOMMISSIONED AREA)

SUMMARY

LOCATION: TA-9(AE)
TYPE OF UNIT(s): PIT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1940's - 1950's

UNIT INFORMATION

The exact location of this unit, a burn pit, is not known. It is known that the pit was used for incineration of classified and no-longer-needed material. The pit was apparently an irregularly shaped excavation about 20' x 40' x 3' deep. The frequency of use is not known.

WASTE INFORMATION

Specific composition or final fate of the burned material is not known.

RELEASE INFORMATION

The only known releases associated with the use of this unit are combustion products.

DRAFT

9-003 DECOMMISSIONED SUMPS

SUMMARY

LOCATION: TA-9(AE)
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Industrial sumps and associated drains were located in TA-9:

STRUCTURE	SWMU NO.	BUILT	DECOMMISSIONED	DIMENSIONS
TA-9-83	9-003(a)	1943	1965	4' x 4' x 4' deep
TA-9-84	9-003(b)	1943	1965	4' x 5' x 3' deep
TA-9-85	9-003(c)	1943(est.)	1987	unknown
TA-9-88	9-003(d)	1943	1965	4' x 7' x 7' deep
TA-9-62	9-003(e)	1950	1965	4'2" x 4'2" x 4'10" deep
TA-9-199	9-003(f)	1952	1952	unknown

All of these sumps and their associated drain lines, with the exception of TA-9-199, were built of reinforced concrete and were decommissioned in 1965 by removal and burial at TA-54; the construction, dimensions, and decommissioning of TA-9-199 is unknown. Drain/sump TA-9-83 served Building TA-9-14; drain/sump TA-9-84 served Building TA-9-12; and TA-9-199 served the Test Laboratory, TA-9-51. Sump TA-9-62 was a basket washing sump. Additionally, it is possible that other sanitary septic tanks, industrial sumps, and drain lines served Buildings AE-1, -2, -3, -13, and -14. These buildings housed HE formulations, experiments, and manufacturing operations. During a utility upgrade in 1985, excavations uncovered an additional structure, possibly TA-9-85, and drain lines that had not been removed in 1965. The structure and drain lines were removed during the utility upgrade.

WASTE INFORMATION

The industrial wastes received by the sumps and drain lines contained HE residues and possibly solvents and other chemicals used in the manufacture of HE. Small quantities of radionucludes may have been present in some waste streams.

RELEASE INFORMATION

There is no evidence that surrounding soils were sampled during decommissioning.

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1952 - PRESENT

UNIT INFORMATION

The following sumps in TA-9 are currently active:

STRUCTURE	SWMU NO.	DIMENSIONS (APPROXIMATE)	BUILDING SERVED	OUTFALL NPDES #
TA-9-184	9-004(a)		TA-9-21	05A066
TA-9-185	9-004(b)		TA-9-21	05A066
TA-9-186	9-004(c)	13' x 3' x 5' deep	TA-9-37	05A067
TA-9-187	9-004(d)	13' x 3' x 5' deep	TA-9-38	05A067
TA-9-188	9-004(e)	13' x 3' x 5' deep	TA-9-45	05A067
TA-9-189	9-004(f)	13' x 3' x 5' deep	TA-9-46	05A067
TA-9-190	9-004(g)		TA-9-50	buried outfall
TA-9-191	9-004(h)	13' x 3' x 5' deep	TA-9-32	05A066
TA-9-192	9-004(i)	13' x 3' x 5' deep	TA-9-33	05A066
TA-9-193	9-004(j)		TA-9-34	05A067
TA-9-194	9-004(k)		TA-9-35	05A067
TA-9-195	9-004(l)		TA-9-40	05A066
TA-9-196	9-004(m)		TA-9-42	05A067
TA-9-197	9-004(n)		TA-9-43	05A067
TA-9-198	9-004(o)		TA-9-48	05A068

DRAFT

WASTE INFORMATION

The waste is primarily HE residues and may also contain acids, chemicals and solvents, particularly from past operations.

RELEASE INFORMATION

Pieces of HE caught in the baffles are taken to TA-16 for burning. Soils sampled 0.5 meters from the sump TA-9-198 outfall contain 2.6% acetone solubles and <2.5% (by weight) total HE. Other units may have released hazardous waste as the settling basin serving TA-9-45 was destroyed by acids placed in the drain.

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The following are active and inactive septic tanks in TA-9:

STRUCTURE	SWMU NO.	BUILT	BUILDING SERVED	CONSTRUCTION DIMENSIONS	STATUS	OVERFLOW
TA-9-81	9-005(a)	1950	TA-8		abandoned 1970	leach field
TA-9-105	9-005(b)	1952			inactive	
TA-9-106	9-005(c)	1952			inactive	
TA-9-211	9-005(d)	1961(est.)		concrete, 4'x 30'x 6' deep 4000 gallon	abandoned	
TA-9-107	9-005(e)	1952	TA-9-42,-43,-41,-45,-46	540 gallon	active	NPDES outfall
TA-9-108	9-005(f)	1952	TA-9-48	1360 gallon	active	NPDES outfall
TA-9-109	9-005(g)	1952	TA-9-50	600 gallon	active	buried outfall
TA-9-110	9-005(h)	1952	TA-9-51	425 gallon	active	outfall

WASTE INFORMATION

The waste is generally sewage. There is some possibility that spent photo solutions and small quantities of industrial waste were, at times, discharged to these septic systems. A spill in TA-8 may have resulted in strontium-90 in the drainfield of TA-9-81.

RELEASE INFORMATION

The active septic systems have overflows to outfalls; inactive septic systems overflowed to seepage fields or drain lines. Some strontium-90 was released in washwater to the drains at TA-8; thus the drainfield of TA-9-81 may have received strontium-90.

9-006 DECOMMISSIONED SEPTIC SYSTEM

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1943 - 1965

UNIT INFORMATION

Septic tank renumbered TA-9-203, was built in 1943 of reinforced concrete with a wood cover. The dimensions of the tank were 4' x 9' x 4'. It was reported to have been removed in 1965. The tank served Building TA-9-3, and it is the only septic tank that has been identified for the old original TA-9 buildings.

WASTE INFORMATION

The waste handled by this septic tank was primarily sanitary although there is a possibility that spent photoprocessing solutions and other small quantities of industrial wastes were occasionally discharged to the tank.

RELEASE INFORMATION

The tank probably overflowed to a seepage field or an open drain; it is unknown whether a release beyond the seepage field or outfall has occurred.

DRAFT

9-007 INACTIVE SUMP

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1952 - ?

UNIT INFORMATION

Sump TA-9-202 is a basket pit that was built in 1952 of reinforced concrete and served Building 51 (the Environmental Test Chamber). The dimensions of the sump are 4'3" x 3'8" x 7' deep. This sump appears to have replaced TA-9-199. It is believed to be inactive. According to CEARP, the sump is contaminated with HE.

WASTE INFORMATION

The waste consisted of HE residues.

RELEASE INFORMATION

It is unknown whether there has been a hazardous release from this unit.

DRAFT

9-008 OXIDATION POND

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1960's - 1980's

UNIT INFORMATION

TA-9-212 is an inactive oxidation pond with clay plating and emulsified asphalt waterproofing that is about 65' x 15' x 6' deep with overflow and drain lines. It is surrounded by a 8' high chain-link fence.

WASTE INFORMATION

The pond received sanitary waste. It is unknown whether the waste contained hazardous constituents.

RELEASE INFORMATION

The pond drained to an outfall. It is unknown whether hazardous materials were released to the outfall.

DRAFT

9-009 LAGOON AND SAND FILTER

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A lagoon, TA-9-218, and sand filter are used to treat sanitary waste from Buildings TA-9-20, -28, -29, -21, -32, -33, -34, -37, -35, and -38 at TA-9 and TA-8 sanitary waste. The lagoon is 62' x 39' x 7' deep. After flowing through the sand filter, the effluent is discharged to a NPDES-permitted outfall.

WASTE INFORMATION

The lagoon receives sanitary waste and possibly spent photo processing solutions. In previous years small amounts of industrial liquids may have been discharged to the lagoon.

RELEASE INFORMATION

It is unknown whether hazardous waste has been discharged.

DRAFT

9-010 WASTE CAN SHELTERS

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: UNKNOWN
PERIOD OF USE: 1961 - ?

UNIT INFORMATION

Structure TA-9-48 was built in 1961 and is described as waste can shelters. The structure has a steel frame construction with corrugated steel siding; 2'6" x 11' x 6'6" average height.

WASTE INFORMATION

The wastes stored in this structure consist of HE-contaminated rags which are burned at TA-16. Waste solvents may also be stored here.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from these units.

DRAFT

9-011 ACTIVE CONTAINER STORAGE AREAS

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

According to the LANL container storage area database, there are three active container storage areas in two buildings in TA-9; 1) TA-9-21 [9-011(a)] has satellite storage; 2) TA-9-39 [9-011(b)] has satellite storage area. A November 1988 field survey identified an additional storage area on the south side of TA-9-38 [9-011(c)], which contained 2 drums.

WASTE INFORMATION

The waste stored in the TA-9-21 and -39 areas is unknown. The storage area near TA-9-38 stores iso-butyl acetate and methyl sub-oxide.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from these units.

DRAFT

9-012 POSSIBLE WASTE PIT

SUMMARY

LOCATION: TA-9
TYPE OF UNIT(s): WASTE PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

Engineering file 1757 indicates a possible waste pit in TA-9. It is unknown whether the pit was located in the old TA-9 or the new TA-9, or even if the disposal area existed. It has not been found during field surveys.

WASTE INFORMATION

The type of waste is unknown.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred from this disposal area.

DRAFT

TA-9 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
9-001(a)	9-1
9-001(b)	9-1
9-001(c)	9-1
9-001(d)	9-1
9-002	Not shown, location unknown
9-003(a)	9-1
9-003(b)	9-1
9-003(c)	9-1
9-003(d)	9-1
9-003(e)	9-1
9-003(f)	9-1
9-004(a)	9-2
9-004(b)	9-2
9-004(c)	9-2
9-004(d)	9-2
9-004(e)	9-2
9-004(f)	9-2
9-004(g)	9-2
9-004(h)	9-2
9-004(i)	9-2
9-004(j)	9-2
9-004(k)	9-2
9-004(l)	9-2
9-004(m)	9-2
9-004(n)	9-2
9-004(o)	9-2
9-005(a)	9-2
9-005(b)	9-2
9-005(c)	9-2
9-005(d)	9-2
9-005(e)	

DRAFT

TA-9 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
9-005(f)	9-2
9-005(g)	9-2
9-005(h)	9-2
9-006	Not shown, location unknown
9-007	9-2
9-008	9-3
9-009	9-2
9-010	9-2
9-011(a)	9-2
9-011(b)	9-2
9-011(c)	9-1
9-012	Not shown, location unknown

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

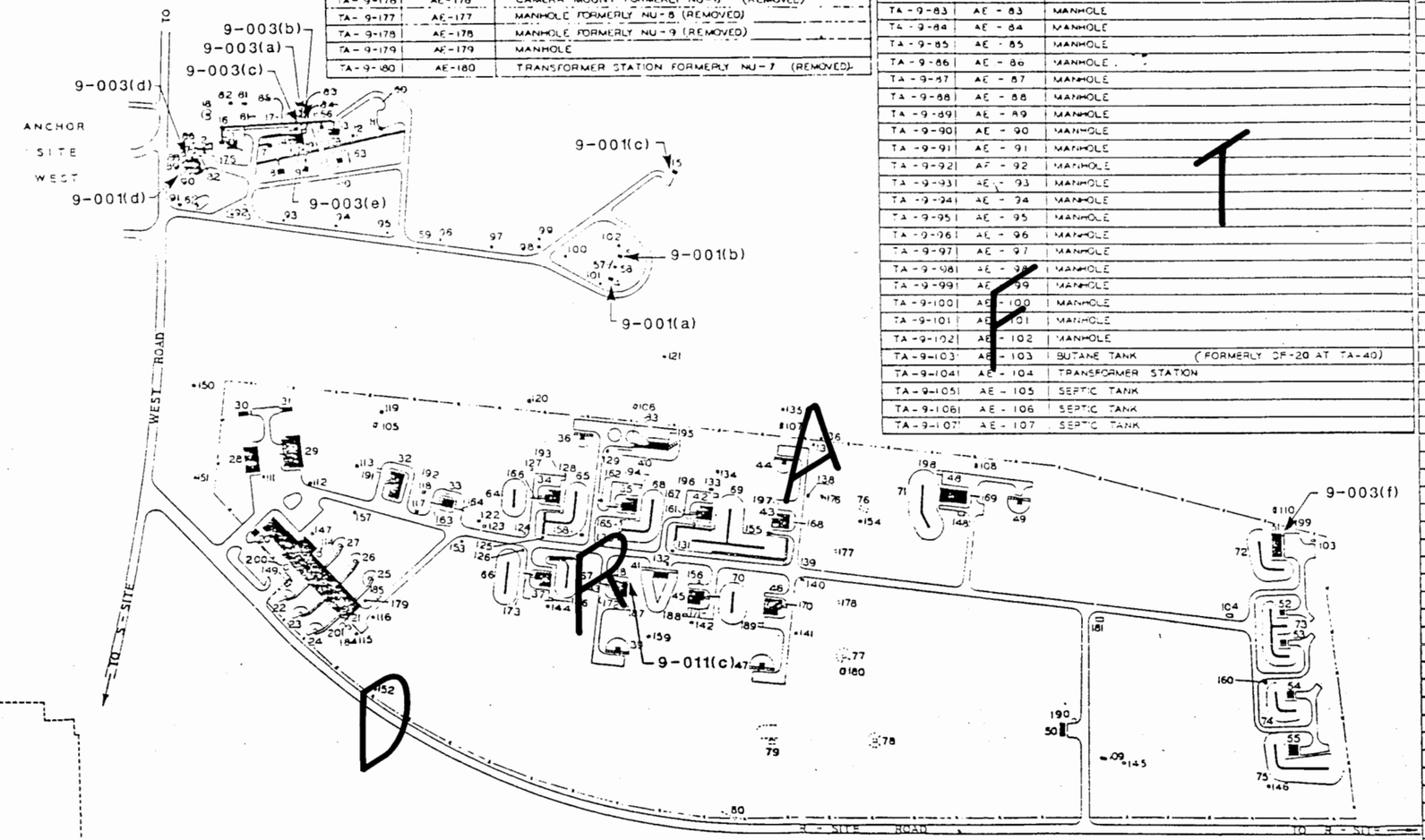
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-181	AE-181	GUARD HOUSE
TA-9-182	AE-182	FUEL TANK
TA-9-183	AE-183	ROAD BLOCK
TA-9-184	THRU	TA-9-199 SETTLING TANKS
TA-9-200	AE-200	MANHOLE
TA-9-201	AE-201	MANHOLE

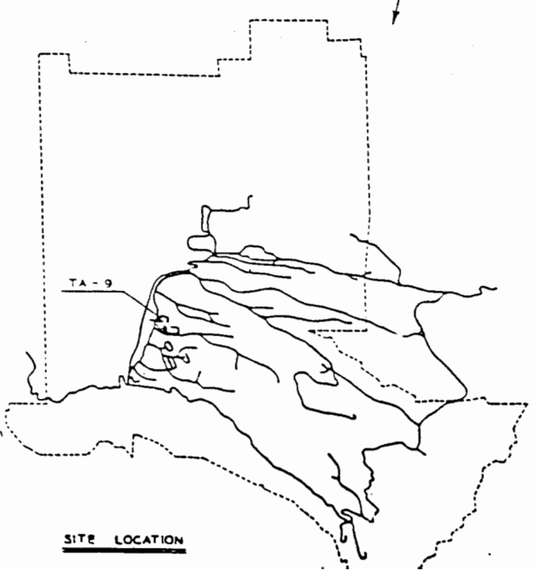
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-108	AE-108	SEPTIC TANK
TA-9-109	AE-109	SEPTIC TANK
TA-9-110	AE-110	SEPTIC TANK
TA-9-111	THRU	TA-9-147 MANHOLES
TA-9-148	AE-148	PUMPING STA
TA-9-149	AE-149	TRANSFORMER STATION
TA-9-150	THRU	TA-9-161 MANHOLES
TA-9-162	AE-162	WIGWAG
TA-9-163	THRU	TA-9-173 ROAD BLOCKS
TA-9-174	AE-174	BARRICADE
TA-9-175	AE-175	MANHOLE
TA-9-176	AE-176	CAMERA MOUNT FORMERLY NU-6 (REMOVED)
TA-9-177	AE-177	MANHOLE FORMERLY NU-8 (REMOVED)
TA-9-178	AE-178	MANHOLE FORMERLY NU-9 (REMOVED)
TA-9-179	AE-179	MANHOLE
TA-9-180	AE-180	TRANSFORMER STATION FORMERLY NU-7 (REMOVED)

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-71	AE-71	BARRICADE
TA-9-72	AE-72	BARRICADE
TA-9-73	AE-73	BARRICADE
TA-9-74	AE-74	BARRICADE
TA-9-75	AE-75	BARRICADE
TA-9-76	AE-76	LABORATORY, FORMERLY NU-4 (REMOVED)
TA-9-77	AE-77	OFFICE BLDG., FORMERLY NU-3 (REMOVED)
TA-9-78	AE-78	MAGAZINE, FORMERLY NU-2 (REMOVED)
TA-9-79	AE-79	LABORATORY, FORMERLY NU-1 (REMOVED)
TA-9-80	AE-80	ROAD BLOCK, FORMERLY NU-5 (REMOVED)
TA-9-81	AE-81	SEPTIC TANK
TA-9-82	AE-82	MANHOLE
TA-9-83	AE-83	MANHOLE
TA-9-84	AE-84	MANHOLE
TA-9-85	AE-85	MANHOLE
TA-9-86	AE-86	MANHOLE
TA-9-87	AE-87	MANHOLE
TA-9-88	AE-88	MANHOLE
TA-9-89	AE-89	MANHOLE
TA-9-90	AE-90	MANHOLE
TA-9-91	AE-91	MANHOLE
TA-9-92	AE-92	MANHOLE
TA-9-93	AE-93	MANHOLE
TA-9-94	AE-94	MANHOLE
TA-9-95	AE-95	MANHOLE
TA-9-96	AE-96	MANHOLE
TA-9-97	AE-97	MANHOLE
TA-9-98	AE-98	MANHOLE
TA-9-99	AE-99	MANHOLE
TA-9-100	AE-100	MANHOLE
TA-9-101	AE-101	MANHOLE
TA-9-102	AE-102	MANHOLE
TA-9-103	AE-103	BUTANE TANK (FORMERLY DF-20 AT TA-40)
TA-9-104	AE-104	TRANSFORMER STATION
TA-9-105	AE-105	SEPTIC TANK
TA-9-106	AE-106	SEPTIC TANK
TA-9-107	AE-107	SEPTIC TANK

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-1	AE-1	LABORATORY, FORMERLY BLDG A-2
TA-9-2	AE-2	DARKROOM - BOILER PL., FORMERLY BLDG A-2A
TA-9-3	AE-3	MIX & HYDR. PRESS., FORMERLY BLDG A-3
TA-9-4	AE-4	FIRING CHAMBER, FORMERLY BLDG A-6
TA-9-5	AE-5	FIRING CHAMBER, FORMERLY BLDG. A-7
TA-9-6	AE-6	MAGAZINE, FORMERLY BLDG A-12
TA-9-7	AE-7	STORAGE, FORMERLY BLDG. A-13
TA-9-8	AE-8	STORAGE, FORMERLY BLDG. A-14
TA-9-9	AE-9	TRIMMING BLDG., FORMERLY BLDG A-15
TA-9-10	AE-10	TRIMMING BLDG., FORMERLY BLDG A-16
TA-9-11	AE-11	MAGAZINE, FORMERLY BLDG A-17
TA-9-12	AE-12	PERSONNEL SHELTER, FORMERLY BLDG. A-18
TA-9-13	AE-13	MACHINE SHOP, FORMERLY BLDG A-19
TA-9-14	AE-14	LABORATORY, FORMERLY BLDG A-20
TA-9-15	AE-15	RECOVERY PIT, FORMERLY BLDG A-23
TA-9-16	AE-16	PUMP HOUSE, FORMERLY BLDG A-25
TA-9-17	AE-17	COVERED WALK, FORMERLY A-24
TA-9-18	AE-18	MAGAZINE, FORMERLY BLDG A-21
TA-9-19	AE-19	OVEN, FORMERLY BLDG A-22 (REMOVED)
TA-9-20	AE-20	GUARD HOUSE
TA-9-21	AE-21	LABORATORY & OFFICE BLDG
TA-9-22	AE-22	MAGAZETTE
TA-9-23	AE-23	MAGAZETTE
TA-9-24	AE-24	MAGAZETTE
TA-9-25	AE-25	MAGAZETTE
TA-9-26	AE-26	MAGAZETTE
TA-9-27	AE-27	MAGAZETTE
TA-9-28	AE-28	SHOP BLDG
TA-9-29	AE-29	STOCK & EQUIPMENT BLDG.
TA-9-30	AE-30	GAS STORAGE
TA-9-31	AE-31	GAS STORAGE
TA-9-32	AE-32	PREPARATION & GRINDING BLDG.
TA-9-33	AE-33	LABORATORY BLDG.
TA-9-34	AE-34	PROCESS LABORATORY
TA-9-35	AE-35	PROCESS LABORATORY
TA-9-36	AE-36	MAGAZINE
TA-9-37	AE-37	PROCESS LABORATORY
TA-9-38	AE-38	PROCESS LABORATORY
TA-9-39	AE-39	MAGAZINE
TA-9-40	AE-40	DRY HOUSE BLDG.
TA-9-41	AE-41	COMFORT STATION BLDG.
TA-9-42	AE-42	PROCESS LABORATORY
TA-9-43	AE-43	PROCESS LABORATORY
TA-9-44	AE-44	MAGAZINE
TA-9-45	AE-45	PROCESS LABORATORY
TA-9-46	AE-46	PROCESS LABORATORY
TA-9-47	AE-47	MAGAZINE
TA-9-48	AE-48	OPERATING BLDG.
TA-9-49	AE-49	MAGAZINE
TA-9-50	AE-50	RECEIVING & SHIPPING
TA-9-51	AE-51	TEST LABORATORY
TA-9-52	AE-52	MAGAZINE
TA-9-53	AE-53	MAGAZINE
TA-9-54	AE-54	MAGAZINE
TA-9-55	AE-55	MAGAZINE
TA-9-56	AE-56	CONTROL SHACK
TA-9-57	AE-57	BARRICADE
TA-9-58	AE-58	X-UNIT CHAMBER
TA-9-59	AE-59	ROAD BLOCK (REMOVED)
TA-9-60	AE-60	ROAD BLOCK
TA-9-61	AE-61	ROAD BLOCK
TA-9-62	AE-62	BASKET WASHING FACILITIES
TA-9-63	AE-63	BARRICADE
TA-9-64	AE-64	BARRICADE
TA-9-65	AE-65	BARRICADE
TA-9-66	AE-66	BARRICADE
TA-9-67	AE-67	BARRICADE
TA-9-68	AE-68	BARRICADE
TA-9-69	AE-69	BARRICADE
TA-9-70	AE-70	BARRICADE

(SEE COLUMN AT LEFT FOR CONTINUATION)





SITE LOCATION

EXPLANATION

9-001 SWMU LOCATION

Classification changed to OFFICIAL USE ONLY
by authority of the U. S. Atomic Energy Commission,
Per R.C.SMITH 10-4-54
(Person authorizing change in classification) (Date)
By Ruben N. Cisneros SEP 30 1956
(Signature of person making the change, and date)

NORTH (MAGNETIC)

FIGURE 9-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-9

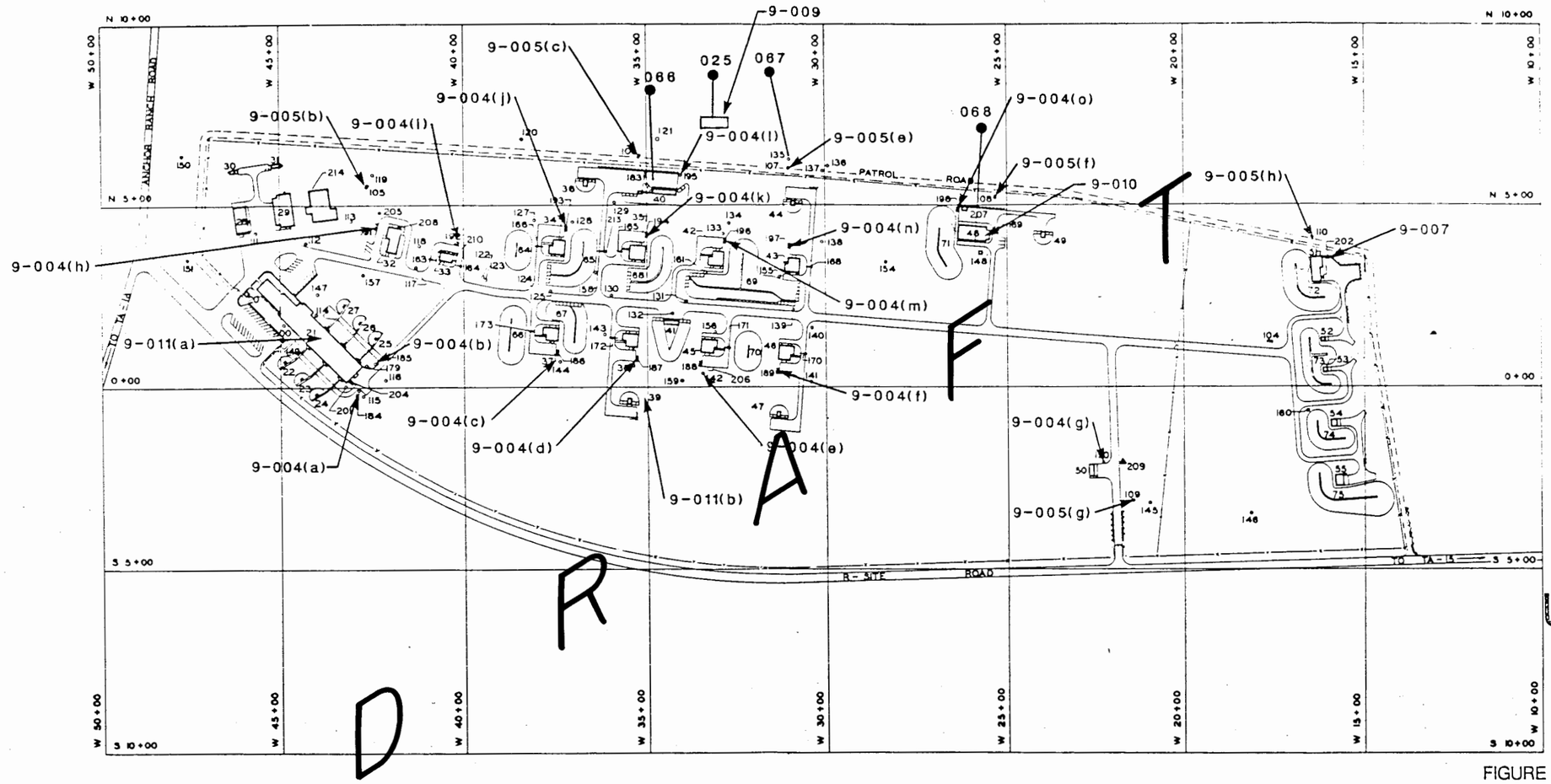
~~CONFIDENTIAL~~

UNCLASSIFIED

REV.		AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY ENGINEERING DEPARTMENT
4	GENERAL REVISION TO STATUS OF JULY 1, 1952 JTH 8-22-52	HEALTH, SAFETY, FIRE PR., COMM., SEC.	STRUCTURE LOCATION PLAN TA-9 ANCHOR SITE EAST
	GENERAL REVISION TO STATUS OF JULY 1, 1951		SCALE / DRAWN BY: J.A SIZER / DATE: 1-31-51 / DWG. NO.

375

301215 02 01 B114



UNCLASSIFIED

FIGURE 9-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-9

EXPLANATION

9-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

200' 100' 0 200' 400' 600'

SCALE

TRUE NORTH
MAG NORTH
MAG DECLINATION

REV	DATE	REVISION	BY	CKD	APP
15	7-27-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-9 ANCHOR SITE EAST

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 4-25-85

SUBMITTED / RECOMMENDED / APPROVED

DRAWN / CHECKED

DATE 7-27-83 SHEET NO 2 of 2 DRAWING NO ENG-R5107

301215 02 01 B156

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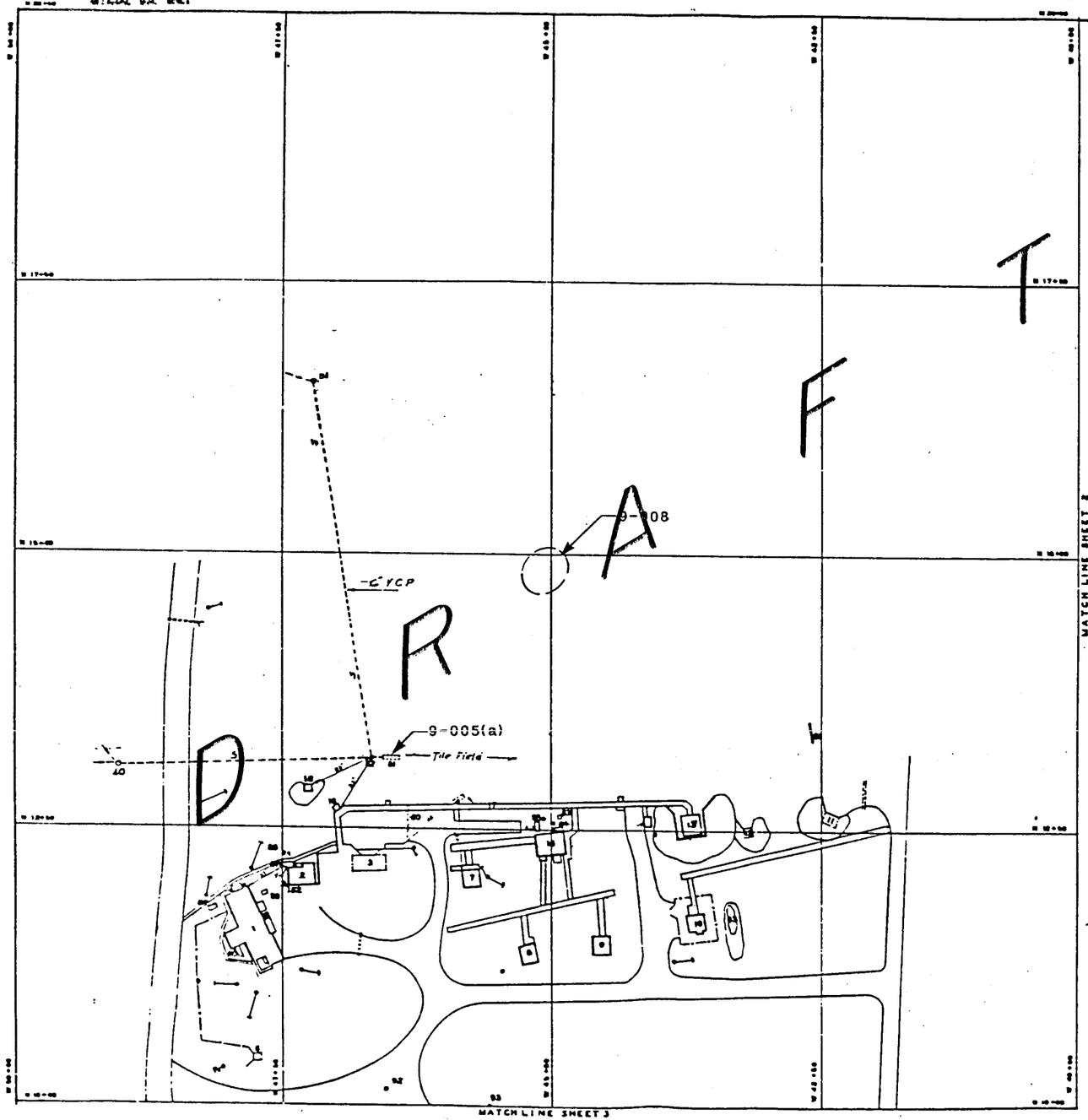
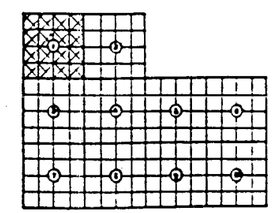


EXPLANATION

9-001 SWMU LOCATION



REFERENCE HARD SHEET

LEGEND

- S — Sewer
- C — Cleanout
- I — Industrial Waste
- D — Storm Drain

FIGURE 9-3

INDEX TO SHEETS NO SCALE

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-9

NO.	DATE	REVISIONS	BY	CHECK		
1	8-7-98	Revised per Field Check Sheet	SR			

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

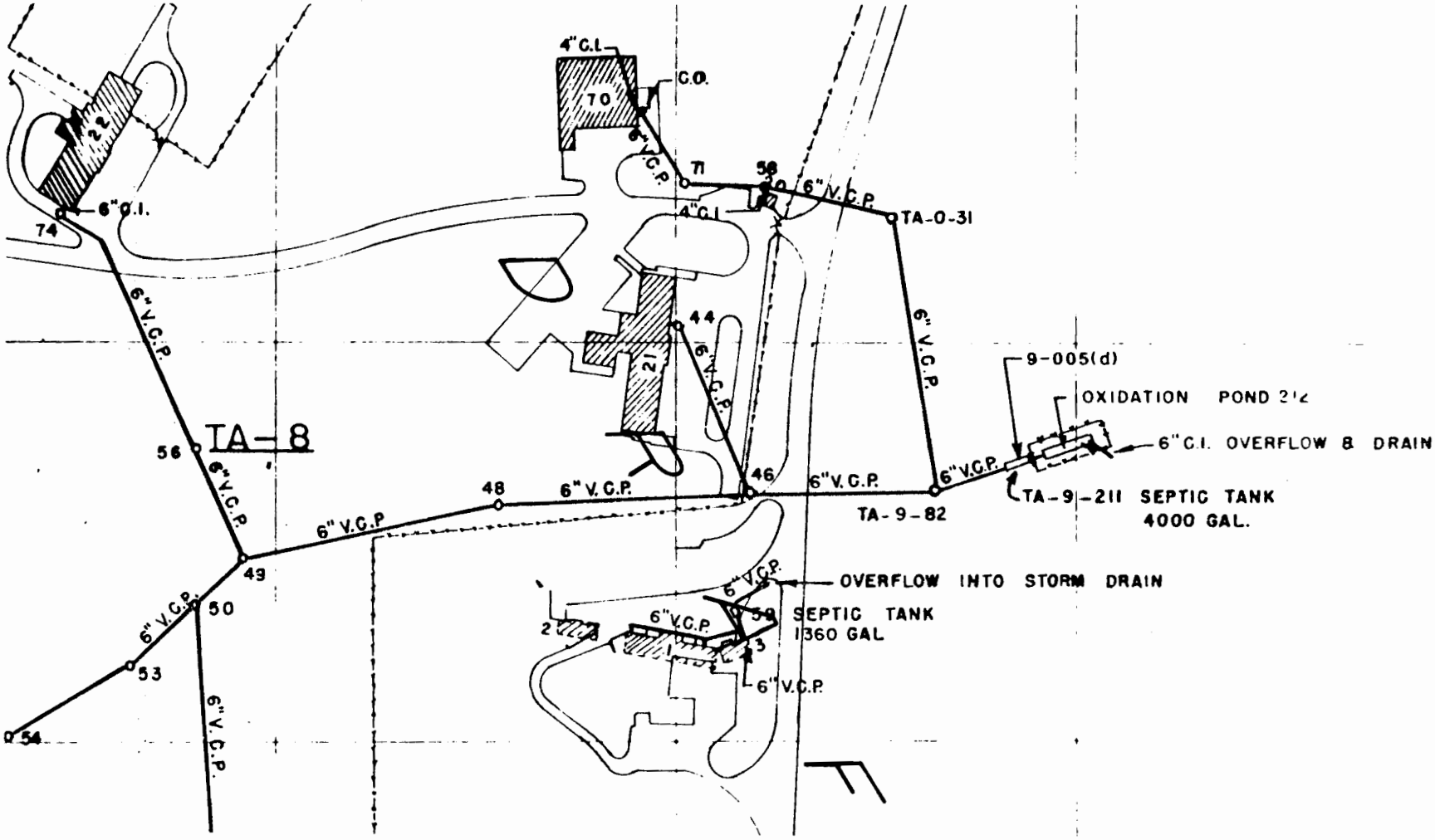
UTILITY LOCATION PLAN
TA-9 ANCHOR SITE EAST
SEWER SYSTEM

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

DRAWN: Cui — DATE: 3-29-95 — SCALE: 1 IN = 30 FT. — SHEET 1 OF 10 — ENG- R 606

OFFICIAL USE ONLY

ORIG. SHOWS ... AS OF JAN. 1955 — LAB. JOB NO. 5/0



EXPLANATION

9-00,1 SWMU LOCATION

UNCLASSIFIED

FIGURE 9-4

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-9

301215 0201 B150

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-9-1	AE-1		REMOVED 1965	
TA-9-2	AE-2		REMOVED 1960	
TA-9-3	AE-3		REMOVED 1960	
TA-9-4	AE-4		REMOVED 1965	
TA-9-5	AE-5		REMOVED 1965	
TA-9-6	AE-6		REMOVED 1960	
TA-9-7	AE-7		REMOVED 1960	
TA-9-8	AE-8		REMOVED 1960	
TA-9-9	AE-9		REMOVED 1960	
TA-9-10	AE-10		REMOVED 1960	
TA-9-11	AE-11		REMOVED 1960	
TA-9-12	AE-12		REMOVED 1960	
TA-9-13	AE-13		REMOVED 1960	
TA-9-14	AE-14		REMOVED 1960	
TA-9-15	AE-15		REMOVED 1965	
TA-9-16	AE-16		REMOVED 1960	
TA-9-17	AE-17		REMOVED 1960	
TA-9-18	AE-18		REMOVED 1960	
TA-9-19	AE-19		REMOVED 1952	
TA-9-20	AE-20	GUARD HOUSE		N 5+00 W45+00
TA-9-21	AE-21	LABORATORY & OFFICE BLDG.		0+00 W45+00
TA-9-22	AE-22	MAGAZETTE		0+00 W45+00
TA-9-23	AE-23	MAGAZETTE		0+00 W45+00
TA-9-24	AE-24	MAGAZETTE		0+00 W45+00
TA-9-25	AE-25	MAGAZETTE		0+00 W40+00
TA-9-26	AE-26	MAGAZETTE		0+00 W40+00
TA-9-27	AE-27	MAGAZETTE		0+00 W45+00
TA-9-28	AE-28	SHOP BUILDING		N 5+00 W45+00
TA-9-29	AE-29	STOCK & EQUIPMENT BUILDING		N 5+00 W45+00
TA-9-30	AE-30	GAS STORAGE		N 5+00 W45+00
TA-9-31	AE-31	GAS STORAGE		N 5+00 W45+00
TA-9-32	AE-32	LABORATORY BUILDING		N 5+00 W40+00
TA-9-33	AE-33	LABORATORY BUILDING		N 5+00 W40+00
TA-9-34	AE-34	PROCESS LABORATORY		N 5+00 W35+00
TA-9-35	AE-35	PROCESS LABORATORY		N 5+00 W35+00
TA-9-36	AE-36	MAGAZINE		N 5+00 W35+00
TA-9-37	AE-37	PROCESS LABORATORY		0+00 W40+00
TA-9-38	AE-38	PROCESS LABORATORY		0+00 W35+00
TA-9-39	AE-39	MAGAZINE		0+00 W35+00
TA-9-40	AE-40	DRY HOUSE BUILDING		N 5+00 W35+00
TA-9-41	AE-41	COMFORT STATION BLDG.		0+00 W35+00
TA-9-42	AE-42	PROCESS LABORATORY		N 5+00 W35+00
TA-9-43	AE-43	PROCESS LABORATORY		N 5+00 W30+00
TA-9-44	AE-44	MAGAZINE		N 5+00 W30+00
TA-9-45	AE-45	PROCESS LABORATORY		0+00 W35+00
TA-9-46	AE-46	PROCESS LABORATORY		0+00 W30+00
TA-9-47	AE-47	MAGAZINE		0+00 W30+00
TA-9-48	AE-48	MACHINING BUILDING		N 5+00 W25+00
TA-9-49	AE-49	MAGAZINE		N 5+00 W25+00
TA-9-50	AE-50	RECEIVING & SHIPPING BLDG.		0+00 W25+00
TA-9-51	AE-51	ENVIRONMENTAL TEST CHAMBER		N 5+00 W15+00
TA-9-52	AE-52	MAGAZINE		0+00 W15+00
TA-9-53	AE-53	MAGAZINE		0+00 W15+00
TA-9-54	AE-54	MAGAZINE		0+00 W15+00
TA-9-55	AE-55	MAGAZINE		S 5+00 W15+00
TA-9-56	AE-56		REMOVED 1960	
TA-9-57	AE-57		REMOVED 1965	
TA-9-58	AE-58		REMOVED 1965	
TA-9-59	AE-59		REMOVED 1950	
TA-9-60	AE-60		REMOVED 1965	
TA-9-61	AE-61		REMOVED 1965	
TA-9-62	AE-62		REMOVED 1965	
TA-9-63	AE-63		REMOVED 1962	
TA-9-64	AE-64	BARRICADE		N 5+00 W40+00
TA-9-65	AE-65	BARRICADE		N 5+00 W35+00
TA-9-66	AE-66	BARRICADE		0+00 W40+00
TA-9-67	AE-67	BARRICADE		0+00 W35+00
TA-9-68	AE-68	BARRICADE		N 5+00 W35+00
TA-9-69	AE-69	BARRICADE		N 5+00 W30+00
TA-9-70	AE-70	BARRICADE		0+00 W30+00
TA-9-71	AE-71	BARRICADE		N 5+00 W25+00
TA-9-72	AE-72	BARRICADE		N 5+00 W15+00
TA-9-73	AE-73	BARRICADE		0+00 W15+00
TA-9-74	AE-74	BARRICADE		0+00 W15+00
TA-9-75	AE-75	BARRICADE		S 5+00 W15+00
TA-9-76	AE-76		REMOVED 1952	
TA-9-77	AE-77		REMOVED 1952	
TA-9-78	AE-78		REMOVED 1952	
TA-9-79	AE-79		REMOVED 1952	
TA-9-80	AE-80		REMOVED 1952	
TA-9-81	AE-81	TANK, SEPTIC	ABANDONED 1970	N15+00 W45+00
TA-9-82	AE-82	MANHOLE, SANITARY	ABANDONED 1970	N15+00 W45+00
TA-9-83	AE-83		REMOVED 1965	
TA-9-84	AE-84		REMOVED 1965	
TA-9-85	AE-85		REMOVED 1965	
TA-9-86	AE-86		REMOVED 1965	
TA-9-87	AE-87		REMOVED 1965	
TA-9-88	AE-88		REMOVED 1955	
TA-9-89	AE-89		REMOVED 1965	
TA-9-90	AE-90		REMOVED 1965	
TA-9-91	AE-91		REMOVED 1965	
TA-9-92	AE-92		REMOVED 1965	
TA-9-93	AE-93		REMOVED 1965	
TA-9-94	AE-94		REMOVED 1965	
TA-9-95	AE-95		REMOVED 1965	
TA-9-96	AE-96		REMOVED 1965	
TA-9-97	AE-97		REMOVED 1965	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-9-98	AE-98		REMOVED 1965	
TA-9-99	AE-99		REMOVED 1965	
TA-9-100	AE-100		REMOVED 1965	
TA-9-101	AE-101		REMOVED 1965	
TA-9-102	AE-102		REMOVED 1965	
TA-9-103	AE-103		REMOVED 1962	
TA-9-104	AE-104	TRANSFORMER STATION		0+00 W20+00
TA-9-105	AE-105	TANK	SEPTIC	N 5+00 W45+00
TA-9-106	AE-106	TANK	SEPTIC	N 5+00 W35+00
TA-9-107	AE-107	TANK	SEPTIC	N 5+00 W30+00
TA-9-108	AE-108	TANK	SEPTIC	N 5+00 W25+00
TA-9-109	AE-109	TANK	SEPTIC	S 5+00 W20+00
TA-9-110	AE-110	TANK	SEPTIC	N 5+00 W15+00
TA-9-111	AE-111	MANHOLE	SANITARY	N 5+00 W45+00
TA-9-112	AE-112	MANHOLE	STEAM	N 5+00 W45+00
TA-9-113	AE-113	MANHOLE	SANITARY	N 5+00 W45+00
TA-9-114	AE-114	MANHOLE	INDUSTRIAL WASTE	N 5+00 W45+00
TA-9-115	AE-115	MANHOLE	INDUSTRIAL WASTE	0+00 W40+00
TA-9-116	AE-116	MANHOLE	SANITARY	0+00 W40+00
TA-9-117	AE-117	MANHOLE	STEAM	N 5+00 W40+00
TA-9-118	AE-118	MANHOLE	SANITARY	N 5+00 W40+00
TA-9-119	AE-119	MANHOLE	INDUSTRIAL WASTE	N 5+00 W40+00
TA-9-120	AE-120	MANHOLE	INDUSTRIAL WASTE	N 5+00 W40+00
TA-9-121	AE-121	MANHOLE	INDUSTRIAL WASTE	N 5+00 W35+00
TA-9-122	AE-122	MANHOLE	INDUSTRIAL WASTE	N 5+00 W40+00
TA-9-123	AE-123	MANHOLE	SANITARY	N 5+00 W40+00
TA-9-124	AE-124	MANHOLE	SANITARY	N 5+00 W40+00
TA-9-125	AE-125	MANHOLE	STEAM	N 5+00 W40+00
TA-9-126	AE-126		CANCELLED	
TA-9-127	AE-127	MANHOLE	SANITARY	N 5+00 W40+00
TA-9-128	AE-128	MANHOLE	INDUSTRIAL WASTE	N 5+00 W35+00
TA-9-129	AE-129	MANHOLE	SANITARY	N 5+00 W35+00
TA-9-130	AE-130	MANHOLE	STEAM	0+00 W35+00
TA-9-131	AE-131	MANHOLE	STEAM	0+00 W35+00
TA-9-132	AE-132	MANHOLE	SANITARY	0+00 W35+00
TA-9-133	AE-133	MANHOLE	INDUSTRIAL WASTE	N 5+00 W30+00
TA-9-134	AE-134	MANHOLE	SANITARY	N 5+00 W30+00
TA-9-135	AE-135	MANHOLE	INDUSTRIAL WASTE	N 5+00 W30+00
TA-9-136	AE-136	MANHOLE	INDUSTRIAL WASTE	N 5+00 W30+00
TA-9-137	AE-137	MANHOLE	SANITARY	N 5+00 W30+00
TA-9-138	AE-138	MANHOLE	INDUSTRIAL WASTE	N 5+00 W30+00
TA-9-139	AE-139	MANHOLE	STEAM	0+00 W30+00
TA-9-140	AE-140	MANHOLE	SANITARY	0+00 W30+00
TA-9-141	AE-141	MANHOLE	INDUSTRIAL WASTE	0+00 W30+00
TA-9-142	AE-142	MANHOLE	INDUSTRIAL WASTE	0+00 W35+00
TA-9-143	AE-143	MANHOLE	SANITARY	0+00 W35+00
TA-9-144	AE-144	MANHOLE	INDUSTRIAL WASTE	0+00 W35+00
TA-9-145	AE-145	MANHOLE	INDUSTRIAL WASTE	S 5+00 W20+00
TA-9-146	AE-146	MANHOLE	SANITARY	S 5+00 W20+00
TA-9-147	AE-147	MANHOLE	SANITARY	0+00 W45+00
TA-9-148	AE-148	PUMPING STATION	STEAM	N 5+00 W25+00
TA-9-149	AE-149	TRANSFORMER STATION		0+00 W45+00
TA-9-150	AE-150	MANHOLE	WATER PRV	N 5+00 W50+00
TA-9-151	AE-151	MANHOLE	GAS DRIP POT	N 5+00 W50+00
TA-9-152	AE-152		CANCELLED	
TA-9-153	AE-153		CANCELLED	
TA-9-154	AE-154	MANHOLE	TELEPHONE, ELECTRICAL	N 5+00 W30+00
TA-9-155	AE-155	MANHOLE	TELEPHONE, ELECTRICAL	N 5+00 W30+00
TA-9-156	AE-156	MANHOLE	ELECTRICAL, TELEPHONE	0+00 W35+00
TA-9-157	AE-157	MANHOLE	TELEPHONE, ELECTRICAL	N 5+00 W45+00
TA-9-158	AE-158	MANHOLE	TELEPHONE, ELECTRICAL	N 5+00 W35+00
TA-9-159	AE-159	MANHOLE	TELEPHONE, ELECTRICAL	0+00 W35+00
TA-9-160	AE-160	MANHOLE	ELECTRICAL	0+00 W15+00
TA-9-161	AE-161	MANHOLE	TELEPHONE, ELECTRICAL	N 5+00 W35+00
TA-9-162	AE-162		REMOVED 1972	
TA-9-163	AE-163	ROAD BLOCK		N 5+00 W40+00
TA-9-164	AE-164	ROAD BLOCK		N 5+00 W40+00
TA-9-165	AE-165	ROAD BLOCK		N 5+00 W35+00
TA-9-166	AE-166	ROAD BLOCK		N 5+00 W40+00
TA-9-167	AE-167	ROAD BLOCK	RELOCATED TO TA-14-38	
TA-9-168	AE-168	ROAD BLOCK		N 5+00 W30+00
TA-9-169	AE-169	ROAD BLOCK		N 5+00 W25+00
TA-9-170	AE-170	ROAD BLOCK		0+00 W30+00
TA-9-171	AE-171	ROAD BLOCK		0+00 W35+00
TA-9-172	AE-172	ROAD BLOCK		0+00 W35+00
TA-9-173	AE-173	ROAD BLOCK		0+00 W40+00
TA-9-174	AE-174		REMOVED 1965	
TA-9-175	AE-175		REMOVED 1945	
TA-9-176	AE-176		REMOVED 1952	
TA-9-177	AE-177		REMOVED 1952	
TA-9-178	AE-178		REMOVED 1952	
TA-9-179	AE-179	MANHOLE	INDUSTRIAL WASTE	0+00 W45+00
TA-9-180	AE-180		REMOVED 1945	
TA-9-181	AE-181	GUARD HOUSE	RELOCATED TO TA-15-208	
TA-9-182	AE-182		REMOVED 1965	
TA-9-183	AE-183	ROAD BLOCK		N 5+00 W35+00
TA-9-184	AE-184	TANK	SETTLING, IND. WASTE	0+00 W45+00
TA-9-185	AE-185	TANK	SETTLING, IND. WASTE	0+00 W40+00
TA-9-186	AE-186	TANK	SETTLING, IND. WASTE	0+00 W35+00
TA-9-187	AE-187	TANK	SETTLING, IND. WASTE	0+00 W35+00
TA-9-188	AE-188	TANK	SETTLING, IND. WASTE	0+00 W35+00
TA-9-189	AE-189	TANK	SETTLING, IND. WASTE	0+00 W30+00
TA-9-190	AE-190	TANK	SETTLING, IND. WASTE	0+00 W25+00
TA-9-191	AE-191	TANK	SETTLING, IND. WASTE	N 5+00 W45+00
TA-9-192	AE-192	TANK	SETTLING, IND. WASTE	N 5+00 W40+00
TA-9-193	AE-193	TANK	SETTLING, IND. WASTE	N 5+00 W40+00
TA-9-194	AE-194	TANK	SETTLING, IND. WASTE	N 5+00 W35+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-9-195	AE-195	TANK	SETTLING, IND. WASTE	N 5+00W35+00
TA-9-196	AE-196	TANK	SETTLING, IND. WASTE	N 5+00W35+00
TA-9-197	AE-197	TANK	SETTLING, IND. WASTE	N 5+00W30+00
TA-9-198	AE-198	TANK	SETTLING, IND. WASTE	N 5+00W25+00
TA-9-199	AE-199		REMOVED 1952	
TA-9-200	AE-200	MANHOLE	INDUSTRIAL WASTE	0+00W45+00
TA-9-201	AE-201	MANHOLE	INDUSTRIAL WASTE	0+00W45+00
TA-9-202	AE-202	BASKET PIT	INDUSTRIAL WASTE	N 5+00W15+00
TA-9-203	AE-203		REMOVED 1965	
TA-9-204	AE-204	REFRIGERATOR SHELTER		0+00W45+00
TA-9-205	AE-205	MANHOLE	COMPRESSED AIR	N 5+00W40+00
TA-9-206	AE-206	WASTE CAN SHELTER		0+00W35+00
TA-9-207	AE-207	WASTE CAN SHELTER		N 5+00W25+00
TA-9-208	AE-208	DAY MAGAZINE		N 5+00 W40+00
TA-9-209	AE-209	TRANSFORMER STATION		0+00 W20+00
TA-9-210	AE-210	MANIFOLD		N 5+00 W40+00
TA-9-211	AE-211	TANK	SEPTIC	N 15+00 W45+00
TA-9-212	AE-212	PIT	OXIDATION POND	N 15+00 W45+00
TA-9-213	AE-213	GATE (BARRICADE)		N 5+00 W35+00
TA-9-214	AE-214	STORAGE BLDG	FORMERLY TA-9-19	N 5+00 W45+00

UNCLASSIFIED

FIGURE 9-5

TA-9 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CHD	APP
15	8-18-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-83	MS		TR

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-9
ANCHOR SITE EAST

SEC CLASSIFICATION: CLASS U
REVIEWED
DATE 9-23-83

SUBMITTED
RECOMMENDED
APPROVED
DRAWN
CHECKED
DATE 8-18-83
SHEET NO. 1 of 3
DRAWING NO. ENG-R 5107

TA-10

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 10 was decommissioned and decontaminated in the early 1960's. The area was used as a firing site, and for a period of years included a chemical laboratory. Radioactive materials, acids, metals, laboratory wastes were disposed of or released. The area lies outside the present northeastern corner of the Laboratory and is presently owned by Los Alamos County with restricted use provisions suggested by DOE.

TA-10 lies along the streambed of Bayo Canyon at about 6,550 feet elevation (asl). The bedrock is a non-welded member of the Bandelier Tuff. The area lies in the Pinon-Juniper overstory vegetation zone. Soils have not been surveyed in this area.

At TA-10, the potentiometric surface of the main aquifer in the Los Alamos area is at 5,850 feet elevation. About 700 feet of unsaturated tuff, basalt, other volcanic rocks, and conglomerate separate the surface from the ground water table. There is little potential for downward flow of surface water through the unsaturated zone to the aquifer (IT, 1987). However, because a stream runs in Bayo Canyon occasionally, a transport mode for any contamination that may be present at the site will be surface water.

DRAFT

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1944 - 1961

UNIT INFORMATION

Four firing sites were located in Bayo Canyon at TA-10. Firing Point 1 [10-001(a)] was near TA-10-22 and TA-10-23; Firing Point 2 [10-001(b)] was near TA-10-24 and TA-10-25; Firing Point 3 [10-001(c)] was near TA-10-26 and TA-10-27; and Firing Point 4 [10-001(d)] was near TA-10-28 and TA-10-29. The firing sites were used for experiments using HE as an explosive driving force impacting on metals. Shots usually contained a radioactive source, lanthanum-140, used for diagnostic purposes. The same firing areas were used many times. They were decommissioned in 1963.

WASTE INFORMATION

A total of about 2,000 kg of natural uranium, 3,380 kg of uranium-238, 39.6 Ci of strontium-90, lead, and possibly beryllium were included in the shots. Other materials included aluminum, steel, cable, and electronics components. The lanthanum-140 used in diagnostics has since decayed out.

RELEASE INFORMATION

The area surrounding the firing point on which residuals deposited depended on the amount of HE and the configuration of the shot. Much of the residual material was deposited near the firing area. Fine particulates would be dispersed further, up to several miles. In 1963, the area surrounding the firing sites to a radius of about 760 meters was swept and 90 truck loads of debris, including asphalt and soil, was transported to MDA-G for disposal. Further surface cleanup has been undertaken at periodic intervals in the years since. Today, small amounts of residuals such as firing cable and shrapnel remain at the site. Radiation levels slightly above background are occasionally measured there, particularly in soils surrounding the firing areas.

DRAFT

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1945 - 1950

UNIT INFORMATION

Two pits were dug for the disposal of spent chemicals and laboratory equipment. TA-10-44 [10-002(a)] measured 8' x 5' x 12' deep (2' x 2' x 5' deep, according to engineering records). TA-10-48 [10-002(b)] was divided into two sections each 5' x 5' x 10' deep (6'6" x 5'4" x 10' deep according to engineering records).

WASTE INFORMATION

TA-10-48 received gloves, bottles, laboratory equipment, and at least some of the liquid residuals from the lanthanum extraction process which contained an estimated 117 Ci of strontium-90. TA-10-44 received gloves, rags, acid bottles, and similar items.

RELEASE INFORMATION

In 1963, all solid wastes were removed from TA-10-48 and soil was removed to 26 feet. Excavated material was taken to MDA-G at TA-54. At 26 feet slight strontium contamination remained; because gross beta levels were approaching background, the pit was filled. TA-10-48 is included in the area with posts recommending no excavaton before 2142 A.D. TA-10-44 was also decommissioned; waste items were removed and soil excavated to 19 feet. At that depth, the bottom of the pit indicated 1.5 mR/h beta/gamma. The pit was then refilled.

DRAFT

10-003 LIQUID DISPOSAL COMPLEX

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): DISPOSAL SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1944 - 1950

UNIT INFORMATION

Six pits, TA-10-41, -42, -43 [10-003(a), (b), and (c)] and three unidentified; two manholes, TA-10-50 and -51 [10-003(d) and (e)]; one tank, TA-10-39 [10-003(f)]; and three stainless steel tanks along with associated drain lines made up the industrial liquid waste disposal system (ultimately discharging to leach fields and other areas). The system has been decommissioned. TA-10-41, -42, -43 were of reinforced concrete 2' x 2' x 5' deep with a steel cover. TA-10-50 and -51 were reinforced concrete 4' x 5' x 5' deep. TA-10-39 was three stainless steel tanks 200 gallons each.

WASTE INFORMATION

The liquid wastes included nitric acid, hydrochloric acid, hydrofluoric acid, sulfuric acid, strontium-90, as well as lanthanum-140 (now decayed), small amounts of barium, cadmium, platinum, benzene, carbon tetrachloride, other organics, and inorganics.

RELEASE INFORMATION

The ultimate fate of the liquids was discharge to the arroyo. In 1963, the pits, tanks, drain lines, and large amounts of contaminated soil were removed. Low levels of radionuclide contamination remain at depth with a maximum of 24,000 pCi/g gross beta detected at 430-440 cm below the surface in 1974. The area is today posted to prohibit excavation prior to 2142 A.D.

DRAFT

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): SEPTIC SYSTEMS
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Two septic tanks handled sanitary wastes and other liquids. Tank TA-10-40 [10-004(a)] served personnel in Building TA-10-21, had a capacity of 550 gallons, and discharged to a pit measuring 8' x 8' x 12' deep. Tank TA-10-38 [10-004(b)], of reinforced concrete, 4' x 10' x 4' deep, handled sanitary waste, but is suspected to have also received liquid wastes from the lab at TA-10-1. Its overflow drained through a 4" VCP open-joint drain pipe to the arroyo. TA-10-38 was used from 1944 to 1963. TA-10-40 was used from 1949 to 1963.

WASTE INFORMATION

The septic systems handled primarily sanitary waste, but may have potentially received laboratory liquids.

RELEASE INFORMATION

Both tanks were removed and were taken to TA-54, MDA-G, according to engineering records. No information is available concerning the fate of the disposal pit associated with TA-10-40. The outfall area from TA-10-38 in 1974 was noted to have above background levels for gross beta.

DRAFT

10-005 SURFACE DISPOSAL AREA

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1940's - 1950's

UNIT INFORMATION

This surface disposal site is located up-canyon from the TA-10 firing sites on the south side of the road. There is no information on the size of the area; it is believed to have been small.

WASTE INFORMATION

The site received residuals swept from the firing pads after each shot. Small quantities of uranium, lead, possibly beryllium, and strontium-90 may have been present.

RELEASE INFORMATION

In 1957, the wastes from the disposal area were burned and the ash taken to MDA-C. No additional wastes are believed to have been disposed of at the site. In 1961, radioactivity at the site ranged from background to 0.6 mR/h.

DRAFT

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): OPEN BURNING
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1944 - 1963

UNIT INFORMATION

Various burning operations were conducted at TA-10. These included two burns using drums. Other operations used temporary burn pits, or burned the items in place.

WASTE INFORMATION

In 1955, there were two burns of uranium solutions. In 1956, radioactive contaminated combustibles were burned (the ashes were taken to MDA-G). In 1960 and 1963, buildings were burned.

RELEASE INFORMATION

It was possible that during the burns releases of radionuclides and other unknown combustion products occurred; however, there is currently no evidence of residual contamination.

DRAFT

SUMMARY

LOCATION: TA-10
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1963

UNIT INFORMATION

The landfill, located in the arroyo at TA-10, was used to dispose of building debris from the decommissioning of TA-10. The size of the landfill is not known; however, because it is located in the excavation created by the removal of the liquid disposal complex, it is probably about 20 feet deep.

WASTE INFORMATION

The waste is nonhazardous, consisting of uncontaminated building debris, most of which is believed to be concrete.

RELEASE INFORMATION

There have been no known hazardous releases associated with this unit.

DRAFT

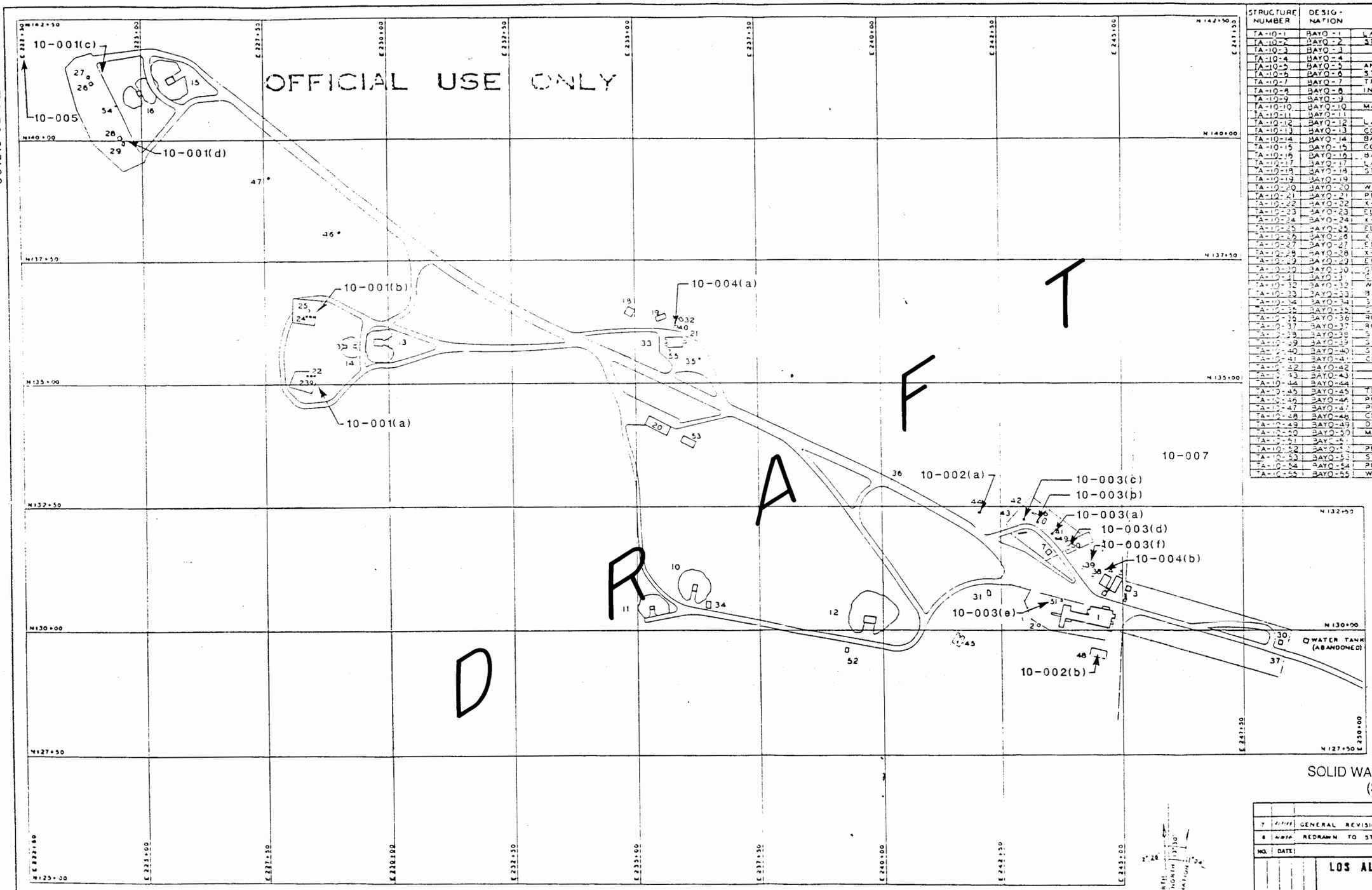
TA-10 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
10-001(a)	10-1
10-001(b)	10-1
10-001(c)	10-1
10-001(d)	10-1
10-002(a)	10-1
10-002(b)	10-1
10-003(a)	10-1
10-003(b)	10-1
10-003(c)	10-1
10-003(d)	10-1
10-003(e)	10-1
10-003(f)	10-1
10-004(a)	10-1
10-004(b)	10-1
10-005	10-1
10-006	Not shown, location unknown
10-007	10-1

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 02 116



STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-10-1	BAYO-1	LABORATORY
TA-10-2	BAYO-2	STORAGE BUILDING
TA-10-3	BAYO-3	" "
TA-10-4	BAYO-4	" "
TA-10-5	BAYO-5	ANNEX - STORAGE BUILDING
TA-10-6	BAYO-6	STORAGE BUILDING
TA-10-7	BAYO-7	TRACTOR BUILDING
TA-10-8	BAYO-8	INSPECTION BLDG
TA-10-9	BAYO-9	" " " (REMOVED)
TA-10-10	BAYO-10	MAGAZINE
TA-10-11	BAYO-11	"
TA-10-12	BAYO-12	LABORATORY
TA-10-13	BAYO-13	CONTROL BUILDING FIR PT 1&2
TA-10-14	BAYO-14	BATTERY BUILDING FIR PT 1&2
TA-10-15	BAYO-15	CONTROL BUILDING FIR PT 3&4
TA-10-16	BAYO-16	BATTERY BUILDING FIR PT 3&4
TA-10-17	BAYO-17	LATRINE (REMOVED)
TA-10-18	BAYO-18	STORAGE BUILDING
TA-10-19	BAYO-19	"
TA-10-20	BAYO-20	WAREHOUSE BUILDING
TA-10-21	BAYO-21	PERSONNEL BUILDING
TA-10-22	BAYO-22	X-UNIT CHAMBER FIR PT 1
TA-10-23	BAYO-23	ELECTRONICS CHAMBER, FIR PT 1
TA-10-24	BAYO-24	X-UNIT CHAMBER FIR PT 2
TA-10-25	BAYO-25	ELECTRONICS CHAMBER, FIR PT 2
TA-10-26	BAYO-26	X-UNIT CHAMBER " FIR PT 3
TA-10-27	BAYO-27	ELECTRONICS CHAMBER, FIR PT 3
TA-10-28	BAYO-28	X-UNIT CHAMBER FIR PT 4
TA-10-29	BAYO-29	ELECTRONICS CHAMBER, FIR PT 4
TA-10-30	BAYO-30	GUARD BUILDING STATION 100
TA-10-31	BAYO-31	SCC BUILDING
TA-10-32	BAYO-32	WELDING SHOP
TA-10-33	BAYO-33	BARRICADE
TA-10-34	BAYO-34	STATIC TEST BUILDING
TA-10-35	BAYO-35	STREN PLATFORM
TA-10-36	BAYO-36	ROAD BLOCK
TA-10-37	BAYO-37	ROAD BLOCK
TA-10-38	BAYO-38	SEPTIC TANK
TA-10-39	BAYO-39	SEPTIC TANK (ACID)
TA-10-40	BAYO-40	SEPTIC TANK
TA-10-41	BAYO-41	CONTAMINATED MATERIAL PIT
TA-10-42	BAYO-42	" " "
TA-10-43	BAYO-43	" " "
TA-10-44	BAYO-44	" " "
TA-10-45	BAYO-45	TRANSFORMER STATION
TA-10-46	BAYO-46	PULL BOX
TA-10-47	BAYO-47	PULL BOX
TA-10-48	BAYO-48	CONTAMINATED MATERIAL PIT
TA-10-49	BAYO-49	DRUM STORAGE
TA-10-50	BAYO-50	MANHOL (ACID SEWER)
TA-10-51	BAYO-51	" " "
TA-10-52	BAYO-52	PLATFORM
TA-10-53	BAYO-53	STORAGE BUILDING
TA-10-54	BAYO-54	PULL BOX
TA-10-55	BAYO-55	WATER TANK (UNDERGROUND)

UNCLASSIFIED

FIGURE 10-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-10

EXPLANATION

10-001 SWMU LOCATION

NOTES

UNIT 10-001: EXACT LOCATION IS UNKNOWN

NO.	DATE	REVISIONS	BY	CHKD.
7	7/1/55	GENERAL REVISION TO STATUS OF JULY 1, 1955	NOBLIAS	JER
6	7/1/54	REDRAWN TO STATUS OF 7-1-54	LCWILIAS	

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

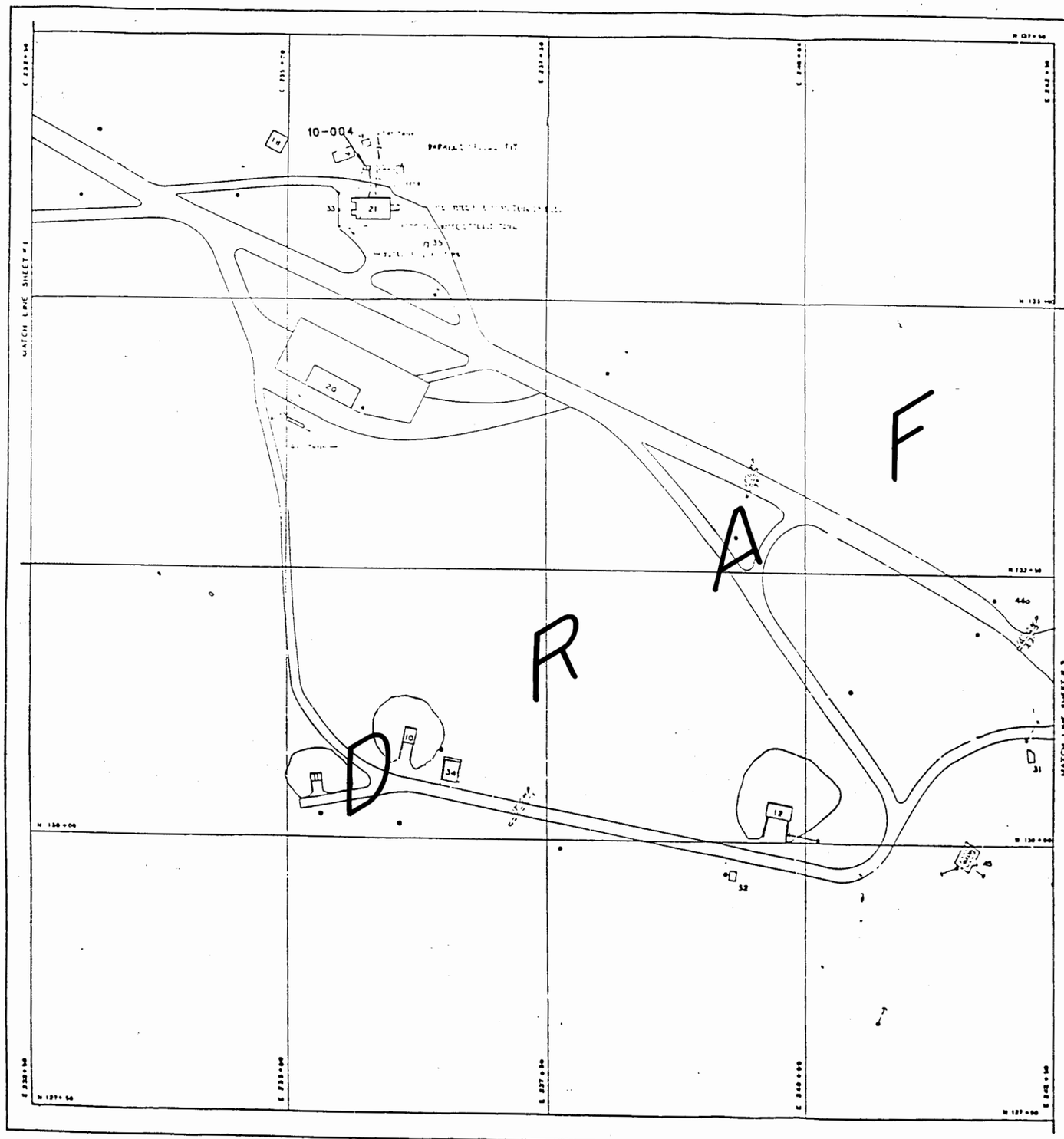
STRUCTURE LOCATION PLAN
TA-10 BAYO CANYON SITE

AUTHORIZED FOR

CHECKED DESIGNER | RECOMMENDED GROUP LEADER | APPROVED ENGINEER IN CHARGE

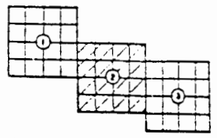
DRAWN LC WINKS | DATE 8-9-54 | DRAWING NO.

301215 02 01 B177



EXPLANATION
10-001 SWMU LOCATION

UNCLASSIFIED



INDEX TO SHEETS
NO SCALE

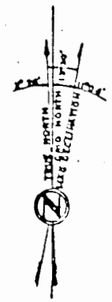
LEGEND
W — WATER
SS — SANITARY SEWER
AS — ACID SEWER
F — FUEL

FIGURE 10-2

SOLID WASTE MANAGEMENT UNITS
(SWMUs) IN TA-10
INACTIVE

DEAD STORAGE

3



OFFICIAL USE ONLY

NO.	DATE	REVISIONS	BY	CHKD	DR.	DES.

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., ETC.

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

UTILITY LOCATION PLAN
TA-10 BAYO CANYON SITE
WATER, SEWER AND FUEL

CHECKED: JFN — RECOMMENDED: GROUP LEADER — APPROVED: ENG. DIV. DIRECTOR

DRAWN: A.C.R.S. — DATE: 3-29-56 — DRAWING NO.

SCALE: 1 IN. = 50 FT. — SHEET 2 OF 3 — ENG-R637

INFO. SHOWN CURRENT AS OF 8-1-56

LAB. JOB NO. 1421

TA-11

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 11 is the location of a drop tower and other equipment used to perform tests on explosives and components. High explosives may fracture or detonate during drop tests. The resulting scattered debris is picked up and removed. In addition to explosives, radioactive materials have been used at the area. A test of explosive decomposition has included burial of a series of high explosives at the site. The area housed a betatron, a burning area, laboratory facilities, gun firing area, sumps, a landfill, and storage buildings.

TA-11 lies at an elevation of 7,350 feet asl. It is located on a broad mesa top bounded on the north by a tributary of Water Canyon, and on the south by Water Canyon. The canyon walls are steep sided or cliffs. TA-11 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone. The soils at TA-11 are in the Tocal very fine sandy loam series. The soils are shallow to very shallow (20 to 50 cm), well-drained, and form on tuff on gentle to moderate slopes. The permeability is moderately slow (0.5 to 1.6 cm/h), and the available water-holding capacity is low. Runoff is medium, and the erosion potential is moderate (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute precipitation event on bare soil).

At TA-11, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,150 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

11-001 FIRING PITS

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1940's - 1950's

UNIT INFORMATION

Three firing pits or chambers were used for the test firing of shots at TA-11. TA-11-14 [11-001(a)] and the chamber between TA-11-2 and -3 [11-001(b)] were first used in 1945, and the site near TA-11-15 [11-001(c)] was first used in 1944. It has been reported that shots up to 200 lbs. were fired in TA-11 in 1945. How many total shots were fired and at which firing area is not known. TA-11-14 is described as a semicircular concrete wall 12'6" x 37' x 4'6" deep. The site near TA-11-15 appears to have been similar in construction. Early memos indicate that the firing chamber was between the "steel noses" of TA-11-2 and -3. TA-11-14 was either next to or under the present drop tower pad.

WASTE INFORMATION

Shots fired at these sites reportedly contained natural uranium and aluminum and may have included hazardous constituents.

RELEASE INFORMATION

The areas have been decommissioned. Data on any residuals is lacking.

DRAFT

11-002 OPEN BURNING AREA AND PIT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): PIT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1948 - PRESENT

UNIT INFORMATION

A burning area is located northeast of TA-11-41 and contains two sand pads in an area approximately 10' x 10' in size. The pads have been used to burn propellant, HE residues, and damaged units. Infrequent burns have occurred in the 1980's.

WASTE INFORMATION

Wastes which have been burned include uranium-238 and HE-contaminated materials. Earlier, undocumented burns may have contained other materials.

RELEASE INFORMATION

Solid residues were observed during the VSI in the vicinity of the sand pads. No monitoring data exists to characterize the residues.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's

UNIT INFORMATION

K Site's activities in the 1950's included acceleration and impact tests of explosive systems contained in impact-resistant vehicles. Large mortars such as 155-mm launchers have been used. A 1973 drawing (ENG-13Y102392) shows an impact area to the north of TA-11-2 and -3 [11-003(a)]. No documentation on possible contamination in the launch impact area has been found. For another experiment, an air-gun building, TA-11-24, was constructed. Using compressed gases, projectiles were shot from the air gun toward concrete blocks (the target area) [11-003(b)] located to the south of the gun. Apparently, no detonations of explosives occurred in the acceleration and impact tests. The projectiles may have been inert. Some of the targets for the air gun remain at the site and were observed to be in a state of disrepair during the 1986 CEARP field survey. The former air gun building is now used as an office and shop.

WASTE INFORMATION

The waste is projectiles.

RELEASE INFORMATION

Because of dense vegetation in the area, it is unknown whether any projectiles remain.

DRAFT

11-004 DROP TOWER COMPLEX

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): OTHER: DROP TOWER
UNIT USE: TESTING
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1956 - PRESENT

UNIT INFORMATION

The drop tower complex consists of a hoist, tower, pads and associated equipment that have been used for dropping experiments since the 1950's. After a drop, materials used in the tests may scatter from the pad into the surrounding environment in a radius of up to 350 feet. The drop tower complex consists of: a drop tower which is 165' high, TA-11-25 [11-004(a)]; a concrete pad, TA-11-26 [11-004(b)]; two hoists, TA-11-27 and -28 [11-004(c) and (d)]; and two drop pads, TA-11-41 and -42 [11-004(e) and (f)].

WASTE INFORMATION

Drop tests over the years at this site have included experiments containing various types of HE, depleted uranium, and possibly small amounts of beryllium.

RELEASE INFORMATION

Large pieces of HE which did not detonate on impact are picked up from the pad area at the drop tower. Data sufficient to describe any potential release from the unit is unavailable; however, HE and uranium contamination are suspected.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Two active septic tanks are located in TA-11. Septic Tank TA-11-20 [11-005(a)] has been in use since 1944. It has a capacity of 500 gallons, with the overflow going to a drain line. Septic Tank TA-11-43 [11-005(b)] has been in use since 1963 and has a capacity of 300 gallons, with overflow also going to a drain line.

WASTE INFORMATION

TA-11-20 possibly received photographic chemical wastes in the past. It is not known whether HE contamination is present, or whether any other chemicals have been used, but the tanks most likely connect only to sinks and sanitary facilities.

RELEASE INFORMATION

Hazardous wastes may have been discharged through the tank drains. Documentation of releases is unavailable.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1961 - PRESENT

UNIT INFORMATION

Sump TA-11-39 [11-006(a)] was put into service in 1961 to separate liquid wastes from entrained HE. According to engineering records, it measures 4'6" x 5'4" x 4'3" deep and is constructed of reinforced concrete. Three reinforced concrete catch basins TA-11-50, -51, and -52 [11-006 (b), (c), and (d)] were added in 1970. Each catch basin measures 4' x 6' x 2' and has overflow drains. These units are associated with the drop tower complex (11-004). After a drop occurs, the large pieces of HE are removed and the pads are hosed down. The residues are washed into the sump and catch basins. All decant liquids are discharged from the sumps through NPDES outfalls (see Appendix A). The catch basins and sump are cleaned regularly, and the HE is taken to TA-16 for burning.

WASTE INFORMATION

The liquids discharged to the sump and catch basins may contain HE.

RELEASE INFORMATION

It is suspected that HE containing barium has been discharged from the sump and catch basins.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1960's

UNIT INFORMATION

This surface disposal area is located at the head of the canyon south of TA-11-4, and is approximately 10' x 25' x 15' deep. The area contains large concrete slabs which may have served as targets for the air gun or for mortars. Building demolition debris also appears to be present.

WASTE INFORMATION

The waste consists of nonhazardous debris.

RELEASE INFORMATION

There are no known hazardous releases associated with this unit.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1960's - 1970's

UNIT INFORMATION

A boneyard is located south of the old air gun target area.

WASTE INFORMATION

The waste is scrap concrete, iron, equipment, and other nonhazardous debris.

RELEASE INFORMATION

There are no known hazardous releases associated with this unit. Monitoring data is unavailable.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): LANDFILL
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1965 - PRESENT

UNIT INFORMATION

MDA-S is a landfill that is 10' x 10', located approximately 80 feet southeast of TA-11-36. The area is used for an experiment to determine the decomposition rate of buried HE material.

WASTE INFORMATION

Twelve different types of HE were buried in cylinders in a soil matrix for this experiment.

RELEASE INFORMATION

The cylinders have been removed, and presently, no more than 3 ounces of HE remain in the soil matrix. There are no known releases of any HE beyond the boundaries of the experimental area.

DRAFT

SUMMARY

LOCATION: TA-11
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: LATE 1950's-PRESENT

UNIT INFORMATION

There are two active container storage areas at TA-11. Magazine TA-11-36 [11-010(a)] is a concrete building that has an area of approximately 200 square feet. This building is used to store HE fragments picked up from the pad of the drop tower of the few occasions when there are HE residuals. The HE material is stored for a short period awaiting transport to the burning ground. The second container storage area consists of a wooden pallet near the air gun building, TA-11-24 [11-010(b)]. The pallet is used for satellite storage of suspected hazardous waste.

WASTE INFORMATION

The waste stored at the magazine is HE. The pallet storage area near the air gun building is used to store waste suspected of being hazardous.

RELEASE INFORMATION

There have been no known releases from these storage areas. These areas are inspected regularly by LANL staff.

DRAFT

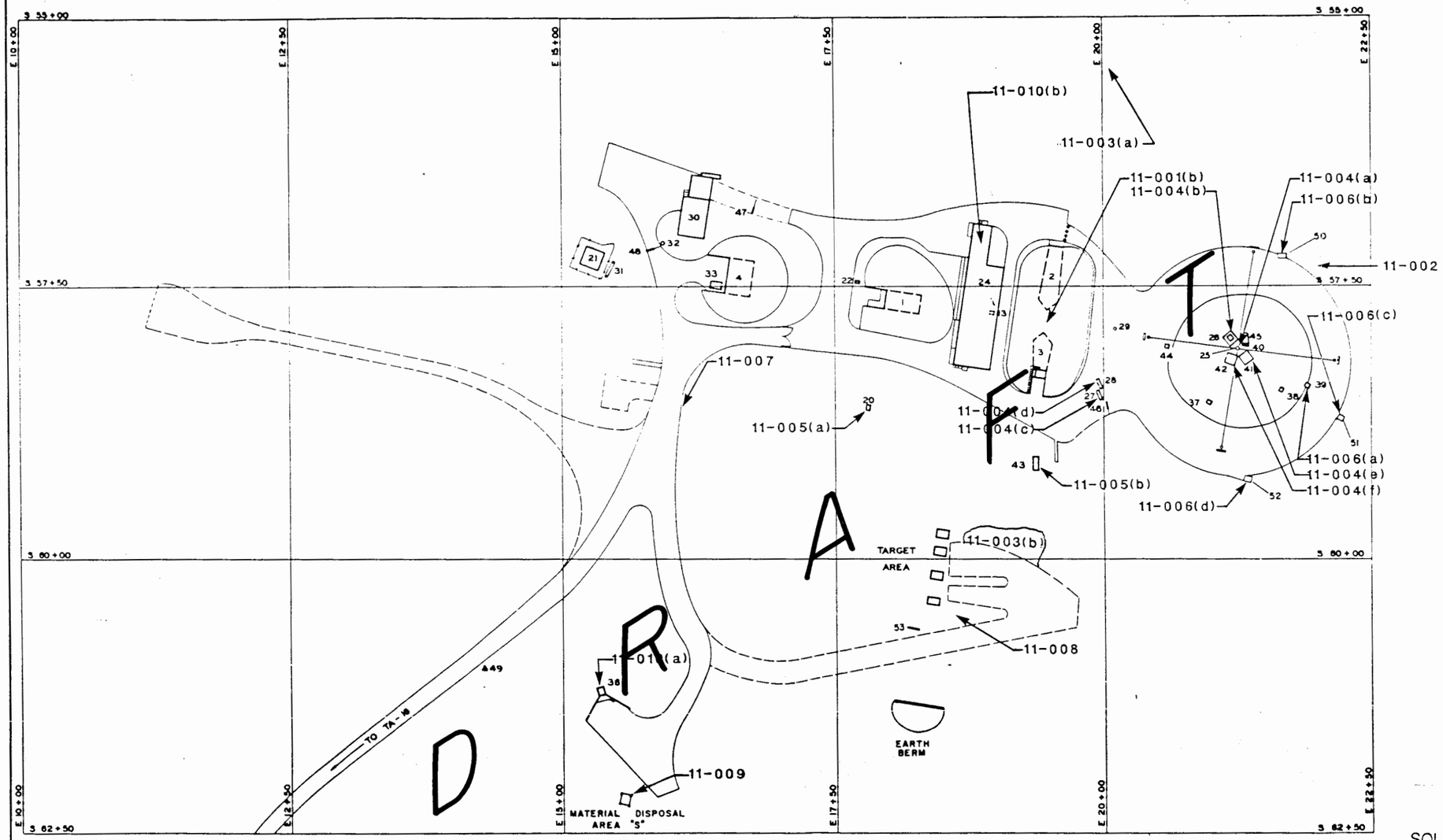
TA-11 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
11-001(a)	11-2
11-001(b)	11-1
11-001(c)	11-2
11-002	11-1
11-003(a)	11-1
11-003(b)	11-1
11-004(a)	11-1
11-004(b)	11-1
11-004(c)	11-1
11-004(d)	11-1
11-004(e)	11-1
11-004(f)	11-1
11-005(a)	11-1
11-005(b)	11-1
11-006(a)	11-1
11-006(b)	11-1
11-006(c)	11-1
11-006(d)	11-1
11-007	11-1
11-008	11-1
11-009	11-1
11-010(a)	11-1
11-010(b)	11-1

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 02 01 B123



UNCLASSIFIED

EXPLANATION

11-001 SWMU LOCATION

FIGURE 11-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-11

1"= 50'

GRAPHIC SCALE

NOTES

UNIT 11-010(b): UNITS IS NEAR TA-11-24; SPECIFIC LOCATION IS UNAVAILABLE.

REV.	DATE	REVISION	BY	CKD	APP
16	8-12-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-10-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-11 K-SITE

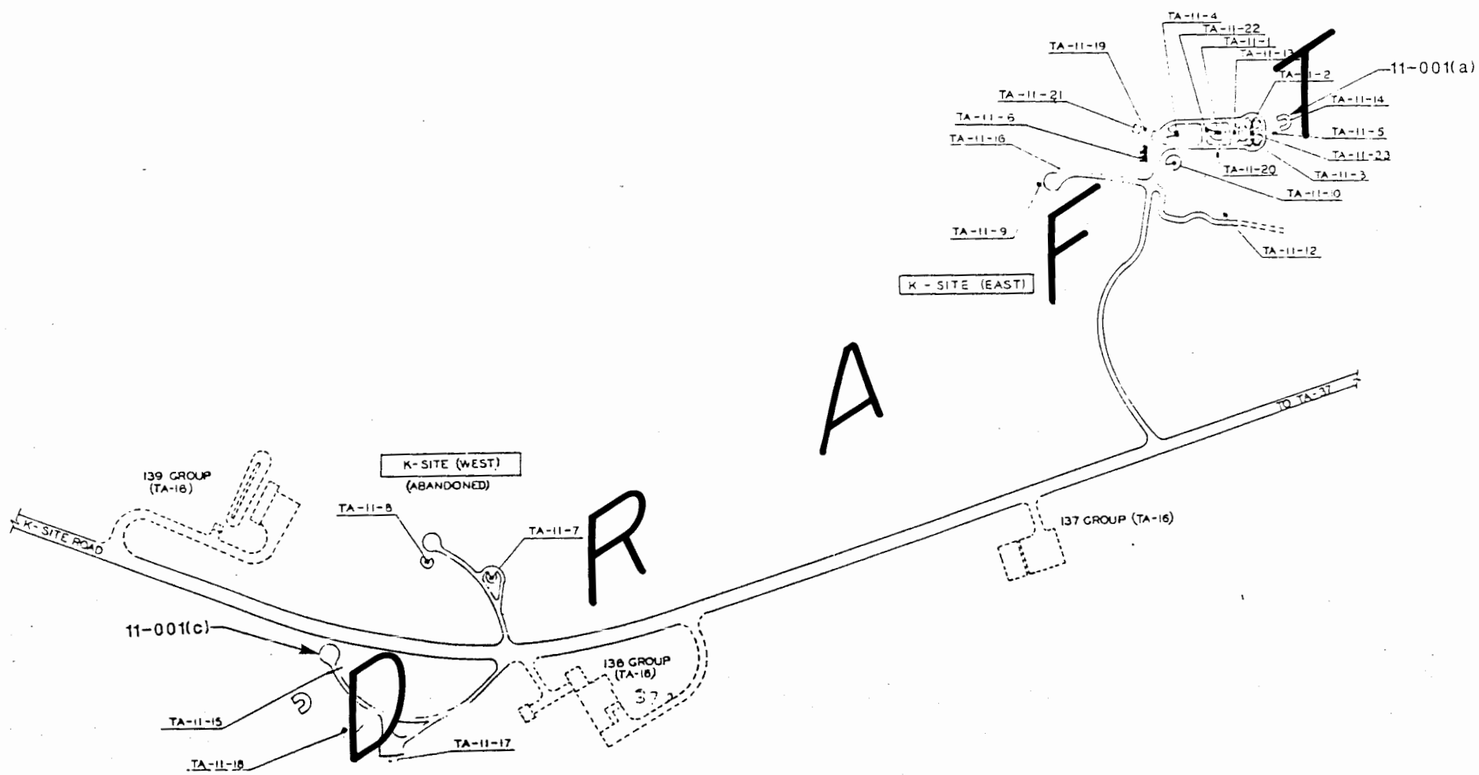
SEC CLASSIFICATION
CLASS U
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED

DRAWN
CHECKED
DATE 8-12-83
SHEET NO 1 of 1
DRAWING NO ENG-R 5108

1001215 02 01 B162

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-11-1	K-1	CONTROL BUILDING
TA-11-2	K-2	BETATRON BUILDING
TA-11-3	K-3	CLOUD CHAMBER BUILDING
TA-11-4	K-4	MACHINE SHOP
TA-11-5	K-5	LABORATORY BUILDING, (RELOCATED)
TA-11-6	K-6	ASSEMBLY BUILDING (RELOCATED)
TA-11-7	K-7	MAGAZINE STORAGE
TA-11-8	K-8	MAGAZINE STORAGE
TA-11-9	K-9	STORAGE BUILDING
TA-11-10	K-10	SHELTER
TA-11-11	K-11	TRIMMING BUILDING (REMOVED)
TA-11-12	K-12	LABORATORY BUILDING
TA-11-13	K-13	MANHOLE
TA-11-14	K-14	FIRING PIT, (ABANDONED)
TA-11-15	K-15	ROAD BLOCK, (ABANDONED)
TA-11-16	K-16	STORAGE TANK
TA-11-17	K-17	STORAGE TANK (ABANDONED)
TA-11-18	K-18	LATRINE (ABANDONED)
TA-11-19	K-19	LABORATORY BLDG.
TA-11-20	K-20	SEPTIC TANK
TA-11-21	K-21	SUBSTATION
TA-11-22	K-22	MANHOLE
TA-11-23	K-23	LABORATORY BLDG.



UNCLASSIFIED

EXPLANATION

11-001 SWMU LOCATION

FIGURE 11-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-11

NORTH MAGNETIC

OFFICIAL USE ONLY 640

REV		
6	REQUIRED NO REV TO STATUS OF JULY, 1954 M.M. 7-15-54	
5	REQUIRED NO REV TO STATUS OF JULY, 1953 D.M. 4-19-53	
4	REQUIRED NO REV TO STATUS OF JULY, 1952 A.S.G. 7-1-52	
3	GENERAL REVISION TO STATUS OF JUN. 1952 J.A.S. 6-2-52	
2	GENERAL REVISION TO STATUS OF JULY, 1951 H.O.B. 7-11-51	
1	GENERAL REVISION TO STATUS OF JUN. 1951 J.A.S. 6-11-51	

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PR., CENSUS, SEC.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

STRUCTURE LOCATION PLAN
TA-11 K-SITE

SCALE 1" = 200' | DRAWN BY: G.R.S. | DATE: 3-31-50 | CHKD. BY: | DATE: | DWG. NO.

301215 02 01 B53

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-11-1	K-1	STORAGE BUILDING		S 57+50 E 17+50
TA-11-2	K-2	CONTROL BUILDING		S 57+50 E 20+00
TA-11-3	K-3	CONTROL BUILDING		S 57+50 E 20+00
TA-11-4	K-4	CONTROL BUILDING		S 57+50 E 17+50
TA-11-5	K-5		REMOVED 1956	
TA-11-6	K-6		DEMOLISHED 1977	
TA-11-7	K-7		REMOVED 1960	
TA-11-8	K-8		REMOVED 1960	
TA-11-9	K-9		REMOVED 1960	
TA-11-10	K-10		REMOVED 1960	
TA-11-11	K-11		REMOVED 1949	
TA-11-12	K-12		REMOVED 1959	
TA-11-13	K-13	MANHOLE	ELECTRICAL	S 57+50 E 20+00
TA-11-14	K-14		REMOVED 1956	
TA-11-15	K-15		REMOVED 1952	
TA-11-16	K-16		REMOVED 1967	
TA-11-17	K-17		REMOVED 1967	
TA-11-18	K-18		REMOVED 1967	
TA-11-19	K-19		REMOVED 1956	
TA-11-20	K-20	TANK, SEPTIC		S 57+50 E 17+50
TA-11-21	K-21	SUBSTATION		S 57+50 E 15+00
TA-11-22	K-22	MANHOLE, ELECTRICAL		S 57+50 E 17+50
TA-11-23	K-23		REMOVED 1956	
TA-11-24	K-24	AIR-GUN BUILDING		S 57+50 E 20+00
TA-11-25	K-25	DROP TOWER		S 57+50 E 20+00
TA-11-26	K-26	CONCRETE PAD		S 57+50 E 20+00
TA-11-27	K-27	HOIST & FOUNDATION		S 57+50 E 20+00
TA-11-28	K-28	HOIST & FOUNDATION		S 57+50 E 20+00
TA-11-29	K-29	MANHOLE, ELECTRICAL		S 57+50 E 20+00
TA-11-30	K-30	VIBRATION TEST BUILDING		S 57+50 E 15+00
TA-11-31	K-31	SUBSTATION		S 57+50 E 15+00
TA-11-32	K-32	MANHOLE, ELECTRICAL		S 57+50 E 15+00
TA-11-33	K-33	EQUIPMENT SHELTER		S 57+50 E 17+00
TA-11-35	K-35		REMOVED 1970	
TA-11-36	K-36	MAGAZINE		S 60+00 E 15+00
TA-11-37	K-37	CAMERA SHIELD		S 57+50 E 20+00
TA-11-38	K-38	CAMERA SHIELD		S 57+50 E 20+00
TA-11-39	K-39	SUMP PIT		S 57+50 E 20+00
TA-11-40	K-40	INSTRUMENTATION SHIELD		S 57+50 E 20+00
TA-11-41	K-41	DROP PAD		S 57+50 E 20+00
TA-11-42	K-42	DROP PAD		S 57+50 E 20+00
TA-11-43	K-43	TANK, SEPTIC		S 57+50 E 17+50
TA-11-44	K-44	MANHOLE, WATER		S 57+50 E 20+00
TA-11-45	K-45	INSTRUMENTATION ENCLOSURE		S 57+50 E 20+00
TA-11-46	K-46	PERSONNEL BARRIER		S 57+50 E 20+00
TA-11-47	K-47	PERSONNEL BARRIER		S 55+00 E 15+00
TA-11-48	K-48	PERSONNEL BARRIER		S 55+00 E 15+00
TA-11-49	K-49	TRANSFORMER STATION		S 60+00 E 12+50
TA-11-50	K-50	CATCH BASIN		S 57+50 E 22+50
TA-11-51	K-51	CATCH BASIN		S 60+00 E 22+50
TA-11-52	K-52	CATCH BASIN		S 60+00 E 22+50
TA-11-53	K-53	SPHERE IMPACT TARGET		S 60+00 E 17+50

D R A F T

FIGURE 11-3

TA-11 STRUCTURE LOCATION INDEX

REV.	DATE	REVISION	BY	CKD	APP
16	8-22-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-11 K-SITE

SEC. CLASSIFICATION: CLASS U; REVIEWER; DATE 9-23-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 8-22-83; SHEET NO. 1 of 2; DRAWING NO. ENG-R 5108

UNCLASSIFIED

TA-12

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 12 is currently inactive except for one small experiment. It is an old firing site that was also used in conjunction with several other types of experiments.

TA-12 is at an elevation of 7,300 feet asl. It is located on Pajarito Mesa which narrows to less than 1,000 feet width between steep-walled Pajarito Canyon on the north and a steep-sided branch of Pajarito Canyon on the south. TA-12 lies on welded Bandelier Tuff. The area is in the Pinon-Juniper overstory vegetation zone.

At TA-12, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,000 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

SUMMARY

LOCATION: TA-12
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1944 - 1953

UNIT INFORMATION

A large steel-lined and steel covered pit, TA-12-4 [12-001(a)], was once used in firing experiments at TA-12. It measures (according to the RFA) 30' x 40' x 20' deep. Another smaller open pit is located east of TA-12-4 [12-001(b)]. It measures approximately 5' x 5' and is also inactive. It is suspected to have been used in firing experiments using uranium.

WASTE INFORMATION

The waste remaining at the site consists of firing residues potentially containing uranium and lead. The presence of undetonated HE is unlikely.

RELEASE INFORMATION

There are no residues presently remaining in the covered pit based on visual observations in 1987. It is unknown whether releases of hazardous wastes have occurred from the smaller pit, although radiation has been measured at levels greater than background.

DRAFT

12-002 BURN SITE

SUMMARY

LOCATION: TA-12
TYPE OF UNIT(s): BURN SITE
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1962

UNIT INFORMATION

This unit, located about 200' from TA-12-4, measures a few square feet at most and was used on one occasion in 1962 to burn residual HE found around the site.

WASTE INFORMATION

The unit was originally used to burn HE material. Residuals are not expected to remain at the site.

RELEASE INFORMATION

There are no known releases of hazardous wastes from this unit.

DRAFT

12-003 GAS CYLINDER STORAGE AREA

SUMMARY

LOCATION: TA-12
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1968 - PRESENT

UNIT INFORMATION

This unit is a gas cylinder storage area located on the south side of the road about 1 mile east of TA-12-4. Two gas cylinders are located there, although it has not been in active use for additional storage.

WASTE INFORMATION

One of the cylinders is marked "acetylene". Information on the contents of the other cylinder was unavailable.

RELEASE INFORMATION

There have been no known hazardous releases from this unit.

DRAFT

SUMMARY

LOCATION: TA-12
TYPE OF UNIT(s): OTHER: EXPERIMENT
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1950

UNIT INFORMATION

In 1950, TA-12 was the site of a radiation experiment on animals. A radiation shelter, a telephone pole, and a lead pot [12-004(a)] were used for the tests. The radiation shelter and pole are still present at this site. The shelter has dimensions of 50' x 30' x 6' high. During the 1987 CEARP field survey, an aluminum pipe [12-004(b)], approximately 18 inches in diameter and unknown length, was observed at ground level. The pipe was filled with liquid.

WASTE INFORMATION

The source for the experiment was radioactive lanthanum. A 1959 survey reported the shelter and pole to be contaminated with HE and strontium-90. The constituents of the liquid in the pipe are unknown. The liquid will be sampled for HE and radioactivity during Supplemental Phase I.

RELEASE INFORMATION

In 1966, the area was surveyed and all remaining structures and equipment was found to be contaminated. It is unknown if the pipe has released hazardous waste.

DRAFT

TA-12 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
12-001(a)	12-1
12-001(b)	12-1
12-002	Not shown, location unknown
12-003	Not shown, location unknown
12-004(a)	12-1
12-004(b)	12-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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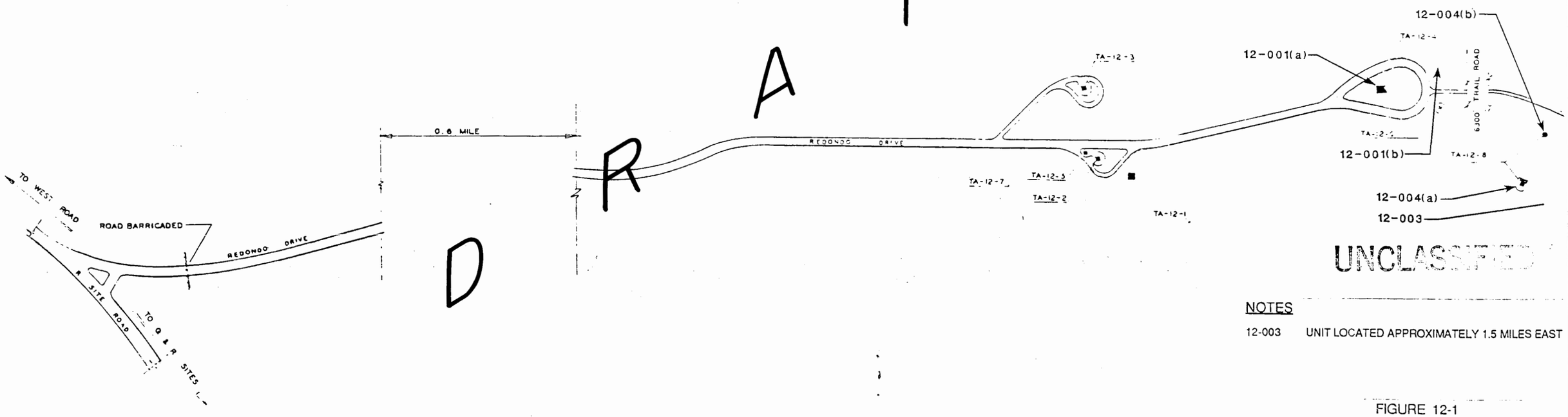
301215 01 B130

STRUCTURE NUMBER	DESIGNATION	REMARKS	
TA-12-1	L-1	TRIMMING BUILDING	(ABANDONED)
TA-12-2	L-2	CONTROL CHAMBER	"
TA-12-3	L-3	STORAGE MAGAZINE	"
TA-12-4	L-4	FIRING PIT	"
TA-12-5	L-5	GENERATOR BUILDING	"
TA-12-6	L-6	JUNCTION BUILDING	"
TA-12-7	L-7	ROAD BLOCK	"
TA-12-8	L-8	RADIATION TEST STRUCTURE	"

DRAFT

EXPLANATION

12-001 SWMU LOCATION



UNCLASSIFIED

NOTES

12-003 UNIT LOCATED APPROXIMATELY 1.5 MILES EAST

FIGURE 12-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-12

NORTH (MAGNETIC)

REV	
6	REQUIRED NO REV TO STATUS OF JULY/1955 N.O.B. 8-24-56
5	GENERAL REVISION TO STATUS OF JUNE/1954 MAG. REV. 7-14-54
4	GENERAL REV TO STATUS OF APR/1953 8-15-53
3	REQUIRED NO REV TO STATUS OF JULY, 1952 4-9-52
2	REQUIRED NO REV TO STATUS OF JAN., 1952 2-6-52 1-28-52
1	REQ. NO REV TO STATUS OF JULY/1951 7-10-51
0	GENERAL REVISION TO STATUS OF JAN/1951 2-13-51

AUTHORIZED FOR	
HEALTH	
SAFETY	
FIRE PR.	
COMM.	
SEC	

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

STRUCTURE LOCATION PLAN
TA - 12 L - SITE

SCALE	DRAWN BY	DATE	DWG NO
1" = 200'	CHKD BY	DATE	

OFFICIAL USE ONLY

TA-13

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 13 is now part of TA-16. The physical characteristics of this site are described under TA-16.

DRAFT

13-001 FIRING SITE

SUMMARY

LOCATION: TA-13
TYPE OF UNIT(s): FIRING SITE
UNIT USE: DISPOSAL/TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1944 - 1949

UNIT INFORMATION

This firing site was located between TA-13-3 and TA-13-4, two battleship bunker buildings. It was used for firing explosive experiments. Because the size of the shots fired is not known, the impacted area is not well delineated. (One shot has been reported as 203 lbs.)

WASTE INFORMATION

The debris from firing experiments probably included steel, iron, polonium (now decayed), and possibly uranium. No records exist as to whether any of the shots went low order.

RELEASE INFORMATION

There is no documentation on any possible residual contamination.

DRAFT

SUMMARY

LOCATION: TA-13
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: LATE 1940's

UNIT INFORMATION

Miscellaneous experiments had taken place as the result of which a fair amount of radioactive contamination has been scattered on the shelf area leading down into the canyon on the northeast side of the firing area. A 1948 memo mentions that contaminated items in the canyon at TA-13 had been removed and disposed of in the disposal area for contaminated material. Whether all the contamination on the shelf area was removed is not clear.

WASTE INFORMATION

The waste included possible radionuclides and HE.

RELEASE INFORMATION

The area has been at least partially or perhaps completely decommissioned. It is not known whether all contaminated materials were removed at the time of decommissioning.

DRAFT

SUMMARY

LOCATION: TA-13
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1940's

UNIT INFORMATION

An engineering drawing indicates that TA-13-12 [13-003(a)] was a septic tank removed in 1951. Details on its removal and possible contamination, as well as possible contamination from its overflowing, are unavailable. A U.S. Engineer's Office construction drawing of TA-13 shows the septic tank to have a drain field [13-003(b)] to the northwest of the tank.

WASTE INFORMATION

The type of liquid wastes discharged to the septic tank is not known.

RELEASE INFORMATION

Information on possible releases from the septic tank and drain fields is lacking.

DRAFT

13-004 BURNING PITS

SUMMARY

LOCATION: TA-13
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's - 1950

UNIT INFORMATION

According to CEARP, a 1951 memo mentions burning pits at TA-13. The number of pits and the locations are unknown.

WASTE INFORMATION

The type of waste burned in the pits is unknown.

RELEASE INFORMATION

It is unknown if a hazardous release has occurred from these pits.

DRAFT

TA-13 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
13-001	13-1
13-002	13-1
13-003(a)	Not shown, location unavailable
13-003(b)	Not shown, location unavailable
13-004	Not shown, location unavailable

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B121

~~CONFIDENTIAL~~
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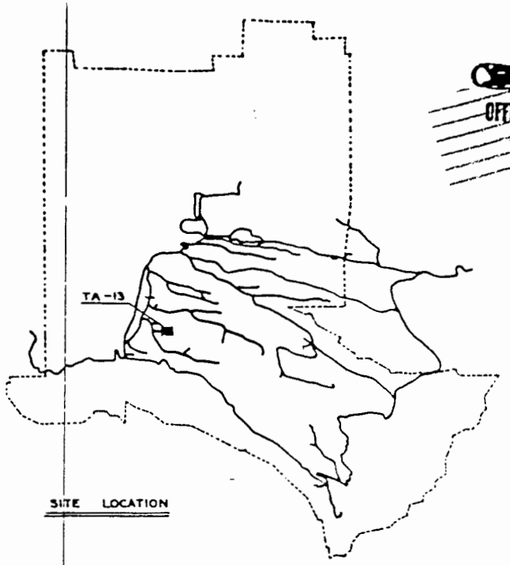
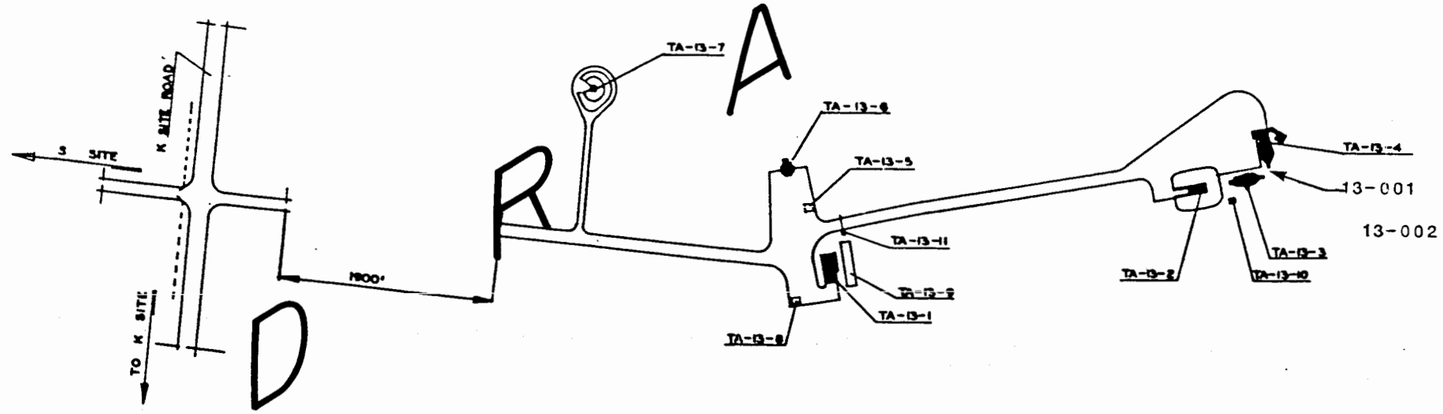


STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-13-1	P-1	OFFICE & SHOP BUILDING
TA-13-2	P-2	LABORATORY BUILDING
TA-13-3	P-3	LABORATORY BUILDING
TA-13-4	P-4	LABORATORY & MACHINE TEST BLDG.
TA-13-5	P-5	STORAGE BUILDING, REMOVED
TA-13-6	P-6	EXPERIMENTAL CHAMBER
TA-13-7	P-7	MAGAZINE
TA-13-8	P-8	STORAGE BUILDING, REMOVED
TA-13-9	P-9	BARRICADE
TA-13-10	P-10	MANHOLE
TA-13-11	P-11	ROAD BLOCK

NOTES

UNIT 13-002: UNIT LOCATED ON SHELF ABOVE CANYON; SPECIFIC LOCATION UNAVAILABLE.



EXPLANATION

13-001 SWMU LOCATION

FIGURE 13-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-13

OFFICIAL USE ONLY

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VOID

(Moved to Site TA-16)

OBSOLETE DEAD STORAGE

LOS ALAMOS SCIENTIFIC LABORATORY

STRUCTURE LOCATION PLAN
TA-13 P- SITE

1" = 100'

E1984-R188

UNCLASSIFIED

TA-14

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 14 is occupied by the Explosives Technology and the Explosives Application Groups which are involved with the development and testing of explosives. Radioactive materials and high explosives. Metals, such as lead, and beryllium may also be present at TA-14.

TA-14 is located on the top of a broad mesa, bounded on the north by a branch Pajarito Canyon and on the south by Cañon de Valle. The canyon walls range from steep to moderate slopes in the area of TA-14. The area is underlain by welded Bandelier Tuff.

TA-14 lies at altitudes between about 7,350 and 7,400 feet asl. The area is within the Ponderosa Pine overstory vegetation zone. Three soil series are present at TA-14. The Carjo loam is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential, measured as the soil loss from a two-year, 30-minute event on bare soil, is moderate (0.14 to 0.51 cm). The Pogna fine sandy loam is a well-drained soil typical of gently to steeply sloping mesa tops. The water holding capacity of the soil is low, and the permeability is moderately rapid (5.0 to 16 cm/h). Runoff potential is moderate so that soil loss from a bare soil during a two-year, 30-minute precipitation event, is 0.14 to 0.51 cm. The soil is typically 25 to 50 cm thick. It is not desirable for septic systems, sewage lagoons, sanitary landfills, or for water management structures. The Frijoles very fine sandy loam is a deep (152 cm), well-drained soils with moderately slow permeability (0.5 to 1.6 cm/h) in the upper 45 cm and very rapid (>50 cm/h) below. Runoff is slow to medium and the erosion hazard is moderate (0.14 to 0.51 cm, measured as the soil loss due to the two-year, 30-minute precipitation event).

The potentiometric surface of the main aquifer in the Los Alamos region lies at 6,100 feet asl. Over 1,000 feet of unsaturated tuff and volcanic rock separate the surface from the aquifer. There is little potential for downward flow from the surface because of the low moisture conditions of the tuff.

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): FIRING SITE
UNIT USE: PRODUCTION
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1944 - PRESENT

UNIT INFORMATION

Several active and inactive firing sites are present in TA-14. The CEARP describes some of these sites as open and closed chambers and firing pads. Of the original firing sites, several were removed during the renovation in 1952 (see 14-002) and new firing sites were added. These latter structures remain active today. Active areas are shown on engineering drawing ENG-R5109 (Figure 14-1). The following pull box structures are associated with firing areas: TA-14-25 [14-001(a)]; TA-14-26 [14-001(b)]; TA-14-27 [14-001(c)]; TA-14-28 [14-001(d)]; TA-14-29 [14-001(e)]. No information on shots fired from the 1950's to the present has been collected, but the records are available from Group M-1, according to the CEARP. TA-14-35, 14-001(g), is a firing pad that was completed in 1964. It is constructed of reinforced concrete 5' x 5' x 2' thick. To safely dispose of the scrap HE, the pieces are detonated at TA-14-35. A gun firing site was constructed in 1957. This facility, TA-14-34 [14-001(f)], is referred to as a bullet test facility. It is constructed of reinforced concrete 13'4" x 13'8" x 8' high. Apparently, some uranium-238 from some of these shots flew into the nearby woods.

WASTE INFORMATION

Explosives used in shots at this site included pentolite, torpex, tamped tetryl, Composition B, baratol, and TNT. Lead was involved in at least the early shots. Several shots involving radioactive lanthanum which has now decayed were also made. The extent of strontium contamination in these shots is not known. Records indicate that uranium and beryllium were used in shots.

RELEASE INFORMATION

The testing sometimes results in high explosives being scattered. Although larger pieces are collected, smaller pieces are left in the surrounding area. It is not known how much residual high explosive may be in the surrounding area. No comprehensive field studies of this area are currently available; however, uranium has been detected.

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1940's - 1950's

UNIT INFORMATION

Since its construction in 1944, TA-14 has had many firing sites. The following sites have been decommissioned: a closed chamber in TA-14-2 [14-002(a)]; a firing pedestal, TA-14-17 [14-002(b)]; the area around TA-14-5, TA-14-14, TA-14-15 and TA-14-12 [14-002(c), (d), (e), and (f), respectively]. In 1952, TA-14 was completely renovated and TA-14-12 and -17 were removed. TA-14-2 was removed in 1973, and TA-14-14 and -15 were removed in 1957.

WASTE INFORMATION

The wastes consisted of residues from firing experiments. Explosives probably included pentolite, torpex, tamped tetryl, composition B (65% TNT / 35% HMX), baratol and TNT. Lead, uranium and beryllium were used in some shots and others contained radioactive lanthanum and strontium-90.

RELEASE INFORMATION

Although very little sampling has been undertaken to determine if releases occurred, LANL staff with knowledge of the area believe hazardous releases may have occurred.

DRAFT

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): BURNING SITE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's - 1960's

UNIT INFORMATION

In the 1950's a trash burning area was located to the east of TA-14-23, near the eastern site boundary, as shown on drawing ENG-R129 (Figure 14-2). The site appears to have been a semi-circular enclosure.

WASTE INFORMATION

The waste is believed to have probably consisted of HE contaminated items. Residuals from trash burning may have included barium, lead, uranium, and other contaminants.

RELEASE INFORMATION

There has been no sampling of the area to determine whether a hazardous release has occurred.

DRAFT

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

According to the RFA, there are approximately 20 to 30 55-gallon drums on a 40' square concrete pad in Building TA-14-23. The drums described in the RFA were experimental material and have been removed. TA-14-22 and -23 [14-004(a) and (b)] are used for satellite storage of scrap HE. Another storage area is located adjacent to TA-14-35 [14-004(c)]. This area has been removed.

WASTE INFORMATION

The drums at TA-14-23 contain experimental material and product fuel oil. According to the CEARP, the scrap HE is stored at TA-14-22 and -23 in less than 5 gallon amounts and is removed from the area at frequent intervals. The material stored near TA-14-35 was contaminated with HE. TA-14-23 also contains paper and small noncombustible laboratory items potentially contaminated with HE.

RELEASE INFORMATION

There is no evidence of releases from these areas.

DRAFT

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): INCINERATOR
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1950's - PRESENT

UNIT INFORMATION

This unit is a drum-type incinerator of approximately 3 cubic feet per burn capacity set on a steel tray used to burn paper contaminated with explosives, as well as small pieces of laboratory equipment potentially contaminated with HE. The incinerator is located near TA-14-35. This unit has RCRA interim status. The RFA describes this area as metal canisters used to burn HE waste.

WASTE INFORMATION

The waste consists of paper and small equipment contaminated with HE.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred.

DRAFT

14-006 SUMP AND DRAIN

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1952 - PRESENT

UNIT INFORMATION

This unit consists of a sump and associated plumbing. The sump is structure number TA-14-31 and is a steel and concrete unit used to separate small HE pieces from liquid. The decant discharges to a NPDES outfall. Sludge in the sump is picked up for burning. A drain in Control Building 23 is connected to the sump, TA-14-31, as shown on ENG-R109 (Figure 14-1). The sump is 4'6" x 8'4" x 4'9.5" deep.

WASTE INFORMATION

The waste consists of sludge from HE contaminated wash water.

RELEASE INFORMATION

There are no known hazardous releases associated with this unit.

DRAFT

14-007 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1955 - PRESENT

UNIT INFORMATION

The CEARP states that according to engineering drawings R635 and R636, Building TA-14-6 is served by septic tank TA-14-19, that has an overflow to a drain line. This building was used as a shop and darkroom. The tank is constructed of reinforced concrete, is 4' x 6'8" x 6' deep and has a capacity of 640 gallons.

WASTE INFORMATION

The system currently manages sanitary waste. There is some possibility that in past years wastes other than sanitary may have been discharged to this tank.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred from previous discharges.

DRAFT

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1950 - ?

UNIT INFORMATION

One possible landfill at TA-14 was described by a long-time employee. The employee does not remember the exact location of the burial and does not believe that the material contained hazardous substances.

WASTE INFORMATION

There is no known hazardous waste in the landfill.

RELEASE INFORMATION

There have been no known releases of hazardous materials from this landfill.

DRAFT

14-009 SURFACE DISPOSAL

SUMMARY

LOCATION: TA-14
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A surface disposal practice at TA-14 is to place split sandbags that have been used around firing areas in regions that require erosion control.

WASTE INFORMATION

Sandbags used at firing sites could have uranium, lead and possibly beryllium.

RELEASE INFORMATION

Some uranium has been noted in soils in some areas at TA-14. Whether the source of the uranium was the surface disposal of sandbags, storage, or firing activities is not known.

DRAFT

TA-14 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
14-001(a)	14-1
14-001(b)	14-1
14-001(c)	14-1
14-001(d)	14-1
14-001(e)	14-1
14-001(f)	14-1
14-001(g)	14-1
14-002(a)	14-2
14-002(b)	Not shown
14-002(c)	14-2
14-002(d)	14-2
14-002(e)	14-2
14-002(f)	Not shown
14-003	14-2
14-004(a)	14-1
14-004(b)	14-1
14-004(c)	14-1
14-005	14-1
14-006	14-1
14-007	14-1
14-008	Not shown, location unknown
14-009	Not shown, location unknown

NOTE: Some structure locations contain more than one SWMU.

DRAFT

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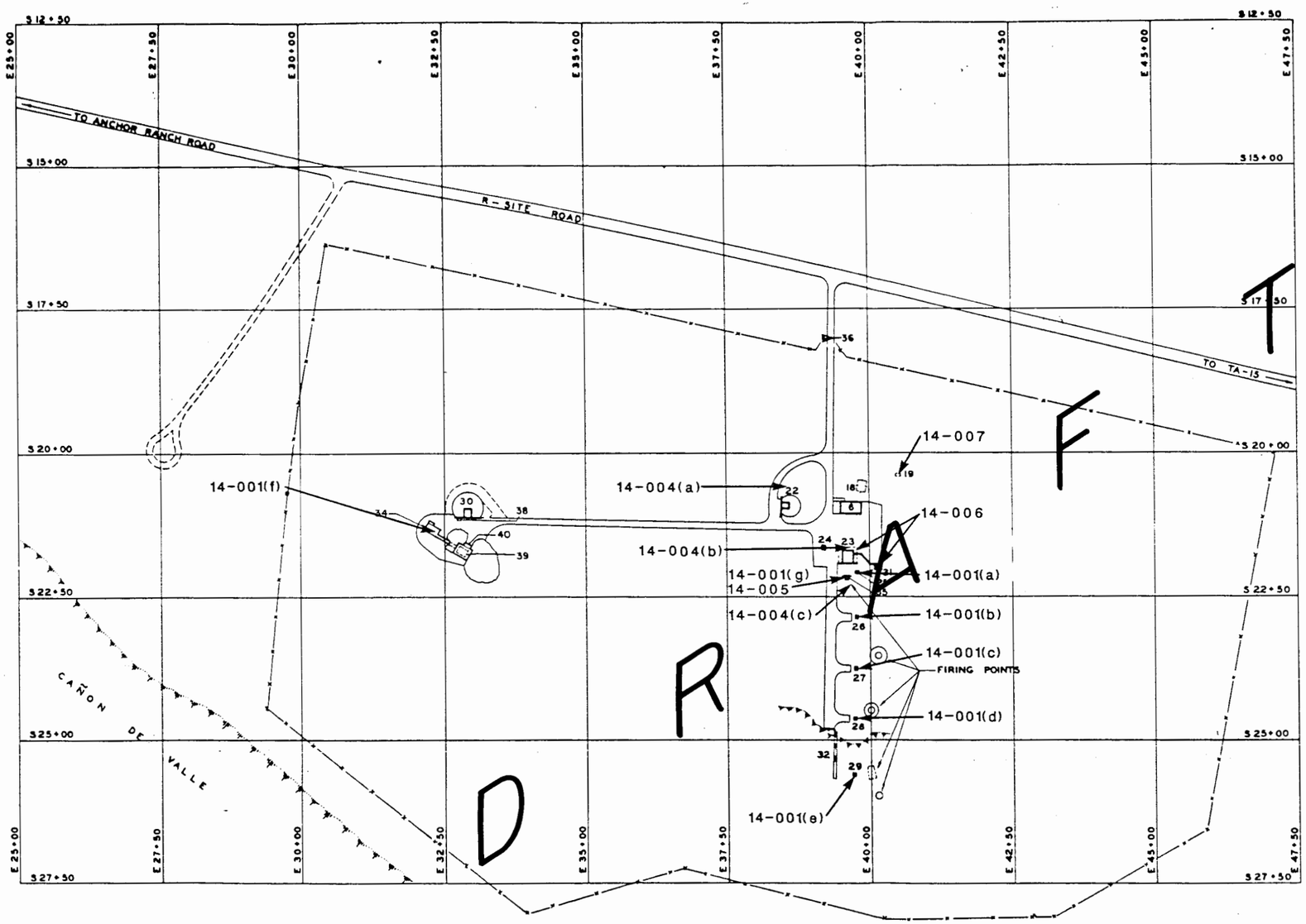

1" = 100'-0"

GRAPHIC SCALE

EXPLANATION

14-001 SWMU LOCATION

NOTES

UNIT 14-004(c): EXACT LOCATION IS UNKNOWN.

UNCLASSIFIED

FIGURE 14-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-14

REV.	DATE	REVISION	BY	CKD	APP
16	8-3-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-14 Q-SITE

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 8-23-83

SUBMITTED
RECOMMENDED
APPROVED
DRAWN
CHECKED
DATE 8-3-83
SHEET NO. 2 OF 2
DRAWING NO. ENG-R 5109

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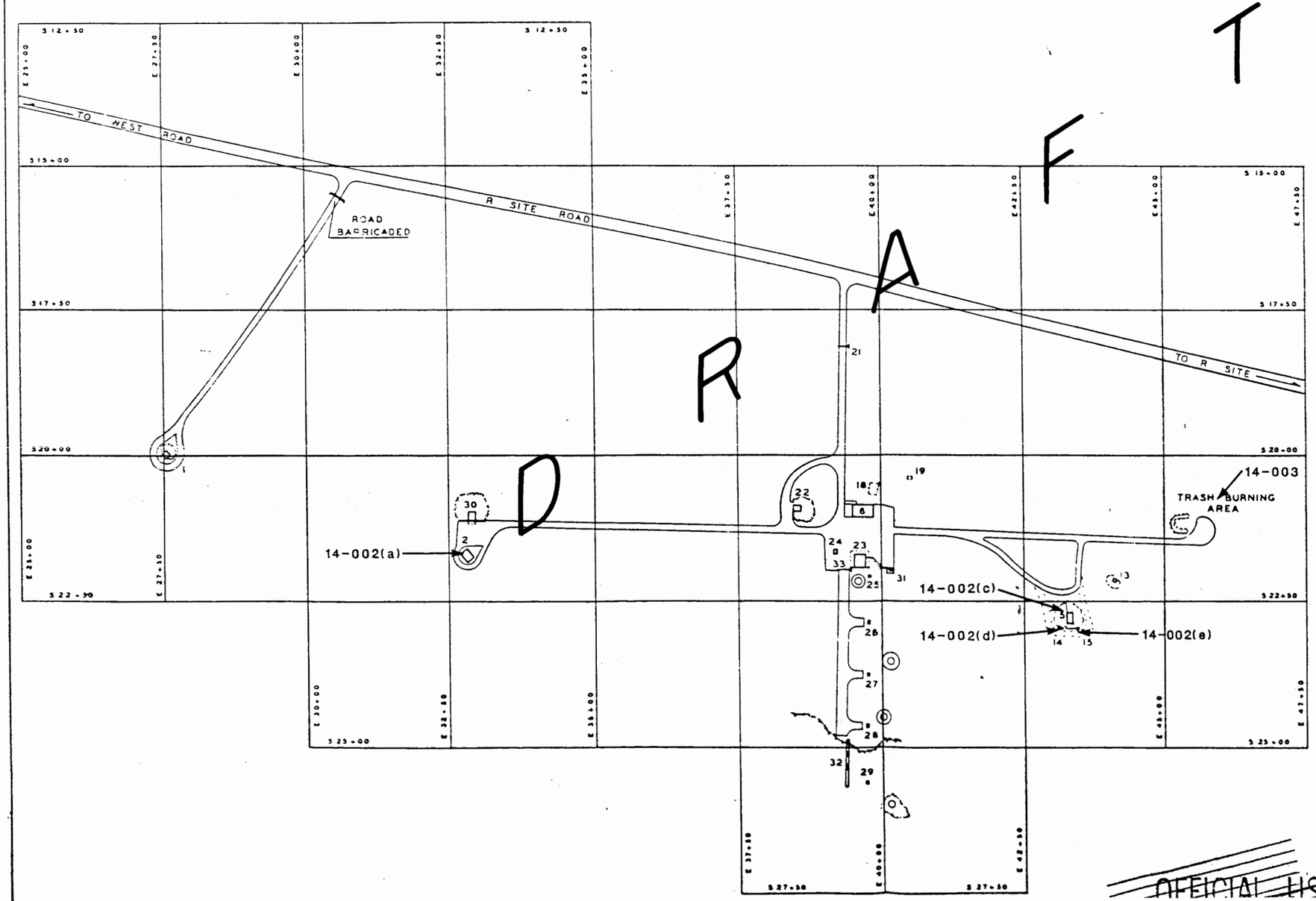
3012... 2 01 B80

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-14-1	Q-1	MAGAZINE
TA-14-2	Q-2	CLOSED CHAMBER
TA-14-3	Q-3	CONTROL ROOM (REMOVED)
TA-14-4	Q-4	EXPL PREP BLDG (REMOVED)
TA-14-5	Q-5	CONTROL BLDG.
TA-14-6	Q-6	SHOP & DARK ROOM
TA-14-7	Q-7	ELECTRIC SHOP (REMOVED)
TA-14-8	Q-8	STORAGE BLDG (REMOVED)
TA-14-9	Q-9	MAGAZINE (REMOVED)
TA-14-10	Q-10	STORAGE (REMOVED)
TA-14-11	Q-11	MAGAZINE (REMOVED)
TA-14-12	Q-12	JUNCTION BOX SHELTER (REMOVED)
TA-14-13	Q-13	MAGAZINE
TA-14-14	Q-14	EQUIPMENT BOX NO. 1
TA-14-15	Q-15	EQUIPMENT BOX NO. 2
TA-14-16	Q-16	ROAD BLOCK (REMOVED)
TA-14-17	Q-17	FIRING PEDESTAL (REMOVED)
TA-14-18	Q-18	SUBSTATION
TA-14-19	Q-19	SEPTIC TANK
TA-14-20	Q-20	RESERVE
TA-14-21	Q-21	BARRICADE GATE
TA-14-22	Q-22	MAGAZINE
TA-14-23	Q-23	CONTROL BLDG.
TA-14-24	Q-24	MAGAZINE
TA-14-25	Q-25	PULL BOX
TA-14-26	Q-26	PULL BOX
TA-14-27	Q-27	PULL BOX
TA-14-28	Q-28	PULL BOX
TA-14-29	Q-29	PULL BOX
TA-14-30	Q-30	MAGAZINE
TA-14-31	Q-31	FILTER BOX
TA-14-32	Q-32	STAIRWAY
TA-14-33	Q-33	BARRICADE GATE



DRAFT

UNCLASSIFIED

EXPLANATION

14-002 SWMU LOCATION

FIGURE 14-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-14

NO.	DATE	REVISIONS	BY	CHKD
7	3Jan77	REDRAWN TO STATUS OF JULY 1, 1955	NOS	JAS

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

STRUCTURE LOCATION PLAN
TA-14 Q SITE

CHECKED — DESIGNER; RECOMMENDED — GROUP LEADER; APPROVED — ENG. DEPARTMENT

DRAWN: N. BYERS; DATE: 9/30/55; DRAWING NO.: ENG. B 129

AUTHORIZED FOR

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301215 02 01 B18

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-14-1	Q-1		REMOVED 1960	
TA-14-2	Q-2		REMOVED 1973	
TA-14-3	Q-3		REMOVED 1952	
TA-14-4	Q-4		REMOVED 1952	
TA-14-5	Q-5		REMOVED 1982	
TA-14-6	Q-6	STORAGE BUILDING		S 20+00 E 40+00
TA-14-7	Q-7		REMOVED 1952	
TA-14-8	Q-8		REMOVED 1952	
TA-14-9	Q-9		REMOVED 1952	
TA-14-10	Q-10		REMOVED 1952	
TA-14-11	Q-11		REMOVED 1952	
TA-14-12	Q-12		REMOVED 1952	
TA-14-13	Q-13		REMOVED 1960	
TA-14-14	Q-14		REMOVED 1957	
TA-14-15	Q-15		REMOVED 1957	
TA-14-16	Q-16		REMOVED 1952	
TA-14-17	Q-17		REMOVED 1952	
TA-14-18	Q-18	TRANSFORMER STATION		S 20+00 E 40+00
TA-14-19	Q-19	SEPTIC TANK, SANITARY		S 20+00 E 40+00
TA-14-20	Q-20		CANCELLED	
TA-14-21	Q-21		REMOVED 1964	
TA-14-22	Q-22	MAGAZINE		S 20+00 E 37+50
TA-14-23	Q-23	CONTROL BUILDING		S 22+50 E 40+00
TA-14-24	Q-24	EQUIP. BLDG		S 22+50 E 40+00
TA-14-25	Q-25	PULLBOX	CONTROL	S 22+50 E 40+00
TA-14-26	Q-26	PULLBOX	CONTROL	S 22+50 E 40+00
TA-14-27	Q-27	PULLBOX	CONTROL	S 25+00 E 40+00
TA-14-28	Q-28	PULLBOX	CONTROL	S 25+00 E 40+00
TA-14-29	Q-29	PULLBOX	CONTROL	S 25+00 E 40+00
TA-14-30	Q-30	EXPLOSIVES PREP. BLDG		S 20+00 E 32+50
TA-14-31	Q-31	FILTER BOX		S 22+50 E 40+00
TA-14-32	Q-32	STAIRWAY		S 25+00 E 40+00
TA-14-33	Q-33		RELOCATED TO TA-40-38	
TA-14-34	Q-34	BULLET TEST FACILITY		S 22+50 E 32+50
TA-14-35	Q-35	FIRING PAD		S 22+50 E 40+00
TA-14-36	Q-36	ROAD BLOCK	FORMERLY TA-9-167	S 22+50 E 40+00
TA-14-37	Q-37		CANCELLED	
TA-14-38	Q-38	CAMERA BUILDING		S 22+50 E 32+50
TA-14-39	Q-39	HIGH EXPLOSIVE TEST FACILITY		S 22+50 E 32+50
TA-14-40	Q-40	INSTRUMENTATION BUILDING		S 22+50 E 32+50
TA-14-41	Q-41	BARRICADE		S 22+50 E 32+50
TA-14-42	Q-42	BARRICADE		S 22+50 E 32+50
TA-14-43	Q-43		CANCELLED	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

UNCLASSIFIED

FIGURE 14-3

TA-14 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
17	8-3-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-26-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-14 Q - SITE

SEC CLASSIFICATION
CLASS U
REVIEWER
DATE 4-23-83

SUBMITTED / RECOMMENDED / APPROVED

DRAWN
CHECKED

DATE 8-3-83
SHEET NO 1 OF 2
DRAWING NO ENG-R 5109

TA-15

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 15 is principally a firing site which has been active almost from the beginning of Laboratory operations. Current major activities center around two facilities: the Pulse High Energy Radiographic Machine Emitting X-Rays (PHERMEX) and Ector, which make radiographs of exploding or imploding systems. TA-15 incorporates several separate units connected by roads.

TA-15 lies at elevations between 7,100 and 7,280 feet asl. It is located on a mesa which is bifurcated by Potrillo Canyon. The northern part of the mesa is bounded by unnamed branches of Pajarito Canyon and on the south by Potrillo Canyon. The southern mesa is bounded on the north by Potrillo Canyon and on the south by Water Canyon and Canon de Valle which joins Water Canyon south of TA-15. Canyon walls are steep or cliffs in this area. TA-15 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine and Pinon-Juniper overstory vegetation zones.

Three soil series make up most of the soils present at TA-15. The Pogna fine sandy loam is a well-drained soil typical of gently to steeply sloping mesa tops. The water holding capacity of the soil is low, and the permeability is moderately rapid (5.0 to 16 cm/h). Runoff potential is moderate so that soil loss from a bare soil during a two-year, 30-minute precipitation event, is 0.14 to 0.51 cm. The soil is typically 25 to 50 cm thick. It is not desirable for septic systems, sewage lagoons, sanitary landfills, or for water management structures. The Carjo loam is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Runoff in this slowly permeable (0.15 to 0.5 cm/h) soil is medium, and the erosion potential is moderate (0.14 to 0.51 cm). The Seaby loam is shallow to moderately deep (25 to 66 cm), well-drained soil that forms from tuff on gentle to moderate slopes. The soils permeability is moderate (1.6 to 5.0 cm/h) in the upper layers and very rapid (>50 cm/h) below. The available water-holding capacity of the soil is low, and the runoff and erosion hazards are moderate (0.14 to 0.51 cm).

At TA-15, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,900 and 6,000 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): OTHER: BONEYARD
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1960's - PRESENT

UNIT INFORMATION

The unit is a boneyard, an area used to store equipment, to the east of TA-15-233. The unit stores steel, equipment, and experimental vessels.

WASTE INFORMATION

Some of the experimental vessels are labeled with radioactive signs. The vessels are suspected of containing mixed waste when they were used in experiments.

RELEASE INFORMATION

It is unknown whether releases from this unit have occurred. LANL staff consider releases unlikely, because there is no visible residual contamination on the vessels; however, no soil sampling has been done.

DRAFT

15-002 BURNING AREA

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): PIT
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's - 1970's

UNIT INFORMATION

On a few occassions near or at the E-F site, depleted uranium and or natural uranium turnings were burned with gasoline and HE or mixed with oil and burned. The CEARP states that an employee reported one site to be located 100-150 yds. west of E-F site.

WASTE INFORMATION

Waste still present might include uranium. The RFA reports suspected hazardous waste that may include barium and nitrates from the HE. However, LANL staff believe the amount of HE mixed with the uranium to have been very small.

RELEASE INFORMATION

Releases of combustion products to the air are known to have occurred. Uranium from detonations at the E-F site and from burning is anticipated to remain in the soil.

DRAFT

15-003 DETONATION AREA

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): OPEN DETONATION
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1960's - PRESENT

UNIT INFORMATION

The unit is an open detonation area at TA-15-184. It is used for disposal of waste HE scraps by detonation. The unit is a steel pad approximately 12' x 24' and 6" thick. Two bunkers are used to store scrap HE for short periods of time until it is detonated. A closure and sampling plan for this unit has been submitted as part of the Part B Permit Application.

WASTE INFORMATION

The waste managed by this unit is scrap HE. LANL staff believe the only toxic compound at the site from detonations is barium, present only when barium-containing HE is detonated. The detonation products will be oxides of carbon and nitrogen.

RELEASE INFORMATION

It is known that barium has been released. The extent of barium in the environment is unknown.

DRAFT

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): FIRING SITE
UNIT USE: DISPOSAL/TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Several firing areas were used in the 1940's: 1) Two unamed firing points were built in 1944 and removed in 1947. 2) Firing Point A was probably in use by late 1944 and was used only a short time. 3) Firing Point B was used in the mid-1940's and is believed to have not been used after 1947. 4) Firing Point C was built in 1947 and is believed to have been abandoned in 1949. It was removed in 1969. 5) Firing Point D was built in about 1946, abandoned in 1949, and removed in 1967. 6) Firing Point E was built between 1944 and 1947. Firing Point E and Firing Point F were later combined to make the E-F Firing Area. The E-F Area was used extensively and was probably in use until the 1970's. 7) Firing Point G was built in 1948 and was probably used until 1953. Several of the structures were removed in 1967. 8) Firing Point H was built in 1948 and was also probably used until 1953. 9) Firing Point I-J has been transferred to TA-36 and is discussed under that TA. Decommissioned components of firing area at TA-15 include:

STRUCTURE	SWMU NO.	FIRING PT./TYPE	BUILT-REMOVED	DIMENSIONS
TA-15-176	15-004(a)	unamed/platform	1944-1947	12' x 12' x 2'/concrete
TA-15-177	15-004(b)	unamed/platform	1944-1947	12' x 12' x 2'/concrete
TA-15-6	15-004(c)	A/control chamber	1944-1959	10' x 10' x 9'/wood frame
TA-15-14	15-004(d)	A/x-unit chamber	1947-1967	4' x 4' x 8'/concrete
TA-15-73	15-004(e)	B/plate barricade	1944-1967	5' x 4' x 2'/concrete
TA-15-35	15-004(f)	C/control chamber	1947-1967	4'9" x 4' x 8'/wood
TA-15-34	15-004(g)	D/control chamber	1946-1967	9' x 9' x 8'/concrete
TA-15-26	15-004(h)	E/x-unit chamber	1944-1952	
TA-15-16	15-004(i)	G/barricade	1948-1967	40' x 6' x 12'
TA-15-28	15-004(j)	G/x-unit chamber	1948-1967	concrete and steel
TA-15-17	15-004(k)	H/instrument chamber	1948	
TA-15-74	15-004(l)	B/x-unit chamber	1944-?	4' x 8' x 2'/concrete
TA-15-27	15-004(m)	E/control chamber	1947-?	14' x 40' x 9'/wood
TA-15-9	15-004(n)	G/control chamber	1948-?	11' x 27' x 11'2"/concrete
TA-15-92	15-004(o)	H/camera chamber	?-1967	unknown

According to engineering records, the non-radioactively contaminated buildings associated with some of the firing areas were burned and the noncombustible residuals were placed in the canyon adjacent to TA-40-5 and TA-40-15.

WASTE INFORMATION

Extensive documentation on the quantities of waste residues in these firing areas is not publicly available, but uranium, lead, beryllium, thorium, barium, mercury, boron, cadmium, and other hazardous materials are present. More information can be obtained from classified records.

RELEASE INFORMATION

Firing Points A, B, C, and D probably left few residues. Firing Points E and F continued operating and have extensive contamination of uranium, lead and other toxic materials. Visual yellow uranium oxide residuals are present in small amounts at Firing Points G and H. Soil sampling in and near the E-F site indicated the following: 1)beryllium is present at slightly elevated levels in surface soils, but not in soluble form, 2) lead is present in levels bordering on phototoxic levels, and 3) uranium is present at the several thousand ppm level in the surface soil and is of concern as a toxic metal.

DRAFT

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A satellite storage area in Room SH27, TA-15-20 [15-005(a)], is used to store lead for the Bench Shop and Laboratory Building. A second container storage area is located in Bunker TA-15-242 [15-005(b)], the Make-Up Building. The material stored in this area is scrap HE. A third satellite storage area is located in Bunker TA-15-41 [15-005(c)].

WASTE INFORMATION

The storage area at TA-15-20 manages lead. The material stored at TA-15-242 and TA-15-41 is scrap HE.

RELEASE INFORMATION

Information of releases from these units is lacking, however, releases are unlikely because the storage areas are inside buildings.

DRAFT

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): FIRING SITE
UNIT USE: DISPOSAL/TESTING
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1960's - PRESENT

UNIT INFORMATION

Active firing sites at TA-15 include the following. 1) PHERMEX consists of chamber TA-15-184 [15-006(a)], related equipment in a building complex, and a firing pad. This facility was built in the early 1960's. 2) Ector facility [15-006(b)] was built in the early 1980's and consists of a firing pad and related structures TA-15-276 and -280. 3) The R-44 firing site control building, TA-15-44 [15-006(c)], was completed in 1951. The R-45 firing site control building, TA-15-45 [15-006(d)], was also built in 1951. The two sites, R-44 and R-45, have had heavy use. The R-45 site has undergone extensive changes including large soil disturbances in the firing area.

WASTE INFORMATION

Materials fired at the PHERMEX and Ector facilities include uranium, lead, mercury, thorium, beryllium, gallium, and other hazardous materials. Uranium and lead have been used in large quantities. Some barium-containing explosives have also been fired. Firing Areas R-44 and R-45 both have uranium, beryllium, lead, other hazardous materials, and probably tritium.

RELEASE INFORMATION

Residues of the shots are present in the soil surrounding the site. LANL staff indicated that uranium appears to be rapidly oxidizing into mobile uranium oxide. The firing pad at R-44 has been extended to the canyon. Yellow uranium oxide has been observed on the pad and in erosion channels to the canyon. It is expected that the pad at R-45 would have similar releases.

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL/TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Three inactive landfills are present at TA-15. 1) Material Disposal Area N (MDA-N) is located southeast of TA-15-23 [15-007(a)]. The area consisted of a trench that occupied an area of about 0.10 acre. The trench was used prior to 1965. 2) Material Disposal Area Z (MDA-Z) is located near the road turn-off for TA-15-233 [15-007(b)]. It consists of an open surface disposal area on a bench constructed on the side of the canyon and has been extimated to cover an area of one acre or less. It was used to dispose of PHERMEX and perhaps other waste between 1965 and the 1980's. 3) Two shafts located near the south rim of a branch of Pajarito Canyon at structure locations TA-15-264 [15-007(c)] and TA-15-265 [15-007(d)]. The shafts are 6' in diameter and 125' - 130' deep (engineering records note shaft depth as 120'). The shafts were used for experiments in 1970 and the residues remain in place. Shaft TA-15-264 was involved in an experiment involving detonation of 4,000 lbs. of TNT. There are two other shafts in the same area, however, these shafts are empty and no waste was ever placed in them.

WASTE INFORMATION

The wastes in MDA-N are reported to be remnants of several structures from TA-15 which had been exposed to explosive or chemical contamination. The wastes in MDA-Z contain sand bags and firing debris contaminanted with uranium, lead, beryllium, and potentially mercury and barium. The waste in TA-15-264 may contain lead and reaction products from TNT detonation. Shaft TA-15-265 contains a small amount of beryllium, tritium, lead and HE reaction products.

RELEASE INFORMATION

No releases from the MDA-N landfill are known to have occurred. Natural mobilization may be occuring at MDA-Z. Tritium in shaft TA-15-265 may have undergone some migration in the gaseous phase; however, much of the tritium has decayed.

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Nondesignated inactive surface disposal areas present at TA-15 include the following. 1) Some material from Firing Point E-F was reportedly dumped at the canyon edge south of the firing area [15-008(a)] between 1950's - 1970's (estimated). 2) A bench of waste material from firing area TA-15-44 [15-008(b)] was constructed adjacent to the north side of the firing site. It was used most heavily from 1950's - 1970's (estimated). 3) Residues from several experiments were disposed of in one area which consisted of several small areas near TA-15-233 [15-008(c)], west of TA-15-233 and south of the road. 4) Building debris is disposed of in a small area to the south of TA-15-22 [15-008(d)].

WASTE INFORMATION

The wastes contained in the Firing Point E-F, TA-15-44 and TA-15-233, may include uranium, lead, beryllium, barium, and with the exception of TA-15-233, tritium. Metal scraps and plastic chunks have been observed at the TA-15-44 disposal area. The area south of TA-15-22 appears to contain only rubble; however, extensive monitoring or sampling has not taken place.

RELEASE INFORMATION

Dispersion and migration of yellow uranium oxide has been observed at several of the surface disposal sites. It is expected that other non-visible contaminants are similarly moving in the soil surrounding the contaminated sites.

DRAFT

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Active septic systems at TA-15 include:

STRUCTURE	SWMU NO.	BUILT	CAPACITY/CONSTRUCTION	OVERFLOW	BUILDING SERVED
TA-15-51	15-009(a)	1949	505 gallons, reinforced concrete	seepage pit	TA-15-20
TA-15-61	15-009(b)	1951	540 gallons	seepage pit	TA-15-45
TA-15-62	15-009(c)	1951	540 gallons	drain line	TA-15-44
TA-15-63	15-009(d)	1951	2,060 gallons	seepage pit	TA-15-40
TA-15-72	15-009(e)	1947	1,200 gallons (3' x 4' x 5' deep, reinforced concrete)	drain line	TA-15-27
TA-15-195	15-009(f)	1961	1,280 gallons	seepage pit	TA-15-183
TA-15-205	15-009(g)	1961	605 gallons	leach field	PHERMEX facility
TA-15-282	15-009(h)	late 1970's	975 gallons, 6'x 4'x 5' deep	leach field	ECTOR facility
TA-15-284	15-009(i)	1979	750 gallons, 7'x 4'x 5' deep	seepage pit	TA-15-233
TA-15-286	15-009(j)	1981	1,500 gallons	seepage pit	TA-15-285
TA-15-293	15-009(k)	1982	8'x 10', tank	seepage pit	TA-15-285

Septic tank TA-15-72 is presently semi-active. There is conflicting data on tanks TA-15-293 and TA-15-286 and they are probably the same tank. A field survey noted the tank marked as TA-15-293. TA-15-195 was recently removed and a 2000 gallon tank installed.

WASTE INFORMATION

Tanks TA-15-61, -62, -72, -282 receive primarily sanitary waste. It is unknown whether hazardous constituents have been discharged to these tanks. Tank TA-15-51 serves an assembly shop. It was sampled for HE in 1981 and none was detected; other chemicals were not analyzed for. Tank TA-15-63 serves an office and may have received photo processing waste. Tank TA-15-195 serves a laboratory and office building; this tank had required pumping due to scum development which might have indicated the presence of chemicals. Tank TA-15-205 serves the PHERMEX complex and could possibly receive mixed waste; however, LANL staff consider this unlikely. More information is needed for tanks TA-15-284, which serves the Betatron Building, and TA-15-286 and -293, which serve the confinement and test facility. Recently TA-15-62 and -195 were sampled and no volatiles were detected.

RELEASE INFORMATION

The tanks generally overflow to seepage pits; the extent of contamination surrounding the pits, if any, is unknown.

15-010 INACTIVE SEPTIC SYSTEM

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Septic tank TA-15-80 [15-010(a)] was built in 1944 of reinforced concrete. The dimensions of the tank were 3' x 5' x 4' deep. Overflow from the tank probably went to a seepage pit or similar unit. It was abandoned in 1961. Septic tank TA-15-147 [15-010(b)] served Building TA-15-8, a shop building. The tank was built in 1947. In a 1972 survey, this tank was noted to have possible HE contamination. The tank was used between the 1940's and 1950's. There is conflicting data on this tank. Some engineering records indicate it was a 5' x 5' x 5'6" reinforced concrete industrial waste settling tank. Other records indicate it was a septic tank. However, since HE machining took place in the shop, it would be expected that TA-15-147 may have been used as an HE sump. The CEARP describes a sanitary sewer which served the camera firing point, Building TA-15-92 [15-010(c)]. The sewer drained to a seepage field or an outfall at the edge of the canyon. It is not known whether the sewer line has been removed.

WASTE INFORMATION

Tank TA-15-80 served some of the early facilities, the type of waste that was handled by this tank is unavailable. Tank TA-15-147 may have HE contamination. The composition of the materials in the TA-15-92 sewer line is not available.

RELEASE INFORMATION

Location of overflow, possible contaminants, and releases from these units are unavailable.

15-011 SUMPS, DRY WELL

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

1) A sump was located on the west side of TA-15-20 [15-011(a)]. The sump was constructed in 1949 and is believed to have been used into the 1950's. The sump was 6' x 3' x 2'4" deep. Its current status is unknown. 2) A dry well [15-011(b)] is located west of TA-15-194, near the edge of the canyon. The well is 4' in diameter, 50' deep and it was used to dispose of liquids from TA-15-194. The well is covered with soil and is difficult to locate. The well was constructed in 1978; when it was put out of service is unknown. 3) A sump may have been located at the edge of the canyon [15-011(c)] and received acid waste from drains in Building TA-15-50. This sump may have been used in the 1960's. There is conflicting data as to whether there was a sump that received these wastes or whether they discharged directly to the canyon.

WASTE INFORMATION

The sump near TA-15-20 handled waste liquid that possibly contained HE. The dry well received liquids from industrial lines that probably contained degreaser solutions, sulfuric and hydrochloric acid, and chromate solutions. The sump for TA-15-50, if it received any waste, would have handled acid waste and perhaps other industrial waste.

RELEASE INFORMATION

The decant from sump near TA-15-20 is believed to have gone to manhole TA-15-150 and then to an outfall. Release information from the dry well is lacking. Available information suggests that the sump for TA-15-50 may have discharged into the canyon.

SUMMARY

LOCATION: TA-15
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

The RFA notes a vacuum pump oil disposal area [15-012(a)]. A location is not given. In addition, inactive outfalls at TA-15 may have contributed as operational releases. These may include outfalls from TA-15-92 (now removed), -20, -194, -50, -203, and -40 [15-012(b), (c), (d), (e), (f), and (g)]. Additional information is lacking.

WASTE INFORMATION

The pump oil disposal area is suspected to contain mercury and tritium. Wastes from outfalls may have included degreaser solutions, spent photo solutions, other chemicals, and perhaps sanitary waste.

RELEASE INFORMATION

Lateral and vertical extent of any contamination is unknown. Releases from the outfalls would have been to their receiving canyons. Whether hazardous materials have been discharged is unknown.

DRAFT

TA-15 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
15-001	15-1
15-002	15-1
15-003	15-1
15-004(a)	Not shown, location unknown
15-004(b)	Not shown, location unknown
15-004(c)	15-2
15-004(d)	15-2
15-004(e)	15-2
15-004(f)	15-2
15-004(g)	15-2
15-004(h)	15-2
15-004(i)	15-2
15-004(j)	15-2
15-004(k)	15-2
15-004(l)	15-1
15-004(m)	15-2
15-004(n)	15-1
15-004(o)	15-2
15-005(a)	15-1
15-005(b)	15-1
15-005(c)	15-1
15-005(d)	15-1
15-006(a)	15-1
15-006(b)	15-1
15-006(c)	15-1
15-006(d)	15-1, 15-2
15-007(a)	15-1, 15-3
15-007(b)	15-1, 15-4
15-007(c)	15-1
15-007(d)	15-1
15-008(a)	15-1

DRAFT

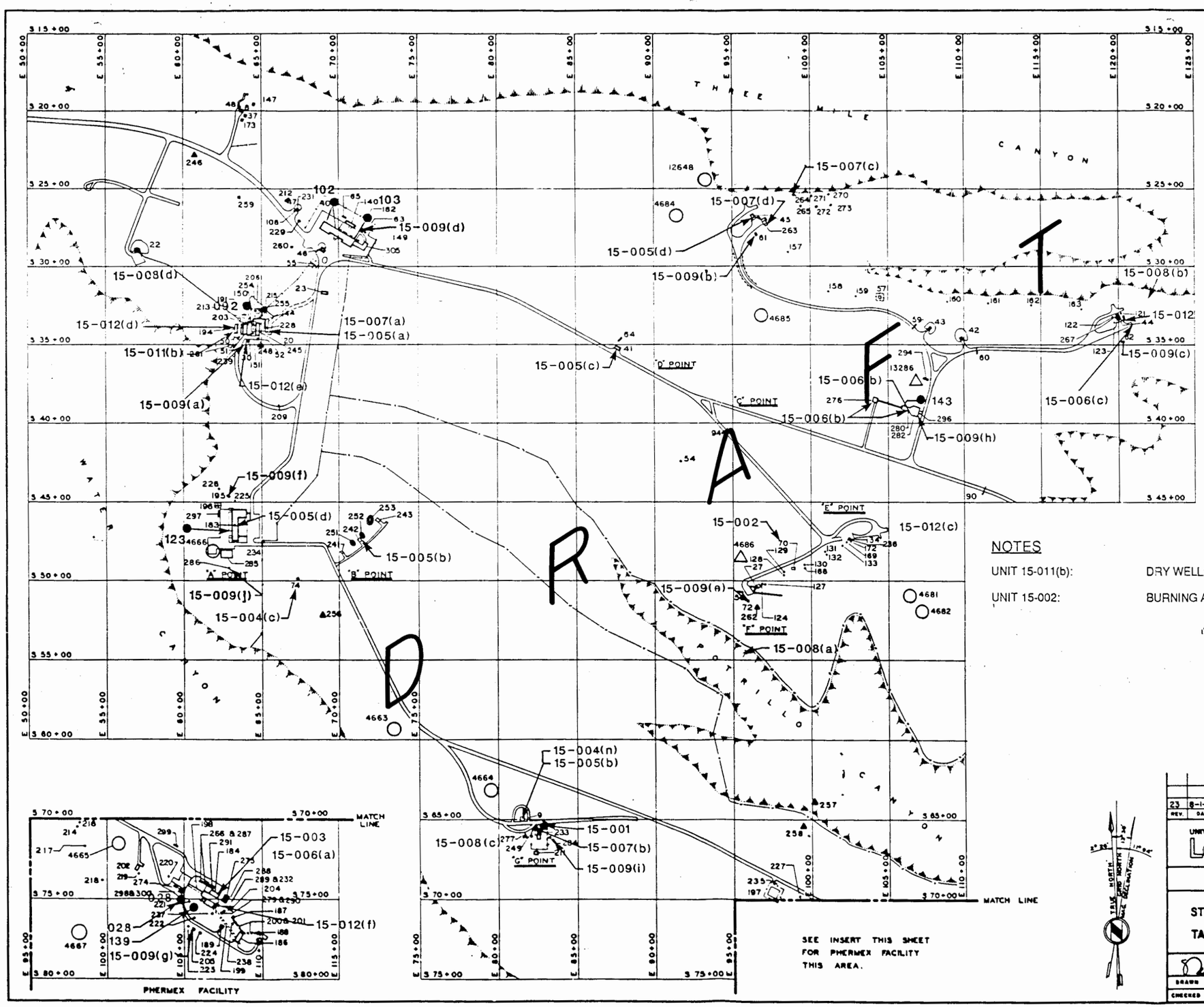
TA-15 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX (CONTINUED)

SWMU	FIGURE NUMBER
15-008(b)	15-1
15-008(c)	15-1
15-008(d)	15-1
15-009(a)	15-1
15-009(b)	15-1
15-009(c)	15-1
15-009(d)	15-1
15-009(e)	15-1
15-009(f)	15-1
15-009(g)	15-1
15-009(h)	15-1
15-009(i)	15-1
15-009(j)	15-1
15-009(k)	Not shown, location unknown
15-010(a)	15-2
15-010(b)	15-2
15-010(c)	15-2
15-011(a)	15-2
15-011(b)	15-1
15-011(c)	15-2
15-012(a)	Not shown, location unknown
15-012(b)	15-2
15-012(c)	15-2
15-012(d)	15-1
15-012(e)	15-2
15-012(f)	15-1
15-012(g)	15-2

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 02 01 B165



UNCLASSIFIED

EXPLANATION

15-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

NOTES

UNIT 15-011(b): DRY WELL; EXACT LOCATION UNAVAILABLE.

UNIT 15-002: BURNING AREA; EXACT LOCATION UNAVAILABLE.

1"=300'-0" GRAPHIC SCALE

FIGURE 15-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-15

REV.	DATE	REVISION	BY	CKD.	APP.
23	8-1-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-28-83	H.S.		

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

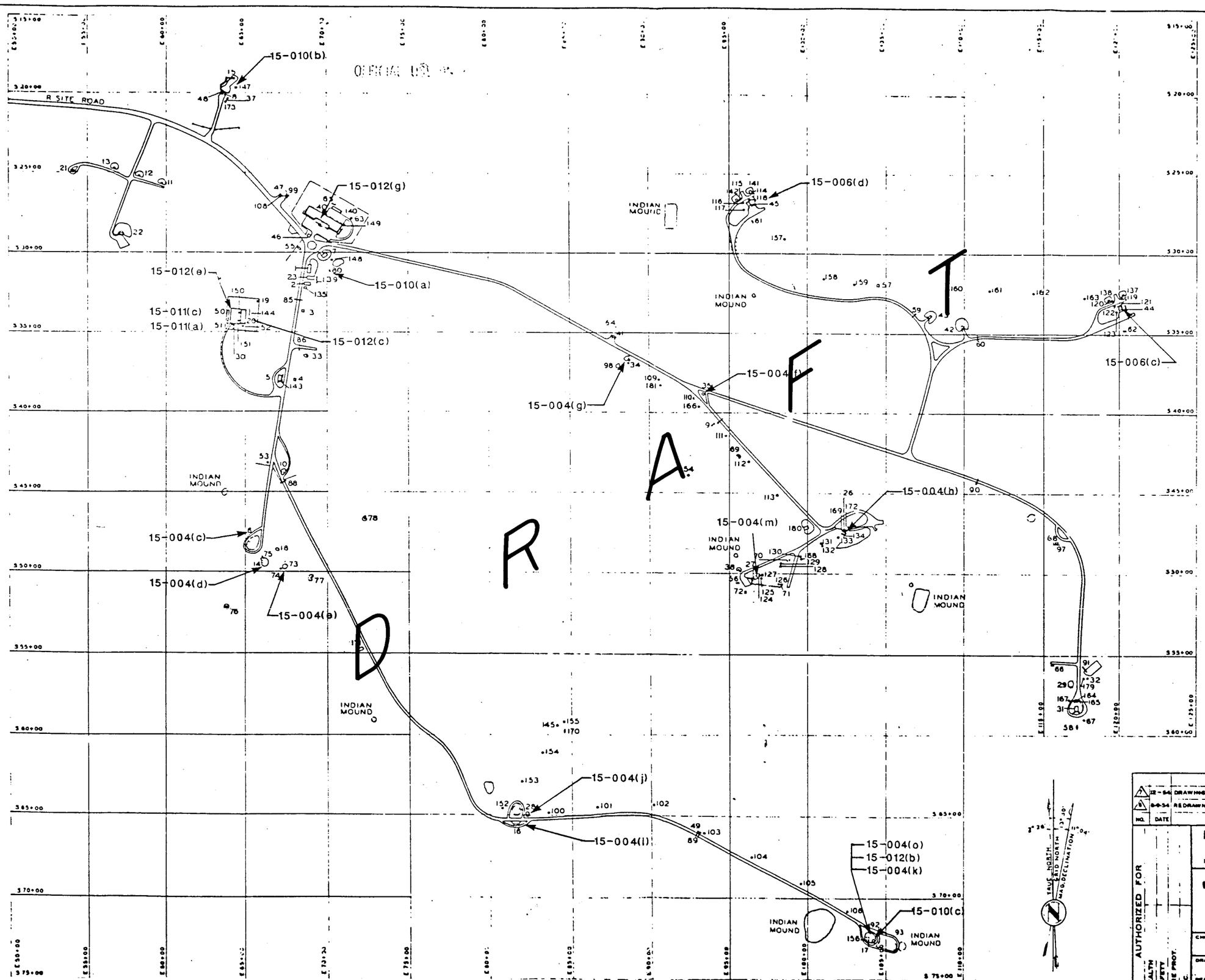
FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-15 R-SITE

SEC CLASSIFICATION: CLASS. U
REVIEWER
DATE 10-19-85

SUBMITTED: DRAWN
CHECKED
RECOMMENDED
APPROVED
DATE 8-1-83
SHEET NO. 1 of 1
DRAWING NO. ENG-R 5110

30121-02 01 B164



EXPLANATION

15-001 SWMU LOCATION

NOTES

UNIT 15-011 (a) (c):
EXACT LOCATIONS UNAVAILABLE.

UNCLASSIFIED

FIGURE 15-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-15

OFFICIAL USE ONLY

640

NO.	DATE	REVISIONS	BY	CHKD	CAP LOR
1	12-54	DRAWING NUMBER REVISED - WAS ENG-R 130	JAS		
2	8-8-54	REDRAWN TO STATUS OF 7-1-54	LCW	JAS	

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

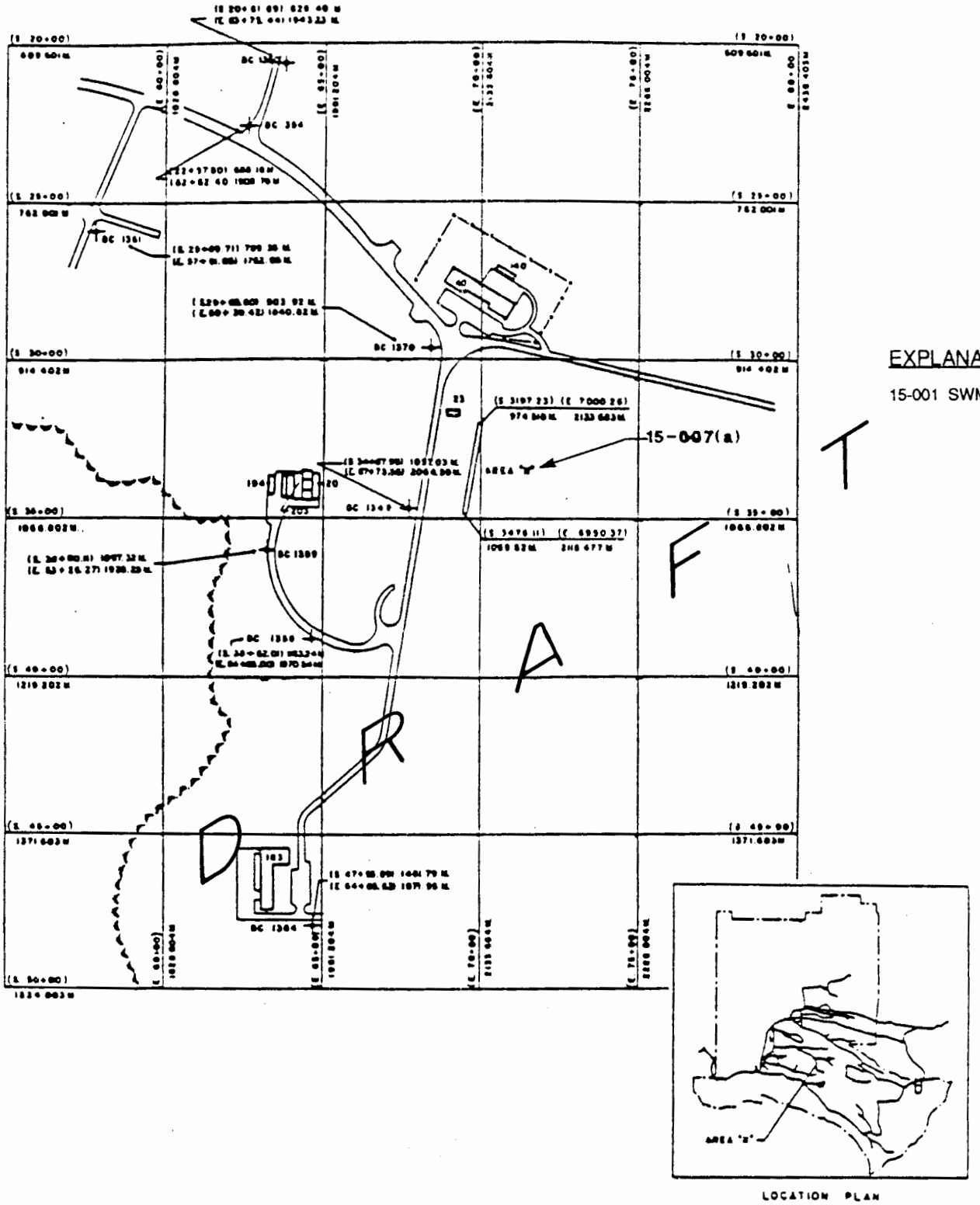
STRUCTURE LOCATION PLAN
TA-15 — R-SITE

CHECKED: ENGINEER — RECOMMENDED: GROUP LEADER — APPROVED: ENG. DIV. OFFICE

DRAWN: LC WINKS — DATE: 7-7-54 — SHEET — DRAWING NO. ENG-R 131

AUTHORIZED FOR HEALTH SAFETY PROT.

301215 02 01 A17



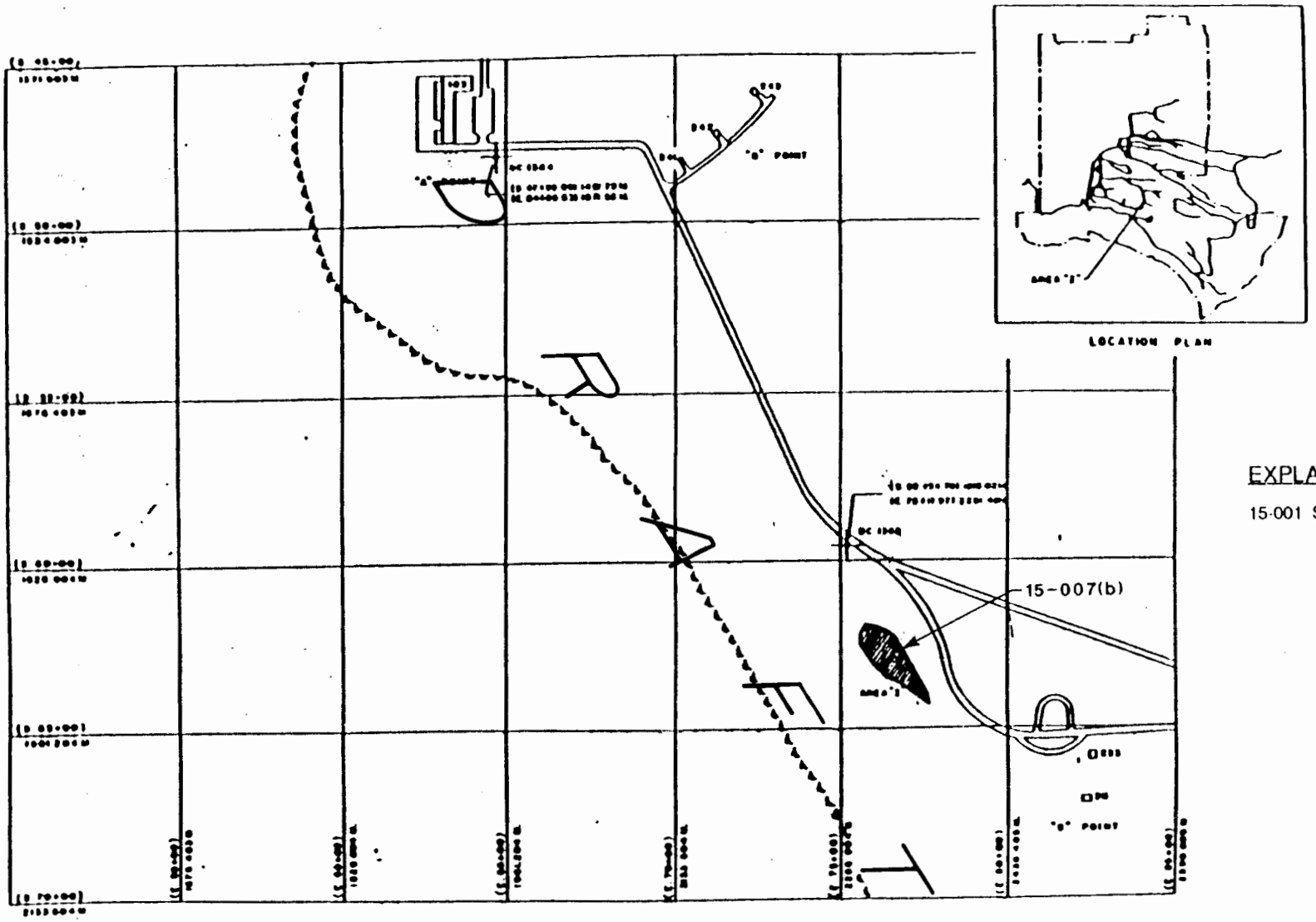
EXPLANATION

15-001 SWMU LOCATION

UNCLASSIFIED

FIGURE 15-3

MATERIAL DISPOSAL AREA N, TA-15



EXPLANATION

15-001 SWMU LOCATION

FIGURE 15-4

MATERIAL DISPOSAL AREA Z, TA-15

UNCLASSIFIED

301215 01 B120

STRUCTURE NUMBER	DESIG-NATION	REMARKS
TA-15-1	R-1	LABORATORY & SHOP
TA-15-2	R-2	WAREHOUSE
TA-15-3	R-3	STORAGE BUILDING
TA-15-4	R-4	STORAGE BUILDING
TA-15-5	R-5	TRIMMING BUILDING
TA-15-6	R-6	CONTROL CHAMBER FIRING POINT 'A'
TA-15-7	R-7	OFFICE & DARK ROOM
TA-15-8	R-8	CUTTING BUILDING
TA-15-9	R-9	CONTROL CHAMBER FIRING POINT 'G'
TA-15-10	R-10	DETONATOR MAGAZINE
TA-15-11	R-11	MAGAZINE
TA-15-12	R-12	MAGAZINE
TA-15-13	R-13	MAGAZINE
TA-15-14	R-14	X-UNIT CHAMBER FIRING POINT 'A'
TA-15-15	R-15	CONTROL ROOM FOR BUILDING R-8
TA-15-16	R-16	BARRICADE FIRING POINT 'G'
TA-15-17	R-17	INSTRUMENT CHAMBER FIRING POINT 'H'
TA-15-18	R-18	MAGAZINE FIRING POINT 'A'
TA-15-19	R-19	GUARD TOWER 'A' AT ASSEMBLY BLDG.
TA-15-20	R-20	ASSEMBLY BUILDING
TA-15-21	R-21	MAGAZINE
TA-15-22	R-22	MAGAZINE
TA-15-23	R-23	GMX MANOR
TA-15-24	R-24	STORAGE (REMOVED)
TA-15-25	R-25	WATER TANK (REMOVED)
TA-15-26	R-26	X-UNIT CHAMBER FIRING POINT 'E'
TA-15-27	R-27	CONTROL BUILDING FIRING POINT 'E' & 'F'
TA-15-28	R-28	X-UNIT CHAMBER FIRING POINT 'G'
TA-15-29	R-29	X-UNIT CHAMBER FIRING POINT 'I'
TA-15-30	R-30	GUARD STATION AT ASSEMBLY BLDG.
TA-15-31	R-31	CONTROL BUILDING FIRING POINT 'I' & 'J'
TA-15-32	R-32	X-UNIT CHAMBER FIRING POINT 'J'
TA-15-33	R-33	RADIOACTIVE SOURCE BUILDING
TA-15-34	R-34	CONTROL CHAMBER FIRING POINT 'D' (ABANDONED)
TA-15-35	R-35	CONTROL CHAMBER FIRING POINT 'C' (ABANDONED)
TA-15-36	R-36	X-UNIT CHAMBER (REMOVED)
TA-15-37	R-37	AIR COMPRESSOR BUILDING FOR BLDG. R-8
TA-15-38	R-38	MAGAZINE
TA-15-39	R-39	ROAD BLOCK (REMOVED)
TA-15-40	R-40	OFFICE BUILDING
TA-15-41	R-41	STORAGE BUILDING
TA-15-42	R-42	MAGAZINE
TA-15-43	R-43	MAGAZINE
TA-15-44	R-44	CONTROL BUILDING
TA-15-45	R-45	CONTROL BUILDING
TA-15-46	R-46	GUARD HOUSE (STATION 530)
TA-15-47	R-47	WATER TOWER
TA-15-48	R-48	BUTANE TANK
TA-15-49	R-49	ROAD BLOCK
TA-15-50	R-50	STORAGE SHELTER
TA-15-51	R-51	SEPTIC TANK
TA-15-52	R-52	UNDERGROUND TANK
TA-15-53	R-53	SIREN POLE
TA-15-54	R-54	SIREN POLE
TA-15-55	R-55	TRANSFORMER STATION
TA-15-56	R-56	TRANSFORMER STATION
TA-15-57	R-57	TRANSFORMER STATION
TA-15-58	R-58	TRANSFORMER STATION
TA-15-59	R-59	WIGWAG
TA-15-60	R-60	WIGWAG
TA-15-61	R-61	SEPTIC TANK
TA-15-62	R-62	SEPTIC TANK
TA-15-63	R-63	SEPTIC TANK
TA-15-64	R-64	TRANSFORMER STATION
TA-15-65	R-65	TRANSFORMER STATION
TA-15-66	R-66	WATER TANK
TA-15-67	R-67	SEPTIC TANK
TA-15-68	R-68	DAY MAGAZINE
TA-15-69	R-69	CAP MAGAZINE
TA-15-70	R-70	WATER TANK
TA-15-71	R-71	PLATE BARRICADE
TA-15-72	R-72	SEPTIC TANK
TA-15-73	R-73	PLATE BARRICADE FIRING POINT 'B' (ABANDONED)
TA-15-74	R-74	X-UNIT CHAMBER FIRING POINT 'B' (ABANDONED)
TA-15-75	R-75	ELECTRIC MANHOLE FIRING POINT 'A'
TA-15-76	R-76	PERSONNEL SHELTER FIRING POINT 'A'
TA-15-77	R-77	PERSONNEL SHELTER FIRING POINT 'A'
TA-15-78	R-78	PERSONNEL SHELTER FIRING POINT 'A'
TA-15-79	R-79	UNDERGROUND TANK (REMOVED)
TA-15-80	R-80	SEPTIC TANK
TA-15-81	R-81	GUARD BLDG. (REMOVED) NOW 16-1000 AT TA-16
TA-15-82	R-82	TELEPHONE BOOTH
TA-15-83	R-83	ROAD BLOCK
TA-15-84	R-84	ROAD BLOCK (REMOVED)
TA-15-85	R-85	ROAD BLOCK
TA-15-86	R-86	ROAD BLOCK
TA-15-87	R-87	ROAD BLOCK (REMOVED) NOW HP-109, TA-33
TA-15-88	R-88	ROAD BLOCK
TA-15-89	R-89	ROAD BLOCK
TA-15-90	R-90	WIGWAG
TA-15-91	R-91	BARRICADE
TA-15-92	R-92	CAMERA CHAMBER FIRING POINT 'H'
TA-15-93	R-93	BARRICADE FIRING POINT 'H'
TA-15-94	R-94	WIGWAG
TA-15-95	R-95	MAGAZINE (CANCELLED)
TA-15-96	R-96	BARRICADE (REMOVED)
TA-15-97	R-97	BARRICADE
TA-15-98	R-98	CONTROL CHAMBER
TA-15-99	R-99	PROPANE TANK
TA-15-100	R-100	MANHOLE (ELECTRICAL)
TA-15-101	R-101	MANHOLE (ELECTRICAL)
TA-15-102	R-102	MANHOLE (ELECTRICAL)
TA-15-103	R-103	MANHOLE (ELECTRICAL)
TA-15-104	R-104	MANHOLE (ELECTRICAL)
TA-15-105	R-105	MANHOLE (ELECTRICAL)
TA-15-106	R-106	MANHOLE (ELECTRICAL)
TA-15-107	R-107	STORAGE BUILDING (REMOVED) NOW KAPPA-44, TA-16
TA-15-108	R-108	PUMP PIT (MANHOLE)
TA-15-109	R-109	MANHOLE (ELECTRICAL)
TA-15-110	R-110	MANHOLE (ELECTRICAL)
TA-15-111	R-111	MANHOLE (ELECTRICAL)
TA-15-112	R-112	MANHOLE (ELECTRICAL)
TA-15-113	R-113	MANHOLE (ELECTRICAL)
TA-15-114	R-114	MANHOLE (ELECTRICAL)
TA-15-115	R-115	MANHOLE (ELECTRICAL)
TA-15-116	R-116	MANHOLE (ELECTRICAL)
TA-15-117	R-117	MANHOLE (SEWER)
TA-15-118	R-118	MANHOLE (ELECTRICAL)
TA-15-119	R-119	MANHOLE (ELECTRICAL)

STRUCTURE NUMBER	DESIG-NATION	REMARKS
TA-15-122	R-122	MANHOLE (ELECTRICAL)
TA-15-123	R-123	MANHOLE (SEWER)
TA-15-124	R-124	MANHOLE (ELECTRICAL)
TA-15-125	R-125	MANHOLE (ELECTRICAL)
TA-15-126	R-126	MANHOLE (ELECTRICAL)
TA-15-127	R-127	MANHOLE (ELECTRICAL)
TA-15-128	R-128	MANHOLE (ELECTRICAL)
TA-15-129	R-129	MANHOLE (ELECTRICAL)
TA-15-130	R-130	MANHOLE (ELECTRICAL)
TA-15-131	R-131	MANHOLE (ELECTRICAL)
TA-15-132	R-132	MANHOLE (ELECTRICAL)
TA-15-133	R-133	MANHOLE (ELECTRICAL)
TA-15-134	R-134	BARRICADE, X-UNIT
TA-15-135	R-135	STORAGE BUILDING
TA-15-136	R-136	SHOP BUILDING (REMOVED) NOW KAPPA-45 AT TA-36
TA-15-137	R-137	BARRICADE
TA-15-138	R-138	BARRICADE
TA-15-139	R-139	BARRICADE
TA-15-140	R-140	STORAGE BUILDING
TA-15-141	R-141	BARRICADE
TA-15-142	R-142	BARRICADE
TA-15-143	R-143	BARRICADE
TA-15-144	R-144	RETAINING WALL
TA-15-145	R-145	SIREN POLE
TA-15-146	R-146	WIGWAG (REMOVED)
TA-15-147	R-147	SEPTIC TANK
TA-15-148	R-148	MANHOLE (ELECTRICAL)
TA-15-149	R-149	MANHOLE (SEWER)
TA-15-150	R-150	MANHOLE (SEWER)
TA-15-151	R-151	MANHOLE (SEWER)
TA-15-152	R-152	MANHOLE (ELECTRICAL)
TA-15-153	R-153	MANHOLE (ELECTRICAL)
TA-15-154	R-154	MANHOLE (ELECTRICAL)
TA-15-155	R-155	MANHOLE (ELECTRICAL)
TA-15-156	R-156	MANHOLE (ELECTRICAL)
TA-15-157	R-157	MANHOLE (ELECTRICAL)
TA-15-158	R-158	MANHOLE (ELECTRICAL)
TA-15-159	R-159	MANHOLE (ELECTRICAL)
TA-15-160	R-160	MANHOLE (ELECTRICAL)
TA-15-161	R-161	MANHOLE (ELECTRICAL)
TA-15-162	R-162	MANHOLE (ELECTRICAL)
TA-15-163	R-163	MANHOLE (ELECTRICAL)
TA-15-164	R-164	MANHOLE (ELECTRICAL)
TA-15-165	R-165	MANHOLE (ELECTRICAL)
TA-15-166	R-166	MANHOLE (ELECTRICAL)
TA-15-167	R-167	MANHOLE (ELECTRICAL)
TA-15-168	R-168	MANHOLE (ELECTRICAL)
TA-15-169	R-169	MANHOLE (ELECTRICAL)
TA-15-170	R-170	TRANSFORMER STATION
TA-15-171	R-171	PERSONNEL SHELTER
TA-15-172	R-172	BARRICADE, X-UNIT
TA-15-173	R-173	UNDERGROUND TANK
TA-15-174	R-174	BARRICADE (REMOVED)
TA-15-175	R-175	EQUIPMENT PLATFORM (REMOVED)
TA-15-176	R-176	FIRING PLATFORM
TA-15-177	R-177	FIRING PLATFORM (REMOVED)
TA-15-178	R-178	BARRICADE (REMOVED)
TA-15-179	R-179	MANHOLE (ELECTRICAL)
TA-15-180	R-180	EXPERIMENTAL CONCRETE SLAB
TA-15-181	R-181	MANHOLE (ELECTRICAL)

D R A F T

UNCLASSIFIED

FIGURE 15-5

TA-15 STRUCTURE LOCATION INDEX

OFFICIAL USE ONLY

640

NO.	DATE	REVISIONS	BY	CHKD	CHF. ENG.	ENG.
6	8-9-54	REDRAWN TO STATUS OF 7-1-54	L.C.W.	JAS		

AUTHORIZED FOR HEALTH SAFETY & PROT.

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

STRUCTURE LOCATION PLAN
TA-15 R-SITE

CHECKED DESIGNER | RECOMMENDED GROUP LEADER | APPROVED ENG. PERS. OFFICE

DRAWN LC WINKS | DATE 7-7-54 | DRAWING NO. ENG-R 130

301216 02 01 B128

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-15-1	R-1		REMOVED 1962	
TA-15-2	R-2		REMOVED 1967	
TA-15-3	R-3		REMOVED 1955	
TA-15-4	R-4		REMOVED 1955	
TA-15-5	R-5		REMOVED 1962	
TA-15-6	R-6		REMOVED 1959	
TA-15-7	R-7		REMOVED 1962	
TA-15-8	R-8	SHOP BUILDING		S20+00 E 65+00
TA-15-9	R-9	CONTROL CHAMBER	FIRING POINT G	S65+00 E 80+00
TA-15-10	R-10		REMOVED 1967	
TA-15-11	R-11		REMOVED 1967	
TA-15-12	R-12		REMOVED 1967	
TA-15-13	R-13		REMOVED 1967	
TA-15-14	R-14		REMOVED 1967	
TA-15-15	R-15		REMOVED 1967	
TA-15-16	R-16		REMOVED 1967	
TA-15-17	R-17		REMOVED 1967	
TA-15-18	R-18		REMOVED 1967	
TA-15-19	R-19		REMOVED 1960	
TA-15-20	R-20	BRANCH SHOP & LAB BLDG.		S35+00 E 65+00
TA-15-21	R-21		REMOVED 1967	
TA-15-22	R-22	EXPLOSIVES PREPARATION BLDG		S30+00 E 55+00
TA-15-23	R-23	LABORATORY BUILDING	FORMERLY TA-20-1	S30+00 E 70+00
TA-15-24	R-24		REMOVED 1951	
TA-15-25	R-25		REMOVED 1951	
TA-15-26	R-26		REMOVED 1952	
TA-15-27	R-27	CONTROL BUILDING	FIRING POINTS E & F	S50+00 E 95+00
TA-15-28	R-28		REMOVED 1967	
TA-15-29	R-29		REMOVED 1967	
TA-15-30	R-30	GUARD STATION		S35+00 E 65+00
TA-15-31	R-31	CONTROL BUILDING	RENUMBERED TA-36-55	
TA-15-32	R-32		REMOVED 1967	
TA-15-33	R-33		REMOVED 1967	
TA-15-34	R-34		REMOVED 1967	
TA-15-35	R-35		REMOVED 1967	
TA-15-36	R-36		REMOVED 1954	
TA-15-37	R-37	AIR COMPRESSOR BUILDING		S20+00 E 65+00
TA-15-38	R-38		REMOVED 1967	
TA-15-39	R-39		REMOVED 1951	
TA-15-40	R-40	OFFICE BUILDING		S30+00 E 70+00
TA-15-41	R-41	STORAGE BUILDING		S35+00 E 90+00
TA-15-42	R-42	MAGAZINE		S35+00 E110+00
TA-15-43	R-43	MAGAZINE		S35+00 E110+00
TA-15-44	R-44	CONTROL BUILDING		S35+00 E120+00
TA-15-45	R-45	CONTROL BUILDING		S25+00 E 95+00
TA-15-46	R-46	LABORATORY BUILDING		S30+00 E 70+00
TA-15-47	R-47	WATER TOWER		S25+00 E 65+00
TA-15-48	R-48	TANK, FUEL U. G.		S20+00 E 65+00
TA-15-49	R-49		REMOVED 1959	
TA-15-50	R-50	SHOP & LABORATORY BLDG.		S35+00 E 65+00
TA-15-51	R-51	TANK, SEPTIC		S35+00 E 65+00
TA-15-52	R-52	TANK, FUEL U.G		S35+00 E 65+00
TA-15-53	R-53		REMOVED 1959	
TA-15-54	R-54	TRANSFORMER STATION		S45+00 E 90+00
TA-15-55	R-55	TRANSFORMER STATION		S30+00 E 70+00
TA-15-56	R-56	TRANSFORMER STATION		S50+00 E 95+00
TA-15-57	R-57	TRANSFORMER STATION		S30+00 E105+00
TA-15-58	R-58	TRANSFORMER STATION	RENUMBERED TA-35-59	
TA-15-59	R-59	WIGWAG		S35+00 E105+00
TA-15-60	R-60	WIGWAG		S35+00 E110+00
TA-15-61	R-61	TANK, SEPTIC		S30+00 E 95+00
TA-15-62	R-62	TANK, SEPTIC		S35+00 E120+00
TA-15-63	R-63	TANK, SEPTIC		S30+00 E 70+00
TA-15-64	R-64	TRANSFORMER STATION		S35+00 E 90+00
TA-15-65	R-65	TRANSFORMER STATION		S25+00 E 70+00
TA-15-66	R-66	TANK, WATER U. G.	RENUMBERED TA-36-60	
TA-15-67	R-67	TANK, SEPTIC	RENUMBERED TA-36-61	
TA-15-68	R-68		REMOVED 1967	
TA-15-69	R-69		REMOVED 1967	
TA-15-70	R-70	TANK, WATER U.G.		S50+00 E100+00
TA-15-71	R-71		REMOVED 1967	
TA-15-72	R-72	TANK, SEPTIC		S50+00 E 95+00
TA-15-73	R-73		REMOVED 1967	
TA-15-74	R-74	FIRING UNIT CHAMBER	ABANDONED 1962	S50+00 E 65+00
TA-15-75	R-75		REMOVED 1967	
TA-15-76	R-76		REMOVED 1967	
TA-15-77	R-77		REMOVED 1967	
TA-15-78	R-78		REMOVED 1967	
TA-15-79	R-79		REMOVED 1952	
TA-15-80	R-80	TANK, SEPTIC	ABANDONED 1961	S30+00 E 70+00
TA-15-81	R-81	GUARD HOUSE	RELOCATED TO TA-16-1000	
TA-15-82	R-82		REMOVED 1965	
TA-15-83	R-83		REMOVED 1950	
TA-15-84	R-84		REMOVED 1951	
TA-15-85	R-85		REMOVED 1962	
TA-15-86	R-86		REMOVED 1958	
TA-15-87	R-87	ROAD BLOCK	RELOCATED TO TA-33-109	
TA-15-88	R-88	ROAD BLOCK	RELOCATED TO TA-33-115	
TA-15-89	R-89		REMOVED 1959	
TA-15-90	R-90	WIGWAG		S45+00 E110+00
TA-15-91	R-91		REMOVED 1967	
TA-15-92	R-92		REMOVED 1967	
TA-15-93	R-93		REMOVED 1959	
TA-15-94	R-94	WIGWAG		S40+00 E 95+00
TA-15-95	R-95		CANCELLED	
TA-15-96	R-96		REMOVED 1951	
TA-15-97	R-97		REMOVED 1967	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-15-98	R-98		REMOVED 1967	
TA-15-99	R-99	TANK, FUEL	RELOCATED TO TA-33-137	
TA-15-100	R-100		REMOVED 1967	
TA-15-101	R-101		REMOVED 1967	
TA-15-102	R-102		REMOVED 1967	
TA-15-103	R-103		REMOVED 1967	
TA-15-104	R-104		REMOVED 1967	
TA-15-105	R-105		REMOVED 1967	
TA-15-106	R-106		REMOVED 1967	
TA-15-107	R-107	STORAGE BUILDING	RELOCATED TO TA-36-44	
TA-15-108	R-108	MANHOLE, PUMP PIT		S25+00 E 65+00
TA-15-109	R-109		REMOVED 1967	
TA-15-110	R-110		REMOVED 1967	
TA-15-111	R-111		REMOVED 1967	
TA-15-112	R-112		REMOVED 1967	
TA-15-113	R-113		REMOVED 1967	
TA-15-114	R-114		DESTROYED	
TA-15-115	R-115		DESTROYED	
TA-15-116	R-116		DESTROYED	
TA-15-117	R-117		DESTROYED	
TA-15-118	R-118		DESTROYED	
TA-15-119	R-119		DESTROYED	
TA-15-120	R-120		DESTROYED	
TA-15-121	R-121	MANHOLE, ELECTRICAL		S35+00 E120+00
TA-15-122	R-122	MANHOLE, ELECTRICAL		S35+00 E120+00
TA-15-123	R-123	MANHOLE, SANITARY		S35+00 E120+00
TA-15-124	R-124	MANHOLE, ELECTRICAL		S50+00 E 95+00
TA-15-125	R-125		REMOVED 1967	
TA-15-126	R-126		REMOVED 1967	
TA-15-127	R-127	MANHOLE, ELECTRICAL		S50+00 E 95+00
TA-15-128	R-128	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-129	R-129	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-130	R-130	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-131	R-131	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-132	R-132	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-133	R-133	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-134	R-134	FIRING UNIT CHAMBER	REPLACED TA-15-26	S45+00 E100+00
TA-15-135	R-135		REMOVED 1967	
TA-15-136	R-136	SHOP BUILDING	RELOCATED TO TA-36-45	
TA-15-137	R-137		REMOVED 1967	
TA-15-138	R-138		DESTROYED	
TA-15-139	R-139		REMOVED 1965	
TA-15-140	R-140	STORAGE BUILDING		S25+00 E 70+00
TA-15-141	R-141		DESTROYED	
TA-15-142	R-142		DESTROYED	
TA-15-143	R-143		REMOVED 1962	
TA-15-144	R-144	RETAINING WALL		S35+00 E 65+00
TA-15-145	R-145		REMOVED 1959	
TA-15-146	R-146		UNASSIGNED	
TA-15-147	R-147	TANK, SEPTIC		S20+00 E 65+00
TA-15-148	R 148		REMOVED 1967	
TA-15-149	R-149	MANHOLE, SANITARY		S30+00 E 70+00
TA-15-150	R-150	MANHOLE, INDUSTRIAL WASTE		S35+00 E 65+00
TA-15-151	R-151	MANHOLE, INDUSTRIAL WASTE		S35+00 E 65+00
TA-15-152	R-152		REMOVED 1967	
TA-15-153	R-153		REMOVED 1967	
TA-15-154	R-154		REMOVED 1967	
TA-15-155	R-155		REMOVED 1967	
TA-15-156	R-156		REMOVED 1967	
TA-15-157	R-157	MANHOLE, TELEPHONE		S30+00 E100+00
TA-15-158	R-158	MANHOLE, TELEPHONE		S30+00 E100+00
TA-15-159	R-159	MANHOLE, TELEPHONE		S30+00 E105+00
TA-15-160	R-160	MANHOLE, TELEPHONE		S30+00 E110+00
TA-15-161	R-161	MANHOLE, TELEPHONE		S30+00 E110+00
TA-15-162	R-162	MANHOLE, TELEPHONE		S30+00 E115+00
TA-15-163	R-163	MANHOLE, TELEPHONE		S30+00 E115+00
TA-15-164	R-164	MANHOLE, ELECTRICAL	RENUMBERED TA-36-62	
TA-15-165	R-165	MANHOLE, ELECTRICAL	RENUMBERED TA-36-63	
TA-15-166	R-166		REMOVED 1967	
TA-15-167	R-167	MANHOLE, ELECTRICAL	RENUMBERED TA-36-64	
TA-15-168	R-168	MANHOLE, ELECTRICAL		S50+00 E100+00
TA-15-169	R-169	MANHOLE, ELECTRICAL		S45+00 E100+00
TA-15-170	R-170		REMOVED 1960	
TA-15-171	R-171		REMOVED 1959	
TA-15-172	R-172	FIRING UNIT BARRICADE		S45+00 E100+00
TA-15-173	R-173	TANK, WATER U.G.		S20+00 E 65+00
TA-15-174	R-174		REMOVED 1945	
TA-15-175	R-175		REMOVED 1945	
TA-15-176	R-176		REMOVED 1947	
TA-15-177	R-177		REMOVED 1947	
TA-15-178	R-178		REMOVED 1947	
TA-15-179	R-179		REMOVED 1967	
TA-15-180	R-180		REMOVED 1967	
TA-15-181	R-181		REMOVED 1967	
TA-15-182	R-182	SOLVENT STORAGE SHED		S30+00 E 70+00
TA-15-183	R-183	LABORATORY & OFFICE BUILDING		S45+00 E 65+00
TA-15-184	R-184	PHERMEX CHAMBER		S75+00 E105+00
TA-15-185	R-185	POWER CONTROL BUILDING		S75+00 E105+00
TA-15-186	R-186	DETECTION CHAMBER		S75+00 E110+00
TA-15-187	R-187	MANHOLE, ELECTRICAL		S75+00 E110+00
TA-15-188	R-188	MANHOLE, ELECTRICAL		S75+00 E110+00
TA-15-189	R-189	FIRING POINT SUBSTATION		S75+00 E105+00
TA-15-190	R-190		DESTROYED	
TA-15-191	R-191	SUBSTATION		S35+00 E 65+00
TA-15-192	R-192	TANK, FUEL	RELOCATED TO TA-49-56	
TA-15-193	R-193		REMOVED 1963	
TA-15-194	R-194	ELECTRON GUN BUILDING		S35+00 E 65+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-15-195	R-195	TANK, SEPTIC		S45+00 E 65+00
TA-15-196	R-196	TRANSFORMER STATION		S45+00 E 65+00
TA-15-197	R-197	SUBSTATION		S70+00 E 95+00
TA-15-198	R-198	TUNNEL		S75+00 E105+00
TA-15-199	R-199	TUNNEL		S75+00 E105+00
TA-15-200	R-200	TUNNEL		S75+00 E110+00
TA-15-201	R-201	TUNNEL		S75+00 E110+00
TA-15-202	R-202	COOLING TOWER		S75+00 E100+00
TA-15-203	R-203	PHERMEX CAVITY SHELTER		S35+00 E 65+00
TA-15-204	R-204	CDU CHAMBER		S75+00 E105+00
TA-15-205	R-205	TANK, SEPTIC		S75+00 E105+00
TA-15-206	R-206	SUBSTATION	FORMERLY TA-16-578	S35+00 E 65+00
TA-15-207	R-207	GUN EMPLACEMENT	RENUMBERED TA-36-56	
TA-15-208	R-208		REMOVED 1961	
TA-15-209	R-209	ROAD BLOCK	FORMERLY TA-3-98	S40+00 E 65+00
TA-15-211	R-211	PLATFORM		S65+00 E 65+00
TA-15-212	R-212	TRANSFORMER STATION		S25+00 E 70+00
TA-15-213	R-213	PLATFORM		S35+00 E 65+00
TA-15-214	R-214	SIREN		S70+00 E100+00
TA-15-215	R-215	ROAD BLOCK	FORMERLY TA-16-212	S35+00 E 65+00
TA-15-216	R-216	MANHOLE, ELECTRICAL		S70+00 E100+00
TA-15-217	R-217	MANHOLE, ELECTRICAL		S70+00 E100+00
TA-15-218	R-218	MANHOLE, ELECTRICAL		S75+00 E100+00
TA-15-219	R-219	MANHOLE, ELECTRICAL		S75+00 E100+00
TA-15-220	R-220	MANHOLE, ELECTRICAL		S75+00 E105+00
TA-15-221	R-221	MANHOLE, ELECTRICAL		S75+00 E105+00
TA-15-222	R-222	MANHOLE, SANITARY		S75+00 E105+00
TA-15-223	R-223	MANHOLE, SANITARY		S75+00 E105+00
TA-15-224	R-224	DISTRIBUTION BOX, SANITARY		S75+00 E105+00
TA-15-225	R-225	MANHOLE, SANITARY		S45+00 E 65+00
TA-15-226	R-226	DISTRIBUTION BOX, SANITARY		S45+00 E 65+00
TA-15-227	R-227	MANHOLE, WATER		S70+00 E100+00
TA-15-228	R-228	MOTOR GENERATOR PAD		S35+00 E 65+00
TA-15-229	R-229	MANHOLE, WATER		S30+00 E 65+00
TA-15-230	R-230		DESTROYED	
TA-15-231	R-231	RADIO STATION		S25+00 E 65+00
TA-15-232	R-232	GAS CHAMBER		S75+00 E105+00
TA-15-233	R-233	BETATRON BUILDING	REPLACES R-193	S65+00 E 85+00
TA-15-234	R-234	ROAD BLOCK		S50+00 E 65+00
TA-15-235	R-235	SIREN CONTROL PANEL		S70+00 E100+00
TA-15-236	R-236	BARRICADE		S50+00 E100+00
TA-15-237	R-237	MONITOR CONDUIT PAD		S75+00 E105+00
TA-15-238	R-238	MONITOR CONDUIT PAD		S75+00 E110+00
TA-15-239	R-239	PASSAGEWAY		S35+00 E 65+00
TA-15-241	R-241	READY MAGAZINE		S50+00 E70+00
TA-15-242	R-242	MAKE UP BUILDING		S45+00 E70+00
TA-15-243	R-243	MAIN MAGAZINE		S45+00 E70+00
TA-15-245	R-245	PASSAGEWAY		S35+00 E65+00
TA-15-246	R-246	TRANSFORMER STATION		S25+00 E60+00
TA-15-247	R-247	TRANSFORMER STATION	RENUMBERED TA-0-472	
TA-15-248	R-248	TRANSFORMER STATION		S35+00 E65+00
TA-15-249	R-249	TRANSFORMER STATION		S65+00 E80+00
TA-15-250	R-250	EXTERNAL SHOT ALIGNMENT MOUNT		S75+00 E110+00
TA-15-251	R-251	BARRICADE		S50+00 E70+00
TA-15-252	R-252	BARRICADE		S45+00 E70+00
TA-15-253	R-253	BARRICADE		S45+00 E70+00
TA-15-254	R-254	VOLTAGE REGULATOR STATION		S35+00 E65+00
TA-15-255	R-255	RETAINING WALL		S35+00 E65+00
TA-15-256	R-256	TRANSFORMER STATION		S50+00 E70+00
TA-15-257	R-257	TRANSFORMER STATION		S65+00 E100+00
TA-15-258	R-258	CAPACITOR STATION		S65+00 E100+00
TA-15-259	R-259	METERING STATION		S25+00 E 65+00
TA-15-260	R-260	METERING STATION		S30+00 E 65+00
TA-15-261	R-261	TANK, OIL STORAGE		S35+00 E 65+00
TA-15-262	R-262	TRANSFORMER STATION		S50+00 E 95+00
TA-15-263	R-263	LABORATORY BLDG.		S25+00 E 95+00
TA-15-264	R-264	TEST HOLE		S25+00 E100+00
TA-15-265	R-265	TEST HOLE		S25+00 E100+00
TA-15-266	R-266	TANK, STORAGE U. G.		S75+00 E105+00

FIGURE 15-6
TA-15 STRUCTURE LOCATION INDEX
(1 OF 2)

REV.	DATE	REVISION	BY	CKD	APP
18	9-19-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-83	HS	[illegible]	[illegible]

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-15 R-SITE

SEC CLASSIFICATION — CLASS. U — REVIEWER [signature] — DATE 10-14-83

SUBMITTED [signature] — RECOMMENDED [signature] — APPROVED [signature]

DRAWN [signature] — CHECKED [signature] — DATE 9-19-83 — SHEET NO. 1 OF 3 — DRAWING NO. ENG-R 5110

UNCLASSIFIED

301215 02 01 B129

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-15-267	R-267	MANHOLE, ELECTRICAL		S35+00 E120+00
TA-15-268	R-268	TRANSFORMER STATION	NOT SHOWN	
TA-15-269	R-269		CANCELLED	
TA-15-270	R-270	TEST HOLE		S25+00 E100+00
TA-15-271	R-271	TEST HOLE		S25+00 E100+00
TA-15-272	R-272	TEST HOLE		S25+00 E100+00
TA-15-273	R-273	TEST HOLE		S25+00 E100+00
TA-15-274	R-274	TANK		S75+00 E105+00
TA-15-275	R-275	CONTAINMENT VESSEL	"JUMBO"	S75+00 E110+00
TA-15-276	R-276	FIRING POINT CHAMBER		S40+00 E105+00
TA-15-277	R-277	TRANSFORMER STATION		S65+00 E80+00
TA-15-278	R-278	TRANSFORMER STATION		S60+00 E120+00
TA-15-279	R-279	CABLE TERMINAL BOX AND CONDUIT RUNS		S75+00 E110+00
TA-15-280	R-280	CONTROL BLDG.		S40+00 E105+00
TA-15-281	R-281	BARRICADE	NOT SHOWN	
TA-15-282	R-282	TANK, SEPTIC		S40+00 E105+00
TA-15-283	R-283		CANCELLED	
TA-15-284	R-284	TANK, SEPTIC		S65+00 E85+00
TA-15-285	R-285	CONFINEMENT & TEST FAC.		S50+00 E60+00
TA-15-286	R-286	TANK, SEPTIC		S50+00 E60+00
TA-15-287	R-287	TANK, STORAGE U.G.		S75+00 E105+00
TA-15-288	R-288	"JUMBO" CONC. PAD		S75+00 E110+00
TA-15-289	R-289	CAMERA BUNKER		S75+00 E110+00
TA-15-290	R-290	SIGNAL CHAMBER		S75+00 E110+00
TA-15-291	R-291	TANK, FUEL 15,000 GAL.		S75+00 E105+00
TA-15-292	R-292	TRANSFORMER STATION	NOT SHOWN	
TA-15-293	R-293		CANCELLED	
TA-15-294	R-294	PUMP SHED		S40+00 E105+00
TA-15-295	R-295	GATE	NOT SHOWN	
TA-15-296	R-296	TRANSFORMER STATION		S40+00 E105+00
TA-15-297	R-297	TRAILER, SHOP	FORMERLY TA-0-307	S45+00 E50+00
TA-15-298	R-298	TRAILER, STORAGE	FORMERLY TA-0-522	S70+00 E105+00
TA-15-299	R-299	TRAILER, STORAGE	FORMERLY TA-0-543	S75+00 E105+00
TA-15-300	R-300	TRAILER, LABORATORY	FORMERLY TA-0-544	S75+00 E105+00
TA-15-305	R-305	TRANSPORTABLE OFFICE BLDG	FORMERLY TA-0-1200	S30+00 E70+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

UNCLASSIFIED

FIGURE 15-6
TA-15 STRUCTURE LOCATION INDEX
(2 OF 2)

REV.	DATE	REVISION	BY	CKD	APP
6	9-16-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-25-83	HS		

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Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-15 R-SITE

SEC CLASSIFICATION
CLASS. U
REVIEWER
DATE 10-19-83

SUBMITTED
RECOMMENDED
APPROVED
DRAWN
CHECKED
DATE 9 16 83
SHEET NO. 2 of 3
DRAWING NO. ENG-R 5110

TA-16

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 16 operations center around the production of high explosives for weapons and non-weapons research and development. TA-16 is a large complex divided into separate operational units, connected by roads, and a total of over 200 buildings and structures. Operations include explosive pressing, assembly, casting, coating, machining, development of new materials, and non-destructive testing. Storage is available in the area, and administration and shop facilities are included at TA-16.

TA-16 lies at elevations between about 7,400 and 7,680 feet asl. It is located on a broad mesa which is bounded on the north by Canon de Valle and on the south by Water Canyon. The mesa also slopes eastward toward branches of Water Canyon and Canon de Valle. Canyon walls are steep in this area. TA-16 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone.

Several soil series are present at TA-16. The Tocal very fine sandy loam series are shallow to very shallow (20 to 50 cm), well-drained soils that form on tuff on gentle to moderate slopes. The permeability is moderately slow (0.5 to 1.6 cm/h), and the available water-holding capacity is low. Runoff is medium (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute precipitation event on bare soil), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr, the potential soil loss from an unprotected surface). The Frijoles very fine sandy loam is a deep (152 cm), well-drained soil with moderately slow permeability (0.5 to 1.6 cm/h) in the upper 45 cm and very rapid (>50 cm/h) below. Runoff is slow to medium (0.14 to 0.51 cm) and the erosion hazard is moderate (0.65 to 1.8 cm/yr). The Carjo loam is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr). Clayey-skeletal typic eutroboralfs are deep (120 cm or more), well-drained soils formed in gravelly fan material. They occur on nearly level to moderately sloping mesas and usually include other soil series in small proportions. Permeability is slow

(0.15 to 0.50 cm/h), the available water-holding capacity is low, runoff is slow to medium (0.14 to 0.51 cm) and the erosion hazard is moderate (0.65 to 1.8 cm/yr).

At TA-16, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,300 asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

16-001 DRY WELLS / TANK

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): WELL
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: EST. 1950's - ?

UNIT INFORMATION

Several dry wells and tanks were constructed for the disposal of blowdown from the steam plant and wastewater from HE operations at the 300 complex: 1) A field survey found that the blowdown from the steam plant, TA-16-540, is routed to a blowdown tank, TA-16-456 [16-001(a)]. The tank is constructed of steel and has an inside diameter of 6'. It is 7' long and has 2000 gallon capacity. After exiting the blowdown tank, the liquid goes through two dry wells [16-001(b)] which discharge to a drainage area. Tank TA-16-456 was installed in 1968 and replaced tank TA-3-541 [16-001(c)] which was installed in 1962. Tank TA-3-541 was filled with dirt and abandoned. The two dry wells are located just east of the steam plant. 2) A 1959 engineering drawing (ENG-R867) shows a 3' x 5' dry well located to the east of TA-16-208 [16-001(d)]. The wells have not been located in field surveys. 3) A dry well [16-001(e)]was constructed at the outfall area of the Building 300 series process line. The dry well was installed in nonpermeable rock and did not function properly. A "T" pipe was added which allowed liquids to discharge from this dry well to a NPDES outfall (EPA 05A05B, see Appendix A).

WASTE INFORMATION

The blowdown tank and the two dry wells received only steam plant blowdown. It is unknown whether blowdown contained chromates in the early days of operation. The waste discharged to the dry wells east of TA-16-540 and east of TA-16-208 is unknown. The liquids received by the 300 series process line may have contained solvents.

RELEASE INFORMATION

It is unknown whether any of the wells or the blowdown tank have caused a hazardous release.

16-002 TRITIUM TANK

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1988 - PRESENT

UNIT INFORMATION

An underground storage tank has been put into operation recently to receive waste from all floor drains and a sink drain in the Tritium Facility, TA-16-451. The capacity of the tank is 1500 gallons. HSE-7 will be called to empty the tank.

WASTE INFORMATION

Discharges to the tank originate from the tritium process section.

RELEASE INFORMATION

There have been no releases from the tank.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: EST.1950's - PRESENT

UNIT INFORMATION

For many years it has been the practice at TA-16 to route any industrial process water containing HE through catchment baffle-filter sumps before discharge. Open floor drains in each room also connect with these collecting sumps. The baffle-filters or settling areas have been regularly cleaned since they were put into use. The following table describes these sumps.

ACTIVE SUMPS

BUILDING	SWMU NO	DIMENSIONS	OUTFALL LOCATION
TA-16-410	16-003(a)	111"x41"x31"	EPA05A053
TA-16-400	16-003(b)	172"x41"x31"	EPA05A063
TA-16-460	16-003(c)	90"x41"x31"	EPA05A072
TA-16-300	16-003(d)	123"x41"x31"	EPA05A058
TA-16-300	16-003(d)	203"x41"x31"	EPA05A058
TA-16-302	16-003(e)	123"x41"x31"	EPA05A058
TA-16-302	16-003(e)	203"x41"x31"	EPA05A058
TA-16-304	16-003(f)	123"x41"x31"	EPA05A058
TA-16-304	16-003(f)	203"x41"x31"	EPA05A058
TA-16-306	16-003(g)	123"x41"x31"	EPA05A058
TA-16-306	16-003(g)	203"x41"x31"	EPA05A058
TA-16-280	16-003(h)	117"x41"x31"	NORTH OF BUILDING
TA-16-265	16-003(i)	76"x41"x31"	EPA05A057
TA-16-267	16-003(j)	76"x41"x31"	EPA05A057
TA-16-260	16-003(k)	90"x36"x31"	EPA05A056
TA-16-260(12)	16-003(k)	176"x36"x31"	EPA05A056
TA-16-430(2)	16-003(l)	88"x41"x31"	WEST OF BUILDING
TA-16-430	16-003(l)	11[illegible]"x41"x31"	WEST OF BUILDING
TA-16-380	16-003(m)	192"x41"x31"	EPA05A052
TA-16-342	16-003(n)	88"x41"x31"	EPA05A062
TA-16-340(3)	16-003(o)	81"x41"x31"	EPA05A062
TA-16-340(3)	16-003(o)	124"x41"x31"	EPA05A062

INACTIVE SUMPS

BUILDING	SWMU NO	DIMENSIONS	OUTFALL LOCATION
TA-16-307	16-003(p)	84"x41"x31"	EAST OF BUILDING
TA-16-307	16-003(p)	160"x41"x31"	EAST OF BUILDING
TA-16-305	16-003(q)	84"x41"x31"	NORTH OF BUILDING
TA-16-305	16-003(q)	160"x41"x31"	NORTH OF BUILDING
TA-16-303	16-003(r)	84"x41"x31"	NORTH OF BUILDING
TA-16-303	16-003(r)	160"x41"x31"	NORTH OF BUILDING
TA-16-301	16-003(s)	84"x41"x31"	NORTH OF BUILDING
TA-16-301	16-003(s)	160"x41"x31"	NORTH OF BUILDING
TA-16-360	16-003(t)	160"x41"x31"	WEST OF BUILDING
TA-16-345	16-003(u)	88"x41"x31"	WEST OF BUILDING
TA-16-450	16-003(v)	159"x41"x31"	EAST OF BUILDING

(12): number of sumps at that location; if not specified, the number is one (1).

Sumps in TA-16-304 and -306 do not currently handle HE waste. In addition, the sump in the truck washing facility, TA-16-400 receives truck washwater. It was constructed in 1952. The following HE sumps receive barium precipitation treatment:

STRUCTURE	BAY #s	# OF SUMPS
TA-16-260	22,23	1
TA-16-260	24,25	1
TA-16-300		2
TA-16-302		2

Residual HE in these sumps is removed by a vacuum system and destroyed by burning. Barium sulfate residues are filtered to collect barium. The filters are dried and buried. It is possible that other inactive or decommissioned sumps exist for which information is not available.

WASTE INFORMATION

The waste consists primarily of HE. Solvents are discharged to the following: TA-16-400, and -260. Sumps TA-16-460, -342, -340 and -300 used to discharge solvents; currently the solvents from these buildings are drummed before reaching the sumps. The entrapped HE is picked up for burning. The inactive sumps handled only HE with the exception of the 160" x 41" x 31" sump in TA-16-307 which handled HE and solvents. The sumps that receive barium precipitation treatment initially receive liquids from wash down of baratol machining operations. After pH adjustment, all barium is precipitated as insoluble barium sulfate by adding sodium sulfite to the sump solution.

RELEASE INFORMATION

The sumps have discharged hazardous waste from outfalls. All material from sumps that receive barium precipitation treatment is taken to the TA-16 burn site (16-010) for treatment. There is no decant or outfall from the sumps when barium precipitation operations take place. Known releases of acetone and methyl ethyl ketone solubles have occurred from sumps TA-16-300, -302, -304, -306, and -430. The outfalls in which residual HE is of particular concern are TA-16-200 and, to a lesser degree, TA-16-478. Some other outfalls also contain HE.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1952 - PRESENT

UNIT INFORMATION

A sanitary wastewater treatment plant is operating at TA-16. Components of the plant include:

STRUCTURE	SWMU NO.	STRUCTURE TYPE
TA-16-530	16-004(a)	Imhoff Tank
TA-16-531	16-004(b)	trickling filter
TA-16-532	16-004(c)	final tank
TA-16-533	16-004(d)	sludge drying bed
TA-16-534	16-004(e)	screen
TA-16-535	16-004(f)	sludge drying bed

WASTE INFORMATION

The waste is primarily sanitary, but the plant may receive a small amount of industrial waste.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred. The plant discharges to a NPDES outfall (see Appendix A).

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

STRUCTURE	SWMU NO.	STRUCTURE TYPE	BUILT	REMOVED	CAPACITY/CONSTRUCTION	SERVED BUILDINGS
TA-16-161	16-005(a)	septic tank	1945		11'6" x 31'6" x 9'7"	TA-16-42 thru -45
TA-16-174	16-005(b)	septic tank	1945		4' x 8' x 4'6"	
TA-16-176	16-005(c)	septic tank	1945		8' x 6' x 4'	
TA-16-177	16-005(d)	septic tank	1945	1968	10' x 6' x 4'6"	TA-16-141
TA-16-179	16-005(e)	septic tank	1948			TA-16-37
TA-16-272	16-005(f)	septic tank	1951		1500 gallons	TA-16-260
TA-16-273	16-005(g)	dosing chamber	1951			TA-16-260 through TA-16-272
TA-16-274	16-005(h)	distribution box	1951			TA-16-260 through TA-16-274
TA-16-393	16-005(i)	filter bed		1964		
TA-16-431	16-005(j)	septic tank	1952	1968		
TA-16-486	16-005(k)	septic tank	1951	1951	7' x 4' x 4'	
TA-16-504	16-005(l)	septic tank	1948		4' x 5' x 3'	
TA-16-801	16-005(m)	manhole				
TA-16-1132	16-005(n)	septic tank		1956		
TA-16-1137	16-005(o)	grease trap				
TA-16	N/A	drain lines				

Tanks TA-16-161, -174, -176, -177 were constructed of reinforced concrete. Construction details on the other tanks is lacking. In addition to these systems, engineering drawings indicate several unmarked tanks that were also decommissioned including an unmarked tank south of TA-16-515. The following buildings had drains that connected to tanks: TA-16-37, -38, -42, -43, -44, -45, -49, -50, -52, -53, and -55. It is unknown whether septic tanks TA-16-174 and TA-16-504 have been removed.

WASTE INFORMATION

The waste consisted of domestic and for some systems, industrial sewage.

RELEASE INFORMATION

Information on possible residuals in the associated drain fields is lacking.

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The following are active and inactive septic systems in TA-16:

STRUCTURE	SWMU NO	CONSTRUCTED	STATUS	TANK VOLUME	DIMENSIONS/CONSTRUCTION
TA-16-173	16-006(a)		abandoned 1971	600 gal	steel
TA-16-175	16-006(b)	1946	active	500 gal	10' x 6' x 4'6"/reinforced concrete
TA-16-178	16-006(c)	1952	active	380 gal	
TA-16-371	16-006(d)	1953	active	1,216 gal	
TA-16-381	16-006(e)	1952	active	540 gal	
TA-16-385	16-006(f)	1963	active	300 gal	steel
TA-16-420	16-006(g)	1952	abandoned 1962	unknown	
TA-16-1153	16-006(h)		active	1,000 gal	

Of the active septic systems, TA-16-178, -371, and -381 overflow to leach fields and TA-16-175 and -385 overflow to drain lines. The active systems appear to be operating properly.

WASTE INFORMATION

The waste consists of domestic sewage and possibly industrial waste. In November 1988, TA-16-175 and -385 were sampled. The results of the analyses indicated that volatiles were present and EP Toxic metals were below detection limits.

RELEASE INFORMATION

It is unknown whether any of these septic systems have caused a hazardous waste release.

DRAFT

16-007 DECOMMISSIONED WASTE PONDS

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: LATE 1940's - 1970's

UNIT INFORMATION

There were four ponds to the northeast of explosives machining buildings TA-16-30, -31, -32, -33, and -34. Aerial photos from the 1940's show the ponds full of liquid. The drains from the explosives machining buildings connected to the ponds. The HE was removed before the ponds were filled and the area was graded. The buildings have also been decommissioned.

WASTE INFORMATION

The four ponds are believed to have received HE contaminated liquid.

RELEASE INFORMATION

The pond contents were removed before the ponds were filled and graded. There is no evidence that a hazardous waste release occurred while the ponds were active.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE/DISPOSAL/TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1940's - 1980's

UNIT INFORMATION

An inactive, unlined pond [16-008(a)] received liquid waste from process buildings TA-16-89, -90, -91. The pond was approximately 100' x 250', and it was unlined. Remains of the pond were documented in the RFA. There was a hypalon-lined pond [16-008(b)] at the TA-16 burning ground. The pond received liquid from two filtration beds to the south of the pond. To reduce the barium nitrate level in the pond liquid, sodium sulfate was added on one occasion to precipitate barium as barium sulfate. When barium nitrate levels had been reduced to less than 100 ppm, the liquid was discharged to an outfall. Currently, the liner has been pulled, and a closure plan has been submitted to the state. Sampling indicates that there has been no release below the liner.

WASTE INFORMATION

The waste in the unlined pond may have consisted of HE, including barium and chemicals used in electroplating operations. Samples of the unlined pond sludge did not contain high levels of HE. The sludge in the lined pond contained barium sulfate.

RELEASE INFORMATION

There is no evidence of hazardous releases from the inactive process building pond. The lined pond had an outfall.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): OPEN BURNING
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1940's - 1960's

UNIT INFORMATION

A 1948 engineering drawing (ENG-R134) indicates a burn area at S25+50, W62+50 [16-009(a)]. No information regarding the decommissioning of the area is available. An old burning ground [16-009(b)] is reported to have been near TA-16-260 and was probably at MDA-R.

WASTE INFORMATION

The waste consisted of HE, some of which contained barium.

RELEASE INFORMATION

It is suspected that barium was released.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): OPEN BURNING
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1940's - PRESENT

UNIT INFORMATION

TA-16 appears to have had a HE burning ground at the present location since the beginning of operations in the technical area. A 1948 topographic map shows what appears to be a burning ground with two burn pads located at the present burn site. Equipment contaminated with HE and waste HE are burned at this area. The following table includes many of the structures associated with this burning ground:

STRUCTURE	SWMU NO.	TYPE	BUILT	DIMENSIONS	CURRENT USE
TA-16-386	16-010(a)	burning area	1951	100' x 100'	storage area
TA-16-387	16-010(b)	burning area	1951	100' x 100'	flash pad
TA-16-388	16-010(c)	burning slab	1951	12' x 20'	burn table (4' x 16')
TA-16-399	16-010(d)	burning slab	1951	20' x 20'	burn table (4' x 16')
TA-16-401	16-010(e)	pressure filter tank	1961	8' dia x 10' high, steel	same
TA-16-406	16-010(f)	pressure filter tank	1965	8' dia x 10' high, steel	same
TA-16-228	16-010(g)	filter/treatment unit	1988		wastewater treatment
TA-16-390	16-010(h)	basket wash facility	1951		equipment storage
TA-16-392	16-010(i)	filter bed	1951		burning pad (inactive)
TA-16-394	16-010(j)	filter bed	1951	12' x 12' x 1'	open burning tray
TA-16-1129	16-010(k)	trough	1951		inactive
TA-16-1134	16-010(l)	trough	1951		inactive
TA-16-1135	16-010(m)	trough	1951		inactive

Several processes for HE treatment and disposal are conducted at the burning grounds: 1) Equipment contaminated with HE is flashed at the flash pad, TA-16-387. The pad consists of a layer of sand several inches thick over a soil surface. In the past, the items that required disposal by flashing were disposed of at MDA-P. 2) Waste HE is disposed of at burn tables, TA-16-388 and -399. These tables, which were constructed near former burning slabs, are about 2' above the ground and hold burn trays that are about 4' x 16' in size. 3) HE sludge is processed through pressure filter tanks TA-16-401 and -406. These tanks are cone shaped steel containers with a surface layer of sand overlying layers of fine and coarse gravel. The sludge is dried and then burned in the tanks. Approximately 750 pounds of sludge can be burned at one time. Recently (1988) a carbon filter treatment unit, TA-16-228, was installed to treat wastewater draining from the tanks. 4) Oil contaminated with solvents is burned at TA-16-394. This structure was modified from a filter bed and now consists of a 12' x 12' x 1' metal tray filled with 6 to 8 inches of sand. This tray contains four shallow steel pans that are lined with fire bricks onto which the contaminated oil is poured and ignited. The following disposal units were used in the past in the burning grounds, but are not currently active: 1) The basket washing facility, TA-16-390, was operated from 1951-1961. The HE residues in the washwater went into floor drains in this building to filter beds TA-16-392, -393, and -394 via troughs TA-16-1129, -1134, -1135, and -1136. After drying in the filter beds, the sludge was burned. About 400 pounds of HE could be burned in one day. The filter bed sand was raked after the initial burning and the raked material was taken to the scrap HE burning pit and reburned. Filter bed TA-16-393 was taken to TA-54 for disposal in 1965. 2) Uranium contaminated objects were also burned at this area at one time. Filter bed TA-16-392 was modified to a pad for this purpose.

WASTE INFORMATION

The waste consists of HE residues containing barium and a small amount of uranium was used in some of the burns conducted in the past.

RELEASE INFORMATION

It is unknown the extent to which these areas may have caused a release of hazardous waste.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

The following table includes active container storage areas at TA-16.

STRUCTURE	SWMU NO	TYPE OF STORAGE	STRUCTURE	SWMU NO	TYPE OF STORAGE
TA-16-221	16-012(a)	rest house	TA-16-340	16-012(n)	satellite
TA-16-223	16-012(b)	rest house	TA-16-341	16-012(o)	rest house
TA-16-225	16-012(c)	rest house	TA-16-342	16-012(p)	satellite
TA-16-260	16-012(d)	satellite	TA-16-343	16-012(q)	rest house
TA-16-261	16-012(e)	rest house	TA-16-345	16-012(r)	rest house
TA-16-263	16-012(f)	rest house	TA-16-360	16-012(s)	rest house
TA-16-281	16-012(g)	rest house	TA-16-370	16-012(t)	satellite
TA-16-285	16-012(h)	rest house	TA-16-430	16-012(u)	satellite
TA-16-300	16-012(i)	satellite	TA-16-435	16-012(v)	rest house
TA-16-302	16-012(j)	satellite	TA-16-437	16-012(w)	rest house
TA-16-303	16-012(k)	rest house	TA-16-460	16-012(x)	satellite
TA-16-304	16-012(l)	satellite	TA-16-463	16-012(y)	rest house
TA-16-306	16-012(m)	satellite			

WASTE INFORMATION

The containers, depending on the location, store spent solvents, HE-contaminated materials, scrap HE, barium nitrate, floor sweepings and unknown wastes.

RELEASE INFORMATION

There have been no known releases from the active storage areas.

16-013 DECOMMISSIONED STORAGE AREAS

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ?

UNIT INFORMATION

The courtyard by TA-16-518, -519, -520 was a container storage area [16-013(a)] that was noted in the CEARP. The drums have been removed and the area is reported to have been cleaned up according to a recent field survey. TA-16-283 [16-013(b)] was a container storage area for scrap HE, but the drums have been removed and the building has been made into a museum.

WASTE INFORMATION

The areas near TA-16-518, -519, and -520 stored used solvent, hydraulic fluids, and unknown waste. TA-16-283 stored scrap HE.

RELEASE INFORMATION

The 1987 CEARP field survey noted that a few of the drums at TA-16-518, -519, and -520 were leaking. The areas have been cleaned up and it is unknown whether hazardous materials remain.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): OFF-GAS SYSTEM
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1988 - PRESENT

UNIT INFORMATION

In the fall of 1988 when the tritium facility at TA-16, TA-16-451, became operational, an off-gas process began operation. All gases which may contain tritium are stored in a tank until a given pressure is exceeded. The gases are then passed to a catalyst bed operated at high temperatures and the tritium is oxidized to water. The water is collected on molecular sieves in a series to ensure high efficiency. When a sieve is near breakthrough, hot nitrogen gas is used to strip the water from the catalyst bed. The concentrated tritiated water is collected on a second series of molecular sieves. Before breakthrough, the tritium-containing sieve is placed in drums. It is planned to ship the drums to Mound for reprocessing.

WASTE INFORMATION

The wastes consist of tritium-containing molecular sieves.

RELEASE INFORMATION

After treatment, the off-gases are discharged to the atmosphere.

DRAFT

16-015 LAUNDRY AND STEAM WASHING

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): OTHER: LAUNDRY
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Structure TA-16-15 [16-015(a)] is listed as a laundry and locker room built in 1945 and removed in 1956. A steam washing house, TA-16-18 [16-015(b)], was also built in 1945, and it was destroyed by burning in 1960. Steam cleaning building TA-16-36 [16-015(c)] was built in 1944 and burned in 1960. Steam cleaning building TA-16-51 [16-015(d)] was built in 1944 and destroyed by burning in 1960. Other cleaning operations may have been present in the early days.

WASTE INFORMATION

Specific waste information is lacking. The waste may have contained HE residues and/or oils and grease.

RELEASE INFORMATION

It is unknown whether hazardous constituents were released. The buildings have been decommissioned.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED/INACTIVE
PERIOD OF USE: 1960's

UNIT INFORMATION

Landfills or surface disposal areas in TA-16 include: a) In 1965, a magnetometer survey indicated an area where metal material had been buried. The material was located in the old exclusion area of TA-16. The area was excavated and the material was taken to MDA-P. It is possible that other buried material still exists in the area. b) The 1987 CEARP field survey noted a surface disposal area consisting of broken concrete and debris with an illegible sign posted in front of the disposal area. c) In the late 1940's a possible landfill or storage area for barium nitrate may have been located at the site of the present TA-3-386.

WASTE INFORMATION

The waste in the old exclusion area is metal. The CEARP field survey noted concrete and other debris possibly contaminated with HE in a surface disposal area. The possible landfill beneath the present TA-3-386 contains barium nitrate.

RELEASE INFORMATION

It is unknown whether any of these areas have caused a release of hazardous waste.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

An incinerator, TA-16-412, was used to burn HE-contaminated paper and rags at TA-16. It was built in 1962. It is a cage-type unit with a basement pit and measures approximately 20' x 20'. This incinerator replaced TA-16-403, a decommissioned incinerator (see 16-023). Incinerator TA-16-412 has been replaced by incinerator TA-16-1150 at the burning ground that is currently active. The active incinerator consists of primary and secondary combustion chambers and a settling chamber. Trash is loaded into the primary chamber by a front-end loader, and the burn cycle is initiated. After two to three weeks of burning, the ash is removed, placed on the scrap metal pile and transferred to HSE-7. Each 810-pound burn produces approximately two cubic feet of ash. Up to four burns may occur each day.

WASTE INFORMATION

The waste presently incinerated is paper and rags contaminated with HE. Barium is not suspected to be present. HE contaminated oil/solvents may be burned in TA-16-1150 with approval; however, they are currently open-burned at TA-16-293 and -294.

RELEASE INFORMATION

Emissions from the present incinerator conform to federal and state standards when operated at manufacturer-specified conditions, and consist of combustion products.

DRAFT

16-017 WORLD WAR II HE COMPLEX

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): BUILDING/STRUCTURE
UNIT USE: PRODUCTION/TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's - PRESENT

UNIT INFORMATION

Approximately 30 buildings in the central portion of TA-16 were part of the World War II HE operations. Most of the buildings are in poor repair and many have been abandoned. None are work areas, although several of the more structurally sound buildings are used as storage facilities. Some of the buildings are contaminated to the extent that recrystallized HE has formed stalactites under the floors. There is a continual threat that detonation will occur as the buildings continue to deteriorate and collapse. Stabilization of the structures is not practical as the operation could endanger workers. A few of these buildings are on the historical preservation list. Any liquid waste handling facilities associated with the structures are believed to be contaminated with HE.

WASTE INFORMATION

The buildings are contaminated with HE.

RELEASE INFORMATION

It is unknown whether the structures have caused a release to the environment.

DRAFT

16-018 MATERIAL DISPOSAL AREA P

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: LATE 1940's - 1985

UNIT INFORMATION

MDA-P is a 6.71 acre landfill at the edge of Canyon de Valle. Materials disposed in MDA-P are the noncombustible debris remaining from burned structures that were HE contaminated. A former detonator burning area is indicated as having been located within MDA-P. The debris consists of residuals of old magazines and explosives buildings from TA-6-9, -11, and -16. Other waste includes ashes from the incinerator, items suspected of being HE contaminated, chemical bottles and buckets, and general trash. Although a major portion of MDA-P has been covered with soil and leveled, some debris has fallen into the canyon bottom and the material on the edge of the filled area is still uncovered. A closure plan has been submitted to NMEID for MDA-P.

WASTE INFORMATION

The waste consists of HE-contaminated building debris, possibly containing barium and lead and chemicals.

RELEASE INFORMATION

Debris from MDA-P has fallen into the canyon. A culvert draining runoff water from a waste explosive burning pad was directed across the top of the site and caused erosion and subsidence in 1985. It is currently directed around the edge. LANL staff have indicated that movement of barium and possibly lead into the drainage is suspected.

16-019 MATERIAL DISPOSAL AREA R

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's

UNIT INFORMATION

In the 1940's an area in the northern part of TA-16 was used as a burning ground for waste explosives prior to the construction of the present burn site. The site was abandoned and during the construction of the 132-group buildings, grading of the surface caused soil to be pushed into the canyon. This area is known as MDA-R. It is about 2.27 acres in extent. Information regarding this area is lacking, but there is no evidence that the site was ever used for the disposal of objects or debris. The surface has not been disturbed for many years.

WASTE INFORMATION

The waste consists of HE burn residues, possibly containing barium. During early years of operation, uranium and lead were suspected to have been used.

RELEASE INFORMATION

It is unknown whether there has been a release from this site.

DRAFT

16-020 SILVER RECOVERY / OUTFALL REGION

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): SILVER RECOVERY
UNIT USE: RECYCLING/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1960's - PRESENT

UNIT INFORMATION

For many years, an X-ray film processing laboratory has been operating in TA-16-222. Currently, liquids are treated for silver recovery before being released to an outfall. Prior to 1979, the liquids were discharged directly to the environment.

WASTE INFORMATION

The recovery unit handles solid waste. The waste discharged prior to 1979 was spent photoprocessing solutions and associated silver.

RELEASE INFORMATION

Hazardous releases occurred to the outfall region before the silver recovery unit was put into service.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): OPERATION RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1950's

UNIT INFORMATION

A plating operation was located at TA-16-450. The building was constructed between 1951 and 1953. Spent liquids are believed to have been discharged to a drainage east of the facility.

WASTE INFORMATION

The wastewater probably contained cyanide and sodium hydroxide.

RELEASE INFORMATION

It is suspected that the discharge contained hazardous constituents.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1984 - PRESENT

UNIT INFORMATION

Eight underground storage tanks for fuel were identified in TA-16. One of these tanks, TA-16-205, was found to have leaks during a volumetric testing program. This is a steel tank with a capacity of 560 gallons and dimensions of 48' diameter x 6' long. It was installed in 1984. When tested, the tank had a loss rate of >10 gallons/hour.

WASTE INFORMATION

The tank stored diesel.

RELEASE INFORMATION

The tank has released diesel to the surrounding soil.

DRAFT

SUMMARY

LOCATION: TA-16
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

An incinerator, TA-16-199 [16-023(a)], was apparently used in the late 1950's. It had been removed by 1961. Another incinerator, TA-16-403 [16-023(b)] was constructed of steel wire cloth on a steel frame. It was used from 1961 to 1962. This incinerator was removed in 1967.

WASTE INFORMATION

The waste consisted of HE-contaminated paper and rags.

RELEASE INFORMATION

There is no evidence that hazardous releases occurred from these incinerators.

DRAFT

TA-16 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
16-001(a)	16-1
16-001(b)	16-1
16-001(c)	16-4
16-001(d)	16-4
16-001(e)	16-2
16-002	Not shown, location unknown
16-003(a)	16-2
16-003(b)	16-1
16-003(c)	16-1
16-003(d)	16-2
16-003(e)	16-2
16-003(f)	16-2
16-003(g)	16-2
16-003(h)	16-1
16-003(i)	16-2
16-003(j)	16-2
16-003(k)	16-2
16-003(l)	16-1
16-003(m)	16-2
16-003(n)	16-2
16-003(o)	16-2
16-003(p)	16-2
16-003(q)	16-2
16-003(r)	16-2
16-003(s)	16-2
16-003(t)	16-2
16-003(u)	16-2
16-003(v)	16-1
16-004	16-2
16-005(a)	16-4

DRAFT

TA-16 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX (CONTINUED)

SWMU	FIGURE NUMBER
16-005(b)	16-4
16-005(c)	16-4
16-005(d)	16-4
16-005(e)	16-4
16-005(f)	16-3
16-005(g)	16-3
16-005(h)	16-3
16-005(i)	16-3
16-005(j)	16-4
16-005(k)	Not shown, location unknown
16-005(l)	16-4
16-005(m)	16-4
16-005(n)	Not shown, location unknown
16-005(o)	16-4
16-006(a)	16-1
16-006(b)	16-1
16-006(c)	16-1
16-006(d)	16-2
16-006(e)	16-2
16-006(f)	16-2
16-006(g)	16-2
16-006(h)	Not shown, location unknown
16-007	16-4
16-008(a)	16-4
16-008(b)	16-2
16-009(a)	16-4
16-009(b)	16-6
16-010(a)	16-2
16-010(b)	16-2

DRAFT

TA-16 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX (CONTINUED)

SWMU	FIGURE NUMBER
16-010(c)	16-2
16-010(d)	16-2
16-010(e)	16-2
16-010(f)	16-2
16-010(g)	Not shown, location unknown
16-010(h)	16-2
16-010(i)	16-3
16-010(j)	16-2
16-010(k)	16-2
16-010(l)	16-2
16-010(m)	16-2
16-011	16-1
16-012(a)	16-1
16-012(b)	16-1
16-012(c)	16-1
16-012(d)	16-2
16-012(e)	16-1
16-012(f)	16-3
16-012(g)	16-1
16-012(h)	16-1
16-012(i)	16-2
16-012(j)	16-2
16-012(k)	16-2
16-012(l)	16-2
16-012(m)	16-2
16-012(n)	16-2
16-012(o)	16-2
16-012(p)	16-2
16-012(q)	16-2

DRAFT

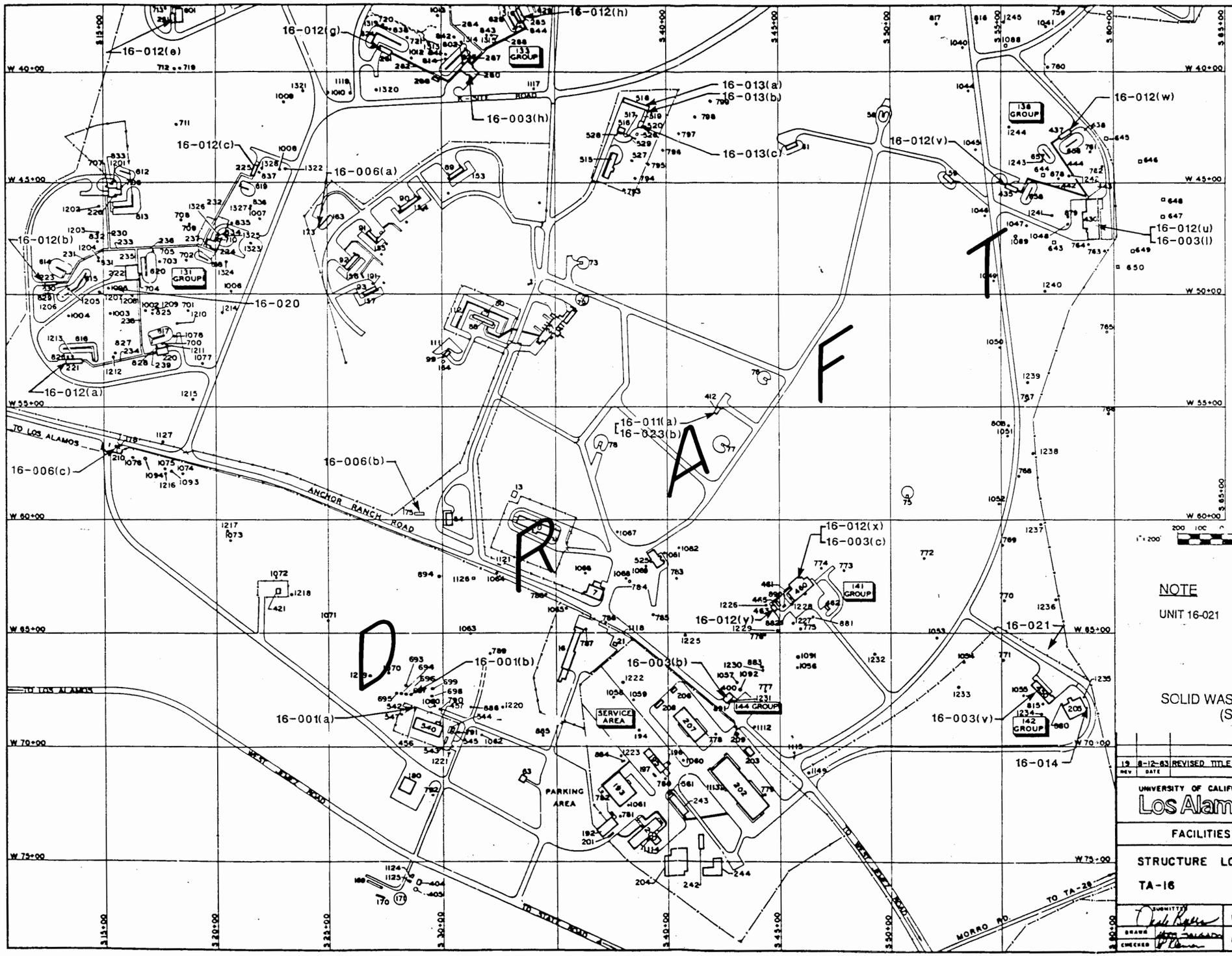
TA-16 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX (CONTINUED)

SWMU	FIGURE NUMBER
16-012(r)	16-2
16-012(s)	16-2
16-012(t)	16-2
16-012(u)	16-1
16-012(v)	16-1
16-012(w)	16-1
16-012(x)	16-1
16-012(y)	16-1
16-013(a)	16-1
16-013(b)	16-1
16-013(c)	16-1
16-013(d)	16-2
16-014	16-1
16-015(a)	Not shown, location unknown
16-015(b)	16-4
16-015(c)	16-4
16-015(d)	16-4
16-016	Not shown, location unknown
16-017	16-4
16-018	16-2, 16-5
16-019	16-6
16-020	16-1
16-021	16-1
16-022	Not shown, location unknown
16-023(a)	Not shown, location unknown
16-023(b)	16-1

DRAFT

NOTE: Some structure locations contain more than one SWMU.

301215 02 01 B84



UNCLASSIFIED

EXPLANATION

16-001 SWMU LOCATION

1" = 200'

GRAPHIC SCALE

NOTE

UNIT 16-021 APPROXIMATE LOCATION

FIGURE 16-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-16

REV	DATE	REVISION	BY	CKD	APP
19	8-12-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-10-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-16 S-SITE

SEC CLASSIFICATION: CLASS. U
REVIEWED BY
DATE 10-10-83

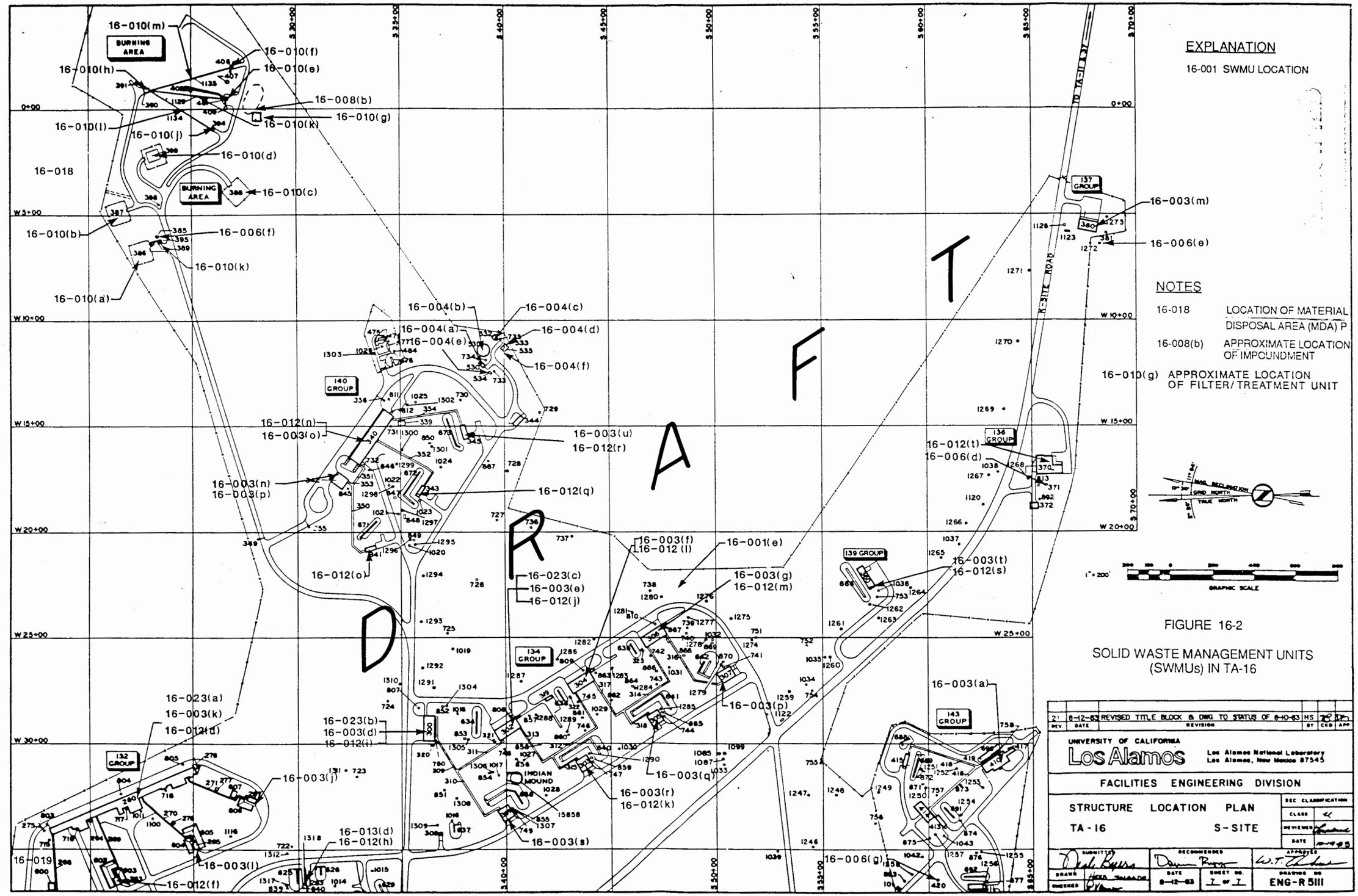
SUBMITTED
DRAWN
CHECKED

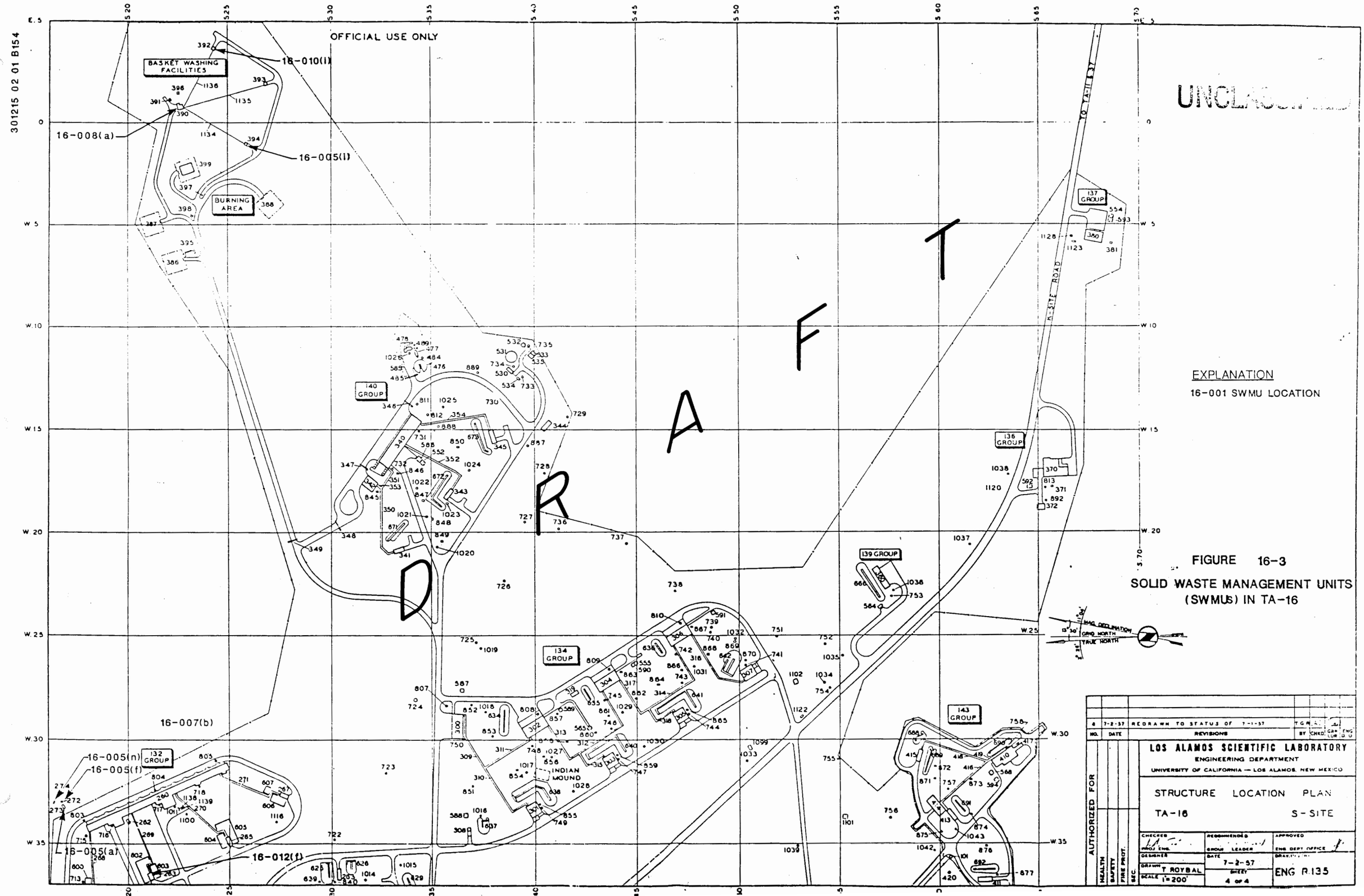
RECOMMENDED
DATE 8-12-83
SHEET NO. 6 OF 7

APPROVED

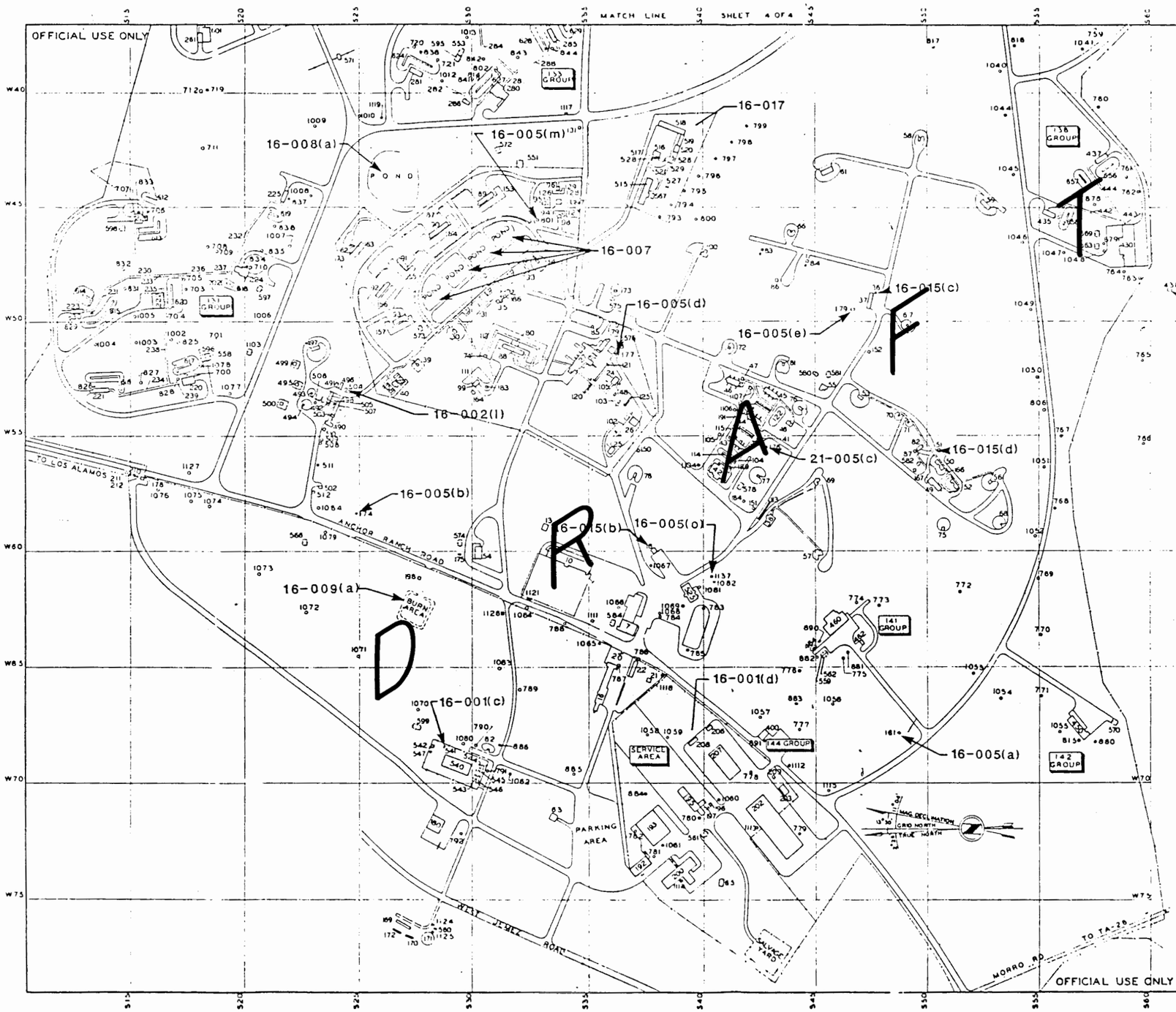
DRAWING NO ENG-R5111

301215 02 01 B16




301215 02 01 B154
OFFICIAL USE ONLY
UNCLASSIFIED
DRAFT
BASKET WASHING FACILITIES
16-010(1)
16-008(a)
16-005(1)
BURNING AREA
140 GROUP
137 GROUP
136 GROUP
139 GROUP
134 GROUP
143 GROUP
132 GROUP
INDIAN MOUND
16-007(b)
16-005(n)
16-005(f)
16-005(a)
16-012(f)
TO TA-11
A-SITE ROAD
MAG DECLINATION
GRID NORTH
TRUE NORTH
EXPLANATION
16-001 SWMU LOCATION
FIGURE 16-3
SOLID WASTE MANAGEMENT UNITS (SWMUS) IN TA-16
LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO
STRUCTURE LOCATION PLAN
TA-16 S-SITE
4 7-2-57 REDRAWN TO STATUS OF 7-1-57
NO. DATE REVISIONS BY CHKD
AUTHORIZED FOR
HEALTH
SAFETY
FIRE PROT.
SEC.
CHECKED
PROJ. ENG.
GROUP LEADER
APPROVED
ENG. DEPT. OFFICE
DESIGNER
DATE 7-2-57
DRAWN T. ROYBAL
SCALE 1=200'
SHEET 4 of 4
ENG R.135

3 5 02 01 B153



UNCLASSIFIED

EXPLANATION

16-001 SWMU LOCATION

NOTES

16-017 SWMU ENCOMPASSES FENCED AREA

FIGURE 16-4

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-16

NO.	DATE	REVISIONS	BY	CHECKED
9	7-8-57	REDRAWN TO STATUS OF 7-1-57	P.R.	

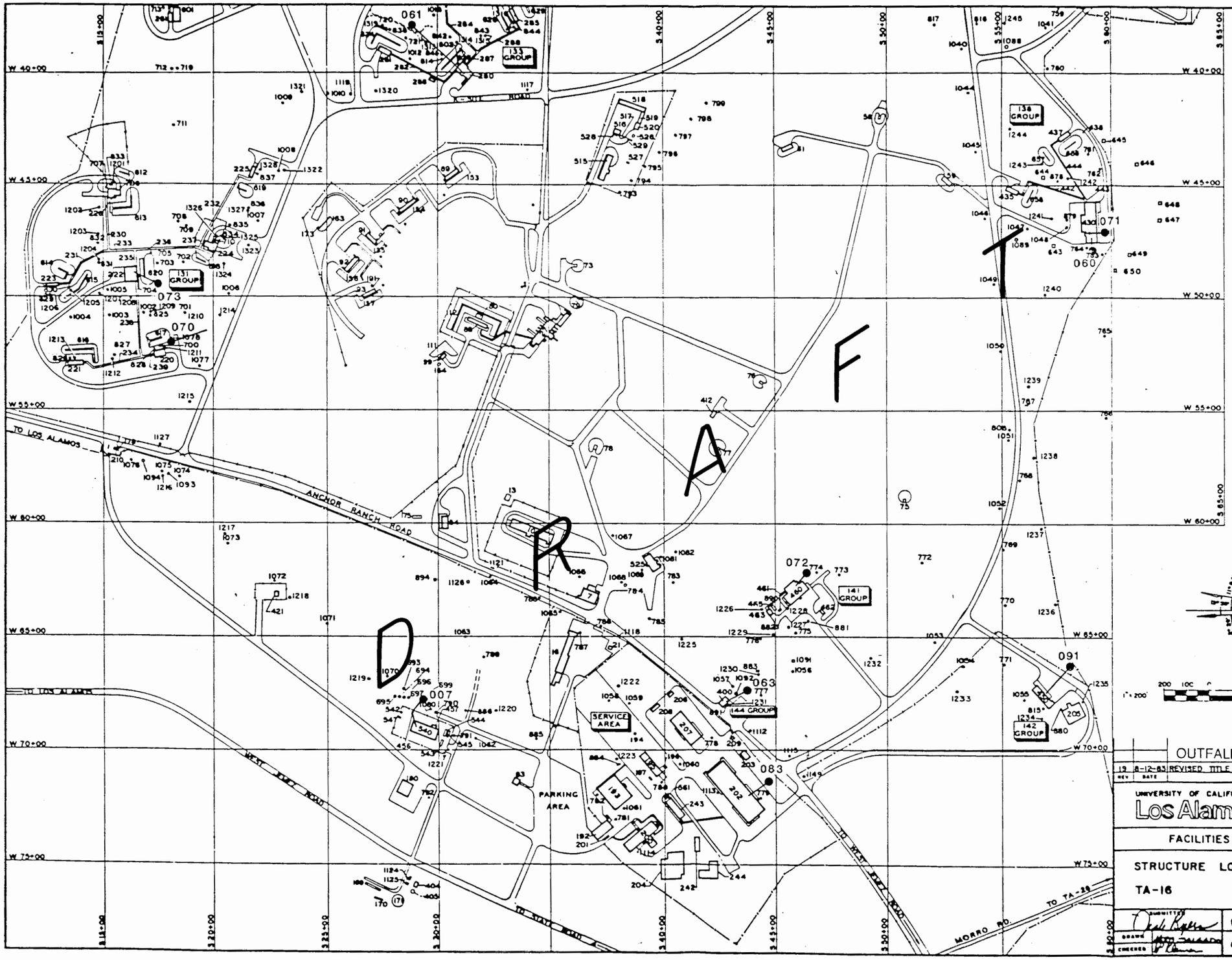
AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT, SEC

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

STRUCTURE LOCATION PLAN
TA-16 S-SITE

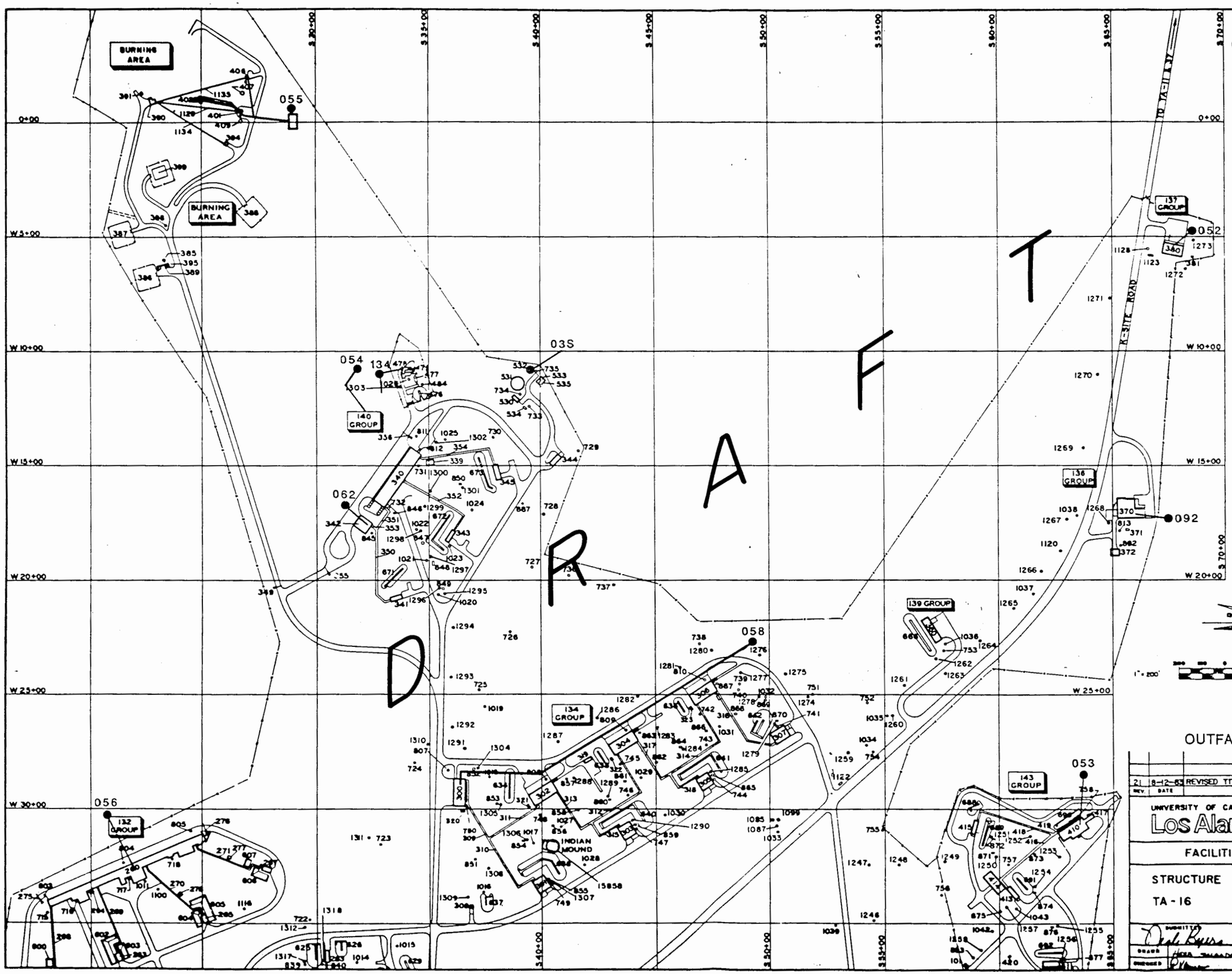
CHECKED: PHYS. ENG. | RECOMMENDED: GROUP LEADER | APPROVED: ENG. DEPT. HEAD
DRAWN: P ROSS | DATE: 7-8-57 | SHEET 3 OF 4
SCALE: 1" = 200' | ENG-R-13

301215 02 01 B71



UNCLASSIFIED

301215 02 01 B48



EXPLANATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBER (SEE APPENDIX A)

FIGURE 16-8

OUTFALL LOCATIONS IN TA-16

REV.	DATE	REVISION	BY	CKD	APP
2	8-12-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-10-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-16 S-SITE

SUBMITTED: Dale Byers
RECOMMENDED: Dennis Rose
APPROVED: W.T. Weber
DRAWN: HOBA TALLADA
DATE: 8-12-83
SHEET NO. 1 OF 1
DRAWING NO. ENG-R 5111
DEC CLASSIFICATION: CLASS U
REVIEWED
DATE

301215 02 01 B19

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-1	16 - 1		REMOVED 1956	
TA-16-2	16 - 2		REMOVED 1956	
TA-16-3	16 - 3		REMOVED 1956	
TA-16-4	16 - 4		REMOVED 1956	
TA-16-5	16 - 5		REMOVED 1956	
TA-16-6	16 - 6		REMOVED 1956	
TA-16-7	16 - 7	STORAGE BUILDING		535+00 W65+00
TA-16-8	16 - 8		REMOVED 1956	
TA-16-9	16 - 9		REMOVED 1956	
TA-16-10	16 - 10	WAREHOUSE		535+00 W60+00
TA-16-11	16 - 11		REMOVED 1956	
TA-16-12	16 - 12		REMOVED 1956	
TA-16-13	16 - 13	DOCK	FORMERLY S-10 F	535+00 W60+00
TA-16-14	16 - 14		REMOVED 1956	
TA-16-15	16 - 15		REMOVED 1956	
TA-16-16	16 - 16	CAFETERIA	FORMERLY S-13	535+00 W65+00
TA-16-17	16 - 17		REMOVED 1956	
TA-16-18	16 - 18		REMOVED 1960	
TA-16-19	16 - 19		REMOVED 1956	
TA-16-20	16 - 20		REMOVED 1953	
TA-16-21	16 - 21	PUMPING STATION	FORMERLY S-17 A	535+00 W65+00
TA-16-22	16 - 22		REMOVED 1961	
TA-16-23	16 - 23		REMOVED 1951	
TA-16-24	16 - 24		REMOVED 1968	
TA-16-25	16 - 25		REMOVED 1968	
TA-16-26	16 - 26		REMOVED 1968	
TA-16-27	16 - 27	STORAGE BUILDING	ABANDONED 1970	535+00 W50+00
TA-16-28	16 - 28		REMOVED 1968	
TA-16-29	16 - 29		REMOVED 1956	
TA-16-30	16 - 30		REMOVED 1960	
TA-16-31	16 - 31		REMOVED 1960	
TA-16-32	16 - 32		REMOVED 1960	
TA-16-33	16 - 33		REMOVED 1960	
TA-16-34	16 - 34		REMOVED 1960	
TA-16-35	16 - 35		REMOVED 1960	
TA-16-36	16 - 36		REMOVED 1960	
TA-16-37	16 - 37		REMOVED 1960	
TA-16-38	16 - 38		REMOVED 1960	
TA-16-39	16 - 39		REMOVED 1960	
TA-16-40	16 - 40		REMOVED 1960	
TA-16-41	16 - 41		REMOVED 1960	
TA-16-42	16 - 42		REMOVED 1960	
TA-16-43	16 - 43		REMOVED 1960	
TA-16-44	16 - 44		REMOVED 1960	
TA-16-45	16 - 45		REMOVED 1960	
TA-16-46	16 - 46		REMOVED 1960	
TA-16-47	16 - 47		REMOVED 1960	
TA-16-48	16 - 48		REMOVED 1960	
TA-16-49	16 - 49		REMOVED 1960	
TA-16-50	16 - 50		REMOVED 1960	
TA-16-51	16 - 51		REMOVED 1960	
TA-16-52	16 - 52		REMOVED 1960	
TA-16-53	16 - 53		REMOVED 1960	
TA-16-54	16 - 54	GRINDING BUILDING	FORMERLY S-45	530+00 W60+00
TA-16-55	16 - 55		REMOVED 1960	
TA-16-56	16 - 56		REMOVED 1960	
TA-16-57	16 - 57		REMOVED 1960	
TA-16-58	16 - 58	MAGAZINE	FORMERLY S-57	550+00 W40+00
TA-16-59	16 - 59	MAGAZINE	FORMERLY S-58	555+00 W45+00
TA-16-60	16 - 60		REMOVED 1950	
TA-16-61	16 - 61	MAGAZINE	FORMERLY S-60	545+00 W45+00
TA-16-62	16 - 62		REMOVED 1968	
TA-16-63	16 - 63	STORAGE BUILDING	ABANDONED 1951	535+00 W70+00
TA-16-64	16 - 64		REMOVED 1951	
TA-16-65	16 - 65		REMOVED 1951	
TA-16-66	16 - 66		REMOVED 1960	
TA-16-67	16 - 67		REMOVED 1960	
TA-16-68	16 - 68		REMOVED 1960	
TA-16-69	16 - 69		REMOVED 1960	
TA-16-70	16 - 70		REMOVED 1960	
TA-16-71	16 - 71		REMOVED 1960	
TA-16-72	16 - 72		REMOVED 1960	
TA-16-73	16 - 73	PERSONNEL SHELTER	FORMERLY S-77	535+00 W50+00
TA-16-74	16 - 74		REMOVED 1960	
TA-16-75	16 - 75	PERSONNEL SHELTER	FORMERLY S-80	550+00 W60+00
TA-16-76	16 - 76	PERSONNEL SHELTER	FORMERLY S-81	545+00 W55+00
TA-16-77	16 - 77	PERSONNEL SHELTER	FORMERLY S-82	545+00 W55+00
TA-16-78	16 - 78	PERSONNEL SHELTER	FORMERLY S-83	535+00 W55+00
TA-16-79	16 - 79	PERSONNEL SHELTER	FORMERLY S-84	535+00 W50+00
TA-16-80	16 - 80	STORAGE BUILDING	FORMERLY S-85	530+00 W50+00
TA-16-81	16 - 81		REMOVED 1960	
TA-16-82	16 - 82		REMOVED 1968	
TA-16-83	16 - 83		REMOVED 1960	
TA-16-84	16 - 84		REMOVED 1960	
TA-16-85	16 - 85		REMOVED 1947	
TA-16-86	16 - 86		REMOVED 1960	
TA-16-87	16 - 87		REMOVED	
TA-16-88	16 - 88	CASTING REST HOUSE	FORMERLY S-100	530+00 W50+00
TA-16-89	16 - 89	PROCESS BUILDING	FORMERLY S-104	530+00 W45+00
TA-16-90	16 - 90	PROCESS BUILDING	FORMERLY S-102	530+00 W45+00
TA-16-91	16 - 91	PROCESS BUILDING	FORMERLY S-103	525+00 W50+00
TA-16-92	16 - 92	INSPECTION BUILDING	FORMERLY S-101	525+00 W50+00
TA-16-93	16 - 93	PROCESS BUILDING	ABANDONED 1970	525+00 W50+00
TA-16-94	16 - 94		REMOVED 1960	
TA-16-95	16 - 95		REMOVED 1960	
TA-16-96	16 - 96		REMOVED 1960	
TA-16-97	16 - 97		REMOVED 1960	
TA-16-98	16 - 98		REMOVED 1960	
TA-16-99	16 - 99	STORAGE BUILDING	FORMERLY S-107	530+00 W55+00
TA-16-100	16 - 100		REMOVED 1960	
TA-16-101	16 - 101	GUARD HOUSE		560+00 W35+00
TA-16-102	16 - 102		REMOVED 1968	
TA-16-103	16 - 103		REMOVED 1968	
TA-16-104	16 - 104		REMOVED 1960	
TA-16-105	16 - 105		REMOVED 1968	
TA-16-106	16 - 106		REMOVED 1949	
TA-16-107	16 - 107		REMOVED 1950	
TA-16-108	16 - 108		REMOVED 1950	
TA-16-109	16 - 109		REMOVED 1950	
TA-16-110	16 - 110		REMOVED 1968	
TA-16-111	16 - 111	BARRICADE	ABANDONED 1959	530+00 W50+00
TA-16-112	16 - 112	BARRICADE	ABANDONED 1959	530+00 W50+00
TA-16-113	16 - 113		REMOVED 1960	
TA-16-114	16 - 114		REMOVED 1960	
TA-16-115	16 - 115		REMOVED 1960	
TA-16-116	16 - 116		REMOVED 1960	
TA-16-117	16 - 117		REMOVED 1951	
TA-16-118	16 - 118		REMOVED 1950	
TA-16-119	16 - 119		REMOVED 1948	
TA-16-120	16 - 120		REMOVED 1968	
TA-16-121	16 - 121		REMOVED 1968	
TA-16-122	16 - 122		REMOVED 1962	
TA-16-123	16 - 123		REMOVED 1955	
TA-16-124	16 - 124		REMOVED 1949	
TA-16-125	16 - 125		REMOVED 1968	
TA-16-126	16 - 126		REMOVED 1960	
TA-16-127	16 - 127		REMOVED 1960	
TA-16-128	16 - 128		REMOVED 1960	
TA-16-129	16 - 129		REMOVED 1960	
TA-16-130	16 - 130		REMOVED 1950	
TA-16-131	16 - 131		REMOVED 1960	
TA-16-132	16 - 132		REMOVED 1955	
TA-16-133	16 - 133		REMOVED 1955	
TA-16-134	16 - 134		REMOVED 1955	
TA-16-135	16 - 135		REMOVED 1953	
TA-16-136	16 - 136		REMOVED 1955	
TA-16-137	16 - 137		REMOVED 1955	
TA-16-138	16 - 138		REMOVED 1955	
TA-16-139	16 - 139		REMOVED 1955	
TA-16-140	16 - 140		REMOVED 1955	
TA-16-141	16 - 141		REMOVED 1953	
TA-16-142	16 - 142		REMOVED 1955	
TA-16-143	16 - 143		REMOVED 1955	
TA-16-144	16 - 144		REMOVED 1955	
TA-16-145	16 - 145		REMOVED 1955	
TA-16-146	16 - 146		REMOVED 1955	
TA-16-147	16 - 147		REMOVED 1954	
TA-16-[illegible]	16 - 148		REMOVED 1968	
TA-16-[illegible]	16 - 149		REMOVED 1950	
TA-16-[illegible]	16 - 150		REMOVED 1958	
TA-16-[illegible]	16 - 151		REMOVED 1958	
TA-16-[illegible]	16 - 152		REMOVED 1958	
TA-16-153	16 - 153	BARRICADE		530+00 W45+00
TA-16-154	16 - 154	BARRICADE		530+00 W45+00
TA-16-155	16 - 155	BARRICADE		525+00 W50+00
TA-16-156	16 - 156	BARRICADE		525+00 W50+00
TA-16-157	16 - 157	BARRICADE		525+00 W50+00
TA-16-158	16 - 158		REMOVED	
TA-16-159	16 - 159		REMOVED	
TA-16-160	16 - 160		REMOVED 1956	
TA-16-161	16 - 161		REMOVED	
TA-16-162	16 - 162		REMOVED 1971	
TA-16-163	16 - 163	BARRICADE	ABANDONED 1972	525+00 W45+00
TA-16-164	16 - 164	STORAGE BUILDING		530+00 W55+00
TA-16-165	16 - 165		REMOVED 1956	
TA-16-166	16 - 166		REMOVED 1960	
TA-16-167	16 - 167		REMOVED 1958	
TA-16-168	16 - 168		REMOVED 1952	
TA-16-169	16 - 169	TANK	WATER	525+00 W75+00
TA-16-170	16 - 170	TANK	WATER	525+00 W75+00
TA-16-171	16 - 171	TANK	WATER	530+00 W75+00
TA-16-172	16 - 172	TANK, WATER	RELOCATED TO TA-49-66	
TA-16-173	16 - 173	TANK, SEPTIC	ABANDONED 1971	525+00 W45+00
TA-16-174	16 - 174		REMOVED	
TA-16-175	16 - 175	TANK	SEPTIC	530+00 W60+00
TA-16-176	16 - 176		REMOVED	
TA-16-177	16 - 177		REMOVED 1968	
TA-16-178	16 - 178	TANK	SEPTIC	515+00 W55+00
TA-16-179	16 - 179		REMOVED	
TA-16-180	16 - 180	FIRE STATION NO. 3		530+00 W70+00
TA-16-181	16 - 181		REMOVED 1956	
TA-16-182	16 - 182		REMOVED 1956	
TA-16-183	16 - 183		REMOVED 1968	
TA-16-184	16 - 184		REMOVED	
TA-16-185	16 - 185		REMOVED	
TA-16-186	16 - 186		REMOVED	
TA-16-187	16 - 187		REMOVED	
TA-16-188	16 - 188		REMOVED 1956	
TA-16-189	16 - 189		REMOVED 1960	
TA-16-190	16 - 190		REMOVED 1955	
TA-16-191	16 - 191	STORAGE BUILDING		525+00 W50+00
TA-16-192	16 - 192	GUARD HOUSE		535+00 W75+00
TA-16-193	16 - 193	CHANGE HOUSE		540+00 W70+00
TA-16-194	16 - 194	JIB CRANE		540+00 W70+00
TA-16-195	16 - 195	SERVICE STATION		540+00 W70+00
TA-16-196	16 - 196	TANK	FUEL, UNDERGROUND	540+00 W70+00
TA-16-197	16 - 197	TANK	FUEL, UNDERGROUND	540+00 W70+00
TA-16-198	16 - 198		REMOVED	
TA-16-199	16 - 199		REMOVED	
TA-16-200	16 - 200	ADMINISTRATION BUILDING		540+00 W75+00
TA-16-201	16 - 201	PROTECTIVE FORCE STA. NO. 560		535+00 W75+00
TA-16-202	16 - 202	SHOPS BUILDING		545+00 W70+00
TA-16-203	16 - 203	LUMBER STORAGE		545+00 W70+00
TA-16-204	16 - 204	PROGRAM SUPPORT FACILITY		540+00 W75+00
TA-16-205	16 - 205	TRITUM PROCESSING FACILITY		560+00 W70+00
TA-16-206	16 - 206	PAINT & BOTTLE STORAGE		540+00 W70+00
TA-16-207	16 - 207	WAREHOUSE		540+00 W70+00
TA-16-208	16 - 208	STORAGE BUILDING		540+00 W70+00
TA-16-209	16 - 209	SAFETY OFFICE		545+00 W70+00
TA-16-210	16 - 210	GUARD HOUSE		515+00 W55+00
TA-16-211	16 - 211			
TA-16-212	16 - 212			
TA-16-213	16 - 213	MANHOLE, WATER	NOT SHOWN	
TA-16-214	16 - 214	EXHAUST STACK	NOT SHOWN	
TA-16-215	16 - 215	TANK, INDUSTRIAL WASTE	NOT SHOWN	
TA-16-216	16 - 216	TANK, FUEL	NOT SHOWN	
TA-16-217	16 - 217	MANHOLE, SANITARY	NOT SHOWN	
TA-16-218	16 - 218		UNASSIGNED	
TA-16-219	16 - 219		UNASSIGNED	
TA-16-220	16 - 220	X - RAY BUILDING	CONST. NO. 131 - 1	520+00 W55+00
TA-16-221	16 - 221	REST HOUSE	CONST. NO. 131 - A	515+00 W55+00
TA-16-222	16 - 222	DARK ROOM BUILDING	CONST. NO. 131 - 2	515+00 W50+00
TA-16-223	16 - 223	REST HOUSE	CONST. NO. 131 - B	515+00 W50+00
TA-16-224	16 - 224	X - RAY BUILDING	CONST. NO. 131 - 4	520+00 W50+00
TA-16-225	16 - 225	REST HOUSE	CONST. NO. 131 - C	520+00 W45+00
TA-16-226	16 - 226	X - RAY BUILDING	CONST. NO. 131 - 3	515+00 W45+00
TA-16-227	16 - 227			
TA-16-228	16 - 228	TREATMENT FACILITY		
TA-16-229	16 - 229			
TA-16-230	16 - 230	PASSAGEWAY	BLDG. 226 TO PASS. 236	515+00 W45+00
TA-16-231	16 - 231	PASSAGEWAY	BLDG. 223 TO PASS. 233	515+00 W50+00
TA-16-232	16 - 232	PASSAGEWAY	BLDG. 225 TO PASS. 236	520+00 W45+00
TA-16-233	16 - 233	PASSAGEWAY	PASS. 231 TO PASS. 236	515+00 W50+00
TA-16-234	16 - 234	PASSAGEWAY	BLDG. 221 TO BLDG. 220	515+00 W55+00
TA-13-235	16 - 235	PASSAGEWAY	BLDG. 222 TO PASS. 236	515+00 W50+00
TA-16-236	16 - 236	PASSAGEWAY	PASS. 233 TO PASS. 237	520+00 W50+00
TA-16-237	16 - 237	PASSAGEWAY	BLDG. 224 TO PASS. 236	520+00 W50+00
TA-16-238	16 - 238	PASSAGEWAY	BLDG. 222 TO PASS. 234	515+00 W50+00
TA-16-239	16 - 239	PASSAGEWAY	BLDG. 220 TO PASS. 234	515+00 W55+00
TA-16-240	16 - 240	TRANSFORMER STATION	NOT SHOWN	
TA-16-241	16 - 241	MANHOLE, STEAM	NOT SHOWN	
TA-16-242	16 - 242	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1041	540+00 W75+00
TA-16-243	16 - 243	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1192	540+00 W75+00
TA-16-244	16 - 244	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1199	540+00 W75+00
TA-16-245	16 - 245		UNASSIGNED	
TA-16-246	16 - 246		UNASSIGNED	
TA-16-247	16 - 247		UNASSIGNED	
TA-16-248	16 - 248		UNASSIGNED	
TA-16-249	16 - 249		UNASSIGNED	
TA-16-250	16 - 250		UNASSIGNED	
TA-16-251	16 - 251		UNASSIGNED	
TA-16-252	16 - 252		UNASSIGNED	
TA-16-253	16 - 253		UNASSIGNED	
TA-16-254	16 - 254		UNASSIGNED	
TA-16-255	16 - 255		UNASSIGNED	
TA-16-256	16 - 256		UNASSIGNED	
TA-16-257	16 - 257		UNASSIGNED	
TA-16-258	16 - 258		UNASSIGNED	
TA-16-259	16 - 259		UNASSIGNED	
TA-16-260	16 - 260	PROCESS BUILDING	CONST. NO. 132 - 5	520+00 W35+00
TA-16-261	16 - 261	REST HOUSE	CONST NO 132 - A	520+00 W40+00

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DECLASSIFIED

FIGURE 16-9

TA-16 STRUCTURE LOCATION INDEX
(1 OF 5)

REV	DATE	REVISION	BY	CKD	APP
20	9-22-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	HG		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-16 S-SITE

SEC CLASSIFICATION: CLASS U
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED
DRAWN
CHECKED
DATE 9-22-83
SHEET NO. 1 OF 7
DRAWING NO ENG-R 5111

301215 02 01 B20

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-262	16 - 262		REMOVED 1957	
TA-16-263	16 - 263	REST HOUSE	CONST. NO. 132 - B	520+00 W35+00
TA-16-264	16 - 264	TANK, AIR		515+00 W35+00
TA-16-265	16 - 265	REST HOUSE	CONST. NO. 132 - C	525+00 W35+00
TA-16-266	16 - 266			
TA-16-267	16 - 267	REST HOUSE	CONST. NO. 132 - D	530+00 W35+00
TA-16-268	16 - 268	PASSAGEWAY	BLDG. 260 TO BLDG. 261	520+00 W35+00
TA-16-269	16 - 269	PASSAGEWAY	BLDG. 260 TO BLDG. 263	520+00 W35+00
TA-16-270	16 - 270	PASSAGEWAY	BLDG. 260 TO BLDG. 265	525+00 W35+00
TA-16-271	16 - 271	PASSAGEWAY	BLDG. 260 TO BLDG. 267	525+00 W30+00
TA-16-272	16 - 272		REMOVED	
TA-16-273	16 - 273		REMOVED	
TA-16-274	16 - 274		REMOVED	
TA-16-275	16 - 275	ROAD BLOCK		520+00 W35+00
TA-16-276	16 - 276	ROAD BLOCK		525+00 W30+00
TA-16-277	16 - 277	EQUIPMENT STORAGE BUILDING		525+00 W30+00
TA-16-278	16 - 278	EQUIPMENT STORAGE BUILDING		525+00 W35+00
TA-16-279	16 - 279		UNASSIGNED	
TA-16-280	16 - 280	INSPECTION BUILDING	CONST. NO. 133 - 1	530+00 W40+00
TA-16-281	16 - 281	REST HOUSE	CONST. NO. 133 - A	530+00 W40+00
TA-16-282	16 - 282	PASSAGEWAY	BLDG. 280 TO BLDG. 281	530+00 W40+00
TA-16-283	16 - 283	REST HOUSE	CONST. NO. 133 - B	530+00 W35+00
TA-16-284	16 - 284	PASSAGEWAY	BLDG. 283 TO PASS. 288	530+00 W40+00
TA-16-285	16 - 285	REST HOUSE	CONST. NO. 133 - C	535+00 W40+00
TA-16-286	16 - 286	COFFEE HOUSE		530+00 W40+00
TA-16-287	16 - 287	PASSAGEWAY	BLDG. 280 TO PASS. 288	530+00 W40+00
TA-16-288	16 - 288	PASSAGEWAY	BLDG. 285 TO PASS. 287	535+00 W40+00
TA-16-289	16 - 289		UNASSIGNED	
TA-16-290	16 - 290		UNASSIGNED	
TA-16-291	16 - 291		UNASSIGNED	
TA-16-292	16 - 292		UNASSIGNED	
TA-16-293	16 - 293		UNASSIGNED	
TA-16-294	16 - 294		UNASSIGNED	
TA-16-295	16 - 295		UNASSIGNED	
TA-16-296	16 - 296		UNASSIGNED	
TA-16-297	16 - 297		UNASSIGNED	
TA-16-298	16 - 298		UNASSIGNED	
TA-16-299	16 - 299		UNASSIGNED	
TA-16-300	16 - 300	PROCESS BUILDING	CONST. NO. 134 -	535+00 W30+00
TA-16-301	16 - 301	REST HOUSE	CONST. NO. 134 - A	540+00 W35+00
TA-16-302	16 - 302	PROCESS BUILDING	CONST. NO. 134 - 2	540+00 W30+00
TA-16-303	16 - 303	REST HOUSE	CONST. NO. 134 - B	545+00 W30+00
TA-16-304	16 - 304	PROCESS BUILDING	CONST. NO. 134 - 3	545+00 W25+00
TA-16-305	16 - 305	REST HOUSE	CONST. NO. 134 - C	545+00 W30+00
TA-16-306	16 - 306	PROCESS BUILDING	CONST. NO. 134 - 4	545+00 W25+00
TA-16-307	16 - 307	REST HOUSE	CONST. NO. 134 - D	550+00 W25+00
TA-16-308	16 - 308	PROCESS BUILDING	CONST. NO. 134 - 5	535+00 W35+00
TA-16-309	16 - 309	PASSAGEWAY	BLDG. 300 TO PASS. 310	535+00 W30+00
TA-16-310	16 - 310	PASSAGEWAY	BLDG. 301 TO PASS. 309	540+00 W25+00
TA-16-311	16 - 311	PASSAGEWAY	BLDG. 302 TO PASS. 310	540+00 W30+00
TA-16-312	16 - 312	PASSAGEWAY	BLDG. 304 TO PASS. 313	545+00 W30+00
TA-16-313	16 - 313	PASSAGEWAY	BLDG. 302 TO PASS. 312	540+00 W30+00
TA-16-314	16 - 314	PASSAGEWAY	BLDG. 306 TO PASS. 317	545+00 W30+00
TA-16-315	16 - 315	PASSAGEWAY	BLDG. 303 TO PASS. 312	545+00 W30+00
TA-16-316	16 - 316	PASSAGEWAY	BLDG. 308 TO BLDG. 307	550+00 W25+00
TA-16-317	16 - 317	PASSAGEWAY	BLDG. 304 TO PASS. 314	545+00 W25+00
TA-16-318	16 - 318	PASSAGEWAY	BLDG. 305 TO PASS. 314	545+00 W30+00
TA-16-319	16 - 319	COFFEE HOUSE		540+00 W30+00
TA-16-320	16 - 320	CONDENSER	REFRIGERANT	535+00 W30+00
TA-16-321	16 - 321	CONDENSER	REFRIGERANT	545+00 W30+00
TA-16-322	16 - 322	CONDENSER	REFRIGERANT	545+00 W25+00
TA-16-323	16 - 323	CONDENSER	REFRIGERANT	545+00 W25+00
TA-16-324	16 - 324		UNASSIGNED	
TA-16-325	16 - 325		UNASSIGNED	
TA-16-326	16 - 326		UNASSIGNED	
TA-16-327	16 - 327		UNASSIGNED	
TA-16-328	16 - 328		UNASSIGNED	
TA-16-329	16 - 329		UNASSIGNED	
TA-16-330	16 - 330		UNASSIGNED	
TA-16-331	16 - 331		UNASSIGNED	
TA-16-332	16 - 332		UNASSIGNED	
TA-16-333	16 - 333		UNASSIGNED	
TA-16-334	16 - 334		UNASSIGNED	
TA-16-335	16 - 335		UNASSIGNED	
TA-16-336	16 - 336		UNASSIGNED	
TA-16-337	16 - 337		UNASSIGNED	
TA-16-338	16 - 338		UNASSIGNED	
TA-16-339	16 - 339	STORAGE BLDG		535+00 W15+00
TA-16-340	16 - 340	PROCESS BUILDING	CONST. NO. 140 - 1	535+00 W15+00
TA-16-341	16 - 341	REST HOUSE	CONST. NO. 140 - A	535+00 W20+00
TA-16-342	16 - 342	BLENDING BUILDING	CONST. NO. 140 - 2	530+00 W20+00
TA-16-343	16 - 343	REST HOUSE	CONST. NO. 140 - B	535+00 W20+00
TA-16-344	16 - 344	DRUM STORAGE		540+00 W15+00
TA-16-345	16 - 345	REST HOUSE	CONST. NO. 140 - C	540+00 W15+00
TA-16-346	16 - 346		REMOVED 1962	
TA-16-347	16 - 347		REMOVED 1962	
TA-16-348	16 - 348		REMOVED 1962	
TA-16-349	16 - 349	ROAD BLOCK		530+00 W20+00
TA-16-350	16 - 350	PASSAGEWAY	BLDG. 341 TO PASS. 351	535+00 W20+00
TA-16-351	16 - 351	PASSAGEWAY	BLDG. 340 TO PASS. 350	535+00 W15+00
TA-16-352	16 - 352	PASSAGEWAY	BLDG. 340 TO PASS. 343	535+00 W15+00
TA-16-353	16 - 353	PASSAGEWAY	BLDG. 342 TO PASS. 350	530+00 W20+00
TA-16-354	16 - 354	PASSAGEWAY	BLDG. 340 TO BLDG. 345	535+00 W15+00
TA-16-355	16 - 355	ROAD BLOCK		530+00 W20+00
TA-16-356	16 - 356	ROAD BLOCK		535+00 W15+00
TA-16-357	16 - 357		UNASSIGNED	
TA-16-358	16 - 358		UNASSIGNED	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-359	16 - 359		UNASSIGNED	
TA-16-360	16 - 360	PROCESS BUILDING	CONST. NO. 139 - 1	555+00 W20+00
TA-16-361	16 - 361		UNASSIGNED	
TA-16-362	16 - 362		UNASSIGNED	
TA-16-363	16 - 363		UNASSIGNED	
TA-16-364	16 - 364		UNASSIGNED	
TA-16-365	16 - 365		UNASSIGNED	
TA-16-366	16 - 366		UNASSIGNED	
TA-16-367	16 - 367		UNASSIGNED	
TA-16-368	16 - 368		UNASSIGNED	
TA-16-369	16 - 369		UNASSIGNED	
TA-16-370	16 - 370	PROCESS BUILDING	CONST. NO. 138 - 1	565+00 W15+00
TA-16-371	16 - 371	TANK, SEPTIC		560+00 W20+00
TA-16-372	16 - 372	COOLING TOWER		565+00 W20+00
TA-16-373	16 - 373		UNASSIGNED	
TA-16-374	16 - 374		UNASSIGNED	
TA-16-375	16 - 375		UNASSIGNED	
TA-16-376	16 - 376		UNASSIGNED	
TA-16-377	16 - 377		UNASSIGNED	
TA-16-378	16 - 378		UNASSIGNED	
TA-16-379	16 - 379		UNASSIGNED	
TA-16-380	16 - 380	PROCESS BUILDING	CONST. NO. 137 - 1	570+00 W 5+00
TA-16-381	16 - 381	TANK, SEPTIC		570+00 W 5+00
TA-16-382	16 - 382		UNASSIGNED	
TA-16-384	16 - 384		REMOVED 1970	
TA-16-385	16 - 385	TANK, SEPTIC		525+00 W 5+00
TA-16-386	16 - 386	BURNING AREA		520+00 W 5+00
TA-16-387	16 - 387	BURNING AREA		520+00 W 5+00
TA-16-388	16 - 388	BURNING AREA		525+00 W 5+00
TA-16-389	16 - 389	CONTROL SHELTER		525+00 W 5+00
TA-16-390	16 - 390	BASKET WASHING BUILDING	ABANDONED 1970	520+00 0+00
TA-16-391	16 - 391	TANK, FUEL	ABANDONED 1970	520+00 0+00
TA-16-392	16 - 392	FILTER BEDS		525+00 E 5+00
TA-16-393	16 - 393		REMOVED 1968	
TA-16-394	16 - 394	FILTER BED		525+00 0+00
TA-16-395	16 - 395	BARRICADE		525+00 W 5+00
TA-16-396	16 - 396		REMOVED 1968	
TA-16-397	16 - 397		REMOVED 1960	
TA-16-398	16 - 398	MANHOLE, WATER		525+00 W 5+00
TA-16-399	16 - 399	BURNING AREA		525+00 0+00
TA-16-400	16 - 400	TRUCK WASHING BUILDING	ABANDONED 1970	545+00 W70+00
TA-16-401	16 - 401	TANK, PRESSURE		525+00 0+00
TA-16-402	16 - 402	AIR HEATER		525+00 0+00
TA-16-403	16 - 403		REMOVED 1968	
TA-16-404	16 - 404	MICROSTRAINER BUILDING		530+00 W75+00
TA-16-405	16 - 405	TANK, SURGE		530+00 W75+00
TA-16-406	16 - 406	TANK, PRESSURE		525+00 0+00
TA-16-407	16 - 407	MANHOLE, AIR VENT		525+00 0+00
TA-16-409	16 - 409	MANHOLE, AIR VENT		525+00 W00+00
TA-16-410	16 - 410	ASSEMBLY BUILDING	CONST. NO. 143 - 1	560+00 W30+00
TA-16-411	16 - 411	REST HOUSE	CONST. NO. 143 - C	560+00 W35+00
TA-16-412	16 - 412	INCINERATOR		540+00 W55+00
TA-16-413	16 - 413	REST HOUSE	CONST. NO. 143 - A	560+00 W35+00
TA-16-414	16 - 414	STORAGE BUILDING		560+00 W35+00
TA-16-415	16 - 415	REST HOUSE	CONST. NO. 143 - B	560+00 W30+00
TA-16-416	16 - 416	PASSAGEWAY	BLDG. 413 TO PASS. 419	560+00 W30+00
TA-16-417	16 - 417	DRUM STORAGE		555+00 W30+00
TA-16-418	16 - 418	PASSAGEWAY	BLDG. 415 TO PASS. 419	560+00 W30+00
TA-16-419	16 - 419	PASSAGEWAY	BLDG. 410 TO PASS. 416	555+00 W30+00
TA-16-420	16 - 420	TANK, SEPTIC	ABANDONED 1962	560+00 W35+00
TA-16-421	16 - 421	F.D. TRAINING FACILITY		565+00 W25+00
TA-16-422	16 - 422		UNASSIGNED	
TA-16-423	16 - 423		UNASSIGNED	
TA-16-424	16 - 424		UNASSIGNED	
TA-16-425	16 - 425		UNASSIGNED	
TA-16-426	16 - 426		UNASSIGNED	
TA-16-427	16 - 427		UNASSIGNED	
TA-16-428	16 - 428		UNASSIGNED	
TA-16-429	16 - 429		UNASSIGNED	
TA-16-430	16 - 430	PROCESS BUILDING	CONST. NO. 136 - 1	560+00 W45+00
TA-16-431	16 - 431		REMOVED 1968	
TA-16-432	16 - 432		UNASSIGNED	
TA-16-433	16 - 433		UNASSIGNED	
TA-16-434	16 - 434		UNASSIGNED	
TA-16-435	16 - 435	REST HOUSE	CONST. NO. 136 - B	555+00 W45+00
TA-16-436	16 - 436		UNASSIGNED	
TA-16-437	16 - 437	REST HOUSE	CONST. NO. 136 - A	560+00 W45+00
TA-16-438	16 - 438	ROAD BLOCK	FORMERLY TA-33-66	560+00 W45+00
TA-16-439	16 - 439		UNASSIGNED	
TA-16-440	16 - 440		UNASSIGNED	
TA-16-441	16 - 441		UNASSIGNED	
TA-16-442	16 - 442	PASSAGEWAY	BLDG. 435 TO PASS. 443	555+00 W45+00
TA-16-443	16 - 443	PASSAGEWAY	BLDG. 430 TO PASS. 442	560+00 W45+00
TA-16-444	16 - 444	PASSAGEWAY	BLDG. 437 TO PASS. 443	560+00 W45+00
TA-16-445	16 - 445		UNASSIGNED	
TA-16-446	16 - 446		UNASSIGNED	
TA-16-447	16 - 447		UNASSIGNED	
TA-16-448	16 - 448		UNASSIGNED	
TA-16-449	16 - 449		UNASSIGNED	
TA-16-450	16 - 450	PROCESS BUILDING	CONST. NO. 142 - 1	555+00 W70+00
TA-16-451	16 - 451		UNASSIGNED	
TA-16-453	16 - 453		UNASSIGNED	
TA-16-454	16 - 454		UNASSIGNED	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-456	16 - 456	TANK, BLOWDOWN STEAM		530+00 W70+00
TA-16-457	16 - 457	VALVEHOUSE, WATER		530+00 W70+00
TA-16-458	16 - 458		UNASSIGNED	
TA-16-459	16 - 459		UNASSIGNED	
TA-16-460	16 - 460	LABORATORY BUILDING	CONST. NO. 141 - 1	545+00 W65+00
TA-16-461	16 - 461	PASSAGEWAY		545+00 W65+00
TA-16-462	16 - 462	STORAGE BUILDING	CONST. NO. 141 - 2	545+00 W65+00
TA-16-463	16 - 463	REST HOUSE		545+00 W65+00
TA-16-464	16 - 464		REMOVED 1966	
TA-16-465	16 - 465	BARRICADE		
TA-16-466	16 - 466		UNASSIGNED	
TA-16-467	16 - 467		UNASSIGNED	
TA-16-468	16 - 468		UNASSIGNED	
TA-16-469	16 - 469		UNASSIGNED	
TA-16-470	16 - 470		UNASSIGNED	
TA-16-471	16 - 471		UNASSIGNED	
TA-16-472	16 - 472		UNASSIGNED	
TA-16-473	16 - 473		UNASSIGNED	
TA-16-474	16 - 474	CONCRETE PAD		535+00 W10+00
TA-16-475	16 - 475		REMOVED 1951	
TA-16-476	16 - 476	LABORATORY BUILDING	FORMERLY P-2	535+00 W10+00
TA-16-477	16 - 477	LABORATORY BUILDING	FORMERLY P-3	535+00 W10+00
TA-16-478	16 - 478	PROCESS BUILDING	FORMERLY P-4	535+00 W10+00
TA-16-479	16 - 479		REMOVED 1949	
TA-16-480	16 - 480		REMOVED 1951	
TA-16-481	16 - 481		REMOVED 1951	
TA-16-482	16 - 482		REMOVED 1949	
TA-16-483	16 - 483		REMOVED 1951	
TA-16-484	16 - 484	MANHOLE	FORMERLY P-10 CONTROL	535+00 W10+00
TA-16-485	16 - 485		REMOVED 1963	
TA-16-486	16 - 486		REMOVED 1951	
TA-16-487	16 - 487		REMOVED 1951	
TA-16-488	16 - 488		REMOVED 1951	
TA-16-489	16 - 489	CHARGE STATION	FORMERLY P-15	535+00 W10+00
TA-16-490	16 - 490		REMOVED 1960	
TA-16-491	16 - 491		REMOVED 1960	
TA-16-492	16 - 492		REMOVED 1960	
TA-16-493	16 - 493		REMOVED 1960	
TA-16-494	16 - 494		REMOVED 1960	
TA-16-495	16 - 495		REMOVED 1960	
TA-16-496	16 - 496		REMOVED 1960	
TA-16-497	16 - 497		REMOVED 1960	
TA-16-498	16 - 498		REMOVED 1960	
TA-16-499	16 - 499		REMOVED 1960	
TA-16-500	16 - 500		REMOVED 1960	
TA-16-501	16 - 501		REMOVED 1950	
TA-16-502	16 - 502		REMOVED 1960	
TA-16-503	16 - 503		REMOVED 1960	
TA-16-504	16 - 504		REMOVED	
TA-16-505	16 - 505		REMOVED 1960	
TA-16-506	16 - 506		REMOVED	
TA-16-507	16 - 507		REMOVED	
TA-16-508	16 - 508		REMOVED	
TA-16-509	16 - 509		REMOVED	
TA-16-510	16 - 510		REMOVED	
TA-16-511	16 - 511		REMOVED	
TA-16-512	16 - 512		REMOVED	
TA-16-513	16 - 513		REMOVED 1951	
TA-16-514	16 - 514	TRANSFORMER STATION		535+00 W45+00
TA-16-515	16 - 515	PROCESS BUILDING	FORMERLY V-1 & V-2	535+00 W45+00
TA-16-516	16 - 516	PROCESS BUILDING	FORMERLY V-4	540+00 W45+00
TA-16-517	16 - 517	EQUIPMENT BUILDING	FORMERLY V-5	540+00 W45+00
TA-16-518	16 - 518	STORAGE BUILDING	FORMERLY V-6	540+00 W40+00
TA-16-519	16 - 519	STORAGE BUILDING	FORMERLY V-7	540+00 W40+00
TA-16-520	16 - 520	TEST BUILDING	FORMERLY V-8	540+00 W40+00
TA-16-521	16 - 521		REMOVED 1968	
TA-16-522	16 - 522		REMOVED 1943	

FIGURE 16-9

TA-16 STRUCTURE LOCATION INDEX
(2 OF 5)

REV	DATE	REVISION	BY	CKD	APP
19	10-22-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-27-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-16
S-SITE

SEC CLASSIFICATION: CLASS U
REVIEWER
DATE 10-19-83

SUBMITTED / RECOMMENDED / APPROVED

DRAWN / CHECKED / DATE 9-22-83 / SHEET NO. 2 OF 2 / DRAWING NO ENG-R 5111

301215 02 01 B21

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-523	16 - 523		REMOVED 1945	
TA-16-524	16 - 524		REMOVED 1945	
TA-16-525	16 - 525	STORAGE BUILDING		S 40+00 W60+00
TA-16-526	16 - 526	PUMP PIT	FORMERLY V-11	S 40+00 W45+00
TA-16-527	16 - 527	TANK	SEPTIC, FORMERLY V-12	S 40+00 W45+00
TA-16-528	16 - 528	BARRICADE	FORMERLY V-13	S 40+00 W45+00
TA-16-529	16 - 529	RETAINING WALL	FORMERLY V-14	S 40+00 W45+00
TA-16-530	16 - 530	TANK	IMHOFF, SEWAGE PLANT	S 40+00 W10+00
TA-16-531	16 - 531	TRICKLING FILTER	SEWAGE PLANT	S 40+00 W10+00
TA-16-532	16 - 532	TANK	FINAL, SEWAGE PLANT	S 40+00 W10+00
TA-16-533	16 - 533	SLUDGE DRYING BED	SEWAGE PLANT	S 40+00 W10+00
TA-16-534	16 - 534	SCREEN	SEWAGE PLANT	S 40+00 W10+00
TA-16-535	16 - 535	SLUDGE DRYING BED	SEWAGE PLANT	S 40+00 W10+00
TA-16-536	16 - 536	TRANSFORMER STATION		S 20+00 W45+00
TA-16-537	16 - 537	TRANSFORMER STATION		S 30+00 W50+00
TA-16-538	16 - 538	TRANSFORMER STATION		S 35+00 W65+00
TA-16-539	16 - 539	TRANSFORMER STATION		S 25+00 W70+00
TA-16-540	16 - 540	STEAM PLANT		S 30+00 W70+00
TA-16-541	16 - 541	TANK	ABANDONED	S 30+00 W70+00
TA-16-542	16 - 542	GAS REGULATOR BUILDING		S 30+00 W70+00
TA-16-543	16 - 543	TANK	FUEL, UNDERGROUND	S 30+00 W70+00
TA-16-544	16 - 544	TANK	FUEL, UNDERGROUND	S 30+00 W70+00
TA-16-545	16 - 545	TANK	FUEL, UNDERGROUND	S 30+00 W70+00
TA-16-546	16 - 546	TANK	FUEL, UNDERGROUND	S 30+00 W70+00
TA-16-547	16 - 547	MANHOLE	GAS P.R.V.	S 30+00 W70+00
TA-16-548	16 - 548	TRANSFORMER STATION		S 20+00 W 40+00
TA-16-549	16 - 549	TRANSFORMER STATION		S 20+00 W 10+00
TA-16-550	16 - 550	TRANSFORMER STATION		S 25+00 W 5+00
TA-16-551	16 - 551	TRANSFORMER STATION	SERIES LIGHTING	S 30+00 W60+00
TA-16-552	16 - 552	TRANSFORMER STATION	SERIES LIGHTING	S 35+00 W15+00
TA-16-553	16 - 553	TRANSFORMER STATION	SERIES LIGHTING	S 30+00 W40+00
TA-16-554	16 - 554	TRANSFORMER STATION	SERIES LIGHTING	S 70+00 W 5+00
TA-16-555	16 - 555	TRANSFORMER STATION	SERIES LIGHTING	S 45+00 W25+00
TA-16-556	16 - 556		REMOVED 1951	
TA-16-557	16 - 557		REMOVED 1956	
TA-16-558	16 - 558	TRANSFORMER STATION	SERIES LIGHTING	S 20+00 W50+00
TA-16-559	16 - 559	TRANSFORMER STATION	SERIES LIGHTING	S 45+00 W85+00
TA-16-560	16 - 560	CHLORINATION STATION		S 30+00 W75+00
TA-16-561	16 - 561	TRANSFORMER STATION	SERIES LIGHTING	S 40+00 W70+00
TA-16-562	16 - 562	UNIT SUBSTATION		S 45+00 W85+00
TA-16-563	16 - 563	UNIT SUBSTATION		S 60+00 W45+00
TA-16-564	16 - 564	UNIT SUBSTATION		S 55+00 W25+00
TA-16-565	16 - 565	UNIT SUBSTATION		S 45+00 W30+00
TA-16-566	16 - 566		REMOVED 1959	
TA-16-567	16 - 567		REMOVED 1966	S 40+00 W45+00
TA-16-568	16 - 568	TRANSFORMER STATION	SERIES LIGHTING	S 65+00 W30+00
TA-16-569	16 - 569	TRANSFORMER STATION	SERIES LIGHTING	S 60+00 W45+00
TA-16-570	16 - 570	UNIT SUBSTATION		S 60+00 W65+00
TA-16-571	16 - 571	TRANSFORMER STATION	SERIES LIGHTING	S 25+00 W40+00
TA-16-572	16 - 572	UNIT SUBSTATION		S 30+00 W45+00
TA-16-573	16 - 573	UNIT SUBSTATION		S 30+00 W10+00
TA-16-574	16 - 574		REMOVED 1966	
TA-16-575	16 - 575		REMOVED 1966	
TA-16-576	16 - 576	TRANSFORMER STATION	RELOCATED TO TA-15-206	
TA-16-577	16 - 577		REMOVED 1960	
TA-16-578	16 - 578		REMOVED 1960	
TA-16-579	16 - 579		REMOVED 1960	
TA-16-580	16 - 580		REMOVED 1966	
TA-16-581	16 - 581		REMOVED 1966	
TA-16-582	16 - 582		REMOVED 1960	
TA-16-583	16 - 583		REMOVED 1960	
TA-16-584	16 - 584		REMOVED 1966	
TA-16-585	16 - 585	UNIT SUBSTATION		S 30+00 W10+00
TA-16-586	16 - 586	UNIT SUBSTATION		S 35+00 W15+00
TA-16-587	16 - 587	UNIT SUBSTATION		S 35+00 W30+00
TA-16-588	16 - 588	TRANSFORMER STATION	SERIES LIGHTING	S 35+00 W35+00
TA-16-589	16 - 589	UNIT SUBSTATION		S 40+00 W30+00
TA-16-590	16 - 590	UNIT SUBSTATION		S 45+00 W25+00
TA-16-591	16 - 591	UNIT SUBSTATION		S 50+00 W25+00
TA-16-592	16 - 592	UNIT SUBSTATION		S 65+00 W20+00
TA-16-593	16 - 593	UNIT SUBSTATION		S 70+00 W 5+00
TA-16-594	16 - 594	UNIT SUBSTATION		S 65+00 W30+00
TA-16-595	16 - 595	UNIT SUBSTATION		S 30+00 W40+00
TA-16-596	16 - 596	UNIT SUBSTATION		S 20+00 W50+00
TA-16-597	16 - 597	UNIT SUBSTATION		S 20+00 W50+00
TA-16-598	16 - 598	UNIT SUBSTATION		S 15+00 W45+00
TA-16-599	16 - 599	SWITCHGEAR		S 25+00 W65+00
TA-16-600	16 - 600	BARRICADE		S 20+00 W35+00
TA-16-601	16 - 601	BARRICADE		S 20+00 W40+00
TA-16-602	16 - 602	BARRICADE		S 20+00 W35+00
TA-16-603	16 - 603	BARRICADE		S 20+00 W35+00
TA-16-604	16 - 604	BARRICADE		S 25+00 W35+00
TA-16-605	16 - 605	BARRICADE		S 25+00 W35+00
TA-16-606	16 - 606	BARRICADE		S 25+00 W35+00
TA-16-607	16 - 607	BARRICADE		S 25+00 W35+00
TA-16-608	16 - 608	TRANSFORMER STATION		S 40+00 W45+00
TA-16-609	16 - 609	TRANSFORMER STATION		S 40+00 W45+00
TA-16-610	16 - 610	TRANSFORMER STATION		S 35+00 W45+00
TA-16-611	16 - 611	TRANSFORMER STATION		S 35+00 W50+00
TA-16-612	16 - 612	BARRICADE		S 15+00 W45+00
TA-16-613	16 - 613	BARRICADE		S 15+00 W45+00
TA-16-614	16 - 614	BARRICADE		S 15+00 W50+00
TA-16-615	16 - 615	BARRICADE		S 15+00 W50+00
TA-16-616	16 - 616	BARRICADE		S 15+00 W55+00
TA-16-617	16 - 617	BARRICADE		S 15+00 W50+00
TA-16-618	16 - 618	BARRICADE		S 20+00 W50+00
TA-16-619	16 - 619	BARRICADE		S 20+00 W45+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-620	16 - 620	BARRICADE		S 15+00 W50+00
TA-16-621	16 - 621	TRANSFORMER STATION		S 30+00 W 75+00
TA-16-622	16 - 622	TRANSFORMER STATION		S 25+00 W35+00
TA-16-623	16 - 623	TRANSFORMER STATION		S 15+00 W 55+00
TA-16-624	16 - 624	BARRICADE		S 25+00 W40+00
TA-16-625	16 - 625	BARRICADE		S 30+00 W35+00
TA-16-626	16 - 626	BARRICADE		S 30+00 W35+00
TA-16-627	16 - 627	BARRICADE		S 30+00 W40+00
TA-16-628	16 - 628	BARRICADE		S 35+00 W40+00
TA-16-629	16 - 629	BARRICADE		S 35+00 W40+00
TA-16-630	16 - 630	TRANSFORMER STATION		S 25+00 0+00
TA-16-631	16 - 631	TRANSFORMER STATION		S 35+00 W65+00
TA-16-632	16 - 632		UNASSIGNED	
TA-16-633	16 - 633		UNASSIGNED	
TA-16-634	16 - 634	BARRICADE		S 40+00 W30+00
TA-16-635	16 - 635	BARRICADE		S 40+00 W30+00
TA-16-636	16 - 636	BARRICADE		S 45+00 W25+00
TA-16-637	16 - 637	BARRICADE		S 40+00 W35+00
TA-16-638	16 - 638	BARRICADE		S 40+00 W30+00
TA-16-640	16 - 640	BARRICADE		S 45+00 W30+00
TA-16-641	16 - 641	BARRICADE		S 45+00 W30+00
TA-16-642	16 - 642	BARRICADE		S 50+00 W25+00
TA-16-643	16 - 643	DEADMAN		S 55+00 W 50+00
TA-16-644	16 - 644	DEADMAN		S 55+00 W 45+00
TA-16-645	16 - 645	DEADMAN		S 60+00 W 45+00
TA-16-646	16 - 646	DEADMAN		S 60+00 W 45+00
TA-16-647	16 - 647	DEADMAN		S 60+00 W 45+00
TA-16-648	16 - 648	DEADMAN		S 60+00 W 45+00
TA-16-649	16 - 649	DEADMAN		S 60+00 W50+00
TA-16-650	16 - 650	DEADMAN		S 60+00 W50+00
TA-16-651	16 - 651		UNASSIGNED	
TA-16-652	16 - 652		UNASSIGNED	
TA-16-653	16 - 653		UNASSIGNED	
TA-16-654	16 - 654		UNASSIGNED	
TA-16-655	16 - 655		UNASSIGNED	
TA-16-656	16 - 656	BARRICADE		S 60+00 W45+00
TA-16-657	16 - 657	BARRICADE		S 55+00 W45+00
TA-16-658	16 - 658	BARRICADE		S 55+00 W45+00
TA-16-659	16 - 659		UNASSIGNED	
TA-16-660	16 - 660		UNASSIGNED	
TA-16-661	16 - 661		UNASSIGNED	
TA-16-662	16 - 662		UNASSIGNED	
TA-16-663	16 - 663		UNASSIGNED	
TA-16-664	16 - 664		UNASSIGNED	
TA-16-665	16 - 665		UNASSIGNED	
TA-16-666	16 - 666	BARRICADE		S 55+00 W25+00
TA-16-667	16 - 667		UNASSIGNED	
TA-16-668	16 - 668		UNASSIGNED	
TA-16-669	16 - 669		UNASSIGNED	
TA-16-670	16 - 670		UNASSIGNED	
TA-16-671	16 - 671	BARRICADE		S 35+00 W 20+00
TA-16-672	16 - 672	BARRICADE		S 35+00 W 20+00
TA-16-673	16 - 673	BARRICADE		S 35+00 W 15+00
TA-16-674	16 - 674		UNASSIGNED	
TA-16-675	16 - 675		UNASSIGNED	
TA-16-676	16 - 676		UNASSIGNED	
TA-16-677	16 - 677		UNASSIGNED	
TA-16-678	16 - 678		UNASSIGNED	
TA-16-679	16 - 679		UNASSIGNED	
TA-16-680	16 - 680		UNASSIGNED	
TA-16-681	16 - 681		UNASSIGNED	
TA-16-682	16 - 682		UNASSIGNED	
TA-16-683	16 - 683		UNASSIGNED	
TA-16-684	16 - 684		UNASSIGNED	
TA-16-685	16 - 685		UNASSIGNED	
TA-16-686	16 - 686		UNASSIGNED	
TA-16-687	16 - 687		UNASSIGNED	
TA-16-688	16 - 688	BARRICADE		S 60+00 W 30+00
TA-16-689	16 - 689	BARRICADE		S 60+00 W 30+00
TA-16-690	16 - 690	BARRICADE		S 65+00 W 30+00
TA-16-691	16 - 691	BARRICADE		S 60+00 W 35+00
TA-16-692	16 - 692	BARRICADE		S 60+00 W 35+00
TA-16-693	16 - 693	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-694	16 - 694	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-695	16 - 695	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-696	16 - 696	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-697	16 - 697	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-698	16 - 698	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-699	16 - 699	MANHOLE	STEAM	S 30+00 W 65+00
TA-16-700	16 - 700	MANHOLE	SANITARY	S 20+00 W 50+00
TA-16-701	16 - 701	MANHOLE	SANITARY	S 20+00 W 50+00
TA-16-702	16 - 702	MANHOLE	SANITARY	S 20+00 W 50+00
TA-16-703	16 - 703	MANHOLE	SANITARY	S 20+00 W 50+00
TA-16-704	16 - 704	MANHOLE	SANITARY	S 15+00 W 50+00
TA-16-705	16 - 705	MANHOLE	SANITARY	S 15+00 W 50+00
TA-16-706	16 - 706	MANHOLE	SANITARY	S 15+00 W 45+00
TA-16-707	16 - 707	MANHOLE	SANITARY	S 15+00 W 45+00
TA-16-708	16 - 708	MANHOLE	SANITARY	S 20+00 W 45+00
TA-16-709	16 - 709	MANHOLE	SANITARY	S 20+00 W 45+00
TA-16-710	16 - 710	MANHOLE	SANITARY	S 20+00 W 45+00
TA-16-711	16 - 711	MANHOLE	SANITARY	S 20+00 W 45+00
TA-16-712	16 - 712	MANHOLE	SANITARY	S 20+00 W 40+00
TA-16-713	16 - 713	MANHOLE	SANITARY	S 20+00 W 35+00
TA-16-715	16 - 715	MANHOLE	SANITARY	S 20+00 W 35+00
TA-16-716	16 - 716	MANHOLE	SANITARY	S 20+00 W 35+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-717	16 - 717	MANHOLE	SANITARY	S 20+00 W 35+00
TA-16-718	16 - 718	MANHOLE	SANITARY	S 25+00 W 30+00
TA-16-719	16 - 719	SEWAGE LIFT STATION		S 20+00 W 40+00
TA-16-720	16 - 720	MANHOLE	SANITARY	S 25+00 W 40+00
TA-16-721	16 - 721	MANHOLE	SANITARY	S 30+00 W 40+00
TA-16-722	16 - 722	MANHOLE	SANITARY	S 30+00 W 35+00
TA-16-723	16 - 723	MANHOLE	SANITARY	S 35+00 W 30+00
TA-16-724	16 - 724	MANHOLE	SANITARY	S 35+00 W 30+00
TA-16-725	16 - 725	MANHOLE	SANITARY	S 35+00 W 25+00
TA-16-726	16 - 726	MANHOLE	SANITARY	S 40+00 W 20+00
TA-16-727	16 - 727	MANHOLE	SANITARY	S 40+00 W 20+00
TA-16-728	16 - 728	MANHOLE	SANITARY	S 40+00 W 15+00
TA-16-729	16 - 729	MANHOLE	SANITARY	S 40+00 W 15+00
TA-16-730	16 - 730	MANHOLE	SANITARY	S 40+00 W 15+00
TA-16-731	16 - 731	MANHOLE	SANITARY	S 35+00 W 15+00
TA-16-732	16 - 732	MANHOLE	SANITARY	S 35+00 W 15+00
TA-16-733	16 - 733	MANHOLE	SANITARY	S 40+00 W 10+00
TA-16-734	16 - 734	MANHOLE	SANITARY	S 40+00 W 10+00
TA-16-735	16 - 735	MANHOLE	SANITARY	S 40+00 W 10+00
TA-16-736	16 - 736	MANHOLE	SANITARY	S 40+00 W 20+00
TA-16-737	16 - 737	MANHOLE	SANITARY	S 45+00 W 20+00
TA-16-738	16 - 738	MANHOLE	SANITARY	S 45+00 W 25+00
TA-16-739	16 - 739	MANHOLE	SANITARY	S 50+00 W 25+00
TA-16-740	16 - 740	MANHOLE	SANITARY	S 50+00 W 25+00
TA-16-741	16 - 741	MANHOLE	SANITARY	S 50+00 W 25+00
TA-16-742	16 - 742	MANHOLE	SANITARY	S 45+00 W 25+00
TA-16-743	16 - 743	MANHOLE	SANITARY	S 45+00 W 25+00
TA-16-744	16 - 744	MANHOLE	SANITARY	S 50+00 W 30+00
TA-16-745	16 - 745	MANHOLE	SANITARY	S 45+00 W 30+00
TA-16-746	16 - 746	MANHOLE	SANITARY	S 45+00 W 30+00
TA-16-747	16 - 747	MANHOLE	SANITARY	S 45+00 W 30+00
TA-16-748	16 - 748	MANHOLE	SANITARY	S 40+00 W 30+00
TA-16-749	16 - 749	MANHOLE	SANITARY	S 40+00 W 35+00
TA-16-750	16 - 750	MANHOLE	SANITARY	S 35+00 W 30+00
TA-16-751	16 - 751	MANHOLE	SANITARY	S 50+00 W 25+00
TA-16-752	16 - 752	MANHOLE	SANITARY	S 55+00 W 25+00
TA-16-753	16 - 753	MANHOLE	SANITARY	S 55+00 W 25+00
TA-16-754	16 - 754	MANHOLE	SANITARY	S 55+00 W 30+00
TA-16-755	16 - 755	MANHOLE	SANITARY	S 55+00 W 30+00
TA-16-756	16 - 756	MANHOLE	SANITARY	S 60+00 W 35+00
TA-16-757	16 - 757	MANHOLE	SANITARY	S 60+00 W 30+00
TA-16-758	16 - 758	MANHOLE	SANITARY	S 55+00 W 30+00
TA-16-759	16 - 759	MANHOLE	SANITARY	S 60+00 W 40+00
TA-16-760	16 - 760	MANHOLE	SANITARY	S 60+00 W 40+00
TA-16-761	16 - 761	MANHOLE	SANITARY	S 60+00 W 45+00
TA-16-762	16 - 762	MANHOLE	SANITARY	S 60+00 W 45+00
TA-16-763	16 - 763	MANHOLE	SANITARY	S 60+00 W 50+00
TA-16-764	16 - 764	MANHOLE	SANITARY	S 60+00 W 50+00
TA-16-765	16 - 765	MANHOLE	SANITARY	S 60+00 W 50+00
TA-16-766	16 - 766	MANHOLE	SANITARY	S 60+00 W 55+00
TA-16-767	16 - 767	MANHOLE	SANITARY	S 55+00 W 55+00
TA-16-768	16 - 768	MANHOLE	SANITARY	S 55+00 W 60+00
TA-16-769	16 - 769	MANHOLE	SANITARY	S 55+00 W 60+00
TA-16-770	16 - 770	MANHOLE	SANITARY	S 55+00 W 65+00
TA-16-771	16 - 771	MANHOLE	SANITARY	S 55+00 W 65+00
TA-16-772	16 - 772	MANHOLE	SANITARY	S 50+00 W 60+00
TA-16-773	16 - 773	MANHOLE	SANITARY	S 50+00 W 60+00
TA-16-774	16 - 774	MANHOLE	SANITARY	S 45+00 W 60+00
TA-16-775	16 - 775	MANHOLE	SANITARY	S 45+00 W 65+00
TA-16-776	16 - 776	MANHOLE	SANITARY	S 45+00 W 65+00
TA-16-777	16 - 777	MANHOLE	SANITARY	S 45+00 W 70+00
TA-16-778	16 - 778	MANHOLE	SANITARY	S 40+00 W 70+00
TA-16-779	16 - 779	MANHOLE	SANITARY	S 45+00 W 70+00
TA-16-780	16 - 780	MANHOLE	SANITARY	S 40+00 W 70+00
TA-16-781	16 - 781	MANHOLE	SANITARY	S 40+00 W 75+00
TA-16-782	16 - 782	MANHOLE	SANITARY	S 35+00 W 70+00
TA-16-783	16 - 783	MANHOLE	SANITARY	S 40+00 W 60+00

FIGURE 16-9

TA-16 STRUCTURE LOCATION INDEX
(3 OF 5)

REV.	DATE	REVISION	BY	CKD	APP
00	9-23-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-27-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-16 S-SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 10-18-83

SUBMITTED / RECOMMENDED / APPROVED

DRAWN / CHECKED

DATE 9-23-83 SHEET NO 3 OF 7

DRAWING NO ENG-R5111

301215 02 01 B22

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-784	16 - 784		REMOVED	
TA-16-785	16 - 785	MANHOLE	SANITARY	S40+00 W65+00
TA-16-786	16 - 786	MANHOLE	SANITARY	S35+00 W65+00
TA-16-787	16 - 787	MANHOLE	SANITARY	S35+00 W65+00
TA-16-788	16 - 788	MANHOLE	SANITARY	S35+00 W65+00
TA-16-789	16 - 789	MANHOLE	SANITARY	S30+00 W65+00
TA-16-790	16 - 790	MANHOLE	SANITARY	S30+00 W70+00
TA-16-791	16 - 791	MANHOLE	SANITARY	S30+00 W70+00
TA-16-792	16 - 792	MANHOLE	SANITARY	S30+00 W70+00
TA-16-793	16 - 793	MANHOLE	INDUSTRIAL WASTE	S40+00 W45+00
TA-16-794	16 - 794	MANHOLE	INDUSTRIAL WASTE	S40+00 W45+00
TA-16-795	16 - 795	MANHOLE	INDUSTRIAL WASTE	S40+00 W45+00
TA-16-796	16 - 796	MANHOLE	INDUSTRIAL WASTE	S40+00 W45+00
TA-16-797	16 - 797	MANHOLE	INDUSTRIAL WASTE	S40+00 W45+00
TA-16-798	16 - 798	MANHOLE	INDUSTRIAL WASTE	S40+00 W40+00
TA-16-799	16 - 799	MANHOLE	INDUSTRIAL WASTE	S40+00 W40+00
TA-16-800	16 - 800		REMOVED	
TA-16-801	16 - 801		REMOVED	
TA-16-802	16 - 802	MANHOLE	STORM DRAINAGE	S30+00 W40+00
TA-16-803	16 - 803	MANHOLE	STORM DRAINAGE	S20+00 W35+00
TA-16-804	16 - 804	MANHOLE	STORM DRAINAGE	S20+00 W30+00
TA-16-805	16 - 805	MANHOLE	STORM DRAINAGE	S25+00 W30+00
TA-16-806	16 - 806	MANHOLE	STORM DRAINAGE	S35+00 W55+00
TA-16-807	16 - 807	MANHOLE	INDUSTRIAL WASTE	S35+00 W30+00
TA-16-808	16 - 808	MANHOLE	INDUSTRIAL WASTE	S40+00 W30+00
TA-16-809	16 - 809	MANHOLE	INDUSTRIAL WASTE	S45+00 W25+00
TA-16-810	16 - 810	MANHOLE	INDUSTRIAL WASTE	S45+00 W25+00
TA-16-811	16 - 811	MANHOLE	INDUSTRIAL WASTE	S35+00 W15+00
TA-16-812	16 - 812	MANHOLE	INDUSTRIAL WASTE	S35+00 W15+00
TA-16-813	16 - 813	MANHOLE	SANITARY	S65+00 W20+00
TA-16-814	16 - 814	MANHOLE	SANITARY	S30+00 W40+00
TA-16-815	16 - 815	MANHOLE	SANITARY	S55+00 W70+00
TA-16-816	16 - 816	MANHOLE	SANITARY	S55+00 W40+00
TA-16-817	16 - 817	MANHOLE	SANITARY	S50+00 W40+00
TA-16-818	16 - 818		UNASSIGNED	
TA-16-819	16 - 819		UNASSIGNED	
TA-16-820	16 - 820		UNASSIGNED	
TA-16-821	16 - 821		UNASSIGNED	
TA-16-822	16 - 822		UNASSIGNED	
TA-16-823	16 - 823		UNASSIGNED	
TA-16-824	16 - 824		UNASSIGNED	
TA-16-825	16 - 825	MANHOLE	ELECTRICAL	S15+00 W50+00
TA-16-826	16 - 826	MANHOLE	ELECTRICAL	S15+00 W55+00
TA-16-827	16 - 827	MANHOLE	ELECTRICAL	S15+00 W55+00
TA-16-828	16 - 828	MANHOLE	ELECTRICAL	S15+00 W55+00
TA-16-829	16 - 829	MANHOLE	ELECTRICAL	S10+00 W50+00
TA-16-830	16 - 830	MANHOLE	ELECTRICAL	S15+00 W50+00
TA-16-831	16 - 831	MANHOLE	ELECTRICAL	S15+00 W50+00
TA-16-832	16 - 832	MANHOLE	ELECTRICAL	S15+00 W50+00
TA-16-833	16 - 833	MANHOLE	ELECTRICAL	S15+00 W45+00
TA-16-834	16 - 834	MANHOLE	ELECTRICAL	S20+00 W45+00
TA-16-835	16 - 835	MANHOLE	ELECTRICAL	S20+00 W45+00
TA-16-836	16 - 836	MANHOLE	ELECTRICAL	S20+00 W45+00
TA-16-837	16 - 837	MANHOLE	ELECTRICAL	S20+00 W45+00
TA-16-838	16 - 838	MANHOLE	ELECTRICAL	S30+00 W40+00
TA-16-839	16 - 839	MANHOLE	ELECTRICAL	S30+00 W35+00
TA-16-840	16 - 840	MANHOLE	ELECTRICAL	S30+00 W35+00
TA-16-841	16 - 841	MANHOLE	ELECTRICAL	S30+00 W40+00
TA-16-842	16 - 842	MANHOLE	ELECTRICAL	S30+00 W40+00
TA-16-843	16 - 843	MANHOLE	ELECTRICAL	S30+00 W40+00
TA-16-844	16 - 844	MANHOLE	ELECTRICAL	S35+00 W40+00
TA-16-845	16 - 845	MANHOLE	ELECTRICAL	S30+00 W20+00
TA-16-846	16 - 846	MANHOLE	ELECTRICAL	S35+00 W15+00
TA-16-847	16 - 847	MANHOLE	ELECTRICAL	S35+00 W20+00
TA-16-848	16 - 848	MANHOLE	ELECTRICAL	S35+00 W20+00
TA-16-849	16 - 849	MANHOLE	ELECTRICAL	S35+00 W20+00
TA-16-850	16 - 850	MANHOLE	ELECTRICAL	S35+00 W15+00
TA-16-851	16 - 851	MANHOLE	ELECTRICAL	S35+00 W30+00
TA-16-852	16 - 852	MANHOLE	ELECTRICAL	S35+00 W30+00
TA-16-853	16 - 853	MANHOLE	ELECTRICAL	S40+00 W30+00
TA-16-854	16 - 854	MANHOLE	ELECTRICAL	S40+00 W30+00
TA-16-855	16 - 855	MANHOLE	ELECTRICAL	S40+00 W35+00
TA-16-856	16 - 856	MANHOLE	ELECTRICAL	S40+00 W30+00
TA-16-857	16 - 857	MANHOLE	ELECTRICAL	S40+00 W30+00
TA-16-858	16 - 858	MANHOLE	ELECTRICAL	S40+00 W30+00
TA-16-859	16 - 859	MANHOLE	ELECTRICAL	S45+00 W30+00
TA-16-860	16 - 860	MANHOLE	ELECTRICAL	S45+00 W30+00
TA-16-861	16 - 861	MANHOLE	ELECTRICAL	S45+00 W30+00
TA-16-862	16 - 862	MANHOLE	ELECTRICAL	S45+00 W30+00
TA-16-863	16 - 863	MANHOLE	ELECTRICAL	S45+00 W25+00
TA-16-864	16 - 864	MANHOLE	ELECTRICAL	S45+00 W25+00
TA-16-865	16 - 865	MANHOLE	ELECTRICAL	S50+00 W30+00
TA-16-866	16 - 866	MANHOLE	ELECTRICAL	S45+00 W25+00
TA-16-867	16 - 867	MANHOLE	ELECTRICAL	S50+00 W25+00
TA-16-868	16 - 868	MANHOLE	ELECTRICAL	S50+00 W25+00
TA-16-869	16 - 869	MANHOLE	ELECTRICAL	S50+00 W25+00
TA-16-870	16 - 870	MANHOLE	ELECTRICAL	S50+00 W25+00
TA-16-871	16 - 871	MANHOLE	ELECTRICAL	S60+00 W30+00
TA-16-872	16 - 872	MANHOLE	ELECTRICAL	S60+00 W30+00
TA-16-873	16 - 873	MANHOLE	ELECTRICAL	S60+00 W30+00
TA-16-874	16 - 874	MANHOLE	ELECTRICAL	S60+00 W35+00
TA-16-875	16 - 875	MANHOLE	ELECTRICAL	S60+00 W35+00
TA-16-876	16 - 876	MANHOLE	ELECTRICAL	S60+00 W35+00
TA-16-877	16 - 877	MANHOLE	ELECTRICAL	S65+00 W35+00
TA-16-878	16 - 878	MANHOLE	ELECTRICAL	S60+00 W45+00
TA-16-879	16 - 879	MANHOLE	ELECTRICAL	S60+00 W45+00
TA-16-880	16 - 880	MANHOLE	ELECTRICAL	S55+00 W70+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-881	16 - 881	MANHOLE	ELECTRICAL	S45+00 W65+00
TA-16-882	16 - 882	MANHOLE	ELECTRICAL	S45+00 W65+00
TA-16-883	16 - 883	MANHOLE	ELECTRICAL	S45+00 W65+00
TA-16-884	16 - 884	MANHOLE	ABANDONED 1966	S40+00 W70+00
TA-16-885	16 - 885	MANHOLE	ABANDONED 1966	S35+00 W70+00
TA-16-886	16 - 886	MANHOLE	ABANDONED 1966	S30+00 W70+00
TA-16-887	16 - 887	MANHOLE	ELECTRICAL	S40+00 W15+00
TA-16-888	16 - 888		REMOVED 1972	
TA-16-889	16 - 889		REMOVED 1972	
TA-16-890	16 - 890	MANHOLE	ELECTRICAL	S45+00 W65+00
TA-16-891	16 - 891	MANHOLE	ELECTRICAL	S45+00 W70+00
TA-16-892	16 - 892	MANHOLE	ELECTRICAL	S65+00 W20+00
TA-16-893	16 - 893	MANHOLE	ELECTRICAL	S60+00 W35+00
TA-16-894	16 - 894	MANHOLE	ELECTRICAL	S30+00 W65+00
TA-16-895	16 - 895		UNASSIGNED	
TA-16-896	16 - 896		UNASSIGNED	
TA-16-897	16 - 897		UNASSIGNED	
TA-16-898	16 - 898		UNASSIGNED	
TA-16-899	16 - 899		UNASSIGNED	
NOTE	TA-16-900	THRU TA-16-999	CANNOT BE USED FOR STR NO. ASSIGNMENT	
TA-16-1000	16 - 1000		RELOCATED TO TA-18-112	
TA-16-1001	16 - 1001		RELOCATED TO TA-1-288	
TA-16-1002	16 - 1002	MANHOLE	STEAM	S15+00 W50+00
TA-16-1003	16 - 1003	MANHOLE	STEAM	S15+00 W50+00
TA-16-1004	16 - 1004	MANHOLE	STEAM	S15+00 W50+00
TA-16-1005	16 - 1005	MANHOLE	STEAM	S15+00 W50+00
TA-16-1006	16 - 1006	MANHOLE	STEAM	S20+00 W50+00
TA-16-1007	16 - 1007	MANHOLE	STEAM	S20+00 W45+00
TA-16-1008	16 - 1008	MANHOLE	STEAM	S25+00 W45+00
TA-16-1009	16 - 1009	MANHOLE	STEAM	S25+00 W40+00
TA-16-1010	16 - 1010	MANHOLE	STEAM	S25+00 W40+00
TA-16-1011	16 - 1011	MANHOLE	STEAM	S20+00 W35+00
TA-16-1012	16 - 1012	MANHOLE	STEAM	S30+00 W40+00
TA-16-1013	16 - 1013	MANHOLE	STEAM	S30+00 W40+00
TA-16-1014	16 - 1014	MANHOLE	STEAM	S30+00 W35+00
TA-16-1015	16 - 1015	MANHOLE	STEAM	S35+00 W35+00
TA-16-1016	16 - 1016	MANHOLE	STEAM	S35+00 W35+00
TA-16-1017	16 - 1017	MANHOLE	STEAM	S40+00 W30+00
TA-16-1018	16 - 1018	MANHOLE	STEAM	S35+00 W30+00
TA-16-1019	16 - 1019	MANHOLE	STEAM	S35+00 W25+00
TA-16-1020	16 - 1020	MANHOLE	STEAM	S35+00 W20+00
TA-16-1021	16 - 1021	MANHOLE	STEAM	S35+00 W20+00
TA-16-1022	16 - 1022	MANHOLE	STEAM	S35+00 W20+00
TA-16-1023	16 - 1023	MANHOLE	STEAM	S35+00 W20+00
TA-16-1024	16 - 1024	MANHOLE	STEAM	S35+00 W15+00
TA-16-1025	16 - 1025	MANHOLE	STEAM	S35+00 W15+00
TA-16-1026	16 - 1026	MANHOLE	STEAM	S35+00 W10+00
TA-16-1027	16 - 1027	MANHOLE	STEAM	S40+00 W30+00
TA-16-1028	16 - 1028	MANHOLE	STEAM	S40+00 W30+00
TA-16-1029	16 - 1029	MANHOLE	STEAM	S45+00 W30+00
TA-16-1030	16 - 1030	MANHOLE	STEAM	S45+00 W30+00
TA-16-1031	16 - 1031	MANHOLE	STEAM	S50+00 W25+00
TA-16-1032	16 - 1032	MANHOLE	STEAM	S50+00 W25+00
TA-16-1033	16 - 1033	MANHOLE	STEAM	S50+00 W30+00
TA-16-1034	16 - 1034	MANHOLE	STEAM	S55+00 W25+00
TA-16-1035	16 - 1035	MANHOLE	STEAM	S55+00 W25+00
TA-16-1036	16 - 1036	MANHOLE	STEAM	S60+00 W25+00
TA-16-1037	16 - 1037	MANHOLE	STEAM	S60+00 W20+00
TA-16-1038	16 - 1038	MANHOLE	STEAM	S65+00 W15+00
TA-16-1039	16 - 1039	MANHOLE	STEAM	S55+00 W35+00
TA-16-1040	16 - 1040	MANHOLE	STEAM	S55+00 W40+00
TA-16-1041	16 - 1041	MANHOLE	STEAM	S55+00 W40+00
TA-16-1042	16 - 1042	MANHOLE	STEAM	S60+00 W35+00
TA-16-1043	16 - 1043	MANHOLE	STEAM	S60+00 W35+00
TA-16-1044	16 - 1044	MANHOLE	STEAM	S55+00 W40+00
TA-16-1045	16 - 1045	MANHOLE	STEAM	S55+00 W45+00
TA-16-1046	16 - 1046	MANHOLE	STEAM	S55+00 W45+00
TA-16-1047	16 - 1047	MANHOLE	STEAM	S55+00 W45+00
TA-16-1048	16 - 1048	MANHOLE	STEAM	S60+00 W45+00
TA-16-1049	16 - 1049	MANHOLE	STEAM	S55+00 W50+00
TA-16-1050	16 - 1050	MANHOLE	STEAM	S55+00 W50+00
TA-16-1051	16 - 1051	MANHOLE	STEAM	S55+00 W55+00
TA-16-1052	16 - 1052	MANHOLE	STEAM	S55+00 W60+00
TA-16-1053	16 - 1053	MANHOLE	STEAM	S50+00 W65+00
TA-16-1054	16 - 1054	MANHOLE	STEAM	S55+00 W65+00
TA-16-1055	16 - 1055	MANHOLE	STEAM	S55+00 W70+00
TA-16-1056	16 - 1056	MANHOLE	STEAM	S45+00 W65+00
TA-16-1057	16 - 1057	MANHOLE	STEAM	S45+00 W65+00
TA-16-1058	16 - 1058	MANHOLE	STEAM	S40+00 W70+00
TA-16-1059	16 - 1059	MANHOLE	STEAM	S40+00 W70+00
TA-16-1060	16 - 1060	MANHOLE	STEAM	S40+00 W70+00
TA-16-1061	16 - 1061	MANHOLE	STEAM	S40+00 W75+00
TA-16-1062	16 - 1062	MANHOLE	STEAM	S30+00 W70+00
TA-16-1063	16 - 1063	MANHOLE	STEAM	S30+00 W65+00
TA-16-1064	16 - 1064	MANHOLE	STEAM	S30+00 W60+00
TA-16-1065	16 - 1065	MANHOLE	STEAM	S35+00 W65+00
TA-16-1066	16 - 1066	MANHOLE	STEAM	S35+00 W60+00
TA-16-1067	16 - 1067	MANHOLE	STEAM	S40+00 W60+00
TA-16-1068	16 - 1068	MANHOLE	STEAM	S40+00 W65+00
TA-16-1069	16 - 1069	MANHOLE	STEAM	S40+00 W65+00
TA-16-1070	16 - 1070	MANHOLE	STEAM	S30+00 W65+00
TA-16-1071	16 - 1071	MANHOLE	STEAM	S25+00 W65+00
TA-16-1072	16 - 1072	MANHOLE	STEAM	S25+00 W65+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-1073	16 - 1073	MANHOLE	STEAM	S20+00 W60+00
TA-16-1074	16 - 1074	MANHOLE	STEAM	S20+00 W60+00
TA-16-1075	16 - 1075	MANHOLE	STEAM	S20+00 W60+00
TA-16-1076	16 - 1076	MANHOLE	STEAM	S15+00 W55+00
TA-16-1077	16 - 1077	MANHOLE	STEAM	S20+00 W55+00
TA-16-1078	16 - 1078	MANHOLE	STEAM	S20+00 W50+00
TA-16-1079	16 - 1079		REMOVED	
TA-16-1080	16 - 1080	MANHOLE	STEAM	S30+00 W70+00
TA-16-1081	16 - 1081	MANHOLE	STEAM	S40+00 W60+00
TA-16-1082	16 - 1082	MANHOLE	STEAM	S40+00 W60+00
TA-16-1083	16 - 1083	MANHOLE	ABANDONED 1956	S35+00 W60+00
TA-16-1084	16 - 1084		REMOVED	
TA-16-1085	16 - 1085	MANHOLE	STEAM	S50+00 W30+00
TA-16-1086	16 - 1086		REMOVED 1970	
TA-16-1087	16 - 1087		REMOVED 1970	
TA-16-1088	16 - 1088	MANHOLE	STEAM	S55+00 W40+00
TA-16-1089	16 - 1089	MANHOLE	STEAM	S55+00 W30+00
TA-16-1090	16 - 1090		REMOVED 1970	
TA-16-1091	16 - 1091	MANHOLE	STEAM	S45+00 W65+00
TA-16-1092	16 - 1092	MANHOLE	STEAM	S45+00 W65+00
TA-16-1093	16 - 1093	MANHOLE	STEAM	S20+00 W60+00
TA-16-1094	16 - 1094	MANHOLE	STEAM	S20+00 W55+00
TA-16-1095	16 - 1095		UNASSIGNED	
TA-16-1096	16 - 1096		UNASSIGNED	
TA-16-1097	16 - 1097		UNASSIGNED	
TA-16-1098	16 - 1098		UNASSIGNED	
TA-16-1099	16 - 1099	CONDENSATE PUMP	STEAM	S50+00 W30+00
TA-16-1100	16 - 1100	MANHOLE	ABANDONED 1932	S25+00 W35+00
TA-16-1101	16 - 1101		REMOVED 1966	
TA-16-1102	16 - 1102		REMOVED 1966	
TA-16-1103	16 - 1103		REMOVED 1966	
TA-16-1104	16 - 1104		REMOVED	
TA-16-1105	16 - 1105		REMOVED	
TA-16-1106	16 - 1106		REMOVED	
TA-16-1107	16 - 1107		REMOVED	
TA-16-1108	16 - 1108		REMOVED 1956	
TA-16-1109	16 - 1109		REMOVED 1956	
TA-16-1110	16 - 1110		REMOVED 1958	
TA-16-1111	16 - 1111		REMOVED 1968	
TA-16-1112	16 - 1112	MANHOLE	GAS DRIP POT	S45+00 W70+00
TA-16-1113	16 - 1113	MANHOLE	GAS DRIP POT	S40+00 W70+00
TA-16-1114	16 - 1114	MANHOLE	GAS DRIP POT	S40+00 W75+00
TA-16-1115	16 - 1115	MANHOLE	WATER P.R.V.	S45+00 W70+00
TA-16-1116	16 - 1116	MANHOLE	WATER P.R.V.	S25+00 W35+00
TA-16-1117	16 - 1117	MANHOLE	WATER P.R.V.	S35+00 W40+00
TA-16-1118	16 - 1118	MANHOLE	WATER	S40+00 W65+00
TA-16-1119	16 - 1119	MANHOLE	WATER	S25+00 W40+00
TA-16-1120	16 - 1120	MANHOLE	WATER	S65+00 W20+00
TA-16-1121	16 - 1121	MANHOLE	AIR RELIEF VALVE	S30+00 W60+00
TA-16-1122	16 - 1122	MANHOLE	WATER P.R.V.	S55+00 W30+00
TA-16-1123	16 - 1123	MANHOLE	GAS P.R.V.	S65+00 W 5+00
TA-16-1124	16 - 1124	MANHOLE	WATER	S30+00 W75+00
TA-16-1125	16 - 1125	MANHOLE	WATER	S30+00 W75+00
TA-16-1126	16 - 1126	MANHOLE	WATER	S30+00 W65+00
TA-16-1127	16 - 1127	MANHOLE	WATER	S20+00 W55+00
TA-16-1128	16 - 1128	MANHOLE	GAS P.R.V.	S65+00 W 5+00
TA-16-1129	16 - 1129	TROUGH		S25+00 0+00
TA-16-1130	16 - 1130		REMOVED 1949	
TA-16-1131	16 - 1131		REMOVED 1949	
TA-16-1132	16 - 1132		REMOVED 1956	
TA-16-1133	16 - 1133	GUARD HOUSE	RELOCATED TO TA-21-168	
TA-16-1134	16 - 1134	TROUGH	BASKET WASHING FAC.	S25+00 0+00
TA-16-1135	16 - 1135	TROUGH	BASKET WASHING FAC.	S25+00 0+00
TA-16-1136	16 - 1136		REMOVED	
TA-16-1137	16 - 1137		REMOVED	
TA-16-1138	16 - 1138		REMOVED	
TA-16-1139	16 - 1139		REMOVED	

FIGURE 16-9

TA-16 STRUCTURE LOCATION INDEX
(4 OF 5)

REV	DATE	REVISION	BY	CKD	APP
17	9-23-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	HS		

UNCLASSIFIED

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-16
S-SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 9-23-83; SHEET NO 4 of 7; DRAWING NO ENG-R 5111

301215 02 01 B23

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-1140	16 - 1140		REMOVED 1956	
TA-16-1141	16 - 1141		REMOVED 1946	
			CANCELLED	
			CANCELLED	
			CANCELLED	
			CANCELLED	
			CANCELLED	
			CANCELLED	
			CANCELLED	
TA-16-1149	16 - 1149	MANHOLE	WATER, ARV	S45+00 W70+00
TA-16-1150	16 - 1150	INCINERATOR	UNASSIGNED	
TA-16-1151	16 - 1151		"	
TA-16-1152	16 - 1152		"	
TA-16-1153	16 - 1153		"	
TA-16-1154	16 - 1154		"	
TA-16-1155	16 - 1155		"	
TA-16-1156	16 - 1156		"	
TA-16-1157	16 - 1157		"	
TA-16-1158	16 - 1158		"	
TA-16-1159	16 - 1159		"	
TA-16-1160	16 - 1160		"	
TA-16-1161	16 - 1161		"	
TA-16-1162	16 - 1162		"	
TA-16-1163	16 - 1163		"	
TA-16-1164	16 - 1164		"	
TA-16-1165	16 - 1165		"	
TA-16-1166	16 - 1166		"	
TA-16-1167	16 - 1167		"	
TA-16-1168	16 - 1168		"	
TA-16-1169	16 - 1169		"	
TA-16-1170	16 - 1170		"	
TA-16-1171	16 - 1171		"	
TA-16-1172	16 - 1172		"	
TA-16-1173	16 - 1173		"	
TA-16-1174	16 - 1174		"	
TA-16-1175	16 - 1175		"	
TA-16-1176	16 - 1176		"	
TA-16-1177	16 - 1177		"	
TA-16-1178	16 - 1178		"	
TA-16-1179	16 - 1179		"	
TA-16-1180	16 - 1180		"	
TA-16-1181	16 - 1181		"	
TA-16-1182	16 - 1182		"	
TA-16-1183	16 - 1183		"	
TA-16-1184	16 - 1184		"	
TA-16-1185	16 - 1185		"	
TA-16-1186	16 - 1186		"	
TA-16-1187	16 - 1187		"	
TA-16-1188	16 - 1188		"	
TA-16-1189	16 - 1189		"	
TA-16-1190	16 - 1190		"	
TA-16-1191	16 - 1191		"	
TA-16-1192	16 - 1192		"	
TA-16-1193	16 - 1193		"	
TA-16-1194	16 - 1194		"	
TA-16-1195	16 - 1195		"	
TA-16-1196	16 - 1196		"	
TA-16-1197	16 - 1197		"	
TA-16-1198	16 - 1198		"	
TA-16-1199	16 - 1199		"	
TA-16-1200	16 - 1200		"	
TA-16-1201	16 - 1201	MANHOLE	TELEPHONE	S15+00 W45+00
TA-16-1202	16 - 1202	MANHOLE	TELEPHONE	S15+00 W45+00
TA-16-1203	16 - 1203	MANHOLE	TELEPHONE	S15+00 W45+00
TA-16-1204	16 - 1204	JUNCTION BOX	TELEPHONE	S15+00 W50+00
TA-16-1205	16 - 1205	MANHOLE	TELEPHONE	S15+00 W50+00
TA-16-1206	16 - 1206	MANHOLE	TELEPHONE	S10+00 W50+00
TA-16-1207	16 - 1207	MANHOLE	TELEPHONE	S15+00 W50+00
TA-16-1208	16 - 1208	MANHOLE	TELEPHONE	S15+00 W50+00
TA-16-1209	16 - 1209	MANHOLE	TELEPHONE	S15+00 W50+00
TA-16-1210	16 - 1210	MANHOLE	TELEPHONE	S20+00 W50+00
TA-16-1211	16 - 1211	JUNCTION BOX	TELEPHONE	S20+00 W50+00
TA-16-1212	16 - 1212	MANHOLE	TELEPHONE	S15+00 W55+00
TA-16-1213	16 - 1213	MANHOLE	TELEPHONE	S15+00 W55+00
TA-16-1214	16 - 1214	JUNCTION BOX	TELEPHONE	S20+00 W50+00
TA-16-1215	16 - 1215	MANHOLE	TELEPHONE	S20+00 W55+00
TA-16-1216	16 - 1216	JUNCTION BOX	TELEPHONE	S20+00 W60+00
TA-16-1217	16 - 1217	MANHOLE	TELEPHONE	S20+00 W60+00
TA-16-1218	16 - 1218	MANHOLE	TELEPHONE	S25+00 W65+00
TA-16-1219	16 - 1219	MANHOLE	TELEPHONE	S25+00 W65+00
TA-16-1220	16 - 1220	MANHOLE	TELEPHONE	S35+00 W70+00
TA-16-1221	16 - 1221	MANHOLE	TELEPHONE	S30+00 W70+00
TA-16-1222	16 - 1222	MANHOLE	TELEPHONE	S40+00 W65+00
TA-16-1223	16 - 1223	MANHOLE	TELEPHONE	S40+00 W70+00
TA-16-1224	16 - 1224	MANHOLE	TELEPHONE	S40+00 W75+00
TA-16-1225	16 - 1225	MANHOLE	TELEPHONE	S40+00 W65+00
TA-16-1226	16 - 1226	MANHOLE	TELEPHONE	S45+00 W65+00
TA-16-1227	16 - 1227	JUNCTION BOX	TELEPHONE	S45+00 W65+00
TA-16-1228	16 - 1228	JUNCTION BOX	TELEPHONE	S45+00 W65+00
TA-16-1229	16 - 1229	MANHOLE	TELEPHONE	S45+00 W65+00
TA-16-1230	16 - 1230	MANHOLE	TELEPHONE	S45+00 W65+00
TA-16-1231	16 - 1231	MANHOLE	TELEPHONE	S45+00 W70+00
TA-16-1232	16 - 1232	MANHOLE	TELEPHONE	S50+00 W65+00
TA-16-1233	16 - 1233	MANHOLE	TELEPHONE	S55+00 W65+00
TA-16-1234	16 - 1234	MANHOLE	TELEPHONE	S55+00 W70+00
TA-16-1235	16 - 1235	JUNCTION BOX	TELEPHONE	S60+00 W70+00
TA-16-1236	16 - 1236	MANHOLE	TELEPHONE	S55+00 W65+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-1237	16 - 1237	MANHOLE	TELEPHONE	S55+00 W60+00
TA-16-1238	16 - 1238	MANHOLE	TELEPHONE	S55+00 W55+00
TA-16-1239	16 - 1239	MANHOLE	TELEPHONE	S55+00 W55+00
TA-16-1240	16 - 1240	MANHOLE	TELEPHONE	S55+00 W50+00
TA-16-1241	16 - 1241	JUNCTION BOX	TELEPHONE	S55+00 W45+00
TA-16-1242	16 - 1242	MANHOLE	TELEPHONE	S60+00 W45+00
TA-16-1243	16 - 1243	MANHOLE	TELEPHONE	S55+00 W45+00
TA-16-1244	16 - 1244	MANHOLE	TELEPHONE	S55+00 W45+00
TA-16-1245	16 - 1245	MANHOLE	TELEPHONE	S55+00 W40+00
TA-16-1246	16 - 1246	MANHOLE	TELEPHONE	S55+00 W35+00
TA-16-1247	16 - 1247	JUNCTION BOX	TELEPHONE	S55+00 W35+00
TA-16-1248	16 - 1248	MANHOLE	TELEPHONE	S56+00 W35+00
TA-16-1249	16 - 1249	MANHOLE	TELEPHONE	S60+00 W35+00
TA-16-1250	16 - 1250	JUNCTION BOX	TELEPHONE	S60+00 W30+00
TA-16-1251	16 - 1251	MANHOLE	TELEPHONE	S60+00 W30+00
TA-16-1252	16 - 1252	MANHOLE	TELEPHONE	S60+00 W30+00
TA-16-1253	16 - 1253	JUNCTION BOX	TELEPHONE	S60+00 W30+00
TA-16-1254	16 - 1254	JUNCTION BOX	TELEPHONE	S60+00 W35+00
TA-16-1255	16 - 1255	MANHOLE	TELEPHONE	S65+00 W35+00
TA-16-1256	16 - 1256	MANHOLE	TELEPHONE	S65+00 W35+00
TA-16-1257	16 - 1257	MANHOLE	TELEPHONE	S60+00 W35+00
TA-16-1258	16 - 1258	MANHOLE	TELEPHONE	S60+00 W35+00
TA-16-1259	16 - 1259	JUNCTION BOX	TELEPHONE	S55+00 W25+00
TA-16-1260	16 - 1260	MANHOLE	TELEPHONE	S55+00 W25+00
TA-16-1261	16 - 1261	MANHOLE	TELEPHONE	S55+00 W25+00
TA-16-1262	16 - 1262	JUNCTION BOX	TELEPHONE	S55+00 W25+00
TA-16-1263	16 - 1263	MANHOLE	TELEPHONE	S60+00 W25+00
TA-16-1264	16 - 1264	MANHOLE	TELEPHONE	S60+00 W25+00
TA-16-1265	16 - 1265	MANHOLE	TELEPHONE	S60+00 W20+00
TA-16-1266	16 - 1266	MANHOLE	TELEPHONE	S60+00 W20+00
TA-16-1267	16 - 1267	MANHOLE	TELEPHONE	S65+00 W20+00
TA-16-1268	16 - 1268	JUNCTION BOX	TELEPHONE	S65+00 W20+00
TA-16-1269	16 - 1269	MANHOLE	TELEPHONE	S65+00 W15+00
TA-16-1270	16 - 1270	MANHOLE	TELEPHONE	S65+00 W10+00
TA-16-1271	16 - 1271	MANHOLE	TELEPHONE	S65+00 W10+00
TA-16-1272	16 - 1272	MANHOLE	TELEPHONE	S70+00 W 5+00
TA-16-1273	16 - 1273	JUNCTION BOX	TELEPHONE	S70+00 W 5+00
TA-16-1274	16 - 1274	MANHOLE	TELEPHONE	S50+00 W25+00
TA-16-1275	16 - 1275	JUNCTION BOX	TELEPHONE	S50+00 W25+00
TA-16-1276	16 - 1276	MANHOLE	TELEPHONE	S50+00 W25+00
TA-16-1277	16 - 1277	JUNCTION BOX	TELEPHONE	S50+00 W25+00
TA-16-1278	16 - 1278	MANHOLE	TELEPHONE	S50+00 W25+00
TA-16-1279	16 - 1279	MANHOLE	TELEPHONE	S50+00 W25+00
TA-16-1280	16 - 1280	MANHOLE	TELEPHONE	S50+00 W25+00
TA-16-1281	16 - 1281	MANHOLE	TELEPHONE	S45+00 W25+00
TA-16-1282	16 - 1282	JUNCTION BOX	TELEPHONE	S45+00 W25+00
TA-16-1283	16 - 1283	JUNCTION BOX	TELEPHONE	S45+00 W25+00
TA-16-1284	16 - 1284	MANHOLE	TELEPHONE	S45+00 W25+00
TA-16-1285	16 - 1285	MANHOLE	TELEPHONE	S45+00 W30+00
TA-16-1286	16 - 1286	MANHOLE	TELEPHONE	S45+00 W25+00
TA-16-1287	16 - 1287	MANHOLE	TELEPHONE	S40+00 W25+00
TA-16-1288	16 - 1288	JUNCTION BOX	TELEPHONE	S40+00 W30+00
TA-16-1289	16 - 1289	MANHOLE	TELEPHONE	S45+00 W30+00
TA-16-1290	16 - 1290	MANHOLE	TELEPHONE	S45+00 W30+00
TA-16-1291	16 - 1291	JUNCTION BOX	TELEPHONE	S35+00 W25+00
TA-16-1292	16 - 1292	MANHOLE	TELEPHONE	S35+00 W25+00
TA-16-1293	16 - 1293	MANHOLE	TELEPHONE	S35+00 W25+00
TA-16-1294	16 - 1294	JUNCTION BOX	TELEPHONE	S35+00 W25+00
TA-16-1295	16 - 1295	MANHOLE	TELEPHONE	S35+00 W20+00
TA-16-1296	16 - 1296	JUNCTION BOX	TELEPHONE	S35+00 W20+00
TA-16-1297	16 - 1297	MANHOLE	TELEPHONE	S35+00 W20+00
TA-16-1298	16 - 1298	MANHOLE	TELEPHONE	S35+00 W20+00
TA-16-1299	16 - 1299	JUNCTION BOX	TELEPHONE	S35+00 W15+00
TA-16-1300	16 - 1300	MANHOLE	TELEPHONE	S35+00 W15+00
TA-16-1301	16 - 1301	MANHOLE	TELEPHONE	S35+00 W15+00
TA-16-1302	16 - 1302	MANHOLE	TELEPHONE	S35+00 W15+00
TA-16-1303	16 - 1303	JUNCTION BOX	TELEPHONE	S35+00 W10+00
TA-16-1304	16 - 1304	MANHOLE	TELEPHONE	S35+00 W30+00
TA-16-1305	16 - 1305	MANHOLE	TELEPHONE	S40+00 W30+00
TA-16-1306	16 - 1306	JUNCTION BOX	TELEPHONE	S40+00 W30+00
TA-16-1307	16 - 1307	MANHOLE	TELEPHONE	S40+00 W35+00
TA-16-1308	16 - 1308	MANHOLE	TELEPHONE	S40+00 W35+00
TA-16-1309	16 - 1309	JUNCTION BOX	TELEPHONE	S35+00 W35+00
TA-16-1310	16 - 1310	MANHOLE	TELEPHONE	S35+00 W35+00
TA-16-1311	16 - 1311	MANHOLE	TELEPHONE	S30+00 W30+00
TA-16-1312	16 - 1312	MANHOLE	TELEPHONE	S30+00 W25+00
TA-16-1313	16 - 1313	JUNCTION BOX	TELEPHONE	S30+00 W40+00
TA-16-1314	16 - 1314	MANHOLE	TELEPHONE	S30+00 W40+00
TA-16-1315	16 - 1315	MANHOLE	TELEPHONE	S30+00 W40+00
TA-16-1316	16 - 1316	MANHOLE	TELEPHONE	S35+00 W40+00
TA-16-1317	16 - 1317	MANHOLE	TELEPHONE	S30+00 W35+00
TA-16-1318	16 - 1318	MANHOLE	TELEPHONE	S30+00 W35+00
TA-16-1319	16 - 1319	MANHOLE	TELEPHONE	S30+00 W40+00
TA-16-1320	16 - 1320	MANHOLE	TELEPHONE	S25+00 W40+00
TA-16-1321	16 - 1321	MANHOLE	TELEPHONE	S25+00 W40+00
TA-16-1322	16 - 1322	MANHOLE	TELEPHONE	S25+00 W45+00
TA-16-1323	16 - 1323	MANHOLE	TELEPHONE	S20+00 W50+00
TA-16-1324	16 - 1324	MANHOLE	TELEPHONE	S20+00 W50+00
TA-16-1325	16 - 1325	JUNCTION BOX	TELEPHONE	S20+00 W45+00
TA-16-1326	16 - 1326	MANHOLE	TELEPHONE	S20+00 W45+00
TA-16-1327	16 - 1327	MANHOLE	TELEPHONE	S20+00 W45+00
TA-16-1328	16 - 1328	MANHOLE	TELEPHONE	S20+00 W45+00
TA-16-1329	16 - 1329		CANCELLED	
TA-16-1330	16 - 1330	CAPACITOR STATION		S30+00 W50+00
TA-16-1331	16 - 1331	VALVE HOUSE	NOT SHOWN	
TA-16-1332	16 - 1332	VALVE HOUSE	NOT SHOWN	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-16-1334	16 - 1334	TRANSFORMER STATION	NOT SHOWN	
TA-16-1335	16 - 1335	TRANSFORMER STATION	NOT SHOWN	
TA-16-1337	16 - 1337	MANHOLE, STEAM	NOT SHOWN	
TA-16-1338	16 - 1338	MANHOLE, STEAM	NOT SHOWN	
TA-16-1339	16 - 1339	MANHOLE, SEWER	NOT SHOWN	
TA-16-1340	16 - 1340	WIND TUNNEL	NOT SHOWN	
TA-16-1341	16 - 1341	TANK, FUEL U.G	NOT SHOWN	
TA-16-1342	16 - 1342	TANK, FUEL U.G	NOT SHOWN	
TA-16-1343	16 - 1343	VALVE PIT	NOT SHOWN	

DRAFT

UNCLASSIFIED

FIGURE 16-9

TA-16 STRUCTURE LOCATION INDEX (5 OF 5)

REV	DATE	REVISION	BY	CKD	APP
18	9-23-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	IHS	[illegible]	[illegible]

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-16 S-SITE

SEC CLASSIFICATION — CLASS. 4 — REVIEWER [signature] — DATE [illegible]

SUBMITTED [signature] — RECOMMENDED [signature] — APPROVED [signature]

DRAWN [signature] — CHECKED [signature] — DATE 9-23-83 — SHEET NO. 3 of 7 — DRAWING NO. ENG-R 5111

301215 02 01 B56

STRUCTURE NUMBER	DESIG-NATION	REMARKS & FORMER DESIGNATION		GRID
TA-16-1	16-1	ADMINISTRATION BUILDING		S40-W65
TA-16-2	16-2	OFFICE		S40-W60
TA-16-3	16-3	ZIA ELEC BLDG		S35-W60
TA-16-4	16-4	INFLAMMABLE STOCK STORAGE		S35-W60
TA-16-5	16-5	INSTRUMENT SHOP		S35-W60
TA-16-6	16-6	ZIA REPAIR SHOP		S35-W60
TA-16-7	16-7	STEAM PLANT & MACHINE SHOP		S35-W65
TA-16-8	16-8	ZIA CABINET SHOP		S35-W65
TA-16-9	16-9	MOTOR POOL DISPATCH OFFICE		S35-W60
TA-16-10	16-10	WAREHOUSE		S35-W60
TA-16-11	16-11	OBSOLETE STORAGE	S-100	S35-W60
TA-16-12	16-12	WAREHOUSE	S-10E	S35-W60
TA-16-13	16-13	DOCK	S-10F	S35-W60
TA-16-14	16-14	GUARD HOUSE (STATION 812)		S40-W60
TA-16-15	16-15	LAUNDRY & LOCKER RM	S-12	S40-W65
TA-16-16	16-16	CAFETERIA	S-13	S35-W65
TA-16-17	16-17	PLUMBING SHOP	S-14	S35 W60
TA-16-18	16-18	STEAM WASHING HOUSE	S-15	S40-W60
TA-16-19	16-19	PUMP HOUSE	S-16	S35-W65
TA-16-20	16-20	WATER PUMP PIT	S-17	S35-W65
TA-16-21	16-21	PUMPING STATION	S-17 A	S40-W65
TA-16-22	16-22	OFFICE	S-18	S35-W65
TA-16-23	16-23	STORAGE (REMOVED)	S-19	
TA-16-24	16-24	ANALYTICAL LAB	S-20	S35-W55
TA-16-25	16-25	PROCESS BLDG	S-23	S35-W55
TA-16-26	16-26	PROCESS BLDG	S-24	S35-W55
TA-16-27	16-27	MELT & CAST	S-25 & 25E	S35-W50
TA-16-28	16-28	WATER COOLING TOWER	S-25T	S35-W50
TA-16-29	16-29	FUEL OIL TANK		S35-W65
TA-16-30	16-30	STORES	S-28A	S30-W50
TA-16-31	16-31	MACH BUILDING	S-28B	S30-W50
TA-16-32	16-32	MACH BUILDING	S-28C	S30-W50
TA-16-33	16-33	MACH BUILDING	S-28D	S30-W50
TA-16-34	16-34	STORES	S-28E	S35-W45
TA-16-35	16-35	EQUIPMENT ROOM	S-28F	S30-W50
TA-16-36	16-36	STEAM CLEANING	S-27E	S50-W50
TA-16-37	16-37	EXPLOSIVE TESTING	S-27	S50-W50
TA-16-38	16-38	EXPERIMENTAL CASTING	S-28	S45-W60
TA-16-39	16-39	RADIO-GRAPHIC BLDG	S-29	S25-W50
TA-16-40	16-40	RADIO-GRAPHIC BLDG	S-29B	S25-W55
TA-16-41	16-41	PROCESS LAB	S-30	S40-W55
TA-16-42	16-42	PROCESS BLDG	S-31	S40-W55
TA-16-43	16-43	PROCESS BLDG	S-32	S40-W55
TA-16-44	16-44	PROCESS BLDG	S-33	S40-W55
TA-16-45	16-45	PROCESS BLDG	S-34	S45-W55
TA-16-46	16-46	PROCESS BLDG	S-35	S40-W55
TA-16-47	16-47	EQUIPMENT	S-35E	S40-W50
TA-16-48	16-48	SMOKING ROOM	S-36	S45-W55
TA-16-49	16-49	ANALYTICAL LAB	S-41	S50-W55
TA-16-50	16-50	EXPERIMENTAL CASTING	S-42	S50-W55
TA-16-51	16-51	STEAM CLEANING	S-42A	S50-W55
TA-16-52	16-52	EXPLOSIVE MAT'L	S-43	S50-W55
TA-16-53	16-53	OPTICAL EQUIP STORAGE	S-44	S45-W55
TA-16-54	16-54	PROCESS BLDG	S-45	S30-W60
TA-16-55	16-55	GRINDING BLDG	S-45A	S45-W55
TA-16-56	16-56	TESTING LAB	S-46	S55-W55
TA-16-57	16-57	STORES	S-56	S45-W60
TA-16-58	16-58	STORES	S-57	S50-W40
TA-16-59	16-59	STORES	S-58	S55-W45
TA-16-60	16-60	STORES (REMOVED)	S-59	
TA-16-61	16-61	STORES	S-60	S45-W45
TA-16-62	16-62	STORES	S-66	S30-W70
TA-16-63	16-63	STORES	S-67	S35-W70
TA-16-64	16-64	STORES (REMOVED)	S-68	
TA-16-65	16-65	STORES	S-69	S40-W75
TA-16-66	16-66	STORES	S-70	S45-W45
TA-16-67	16-67	STORES	S-71	S50-W50
TA-16-68	16-68	STORES	S-72	S55-W60
TA-16-69	16-69	STORES	S-73	S45-W55
TA-16-70	16-70	STORES	S-74	S50-W55
TA-16-71	16-71	STORES	S-75	S50-W55
TA-16-72	16-72	STORES	S-76	S40-W50
TA-16-73	16-73	STORES	S-77	S35-W50
TA-16-74	16-74	STORES	S-78	S30-W50
TA-16-75	16-75	PERSONNEL SHELTER	S-80	S50-W60
TA-16-76	16-76	PERSONNEL SHELTER	S-81	S45-W55
TA-16-77	16-77	PERSONNEL SHELTER	S-82	S45-W55
TA-16-78	16-78	PERSONNEL SHELTER	S-83	S35-W55
TA-16-79	16-79	SMOKING ROOM	S-84	S35-W50
TA-16-80	16-80	STORAGE	S-85	S30-W50
TA-16-81	16-81	PROCESS BLDG & FAN RM	S-90	S45-W50
TA-16-82	16-82	STORAGE	S-91	S50-W55
TA-16-83	16-83	LABORATORY	S-92	S45-W45
TA-16-84	16-84	STORES	S-93	S45-W45
TA-16-85	16-85	WAREHOUSE (DESTROYED)	S-94	
TA-16-86	16-86	LABORATORY	S-95	S45-W50
TA-16-87	16-87	MACH SHOP TRAILER	S-95A	S50-W55
TA-16-88	16-88	CASTING REST HOUSE	S-100	S30-W50
TA-16-89	16-89	PROCESS BLDG	S-104	S30-W45
TA-16-90	16-90	PROCESS BLDG	S-102	S30-W45
TA-16-91	16-91	PROCESS BLDG	S-105	S25-W50
TA-16-92	16-92	INSPECT BLDG	S-101	S25-W50
TA-16-93	16-93	PROCESS BLDG	S-103	S25-W50
TA-16-94	16-94	EQUIP & CONTROL	S-106	S35-W45
TA-16-95	16-95	MACH BLDG	S-106N	S35-W45
TA-16-96	16-96	MACH BLDG	S-106E	S35-W45
TA-16-97	16-97	MACH BLDG	S-106S	S35-W45
TA-16-98	16-98	MACH BLDG	S-106W	S35-W45
TA-16-99	16-99	PROCESS BLDG	S-107	S30-W45
TA-16-100	16-100	PROCESS BLDG	S-108	S45-W45
TA-16-101	16-101	GUARD HOUSE (STATION 535)		S60-W35
TA-16-102	16-102	PASSAGEWAY (25 TO 26)		S35-W55
TA-16-103	16-103	PASSAGEWAY (26 TO 27)		S35-W55
TA-16-104	16-104	PASSAGEWAY (42 TO 45)		S40-W55
TA-16-105	16-105	PASSAGEWAY (24 TO 103)		S35-W55
TA-16-106	16-106	STORAGE (REMOVED)	A-1	
TA-16-107	16-107	STORAGE (REMOVED)	A-2	
TA-16-108	16-108	STORAGE (REMOVED)	A-3	
TA-16-109	16-109	STORAGE (REMOVED)	A-4	
TA-16-110	16-110	BARRICADE		S30-W20
TA-16-111	16-111	BARRICADE		S30-W50
TA-16-112	16-112	BARRICADE		S30-W40
TA-16-113	16-113	BARRICADE	S-118	S45-W60
TA-16-114	16-114	"	S-119	S40-W55
TA-16-115	16-115	"	S-120	S40-W55
TA-16-116	16-116	"	S-121	S40-W55
TA-16-117	16-117	" (REMOVED)	S-122	
TA-16-118	16-118	" (REMOVED)	S-123	
TA-16-119	16-119	" (REMOVED)	S-124	
TA-16-120	16-120	"	S-125	S35-W55
TA-16-121	16-121	"	S-126	S35-W50
TA-16-122	16-122	"	S-127	S45-W55

STRUCTURE NUMBER	DESIG-NATION	REMARKS & FORMER DESIGNATION		GRID
TA-16-123	16-123	BARRICADE	S-124	S25-W55
TA-16-124	16-124	" (REMOVED)	S-129	
TA-16-125	16-125	"	S-130	S35-W45
TA-16-126	16-126	"	S-131	S35-W45
TA-16-127	16-127	"	S-132	S35-W45
TA-16-128	16-128	"	S-133	S35-W45
TA-16-129	16-129	"	S-134	S35-W45
TA-16-130	16-130	GUARD HOUSE (RELOCATED AS 16-165)		S30-W75
TA-16-131	16-131	GUARD HOUSE (STATION 625)	S-136	S15-W40
TA-16-132	16-132	PAINT SHOP	S-137	S20-W60
TA-16-133	16-133	LUMBER STORAGE	S-138	S25-W60
TA-16-134	16-134	MESS HALL	S-139	S20-W60
TA-16-135	16-135	STORAGE BLDG (REMOVED)	S-140	S20-W60
TA-16-136	16-136	IMPLEMENT SHED	S-141	S20-W60
TA-16-137	16-137	PLUMBING & ELEC SHOP	S-142	S20-W60
TA-16-138	16-138	BLACKSMITH SHOP	S-143	S25-W60
TA-16-139	16-139	STORAGE BLDG	S-144	S25-W60
TA-16-140	16-140	STORAGE BLDG (REMOVED)	S-145	S25-W60
TA-16-141	16-141	STORAGE BLDG (REMOVED)	S-146	S25-W60
TA-16-142	16-142	FIRE HOUSE	S-147	S25-W60
TA-16-143	16-143	HOSE HOUSE	S-148	S25-W60
TA-16-144	16-144	EQUIPMENT RM	S-149	S25-W60
TA-16-145	16-145	LATRINE	S-150	S25-W60
TA-16-146	16-146	PORTABLE STORAGE (REMOVED)	S-151	S25-W60
TA-16-147	16-147	ROAD BLOCK		S35-W45
TA-16-148	16-148	SOLVENT BLDG		S35-W55
TA-16-149	16-149	GUARD BLDG (REMOVED)		
TA-16-150	16-150	HOSE HOUSE		S35-W55
TA-16-151	16-151	" "		S40-W60
TA-16-152	16-152	" "		S30-W50
TA-16-153	16-153	BARRICADE		S30-W45
TA-16-154	16-154	"		S30-W45
TA-16-155	16-155	"		S25-W50
TA-16-156	16-156	"		S25-W50
TA-16-157	16-157	"		S25-W50
TA-16-158	16-158	"		S25-W55
TA-16-159	16-159	"		S25-W55
TA-16-160	16-160	ROAD BLOCK		S30-W50
TA-16-161	16-161	SEPTIC TANK		S50-W70
TA-16-162	16-162	LATRINE		S25-W45
TA-16-163	16-163	BARRICADE		S25-W45
TA-16-164	16-164	STORAGE BLDG		S30-W55
TA-16-165	16-165	GUARD HOUSE (STATION 639)		S30-W75
TA-16-166	16-166	PASSAGEWAY (50 TO 52)		S50-W55
TA-16-167	16-167	HOSE HOUSE		S50-W55
TA-16-168	16-168	MANHOLE (REMOVED)		
TA-16-169	16-169	STORAGE TANK		S25-W75
TA-16-170	16-170	STORAGE TANK		S25-W75
TA-16-171	16-171	WATER TANK		S30-W75
TA-16-172	16-172	STORAGE TANK		S25-W75
TA-16-173	16-173	SEPTIC TANK		S25-W45
TA-16-174	16-174	SEPTIC TANK		S25-W60
TA-16-175	16-175	SEPTIC TANK		S30-W60
TA-16-175	16-176	SEPTIC TANK		S45-W55
TA-16-177	16-177	SEPTIC TANK		S25-W50
TA-16-178	16-178	SEPTIC TANK		S15-W55
TA-16-179	16-179	SEPTIC TANK		S45-W50
TA-16-180	16-180	FIRE STATION		S50-W70
TA-16-181	16-181	TANK HOUSING		S35-W65
TA-16-182	16-182	DIESEL UNIT BLDG		S35-W65
TA-16-183	16-183	DRUM STORAGE		S30-W55
TA-16-184	16-184	DRUM STORAGE		S40-W60
TA-16-185	16-185	DRUM STORAGE		S35-W50
TA-16-186	16-186	DRUM STORAGE		S30-W50
TA-16-187	16-187	DRUM STORAGE		S20-W45
TA-16-188	16-188	DRUM STORAGE		S50-W55
TA-16-189	16-189	COOLING TOWER		[illegible]-W55
TA-16-190	16-190	DRUM STORAGE		S25-W60
TA-16-191	16-191	SOLVENT STORAGE		[illegible]-W55
TA-16-192	16-192	GUARD HOUSE (STATION 810 & 81		[illegible]-W75
TA-16-193	16-193	CHANGE HOUSE		[illegible]-W70
TA-16-194	16-194	RESERVE		
TA-16-195	16-195	SERVICE STATION		S40-W70
TA-16-196	16-196	UNDERGROUND TANK		S40-W70
TA-16-197	16-197	UNDERGROUND TANK		S40-W70
TA-16-198	16-198	HOSE HOUSE		S20-W60
TA-16-199	16-199	RESERVE		
TA-16-200	16-200	ADMINISTRATION BLDG		S40-W75
TA-16-201	16-201	RESERVE		
TA-16-202	16-202	SHOPS BLDG		S45-W70
TA-16-203	16-203	LUMBER STORAGE		S45-W70
TA-16-204	16-204	RESERVE		
TA-16-205	16-205	"		
TA-16-206	16-206	PAINT & BOTTLE STORAGE		S40-W70
TA-16-207	16-207	WAREHOUSE		S40-W70
TA-16-208	16-208	SOLVENT STORAGE		S40-W70
TA-16-209	16-209	GUARD HOUSE (STATION 612)		S40-W70
TA-16-210	16-210	GUARD HOUSE (STATION 620)		S15-W55
TA-16-211	16-211	ROAD BLOCK		S15-W55
TA-16-212	16-212	ROAD BLOCK		S15-W55
TA-16-213	16-213	RESERVE		
TA-16-214	16-214	"		
TA-16-215	16-215	"		
TA-16-216	16-216	"		
TA-16-217	16-217	"		
TA-16-218	16-218	"		
TA-16-219	16-219	"		
TA-16-220	16-220	X-RAY BLDG	131-1	S20-W55
TA-16-221	16-221	REST HOUSE	131-A	S15-W55
TA-16-222	16-222	DARK ROOM BLDG	131-2	S15-W50
TA-16-223	16-223	REST HOUSE	131-B	S15-W50
TA-16-224	16-224	X-RAY BLDG	131-4	S20-W50
TA-16-225	16-225	REST HOUSE	131-C	S20-W45
TA-16-226	16-226	X-RAY BLDG	131-3	S15-W45
TA-16-227	16-227	RESERVE		
TA-16-228	16-228	"		
TA-16-229	16-229	"		
TA-16-230	16-230	PASSAGEWAY		S15-W45
TA-16-231	16-231	PASSAGEWAY		S15-W50
TA-16-232	16-232	PASSAGEWAY		S20-W45
TA-16-233	16-233	PASSAGEWAY		S15-W50
TA-16-234	16-234	PASSAGEWAY		S15-W55
TA-16-235	16-235	PASSAGEWAY		S15-W50
TA-16-236	16-236	PASSAGEWAY		S20-W50
TA-16-237	16-237	PASSAGEWAY		S20-W50
TA-16-238	16-238	PASSAGEWAY		S15-W50
TA-16-239	16-239	PASSAGEWAY		S15-W55
TA-16-240	16-240	RESERVE		
TA-16-241	16-241	"		
TA-16-242	16-242	"		
TA-16-243	16-243	"		
TA-16-244	16-244	"		

STRUCTURE NUMBER	DESIG-NATION	REMARKS & FORMER DESIGNATION		GRID
TA-16-245	16-245	RESERVE - 131 GROUP		
TA-16-246	16-246	"		
TA-16-247	16-247	"		
TA-16-248	16-248	"		
TA-16-249	16-249	"		
TA-16-250	16-250	"		
TA-16-251	16-251	"		
TA-16-252	16-252	"		
TA-16-253	16-253	"		
TA-16-254	16-254	"		
TA-16-255	16-255	"		
TA-16-256	16-256	"		
TA-16-257	16-257	"		
TA-16-258	16-258	"		
TA-16-259	16-259	"		
TA-16-260	16-260	PROCESS BLDG	132-1	S20-W35
TA-16-261	16-261	REST HOUSE	132-A	S20-W40
TA-16-262	16-262	COOLING TOWER		S20-W35
TA-16-263	16-263	REST HOUSE	132-B	S20-W35
TA-16-264	16-264	RESERVE		
TA-16-265	16-265	REST HOUSE	132-C	S25-W35
TA-16-266	16-266	RESERVE		
TA-16-267	16-267	REST HOUSE	132-D	S20-W35
TA-16-268	16-268	PASSAGEWAY		S20-W35
TA-16-269	16-269	PASSAGEWAY		S20-W35
TA-16-270	16-270	PASSAGEWAY		S25-W35
TA-16-271	16-271	PASSAGEWAY		S25-W30
TA-16-272	16-272	SEPTIC TANK		S15-W35
TA-16-273	16-273	DOSING CHAMBER		S20-W35
TA-16-274	16-274	DISTRIBUTION BOX		S20-W35
TA-16-275	16-275	RESERVE		
TA-16-276	16-276	"		
TA-16-277	16-277	"		
TA-16-278	16-278	"		
TA-16-279	16-279	"		
TA-16-280	16-280	INSPECTION BLDG	33-1	S30-W40
TA-16-281	16-281	REST HOUSE	33-A	S30-W40
TA-16-282	16-282	PASSAGEWAY		S30-W40
TA-16-283	16-283	REST HOUSE	33-B	S30-W35
TA-16-284	16-284	PASSAGEWAY		S30-W40
TA-16-285	16-285	REST HOUSE	33-C	S35-W40
TA-16-286	16-286	COFFEE HOUSE		S30-W40
TA-16-287	16-287	PASSAGEWAY		S30-W40
TA-16-288	16-288	PASSAGEWAY		S35-W40
TA-16-289	16-289	RESERVE		
TA-16-290	16-290	"		
TA-16-291	16-291	"		
TA-16-292	16-292	"		
TA-16-293	16-293	"		
TA-16-294	16-294	"		
TA-16-295	16-295	"		
TA-16-296	16-296	"		
TA-16-297	16-297	"		
TA-16-298	16-298	"		
TA-16-299	16-299			
TA-16-300	16-300	PROCESS BLDG	34-1	S35-W30
TA-16-301	16-301	REST HOUSE	34-A	S40-W35
TA-16-302	16-302	PROCESS BLDG	34-2	S40-W30
TA-16-303	16-303	REST HOUSE	34-B	S45-W30
TA-16-304	16-304	PROCESS BLDG	34-3	S45-W25
TA-16-305	16-305	REST HOUSE	34-C	S45-W30
TA-16-306	16-306	PROCESS BLDG	34-4	S45-W25
TA-16-307	16-307	REST HOUSE	34-D	S50-W25
TA-16-308	16-308	DRYING BLDG	34-5	S25-W35
TA-16-309	16-309	PASSAGEWAY		S35-W30
TA-16-310	16-310	PASSAGEWAY		S40-W35
TA-16-311	16-311	PASSAGEWAY		S40-W30
TA-16-312	16-312	PASSAGEWAY		S45-W30
TA-16-313	16-313	PASSAGEWAY		S40-W30
TA-16-314	16-314	PASSAGEWAY		S45-W30
TA-16-315	16-315	PASSAGEWAY		S45-W30
TA-16-316	16-316	PASSAGEWAY		S50-W25
TA-16-317	16-317	PASSAGEWAY		S45-W25
TA-16-318	16-318	PASSAGEWAY		S45-W30
TA-16-319	16-319	COFFEE HOUSE		S40-W20
TA-16-320	16-320	RESERVE		
TA-16-321	16-321	"		
TA-16-322	16-322	"		
TA-16-323	16-323	"		
TA-16-324	16-324	"		
TA-16-325	16-325	"		
TA-16-326	16-326	"		
TA-16-327	16-327	"		
TA-16-328	16-328	"		
TA-16-329	16-329	"		
TA-16-330	16-330	"		
TA-16-331	16-331	"		
TA-16-332	16-332	"		
TA-16-333	16-333	"		
TA-16-334	16-334	"		
TA-16-335	16-335	"		
TA-16-336	16-336	"		
TA-16-337	16-337	"		
TA-16-338	16-338	"		
TA-16-339	16-339	"		
TA-16-340	16-340	GRINDING BLDG	140-1	S35-W15
TA-16-341	16-341	REST HOUSE	140-A	S35-W20
TA-16-342	16-342	BLENDING BLDG	140-2	S30-W20
TA-16-343	16-343	REST HOUSE	140-B	S35-W20
TA-16-344	16-344	DRUM STORAGE		S40-W15
TA-16-345	16-345	REST HOUSE	140-C	S40-W15
TA-16-346	16-346	ROAD BLOCK		S35-W15
TA-16-347	16-347	ROAD BLOCK		S20-W15
TA-16-348	16-348	ROAD BLOCK		S30-W20
TA-16-349	16-349	ROAD BLOCK		S20-W20
TA-16-350	16-350	PASSAGEWAY		S35-W20
TA-16-351	16-351	PASSAGEWAY		S25-W15
TA-16-352	16-352	PASSAGEWAY		S35-W15
TA-16-353	16-353	PASSAGEWAY		S30-W20
TA-16-354	16-354	PASSAGEWAY		[illegible]-W15
TA-16-355	16-355	RESERVE		
TA-16-356	16-356	"		
TA-16-357	16-357	"		
TA-16-358	16-358	"		
TA-16-359	16-359	"		
TA-16-360	16-360	PAINTING & BOXING BLDG	139-1	S55-[illegible]
TA-16-361	16-361	RESERVE		
TA-16-362	16-362	"		
TA-16-363	16-363	"		
TA-16-364	16-364	"		
TA-16-365	16-365	"		
TA-16-366	16-366	"		

STRUCTURE NUMBER	DESIG-NATION	REMARKS & FORMER DESIGNATION		GRID
TA-16-367	16-367	RESERVE - 139 GROUP		
TA-16-368	16-368	"		
TA-16-369	16-369	"		
TA-16-370	16-370	PREPARATION BLDG	136-1	S65-W15
TA-16-371	16-371	SEPTIC TANK		S65-W20
TA-16-372	16-372	COOLING TOWER		S65-W20
TA-16-373	16-373	RESERVE		
TA-16-374	16-374	"		
TA-16-375	16-375	"		
TA-16-376	16-376	"		
TA-16-377	16-377	"		
TA-16-378	16-378	"		
TA-16-379	16-379	"		
TA-16-380	16-380	PREPARATION BLDG	137-1	S70-W 5
TA-16-381	16-381	SEPTIC TANK		S70-W 5
TA-16-382	16-382	RESERVE		
TA-16-383	16-383	"		
TA-16-384	16-384	"		
TA-16-385	16-385	"		
TA-16-386	16-386	"		
TA-16-387	16-387	"		
TA-16-388	16-388	"		
TA-16-389	16-389	"		
TA-16-390	16-390	B.W. FACILITIES		S25- 0
TA-16-391	16-391	U.G. TANK		S25- 0
TA-16-392	16-392	FILTER BED		S25- 0
TA-16-393	16-393	FILTER BED		S25- 0
TA-16-394	16-394	FILTER BED		S25- 0
TA-16-395	16-395	BARRICADE		S25-W 5
TA-16-396	16-396	LATRINE		S25- 0
TA-16-397	16-397	ROAD BLOCK		S25-W 5
TA-16-398	16-398	MANHOLE		S25-W 5
TA-16-399	16-399	BURNING SLAB		S20-W 5
TA-16-400	16-400	TRUCK WASHING BLDG	144-1	S45-W 5
TA-16-401	16-401	RESERVE		
TA-16-402	16-402	"		
TA-16-403	16-403	"		
TA-16-404	16-404	"		
TA-16-405	16-405	"		
TA-16-406	16-406	"		
TA-16-407	16-407	"		
TA-16-408	16-408	"		
TA-16-409	16-409	"		
TA-16-410	16-410	ASSEMBLY BLDG	143-1	S55-W30
TA-16-411	16-411	REST HOUSE	143-C	S60-W35
TA-16-412	16-412	RESERVE		
TA-16-413	16-413	REST HOUSE	143-A	S60-W35
TA-16-414	16-414	MATERIAL SHED		S60-W35
TA-16-415	16-415	REST HOUSE	143-B	S60-W30
TA-16-416	16-416	PASSAGEWAY		S60-W30
TA-16-417	16-417	RESERVE		
TA-16-418	16-418	PASSAGEWAY		S60-W30
TA-16-419	16-419	PASSAGEWAY		S65-W30
TA-16-420	16-420	SEPTIC TANK		S60-W35
TA-16-421	16-421	RESERVE		
TA-16-422	16-422	"		
TA-16-423	16-423	"		
TA-16-424	16-424	"		
TA-16-425	16-425	"		
TA-16-425	16-426	"		
TA-16-427	16-427	"		
TA-16-428	16-428	"		
TA-16-429	16-429	"		
TA-16-430	16-430	PRESSING BLDG	138-1	S60-W45
TA-16-431	16-431	SEPTIC TANK		S80-W50
TA-16-432	16-432	RESERVE		
TA-16-433	16-433	"		
TA-16-434	16-434	"		
TA-16-435	16-435	REST HOUSE	138-B	S55-W45
TA-16-436	16-436	RESERVE		
TA-16-437	16-437	REST HOUSE	138-A	S50-W45
TA-16-438	16-438	RESERVE		
TA-16-439	16-439	"		
TA-16-440	16-440	"		
TA-16-441	16-441	"		
TA-16-442	16-442	PASSAGEWAY		S55-W45
TA-16-443	16-443	PASSAGEWAY		S60-W45
TA-16-444	16-444	PASSAGEWAY		S50-W45
TA-16-445	16-445	RESERVE		
TA-16-446	16-446	"		
TA-16-447	16-447	"		
TA-16-448	16-448	"		
TA-16-449	16-449	"		
TA-16-450	16-450	ELECTROPLATING BLDG	142-1	S55-W70
TA-16-451	16-451	RESERVE		
TA-16-452	16-452	"		
TA-16-453	16-453	"		
TA-16-454	16-454	"		
TA-16-455	16-455	"		
TA-16-456	16-456	"		
TA-16-457	16-457	"		
TA-16-458	16-458	"		
TA-16-459	16-459	"		
TA-16-460	16-460	LABORATORY BLDG	141-1	S45-W65
TA-16-461	16-461	RESERVE		
TA-16-462	16-462	STORAGE BLDG	141-2	S45-W65
TA-16-463	16-463	RESERVE		
TA-16-464	16-464	STORES	141-A	S45-W65
TA-16-465	16-465	RESERVE		
TA-16-466	16-466	"		
TA-16-467	16-467	"		
TA-16-468	16-468	"		
TA-16-469	16-469	"		
TA-16-470	16-470	"		
TA-16-471	16-471	"		
TA-16-472	16-472	"		
TA-16-473	16-473	"		
TA-16-474	16-474	"		

STRUCTURE NUMBER	DESIG-NATION	REMARKS & FORMER DESIGNATION		GRID
TA-16-475	16-475	OFFICE & SHOP BLDG (REMOVED)	P-1	
TA-16-476	16-476	LABORATORY BLDG	P-2	S35-W10
TA-16-477	16-477	LABORATORY BLDG	P-3	S35-W10
TA-16-478	16-478	LAB & MACH TEST BLDG	P-4	S35-W10
TA-16-479	16-479	STORAGE BLDG (REMOVED)	P-5	
TA-16-480	16-480	EXPERIMENTAL CHAMBER "	P-6	
TA-16-481	16-481	STORES "	P-7	
TA-16-482	16-482	STORAGE BLDG "	P-8	
TA-16-483	16-483	BARRICADE "	P-9	
TA-16-484	16-484	MANHOLE	P-10	S35-W10
TA-16-485	16-485	ROAD BLOCK	P-11	S35-W10
TA-16-486	16-486	SEPTIC TANK (REMOVED)	P-12	
TA-16-487	16-487	TRANSFORMER STATION "	P-13	
TA-16-488	16-488	STORES "	P-14	
TA-16-489	16-489	CHARGE STATION	P-15	S35-W10
TA-16-490	16-490	LABORATORY BLDG	T-1	S25-W55
TA-16-491	16-491	HUTMENT	T-2	S25-W55
TA-16-492	16-492	HUTMENT	T-3	S25-W55
TA-16-493	16-493	STORES	T-4	S25-W55
TA-16-494	16-494	STORES	T-5	S25-W55
TA-16-495	16-495	HUTMENT	T-6	S20-W55
TA-16-496	16-496	HUTMENT	T-7	S25-W55
TA-16-497	16-497	STORES	T-8	S25-W50
TA-16-498	16-498	HUTMENT	T-9	S25-W55
TA-16-499	16-499	HUTMENT	T-10	S20-W50
TA-16-500	16-500	HUTMENT	T-11	S20-W55
TA-16-501	16-501	GUARD HOUSE (REMOVED)	T-12	
TA-16-502	16-502	STEAM PLANT	T-13	S25-W55
TA-16-503	16-503	RADIATION BARRICADE	T-14	S25-W55
TA-16-504	16-504	SEPTIC TANK	T-15	S25-W55
TA-16-505	16-505	PASSAGEWAY 490 TO 495	T-16	S25-W55
TA-16-506	16-506	MANHOLE	T-17	S25-W55
TA-16-507	16-507	SUMP	T-18	S25-W55
TA-16-508	16-508	MANHOLE	T-19	S25-W55
TA-16-509	16-509	MANHOLE (STEAM)	T-20	S25-W55
TA-16-510	16-510	SWITCH BOX	T-21	S25-W55
TA-16-511	16-511	MANHOLE (STEAM)	T-26	S25-W55
TA-16-512	16-512	U.G. OIL STORAGE TANK	T-27	S25-W60
TA-16-513	16-513	ROAD BLOCK	T-28	S25-W55
TA-16-514	16-514	RESERVE		
TA-16-515	16-515	LABORATORY & OFFICE BLDG	V-1 & 2	S35-W45
TA-16-516	16-516	LABORATORY BLDG	V-4	S40-W45
TA-16-517	16-517	EQUIPMENT BLDG	V-5	S40-W45
TA-16-518	16-518	WAREHOUSE	V-6	S40-W40
TA-16-519	16-519	MUSEUM	V-7	S40-W40
TA-16-520	16-520	MUSEUM	V-8	S40-W40
TA-16-521	16-521	TANK STAND	[illegible]	S40-W45
TA-16-522	16-522	BUILDING NO. 3 (REMOVED)	V-3	
TA-16-523	16-523	PIT (REMOVED)	V-9	
TA-16-524	16-524	PIT ELECTRICAL (REMOVED)	V-10	
TA-16-525	16-525	LADIES' CHANGE HOUSE		S40-W60
TA-16-526	16-526	PUMP PIT	V-11	S40-W45
TA-16-527	16-527	SEPTIC TANK	V-12	S40-W45
TA-16-528	16-528	BARRICADE	V-13	S40-W45
TA-16-529	16-529	RETAINING WALL	V-14	S40-W45
TA-16-530	16-530	IMHOFF TANK		S40-W10
TA-16-531	16-531	TRICKLING FILTER		S40-W10
TA-16-532	16-532	FINAL TANK		S40-W10
TA-16-533	16-533	SLUDGE DRYING BED		S40-W10
TA-16-534	16-534	SCREEN		S40-W10
TA-16-535	16-535	SLUDGE DRYING BED		S40-W10
TA-16-536	16-536	RESERVE		
TA-16-537	16-537	"		
TA-16-538	16-538	"		
TA-16-539	16-539	"		
TA-16-540	16-540	STEAM PLANT		S30-W70
TA-16-541	16-541	BLOW-DOWN TANK		S30-W70
TA-16-542	16-542	GAS REGULATOR HOUSE		S30-W70
TA-16-543	16-543	UNDERGROUND STORAGE TANK		S30-W70
TA-16-544	16-544	UNDERGROUND STORAGE TANK		S30-W70
TA-16-545	16-545	UNDERGROUND STORAGE TANK		S30-W70
TA-16-546	16-546	UNDERGROUND STORAGE TANK		S30-W70
TA-16-547	16-547	MANHOLE (GAS PRV)		S30-W70
TA-16-548	16-548	RESERVE		
TA-16-549	16-549	"		
TA-16-550	16-550	"		
TA-16-551	16-551	"		
TA-16-552	16-552	"		
TA-16-553	16-553	"		
TA-16-554	16-554	TRANSFORMER STATION		S70-W 5
TA-16-555	16-555	TRANSFORMER STATION		S45-W75
TA-16-556	16-556	ROAD BLOCK		S15-W35
TA-16-557	16-557	ROAD BLOCK		S20-W30
TA-16-558	16-558	TRANSFORMER STATION		S20-W50
TA-16-559	16-559	TRANSFORMER STATION		S45-W65
TA-16-560	16-560	CHLORINATING STATION		S30-W75
TA-16-561	16-561	TRANSFORMER STATION		S40-W70
TA-16-562	16-562	TRANSFORMER STATION		S45-W65
TA-16-563	16-563	TRANSFORMER STATION		S60-W45
TA-16-564	16-564	TRANSFORMER STATION		S55-W25
TA-16-565	16-565	TRANSFORMER STATION		S45-W30
TA-16-566	16-566	TRANSFORMER STATION		S20-W60
TA-16-567	16-567	TRANSFORMER STATION		S40-W45
TA-16-568	16-568	TRANSFORMER STATION		S55-W20
TA-16-569	16-569	TRANSFORMER STATION		S60-W45
TA-16-570	16-570	TRANSFORMER STATION		S60-W65
TA-16-571	16-571	TRANSFORMER STATION		S25-W40
TA-16-572	16-572	TRANSFORMER STATION		S30-W45
TA-16-573	16-573	TRANSFORMER STATION		S20-W50
TA-16-574	16-574	TRANSFORMER STATION		S20-W60
TA-16-575	16-575	TRANSFORMER STATION		S35-W50
TA-16-576	16-576	TRANSFORMER STATION		S25-W50
TA-16-577	16-577	TRANSFORMER STATION		S40-W55
TA-16-578	16-578	TRANSFORMER STATION		S40-W55
TA-16-579	16-579	TRANSFORMER STATION		S45-W55
TA-16-580	16-580	TRANSFORMER STATION		S45-W20
TA-16-581	16-581	TRANSFORMER STATION		S45-W50
TA-16-582	16-582	TRANSFORMER STATION		S50-W55

OFFICIAL USE ONLY

REV.	
REV. ⑦	GENERAL REVISION TO STATUS OF JULY 1, 1954 — 9-13-54
REV. ⑥	GENERAL REVISION TO STATUS OF JULY 1, 1953 — 8-8-53
REV. ⑤	GENERAL REVISION TO STATUS OF JULY 1, 1952 — 9-19-52
REV. ④	GENERAL REVISIONS TO NOMENCLATURE & CLASS — 6-16-52
REV. ③	GENERAL REVISIONS TO STATUS OF JAN 1, 1952 — 1-18-52
REV. ②	GENERAL REVISION TO STATUS OF JULY 1, 1951 — 7-27-51
REV. ①	GENERAL REVISION TO STATUS OF JAN 1, 1951 — 2-21-51

AUTHORIZED FOR: HEALTH / SAFETY / FIRE PR / COMM / SEC

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

STRUCTURE LOCATION PLAN
INDEX SHEET
TA-16 S-SITE

SCALE	DRAWN BY:	DATE:	DWG. NO.
NONE	CH'D. BY:	DATE:	ENG R 132
	APP'VD. BY:	DATE:	

SHEET 1 OF 4

FIGURE 16-10

UNCLASSIFIED

TA-18

OPERATIONS ENVIRONMENTAL SETTING

Technical Area (TA) 18 activities include critical assembly research. Hazardous materials utilized at TA-18 include special nuclear materials and supporting materials for nuclear criticality studies. The site was originally used as a firing site, and hazardous and radioactive materials may possibly be present as contaminants from these activities.

TA-18 lies at elevations between 6,750 and 6,770 feet asl. It is located in Pajarito Canyon at the intersection of the main canyon with a large westerly branch of the canyon, Three Mile Canyon. The adjacent canyon walls are steep in this area. The canyon floor consists of alluvial silt, sand, and gravel, and the underlying bedrock is welded and non-welded Bandelier Tuff. Drill-holes 1,000 to 2,000 feet downstream of TA-18 encountered 8 to 11 feet of alluvium in the center of the channel, thinning toward the canyon walls.

The area is in the Pinon-Juniper overstory vegetation zone. The major soil series present at TA-18 is Typic Ustorthents-Rock outcrop complex (i.e., soils and rock outcrop combined in a single mapping unit). The Typic Ustorthents soils are thick (>155 cm), well-drained soils. It is typical of very steep mountain sideslopes. The soil is moderately to very rapidly permeable (1.6 to 16 cm/h) and has a very low water holding capacity.

At TA-18, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,900 feet asl. There are over 800 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

The stream flow in Pajarito Canyon is ephemeral in the area of TA-18 flowing only in response to storm runoff and snow melt (IT, 1987). Perched ground water occurs in the alluvium of Pajarito Canyon at TA-18, but it is not connected hydraulically with the main aquifer. The saturated thickness of the alluvium in Pajarito Canyon varies, but averages 10.01 feet in a monitoring well closest to TA-18. Seasonal fluctuations are noted in the saturated

thickness of the alluvium, with the highest water levels occurring in the summer. The range in flow rate of this perched ground water is 8 to 23 feet per day (IT, 1987).

The quality of the perched ground water in Pajarito Canyon is generally good and meets most drinking water standards. Some parameters rarely exceed numeric limits for drinking water, such as manganese, total uranium, and total dissolved solids. No routinely analyzed volatile organic compounds have been detected in the water.

TA-18 is located within the Pajarito Canyon channel and, therefore, may be subject to flooding. The Final Environmental Impact Statement shows that, with the restriction due to a bridge at TA-18 (maximum discharge allowed = 42 m3/s, or 1,500 ft3/s), the channel should carry the 100-year flood event (31 m3/s, or 1,080 m3/s).

DRAFT

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): LAGOON
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1975 - PRESENT

UNIT INFORMATION

This unit consists of two 60' x 120' lagoons with 6' high earth berms. The lagoons are constructed of gunnite and are enclosed by an 8' chain link fence. They are operated in series, with the effluent discharging to Pajarito Canyon via a NPDES outfall (see Appendix A). The lagoons are identified by structure number TA-18-162 and serve the sanitary system of TA-18.

WASTE INFORMATION

The lagoons contain sanitary sewage and possibly photographic waste solutions, according to the RFA. Hazardous wastes could have been discharged in small amounts, particularly in previous years. At one time the lagoon received liquids pumped and transported by truck from septic tanks at other technical areas. The lagoons have been sampled and analyzed for volatile organics, semi-volatile organics (samples from the south lagoon) and EP toxic metals (samples from the north lagoon). The results of the analyses indicate all constituents are below detection limits.

RELEASE INFORMATION

The lagoons discharge to Pajarito Canyon via an NPDES outfall. Presently, there are no releases of hazardous wastes, although residues from past discharges may potentially be found at the discharge point.

DRAFT

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): FIRING SITE/DROP TOWER
UNIT USE: PRODUCTION
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1945 - EARLY 1950's

UNIT INFORMATION

According to the CEARP, two firing sites were present in this technical area. The first site [18-002(a)], located at the west wing of Pajarito Canyon, was used for small charges of a few pounds each and included a firing chamber, TA-18-3, constructed of 1-inch thick steel 2' x 2' x 2'2" deep. The chamber has been removed. The second site [18-002(b)], located at the south wing of the canyon, was used for charges of several hundred pounds. This firing chamber, TA-18-4, was similar to TA-18-3 and was constructed of 1-inch thick steel, 2' x 2' x 2' deep. This chamber has also been removed. A drop tower [18-002(c)] was used in tests involving inert, HE, and ballistic objects. The location of the drop tower is not known.

WASTE INFORMATION

Suspected contaminants include uranium, possibly barium from HE, cadmium, beryllium, and lead.

RELEASE INFORMATION

Information on decommissioning of these sites is not available, however, LANL staff indicate the possibility that residuals remain is small.

DRAFT

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1944 - PRESENT

UNIT INFORMATION

Three active septic systems and four inactive septic systems are present in TA-18.

STRUCTURE	SWMU NO.	PERIOD OF USE	STATUS	CAPACITY	DIMENSIONS	CONSTRUCTION	OUTFALL/DISCHARGE	BUILDING
TA-18-105	18-003(a)	1946 - present	active	2500 gal.	5'4"x 5'4"x 12'deep	reinforced concrete	leach field	TA-18-23
TA-18-39	18-003(b)	1947 - present	active	524 gal.	4'x 7'x 5'6" deep	reinforced concrete	leach field	TA-18-105
TA-18-42	18-003(c)	1952 - present	active	587 gal.	6' dia. x 7' deep	reinforced concrete	leach field	TA-18-32
TA-18-120	18-003(d)	1960 - present	active	500 gal.	unknown	unknown	leach field	TA-18-116
TA-18-40	18-003(e)	1952 - ?	inactive	unknown	6' dia. x 6' deep	reinforced concrete	outfall	TA-18-31
TA-18-41	18-003(f)	1952 - ?	inactive	unknown	9' x 5' x 5' deep	reinforced concrete	drain field	TA-18-30
TA-18-43	18-003(g)	1944 - ?	inactive	unknown	3' x 5' x 5' deep	concrete	outfall	TA-18-1
TA-18-152	18-003(h)	? - ?	inactive	500 gal.	4'4"dia x 5' long	steel	unknown	TA-18-28

Note: Building TA-18-23 is Kiva 1; Building TA-18-32 is Kiva 2; Building TA-18-116 is Kiva 3. TA-18-152 may have been removed. TA-18-105 is a settling pit that is a component of the septic system that includes TA-18-39 and serves Kiva 1, TA-18-23.

WASTE INFORMATION

Septic tanks TA-18-39, TA-18-42, and TA-18-120 received wash water from their respective Kiva drains; this water potentially contains radionuclides. Additionally, high oil content has been reported in TA-18-120. The inactive systems (TA-18-40, -41, -43, and -152) received primarily sanitary waste. It is possible that small quantities of solvents and other chemicals may have been included in the waste.

RELEASE INFORMATION

The septic systems associated with the Kivas discharge to leach/drain fields. These fields are probably contaminated with uranium and perhaps hazardous materials. The extent of contamination and possible mobilization from the leach fields is not known. It is unknown whether releases of hazardous constituents have occurred from the other septic systems.

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1950'S - 1977

UNIT INFORMATION

This unit consisted of tanks in a containment pit used for storing liquid waste. Acid waste lines [18-004(a)] from the sinks on the west side of Building 30 connected to a pit, TA-18-38 [18-004(b)], which was a subsurface concrete pit (4' x 9' x 8') that contained two small stainless steel tanks which stored the waste until a tank was full. These tanks received radioactively contaminated liquid waste from Building 30. The full tank was then removed for waste collection, cleaning, and then returned. In 1977, these tanks were removed and the inlet lines capped. The walls of the pit were knocked down and left in place, and the area was then backfilled to grade. A segment of the feed line is still buried under TA-18-30.

WASTE INFORMATION

The tanks and pit at TA-13-38 managed liquids suspected to contain radionuclides, solvents and other chemicals.

RELEASE INFORMATION

No releases of hazardous materials from this unit are known.

DRAFT

18-005 FORMER MAGAZINE SITE

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): MAGAZINE
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1950's

UNIT INFORMATION

Building TA-18-15 was used first as a magazine for the firing group and later as a storage area for contaminated materials. The building was demolished in 1977.

WASTE INFORMATION

The stored materials contained uranium and beryllium oxide and, according to LANL staff, there is a slight possibility that residues may be present in the area surrounding this former building.

RELEASE INFORMATION

The CEARP does not state evidence of any releases from this building either during its operational lifetime or during decommissioning. It is not known if any sampling was undertaken to verify the absence of contamination.

DRAFT

18-006 URANIUM SOLUTION PIPE

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): OTHER: UNDERGROUND PIPE
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1969 - 1970's

UNIT INFORMATION

This unit is described by CEARP as an underground pipe used for storage of uranium solution associated with the Kinglet reactor. The solution is believed to have been removed. However, the piping and pump remain in place. The pipe apparently runs from Building 168 southwesterly toward the fence.

WASTE INFORMATION

Uranium solution was stored in this pipe. Residuals may be present in the pipe and pump.

RELEASE INFORMATION

There have been no known releases to the environment from the pipe and associated equipment. Decommissioning information on the pipe and pump is currently not available.

DRAFT

18-007 SUSPECTED BURIAL SITE

SUMMARY

LOCATION: TA-18
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1949

UNIT INFORMATION

A memo in engineering file 1757 indicates the possibility of material buried beyond the old Kiva at TA-18. An employee remembers burying a tank in this suspected site about 1.25 miles up the canyon from Kiva 2 in 1949.

WASTE INFORMATION

The tank may have been contaminated with radionuclides or HE residues.

RELEASE INFORMATION

The site has not been investigated. No releases are known.

DRAFT

TA-18 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
18-001	18-1, 18-2, 18-5, 18-7
18-002(a)	18-3
18-002(b)	18-3
118-002(c)	Not shown, location unknown
18-003(a)	18-1
18-003(b)	18-1, 18-7
18-003(c)	18-1, 18-7
18-003(d)	18-1
18-003(e)	18-1
18-003(f)	18-1
18-003(g)	18-1
18-003(h)	18-1
18-004(a)	18-1, 18-4
18-004(b)	18-4
18-005	18-4
18-006	18-1
18-007	18-1, 18-6

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 02 01 B110

UNCLASSIFIED

NOTE:
FOR EXTREME NORTHERN AREA
SEE INSERT AT RIGHT

18-006
18-003(a)
18-003(b)
18-004(a)
18-003(g)
18-003(h)
18-003(f)
18-003(e)
18-003(c)
18-003(d)
18-001
830 ft.
18-007
1.25 mi.

PAJARITO CANYON
PAJARITO ROAD
CABLE TRAY
TO WHITE ROCK
TO TA-3
TO TA-51
TO TA-18
TO TA-39
THREE MILE CANYON
STA. 451

LEGEND: ARCHY SITE STATUS

△ EXCAVATED
○ UNEXCAVATED

NOTES

18-007 EXACT LOCATION UNKNOWN

1"=100'
GRAPHIC SCALE

EXPLANATION

18-001 SWMU LOCATION

010
LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

FIGURE 18-1

SOLID WASTE MANAGEMENT UNITS
(SWMUs) IN TA-18

REV.	DATE	REVISIONS	BY	CKD.	APP.
19	8-8-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 8-8-83	H.S.		

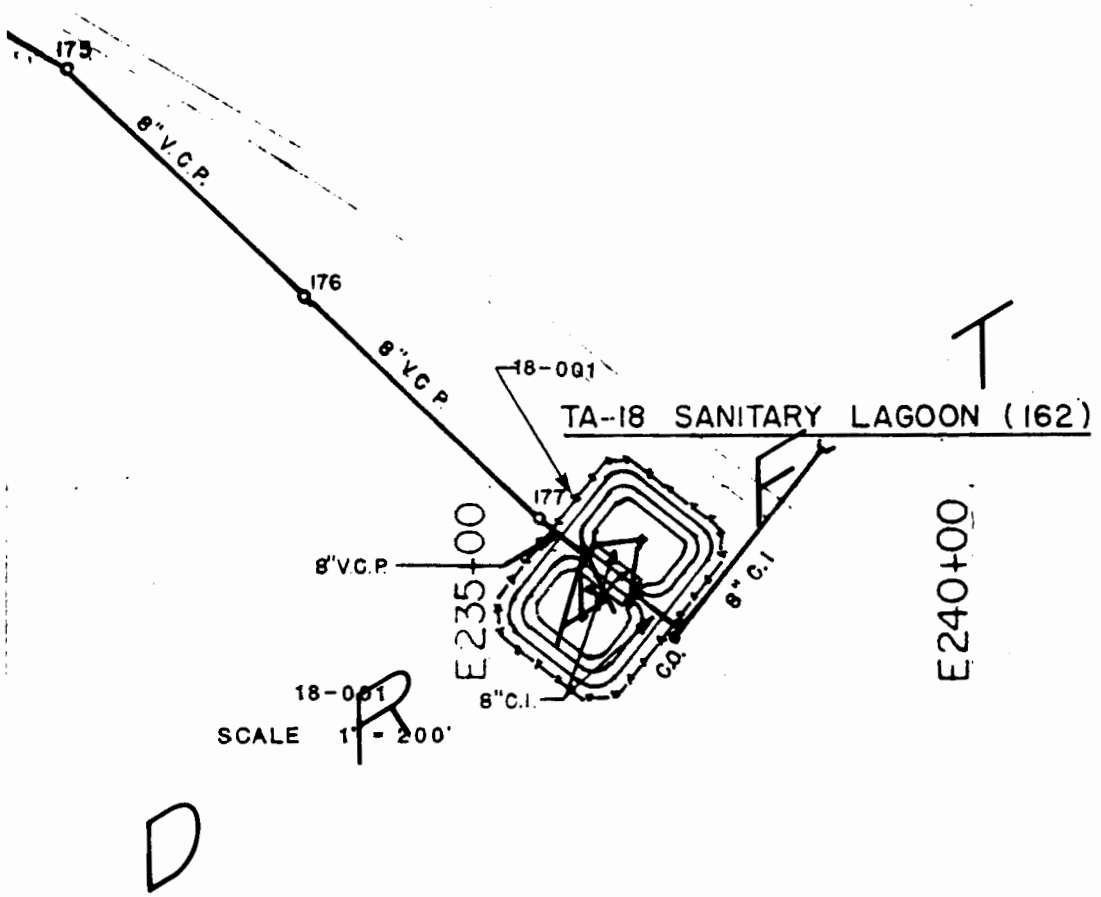
UNIVERSITY OF CALIFORNIA
Los Alamos
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-18 PAJARITO LABORATORY

SEE CLASSIFICATION
CLASS. U
REVIEWER
DATE 11-2-89

SUBMITTED
RECOMMENDED
APPROVED
DATE 8-8-83
SHEET NO. 1 of 1
DRAWING NO. ENG-R 5412



EXPLANATION

18-001 SWMU LOCATION

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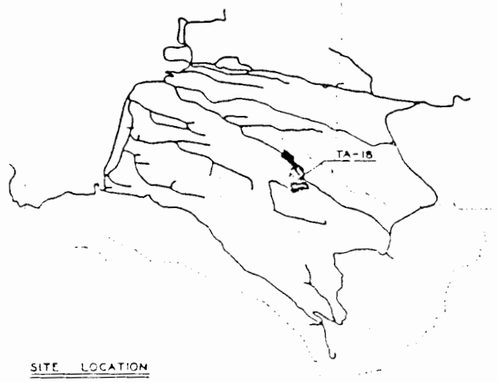
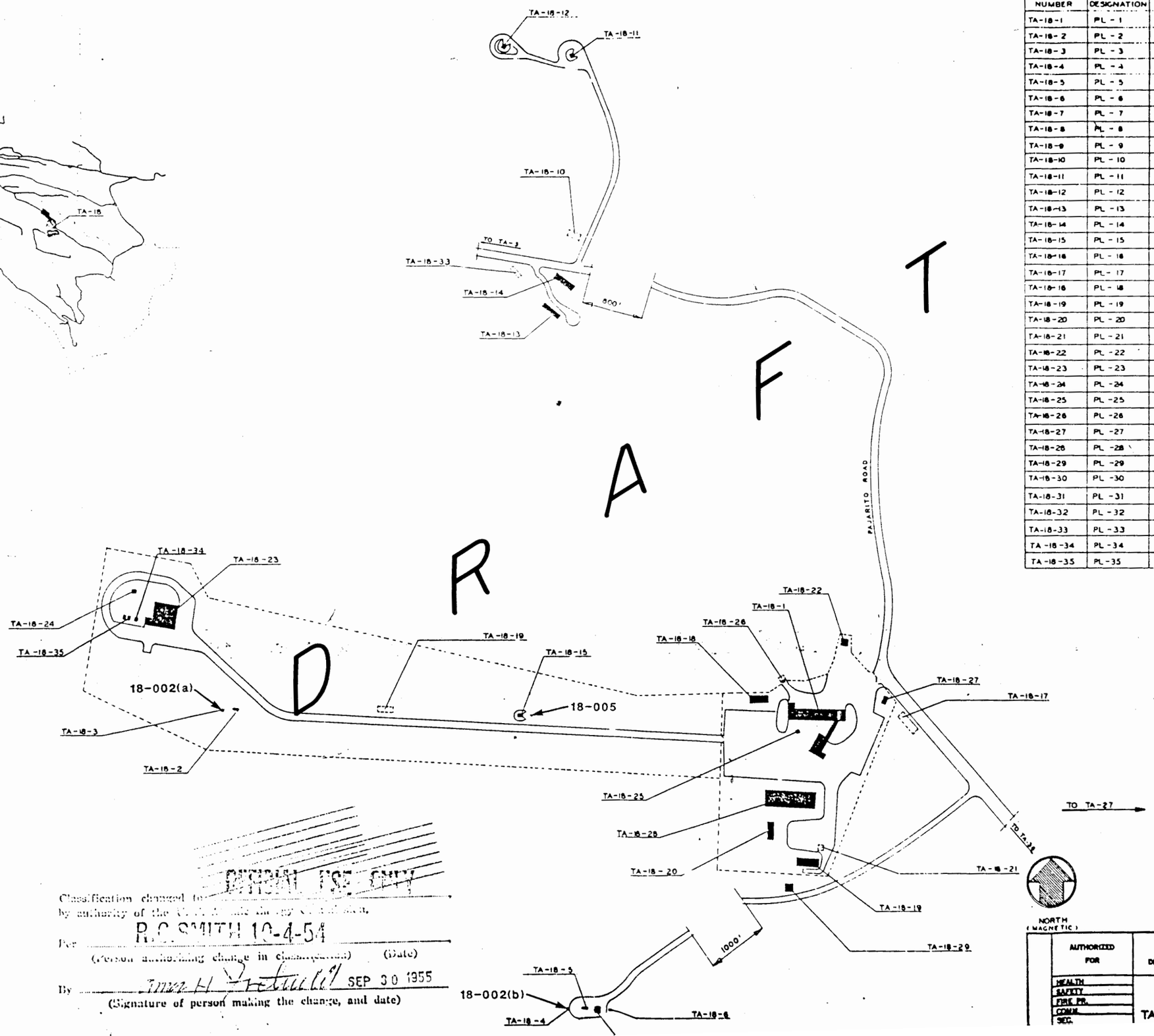
FIGURE 18-2

SOLID WASTE MANAGEMENT UNITS
(SWMUs) IN TA-18

3012 2 01 B99





STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-18-1	PL - 1	LABORATORY BUILDING
TA-18-2	PL - 2	BATTLESHIP BUILDING
TA-18-3	PL - 3	CHAMBER REMOVED 1945
TA-18-4	PL - 4	CHAMBER REMOVED 1945
TA-18-5	PL - 5	BATTLESHIP BUILDING
TA-18-6	PL - 6	SUBMARINE BUILDING
TA-18-7	PL - 7	SUBMARINE BUILDING TRANSFERRED T
TA-18-8	PL - 8	SUBMARINE BUILDING TRANSFERRED
TA-18-9	PL - 9	INSTRUMENT CHAMBER TRANSFERRED TO
TA-18-10	PL - 10	ASSEMBLY BUILDING REMOVED 1947
TA-18-11	PL - 11	MAGAZINE
TA-18-12	PL - 12	MAGAZINE
TA-18-13	PL - 13	LUMBER STORAGE
TA-18-14	PL - 14	CARPENTER SHOP
TA-18-15	PL - 15	MAGAZINE
TA-18-16	PL - 16	BATTERY BUILDING & CONDUIT SYSTEM
TA-18-17	PL - 17	WAREHOUSE BUILDING REMOVED
TA-18-18	PL - 18	COUNTING BUILDING
TA-18-19	PL - 19	LABORATORY BUILDING RELOCATED
TA-18-20	PL - 20	CARPENTER SHOP
TA-18-21	PL - 21	STORAGE BUILDING REMOVED JULY 19 9
TA-18-22	PL - 22	GENERATOR BUILDING
TA-18-23	PL - 23	ASSEMBLY BUILDING "KIVA"
TA-18-24	PL - 24	GUARD TOWER "A" (WEST)
TA-18-25	PL - 25	GUARD TOWER "B" (EAST)
TA-18-26	PL - 26	VAULT, FORMERLY BLDG 17
TA-18-27	PL - 27	GUARD BUILDING
TA-18-28	PL - 28	WAREHOUSE FORMERLY BLDG 19
TA-18-29	PL - 29	LOG CABIN
TA-18-30	PL - 30	LABORATORY & OFFICE BUILDING FUTURE CONST
TA-18-31	PL - 31	UTILITY BLDG. FUTURE CONST
TA-18-32	PL - 32	ASSEMBLY BLDG. FUTURE CONST
TA-18-33	PL - 33	UNDERGROUND TANK
TA-18-34	PL - 34	WATER TANK
TA-18-35	PL - 35	PROPANE TANKS ✓

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EXPLANATION

18-001 SWMU LOCATION

FIGURE 18-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-18

AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING—CONSTRUCTION & MAINTENANCE GROUP
HEALTH SAFETY FIRE PR. COMM. SEC.	STRUCTURE LOCATION PLAN TA-18 PAJARITO LABORATORY

DRAFT

OFFICIAL USE ONLY

Classification changed to ..... by authority of the ..... R. C. SMITH 10-4-54

Per ..... (Person authorizing change in classification) (Date)

By ..... SEP 30 1955 (Signature of person making the change, and date)

OFFICIAL USE ONLY

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-18-1	PL-1	LABORATORY BLDG.
TA-18-2	PL-2	BATTLESHIP BLDG.
TA-18-3	PL-3	CHAMBER (REMOVED 1945)
TA-18-4	PL-4	CHAMBER (REMOVED 1945)
TA-18-5	PL-5	BATTLESHIP BLDG.
TA-18-6	PL-6	SUBMARINE BLDG. (REMOVED)
TA-18-7	PL-7	SUBMARINE BLDG. (TRANSFERRED TO TA-27)
TA-18-8	PL-8	SUBMARINE BLDG. (TRANSFERRED TO TA-27)
TA-18-9	PL-9	INSTRUMENT CHAMBER (TRANSFERRED TO TA-27)
TA-18-10	PL-10	ASSEMBLY BLDG. (REMOVED)
TA-18-11	PL-11	MAGAZINE
TA-18-12	PL-12	MAGAZINE
TA-18-13	PL-13	LUMBER STORAGE (REMOVED)
TA-18-14	PL-14	CARPENTER SHOP
TA-18-15	PL-15	MAGAZINE
TA-18-16	PL-16	BATTERY BLDG. & CONDUIT SYSTEM (REMOVED)
TA-18-17	PL-17	WAREHOUSE (REMOVED)
TA-18-18	PL-18	COUNTING BLDG.
TA-18-19	PL-19	LABORATORY BLDG. (RELOCATED JULY 1949)
TA-18-20	PL-20	CARPENTER SHOP (REMOVED)
TA-18-21	PL-21	STORAGE BLDG. (REMOVED)
TA-18-22	PL-22	GENERATOR BLDG. (REMOVED)
TA-18-23	PL-23	ASSEMBLY BLDG. "KIVA"
TA-18-24	PL-24	GUARD TOWER "A" (WEST)
TA-18-25	PL-25	GUARD TOWER "B" (EAST)
TA-18-26	PL-26	VAULT (FORMERLY BLDG. 17)
TA-18-27	PL-27	GUARD BLDG. (ABANDONED)
TA-18-28	PL-28	WAREHOUSE (FORMERLY BLDG. 19)
TA-18-29	PL-29	LOG CABIN
TA-18-30	PL-30	LABORATORY & OFFICE BLDG.
TA-18-31	PL-31	UTILITY BLDG.
TA-18-32	PL-32	ASSEMBLY BLDG.
TA-18-33	PL-33	UNDERGROUND TANK
TA-18-34	PL-34	WATER TANK
TA-18-35	PL-35	PROPANE TANK
TA-18-36	PL-36	PROPANE TANK
TA-18-37	PL-37	GUARD HOUSE (STATION 450)
TA-18-38	PL-38	WASTE PIT & HOIST
TA-18-39	PL-39	SEPTIC TANK
TA-18-40	PL-40	SEPTIC TANK
TA-18-41	PL-41	SEPTIC TANK
TA-18-42	PL-42	SEPTIC TANK
TA-18-43	PL-43	SEPTIC TANK
TA-18-44	PL-44	TRANSFORMER STATION
TA-18-45	PL-45	TRANSFORMER STATION
TA-18-46	PL-46	TRANSFORMER STATION
TA-18-47	PL-47	MANHOLE (SEWER)
TA-18-48	PL-48	MANHOLE (SEWER)
TA-18-49	PL-49	MANHOLE (ELECTRIC - PULL BOX)
TA-18-50	PL-50	MANHOLE (CONTROL)
TA-18-51	PL-51	MANHOLE " "
TA-18-52	PL-52	MANHOLE " "
TA-18-53	PL-53	MANHOLE " "
TA-18-54	PL-54	MANHOLE " "
TA-18-55	PL-55	MANHOLE " "
TA-18-56	PL-56	MANHOLE " "
TA-18-57	PL-57	MANHOLE " "
TA-18-58	PL-58	MANHOLE (ELECTRIC)
TA-18-59	PL-59	MANHOLE (ELECTRIC)
TA-18-60	PL-60	MANHOLE (SEWER)
TA-18-61	PL-61	MANHOLE (SEWER)
TA-18-62	PL-62	MANHOLE (CONTROL)
TA-18-63	PL-63	MANHOLE (TELEPHONE)
TA-18-64	PL-64	MANHOLE (CONTROL)
TA-18-65	PL-65	MANHOLE (TELEPHONE)
TA-18-66	PL-66	MANHOLE (CONTROL)
TA-18-67	PL-67	MANHOLE (TELEPHONE)
TA-18-68	PL-68	MANHOLE (CONTROL)
TA-18-69	PL-69	MANHOLE (TELEPHONE)
TA-18-70	PL-70	MANHOLE (CONTROL)
TA-18-71	PL-71	MANHOLE (TELEPHONE)
TA-18-72	PL-72	MANHOLE (CONTROL)
TA-18-73	PL-73	MANHOLE (TELEPHONE)
TA-18-74	PL-74	MANHOLE (CONTROL)
TA-18-75	PL-75	MANHOLE (TELEPHONE)
TA-18-76	PL-76	MANHOLE (ELECTRIC)
TA-18-77	PL-77	MANHOLE " "
TA-18-78	PL-78	MANHOLE " "
TA-18-79	PL-79	MANHOLE " "
TA-18-80	PL-80	MANHOLE " "
TA-18-81	PL-81	MANHOLE " "
TA-18-82	PL-82	MANHOLE " "
TA-18-83	PL-83	MANHOLE " "
TA-18-84	PL-84	MANHOLE " "
TA-18-85	PL-85	MANHOLE " "
TA-18-86	PL-86	MANHOLE " "
TA-18-87	PL-87	MANHOLE " "
TA-18-88	PL-88	MANHOLE " "
TA-18-89	PL-89	MANHOLE " "
TA-18-90	PL-90	MANHOLE " "
TA-18-91	PL-91	MANHOLE " "
TA-18-92	PL-92	HOSEHOUSE
TA-18-93	PL-93	MANHOLE (HANDHOLE)
TA-18-94	PL-94	MANHOLE (HANDHOLE)
TA-18-95	PL-95	MANHOLE (HANDHOLE)
TA-18-96	PL-96	MANHOLE (ELECTRIC)
TA-18-97	PL-97	MANHOLE (ELECTRIC)
TA-18-98	PL-98	MANHOLE (SEWER)
TA-18-99	PL-99	MANHOLE (ELECTRIC)
TA-18-100	PL-100	MANHOLE (WATER)
TA-18-101	PL-101	MANHOLE (ELECTRIC)
TA-18-102	PL-102	WATER TANK (REMOVED)
TA-18-103	PL-103	WATER TANK (REMOVED)
TA-18-104	PL-104	OIL TANK - UNDERGROUND
TA-18-105	PL-105	MANHOLE (SETTLING PIT)
TA-18-106	PL-106	TRANSFORMER STATION (REMOVED)
TA-18-107	PL-107	SENTRY BLDG. (REMOVED)
TA-18-108	PL-108	SIREN
TA-18-109	PL-109	TRANSFORMER STATION (REMOVED)
TA-18-110	PL-110	DRUM STORAGE PLATFORM
TA-18-111	PL-111	GUARD HOUSE (WAS TA-27-4)
TA-18-112	PL-112	GUARD HOUSE (WAS TA-18-1000)

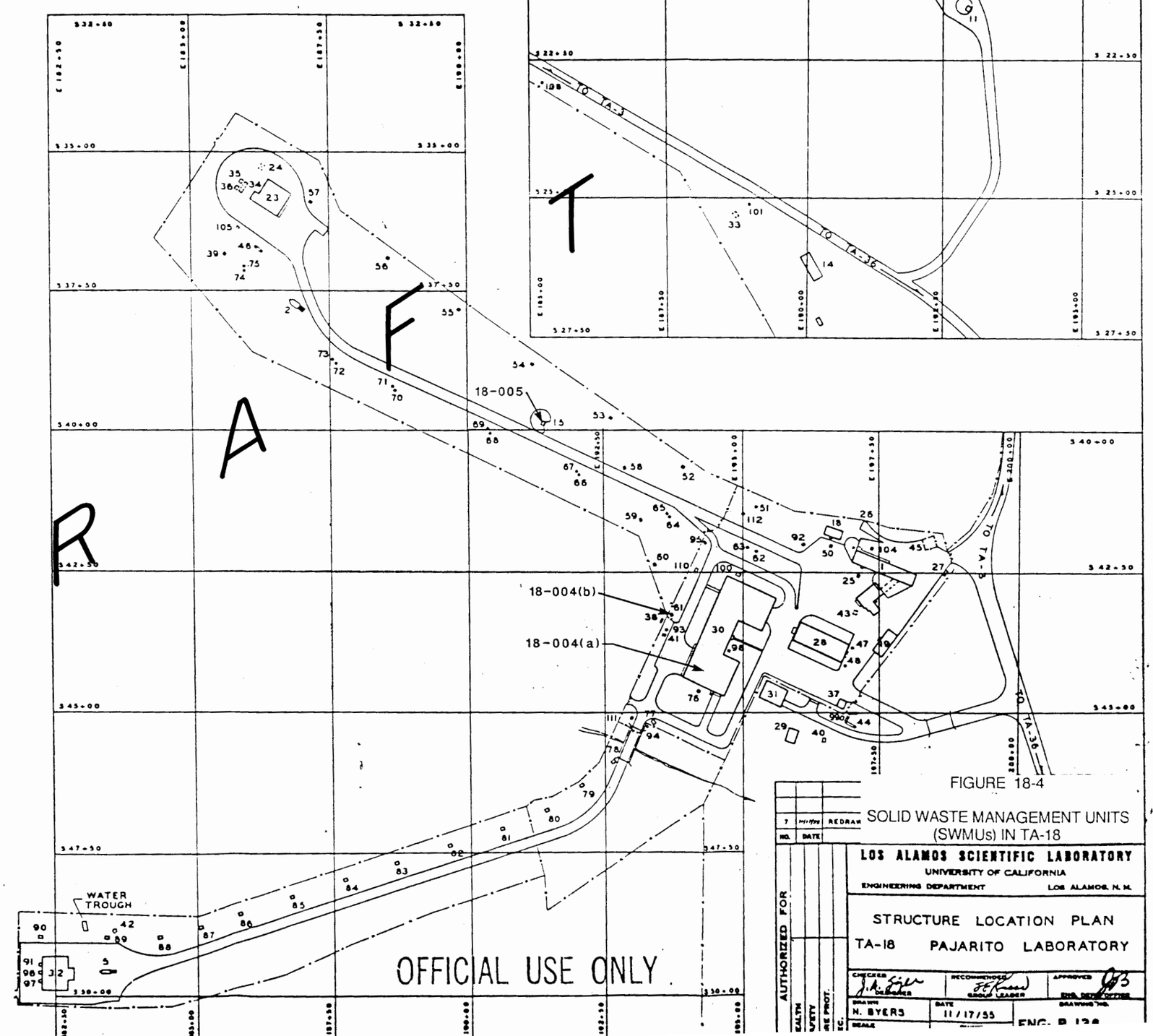


FIGURE 18-4

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-18

NO.	DATE	
7	11/17/55	REDRAWN

AUTHORIZED FOR

HEALTH
SAFETY
SECURITY PROT.
ENG.

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

STRUCTURE LOCATION PLAN
TA-18 PAJARITO LABORATORY

CHECKED: J. A. Gifford — CHIEF ENGINEER
RECOMMENDED: F. E. Kennedy — GROUP LEADER
APPROVED: G. B. — ENG. DEPT. OFFICE

DRAWN: N. BYERS
DATE: 11/17/55
SCALE:
DRAWING NO.: ENG-B-126

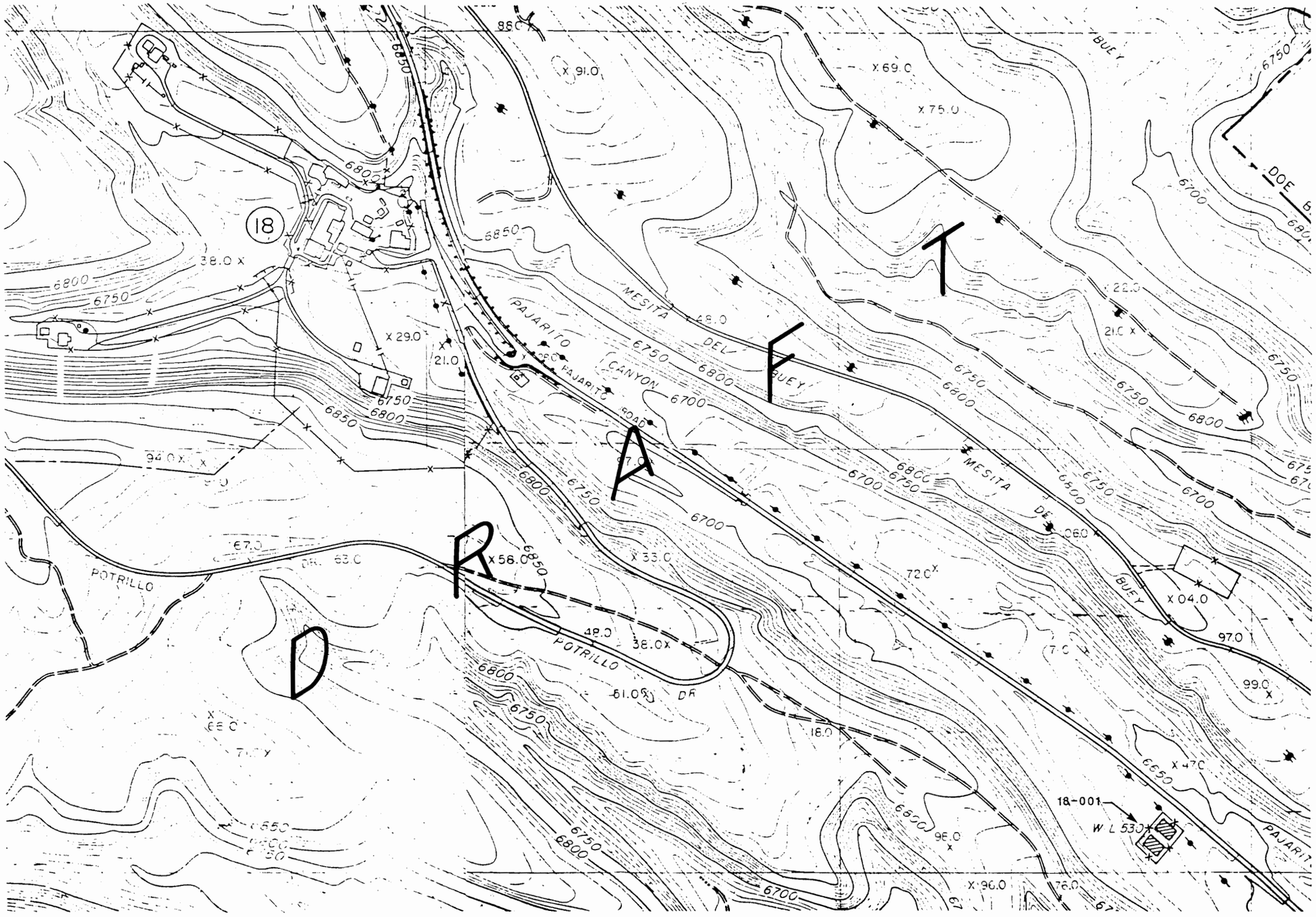
EXPLANATION

18-001 SWMU LOCATION

UNCLASSIFIED

OFFICIAL USE ONLY

301215 02 01 B157



EXPLANATION

18-001 SWMU LOCATION

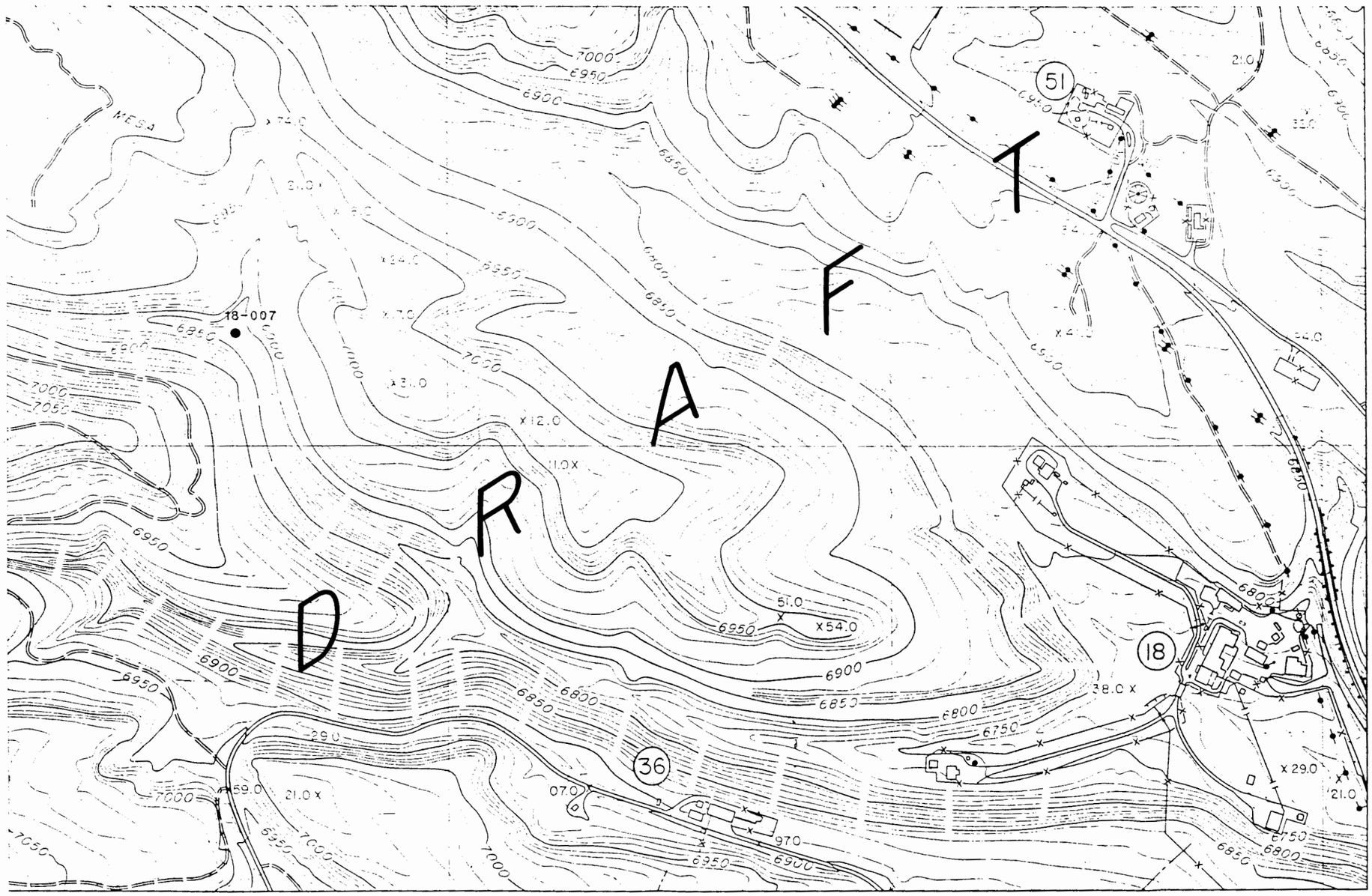
From Los Alamos Scientifi Laboratory Plan/Topo Lab No. 5682

UNCLASSIFIED

FIGURE 18-5

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-18

301215 02 01 B158



EXPLANATION

18-001 SWMU LOCATION

From Los Alamos Scientific Laboratory Plan/Topo Lab Job No. 5682

NOTES

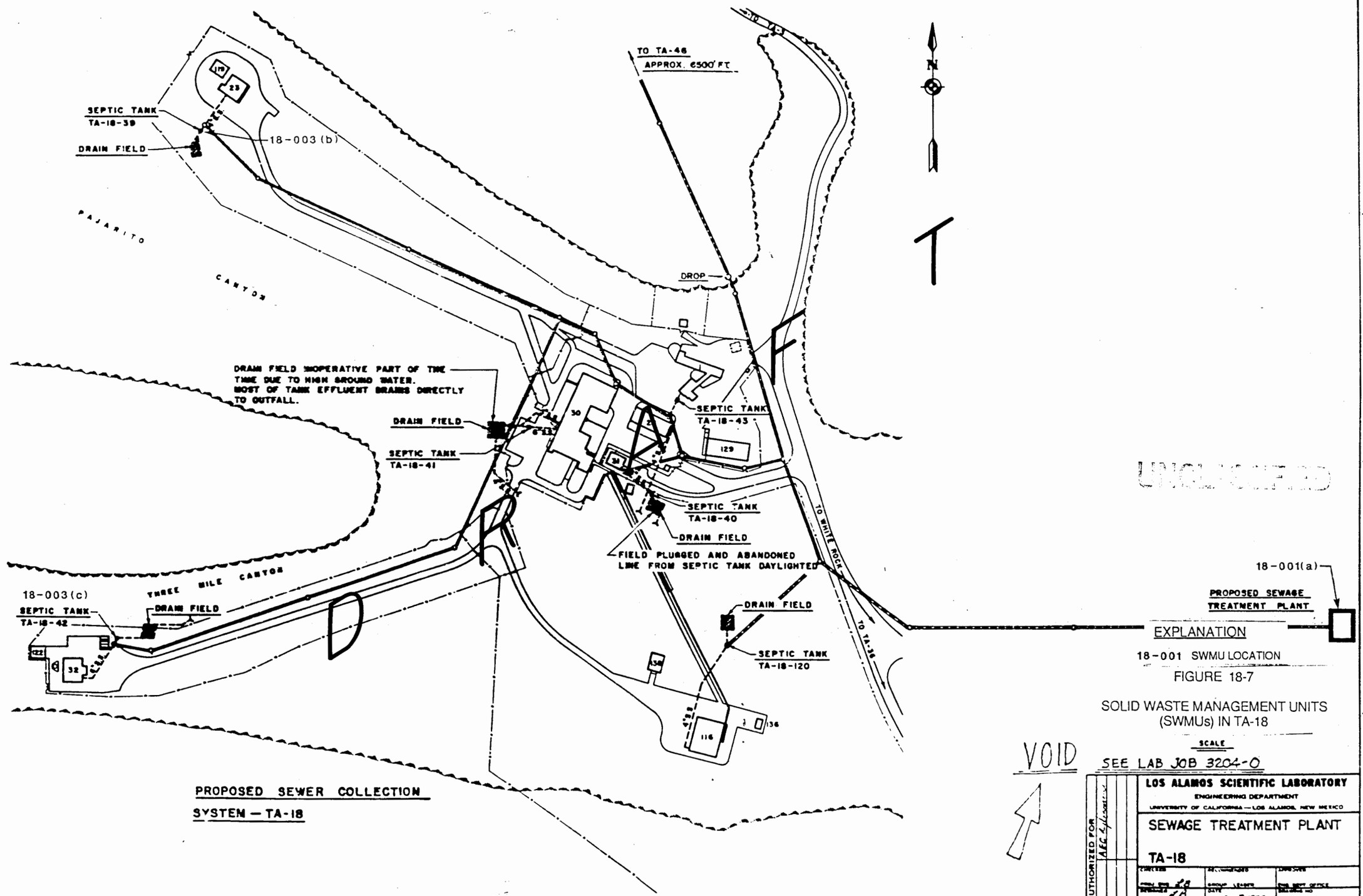
18-007 EXACT LOCATION UNKNOWN

UNCLASSIFIED

FIGURE 18-6

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-18

301215 01 B126



EXPLANATION

18-001 SWMU LOCATION

FIGURE 18-7

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-18

SCALE

SEE LAB JOB 3204-0

VOID

AUTHORIZED FOR AEC Explosives

HEALTH
SAFETY
FIRE PROT.
SEC.

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

SEWAGE TREATMENT PLANT

TA-18

CHECKED	RECOMMENDED	APPROVED
DATE	Oct 7, 1964	
SHEET 3 OF 3		ENG-PL-975
C.A. NO.	B. A. NO.	L. J. NO. 3204-18

1	VRS/SM	TITLE CHANGE & GENERAL REVISIONS
NO.	DATE	REVISIONS

VOID

301215 02 01 B24

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-18-1	PL-1	LABORATORY BUILDING		S 42+50 E197+50
TA-18-2	PL-2	BATTLESHIP BUILDING		S 37+50 E187+50
TA-18-3	PL-3		REMOVED 1945	
TA-18-4	PL-4		REMOVED 1945	
TA-18-5	PL-5	BATTLESHIP BUILDING		S 50+00 E182+50
TA-18-6	PL-6		REMOVED 1952	
TA-18-7	PL-7	SUBMARINE BUILDING	RELOCATED TO TA-27-1	
TA-18-8	PL-8	SUBMARINE BUILDING	RELOCATED TO TA-27-2	
TA-18-9	PL-9	INSTRUMENT CHAMBER	RELOCATED TO TA-27-3	
TA-18-10	PL-10	ASSEMBLY BUILDING	RELOCATED TO TA-3-1	
TA-18-11	PL-11		REMOVED 1960	
TA-18-12	PL-12		REMOVED 1960	
TA-18-13	PL-13		REMOVED 1950	
TA-18-14	PL-14		REMOVED 1964	
TA-18-15	PL-15	MAGAZINE	DEMOLISHED 1977	
TA-18-16	PL-16		REMOVED 1952	
TA-18-17	PL-17	WAREHOUSE	RELOCATED TO TA-20-46	
TA-18-18	PL-18		REMOVED 1963	
TA-18-19	PL-19		REMOVED 1963	
TA-18-20	PL-20		REMOVED 1952	
TA-18-21	PL-21	STORAGE BUILDING	RELOCATED TO TA-2-14	
TA-18-22	PL-22		REMOVED 1950	
TA-18-23	PL-23	ASSEMBLY BUILDING	KIVA NO. 1	S 35+00 E187+50
TA-18-24	PL-24		REMOVED 1958	
TA-18-25	PL-25		REMOVED 1958	
TA-18-26	PL-26	VAULT		S 42+50 E197+50
TA-18-27	PL-27	GUARD HOUSE	DEMOLISHED 1977	
TA-18-28	PL-28	WAREHOUSE		S 42+50 E197+50
TA-18-29	PL-29	LOG CABIN		S 45+00 E195+00
TA-18-30	PL-30	LABORATORY & OFFICE BLDG		S 42+50 E195+00
TA-18-31	PL-31	UTILITY BUILDING		S 45+00 E195+00
TA-18-32	PL-32	ASSEMBLY BUILDING	KIVA NO. 2	S 50+00 E182+50
TA-18-33	PL-33	TANK	WATER, UNDERGROUND	S 25+00 E187+50
TA-18-34	PL-34	TANK	WATER, UNDERGROUND	S 35+00 E185+00
TA-18-35	PL-35		REMOVED 1953	
TA-18-36	PL-36		REMOVED 1953	
TA-18-37	PL-37	GUARD HOUSE		S 45+00 E197+50
TA-18-38	PL-38	WASTE PIT & HOIST	DEMOLISHED 1977	
TA-18-39	PL-39	TANK	SEPTIC	S 37+50 E185+00
TA-18-40	PL-40	TANK	SEPTIC	S 45+00 E197+50
TA-18-41	PL-41	TANK	SEPTIC	S 42+00 E192+50
TA-18-42	PL-42	TANK	SEPTIC	S 50+00 E182+50
TA-18-43	PL-43	TANK	SEPTIC	S 42+50 E197+50
TA-18-44	PL-44	SWITCHGEAR STATION		S 45+00 E197+50
TA-18-45	PL-45	TRANSFORMER STATION		S 42+50 E197+50
TA-18-46	PL-46	TRANSFORMER STATION		S 37+50 E185+00
TA-18-47	PL-47	MANHOLE	SANITARY	S 45+00 E197+50
TA-18-48	PL-48	MANHOLE	SANITARY	S 45+00 E197+50
TA-18-49	PL-49	MANHOLE	ELECTRICAL	S 42+50 E195+00
TA-18-50	PL-50		REMOVED 1968	
TA-18-51	PL-51		REMOVED 1967	
TA-18-52	PL-52		REMOVED 1967	
TA-18-53	PL-53	MANHOLE	ELECTRICAL	S 40+00 E192+50
TA-18-54	PL-54	MANHOLE	ELECTRICAL	S 37+50 E190+00
TA-18-55	PL-55	MANHOLE	ELECTRICAL	S 37+50 E190+00
TA-18-56	PL-56	MANHOLE	ELECTRICAL	S 37+50 E187+50
TA-18-57	PL-57	MANHOLE	ELECTRICAL	S 35+00 E187+50
TA-18-58	PL-58	MANHOLE	ELECTRICAL	S 40+00 E192+50
TA-18-59	PL-59	MANHOLE	ELECTRICAL	S 42+50 E192+50
TA-18-60	PL-60	MANHOLE	ELECTRICAL	S 42+50 E192+50
TA-18-61	PL-61	MANHOLE	ELECTRICAL	S 42+50 E192+50
TA-18-62	PL-62	MANHOLE	ELECTRICAL	S 42+50 E195+00
TA-18-63	PL-63	MANHOLE	TELEPHONE	S 42+50 E195+00
TA-18-64	PL-64	MANHOLE	ELECTRICAL	S 42+50 E192+50
TA-18-65	PL-65	MANHOLE	TELEPHONE	S 42+50 E192+50
TA-18-66	PL-66	MANHOLE	ELECTRICAL	S 40+00 E192+50
TA-18-67	PL-67	MANHOLE	TELEPHONE	S 40+00 E192+50
TA-18-68	PL-68	MANHOLE	ELECTRICAL	S 40+00 E190+00
TA-18-69	PL-69	MANHOLE	TELEPHONE	S 40+00 E190+00
TA-18-70	PL-70	MANHOLE	ELECTRICAL	S 40+00 E187+50
TA-18-71	PL-71	MANHOLE	TELEPHONE	S 40+00 E187+50
TA-18-72	PL-72	MANHOLE	ELECTRICAL	S 40+00 E187+50
TA-18-73	PL-73	MANHOLE	TELEPHONE	S 37+50 E187+50
TA-18-74	PL-74	MANHOLE	ELECTRICAL	S 37+50 E185+00
TA-18-75	PL-75	MANHOLE	TELEPHONE	S 37+50 E185+00
TA-18-76	PL-76	MANHOLE	ELECTRICAL	S 45+00 E195+00
TA-18-77	PL-77	MANHOLE	ELECTRICAL	S 45+00 E192+50
TA-18-78	PL-78	MANHOLE	ELECTRICAL	S 45+00 E192+50
TA-18-79	PL-79	MANHOLE	ELECTRICAL	S 47+50 E192+50
TA-18-80	PL-80	MANHOLE	ELECTRICAL	S 47+50 E192+50
TA-18-81	PL-81	MANHOLE	ELECTRICAL	S 47+50 E190+00
TA-18-82	PL-82	MANHOLE	ELECTRICAL	S 47+50 E190+00
TA-18-83	PL-83	MANHOLE	ELECTRICAL	S 47+50 E187+50
TA-18-84	PL-84	MANHOLE	ELECTRICAL	S 47+50 E187+50
TA-18-85	PL-85	MANHOLE	ELECTRICAL	S 47+50 E187+50
TA-18-86	PL-86	MANHOLE	ELECTRICAL	S 47+50 E185+00
TA-18-87	PL-87	MANHOLE	ELECTRICAL	S 47+50 E185+00
TA-18-88	PL-88	MANHOLE	ELECTRICAL	S 50+00 E185+00
TA-18-89	PL-89	MANHOLE	ELECTRICAL	S 50+00 E182+50
TA-18-90	PL-90	MANHOLE	ELECTRICAL	S 50+00 E182+50
TA-18-91	PL-91	MANHOLE	ELECTRICAL	S 50+00 E182+50
TA-18-92	PL-92	HOSE HOUSE	TRANSFERRED TO ZIA 1957	S 42+50 E195+00
TA-18-93	PL-93	MANHOLE	SANITARY	S 42+50 E192+50
TA-18-94	PL-94	MANHOLE	ABANDONED 1953	S 45+00 E192+50
TA-18-95	PL-95	MANHOLE	ELECTRICAL	S 42+50 E195+00
TA-18-96	PL-96	MANHOLE	ELECTRICAL	S 50+00 E182+50
TA-18-97	PL-97	MANHOLE	ELECTRICAL	S 50+00 E182+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-18-98	PL-98	MANHOLE	SANITARY	S 45+00 E195+00
TA-18-99	PL-99		REMOVED 1980	
TA-18-100	PL-100	MANHOLE	WATER PRV	S 42+50 E195+00
TA-18-101	PL-101	MANHOLE	WATER PRV	S 25+00 E190+00
TA-18-102	PL-102		REMOVED 1948	
TA-18-103	PL-103		REMOVED 1948	
TA-18-104	PL-104	TANK, FUEL UNDERGROUND	ABANDONED JUNE 1966	S 42+50 E197+50
TA-18-105	PL-105	MANHOLE	ACID SETTLING PIT	S 37+50 E185+00
TA-18-106	PL-106		REMOVED 1952	
TA-18-107	PL-107		REMOVED 1948	
TA-18-108	PL-108		REMOVED 1953	
TA-18-109	PL-109		REMOVED 194[illegible]	
TA-18-110	PL-110	DRUM STORAGE PLATFORM		S 42+50 E195+00
TA-18-111	PL-111		REMOVED 196[illegible]	
TA-18-112	PL-112		REMOVED 194[illegible]	
TA-18-113	PL-113	DISTRIBUTION BOX	SANITARY	S 42+50 E192+50
TA-18-114	PL-114		CANCELLED	
TA-18-115	PL-115	EXPERIMENTAL SLAB		S 50+00 E182+50
TA-18-116	PL-116	ASSEMBLY BUILDING	KIVA NO. 3	S 50+00 E197+50
TA-18-117	PL-117		CANCELLED	
TA-18-118	PL-118		CANCELLED	
TA-18-119	PL-119	STORAGE BUILDING		S 35+00 E185+00
TA-18-120	PL-120	TANK	SEPTIC	S 50+00 E197+50
TA-18-121	PL-121	MANHOLE	SANITARY	S 52+50 E197+50
TA-18-122	PL-122	STORAGE BUILDING		S 50+00 E182+50
TA-18-123	PL-123	ROAD BLOCK		S 47+50 E192+50
TA-18-124	PL-124	ROAD BLOCK		S 47+50 E192+50
TA-18-125	PL-125	ROAD BLOCK		S 42+50 E195+00
TA-18-126	PL-126	POWER PEDESTAL		S 45+00 E192+50
TA-18-127	PL-127	PULSED ACCEL. BUILDING		S 42+50 E195+00
TA-18-128	PL-128	ASSEMBLY COVER		S 50+00 E182+50
TA-18-129	PL-129	REACTOR SUB-ASSY. BLDG.		S 45+00 E197+50
TA-18-130	PL-130	MANHOLE	ELECTRICAL	S 42+50 E195+00
TA-18-131	PL-131	TANK	SHIELD	S 50+00 E182+50
TA-18-132	PL-132	CONTROL BOX	ELECTRICAL	S 47+50 E192+50
TA-18-133	PL-133	CONTROL BOX	ELECTRICAL	S 47+50 E192+50
TA-18-134	PL-134	CONTROL BOX	ELECTRICAL	S 47+50 E192+50
TA-18-135	PL-135	DISTRIBUTION BOX	SANITARY	S 47+50 E197+50
TA-18-136	PL-136	UNIT SUBSTATION		S 50+00 E200+00
TA-18-137	PL-137	BRIDGE		S 45+00 E192+50
TA-18-138	PL-138	WAREHOUSE		S 50+00 E197+50
TA-18-139	PL-139	CONTROL BOX	ELECTRICAL	S 42+50 E192+50
TA-18-140	PL-140	TRANSFORMER STATION		S 45+00 E195+00
TA-18-141	PL-141	ULTRA-SONIC CLEANING BLDG		S 42+50 E197+50
TA-18-142	PL-142	SUBSTATION		S 42+50 E195+00
TA-18-143	PL-143	MANHOLE	ELECTRICAL	S 42+50 E195+00
TA-18-144	PL-144	MANHOLE	ELECTRICAL	S 42+50 E197+50
TA-18-145	PL-145	MANHOLE	TELEPHONE	S 42+50 E197+50
TA-18-146	PL-146			
TA-18-147	PL-147	OFFICE BUILDING		S 42+50 E197+50
TA-18-148	PL-148	TRANSFORMER STATION		S 42+50 E197+50
TA-18-149	PL-149	TRANSFORMER STATION		S 42+50 E197+50
TA-18-150	PL-150	TRANSFORMER STATION		S 50+00 E197+50
TA-18-151	PL-151		CANCELLED	
TA-18-152	PL-152	TANK	SEPTIC	S 42+50 E197+00
TA-18-153	PL-153	MANHOLE	SANITARY	S 42+50 E195+00
TA-18-154	PL-154	MANHOLE	SANITARY	S 45+00 E195+00
TA-18-155	PL-155	MANHOLE	SANITARY	S 45+00 E195+00
TA-18-156	PL-156	MANHOLE	SANITARY	S 45+00 E197+50
TA-18-157	PL-157	MANHOLE	SANITARY	S 45+00 E195+00
TA-18-158	PL-158	MANHOLE	SANITARY	S 47+50 E200+00
TA-18-159	PL-159	MANHOLE	SANITARY	S 47+50 E202+50
TA-18-160	PL-160	MANHOLE, SANITARY	410' SE OF STRUCT. 159	
TA-18-161	PL-161	MANHOLE, SANITARY	460' SE OF STRUCT. 160	
TA-18-162	PL-162	LAGOON, SANITARY	40' N PL-161, N OF PAJARITO RD	
TA-18-163	PL-163		REMOVED 1968	
TA-18-164	PL-164		REMOVED 1968	
TA-18-165	PL-165		CANCELLED	
TA-18-166	PL-166		CANCELLED	
TA-18-167	PL-167		CANCELLED	
TA-18-168	PL-168	DYNAMIC CRITICAL ASSAY FAC.	BLDG	S 37+50 E185+00
TA-18-169	PL-169	MANHOLE, SANITARY	425' SE OF PL-161	
TA-18-170	PL-170	MANHOLE, SANITARY	318' SE OF PL-169	
TA-18-171	PL-171	MANHOLE, SANITARY	205' SE OF PL-170	
TA-18-172	PL-172	MANHOLE, SANITARY	333' SE OF PL-171	
TA-18-173	PL-173	MANHOLE, SANITARY	425' SE OF PL-172	
TA-18-174	PL-174	MANHOLE, SANITARY	425' SE OF PL-173	
TA-18-175	PL-175	MANHOLE, SANITARY	380' SE OF PL-174	
TA-18-176	PL-176	MANHOLE, SANITARY	360' SE OF PL-175	
TA-18-177	PL-177	MANHOLE, SANITARY	360' SE OF PL-176	
TA-18-178	PL-178	MANIFOLD		S 50+00 E197+50
TA-18-179	PL-179	TRANSFORMER STATION		S 37+50 E185+00
TA-18-180	PL-180	DISTRIBUTION BOX	60' SE OF PL-177	
TA-18-181	PL-181	FLOW CONTROL BOX, SANITARY	65' SE OF PL-180	
TA-18-182	PL-182	MANHOLE, WATER		S 25+00 E190+00
TA-18-183	PL-183		CANCELLED	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 18-8

TA-18 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
18	9-21-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-18 PAJARITO LABORATORY

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 11-2-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 9-21-83; SHEET NO 1 of 2; DRAWING NO ENG-R 5112

DECLASSIFIED

TA-19

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 19 was known as the East Gate Laboratory, and operations were discontinued after about 1956. All buildings at the site have been removed. The site was used for a variety of experiments, some of which utilized radioactive sources and chemicals.

The property on which TA-19 was located is at about 6,910 feet asl. It is located on the eastern end of the undissected top of East Mesa, east of the Los Alamos Airport, in the northeastern section of the Laboratory. The mesa is bounded on the north by Pueblo Canyon and on the south by a small tributary of Pueblo Canyon. Canyon walls are steep at the margins of the mesas. TA-19 lies on welded Bandelier Tuff.

The area is in the Pinon-Juniper overstory vegetation zone. Soils have not been surveyed in this area and may not be developed at this site.

At TA-19, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,850 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground-water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer. Runoff may be the only significant means to transport any surface contamination from the site.

DRAFT

19-001 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-19
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1944 - 1962

UNIT INFORMATION

This septic tank, TA-19-6, which remains on site, is believed to have served only the guard house.

WASTE INFORMATION

The septic tank is believed to have received only sanitary waste, however, detailed information is lacking.

RELEASE INFORMATION

There are no known releases of hazardous waste associated with this unit.

DRAFT

19-002 CANYON FLOOR

SUMMARY

LOCATION: TA-19
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: UNKNOWN

UNIT INFORMATION

This site is located on the canyon floor at the north side of TA-19. It appears to have received building debris that was pushed over the edge of the mesa. The area is estimated to be about 100' x 10'.

WASTE INFORMATION

The debris appears to consist of concrete and other rubble generated during decommissioning of TA-19.

RELEASE INFORMATION

There are no known releases associated with this unit.

DRAFT

TA-19 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
19-001	19-1
19-002	19-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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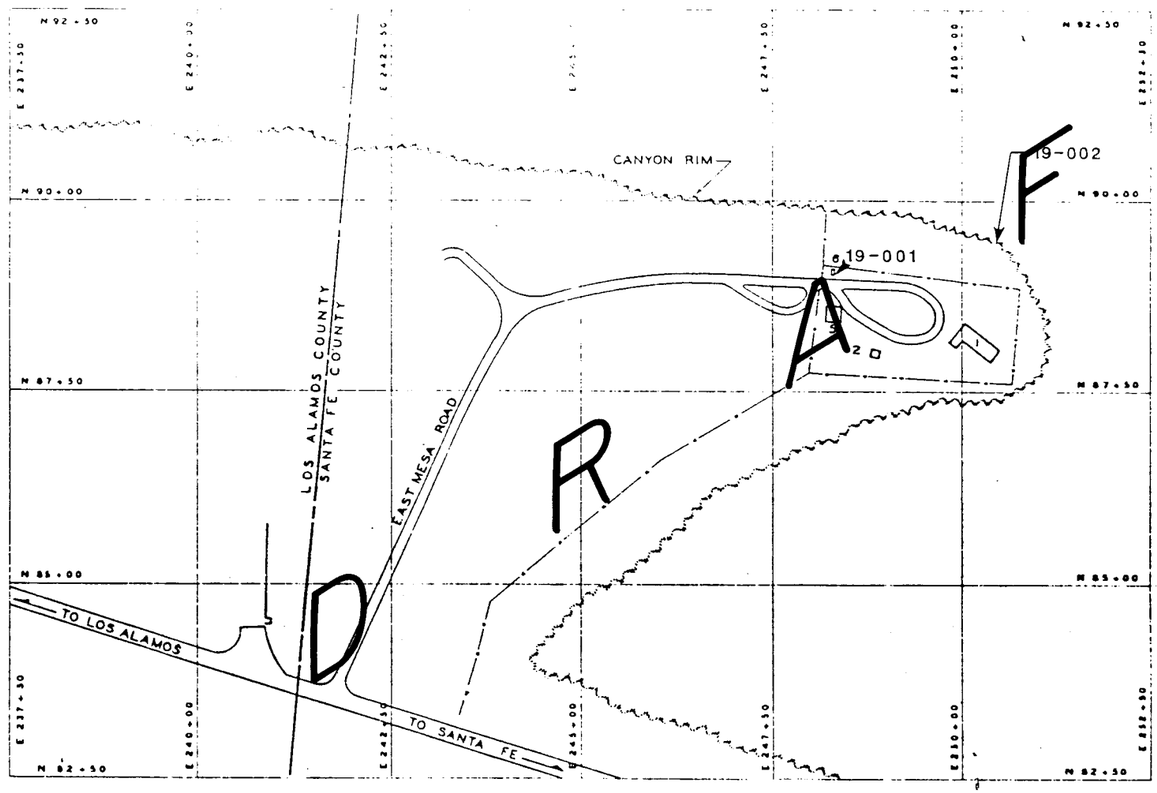
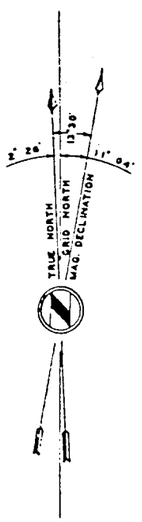
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-19-1	EGL-1	LABORATORY BLDG.
TA-19-2	EGL-2	BATTERY BLDG.
TA-19-3	EGL-3	GUARD BLDG (REMOVED)
TA-19-4	EGL-4	LATRINE (REMOVED)
TA-19-5	EGL-5	RETREAT BLDG.
TA-19-6	EGL-6	SEPTIC TANK (SANITARY)





UNCLASSIFIED

EXPLANATION

19-001 SWMU LOCATION

FIGURE 19-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-19

NO.	DATE	REVISIONS	BY CHKD
8	3-17-57	REVISED TO STATUS OF 7-1-57	
7	10/3/55	REDRAWN TO STATUS OF JULY 1, 1955	NOBLAS

LOS ALAMOS SCIENTIFIC LABORATORY
UNIVERSITY OF CALIFORNIA
ENGINEERING DEPARTMENT - LOS ALAMOS N.M.

STRUCTURE LOCATION PLAN
TA-19 EAST GATE LABORATORY

CHECKED DESIGNER | RECOMMENDED GROUP LEADER | APPROVED ENGG. DIV. LEADER

DRAWN N. BYERS | DATE 10/3/55 | SCALE | SHEET | ENG. R 13

AUTHORIZED FOR HEALTH SAFETY PROT.

TA-20

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 20 situated in Sandia Canyon was abandoned in the late 1940's so that East Jemez Road could be built. The remaining buildings at the area are used as a firing range for Laboratory security forces. The area had been used to test initiators, devices used to add neutrons to nuclear explosions. High explosives, metals, possibly short-lived radioactive materials, and uranium were used on site. Some disposal pits associated with TA-20 may be present in the canyon.

DRAFT

SUMMARY

LOCATION: TA-20
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1945

UNIT INFORMATION

As many as three landfills may have been created for the disposal of contaminated metal scrap, gun barrels, and other gun pieces. Their exact locations are not known, although the general areas have been identified. Area 1 [20-001(a)] is thought to contain a pit not more than 5 feet deep, whereas Areas 2 and 3 [20-001(b) and (c) respectively] were excavated by a bulldozer in a trench configuration. Preliminary data obtained from a geophysical survey provide no indication of Area 1 but did find anomalies in the suspected areas of 2 and 3. Results from the geophysical survey have not been obtained.

WASTE INFORMATION

Possible waste constituents in these disposal areas may include depleted uranium, HE, and beryllium. Polonium and strontium are additional possible contaminants. Any polonium initially present has since decayed away.

RELEASE INFORMATION

There is no evidence of release from these units.

DRAFT

SUMMARY

LOCATION: TA-20
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/ DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1944 - 1947

UNIT INFORMATION

Structure TA-20-6 was a steel-lined pit 20' x 20' x 20' used for contained shots using 25 lbs or 200 lbs of HE. The pit was removed by 1955, and was possibly buried in Area 3 (see 20-001). Apparently at least a few other shots were done in the open. One of these shots involving 500 lb. of HE went low order.

WASTE INFORMATION

HE, polonium (now decayed out), strontium-90, beryllium, and nickel were used in the initiator development tests. Uranium may also have been used in some of the experiments.

RELEASE INFORMATION

Slightly elevated levels of radioactivity have been measured in the area of TA-20-6. The pieces of HE from a low order shot were removed during several survey sweeps.

DRAFT

SUMMARY

LOCATION: TA-20
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/ DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1944 - 1945

UNIT INFORMATION

Testing initiators involved the firing of Navy guns against steel plates along the cliffs. Structures associated with the site (TA-20-2 [20-003(a)], TA-20-13 [20-003(b)], TA-20-16 [20-003(c)], and TA-20-29 [20-003(d)]) were removed by 1955.

WASTE INFORMATION

Components may have included beryllium, nickel, strontium, uranium, and tungsten as well as HE.

RELEASE INFORMATION

One former LANL employee indicated possible contamination on the fluffed material from the cliffs. A recent survey found levels of radioactivity to be slightly above background at TA-20-29.

DRAFT

SUMMARY

LOCATION: TA-20
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/ DISPOSAL
OPERATIONAL STATUS: ACTIVE/DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Septic Tank TA-20-27 [20-004(a)] operated from about 1944 to 1947 and has been removed. No structural data is available on this tank. Tank TA-20-49 [20-004(b)] is now believed to be numbered TA-0-276 according to Pan Am records which indicate that it serves up to 30 people a few hours per day and has a capacity of 540 gallons. Its overflow goes to a drain line.

WASTE INFORMATION

The septic tanks receive sanitary waste. They may have received chemicals and solvents in the past.

RELEASE INFORMATION

Data on possible hazardous releases are not available.

DRAFT

TA-20 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
20-001	
20-002	20-1
20-003(a)	20-1
20-003(b)	20-1
20-003(c)	20-1
20-003(d)	20-1
20-004(a)	20-1
20-004(b)	20-2

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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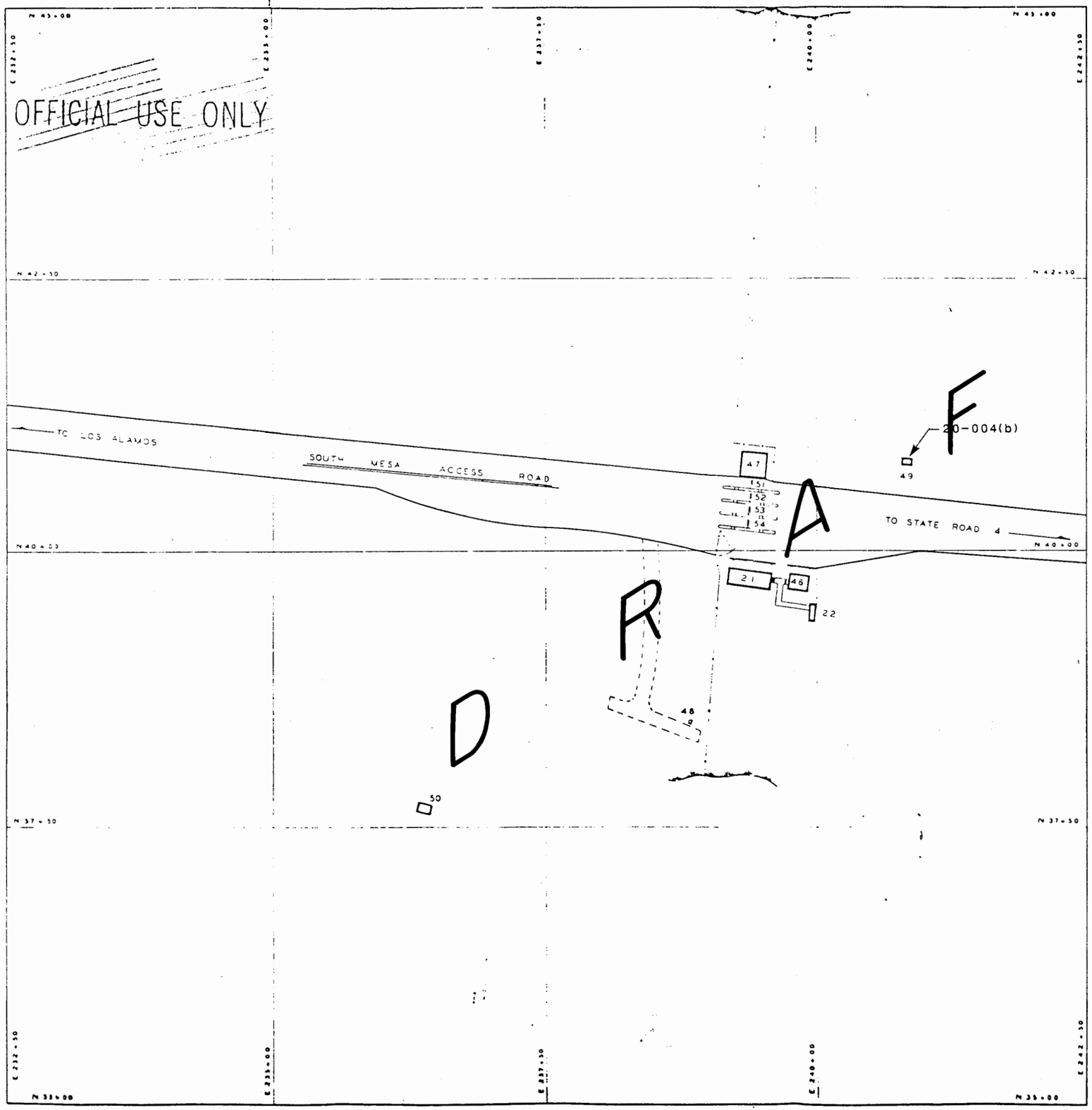

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-20-1	SAN-1	LABORATORY (REMOVED)
TA-20-2	SAN-2	CONTROL BUILDING (REMOVED)
TA-20-3	SAN-3	MANHOLE (ABANDONED)
TA-20-4	SAN-4	MANHOLE (ABANDONED)
TA-20-5	SAN-5	MANHOLE (ABANDONED)
TA-20-6	SAN-6	RECOVERY PIT (REMOVED)
TA-20-7	SAN-7	DUMBO & MOUNT (REMOVED)
TA-20-8	SAN-8	PLATFORM & HOIST (REMOVED)
TA-20-9	SAN-9	FOUNDATION RAMP & BIN (REMOVED)
TA-20-10	SAN-10	BARRICADE (REMOVED)
TA-20-11	SAN-11	HOT STORAGE (REMOVED)
TA-20-12	SAN-12	STORAGE (ABANDONED)
TA-20-13	SAN-13	20 MM GUN BUILDING (REMOVED)
TA-20-14	SAN-14	MAGAZINE (ABANDONED)
TA-20-15	SAN-15	WATER TANK (REMOVED)
TA-20-16	SAN-16	OLD GUNSIGHT INSTALLATION (REMOVED)
TA-20-17	SAN-17	CUT OFF SHACK (REMOVED)
TA-20-18	SAN-18	STORAGE BUILDING (REMOVED)
TA-20-19	SAN-19	STORAGE BUILDING (REMOVED)
TA-20-20	SAN-20	GUARD HOUSE (REMOVED)
TA-20-21	SAN-21	PASS OFFICE
TA-20-22	SAN-22	LATRINE
TA-20-23	SAN-23	ROAD BLOCK (ABANDONED)
TA-20-24	SAN-24	LATRINE (REMOVED)
TA-20-25	SAN-25	BARRICADE (REMOVED)
TA-20-26	SAN-26	BARRICADE (REMOVED)
TA-20-27	SAN-27	SEPTIC TANK (ABANDONED)
TA-20-28	SAN-28	CONDUIT MANHOLE (ABANDONED)
TA-20-29	SAN-29	PLATFORM & POLE (REMOVED)
TA-20-30	SAN-30	SUBSTATION (REMOVED)
TA-20-31	SAN-31	GUARD HOUSE (REMOVED)
TA-20-32	SAN-32	PULL BOX DC (ABANDONED)
TA-20-33	SAN-33	PULL BOX DC (ABANDONED)
TA-20-34	SAN-34	PULL BOX DC (ABANDONED)
TA-20-35	SAN-35	PULL BOX DC (ABANDONED)
TA-20-36	SAN-36	PULL BOX DC (ABANDONED)
TA-20-37	SAN-37	PULL BOX DC (ABANDONED)
TA-20-38	SAN-38	PULL BOX DC (ABANDONED)
TA-20-39	SAN-39	PULL BOX DC (ABANDONED)
TA-20-40	SAN-40	PULL BOX DC (ABANDONED)
TA-20-41	SAN-41	PULL BOX DC (ABANDONED)
TA-20-42	SAN-42	PULL BOX DC (ABANDONED)
TA-20-43	SAN-43	CABLE SUSPENSION (ABANDONED)
TA-20-44	SAN-44	20 MM HUTMENT (REMOVED)
TA-20-45	SAN-45	MAGAZINE (REMOVED)
TA-20-46	SAN-46	LECTURE BUILDING
TA-20-47	SAN-47	GUARD HOUSE (NEW STATION 330)
TA-20-48	SAN-48	WATER TANK (UNDERGROUND)
TA-20-49	SAN-49	SEPTIC TANK
TA-20-50	SAN-50	WATER TANK HOUSE (ABANDONED)
TA-20-51	SAN-51	ROAD BLOCK
TA-20-52	SAN-52	ROAD BLOCK
TA-20-53	SAN-53	ROAD BLOCK
TA-20-54	SAN-54	ROAD BLOCK

FIGURE 20-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-20

UNCLASSIFIED

EXPLANATION

20-004 SWMU LOCATION

NO. DATE REVISIONS BY CHK.

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

STRUCTURE LOCATION PLAN
TA-20 SANDIA CANYON SITE

CHECKED DESIGNER RECOMMENDED GROUP LEADER APPROVED ENG. DEPT. OFFICE

DRAWN N. BYERS DATE 9/14/55 DRAWING NO. ENG-R 138

AUTHORIZED FOR

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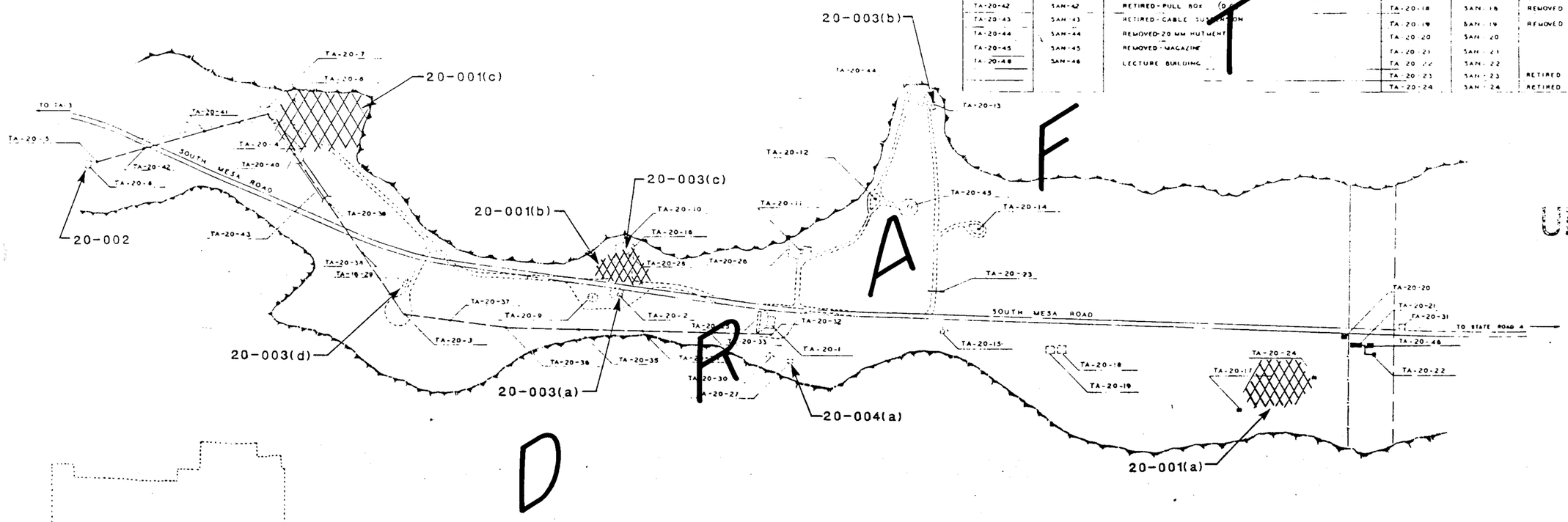
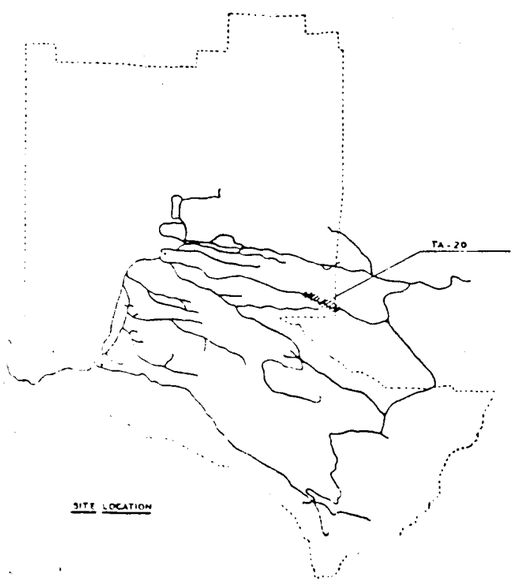
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-20-25	SAN-25	REMOVED- BARRICADE
TA-20-26	SAN-26	REMOVED- BARRICADE
TA-20-27	SAN-27	RETIRED - SEPTIC TANK
TA-20-28	SAN-28	RETIRED - CONDUIT MANHOLE
TA-20-29	SAN-29	REMOVED- PLATFORM & YORE
TA-20-30	SAN-30	REMOVED- SUBSTATION (3-10 KVA)
TA-20-31	SAN-31	REMOVED - GUARD HOUSE
TA-20-32	SAN-32	RETIRED - PULL BOX (D.C.)
TA-20-33	SAN-33	RETIRED - PULL BOX (D.C.)
TA-20-34	SAN-34	RETIRED - PULL BOX (D.C.)
TA-20-35	SAN-35	RETIRED - PULL BOX (D.C.)
TA-20-36	SAN-36	RETIRED - PULL BOX (D.C.)
TA-20-37	SAN-37	RETIRED - PULL BOX (D.C.)
TA-20-38	SAN-38	RETIRED - PULL BOX (D.C.)
TA-20-39	SAN-39	RETIRED - PULL BOX (D.C.)
TA-20-40	SAN-40	RETIRED - PULL BOX (D.C.)
TA-20-41	SAN-41	RETIRED - PULL BOX (D.C.)
TA-20-42	SAN-42	RETIRED - PULL BOX (D.C.)
TA-20-43	SAN-43	RETIRED - CABLE SUSPENSION
TA-20-44	SAN-44	REMOVED- 20 MM HUTMENT
TA-20-45	SAN-45	REMOVED - MAGAZINE
TA-20-46	SAN-46	LECTURE BUILDING

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-20-1	SAN-1	REMOVED LABORATORY
TA-20-2	SAN-2	REMOVED CONTROL BUILDING
TA-20-3	SAN-3	RETIRED MANHOLE
TA-20-4	SAN-4	RETIRED MANHOLE
TA-20-5	SAN-5	RETIRED MANHOLE
TA-20-6	SAN-6	REMOVED RECOVERY PIT
TA-20-7	SAN-7	REMOVED DUMBO & MOUNT
TA-20-8	SAN-8	REMOVED PLATFORM & HOIST
TA-20-9	SAN-9	REMOVED FOUNDATION, RAMP & BIN
TA-20-10	SAN-10	REMOVED BARRICADE
TA-20-11	SAN-11	REMOVED HOT STORAGE
TA-20-12	SAN-12	RETIRED STORAGE
TA-20-13	SAN-13	REMOVED 20 MM GUN BUILDING
TA-20-14	SAN-14	RETIRED MAGAZINE
TA-20-15	SAN-15	REMOVED WATER TANK
TA-20-16	SAN-16	REMOVED OLD GUN SITE INSTALLATION
TA-20-17	SAN-17	RETIRED CUT-OFF SHACK
TA-20-18	SAN-18	REMOVED STORAGE BUILDING
TA-20-19	SAN-19	REMOVED STORAGE BUILDING
TA-20-20	SAN-20	GUARD HOUSE STATION [illegible]
TA-20-21	SAN-21	PASS OFFICE
TA-20-22	SAN-22	LATRINE
TA-20-23	SAN-23	RETIRED - ROAD BLOCK
TA-20-24	SAN-24	RETIRED - LATRINE





NORTH (MAGNETIC)

EXPLANATION

20-001 SWMU LOCATION

FIGURE 20-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-20

OFFICIAL USE ONLY

UNCLASSIFIED

REV.		AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY
0	GENERAL REVISION TO STATUS OF [illegible] NO. 8 7-11-51	HEALTH SAFETY FIRE PR COMM PROC SEC	DEPARTMENT OF ENGINEERING CONSTRUCTION & MAINTENANCE STRUCTURE LOCATION PLAN TA-20 SANDIA CANYON SITE
1	GENERAL REVISION TO STATUS OF JAN. 1951 [illegible]		SCALE 1" = 200' · DRAWN BY: ROMERO · DATE 3-31-90 · CHKD BY: [illegible] · DATE [illegible] · DWG NO. [illegible]

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Project No. 301215.02.01A
December 1988

Volume III (TA-21 through TA-39)

Solid Waste Management Units Report

Los Alamos National Laboratory
Los Alamos, New Mexico

Los Alamos National Laboratory
Environmental Surveillance Group HSE-8
Los Alamos, New Mexico 87545

RESPONSIVE TO THE NEEDS OF ENVIRONMENTAL MANAGEMENT

TA-21

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 21 is a complex facility incorporating many varied activities in separate buildings. These activities include:

- Plumbing and electrical repair shop
- Preparation of cold salts for plutonium metal production
- Electronic equipment repair
- Geophysical research
- Labeled compounds preparation for biological/health research and biological studies
- Radioactive waste treatment
- Waste capacitors, transformers, and oils storage
- Tritium handling, storage, and usage research
- Basic research
- TRU chemistry
- Storage.

Several laboratory material disposal areas exist at TA-21.

TA-21 lies at elevations between 7,100 and 7,150 feet asl. It is located on the eastern end of South Mesa which is bifurcated by DP Canyon, a branch canyon of Los Alamos Canyon, separating TA-21 from the Los Alamos Airport to the north. The mesa is bounded on the south by Los Alamos Canyon. Canyon walls are steep or cliffs in this area. TA-21 lies on welded Bandelier Tuff. The area is in the Pinon-Juniper overstory vegetation zone. The soil is described as Hackroy sandy loam. The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy series has a moderate water erosion hazard (0.65 to 1.8 cm soil/yr, from an unprotected surface) and medium runoff (0.14 to 0.51 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

At TA-21, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,900 feet asl. There is over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer (IT, 1987).

DRAFT

21-001 RADIOACTIVE WASTE CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

This unit is described in the RFA as a drum storage area used to hold sludge from the TA-21 industrial wastewater treatment plant. There was a tarp covering the drums during the VSI. These drums are stored here prior to transfer to TA-54. A November 1988 field survey found 57 drums southwest of TA-21-257

WASTE INFORMATION

The waste consists of radioactive sludges. LANL staff with knowledge of the area believe that hazardous constituents may be present. The drums southwest of Building 257 are empty.

RELEASE INFORMATION

No known releases of hazardous wastes from this unit have occured.

DRAFT

21-002 CONTAINER STORAGE AREAS

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ? - 1988

UNIT INFORMATION

These container storage areas were observed during the VSI and by CEARP. Abandoned drums were identified during the VSI. There were several old 55-gallon drums of undefined purpose lying on their sides on the ground inside a fenced area. The drums are believed to be empty. The CEARP notes that additional drums and gas cylinders are stored in several locations throughout TA-21, some of which are leaking. A recent field survey found that most of the drums have been removed. Based on the LANL container storage area database, these areas are no longer active.

WASTE INFORMATION

The removed containers were sampled and then disposed of or stored at another area.

RELEASE INFORMATION

Some of the drums were observed to be leaking in the past.

DRAFT

21-003 PCB STORAGE AREA

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1981 - PRESENT

UNIT INFORMATION

This unit consists of drum storage at Building 61 and at a nearby bermed asphalt pad. Up to 20 boxes of capacitors, 5 drain-type transformers and 30 drums of PCB-contaminated oil may be held here. Bulk storage consists of (1) 4000 gallon tank and (1) 2000 gallon tank that contain >50 ppb PCBs. The oil from the bulk storage and capacitors is shipped to Enseco in Eldorado, AK for incineration and the transformer oil is shipped to GNL Recovery (Unison) in Ashtabula, Ohio. The container storage area is expected to be replaced in 1989.

WASTE INFORMATION

The waste consists of oil containing PCBs.

RELEASE INFORMATION

Soil around the storage pad is stained and has a sheen.

DRAFT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): ABOVEGROUND TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Aboveground tank TA-21-335 [21-004(a)] is designed to receive any liquids discharged from TA-21-21 in the event of an emergency release, i.e. if the fire sprinklers in the building are used. To date, no liquid has been discharged to this tank. The tank is 8' in diameter and 16' long. It was installed in 1974. In addition to this tank, there are two tanks [21-004(b) and (c)] located in a bermed area north of sump/pump TA-21-223 and TA-21-213. These tanks receive liquid from TA-21-223 if the pump is inoperative or there is s similar problem. These tanks were installed in the 1970's. They are surrounded by an asphalt berm.

WASTE INFORMATION

Currently, no waste has been discharged to Tank TA-21-335. When the tank is used, the waste may contain radionuclides. The waste discharged to the tanks from TA-21-223 is industrial waste from DP East. It may contain tritium. Chemical contaminants to these tanks have not been documented.

RELEASE INFORMATION

There has been no release of any kind from any of these tanks.

DRAFT

21-005 ACID PIT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1946 - 1967

UNIT INFORMATION

Structure TA-21-70, an acid pit, was used to dispose of classified correspondence by digesting the paper in concentrated acid. The pit was southeast of existing Building TA-21-30 shown on a 1957 engineering drawing. It was built of reinforced concrete and was 3' x 3' x 4' deep with a sheet-iron cover. The pit and contents were removed in 1967 and taken to the contaminated waste disposal site at TA-54.

WASTE INFORMATION

The waste disposed of in this unit consisted of paper dissolved in acid.

RELEASE INFORMATION

There are no known releases.

DRAFT

21-006 UNDERGROUND SEEPAGE PITS

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's - 1950's

UNIT INFORMATION

The following five seepage pits were used in TA-21. 1) An underground seepage pit for liquid disposal between TA-21-2 and -3 [21-006(a)] received liquids from the Hanford container washing operations. The lab's "Radioactive Waste Management Site Plan" of 1978 indicates that estimated radioactivity was high and plutonium is the principle radionuclide. 2) A gravel seepage pit [21-006(b)] is believed to have existed north of the main DP West Complex near TA-21-90. 3) A seepage pit [21-006(c)] on the south side of the complex, possibly TA-21-118, discharged to Los Alamos Canyon. TA-21-118 was built in 1945 and was constructed of brick. It was 13' x 4' x 6' deep with a wood cover. 4) A fourth pit, TA-21-84 [21-006(d)], was believed to have been located 15 feet outside the door of Room 322 of Building 3. It was reported that the pit received plutonium, ethylene glycol, and "phosphourous acid". 5) A stone pit [21-006(e)] possibly near TA-21-272 was reported to be contaminated.

WASTE INFORMATION

Wastewater discharged to the pits contained plutonium and is suspected to have contained solvents, hydrofluoric acid and nitric acid with specific chemicals and concentrations probably varying in the different pits. Waste discharged to the stone pit probably contained radionuclides.

RELEASE INFORMATION

It is unknown whether release of hazardous wastes have occurred from the pit between TA-21-2 and -3. Although there is no documentation that hazardous constituents have been released from this pit, LANL staff with knowledge of these facilities believe that hazardous constituents could have been released. There are reports of discharges from at least some of the pits to both the north and south sides of Los Alamos Canyon.

DRAFT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1960's - 1970's

UNIT INFORMATION

In the 1960's and 1970's, several incinerators called salamanders located at DP West were used to burn various types of oils and fats contaminated with radionuclides. The salamanders were associated with the radioactive waste treatment facility. According to LANL staff, the units were long trays used for open burning of waste. These incinerators have been removed.

WASTE INFORMATION

The incinerated waste consisted of oils contaminated with radionuclides.

RELEASE INFORMATION

Oil spills from the salamanders are known to have occurred.

DRAFT

21-008 INCINERATOR

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ? - 1977

UNIT INFORMATION

The plutonium facility at DP West operated a small "glovebox" incinerator to recover certain elements. During operation the ash was leached for recovery. Spent solutions went to the liquid waste treatment facility. Off-gases were treated for radionuclide removal before they were released to the environment. The incinerator was removed during the building decommissioning.

WASTE INFORMATION

The waste was mixed radioactive and hazardous materials.

RELEASE INFORMATION

A small amount of radioactivity and oxides of nitrogen were released as off-gases and particulates from the stack.

DRAFT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT/TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1948 - 1965

UNIT INFORMATION

The old waste treatment lab, TA-21-33, was a wood frame building, 16' x 48' x 12' high ceiling. It was found to be free of contamination except for two pipes under the building. An engineering document shows that the building was removed by controlled burning, and the remains were taken for burial in 1965 to MDA-G but does not indicate whether the pipes were removed.

WASTE INFORMATION

The only known residual waste is associated with the pipes which may remain. The waste has not been characterized in detail.

RELEASE INFORMATION

It is unknown whether hazardous wastes have been discharged through the pipes.

DRAFT

21-010 INDUSTRIAL LIQUID WASTE TREATMENT FACILITY

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1952 - 1967

UNIT INFORMATION

The liquid waste treatment facility, TA-21-35, and its associated tanks, piping, etc. [21-010(a)] began operation in 1952. A new facility was put in operation in 1967. The old plant was found to have loose alpha contamination and its waste storage tanks and waste processing tank were highly contaminated. The old building, tanks and piping were removed. This included TA-21-93, -145, -147, -185, -192, -255, and -271 [21-010 (b), (c), (d), (e), (f), (g), (h), respectively]. TA-21-145 and -147 were 500 gallon steel tanks installed in 1959; TA-21-185 was a 390 gallon tank that was installed in 1956. All material and tanks removed from the decommissioning of the old facility were hauled to the radioactive disposal site at MDA-G. The raw waste storage tanks and cement silo were moved to the new plant, DP-257, and incorporated into its operation. The old facility had a raw holding tank which was connected to a series of acid waste lines and a septic tank. The treatment plant, TA-21-35, had an outfall to the canyon.

WASTE INFORMATION

The facility treated liquid radioactive wastes generated at DP-West. The waste contained fluorine, iodine, cadmium, beryllium, lead, mercury, sodium, nitrates, chlorine, in addition to radionuclides. The liquid probably contained solvents and other organics from the various laboratory operations including solvent extraction.

RELEASE INFORMATION

Most equipment and the building have been removed, although the tanks and silos are in use at the new facility. The area had spills and leaks associated with it and radioactivity in the downhill area below the facility is reported to be above background. LANL staff believe that chemical and radioactive contamination below the tanks is likely. There is no report of soil removal below these tanks. The outfall was into the canyon to the north of the site. This canyon outfall and the downstream areas contain residual radionuclides and chemicals discharged during operation.

21-011 NEW INDUSTRIAL WASTE TREATMENT PLANT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1967 - PRESENT

UNIT INFORMATION

After the waste treatment plant at TA-21-35 was closed in 1967, a new waste treatment facility began operation at TA-21-257 [21-011(a)]. Waste lines link DP East with DP West which ties to the new waste treatment facility. Sump TA-21-223 [21-011(b)], built in 1965 serves as the pump house for transporting DP East waste to the treatment plant. The plant includes a clarifier, a flocculator tank, four vertical storage tanks, a pumping station, several sumps that are part of MDA-T TA-22-120 [21-011(c)], several aboveground acid tanks TA-21-110, -111, -112, -113, -288, -289 [21-011(d), (e), (f), (g), (h), (i), respectively], and several chemical holding tanks. Raw waste storage tanks and a cement silo were moved from the old waste treatment plant (see 21-009). Tanks TA-21-110, -111, -112, -113, and -120 were acid holding tanks that were installed in 1952 at old waste treatment plant and moved to TA-21-257 in 1967. Tank TA-21-120 had a 4000 gallon capacity. Tanks TA-21-288 (1000 gallon) and -289 (1600 gallon) were installed in 1968. Presently the liquids are piped to TA-50 for release; however, an outfall from the plant can discharge to the canyon. The outfall is under a NPDES permit and is designated 050.

WASTE INFORMATION

The treatment plant handles radioactive-mixed waste.

RELEASE INFORMATION

Before the liquids were delivered to TA-50, an outfall into the canyon north of the site discharged the liquids from the plant. The receiving canyon contains a radionuclide and chemical inventory from this practice. Sump TA-21-223 may have discharged to the canyon on occasion through a drain pipe before the holding tanks were installed.

DRAFT

21-012 DRY WELL

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): WELL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: UNKNOWN
PERIOD OF USE: ?

UNIT INFORMATION

There was a dry well near the steam plant (TA-21-357) that received liquids from the steam plant.

WASTE INFORMATION

The liquid from the plant could have contained chromium; further data characterizing the waste is not available.

RELEASE INFORMATION

There is no information currently available regarding releases from this unit.

DRAFT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

There is a small surface disposal area [21-013(a)] possibly consisting of sand from the drying beds, TA-21-230, of the sanitary waste treatment plant. This area is located near the north edge of the canyon near the plant. Normally the sludge from the plant is taken to the contaminated disposal facility at TA-54. A second disposal area [21-013(b)] was noted in Los Alamos Canyon near MDA-V during the CEARP field reconnaissance. The area contained building debris. A third possible disposal area [21-013(c)] is northeast of TA-21-209, just south of the road to the sanitary treatment plant.

WASTE INFORMATION

The waste in the area at the north canyon edge probably consists of sand from the drying beds at the sanitary waste treatment plant. Further information characterizing the waste is not available. The surface disposal area in Los Alamos Canyon contained asphalt, concrete pipe, reinforcing rods, booties, and a tank. The area by TA-21-209 is disturbed and appears to contain building debris. It is unknown if there is subsurface burial here.

RELEASE INFORMATION

There is no information available indicating the release of hazardous waste from these surface disposal areas.

DRAFT

21-014 MATERIAL DISPOSAL AREA A

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL/STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1944-1947, 1969-1978

UNIT INFORMATION

MDA-A is about 1.25 acres and consists of 5 pits and 2 underground storage tanks known as the "General's Tanks" (TA-21-107 and -108). Waste solutions containing plutonium and americium were stored in these tanks with the hope that some day chemical recovery processes would improve so that the plutonium in them could be recovered. Liquids in the tanks were removed for processing in 1983. The tanks contained a few inches of semisolid precipitate in 1986. There is some evidence that rainwater has been leaking into the tanks since recovery operations. Site stabilization was done in FY1985 and included sealing and covering openings in the tanks to prevent further water entry, removing surface contamination, adding cover material and recontouring and reseeding the area. The reseeding operation was largely unsuccessful. The four small disposal pits are believed to contain solid waste contaminated with polonium (now decayed away), trace amounts of beta-gamma activity, and probably some trace amounts of long-lived alpha-emitters (probably plutonium). These pits were used between 1944 and 1947. A larger pit, constructed in 1969, contains building debris from the decommissioning of several facilities at TA-21. The pit was covered in May 1978. Additionally, hundreds of drums of radioactive iodide waste were stored on the surface at MDA-A; some of the drums leaked. The drums were taken to TA-45 in 1960. Residual radioactive iodide would have decayed by now. The site shares a common watershed and is on the same mesa as MDA-T and MDA-U.

WASTE INFORMATION

The waste is described as radioactive waste solutions containing plutonium, americium, and polonium. LANL staff indicate that the waste may also have included solvents and other chemicals.

RELEASE INFORMATION

No releases of hazardous wastes are known to have occured from this landfill. Radiation sampling in 1974 in the area around the "General's Tanks" resulted in gross-alpha and gross-beta measurements that were indistinguishable from background samples. The site undergoes routine radiological monitoring under IWMP.

DRAFT

21-015 MATERIAL DISPOSAL AREA B

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1945 - 1948

UNIT INFORMATION

MDA-B is approximately 6 acres and is an inactive landfill located south of DP Road near TA-21. It is not clearly documented whether the unit consists of several pits or one large pit covered and expanded as necessary. Chemical wastes were buried in slit trenches 3' to 4' deep, 2' wide and <40' long along the eastern edge of the unit. A section of the western portion has been paved and the surface has been leased to Los Alamos County, which in turn rents parking places to store trailers, old cars, etc. Erosion on the south perimeter is a continuing problem. The surface of the eastern part was extensively renovated in 1982 and replanted in 1984. All vegetation was removed and it was divided into two areas for treatment. The control was adding (from the top) a 6" layer of top soil followed by 30" of crushed tuff with 6" of top soil below the tuff. Grass plugs (sand dropseed) and rabbit brush were then planted. The other treatment, starting from the top, was to spread 6" of topsoil, 18" of crushed tuff and 2' of cobble (for a biobarrier) and 6" top soil on the bottom. Grass plugs and rabbit brush were also planted in the area. The effectiveness of this new trench cap is being studied by the LANL Environmental Science Group (HSE-12). In addition to the known fenced area of 6 acres, aerial photos show possible trenches to the south of the western extention of MDA-B. Whether these actually were trenches or whether they were part of this burial area is not known. No geophysical surveys have been conducted in this area.

WASTE INFORMATION

The wastes consist primarily of solids with various radioactive contaminants such as plutonium, polonium (now decayed away), uranium, americium, curium and actinium. At least one truck contaminated with fission products from the Trinity test is buried in the pit. The slit trenches contain old bottles of organics, perchlorates, ethers, solvents, etc. Lecture bottles of mixtures, spent chemicals, old chemicals and corrosive gases may be in the slit trenches.

RELEASE INFORMATION

A study of the area in 1966 by the U.S.G.S. indicated possible lateral movement of water--probably from the pit(s). The amount of water moving through the tuff was well below the effective porosity of the tuff. Radiochemical analysis of the soil and tuff from 13 test holes around the perimeter showed no indication of radioactive contamination. Investigations of the eastern end of the site in the late 1970's showed plant root penetration of the waste and animal intrusion. The area is being monitored for radioactive transport under the IWMP.

DRAFT

21-016 MATERIAL DISPOSAL AREA T

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): ABSORPTION BED/SHAFT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1945 - 1980's

UNIT INFORMATION

MDA-T covers an area of about 0.88 acres. This disposal area included absorption beds, sumps, and shafts. There were four absorption beds [21-016(a)] each 115' long, 20' wide and 4' deep. The beds received a total of 14,010,500 gallons of plutonium processing waste which included 10,500 gallons of effluent containing highly concentrated ammonium citrate. Associated with the absorption beds were four sumps: TA-21-121, -122, -131, and -132 [21-016(b), (c), (d), and (e)]. The sumps were built in 1946 of reinforced concrete and are 2'6" x 4' x 8'. In 1952, the volume of waste exceeded the capacity of the absorption beds and the waste was routed to TA-21-35 for treatment. The beds were used sporadically to treat a few hundred gallons of waste at a time up until 1967. A pit, TA-21-186 [21-016(f)], was built in 1959 of redwood and it was about 6' x 10' x 30' deep. The pit was located between two rows of absorption beds. In 1975 transuranic wastes were mixed with cement and pumped into a corrugated metal pipe into the pit. The pipe has since been transported to TA-54 with the intention of shipping it to the WIPP site near Carlsbad, NM. There were 62 shafts [21-016(g)], 20' to 60' deep and 4' to 8' diameter, augered between the absorption beds and cemented batch americium wastes were pumped down the shafts. The shafts were sprayed with heated roofing asphalt prior to emplacing the cemented mixture. The use of the shafts was discontinued in 1975.

WASTE INFORMATION

The waste in the absorption beds consists of liquids generated during plutonium processing. Americium-241 and plutonium-239 have been measured at sampling points in the absorption beds. As stated, the shafts contain batch americium wastes and the pit at one time contained transuranic wastes. Information on hazardous chemical co-contaminants is unavailable. Chemicals discharged to the absorption beds are reported to include fluorine, ammonium citrate, citric acid and nitrogen and chlorine compounds. According to LANL staff, lead, mercury and cadmium are suspected to have been waste constituents.

RELEASE INFORMATION

Subsurface migration of radionuclides and surface overflow have been documented. According to LANL staff, hazardous releases are suspected. Several studies have been done over the years to characterize the movement of radionuclides through the tuff. Five test holes were dug around the pits in 1953; two were through the pits and one was a 45 degree hole that angled below pit 1. A 30' deep caisson was dug to obtain horizontal cores in 1961 and several test holes were drilled in 1967. In a study completed in 1978, four sampling holes were drilled to a depth of 100' through two absorption beds. The holes were drilled in the vicinity of the place where the wastewater entered the beds. Two other holes were drilled further away from the entrance point for the waste. Data starting in 1952 provide the mineral composition of the waste; before that date, it is unknown. MDA-T is being monitored for radioactive transport under the IWMP.

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): ABSORPTION BED
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1945 - 1968

UNIT INFORMATION

MDA-U covers about 0.3 acres and contains two absorption beds, TA-21-162 and -163 [21-017(a) and (b)] that were used for the subsurface disposal of contaminated liquid wastes from DP East. The primary radionuclide in these wastes was polonium-210 which, with its 138-day half-life, has since decayed away. In 1953, several curies of actinium-227 were also discharged to these beds, principally from the effluents from a filter building (TA-21-153) that scrubbed actinium-227 out of the air in several process buildings at TA-21. Early problems with the pits included oil washing down from the precipitators which in 1946 was observed to be lying on top of the ground. This was noted to be contaminated to a high degree. The area around the filter building was decontaminated when the building was removed in 1978. MDA-U was improved in 1985 with the removal of the piping from the absorption beds and the associated sump, TA-21-164 [21-017(c)]. The sump was built in 1946 of reinforced concrete, about 2'6" x 4' x 8'. In addition, a sampling trench was dug in the length of the beds, and soil contaminated with actinium was removed to MDA-G. The CEARP reports the trench dimension as 20' wide, 100' long and 4' to 13' deep. However, a LANL employee remembers the trench to have been much smaller. A plastic lining was placed in the trench to indicate the excavation boundary, and then the trench was filled with uncontaminated tuff. The area was covered with 6" of topsoil. There is a graded drainage ditch outside of the fence to divert storm water around MDA-U.

WASTE INFORMATION

The liquid waste managed by MDA-U included radionuclides (polonium, actinium) and possibly some chemicals. Oils from the precipitators that were discharged to the beds may have contained beryllium.

RELEASE INFORMATION

There was no release observed during the VSI, however, some erosion of surface soil was observed. Several storm water outfalls (non-NPDES) were observed to discharge into the canyon. Memos suggest that releases have occurred from surface overflow in the early days.

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): ABSORPTION BEDS
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1945 - 1961

UNIT INFORMATION

MDA-V [21-018(a)], an area of approximately 1 acre, was used for the disposal of radionuclide-contaminated wastewater from laundry operations. The laundry, TA-21-20 [21-018(b)], was in use between 1945 and the 1950's; its purpose was cleaning contaminated clothing. Wastewater was discharged to three "absorption beds" or seepage pits that were used in series. There is documentation that these pits discharged to the canyon. An estimated 2 Ci of strontium-89, barium-140 and lanthanum-140, now decayed to undetectable levels, was discharged to these pits. Small quantities of strontium-90 and plutonium-239 were also discharged to the pits.

WASTE INFORMATION

The laundry wastewater contained radionuclides (barium-140, strontium-90, plutonium-239 and probably uranium) and may have contained chemicals including solvents.

RELEASE INFORMATION

The seepage pits did not always function properly, and on occasion there were discharges to the canyon. Surface stabilization efforts were completed in 1985. Sanitary sludges were used to aid re-vegetation of the unit in the summer of 1987. MDA-V is being monitored under the IWMP.

DRAFT

21-019 FILTER HOUSES / EXHAUST STACKS

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): BUILDING/STRUCTURE
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1958 - PRESENT

UNIT INFORMATION

There are several filter houses and exhaust stacks that are used to treat the radioactive off-gases in TA-21. The effluents from the active units are sampled monthly for radionuclides. In some labs, filters are in use before the gases discharge to the main filter houses.

STRUCTURE	SWMU NO.	STATUS	FAN NO.	SAMPLED FOR
TA-21-3	21-019(a)	active	FE-6	U235
TA-21-4	21-019(b)	active	FE-1	Pu, mixed fission products
TA-21-4	21-019(b)	active	FE-3	U235
TA-21-146	21-019(c)	inactive(?)		
TA-21-150	21-019(d)	active	FE-1	Pu
TA-21-155	21-019(e)	active	FE-5	tritium gas, tritium oxide
TA-21-209	21-019(f)	active	FE-1,-10,-12	tritium gas
TA-21-257	21-019(g)	active	FE-4	Pu
TA-21-313	21-019(h)	active	FE-2	Pu
TA-21-314	21-019(i)	active	FE-1,-7	Pu
TA-21-315	21-019(j)	active	FE-1	Pu
TA-21-322	21-019(k)	inactive (?)		
TA-21-323	21-019(l)	inactive (?)		
TA-21-324	21-019(m)	active	FE-1	Pu

TA-21-146 is a filter house built between 1958 and 1960 of pumice block with a steel deck roof; it is about 40'8" x 18' x 13'11.5". TA-21-324 is also a filter house that is about 18' x 58' x 10'.

DRAFT

WASTE INFORMATION

The off-gases contain radionuclides and possibly hazardous chemicals.

RELEASE INFORMATION

Detailed data on any releases other than radionuclides is lacking.

21-020 DECOMMISSIONED FILTER HOUSES

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): BUILDING/STRUCTURE
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1945 - 1973

UNIT INFORMATION

Filter house TA-21-12 [21-020(a)] began operating in May 1945. It treated air from DP West rooms and processes with electrostatic precipitators and filters. Decontamination and decommissioning occurred, and in 1973 the ductwork was removed and the filter house was demolished. The interior was cleaned and painted and the stacks, filters, frames and other items were removed for burial. The building was carefully demolished inside to outside and contaminated items were removed for disposal. The drain pipe to the tile field and contaminated soil were also reported to have been removed. The tile field itself was removed at an earlier date. The decommissioning residues were taken to MDA-A and to TA-54 for disposal and, if wastes contained >10 nCi/g of plutonium, to retrievable storage. Filter Building TA-21-153 [21-020(b)] was constructed in 1945 to clean air from some of the process operations at DP East. The building contained filters and electrostatic precipitators. In 1970 the building was shut down and in the 1970's the radioactive and contaminated accessible parts of the building were removed. The building, its contents, and contaminated soil were disposed of or were placed in retrievable storage at TA-54.

WASTE INFORMATION

The off-gases contained radionuclides. Further information characterizing the chemicals or other constituents that may have been present is not available, however, various acid vapors including hydrofluoric acid were probably discharged.

RELEASE INFORMATION

Radioactive waste is known to have been released through the stacks due to above background samples in the area around DP. No information on releases of hazardous constituents is available.

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): STACK EMISSION
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: 1940's - PRESENT

UNIT INFORMATION

In 1970, above background levels of plutonium and strontium-90 were measured in the vicinity of TA-21. The study concluded that the plutonium was probably deposited from DP Site air stacks. The estimated area of soil contaminated by TA-21 is approximately 300,000 square meters, with plutonium-239 concentrations ranging from 0.005 to 0.6 pCi/g. The sampling locations are located throughout TA-21 extending to the airport. The soil samples were not analyzed for constituents other than radionuclides.

WASTE INFORMATION

The emissions consisted of particulate matter containing plutonium-239 and strontium. LANL staff suspect chemical waste constituents.

RELEASE INFORMATION

Documentation on releases of hazardous non-radionuclide constituents from this unit is lacking; however, airborne releases of radionuclides are indicated by the concentrations of plutonium and strontium in the soil surrounding the unit.

DRAFT

21-022 ACID WASTE LINES AND SUMP

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): WASTE LINE/SUMP
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

There were acid waste lines running from Building 2 to Building 3 and also from Building 2 to an acid pit. These lines are reported to be removed. A four-inch waste line connected Buildings 2 3, 4, and 5 to the old treatment plant, TA-21-35. A six-inch waste line was abandoned when the four-inch line was installed in 1956. A concrete trench may still connect building TA-21-2 to TA-21-3. Information on other possible abandoned waste lines is lacking. The following are acid manholes and manhole sumps in TA-21:

STRUCTURE	SWMU NO.	DATE BUILT	DIMENSIONS
TA-21-74	21-022(a)	1946	5' dia, brick, wood cover
TA-21-81	21-022(b)	1945	5'3" dia, 10' deep, brick, steel cover
TA-21-84	21-022(c)	1945	5'3" dia, 10' deep, brick, steel cover
TA-21-87	21-022(d)	1945	5'3" dia, 10' deep, brick, steel cover
TA-21-89	21-022(e)	1945	5'3" dia, 10' deep, brick, steel cover
TA-21-173	21-022(f)	1945	5'6" dai, 6' deep, brick
TA-21-189	21-022(g)	1962	unknown
TA-21-202	21-022(h)	1962	unknown

The DP West acid manholes, TA-21-81, -84, -87, and -89, were removed in the 1978-81 cleanup. Contaminated soil around these manholes was removed to the point that further excavation would have jeopardized the integrity of the adjacent buildings. The status of manholes and sump TA-21-74, -173, -189, and -202 is unknown.

WASTE INFORMATION

The waste is described as radioactive mixed. Data characterizing the waste discharged to the manholes is not available.

RELEASE INFORMATION

There is no documentation indicating whether the waste lines leaked; however LANL staff suspect the early lines may have leaked. The DP West manholes and associated radionuclide contaminated soil have been excavated to the point that the integrity of the adjacent buildings could be preserved. It is unknown whether hazardous releases have occurred from the other manholes or sump.

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The following septic tanks in TA-21 have been decommissioned:

TANK LOCATION	SWMU NO.	DATE BUILT	DATE OF REMOVAL	CONSTRUCTION/CAPACITY
TA-21-225	21-023(a)	1966	1966	5' x 9' x 6' deep, reinforced concrete
TA-21-142	21-023(b)	1945	1965	500 gallons, steel
TA-21-62	21-023(c)	1948	1965	5' x 10' x 7', reinforced concrete
TA-21-187	21-023(d)	1960	1966	5' x 3' x 5'6" deep, reinforced concrete

TA-21-62 was buried in MDA-G in 1966; TA-21-142 served shower room in TA-21-3.

WASTE INFORMATION

The waste was sanitary, but some of the tanks probably contained radioactive-mixed constituents. Tank TA-21-187 received industrial waste.

RELEASE INFORMATION

It is unknown whether a hazardous waste release has occurred. At one time the canyon south of TA-21 was fenced to prevent entry due to high radioactivity levels. The radionuclides were believed to have come from the septic systems and/or other units with canyon outfalls.

DRAFT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

The following are abandoned septic tanks in TA-21. The systems had outfalls.

STRUCTURE	SWMU NO.	BUILT	CONSTRUCTION
TA-21-53	21-024(a)	1945	8' x 16' x 7'9" deep
TA-21-55	21-024(b)	1945	4' x 8' x 6'6" deep
TA-21-56	21-024(c)	1945	4' x 8' x 6' deep
TA-21-106	21-024(d)	1945	9'6" x 18' x 5' deep
TA-21-123	21-024(e)	1945	6'4" dia, 11'4" long, steel, 1000 gallons
TA-21-124	21-024(f)	1952	1000 gallons, material unknown
TA-21-125	21-024(g)	1945	9'6" x 18' x 5'
TA-21-163	21-024(h)	1945	6' x 14' x 5' deep
TA-21-181	21-024(i)	1945	5' x 10' x 7'9" deep
TA-21-194	21-024(j)	1961	5' x 3' x 6' deep
TA-21-219	21-024(k)	1966	

All of the septic tanks were abandoned in place by backfilling with earth, except for tank TA-21-56 for which information is lacking and tank TA-21-194 which had only the inlet and outlet filled. The tanks were abandoned in 1965-1966. All of the septic tanks were built of reinforced concrete, except where noted differently above.

WASTE INFORMATION

The waste was sanitary, but is suspected to have contained radioactive-mixed constituents in at least some of the tanks.

RELEASE INFORMATION

It is unknown in which tanks a hazardous or radioactive release has occurred. At one time the canyon south of TA-21 was fenced to prevent entry due to high radioactivity level. The radionuclides are believed to have come from the septic systems and/or other units with canyon outfalls.

DRAFT

21-025 OFF - GAS SYSTEM

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): OTHER: OFF-GAS SYSTEM
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

In both the TA-21-155 [21-025(a)] (TSTA facility) and the adjacent tritium facility [21-025(b)], a tritium treatment train is in operation. On each train, gases which may contain tritium are stored in a tank until a given pressure is exceeded. The gases are then released and passed through a catalyst bed operated at high temperatures in order to oxidize the tritium to tritiated water. The water is then collected in a series of molecular sieves. When a sieve is near breakthrough, it is removed, and hot nitrogen gas is used to strip the water from the sieve unit. The now concentrated tritiated water vapor is collected on a second series of molecular sieves. Before breakthrough, the sieves are placed in asphalt-lined 55 gallon drums for collection by HSE-7. The TSTA tritium storage tank is approximately seven cubic meters.

WASTE INFORMATION

The waste is consists of tritium.

RELEASE INFORMATION

There is no known release of hazardous waste from these systems.

DRAFT

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1966 - PRESENT

UNIT INFORMATION

The TA-21 sewage treatment plant, TA-21-227 [21-026(a)], treats sanitary wastes and noncontact cooling water from TA-21 facilities. Effluent is highly aerated so that complete oxidation of sludge is achieved. No sludge has been discharged to drying beds TA-21-230 [21-026(b)]. TA-21-348 [21-026(c)] is noted as a sewage pit 6' x 6' x 9' deep located next to the sewage plant.

WASTE INFORMATION

The waste consists of sanitary waste and non-contact cooling water.

RELEASE INFORMATION

There have been no known releases of hazardous constituents from these units.

DRAFT

21-027 STORM DRAINS

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: UNKNOWN
PERIOD OF USE: 1950's - ?

UNIT INFORMATION

Floor drains from TA-21-3 and -6 are believed to have gone to storm drains. A 1963 report notes that a culvert on the south side of TA-21 drained storm runoff. Small quantities of radionuclides may have run into Los Alamos Canyon through the culvert. According to LANL staff, there are several culverts on the south side of the plutonium facility that drain storm runoff to the canyon. Other drainages may also have received operational releases including blowdown of chilled water.

WASTE INFORMATION

The waste is described as radioactive and is suspected to contain chemicals.

RELEASE INFORMATION

There has been no monitoring in the receiving area.

DRAFT

21-028 ACTIVE CONTAINER STORAGE AREAS

SUMMARY

LOCATION: TA-21
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

The following are active storage areas based on a 10/12/88 version of the LANL container storage area database:

LOCATION	SWMU NO.	FACILITY TYPE	MATERIALS STORED
TA-21-121	21-028(a)	satellite	alcohol, acetone, freon
TA-21-150	21-028(b)	satellite	solvents, miscellaneous chemicals
TA-21-3	21-028(c)	satellite	solvents, miscellaneous chemicals
TA-21-209	21-028(d)	<90 day storage	radioactive-contaminated waste

The less than 90 day storage area at TA-21-209 loading dock was noted during a November 1988 field survey. These drums were awaiting transport to TA-54.

WASTE INFORMATION

TA-21-121 stores alcohol, acetone and freon; TA-21-150 and TA-21-3 store solvents and miscellaneous chemicals. TA-21-209 stores wastes containing radionuclides.

RELEASE INFORMATION

TA-21-121 and the TA-21-209 storage areas are located outside on loading docks. The TA-21-150 storage area is located in the basement of the building and the storage area at TA-21-3 is located in an outside cabinet. No releases from these units are known.

DRAFT

TA-21 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
21-001	21-1
21-002	Not shown, location unknown
21-003	21-1
21-004(a)	21-1
21-004(b)	21-6
21-004(c)	21-6
21-005	21-4
21-006(a)	Not shown, location unknown
21-006(b)	Not shown, location unknown
21-006(c)	21-1
21-006(d)	21-1
21-006(e)	Not shown, location unknown
21-007	21-4
21-008	Not shown, location unknown
21-009	21-4, 21-6
21-010(a)	21-4
21-010(b)	21-4
21-010(c)	21-5
21-010(d)	21-5
21-010(e)	21-5
21-010(f)	12-5
21-010(g)	21-5
21-010(h)	21-5
21-011(a)	21-1
21-011(b)	21-2
21-011(c)	21-1
21-011(d)	21-1
21-011(e)	21-1
21-011(f)	21-1
21-011(g)	21-1
21-011(h)	21-1

DRAFT

TA-21 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX (CONTINUED)

SWMU	FIGURE NUMBER
21-012	21-1
21-013	21-2
21-014	21-1, 21-8
21-015	21-1, 21-5, 21-9
21-016(a)	21-6, 21-10
21-016(b)	21-4
21-016(c)	21-4
21-016(d)	21-4
21-016(e)	21-4
21-016(f)	21-1, 21-10
21-016(g)	21-10
21-017	21-6, 21-10, 21-011
21-108(a)	21-5, 21-13
21-018(b)	21-4
21-019(a)	21-1
21-019(b)	21-1
21-019(c)	21-5
21-019(d)	21-1
21-019(e)	21-2
21-019(f)	21-2
21-019(g)	21-1
21-019(h)	21-1
21-019(i)	21-1
21-019(j)	21-1
21-019(k)	21-2
21-019(l)	21-2
21-019(m)	21-1
21-020	21-4
21-021	Not shown, location unknown

DRAFT

TA-21 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
21-022(a)	21-4
21-022(b)	21-4
21-022(c)	21-4
21-022(d)	21-4
21-022(e)	21-4
21-022(f)	21-4
21-022(g)	21-1, 21-4, 21-7
21-022(h)	21-1, 21-4, 21-7
21-023(a)	21-5
21-023(b)	21-3
21-023(c)	21-5, 21-6
21-023(d)	21-3
21-024(a)	21-1
21-024(b)	21-1
21-024(c)	21-1
21-024(d)	21-1
21-024(e)	21-1
21-024(f)	21-1
21-024(g)	21-1
21-024(h)	21-2
21-024(i)	21-2
21-024(j)	21-2
21-024(k)	21-2
21-025	21-5
21-026(a)	21-2
21-026(b)	21-2
21-026(c)	Not shown, location unknown
21-027	21-3
21-028(a)	21-1
21-028(b)	21-1

DRAFT

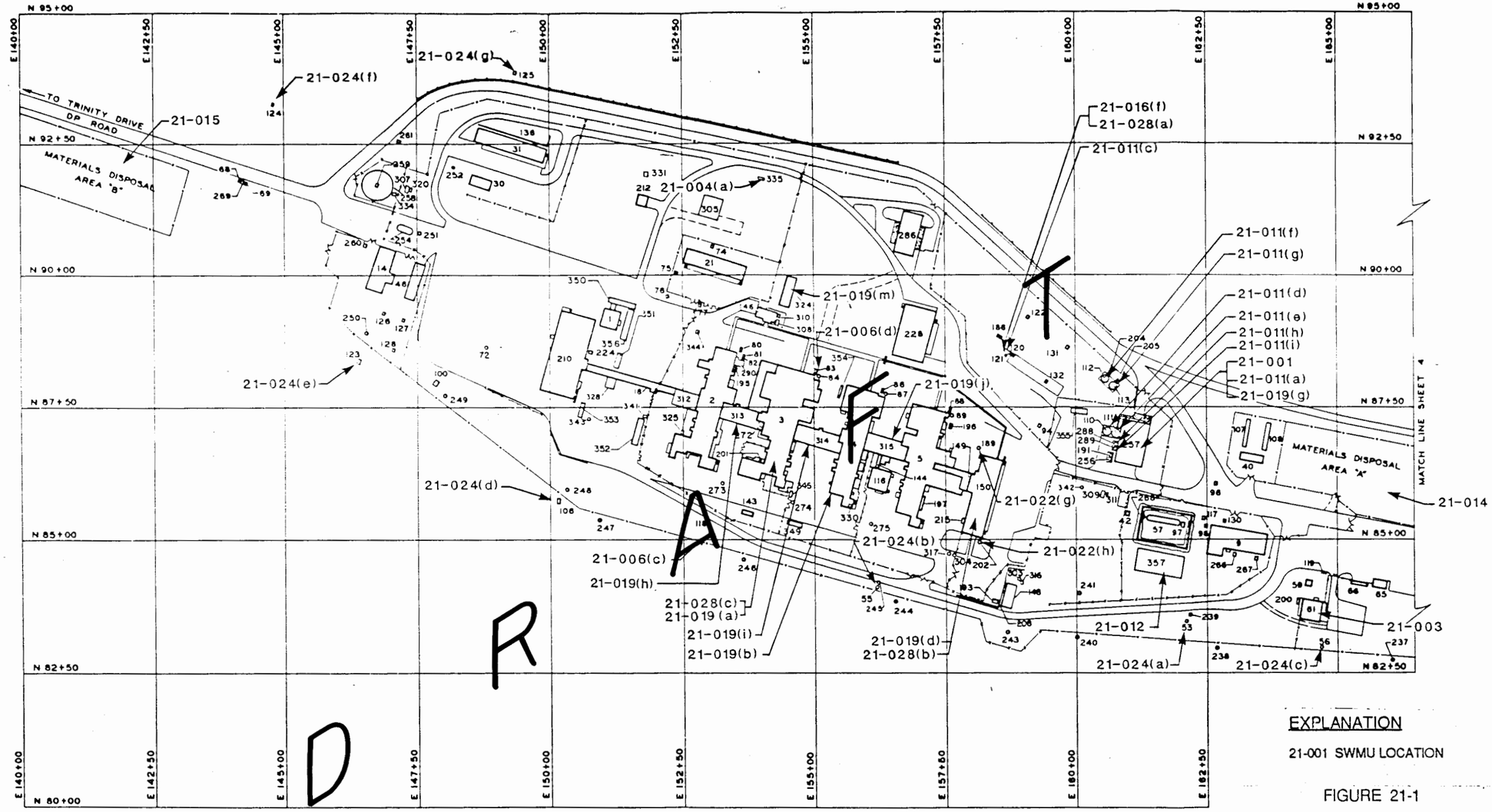
TA-21 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
21-028(c)	21-1
21-028(d)	21-2

NOTE: Some structure locations contain more than one SWMU.

DRAFT

301215 02 01 B113



EXPLANATION

21-001 SWMU LOCATION

FIGURE 21-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-21

1" = 100'

GRAPHIC SCALE

UNCLASSIFIED

NOTES

UNIT 21-002: DRUMS AND CYLINDERS WERE AT DIFFERENT LOCATIONS THROUGHOUT TA-21. THE PLACEMENT OF DRUMS CONSTANTLY CHANGES.

UNIT 21-021: SOIL CONTAMINATION FROM STACK EMISSIONS IS THROUGHOUT TA-21 TO THE AIRPORT.

REV.	DATE	REVISION	BY	CKD	APP
10	8-5-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-1-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

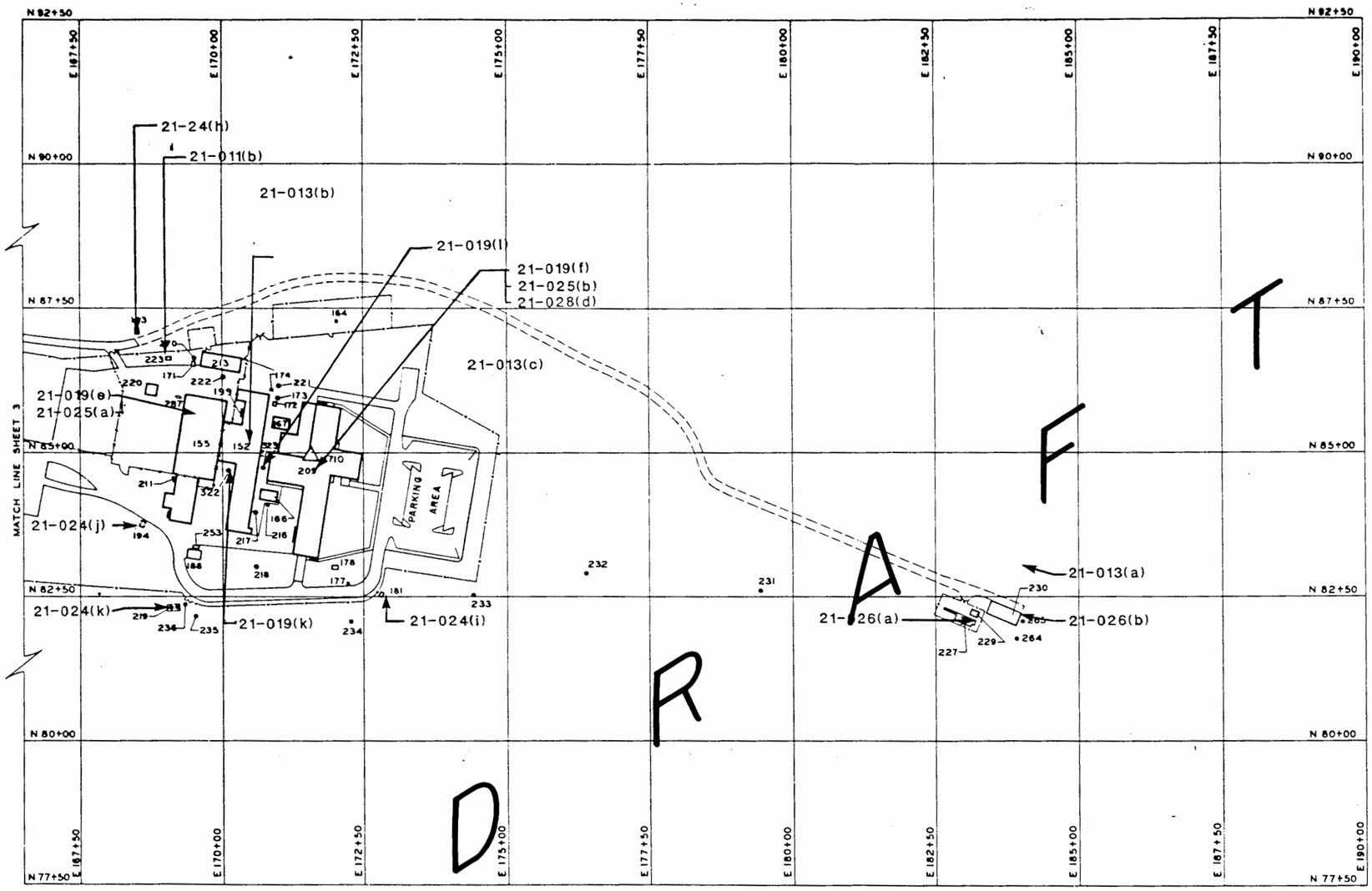
STRUCTURE LOCATION PLAN
TA-21 DP-SITE

SEC CLASSIFICATION: CLASS. U
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED

DRAWN
CHECKED
DATE 8-5-83
SHEET NO. 3 of 4
DRAWING NO. ENG-R5113

301215 02 01 B72



LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

FIGURE 21-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-21

1" = 100'

100' 50' 0 100' 200' 300' 400'

GRAPHIC SCALE

TRUE NORTH
GRID NORTH
3°26'
11°04'
GRID DECLINATION 2°42'

EXPLANATION

21-001 SWMU LOCATION

NOTES

UNIT 21-013(a) UNIT LOCATION IS APPROXIMATE

UNIT21-017 MDA-U, SEE FIGURE 21-11 FOR MORE DETAILED DRAWING.

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
5	8-5-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-1-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-21 DP-SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 8-5-83; SHEET NO 4 of 4; DRAWING NO ENG-R5113

301215 02 01 B174

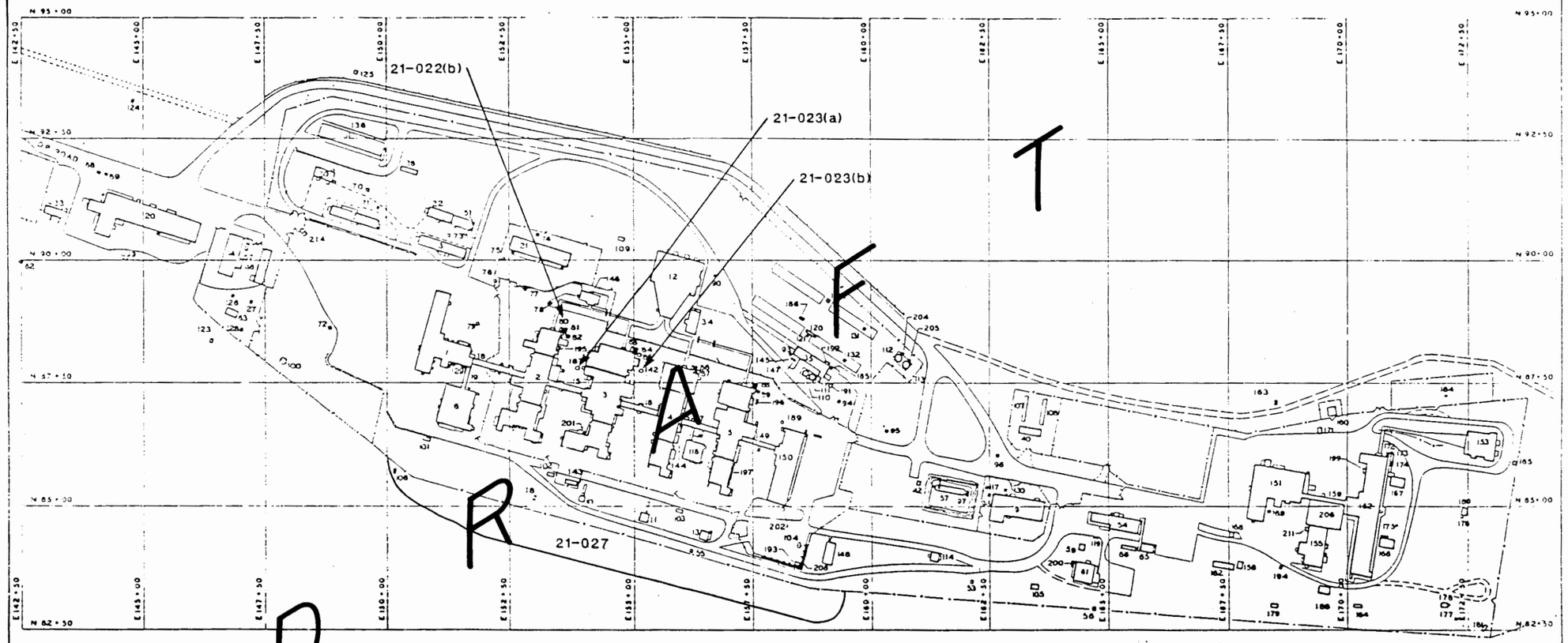


FIGURE 21-3

SOLID WASTE MANAGEMENT UNITS (SWMUs)IN TA-21

SCALE

EXPLANATION

21-001 SWMU LOCATION

NOTES

21-027 APPROXIMATE STORM DRAINAGE AREA

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CHKD
10	5-13-84	REVISED TO STATUS OF 3-84	DLG	
9	8-15-81	REDRAWN TO STATUS OF 8-1-81 (WRS ENG-R 460)	DL	

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

STRUCTURE LOCATION PLAN
TA-21 DP-SITE

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., ETC.

DRAWN: IRBY
SCALE: AS NOTED
DATE: 8-15-81
SHEET 2 OF 2
ENG-R 2450

OFFICIAL USE ONLY

301215 02 01 B73

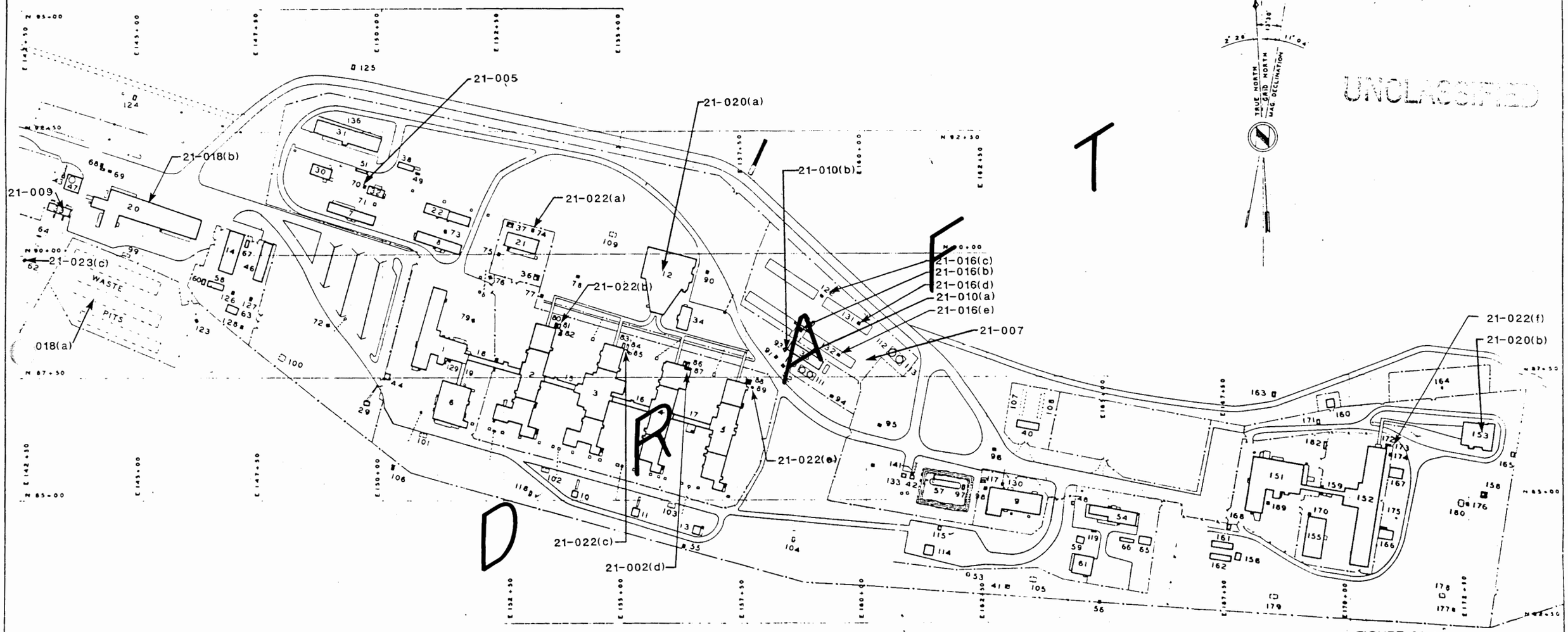


FIGURE 21-4

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-21

EXPLANATION

21-001 SWMU LOCATION

NOTES

UNIT 21-018(a): MDA-V, SEE FIGURE 21-12 FOR MORE DETAILED DRAWING.

NO.	DATE	REVISIONS	BY	CHKD
7	9/23/85	ENG-R 138 REDRAWN AS ENG-R 139 AND ENG-R 140	JAS	

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

STRUCTURE LOCATION PLAN
TA-21 DP SITE

DRAWN: N BYERS — DATE: 9-23-85 — DRAWING NO. ENG-R 140

AUTHORIZED FOR

OFFICIAL USE ONLY

301215 02 01 B167

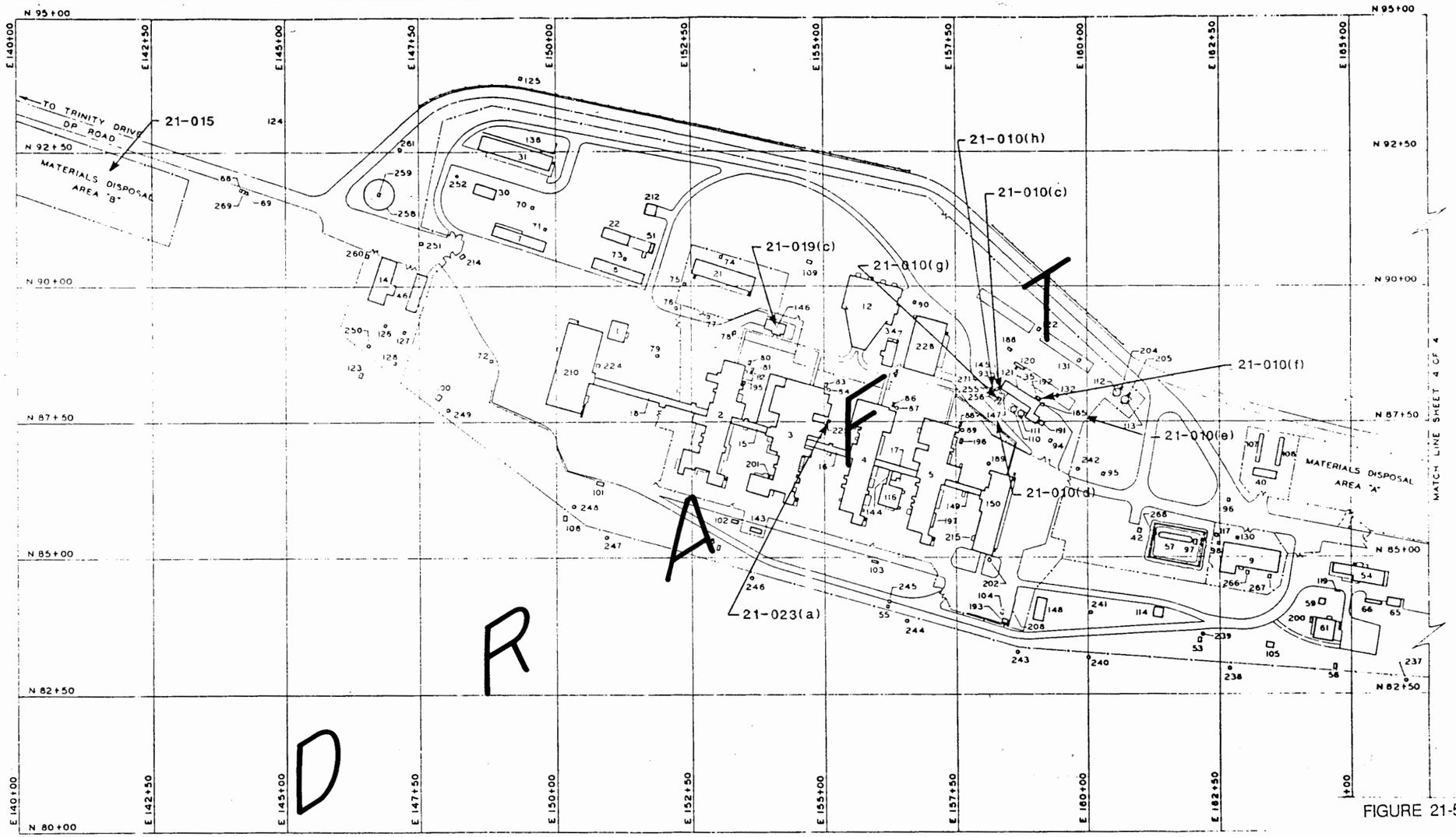


FIGURE 21-5

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-21

SCALE

NOTE:
THIS SET OF FOUR DRAWINGS CONSISTS OF:
ENG-R2449, INDEX SHEET, 1 OF 4
ENG-R2450, INDEX SHEET, 2 OF 4
ENG-R2451, SITE MAP, 3 OF 4
ENG-R2452, SITE MAP, 4 OF 4
THIS SET VOIDS AND SUPERSEDES DRAWINGS.
ENG-R2449, REV NO 10, DATED 5-13-84
ENG-R2450, REV NO 10, DATED 5-13-84

TRUE NORTH
GRID NORTH 13°30'
MAG DECLINATION 2°29'

NO.	DATE	REVISIONS	BY	CHKD
1	12 2 68	REVISED TO STATUS OF 12 2 68		
0	2-25-66	REDRAWN TO STATUS OF 2 66 (SEE NOTE)		

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

STRUCTURE LOCATION PLAN
TA-21 DP-SITE

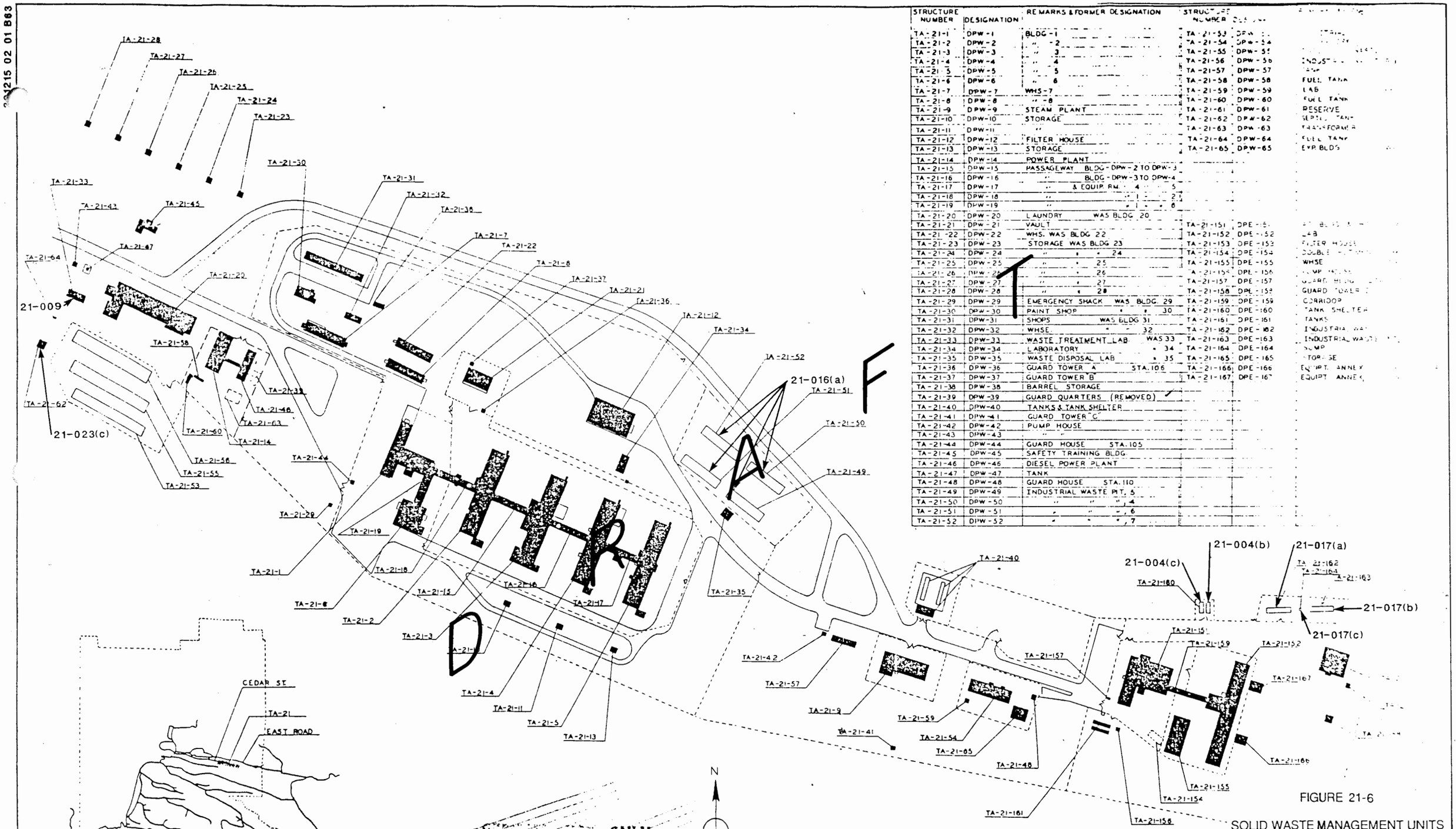
AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

CHECKED: PROJ. ENG.
RECOMMENDED: GROUP LEADER
APPROVED: ENG. DEPARTMENT
DESIGNER
DRAWN: T. ROYBAL
SCALE: AS NOTED
DATE: 2-25-66
SHEET 3 OF 4
DRAWING NO. ENG-R 2451

UNCLASSIFIED

EXPLANATION

21-001 SWMU LOCATION



STRUCTURE NUMBER	DESIGNATION	REMARKS & FORMER DESIGNATION	STRUCTURE NUMBER	DESIGNATION	REMARKS & FORMER DESIGNATION
TA-21-1	DPW-1	BLDG-1	TA-21-53	DPW-53	[illegible]
TA-21-2	DPW-2	" -2	TA-21-54	DPW-54	[illegible]
TA-21-3	DPW-3	" 3	TA-21-55	DPW-55	[illegible]
TA-21-4	DPW-4	" 4	TA-21-56	DPW-56	INDUSTRIAL [illegible]
TA-21-5	DPW-5	" 5	TA-21-57	DPW-57	TANK
TA-21-6	DPW-6	" 6	TA-21-58	DPW-58	FUEL TANK
TA-21-7	DPW-7	WHS-7	TA-21-59	DPW-59	LAB
TA-21-8	DPW-8	" -8	TA-21-60	DPW-60	FUEL TANK
TA-21-9	DPW-9	STEAM PLANT	TA-21-61	DPW-61	RESERVE
TA-21-10	DPW-10	STORAGE	TA-21-62	DPW-62	SEPTIC TANK
TA-21-11	DPW-11	"	TA-21-63	DPW-63	TRANSFORMER
TA-21-12	DPW-12	FILTER HOUSE	TA-21-64	DPW-64	FUEL TANK
TA-21-13	DPW-13	STORAGE	TA-21-65	DPW-65	EXP. BLDG
TA-21-14	DPW-14	POWER PLANT			
TA-21-15	DPW-15	PASSAGEWAY BLDG-DPW-2 TO DPW-3			
TA-21-16	DPW-16	" BLDG-DPW-3 TO DPW-4			
TA-21-17	DPW-17	" & EQUIP. RM. " 4 " 5			
TA-21-18	DPW-18	" " " 1 " 2			
TA-21-19	DPW-19	" " " 1 " 6			
TA-21-20	DPW-20	LAUNDRY WAS BLDG 20			
TA-21-21	DPW-21	VAULT	TA-21-151	DPE-151	[illegible]
TA-21-22	DPW-22	WHS. WAS BLDG 22	TA-21-152	DPE-152	LAB
TA-21-23	DPW-23	STORAGE WAS BLDG 23	TA-21-153	DPE-153	FILTER HOUSE
TA-21-24	DPW-24	" " " 24	TA-21-154	DPE-154	DOUBLE [illegible]
TA-21-25	DPW-25	" " 25	TA-21-155	DPE-155	WHSE
TA-21-26	DPW-26	" " 26	TA-21-156	DPE-156	PUMP HOUSE
TA-21-27	DPW-27	" " 27	TA-21-157	DPE-157	GUARD HOUSE
TA-21-28	DPW-28	" " 28	TA-21-158	DPE-158	GUARD TOWER
TA-21-29	DPW-29	EMERGENCY SHACK WAS BLDG. 29	TA-21-159	DPE-159	CORRIDOR
TA-21-30	DPW-30	PAINT SHOP " " 30	TA-21-160	DPE-160	TANK SHELTER
TA-21-31	DPW-31	SHOPS WAS BLDG 31	TA-21-161	DPE-161	TANKS
TA-21-32	DPW-32	WHSE. " " 32	TA-21-162	DPE-162	INDUSTRIAL WA[illegible]
TA-21-33	DPW-33	WASTE TREATMENT LAB WAS 33	TA-21-163	DPE-163	INDUSTRIAL WASTE [illegible]
TA-21-34	DPW-34	LABORATORY " 34	TA-21-164	DPE-164	SUMP
TA-21-35	DPW-35	WASTE DISPOSAL LAB " 35	TA-21-165	DPE-165	STORAGE
TA-21-36	DPW-36	GUARD TOWER A STA. 106	TA-21-166	DPE-166	EQUIPT. ANNEX
TA-21-37	DPW-37	GUARD TOWER B	TA-21-167	DPE-167	EQUIPT. ANNEX
TA-21-38	DPW-38	BARREL STORAGE			
TA-21-39	DPW-39	GUARD QUARTERS (REMOVED)			
TA-21-40	DPW-40	TANKS & TANK SHELTER			
TA-21-41	DPW-41	GUARD TOWER C			
TA-21-42	DPW-42	PUMP HOUSE			
TA-21-43	DPW-43	" "			
TA-21-44	DPW-44	GUARD HOUSE STA. 105			
TA-21-45	DPW-45	SAFETY TRAINING BLDG.			
TA-21-46	DPW-46	DIESEL POWER PLANT			
TA-21-47	DPW-47	TANK			
TA-21-48	DPW-48	GUARD HOUSE STA. 110			
TA-21-49	DPW-49	INDUSTRIAL WASTE PIT. 5			
TA-21-50	DPW-50	" " " 4			
TA-21-51	DPW-51	" " " 6			
TA-21-52	DPW-52	" " " 7			

FIGURE 21-6

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-21

EXPLANATION

21-001 SWMU LOCATION

(Classification changed to [illegible]
by authority of the [illegible]
Per R.C.SMITH 10-4-54
(Person authorizing change in classification) (Date)
By [illegible] OCT 30 1955
(Signature of person making the change, and date)

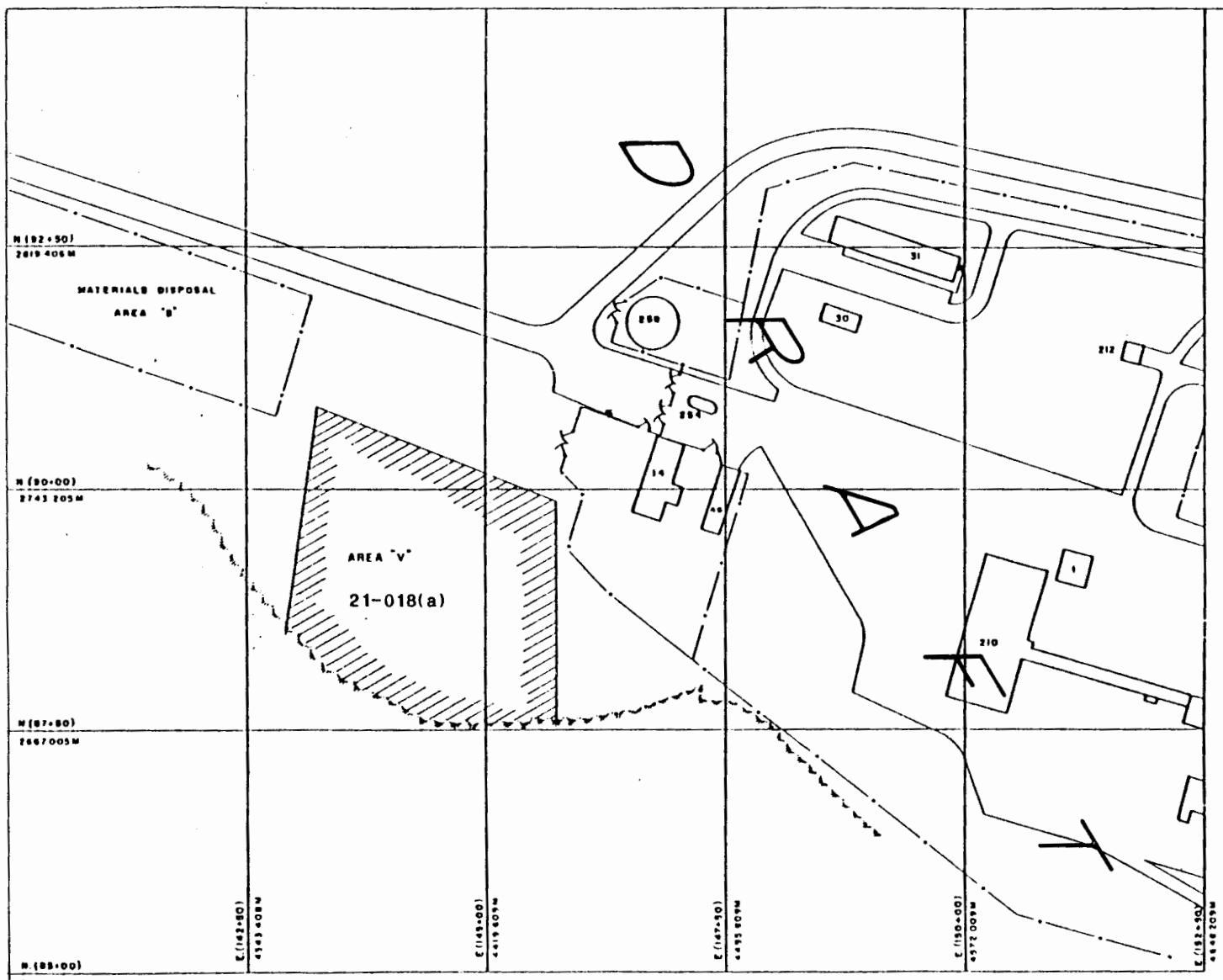
UNCLASSIFIED

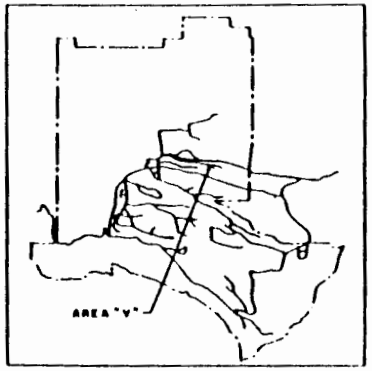
1-0106129

AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY
HEALTH	DEPARTMENT OF ENGINEERING—CONSTRUCTION & MAINTENANCE GROUP
SAFETY	STRUCTURE LOCATION PLAN
FIRE PR.	TA-21 DP SITE
COMM.	
SEC.	

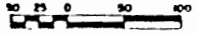
REV.	SCALE	DRAWN BY:	DATE 3-31-50	
0	1"=100'	CHKD. BY:	DATE 3-31-50	FIG. 9
		APPD. BY:	DATE:	

301215 02 01 A16





LOCATION PLAN



SCALE

FIGURE 21-11

MATERIAL DISPOSAL AREA
V, TA-21

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA – LOS ALAMOS NEW MEXICO

MATERIALS DISPOSAL AREAS
AREA "V"
DP-SITE TA-21

D.R. MINGO

EXPLANATION

21-001 SWMU LOCATION

NOTES

21-018(a) SWMU ENCOMPASSES SHADED AREA

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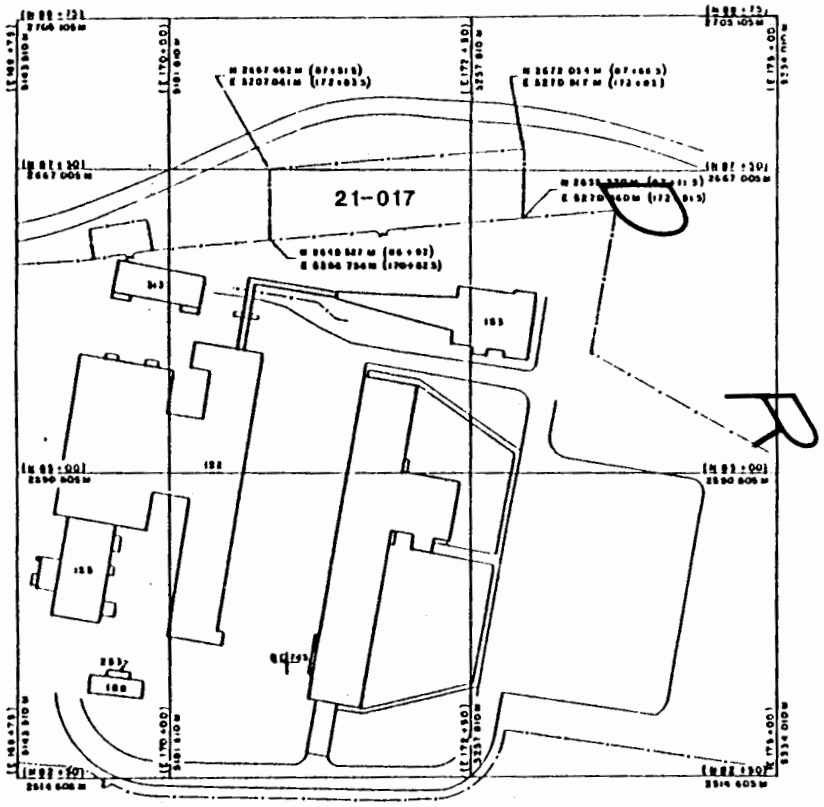

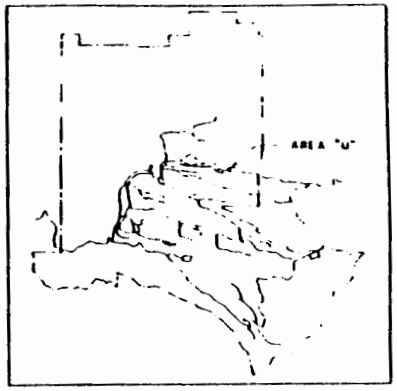

LOCATION PLAN

FIGURE 21-10

MATERIAL DISPOSAL AREA U, TA-21

EXPLANATION

21-001 SWMU LOCATION

NOTES

21-017 SWMU ENCOMPASSES FENCED AREA

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREAS

AREA "U"

DP - SITE TA - 21

DRAFT

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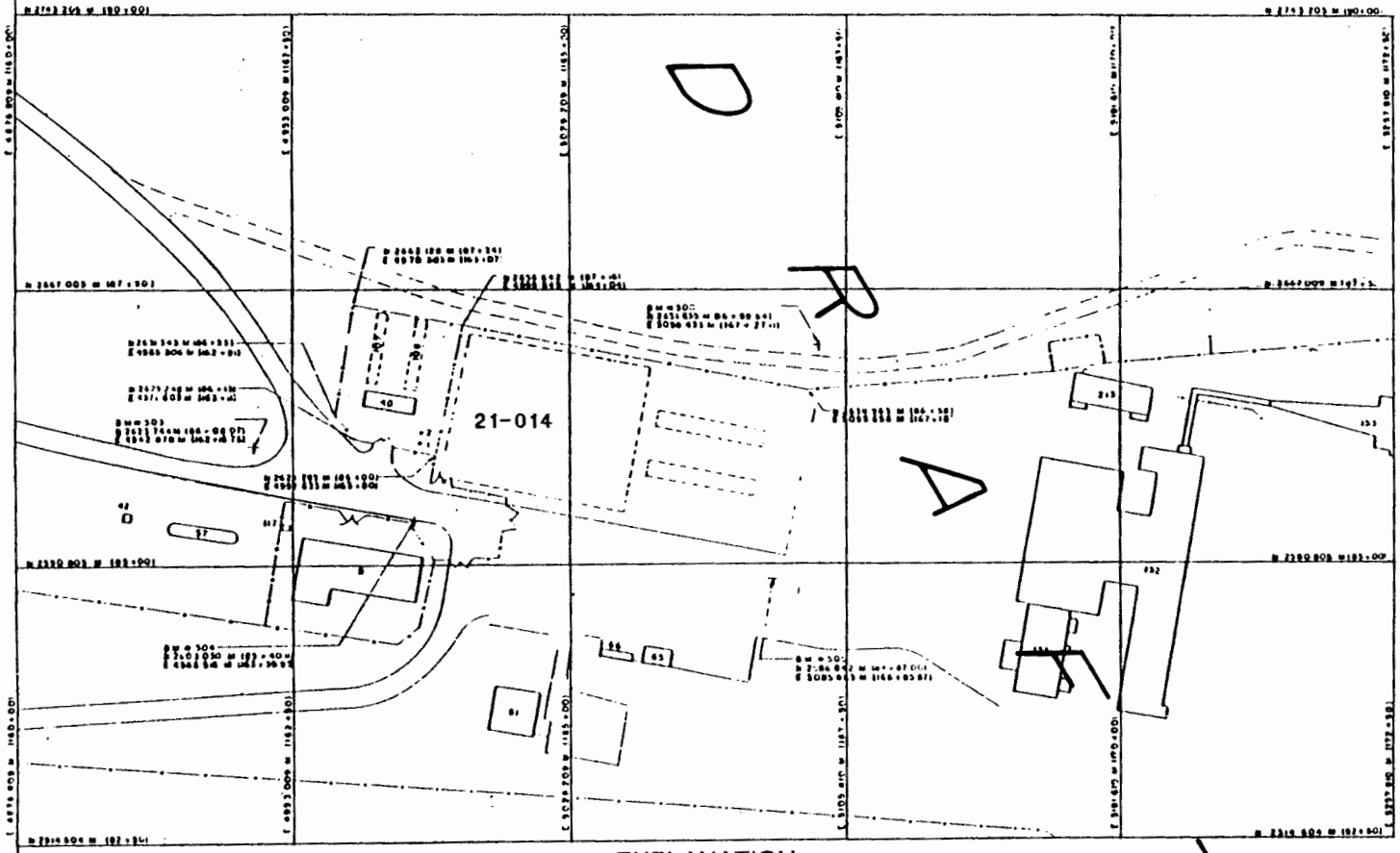

LOCATION PLAN

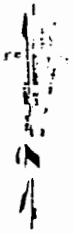

FIGURE 21-7

MATERIAL DISPOSAL AREA
A, TA-21

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREAS
AREA "A"

EXPLANATION

21-001 SWMU LOCATION

NOTES

21-014 SWMU ENCOMPASSES FENCED AREA

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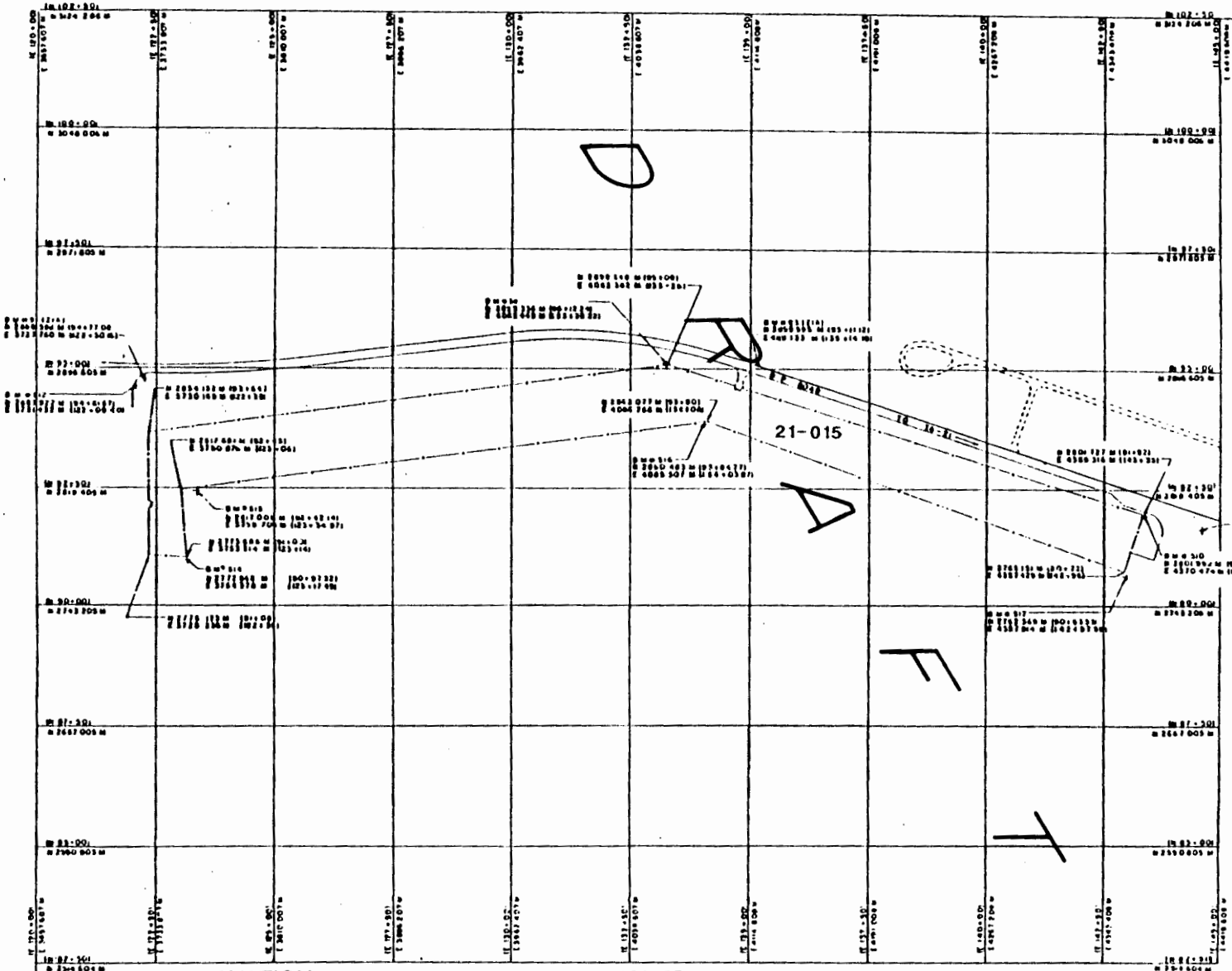
301215 02 01 A13



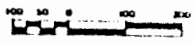


FIGURE 21-8

MATERIAL DISPOSAL AREA
B, TA-21

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREAS
AREA "B"

ENG R 4456

EXPLANATION

21-001 SWMU LOCATION

NOTES

21-015 SWMU ENCOMPASSES FENCED AREA

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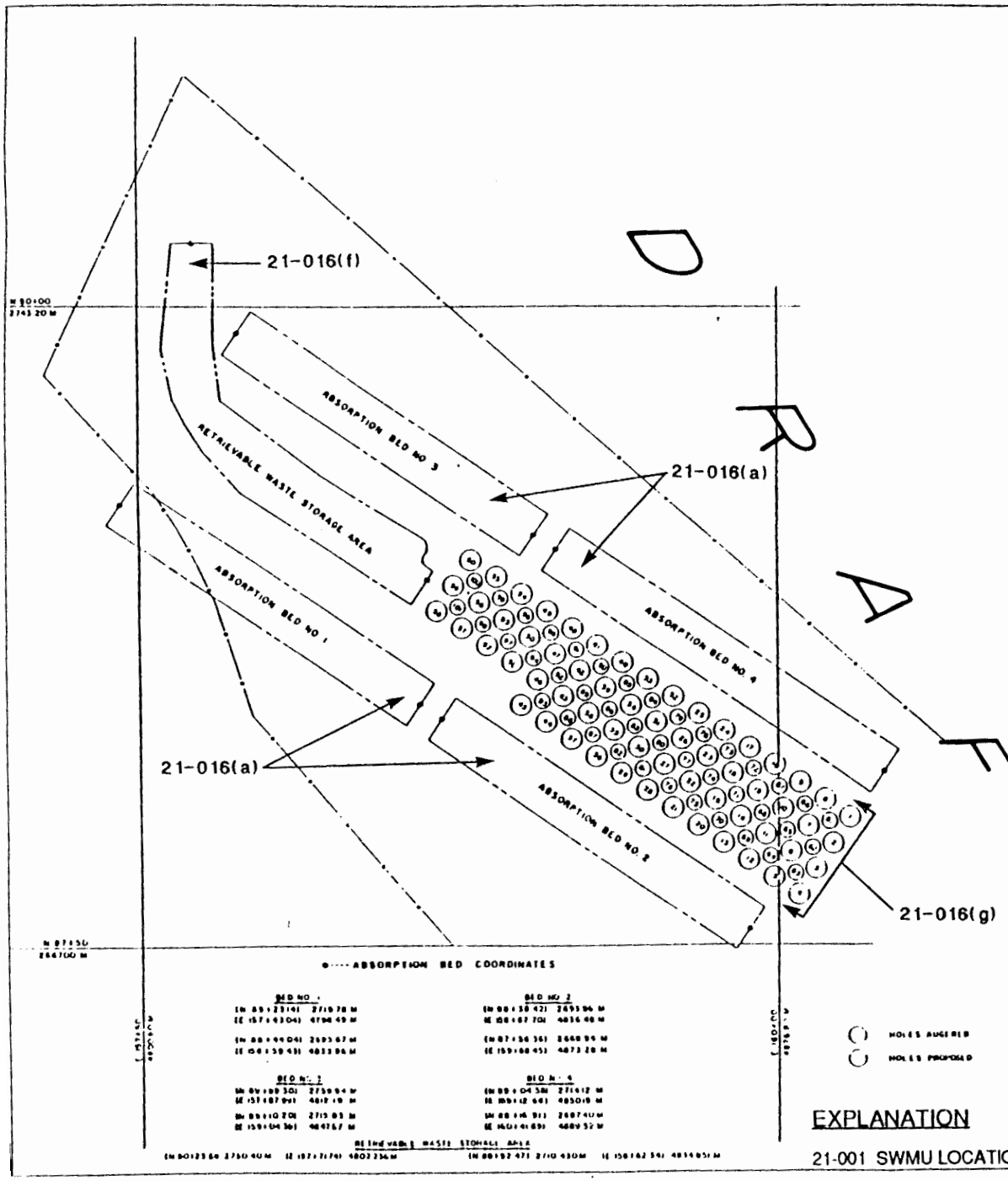
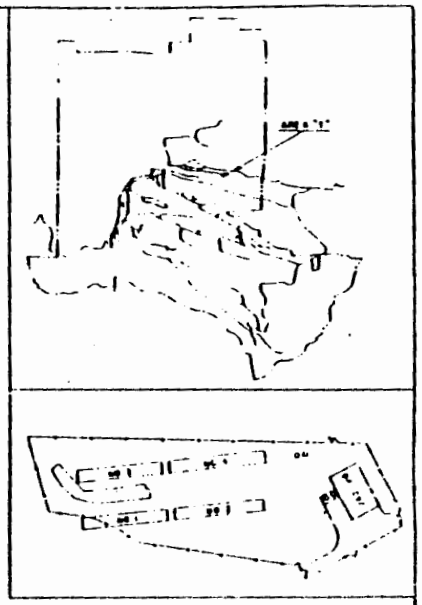


SHAFT NUMBER	SHAFT DIAMETER	DATE COMPLETED	APPROXIMATE DEPTH
[illegible]	[illegible]	[illegible]	[illegible]



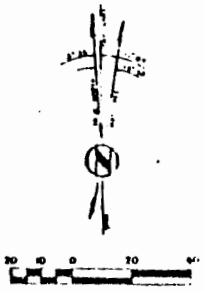


FIGURE 21-9

MATERIAL DISPOSAL AREA
T, TA-21

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREAS
AREA "T"

DRAFT

UNCLASSIFIED

301215 02 01 B28

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-1	DP-1	OFFICE, VAULT BUILDING		N87+50 E150+00
TA-21-2	DP-2	LABORATORY BUILDING		N87+50 E152+50
TA-21-3	DP-3	LABORATORY BUILDING		N87+50 E155+00
TA-21-4	DP-4	LABORATORY BUILDING		N87+50 E155+00
TA-21-5	DP-5	LABORATORY BUILDING		N87+50 E157+50
TA-21-6	DP-6	MACH SHOP, CAFETERIA	REMOVED 1966	
TA-21-7	DP-7	WAREHOUSE	REMOVED 1967	
TA-21-8	DP-8	WAREHOUSE	REMOVED 1967	
TA-21-9	DP-9	STEAM PLANT		N85+00 E162+50
TA-21-10	DP-10	STORAGE BUILDING	REMOVED 1965	
TA-21-11	DP-11	STORAGE BUILDING	REMOVED 1965	
TA-21-12	DP-12	FILTER BUILDING	REMOVED 1973	
TA-21-13	DP-13	STORAGE BUILDING	REMOVED 1965	
TA-21-14	DP-14	INSTRUMENT BUILDING		N90+00 E147+50
TA-21-15	DP-15	PASSAGEWAY	REMOVED 1969	
TA-21-16	DP-16	PASSAGEWAY	REMOVED 1969	
TA-21-17	DP-17	PASSAGEWAY	REMOVED 1969	
TA-21-18	DP-18	PASSAGEWAY		N87+50 E152+50
TA-21-19	DP-19	PASSAGEWAY	REMOVED 1965	
TA-21-20	DP-20	LAUNDRY	REMOVED 1965	
TA-21-21	DP-21	VAULT		N90+00 E152+50
TA-21-22	DP-22	WAREHOUSE	REMOVED 1957	
TA-21-23	DP-23	STORAGE BUILDING	REMOVED 1954	
TA-21-24	DP-24	STORAGE BUILDING	REMOVED 1953	
TA-21-25	DP-25	STORAGE BUILDING	REMOVED 1953	
TA-21-26	DP-26	STORAGE BUILDING	REMOVED 1954	
TA-21-27	DP-27	STORAGE BUILDING	REMOVED 1954	
TA-21-28	DP-28	STORAGE BUILDING	REMOVED 1954	
TA-21-29	DP-29	EMERGENCY EQUIP BLDG	REMOVED 1959	
TA-21-30	DP-30	PAINT SHOP		N92+50 E147+50
TA-21-31	DP-31	ELECTRONICS BUILDING		N92+50 E150+00
TA-21-32	DP-32	WAREHOUSE	REMOVED 1960	
TA-21-33	DP-33	WASTE TREATMENT LAB	REMOVED 1965	
TA-21-34	DP-34	LABORATORY BUILDING	REMOVED 1959	
TA-21-35	DP-35	WASTE DISPOSAL LAB	REMOVED 1968	
TA-21-36	DP-36	GUARD TOWER	REMOVED 1960	
TA-21-37	DP-37	GUARD TOWER	REMOVED 1960	
TA-21-38	DP-38	BARREL STORAGE	REMOVED 1966	
TA-21-39	DP-39	GUARD QUARTERS	REMOVED 1946	
TA-21-40	DP-40	TANK SHELTER		N87+50 E162+50
TA-21-41	DP-41	GUARD TOWER	REMOVED 1960	
TA-21-42	DP-42	PUMP HOUSE		N85+00 E160+00
TA-21-43	DP-43	PUMP HOUSE	REMOVED 1960	
TA-21-44	DP-44	GUARD HOUSE	REMOVED 1964	
TA-21-45	DP-45	SAFETY TRAINING BLDG	REMOVED 1954	
TA-21-46	DP-46	WAREHOUSE		N90+00 E147+50
TA-21-47	DP-47	TANK FUEL	REMOVED 1980	
TA-21-48	DP-48	GUARD HOUSE	REMOVED 1958	
TA-21-49	DP-49	STORAGE BUILDING	REMOVED 1958	
TA-21-50	DP-50	DRUM STORAGE	REMOVED 1961	
TA-21-51	DP-51	CYLINDER STORAGE	REMOVED 1967	
TA-21-52	DP-52	CYLINDER STORAGE	REMOVED 1955	
TA-21-53	DP-53	TANK, SEPTIC	ABANDONED 1966	N92+50 E162+50
TA-21-54	DP-54	LABORATORY BUILDING	REMOVED 1968	
TA-21-55	DP-55	TANK, SEPTIC	ABANDONED 1966	N85+00 E155+00
TA-21-56	DP-56	TANK, SEPTIC	ABANDONED 1966	N82+50 E185+00
TA-21-57	DP-57	TANK	FUEL	N85+00 E162+50
TA-21-58	DP-58	TANK, FUEL	REMOVED 1957	
TA-21-59	DP-59	LABORATORY BUILDING		N85+00 E165+00
TA-21-60	DP-60	TANK FUEL	REMOVED 1957	
TA-21-61	DP-61	LABORATORY BUILDING		N82+50 E165+00
TA-21-62	DP-62	TANK, SEPTIC	REMOVED 1965	
TA-21-63	DP-63	TRANSFORMER STATION	REMOVED 1961	
TA-21-64	DP-64	TANK FUEL	REMOVED 1963	
TA-21-65	DP-65	EXPERIMENTAL BUILDING		N85+00 E165+00
TA-21-66	DP-66	CYLINDER STORAGE		N85+00 E165+00
TA-21-67	DP-67	TRANSFORMER STATION	REMOVED 195[illegible]	
TA-21-68	DP-68	MANHOLE	WATER	N92+50 E145+00
TA-21-69	DP-69	MANHOLE	WATER	N92+50 E145+00
TA-21-70	DP-70	MANHOLE, ACID	REMOVED 196[illegible]	
TA-21-71	DP-71	MANHOLE, STEAM	REMOVED 196[illegible]	
TA-21-72	DP-72	MANHOLE, ELECTRIC	ABANDONED 1964	N87+50 E150+00
TA-21-73	DP-73	MANHOLE, STEAM	REMOVED 1968	
TA-21-74	DP-74	MANHOLE	ACID SUMP	N90+00 E152+50
TA-21-75	DP-75	MANHOLE	STEAM	N90+00 E152+50
TA-21-76	DP-76	MANHOLE	STORM DRAINAGE	N90+00 E152+50
TA-21-77	DP-77	MANHOLE	STEAM	N90+00 E152+50
TA-21-78	DP-78	MANHOLE	STEAM	N90+00 E152+50
TA-21-79	DP-79	MANHOLE	ELECTRICAL	N87+50 E152+50
TA-21-80	DP-80	PRV STATION	WATER	N87+50 E152+50
TA-21-81	DP-81	MANHOLE	ACID	N87+50 E152+50
TA-21-82	DP-82	MANHOLE	WATER PRV.	N87+50 E152+50
TA-21-83	DP-83	PRV STATION	WATER	N87+50 E155+00
TA-21-84	DP-84	MANHOLE	ACID	N87+50 E155+00
TA-21-85	DP-85	MANHOLE	REMOVED 1958	
TA-21-86	DP-86	PRV STATION	WATER	N87+50 E157+50
TA-21-87	DP-87	MANHOLE	ACID	N87+50 E157+50
TA-21-88	DP-88	PRV STATION	WATER	N87+50 E157+50
TA-21-89	DP-89	MANHOLE	ACID	N87+50 E157+50
TA-21-90	DP-90	MANHOLE	REMOVED 1966	
TA-21-91	DP-91	MANHOLE	REMOVED 1961	
TA-21-92	DP-92	MANHOLE	REMOVED 1968	
TA-21-93	DP-93	MANHOLE, ACID	REMOVED 1968	
TA-21-94	DP-94	MANHOLE	ELECTRICAL	N87+50 E180+00
TA-21-95	DP-95	MANHOLE, ELECTRICAL	REMOVED 1967	
TA-21-96	DP-96	MANHOLE	ELECTRICAL	N85+00 E162+50
TA-21-97	DP-97	MANHOLE	FUEL STRAINER PIT	N85+00 E162+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-98	DP-98	MANHOLE	STEAM PIT	N85+00 E162+50
TA-21-99	DP-99	TRANSFORMER STATION		N90+00 E145+00
TA-21-100	DP-100	TRANSFORMER STATION		N87+50 E147+50
TA-21-101	DP-101	TRANSFORMER STATION	REMOVED 1977	
TA-21-102	DP-102	TRANSFORMER STATION	REMOVED 1977	
TA-21-103	DP-103	TRANSFORMER STATION	REMOVED 1977	
TA-21-104	DP-104	TRANSFORMER STATION	REMOVED 1977	
TA-21-105	DP-105	TRANSFORMER STATION	REMOVED 1977	
TA-21-106	DP-106	TANK, SEPTIC	ABANDONED 1966	N85+00 E150+00
TA-21-107	DP-107	TANK	UNDERGROUND, ACID	N87+50 E162+50
TA-21-108	DP-108	TANK	UNDERGROUND, ACID	N87+50 E162+50
TA-21-109	DP-109	TRANSFORMER STATION	REMOVED 1977	
TA-21-110	DP-110	TANK	ACID	N87+50 E160+00
TA-21-111	DP-111	TANK	ACID	N87+50 E160+00
TA-21-112	DP-112	TANK	ACID	N87+50 E160+00
TA-21-113	DP-113	TANK	ACID	N87+50 E160+00
TA-21-114	DP-114	EXPERIMENTAL TOWER	REMOVED 1968	
TA-21-115	DP-115	INSTRUMENT BUILDING	REMOVED 1958	
TA-21-116	DP-116	EQUIPMENT WAREHOUSE		N85+00 E155+00
TA-21-117	DP-117	TOWER		N85+00 E162+50
TA-21-118	DP-118	ACID PIT		N85+00 E152+50
TA-21-119	DP-119	TANK	FUEL	N85+00 E165+00
TA-21-120	DP-120	TANK	ACID	N87+50 E160+00
TA-21-121	DP-121	ACID SUMP		N87+50 E160+00
TA-21-122	DP-122	ACID SUMP		N90+00 E180+00
TA-21-123	DP-123	TANK, ACID	ABANDONED 1966	N87+50 E147+50
TA-21-124	DP-124	TANK, SEPTIC	ABANDONED 1966	N92+50 E145+00
TA-21-125	DP-125	TANK, SEPTIC	ABANDONED 1966	N95+00 E150+00
TA-21-126	DP-126	MANHOLE, ELECTRIC	ABANDONED 1961	N90+00 E147+50
TA-21-127	DP-127	MANHOLE, ELECTRIC	ABANDONED 1961	N90+00 E147+50
TA-21-128	DP-128	MANHOLE, ELECTRIC	ABANDONED 1961	N87+50 E147+50
TA-21-129	DP-129	MANHOLE	REMOVED 196[illegible]	
TA-21-130	DP-130	MANHOLE	WATER PRV	N85+00 E162+50
TA-21-131	DP-131	ACID SUMP		N87+50 E160+00
TA-21-132	DP-132	ACID SUMP		N87+50 E160+00
TA-21-133	DP-133	STORAGE BUILDING	REMOVED 196[illegible]	
TA-21-134	DP-134	PUMP HOUSE	REMOVED 194[illegible]	
TA-21-135	DP-135	PUMP HOUSE	REMOVED 194[illegible]	
TA-21-136	DP-136	RETAINING WALL		N92+50 E150+00
TA-21-137	DP-137	PUMP HOUSE	CANCELLED	
TA-21-138	DP-138	GUARD TOWER	REMOVED 1952	
TA-21-139	DP-139	GUARD TOWER	REMOVED 1952	
TA-21-140	DP-140	GUARD TOWER	REMOVED 1952	
TA-21-141	DP-141	MANHOLE	CANCELLED	
TA-21-142	DP-142	TANK, SEPTIC	REMOVED 1965	
TA-21-143	DP-143	COOLING TOWER		N85+00 E152+50
TA-21-144	DP-144	PASSAGEWAY	BLDG. 116 TO PASS. 315	N85+00 E155+00
TA-21-145	DP-145	TANK	REMOVED 1968	
TA-21-146	DP-146	FILTER BUILDING		N90+00 E155+00
TA-21-147	DP-147	TANK	REMOVED 1968	
TA-21-148	DP-148	SUBSTATION		N85+00 E160+00
TA-21-149	DP-149	CORRIDOR STRUCTURE	BLDG. 5 TO 150	N85+00 E157+50
TA-21-150	DP-150	PLUT. FUEL SERVICE BLDG.		N85+00 E157+50
TA-21-151	DP-151	ADMIN BLDG. & SHOP	REMOVED 1966	
TA-21-152	DP-152	LABORATORY BUILDING		N85+00 E170+00
TA-21-153	DP-153	FILTER	DEMOLISHED 1978	
TA-21-154	DP-154	DOUBLE HUTMENT	REMOVED 1949	
TA-21-155	DP-155	FURNACE BUILDING		N85+00 E170+00
TA-21-156	DP-156	PUMP HOUSE	REMOVED 1964	
TA-21-157	DP-157	GUARD HOUSE	REMOVED 1950	
TA-21-158	DP-158	GUARD TOWER	REMOVED 1960	
TA-21-159	DP-159	PASSAGEWAY	REMOVED 1965	
TA-21-160	DP-160		REMOVED 1971	
TA-21-161	DP-161	TANK, WATER	RELOCATED TO TA-35-36	
TA-21-162	DP-162	TANK, WATER	RELOCATED TO TA-3-738	
TA-21-163	DP-163	TANK, SEPTIC	ABANDONED 1966	N87+50 E187+50
TA-21-164	DP-164	ACID SUMP		N87+50 E172+50
TA-21-165	DP-165	STORAGE BUILDING	REMOVED 1964	
TA-21-166	DP-166	EQUIPMENT BUILDING		N85+00 E170+00
TA-21-167	DP-167	EQUIPMENT BUILDING		N85+00 E170+00
TA-21-168	DP-168	GUARD HOUSE	REMOVED 1965	
TA-21-169	DP-169	MANHOLE, WATER PRV	REMOVED 1966	
TA-21-170	DP-170	MANHOLE	REMOVED 1964	
TA-21-171	DP-171	MANHOLE	WATER VALVE BOX	N87+50 E170+00
TA-21-172	DP-172	PRV STATION	WATER	N85+00 E170+00
TA-21-173	DP-173	MANHOLE	ACID	N85+00 E170+00
TA-21-174	DP-174	MANHOLE	WATER	N85+00 E170+00
TA-21-175	DP-175	MANHOLE	REMOVED 1965	
TA-21-176	DP-176	MANHOLE	REMOVED 1965	
TA-21-177	DP-177	MANHOLE, ELECTRIC	ABANDONED 1965	N82+50 E172+50
TA-21-178	DP-178	TRANSFORMER STATION		N82+50 E172+50
TA-21-179	DP-179	TRANSFORMER STATION	REMOVED 1977	
TA-21-180	DP-180	TRANSFORMER STATION	REMOVED 1965	
TA-21-181	DP-181	TANK, SEPTIC	ABANDONED 1965	N82+50 E172+50
TA-21-182	DP-182	DRUM STORAGE	REMOVED 1964	
TA-21-183	DP-183	GUARD TOWER	REMOVED 1948	
TA-21-184	DP-184	SUBSTATION	REMOVED 1977	
TA-21-185	DP-185	TANK, ACID	REMOVED 1968	
TA-21-186	DP-186	ACID PIT		N90+00 E157+50
TA-21-187	DP-187	TANK ACID	REMOVED 1966	
TA-21-188	DP-188	SUBSTATION		N82+50 E170+00
TA-21-189	DP-189	MANHOLE	ACID	N87+50 E157+50
TA-21-190	DP-190	SAMPLING BUILDING	CANCELLED	
TA-21-191	DP-191	CEMENT STORAGE SILO		N87+50 E160+00
TA-21-192	DP-192	GRIT CHAMBER	REMOVED 1968	
TA-21-193	DP-193	SUBSTATION		N85+00 E157+50
TA-21-194	DP-194	TANK, SEPTIC	ABANDONED 1966	N85+00 E107+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-195	DP-195	MANIFOLD	HELIUM	N87+50 E152+50
TA-21-196	DP-196	MANIFOLD	OXYGEN	N87+50 E157+50
TA-21-197	DP-197	MANIFOLD	HELIUM	N85+00 E157+50
TA-21-198	DP-198	MANIFOLD	CANCELLED	
TA-21-199	DP-199	MANIFOLD	HELIUM	N85+00 E170+00
TA-21-200	DP-200	MANIFOLD	HELIUM	N85+00 E165+00
TA-21-201	DP-201	MANIFOLD	OXYGEN	N87+50 E155+00
TA-21-202	DP-202	MANHOLE	ACID	N85+00 E157+50
TA-21-203	DP-203	DRY AIR SYSTEM BUILDING	CANCELLED	
TA-21-204	DP-204	VALVE PIT	ACID	N87+50 E160+00
TA-21-205	DP-205	VALVE PIT	ACID	N87+50 E160+00
TA-21-206	DP-206	DEVELOPMENT BUILDING	INCORPORATED DP-155	N85+00 E170+00
TA-21-207	DP-207	FURNACE BUILDING	INCORPORATED DP-155	N85+00 E170+00
TA-21-208	DP-208	RETAINING WALL		N85+00 E157+50
TA-21-209	DP-209	HIGH TEMP CHEMISTRY BLDG		N85+00 E172+50
TA-21-210	DP-210	PU RESEARCH SUPPORT BLDG		N87+50 E150+00
TA-21-211	DP-211	MANIFOLD		N85+00 E170+00
TA-21-212	DP-212	CALCIUM BUILDING		N92+50 E152+50
TA-21-213	DP-213	LAB SUPPLY WAREHOUSE		N87+50 E170+00
TA-21-214	DP-214	GUARD HOUSE	RELOCATED TO TA-49-1	
TA-21-215	DP-215	MANIFOLD	ARGON	N85+00 E157+50
TA-21-216	DP-216	MANHOLE	STEAM	N85+00 E170+00
TA-21-217	DP-217	MANHOLE	SANITARY	N85+00 E170+00
TA-21-218	DP-218	MANHOLE	SANITARY	N82+50 E170+00
TA-21-219	DP-219	TANK, SEPTIC	ABANDONED 1966	N82+50 E170+00
TA-21-220	DP-220	COOLING TOWER		N85+00 E167+50
TA-21-221	DP-221	MANHOLE	ACID	N85+00 E170+00
TA-21-222	DP-222	MANHOLE	ACID	N85+00 E170+00
TA-21-223	DP-223	MANHOLE	ACID SUMP	N87+50 E170+00
TA-21-224	DP-224	MANHOLE	ELECTRIC	N87+50 E150+00
TA-21-225	DP-225	TANK, SEPTIC	REMOVED 1966	
TA-21-226	DP-226	MANIFOLD	REMOVED 1968	
TA-21-227	DP-227	SEWAGE TREATMENT PLANT		N82+50 E182+50
TA-21-228	DP-228	REPLACEMENT WAREHOUSE		N90+00 E157+50
TA-21-229	DP-229	CONTROL BUILDING		N82+50 E182+50
TA-21-230	DP-230	SLUDGE DRYING BEDS		N82+50 E182+50
TA-21-231	DP-231	MANHOLE	SANITARY	N82+50 E180+00
TA-21-232	DP-232	MANHOLE	SANITARY	N82+50 E180+00
TA-21-233	DP-233	MANHOLE	SANITARY	N82+50 E175+00
TA-21-234	DP-234	MANHOLE	SANITARY	N82+50 E172+50
TA-21-235	DP-235	MANHOLE	SANITARY	N82+50 E170+00
TA-21-236	DP-236	MANHOLE	SANITARY	N82+50 E170+00
TA-21-237	DP-237	MANHOLE	SANITARY	N82+50 E165+00
TA-21-238	DP-238	MANHOLE	SANITARY	N82+50 E162+50
TA-21-239	DP-239	MANHOLE	SANITARY	N82+50 E162+50
TA-21-240	DP-240	MANHOLE	SANITARY	N82+50 E160+00
TA-21-241	DP-241	MANHOLE	SANITARY	N85+00 E160+00
TA-21-242	DP-242	MANHOLE	SANITARY	N87+50 E160+00
TA-21-243	DP-243	MANHOLE	SANITARY	N82+50 E157+50
TA-21-244	DP-244	MANHOLE	SANITARY	N82+50 E157+50
TA-21-245	DP-245	MANHOLE	SANITARY	N85+00 E157+50
TA-21-246	DP-246	MANHOLE	SANITARY	N85+00 E152+50
TA-21-247	DP-247	MANHOLE	SANITARY	N85+00 E150+00
TA-21-248	DP-248	MANHOLE	SANITARY	N85+00 E150+00
TA-21-249	DP-249	MANHOLE	SANITARY	N87+50 E147+50
TA-21-250	DP-250	MANHOLE	SANITARY	N90+00 E147+50
TA-21-251	DP-251	MANHOLE	SANITARY	N90+00 E147+50
TA-21-252	DP-252	MANHOLE	SANITARY	N92+50 E147+50
TA-21-253	DP-253	MANHOLE	ELECTRIC	N92+50 E147+50
TA-21-254	DP-254	GUARD HOUSE		
TA-21-255	DP-255	TANK	REMOVED 1968	
TA-21-256	DP-256	TANK	ACID	N87+57 E157+50
TA-21-257	DP-257	WASTE DISPOSAL PLANT		N87+50 E160+00
TA-21-258	DP-258	TANK	WATER	N92+50 E147+50
TA-21-259	DP-259	MANHOLE	WATER	N92+50 E147+50
TA-21-260	DP-260	MANHOLE	STEAM PIT	N90+00 E147+50

UNCLASSIFIED

FIGURE 21-12

TA-21 STRUCTURE LOCATION INDEX
(1 OF 2)

REV	DATE	REVISION	BY	CKD	APP
18	9-22-83	REVISED TITLE BLOCK AND DWG TO STATUS OF 9-1-83	VM		

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Los Alamos National Laboratory
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FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-21 DP-SITE

SEC CLASSIFICATION: CLASS U; REVIEWED; DATE 9-22-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 9-22-83; SHEET NO 1 OF 1; DRAWING NO ENG-R5113

301215 02 01 B2B

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-261	DP-261	MANHOLE	STEAM	N92+50 E147+50
TA-21-262	DP-262	TANK, ACID	CANCELLED	
TA-21-263	DP-263	TANK, ACID	CANCELLED	
TA-21-264	DP-264	MANHOLE	SANITARY	N82+50 E185+00
TA-21-265	DP-265	MANHOLE	SANITARY	N82+50 E185+00
TA-21-266	DP-266	MANHOLE	STEAM PIT	N85+00 E162+50
TA-21-267	DP-267	MANHOLE	STEAM PIT	N85+00 E162+50
TA-21-268	DP-268	TANK	FUEL	N85+00 E162+50
TA-21-269	DP-269	MANHOLE	WATER PRV	N92+50 E145+00
TA-21-270	DP-270	MANHOLE	WATER PRV	N87+50 E170+00
TA-21-271	DP-271	MANHOLE, ACID FLOW METER	REMOVED 1968	
TA-21-272	DP-272	CONCRETE PAD		N87+50 E155+00
TA-21-273	DP-273	MANHOLE	SANITARY	N85+00 E152+50
TA-21-274	DP-274	MANHOLE	SANITARY	N85+00 E155+00
TA-21-275	DP-275	MANHOLE	SANITARY	N85+00 E155+00
TA-21-276	DP-276	TRANSFORMER STATION		N82+50 E160+00
TA-21-277	DP-277	TRANSFORMER STATION		
TA-21-278	DP-278	TRANSFORMER STATION	REMOVED 1977	
TA-21-279	DP-279	TRANSFORMER STATION		
TA-21-280	DP-280	TRANSFORMER STATION	REMOVED 1977	
TA-21-281	DP-281	TRANSFORMER STATION	REMOVED 1977	
TA-21-282	DP-282	TRANSFORMER STATION	REMOVED 1977	
TA-21-283	DP-283	TRANSFORMER STATION	REMOVED 1977	
TA-21-284	DP-284	TRANSFORMER STATION		
TA-21-285	DP-285	TRANSFORMER STATION		
TA-21-286	DP-286	HOT STORAGE REPL WHSE		N90+00 E157+50
TA-21-287	DP-287	TANK	LIQUID ARGON	N85+00 E170+00
TA-21-288	DP-288	TANK	ACID	N87+50 E160+00
TA-21-289	DP-289	TANK	ACID	N87+50 E160+00
TA-21-290	DP-290	MANIFOLD		N87+50 E152+50
TA-21-291	DP-291	TRAILER, OFFICE	RENUMBERED TA-0-301	RELOC. TO TA-53
TA-21-292	DP-292	TRAILER, OFFICE	RENUMBERED TA-0-305	RELOC. TO TA-3
TA-21-293	DP-293	TRAILER, OFFICE	RENUMBERED TA-0-311	RELOC. TO TA-53
TA-21-294	DP-294	TRAILER, OFFICE	RENUMBERED TA-0-304	RELOC. TO TA-36
TA-21-295	DP-295	TRAILER, OFFICE	RENUMBERED TA-0-303	RELOC. IN TA-21
TA-21-296	DP-296	TRAILER, OFFICE	RENUMBERED TA-0-306	RELOC. TO TA-35
TA-21-297	DP-297	TRAILER, OFFICE	RENUMBERED TA-0-307	RELOC. TO TA-15
TA-21-298	DP-298			
TA-21-299	DP-299			
TA-21-300	DP-300			
TA-21-301	DP-301	TRANSFORMER STATION	REMOVED 1977	
TA-21-302	DP-302			
TA-21-303	DP-303	MANHOLE	ELECTRICAL, PRI.	N85+00 E160+00
TA-21-304	DP-304	MANHOLE	ELECTRICAL, PRI.	N85+00 E157+50
TA-21-305	DP-305	MANIFOLD		N92+50 E152+50
TA-21-306	DP-306			
TA-21-307	DP-307	SUBSTATION		N92+50 E147+50
TA-21-308	DP-308	SUBSTATION		N90+00 E155+00
TA-21-309	DP-309	SUBSTATION		N85+00 E160+00
TA-21-310	DP-310	CABINET, TELEPHONE		N90+00 E155+00
TA-21-311	DP-311	CABINET, TELEPHONE		N85+00 E160+00
TA-21-312	DP-312	CORRIDOR STRUCTURE	REPLACES TA-21-18	N87+50 E152+50
TA-21-313	DP-313	CORRIDOR STRUCTURE	REPLACES TA-21-15	N87+50 E152+50
TA-21-314	DP-314	CORRIDOR STRUCTURE	REPLACES TA-21-16	N87+50 E152+50
TA-21-315	DP-315	CORRIDOR STRUCTURE	REPLACES TA-21-17	N87+50 E152+50
TA-21-316	DP-316	MANHOLE, TELEPHONE		N85+00 E160+00
TA-21-317	DP-317	MANHOLE, TELEPHONE		N85+00 E157+50
TA-21-318	DP-318	CAPACITOR BANK		
TA-21-319	DP-319	TRAILER, OFFICE	RENUMBERED TA-0-593	RELOC. IN TA-21
TA-21-320	DP-320	CABINET, TELEPHONE		N92+50 E147+50
TA-21-321	DP-321	TRANSFORMER STATION		
TA-21-322	DP-322	EXH. STACK & FIL. HSG.		N85+00 E170+00
TA-21-323	DP-323	EXH. STACK & FIL. HSG.		N85+00 E170+00
TA-21-324	DP-324	FILTER HOUSE		N90+00 E155+00
TA-21-325	DP-325	TANK	NITRIC ACID STORAGE	N87+50 E152+50
TA-21-326	DP-326	TRANSFORMER		N90+00 E147+50
TA-21-327	DP-327	TRANSFORMER		N82+50 E172+50
TA-21-328	DP-328	MATERIAL RECEIVING FAC. BLDG		N87+50 E150+00
TA-21-329	DP-329	FIRE SCREEN	REMOVED 198[illegible]	
TA-21-330	DP-330	PLATFORM (GAS LOADING)		N85+00 E155+00
TA-21-331	DP-331	WASTE STORAGE TEST PIT		N92+50 E152+50
TA-21-332	DP-332	CANCELLED		
TA-21-333	DP-333	CANCELLED		
TA-21-334	DP-334	METAL UTILITY SHED		N92+50 E147+50
TA-21-335	DP-335	CONTAINMENT VESSEL		N92+50 E155+00
TA-21-336	DP-336	MODULAR OFFICE BUILDING	RELOCATED TO TA-53-20	
TA-21-337	DP-337	MODULAR OFFICE BUILDING	RELOCATED TO TA-53-21	
TA-21-338	DP-338	SUBSTATION		N85+00 E157+50
TA-21-339	DP-339		CANCELLED	
TA-21-340	DP-340	TRANSFORMER STATION		N80+00 E160+00
TA-21-341	DP-341	TANK	PROPANE	N87+50 E152+50
TA-21-342	DP-342	TANK	WATER	N85+00 E160+00
TA-21-343	DP-343	MANHOLE	WATER	N87+50 E150+00
TA-21-344	DP-344	GUARD STATION		N87+50 E152+00
TA-21-345	DP-345	GUARD STATION		N85+00 E155+00
TA-21-346	DP-346	TANK, PUMP STATION	NOT SHOWN	
TA-21-347	DP-347	MANHOLE, STEAM	NOT SHOWN	
TA-21-348	DP-348	SEWAGE PIT	NOT SHOWN	
TA-21-349	DP-349	TRAILER, LUNCH ROOM		N85+00 E155+00
TA-21-350	DP-350	TRAILER, OFFICE	FORMERLY TA-0-303	N87+50 E152+50
TA-21-351	DP-351	TRAILER, OFFICE	FORMERLY TA-0-447	N87+50 E150+00
TA-21-352	DP-352	TRAILER, OFFICE	FORMERLY TA-0-456	N87+50 E152+50
TA-21-353	DP-353	TRAILER, CHANGE ROOM	FORMERLY TA-0-500	N85+00 E152+50
TA-21-354	DP-354	TRAILER, OFFICE	FORMERLY TA-0-516	N87+50 E155+00
TA-21-355	DP-355	TRAILER, OFFICE	FORMERLY TA-0-593	N87+00 E157+50
TA-21-356	DP-356	TRAILER, OFFICE	FORMERLY TA-0-712	N87+50 E152+50
TA-21-357	DP-357	STEAM PLANT		N82+50 E162+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 21-12

TA-21 STRUCTURE LOCATION INDEX
(2 OF 2)

REV	DATE	REVISION	BY	CKD	APP
8	9-22-83	REVISED TITLE BLOCK AND DWG TO STATUS OF 8-1-83	VM		

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INDEX SHEET
STRUCTRUE LOCATION PLAN
TA-21 DP-SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 9-22-83

SUBMITTED: Nate Ryder
RECOMMENDED: Dennis Rogers
APPROVED: W T Inkster

DRAWN: V Mc
CHECKED: P Ellison
DATE: 9-22-83
SHEET NO: 2 OF 2
DRAWING NO: ENG-R5113

DECLASSIFIED

301215 02 01 B173

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-1	DP-1	ADMINISTRATION BLDG		N87+50 E150+00
TA-21-2	DP-2	LABORATORY BUILDING		N87+50 E152+50
TA-21-3	DP-3	LABORATORY BUILDING		N87+50 E155+00
TA-21-4	DP-4	LABORATORY BUILDING		N87+50 E155+00
TA-21-5	DP-5	LABORATORY BUILDING		N87+50 E157+50
TA-21-6	DP-6	MACH. SHOP & CAFETERIA		N87+50 E152+50
TA-21-7	DP-7	WAREHOUSE		N90+00 E150+00
TA-21-8	DP-8	WAREHOUSE		N90+00 E150+00
TA-21-9	DP-9	STEAM PLANT		N85+00 E162+50
TA-21-10	DP-10	STORAGE BUILDING		N85+00 E155+00
TA-21-11	DP-11	STORAGE BUILDING		N85+00 E155+00
TA-21-12	DP-12	FILTER BUILDING		N90+00 E155+00
TA-21-13	DP-13	STORAGE BUILDING		N85+00 E157+50
TA-21-14	DP-14	WAREHOUSE		N90+00 E147+50
TA-21-15	DP-15	PASSAGEWAY	BLDG. 2 TO 3	N87+50 E152+50
TA-21-16	DP-16	PASSAGEWAY	BLDG. 3 TO 4	N87+50 E155+00
TA-21-17	DP-17	PASSAGEWAY	BLDG. 4 TO 5	N87+50 E157+50
TA-21-18	DP-18	PASSAGEWAY	BLDG. 1 TO 2	N87+50 E152+50
TA-21-19	DP-19	PASSAGEWAY	BLDG. 1 TO 6	N87+50 E152+50
TA-21-20	DP-20	LAUNDRY		N90+00 E145+00
TA-21-21	DP-21	VAULT		N90+00 E152+50
TA-21-22	DP-22	WAREHOUSE		N90+00 E150+00
TA-21-23	DP-23	STORAGE BUILDING	REMOVED 1954	
TA-21-24	DP-24	STORAGE BUILDING	REMOVED 1953	
TA-21-25	DP-25	STORAGE BUILDING	REMOVED 1953	
TA-21-26	DP-26	STORAGE BUILDING	REMOVED 1954	
TA-21-27	DP-27	STORAGE BUILDING	REMOVED 1954	
TA-21-28	DP-28	STORAGE BUILDING	REMOVED 1954	
TA-21-29	DP-29	EMERGENCY EQUIP BLDG.	REMOVED 1957	
TA-21-30	DP-30	PAINT SHOP		N92+50 E147+50
TA-21-31	DP-31	ELECTRONICS BUILDING		N92+50 E150+00
TA-21-32	DP-32	WAREHOUSE	REMOVED 1960	
TA-21-33	DP-33	WASTE TREATMENT LAB		N90+00 E142+50
TA-21-34	DP-34	LABORATORY BUILDING		N87+50 E155+00
TA-21-35	DP-35	WASTE DISPOSAL LAB		N87+50 E157+50
TA-21-36	DP-36	GUARD TOWER	REMOVED 1960	
TA-21-37	DP-37	GUARD TOWER	REMOVED 1960	
TA-21-38	DP-38	BARREL STORAGE		N92+50 E150+00
TA-21-39	DP-39	GUARD QUARTERS	REMOVED 1948	
TA-21-40	DP-40	TANK SHELTER		N87+50 E162+50
TA-21-41	DP-41	GUARD TOWER	REMOVED 1960	
TA-21-42	DP-42	PUMP HOUSE		N85+00 E160+00
TA-21-43	DP-43	PUMP HOUSE	REMOVED 1960	
TA-21-44	DP-44	GUARD HOUSE	REMOVED 1964	
TA-21-45	DP-45	SAFETY TRAINING BLDG	REMOVED 1954	
TA-21-46	DP-46	WAREHOUSE		N90+00 E147+50
TA-21-47	DP-47	FUEL TANK	REMOVED 1960	
TA-21-48	DP-48	GUARD HOUSE	REMOVED 1958	
TA-21-49	DP-49	STORAGE BUILDING	REMOVED 1958	
TA-21-50	DP-50	DRUM STORAGE	REMOVED 1954	
TA-21-51	DP-51	CYLINDER STORAGE		N90+00 E152+50
TA-21-52	DP-52	CYLINDER STORAGE	REMOVED 1955	
TA-21-53	DP-53	SEPTIC TANK	SANITARY	N82+50 E162+50
TA-21-54	DP-54	LABORATORY BUILDING		N85+00 E165+00
TA-21-55	DP-55	SEPTIC TANK	SANITARY	N85+00 E155+00
TA-21-56	DP-55	SEPTIC TANK	SANITARY	N82+50 E165+00
TA-21-57	DP-57	FUEL TANK		N85+00 E162+50
TA-21-58	DP-58	FUEL TANK	REMOVED 1957	
TA-21-59	DP-59	LABORATORY BUILDING		N85+00 E165+00
TA-21-60	DP-60	FUEL TANK	REMOVED 1957	
TA-21-61	DP-61	LABORATORY BUILDING		N82+50 E165+00
TA-21-62	DP-62	SEPTIC TANK	SANITARY	N90+00 E142+50
TA-21-63	DP-63	TRANSFORMER STATION		N90+00 E147+50
TA-21-64	DP-64	FUEL TANK	REMOVED 1963	
TA-21-65	DP-65	EXPERIMENTAL BUILDING		N85+00 E165+00
TA-21-66	DP-66	CYLINDER STORAGE		N85+00 E165+00
TA-21-67	DP-67	TRANSFORMER STATION		N90+00 E147+50
TA-21-68	DP-68	MANHOLE	WATER	N92+50 E145+00
TA-21-69	DP-69	MANHOLE	WATER	N92+50 E145+00
TA-21-70	DP-70	MANHOLE	ACID	N92+50 E150+00
TA-21-71	DP-71	MANHOLE	STEAM	N90+00 E150+00
TA-21-72	DP-72	MANHOLE	ELECTRICAL	N87+50 E150+00
TA-21-73	DP-73	MANHOLE	STEAM	N90+00 E152+50
TA-21-74	DP-74	MANHOLE	STEAM	N90+00 E152+50
TA-21-75	DP-75	MANHOLE	STEAM	N90+00 E152+50
TA-21-76	DP-76	MANHOLE	STORM DRAINAGE	N90+00 E152+50
TA-21-77	DP-77	MANHOLE	STEAM	N90+00 E152+50
TA-21-78	DP-78	MANHOLE	STEAM	N90+00 E152+50
TA-21-79	DP-79	MANHOLE	ELECTRICAL	N87+50 E152+50
TA-21-80	DP-80	MANHOLE	WATER PRV.	N87+50 E152+50
TA-21-81	DP-81	MANHOLE	ACID	N87+50 E152+50
TA-21-82	DP-82	MANHOLE	WATER PRV.	N87+50 E152+50
TA-21-83	DP-83	MANHOLE	WATER	N87+50 E155+00
TA-21-84	DP-84	MANHOLE	ACID	N87+50 E155+00
TA-21-85	DP-85	MANHOLE	WATER	N87+50 E155+00
TA-21-86	DP-86	MANHOLE	WATER PRV.	N87+50 E157+50
TA-21-87	DP-87	MANHOLE	ACID	N87+50 E157+50
TA-21-88	DP-88	MANHOLE	WATER PRV.	N87+50 E157+50
TA-21-89	DP-89	MANHOLE	ACID	N87+50 E157+50
TA-21-90	DP-90	MANHOLE	ELECTRICAL	N90+00 E157+50
TA-21-91	DP-91	MANHOLE	REMOVED 1961	
TA-21-92	DP-92	MANHOLE	REMOVED 1961	
TA-21-93	DP-93	MANHOLE	WATER	N87+50 E157+50
TA-21-94	DP-94	MANHOLE	ELECTRICAL	N87+50 E160+00
TA-21-95	DP-95	MANHOLE	ELECTRICAL	N87+50 E160+00
TA-21-96	DP-96	MANHOLE	ELECTRICAL	N85+00 E162+50
TA-21-97	DP-97	MANHOLE	STEAM STRAINER PIT	N85+00 E162+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-98	DP-98	MANHOLE	ACID	N85+00 E162+50
TA-21-99	DP-99	TRANSFORMER STATION		N90+00 E145+00
TA-21-100	DP-100	TRANSFORMER STATION		N87+50 E147+50
TA-21-101	DP-101	TRANSFORMER STATION		N87+50 E150+00
TA-21-102	DP-102	TRANSFORMER STATION		N85+00 E152+50
TA-21-103	DP-103	TRANSFORMER STATION		N85+00 E155+00
TA-21-104	DP-104	TRANSFORMER STATION		N85+00 E157+50
TA-21-105	DP-105	TRANSFORMER STATION		N82+50 E162+50
TA-21-106	DP-106	SEPTIC TANK	SANITARY	N85+00 E150+00
TA-21-107	DP-107	ACID TANK	UNDERGROUND	N87+50 E162+50
TA-21-108	DP-108	ACID TANK	UNDERGROUND	N87+50 E162+50
TA-21-109	DP-109	TRANSFORMER STATION		N90+00 E155+00
TA-21-110	DP-110	ACID HOLDING TANK		N87+50 E160+00
TA-21-111	DP-111	ACID HOLDING TANK		N87+50 E160+00
TA-21-112	DP-112	ACID HOLDING TANK		N87+50 E160+00
TA-21-113	DP-113	ACID HOLDING TANK		N87+50 E160+00
TA-21-114	DP-114	EXPERIMENTAL TOWER	FORMERLY TA-33-38	N85+00 E162+50
TA-21-115	DP-115	INSTRUMENT BUILDING	REMOVED 1958	
TA-21-116	DP-116	EQUIPMENT WAREHOUSE		N85+00 E155+00
TA-21-117	DP-117	TOWER		N85+00 E162+50
TA-21-118	DP-118	ACID PIT		N85+00 E152+50
TA-21-119	DP-119	FUEL TANK		N85+00 E165+00
TA-21-120	DP-120	ACID TANK		N87+50 E160+00
TA-21-121	DP-121	ACID SUMP		N87+50 E160+00
TA-21-122	DP-122	ACID SUMP		N90+00 E160+00
TA-21-123	DP-123	SEPTIC TANK	ACID	N87+50 E147+50
TA-21-124	DP-124	SEPTIC TANK	ABANDONED 1955	N92+50 E145+00
TA-21-125	DP-125	SEPTIC TANK	SANITARY	N95+00 E150+00
TA-21-126	DP-126	MANHOLE	ELECTRICAL	N90+00 E147+50
TA-21-127	DP-127	MANHOLE	ELECTRICAL	N90+00 E147+50
TA-21-128	DP-128	MANHOLE	ELECTRICAL	N87+50 E147+50
TA-21-129	DP-129	MANHOLE	WATER PRV.	N87+50 E152+50
TA-21-130	DP-130	MANHOLE	WATER PRV.	N85+00 E162+50
TA-21-131	DP-131	ACID SUMP		N87+50 E160+00
TA-21-132	DP-132	ACID SUMP		N87+50 E160+00
TA-21-133	DP-133	STORAGE BUILDING	REMOVED 1952	
TA-21-134	DP-134	PUMP HOUSE	REMOVED 1948	
TA-21-135	DP-135	PUMP HOUSE	REMOVED 1948	
TA-21-136	DP-136	RETAINING WALL		N92+50 E150+00
TA-21-137	DP-137	PUMP HOUSE	CANCELLED	
TA-21-138	DP-138	GUARD TOWER	REMOVED 1952	
TA-21-139	DP-139	GUARD TOWER	REMOVED 1952	
TA-21-140	DP-140	GUARD TOWER	REMOVED 1952	
TA-21-141	DP-141	MANHOLE	CANCELLED	
TA-21-142	DP-142	SEPTIC TANK	SANITARY	N87+50 E155+00
TA-21-143	DP-143	COOLING TOWER		N85+00 E152+50
TA-21-144	DP-144	PASSAGEWAY	BLDG. 116 TO PASS. 17	N85+00 E155+00
TA-21-145	DP-145	ACID TANK		N87+50 E157+50
TA-21-146	DP-146	FILTER BUILDING		N90+00 E155+00
TA-21-147	DP-147	ACID TANK		N87+50 E157+50
TA-21-148	DP-148	TRANSFORMER STATION		N85+00 E160+00
TA-21-149	DP-149	PASSAGEWAY	BLDG. 5 TO 150	N85+00 E157+50
TA-21-150	DP-150	PLUT. FUEL SERVICE BLDG.		N85+00 E157+50
TA-21-151	DP-151	ADMIN. BLDG. & SHOP		N85+00 E167+50
TA-21-152	DP-152	LABORATORY BUILDING		N85+00 E170+00
TA-21-153	DP-153	FILTER BUILDING		N87+50 E172+50
TA-21-154	DP-154	DOUBLE HUTMENT	REMOVED 1949	
TA-21-155	DP-155	WAREHOUSE & LAB.		N85+00 E170+00
TA-21-156	DP-156	PUMP HOUSE		N85+00 E167+50
TA-21-157	DP-157	GUARD HOUSE	REMOVED 1950	
TA-21-158	DP-158	GUARD TOWER	REMOVED 1960	
TA-21-159	DP-159	PASSAGEWAY	BLDG. 151 TO 152	N85+00 E170+00
TA-21-160	DP-160	TANK SHELTER		N87+50 E170+00
TA-21-161	DP-161	TANK	REMOVED 1958	
TA-21-162	DP-162	WATER TANK		N85+00 E167+50
TA-21-163	DP-163	SEPTIC TANK	SANITARY	N87+50 E167+50
TA-21-164	DP-164	ACID SUMP		N87+50 E172+50
TA-21-165	DP-165	STORAGE BUILDING		N85+00 E172+50
TA-21-166	DP-166	EQUIPMENT BUILDING		N85+00 E170+00
TA-21-167	DP-167	EQUIPMENT BUILDING		N85+00 E170+00
TA-21-168	DP-168	GUARD HOUSE	STA.127 FORM. TA-16-1133	N85+00 E167+50
TA-21-169	DP-169	MANHOLE	WATER PRV.	N85+00 E167+50
TA-21-170	DP-170	MANHOLE	REMOVED 1964	
TA-21-171	DP-171	MANHOLE	WATER VALVE BOX	N87+50 E170+00
TA-21-172	DP-172	MANHOLE	WATER PRV.	N85+00 E170+00
TA-21-173	DP-173	MANHOLE	SANITARY	N85+00 E170+00
TA-21-174	DP-174	MANHOLE	WATER	N85+00 E170+00
TA-21-175	DP-175	MANHOLE	SANITARY	N85+00 E170+00
TA-21-176	DP-176	MANHOLE	ELECTRICAL	N85+00 E172+50
TA-21-177	DP-177	MANHOLE	ELECTRICAL	N82+50 E172+50
TA-21-178	DP-178	TRANSFORMER STATION		N82+50 E172+50
TA-21-179	DP-179	TRANSFORMER STATION		N82+50 E167+50
TA-21-180	DP-180	TRANSFORMER STATION		N85+00 E172+50
TA-21-181	DP-18	SEPTIC TANK	SANITARY	N82+50 E172+50
TA-21-182	DP-182	DRUM STORAGE	REMOVED 1958	
TA-21-183	DP-183	GUARD TOWER	REMOVED 1948	
TA-21-184	DP-184	SUBSTATION		N82+50 E170+00
TA-21-185	DP-185	SEPTIC TANK	ACID	N87+50 E160+00
TA-21-186	DP-186	ACID PIT		N90+00 E157+50
TA-21-187	DP-187	SEPTIC TANK	ACID	N87+50 E155+00
TA-21-188	DP-188	TRANSFORMER STATION		N82+50 E170+00
TA-21-189	DP-189	MANHOLE	ACID	N87+50 E157+50
TA-21-190	DP-190	SAMPLING BUILDING	CANCELLED	
TA-21-191	DP-191	CEMENT STORAGE SILO		N87+50 E160+00
TA-21-192	DP-192	GRIT CHAMBER		N87+50 E160+00
TA-21-193	DP-193	SUBSTATION		N85+00 E157+50
TA-21-194	DP-194	SEPTIC TANK	SANITARY	N85+00 E167+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-195	DP-195	MANIFOLD	HELIUM	N87+50 E15[illegible]+50
TA-21-196	DP-196	MANIFOLD	OXYGEN	N87+50 E157+50
TA-21-197	DP-197	MANIFOLD	HELIUM	N85+00 E157+50
TA-21-198	DP-198	MANIFOLD	CANCELLED	
TA-21-199	DP-199	MANIFOLD	HELIUM	N85+00 E170+00
TA-21-200	DP-200	MANIFOLD	HELIUM	N85+00 E165+00
TA-21-201	DP-201	MANIFOLD	OXYGEN	N87+50 E155+00
TA-21-202	DP-202	MANHOLE	ACID	N85+00 E157+50
TA-21-203	DP-203	DRY AIR SYSTEM BUILDING	CANCELLED	
TA-21-204	DP-204	VALVE PIT	ACID	N87+50 E160+00
TA-21-205	DP-205	VALVE PIT	ACID	N87+50 E160+00
TA-21-206	DP-206	DEVELOPMENT BUILDING		N85+00 E170+00
TA-21-207	DP-207	FURNACE BUILDING	PROPOSED	
TA-21-208	DP-208	RETAINING WALL		N85+00 E157+50
TA-21-209	DP-209	HIGH TEMP. CHEMISTRY BLDG.	PROPOSED	
TA-21-210	DP-210	PU RESEARCH SUPPORT BLDG.	PROPOSED	
TA-21-211	DP-211	MANIFOLD		N85+00 E170+00
TA-21-212	DP-212	CALCIUM BUILDING	PROPOSED	
TA-21-213	DP-213	LAB SUPPLY WAREHOUSE	PROPOSED	
TA-21-214	DP-214	GUARD HOUSE	STATION 215	N90+00 E147+50

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FIGURE 21-13

TA-21 STRUCTURE LOCATION INDEX

NO.	DATE	REVISIONS	DLG	DDS	BY
10	5-13-64	REVISED TO STATUS OF 5-64			
9	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R138)			

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

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

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-21 DP-SITE

CHECKED: PROJ. ENG. — RECOMMENDED: GROUP LEADER — APPROVED: ENG. DEPT. OFFICE

DESIGNER — DRAWN: DD SIMES — SCALE: NONE — DATE: 8-15-61 — SHEET 1 OF 2 — DRAWING NO.: ENG-R 2449

301215 02 01 B27

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-21-261	DP-261	MANHOLE	STEAM	N92+50 E147+50
TA-21-262	DP-262	TANK, ACID	PROPOSED	
TA-21-263	DP-263	TANK, ACID	CANCELLED	
TA-21-264	DP-264	MANHOLE	SANITARY	N82+50 E185+00
TA-21-265	DP-265	MANHOLE	SANITARY	N82+50 E185+00
TA-21-266	DP-266	MANHOLE	STEAM PIT	N85+00 E162+50
TA-21-267	DP-267	MANHOLE	STEAM PIT	N85+00 E162+50
TA-21-268	DP-268	TANK	FUEL	N85+00 E162+50
TA-21-269	DP-269	MANHOLE	WATER PRV	N92+50 E145+00
TA-21-270	DP-270	MANHOLE	WATER PRV	N87+50 E170+00
TA-21-271	DP-271	MANHOLE	ACID FLOW METER	N87+50 E157+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

D R A F T

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FIGURE 21-14

TA-21 STRUCTURE LOCATION INDEX

NOTE:
THIS SET OF FOUR DRAWINGS CONSISTS OF:
ENG-R2448, INDEX SHEET, 1 OF 4
ENG-R2450, INDEX SHEET, 2 OF 4
ENG-R2451, SITE MAP, 3 OF 4
ENG-R2452, SITE MAP, 4 OF 4
THIS SET VOIDS AND SUPERSEDES DRAWINGS
ENG-R2448, REV NO 10, DATED 3-13-84
ENG-R2450, REV NO 10, DATED 3-13-84

NO	DATE	REVISIONS	BY	CHKD
0	2-25-86	REDRAWN TO STATUS OF 2-86 (SEE NOTE)		

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UNIVERSITY OF CALIFORNIA — LOS ALAMOS NEW MEXICO

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-21 DP-SITE

DRAWN T ROYBAL
SCALE NONE
DATE 2-25-86
SHEET 2 OF 4
ENG-R 2450

B A NO LAB JOB NO

301215 02 01 B25

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-21-1	DP - 1	ADMINISTRATION BUILDING
TA-21-2	DP - 2	LABORATORY
TA-21-3	DP - 3	LABORATORY
TA-21-4	DP - 4	LABORATORY
TA-21-5	DP - 5	LABORATORY
TA-21-6	DP - 6	MACHINE SHOP & CAFETERIA
TA-21-7	DP - 7	WAREHOUSE
TA-21-8	DP - 8	WAREHOUSE
TA-21-9	DP - 9	STEAM PLANT
TA-21-10	DP - 10	STORAGE
TA-21-11	DP - 11	STORAGE
TA-21-12	DP - 12	FILTER HOUSE
TA-21-13	DP - 13	STORAGE
TA-21-14	DP - 14	POWER PLANT
TA-21-15	DP - 15	PASSAGEWAY (BLDG 2 TO 3)
TA-21-16	DP - 16	PASSAGEWAY (BLDG 3 TO 4)
TA-21-17	DP - 17	PASSAGEWAY (BLDG 4 TO 5)
TA-21-18	DP - 18	PASSAGEWAY (BLDG TO 2)
TA-21-19	DP - 19	PASSAGEWAY (BLDG 1 TO 6)
TA-21-20	DP - 20	LAUNDRY
TA-21-21	DP - 21	VAULT
TA-21-22	DP - 22	WAREHOUSE
TA-21-23	DP - 23	STORAGE BLDG (REMOVED) 1954
TA-21-24	DP - 24	STORAGE BLDG. (REMOVED) 1953
TA-21-25	DP - 25	STORAGE BLDG (REMOVED) 1953
TA-21-26	DP - 26	STORAGE BLDG (REMOVED) 1954
TA-21-27	DP - 27	STORAGE BLDG. (REMOVED) 1954
TA-21-28	DP - 28	STORAGE BLDG (REMOVED) 1954
TA-21-29	DP - 29	EMERGENCY SHACK (WAS TA-1-7)
TA-21-30	DP - 30	PAINT SHOP
TA-21-31	DP - 31	SHOPS
TA-21-32	DP - 32	WAREHOUSE
TA-21-33	DP - 33	WASTE TREATMENT LAB
TA-21-34	DP - 34	LABORATORY
TA-21-35	DP - 35	WASTE DISPOSAL LAB
TA-21-36	DP - 36	GUARD TOWER "A"
TA-21-37	DP - 37	GUARD TOWER "B"
TA-21-38	DP - 38	BARREL STORAGE
TA-21-39	DP - 39	GUARD QUARTERS (REMOVED)
TA-21-40	DP - 40	TANK SHELTER
TA-21-41	DP - 41	GUARD TOWER "C"
TA-21-42	DP - 42	PUMP HOUSE
TA-21-43	DP - 43	PUMP HOUSE
TA-21-44	DP - 44	GUARD HOUSE (STATION 115)
TA-21-45	DP - 45	SAFETY TRAINING BLDG (REMOVED) 1954
TA-21-46	DP - 46	DIESEL POWER PLANT
TA-21-47	DP - 47	TANK (FUEL OIL)
TA-21-48	DP - 48	GUARD HOUSE (STATION 125)
TA-21-49	DP - 49	STORAGE BLDG
TA-21-50	DP - 50	DRUM STORAGE (REMOVED)
TA-21-51	DP - 51	CYLINDER STORAGE
TA-21-52	DP - 52	CYLINDER STORAGE (REMOVED) 1955
TA-21-53	DP - 53	SEPTIC TANK (SANITARY)
TA-21-54	DP - 54	LABORATORY
TA-21-55	DP - 55	SEPTIC TANK (SANITARY)
TA-21-56	DP - 56	SEPTIC TANK (SANITARY)
TA-21-57	DP - 57	TANK (FUEL OIL)
TA-21-58	DP - 58	TANK (FUEL OIL)
TA-21-59	DP - 59	LABORATORY
TA-21-60	DP - 60	TANK (FUEL OIL)
TA-21-61	DP - 61	LABORATORY
TA-21-62	DP - 62	SEPTIC TANK (SANITARY)
TA-21-63	DP - 63	TRANSFORMER STATION
TA-21-64	DP - 64	TANK (FUEL OIL)
TA-21-65	DP - 65	EXP. BLDG
TA-21-66	DP - 66	CYLINDER STORAGE
TA-21-67	DP - 67	TRANSFORMER STATION
TA-21-68	DP - 68	MANHOLE (WATER)
TA-21-69	DP - 69	MANHOLE (WATER)
TA-21-70	DP - 70	MANHOLE (ACID)
TA-21-71	DP - 71	MANHOLE (STEAM)
TA-21-72	DP - 72	MANHOLE (ELECTRIC)
TA-21-73	DP - 73	MANHOLE (STEAM)
TA-21-74	DP - 74	MANHOLE (STEAM)
TA-21-75	DP - 75	MANHOLE (STEAM)

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-21-76	DP - 76	MANHOLE (DRAINAGE)
TA-21-77	DP - 77	MANHOLE (STEAM)
TA-21-78	DP - 78	MANHOLE (STEAM)
TA-21-79	DP - 79	MANHOLE (ELECTRIC)
TA-21-80	DP 80	MANHOLE (WATER PRV)
TA-21-81	DP - 81	MANHOLE (ACID)
TA-21-82	DP - 82	MANHOLE (WATER)
TA-21-83	DP - 83	MANHOLE (WATER PRV)
TA-21-84	DP - 84	MANHOLE (ACID)
TA-21-85	DP - 85	MANHOLE (WATER)
TA-21-86	DP - 86	MANHOLE (WATER PRV)
TA-21-87	DP - 87	MANHOLE (ACID)
TA-21-88	DP - 88	MANHOLE (WATER PRV)
TA-21-89	DP - 89	MANHOLE (ACID)
TA-21-90	DP - 90	MANHOLE (ELECTRIC)
TA-21-91	DP - 91	MANHOLE (ELECTRIC)
TA-21-92	DP - 92	MANHOLE (ELECTRIC)
TA-21-93	DP - 93	MANHOLE (WATER)
TA-21-94	DP - 94	MANHOLE (ELECTRIC)
TA-21-95	DP - 95	MANHOLE (ELECTRIC)
TA-21-96	DP - 96	MANHOLE (ELECTRIC)
TA-21-97	DP - 97	MANHOLE (STRAINER PIT)
TA-21-98	DP - 98	MANHOLE (ACID)
TA-21-99	DP - 99	TRANSFORMER STATION
TA-21-100	DP - 100	TRANSFORMER STATION
TA-21-101	DP - 101	TRANSFORMER STATION
TA-21-102	DP - 102	TRANSFORMER STATION
TA-21-103	DP - 103	TRANSFORMER STATION
TA-21-104	DP - 104	TRANSFORMER STATION
TA-21-105	DP - 105	TRANSFORMER STATION
TA-21-106	DP - 106	SEPTIC TANK (SANITARY)
TA-21-107	DP - 107	UNDERGROUND TANK (ACID)
TA-21-108	DP - 108	UNDERGROUND TANK (ACID)
TA-21-109	DP - 109	TRANSFORMER STATION
TA-21-110	DP - 110	HOLDING TANK (ACID)
TA-21-111	DP - 111	HOLDING TANK (ACID)
TA-21-112	DP - 112	HOLDING TANK (ACID)
TA-21-113	DP - 113	HOLDING TANK (ACID)
TA-21-114	DP - 114	EXPERIMENTAL TOWER (WAS TA-33-38)
TA-21-115	DP - 115	INSTRUMENT BLDG
TA-21-116	DP - 116	EQUIPMENT WHSE (PROPOSED)
TA-21-117	DP - 117	TOWER
TA-21-118	DP - 118	PIT (ACID)
TA-21-119	DP - 119	BUTANE TANK
TA-21-120	DP - 120	TANK (ACID)
TA-21-121	DP - 121	SUMP (ACID)
TA-21-122	DP - 122	SUMP (ACID)
TA-21-123	DP - 123	SEPTIC TANK (ACID)
TA-21-124	DP - 124	SEPTIC TANK (ABANDONED)
TA-21-125	DP - 125	SEPTIC TANK (SANITARY)
TA-21-126	DP - 126	MANHOLE (ELECTRIC)
TA-21-127	DP - 127	MANHOLE (ELECTRIC)
TA-21-128	DP - 128	MANHOLE (ELECTRIC)
TA-21-129	DP - 129	MANHOLE (WATER PRV)
TA-21-130	DP - 130	MANHOLE (WATER PRV)
TA-21-131	DP - 131	SUMP (ACID)
TA-21-132	DP - 132	SUMP (ACID)
TA-21-133	DP - 133	STORAGE BLDG (WAS TA-1-150)
TA-21-134	DP - 134	PUMP HOUSE (REMOVED)
TA-21-135	DP - 135	PUMP HOUSE (REMOVED) 1948
TA-21-136	DP - 136	RETAINING WALL
TA-21-137	DP - 137	PUMP HOUSE (NEVER BUILT)
TA-21-138	DP - 138	GUARD TOWER (REMOVED)
TA-21-139	DP - 139	GUARD TOWER (REMOVED)
TA-21-140	DP - 140	GUARD TOWER (REMOVED)
TA-21-141	DP - 141	MANHOLE (NEVER BUILT)

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-21-151	DP - 151	ADM BLDG. & SHOP
TA-21-152	DP - 152	LABORATORY
TA-21-153	DP - 153	FILTER HOUSE
TA-21-154	DP - 154	DOUBLE HUTMENT (REMOVED)
TA-21-155	DP - 155	WAREHOUSE
TA-21-156	DP - 156	PUMP HOUSE
TA-21-157	DP - 157	GUARD BLDG (REMOVED) 1950
TA-21-158	DP - 158	GUARD TOWER "D"
TA-21-159	DP - 159	PASSAGEWAY (BLDG 151 TO 152)
TA-21-160	DP - 160	TANK SHELTER
TA-21-161	DP - 161	TANK (WATER)
TA-21-162	DP - 162	TANK (WATER)
TA-21-163	DP - 163	SEPTIC TANK (SANITARY)
TA-21-164	DP - 164	SUMP (ACID)
TA-21-165	DP - 165	STORAGE
TA-21-166	DP - 166	EQUIPMENT ANNEX
TA-21-167	DP - 167	EQUIPMENT ANNEX
TA-21-168	DP - 168	GUARD HOUSE (STATION 127)
TA-21-169	DP - 169	MANHOLE (WATER PRV)
TA-21-170	DP - 170	MANHOLE (STEAM)
TA-21-171	DP - 171	MANHOLE (WATER VALVE BOX)
TA-21-172	DP - 172	MANHOLE (WATER PRV)
TA-21-173	DP - 173	MANHOLE (SANITARY)
TA-21-174	DP - 174	MANHOLE (WATER)
TA-21-175	DP - 175	MANHOLE (SANITARY)
TA-21-176	DP - 176	MANHOLE (ELECTRIC)
TA-21-177	DP - 177	MANHOLE (ELECTRIC)
TA-21-178	DP - 178	TRANSFORMER STATION
TA-21-179	DP - 179	TRANSFORMER STATION
TA-21-180	DP - 180	TRANSFORMER STATION
TA-21-181	DP - 181	SEPTIC TANK (SANITARY)
TA-21-182	DP - 182	DRUM STORAGE
TA-21-183	DP - 183	GUARD TOWER (REMOVED)
TA-21-184	DP - 184	SUBSTATION

UNCLASSIFIED

FIGURE 21-15

TA-21 STRUCTURE LOCATION INDEX

NO	DATE	REVISIONS	BY CHKD
8	7-19-57	REVISED TO STATUS OF 7-1-57	
7	8-9-57	ENG-R 138 REDRAWN AS ENG-R 138 AND ENG-R 140	

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

STRUCTURE LOCATION PLAN
TA-21 DP SITE

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

CHECKED J. A. Gray DESIGNER | RECOMMENDED GROUP LEADER | APPROVED ENG. DIV. SUPERV.

DRAWN N BYERS | DATE 9-23-55 | SHEET 1 OF 2 | SCALE NONE | DRAWING NO. ENG-R 139

TA-22

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 22 is used principally for developing and fabricating detonation systems. The main explosive used is pentaerythritol tetranitrate (PETN).

TA-22 lies at elevations between 7,440 and 7,520 feet asl. It is located on Two Mile Mesa which is broad and moderately sloping at TA-22 except where dissected by small branch canyons of Two Mile and Pajarito Canyons. The mesa is bounded on the north by unnamed branches of Two Mile Canyon and on the south by Pajarito Canyon. Canyon walls are steep or cliffs in this area.

TA-22 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone. The major soil series at TA-22 is Carjo Loam. The Carjo loam is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr).

At TA-22, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,300 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer (IT, 1987).

22-001 HIGH EXPLOSIVE STORAGE

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): BUILDING/STRUCTURE
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's - 1982

UNIT INFORMATION

This unit, TA-22-24, is a concrete and soil magazine bunker which was used for the storage of HE contaminated waste.

WASTE INFORMATION

The building was used for the storage of scrap HE.

RELEASE INFORMATION

The RFA states that no past releases are known to have occurred from this unit.

DRAFT

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1983 - PRESENT

UNIT INFORMATION

A 55-gallon drum is used at TA-22-5 [22-002(a)] for short-term storage of waste solvents. A small container is used to store waste solvents in Building 91 [22-002(b)].

WASTE INFORMATION

These drummed wastes stored in TA-22-5 [22-002(a)] and TA-22-91 [22-002(b)] consist of spent solvents.

RELEASE INFORMATION

No releases of hazardous substances are known to have ocurred from these units.

DRAFT

22-003 SATELLITE HE STORAGE AREA

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1983 - PRESENT

UNIT INFORMATION

The number 3 cubicle of Bunker TA-22-96 is used for waste HE storage. The bunker is constructed of concrete and aluminum. The material is removed at regular intervals burned at TA-16 or detonated at TA-36 or TA-39.

WASTE INFORMATION

This unit is used for short-term storage of HE waste.

RELEASE INFORMATION

There have been no known releases from this storage area. The bunker is inspected regularly by LANL staff.

DRAFT

22-004 SUMP AND DRY WELL

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1985 - PRESENT

UNIT INFORMATION

This unit is associated with operations at Building 93, where HE is compacted for use in detonators. The wash water goes to a baffle/catchment basin (4' deep, 9'2" long, 3'2" wide) [22-004(a)] and then to a seepage well (4' diameter and approximately 25' deep) [22-004(b)]. According to the CEARP, the wastewater volume is approximately 100 gallons per week.

WASTE INFORMATION

The wash water from building 93 operations may contain HE.

RELEASE INFORMATION

Small quantities of decanted wash water have been absorbed by the dry well soil.

DRAFT

22-005 BUILDING 34 SUMPS

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1952 - PRESENT

UNIT INFORMATION

Building 34 housed a chemistry laboratory for many years. It was later converted to a laser laboratory. This part of the building also houses an active photographic laboratory that does not have a silver recovery unit. There is a sump for the liquid wastes. Drains from the side of the building used in explosive experimental work are connected to an explosives settling basin. Currently no HE waste is routinely discharged to the settling basin. The sump and settling basin are constructed of concrete and are approximately 4' x 2' x 3' deep.

WASTE INFORMATION

The settling basin at one time received HE waste. The other sump receives photoprocessing waste containing silver and may have received other chemicals and solvents.

RELEASE INFORMATION

The sumps have a decant outlet to a NPDES outfall (see Appendix A). Silver and other chemicals have probably been discharged through the outfall.

DRAFT

22-006 BUILDING 91 DRY WELLS

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): WELL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1985 - 1987

UNIT INFORMATION

The industrial drains from Building 91 discharged in series to two dry wells before the liquid flowed to the outfall located southeast of the building. Each dry well is stone-lined and is 25' deep, with an outside diameter of 6'. These wells are no longer used, however they remain in place and have not been filled in.

WASTE INFORMATION

The waste is described as etching solutions containing organics, hydrochloric acid, copper, ferric chloride, sodium carbonate, and sodium hydroxide.

RELEASE INFORMATION

After a past overflow to an outfall, the wells were removed from service.

DRAFT

22-007 BUILDING 25 SUMP SYSTEM

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1949 - 1960's

UNIT INFORMATION

Building TA-22-25 was used primarily for PETN recrystallization. The CEARP states that this building had a sump and an associated outfall that were used to dispose of mixtures of PETN and solvents. The concrete sump, containing an aluminum tank, is 4'6" x 3' x 3'6" deep (outside dimensions).

WASTE INFORMATION

The discharge to the sump included mixtures of PETN and solvents (acetone and ethanol).

RELEASE INFORMATION

Decant from the sump apparently went to a drainage area north of the building. Signs reading "High Explosive" were seen in the general outfall area during the 1987 CEARP field survey.

DRAFT

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1952 - 1984

UNIT INFORMATION

Building 52 housed etching and plating operations. Wastewater was sent to drains that were connected to the outfall behind Building 52. The former outfall area has left a residue of scrbed contaminants. The area which can be visually noted as having contamination extends an estimated drop of 100' to the streambed.

WASTE INFORMATION

Chemicals from plating and etching operations were the primary components of the wastewater. Chemicals reported to be used include sodium hydroxide, perchloroethylene, sodium thiosulfate, gold, hydrogen peroxide, sodium cyanide, nickel, copper, zinc, cadmium, and sulfuric, hydrochloric, fluoboric, nitric, chromic, hydrofluoric, and phosphoric acids. The CEARP also states that ferric chloride, sodium carbonate, thallium, and lead had also been used in the plating work during the 20 - 25 years of operation. The plating facility operators were instructed not to flush cyanide solutions down the site drains, however, rinse water containing up to 3.2 ppm cyanide was sent to the drains and thus to the outfall.

RELEASE INFORMATION

The CEARP reports that discolored material was observed from the outfall all the way to the stream at the bottom of the canyon. This apparently resulted from the ferric chloride in the waste stream.

DRAFT

22-009 BUILDING 1 HE SUMP SYSTEM

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1945 - ?

UNIT INFORMATION

Building 1, Room 108, had a drain which apparently emptied onto the ground about 100' from the building. A sump, approximately 4'6" x 3' x 3'6" deep is associated with Building 1. This sump was noted by the CEARP to have been filled with concrete.

WASTE INFORMATION

Building 1 handled explosives such as PETN, RDX, TETRYL, PBX, and small amounts of acetone and ethanol.

RELEASE INFORMATION

The sump had an outfall to the south, and what is believed to be the discharge area is currently marked with signs warning of HE.

DRAFT

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: EARLY 1950's-PRESENT

UNIT INFORMATION

Several septic tanks, some inactive, are present at TA-22.

STRUCTURE NO.	SWMU NO.	COMPLETED	STATUS	CAPACITY	CONSTRUCTION	OVERFLOW
TA-22-42	22-010(a)	1945	abandoned 1952		6'X 9'X 5' reinforced concrete	leach field
TA-22-50	22-010(b)	1952	active	1,365 gal.		leach field
TA-22-51	22-010(c)	1952	active	8,775 gal.		subsurface sand filter

After 1973 industrial flows were separated from sewage flows, and the surfacing of sewage was discontinued.

WASTE INFORMATION

Contaminants, if present, are most likely HE such as PETN, RDX, TETRL, AND PBX. It is unknown whether TA-22-42 contains radionuclide or HE contaminants. Septic tank TA-22-50 received sanitary waste from Building 34. Septic tank TA-22-51 received waste from Buildings 1,4,5, and 32 and may be contaminated with HE.

RELEASE INFORMATION

In 1972, tank TA-22-50 was indicated to be free of contamination from HE. It is unknown whether hazardous waste has been discharged.

22-011 DISPOSAL PIT

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1946

UNIT INFORMATION

In 1946, a pit reportedly had been prepared for the disposal of classified objects and shapes at TA-22. The pit was to remain open until June 1. No specific location was given. The 1986 CEARP field survey was unable to locate the pit. LANL staff indicate that the pit may not be in TA-22. There may have been a typographical error in the 1946 memo that described the pit.

WASTE INFORMATION

The waste was most likely the remains of classified devices. The pit may also contain radioactive waste.

RELEASE INFORMATION

It is unknown whether there have been releases from the burial pit.

DRAFT

22-012 WASH PAD

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): OTHER: WASH PAD
UNIT USE: DECONTAMINATION
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1961 - ?

UNIT INFORMATION

This unit is a reinforced concrete pad 8' x 8' x 10" thick used for decontaminating equipment. The pad is designated TA-22-77.

WASTE INFORMATION

The waste probably consisted of HE residues.

RELEASE INFORMATION

It is unknown whether there have been releases of hazardous constituents from this unit.

DRAFT

22-013 LIQUID WASTE TREATMENT / STORAGE

SUMMARY

LOCATION: TA-22
TYPE OF UNIT(s): ABOVEGROUND TANK
UNIT USE: TREATMENT/STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1987 - PRESENT

UNIT INFORMATION

In TA-22-91, there are two 1000 gallon tanks that are used to neutralize and precipitate contaminants from liquid waste solutions generated from the etching processes. The sludge that contains most of the copper originally in the waste solutions is stored for pick-up by HSE-7. The treated liquid is discharged through a NPDES outfall (see Appendix A).

WASTE INFORMATION

The etching wastes undergoing treatment contain organics, hydrochloric acid, copper, ferric chloride, sodium carbonate and sodium hydroxide.

RELEASE INFORMATION

It is unknown whether hazardous waste has been discharged through the outfall.

DRAFT

TA-22 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
22-001	22-1
22-002(a)	22-1
22-002(b)	22-1
22-003(a)	22-1
22-003(b)	22-1
22-004	22-1
22-005	22-1
22-006	22-1
22-007	22-1
22-008	22-1
22-009	22-1
22-010(a)	22-1
22-010(b)	22-1
22-010(c)	22-1
22-011	Not shown, location unknown
22-012	22-1
22-013	22-1

DRAFT

NOTE: Some structure locations contain more than one SWMU.

301216 02 01 B166

UNCLASSIFIED

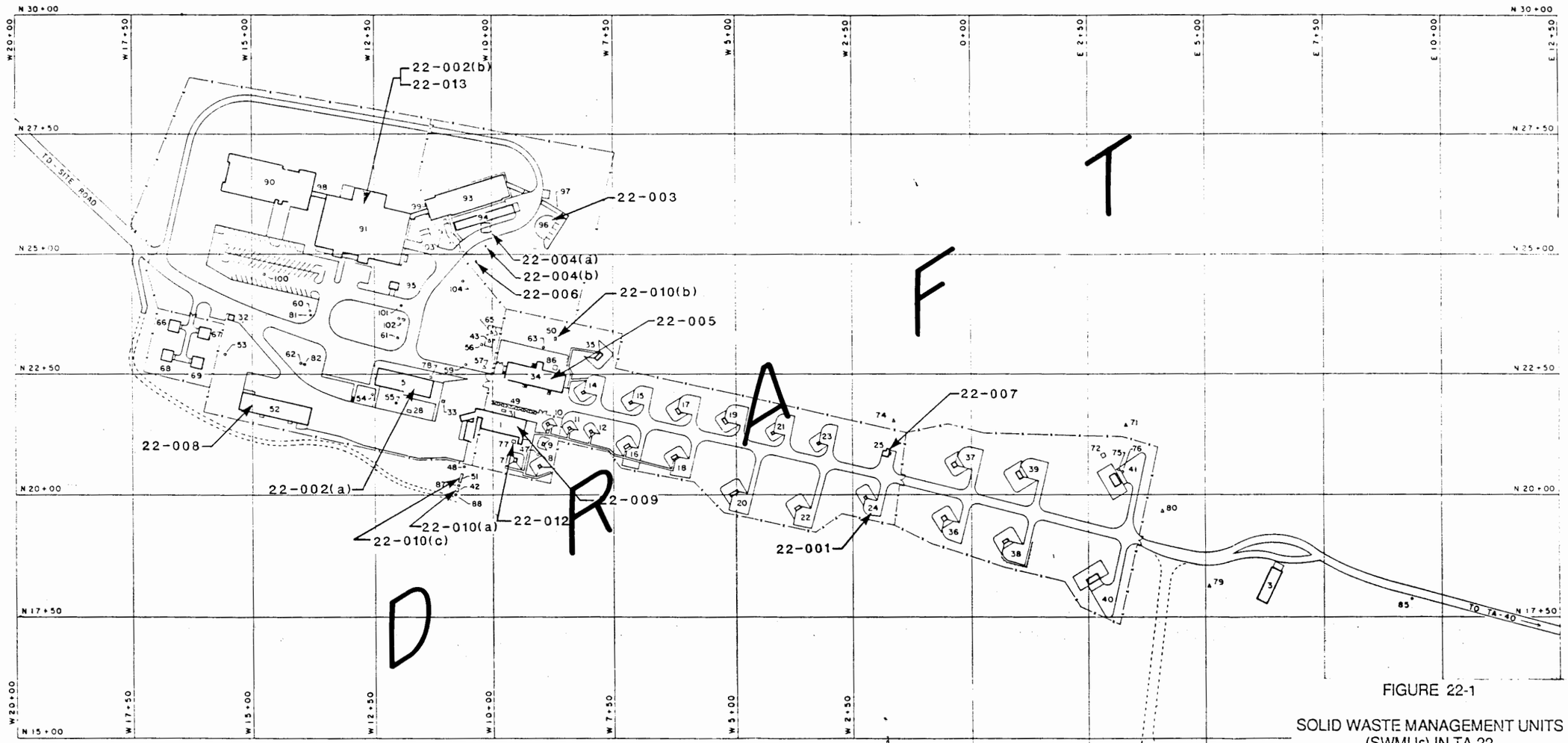

FIGURE 22-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-22

25.4mm = 30.5m
1" = 100'-0"
0 20 40 60 80 100 120
0 100' 200' 300' 400'
GRAPHIC SCALE

TRUE NORTH
GRID NORTH
MAG. DECLINATION

EXPLANATION

22-001 SWMU LOCATION

REV	DATE	REVISION	BY	CKD	APPR
16	11-1-84	REDRAWN & REVISED, TO STATUS OF 10-31-84			

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-22 TD-SITE

SEC CLASSIFICATION
CLASS
REVIEWER
DATE

SUBMITTED
DRAWN
CHECKED

RECOMMENDED
DATE 11-1-84
SHEET NO 2 OF 2

APPROVED

DRAWING NO ENG-R 5114

301215 02 01 B54

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-22-1	TD-1	LOADING BUILDING		N22+50 W10+00
TA-22-2	TD-2	STORAGE BUILDING		N15+00 E2+50
TA-22-3	TD-3	STORAGE BUILDING		N17+50 E7+50
TA-22-4	TD-4		REMOVED 1984	
TA-22-5	TD-5	WAREHOUSE & PLASTIC SHOP		N22+50 W12+50
TA-22-6	TD-6		REMOVED 1984	
TA-22-7	TD-7	PROCESS BUILDING		N20+00 W10+00
TA-22-8	TD-8	PROCESS BUILDING		N20+00 W10+00
TA-22-9	TD-9	MAGAZINE		N20+00 W10+00
TA-22-10	TD-10	MAGAZINE		N22+50 W7+50
TA-22-11	TD-11	MAGAZINE		N22+50 W7+50
TA-22-12	TD-12	MAGAZINE		N22+50 W7+50
TA-22-13	TD-13		REMOVED 1952	
TA-22-14	TD-14	MAGAZINE		N22+50 W7+50
TA-22-15	TD-15	PROCESS BUILDING		N22+50 W7+50
TA-22-16	TD-16	MAGAZINE		N20+00 W7+50
TA-22-17	TD-17	MAGAZINE		N22+50 W5+00
TA-22-18	TD-18	MAGAZINE		N20+00 W7+50
TA-22-19	TD-19	PROCESS BUILDING		N22+50 W5+00
TA-22-20	TD-20	MAGAZINE		N20+00 W5+00
TA-22-21	TD-21	MAGAZINE		N22+50 W5+00
TA-22-22	TD-22	MAGAZINE		N20+00 W2+50
TA-22-23	TD-23	MAGAZINE		N20+00 W2+50
TA-22-24	TD-24	MAGAZINE		N20+00 W2+50
TA-22-25	TD-25	PROCESS BUILDING		N20+00 W2+50
TA-22-26	TD-26		REMOVED 1960	
TA-22-27	TD-27		REMOVED 1949	
TA-22-28	TD-28	VALVE HOUSE		N22+50 W12+50
TA-22-29	TD-29		REMOVED 1984	
TA-22-30	TD-30		CANCELLED	
TA-22-31	TD-31	SPRINKLER HOUSE		N22+50 W10+00
TA-22-32	TD-32	GUARD HOUSE		N22+50 W15+00
TA-22-33	TD-33	STEAM PIT	ABANDONED 1964	N22+50 W10+00
TA-22-34	TD-34	LABORATORY BUILDING		N22+50 W10+00
TA-22-35	TD-35	MAGAZINE		N22+50 W7+50
TA-22-36	TD-36	MAGAZINE		N20+00 0+00
TA-22-37	TD-37	MAGAZINE		N20+00 0+00
TA-22-38	TD-38	MAGAZINE		N20+00 0+00
TA-22-39	TD-39	MAGAZINE		N20+00 0+00
TA-22-40	TD-40	INERT PREPARATION BLDG		N17+50 E2+50
TA-22-41	TD-41	LABORATORY BUILDING		N20+00 E2+50
TA-22-42	TD-42	TANK, SEPTIC	ABANDONED 1952	N20+00 W10+00
TA-22-43	TD-43	TRANSFORMER STATION		N22+50 W10+00
TA-22-44	TD-44	WOOD FENCE	REMOVED 1949	
TA-22-45	TD-45		REMOVED 1984	
TA-22-46	TD-46		REMOVED 1949	
TA-22-47	TD-47	MANHOLE	STEAM	N20+00 W10+00
TA-22-48	TD-48	MANHOLE	SANITARY	N20+00 W10+00
TA-22-49	TD-49	BARRICADE		N22+50 W10+00
TA-22-50	TD-50	TANK	SEPTIC	N22+50 W7+50
TA-22-51	TD-51	TANK	SEPTIC	N20+00 W10+00
TA-22-52	TD-52	SHOPS BUILDING		N22+50 W15+00
TA-22-53	TD-53	MANHOLE	SANITARY	N22+50 W15+00
TA-22-54	TD-54	MANHOLE	SANITARY	N22+50 W12+50
TA-22-55	TD-55	MANHOLE	SANITARY	N22+50 W12+50
TA-22-56	TD-56	MANHOLE	ELECTRICAL	N22+50 W10+00
TA-22-57	TD-57	TRANSFORMER STATION	ABANDONED 1984	N22+50 W10+00
TA-22-58	TD-58		REMOVED 1984	
TA-22-59	TD-59	MANHOLE	WATER	N22+50 W10+00
TA-22-60	TD-60	MANHOLE	ELECTRICAL	N25+00 W15+00
TA-22-61	TD-61	MANHOLE	ELECTRICAL	N22+50 W12+50
TA-22-62	TD-62	MANHOLE	ELECTRICAL	N22+50 W15+00
TA-22-63	TD-63	MANHOLE	SANITARY	N22+50 W10+00
TA-22-64	TD-64		REMOVED 1984	
TA-22-65	TD-65	TRANSFORMER STATION		N22+50 W10+00
TA-22-66	TD-66	STORAGE BUILDING		N22+50 W17+50
TA-22-67	TD-67	STORAGE BUILDING		N22+50 W15+00
TA-22-68	TD-68	STORAGE BUILDING		N22+50 W17+50
TA-22-69	TD-69	STORAGE BUILDING		N22+50 W15+00
TA-22-70	TD-70		REMOVED 1952	
TA-22-71	TD-71	TRANSFORMER STATION		N22+50 E2+50
TA-22-72	TD-72	EQUIPMENT BUILDING		N20+00 E2+50
TA-22-73	TD-73		REMOVED	
TA-22-74	TD-74	TRANSFORMER STATION		N22+50 W2+50
TA-22-75	TD-75	MANHOLE	H.E. SUMP	N20+00 E2+50
TA-22-76	TD-76	MANHOLE	WATER	N20+00 E2+50
TA-22-77	TD-77	CONTAM. WASH PAD		N20+00 W10+00
TA-22-78	TD-78	MANHOLE	STEAM PUMP PIT	N22+50 W12+50
TA-22-79	TD-79	TRANSFORMER STATION		N17+50 E5+00
TA-22-80	TD-80	TRANSFORMER STATION		N20+00 E5+00
TA-22-81	TD-81	MANHOLE	TELEPHONE	N22+50 W15+00
TA-22-82	TD-82	MANHOLE	TELEPHONE	N22+50 W15+00
TA-22-83	TD-83		UNASSIGNED	
TA-22-84	TD-84		REMOVED 1984	
TA-22-85	TD-85	MANHOLE	WATER	N17+50 E8+00
TA-22-86	TD-86	SHIELDED ENCLOSURE		N22+50 W10+00
TA-22-87	TD-87	MANHOLE	SANITARY	N20+00 W10+00
TA-22-88	TD-88	MANHOLE	SANITARY	N20+00 W10+00
TA-22-89	TD-89		CANCELLED	
TA-22-90	TD-90	ADMINISTRATIVE BUILDING		N27+50 W15+00
TA-22-91	TD-91	DETONATOR SUPPORT BLDG		N25+00 W12+50
TA-22-92	TD-92		UNASSIGNED	
TA-22-93	TD-93	DETONATOR EXPLOSIVES BLDG		N25+00 W10+00
TA-22-94	TD-94	BUNKER		N25+00 W10+00
TA-22-95	TD-95	SOLVENT STORAGE SHED		N25+00 W12+50
TA-22-96	TD-96	MAGAZINE		N25+00 W10+00
TA-22-97	TD-97	COVERED WALKWAY		N25+00 W10+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-22-98	TD-98	PASSAGEWAY		N27+50 W12+50
TA-22-99	TD-99	PASSAGEWAY		N25+00 W12+50
TA-22-100	TD-100	MANHOLE	SANITARY	N25+00 W15+00
TA-22-101	TD-101	MANHOLE	SANITARY	N25+00 W12+50
TA-22-102	TD-102	LIFT STATION & VALVE VAULT	SANITARY	N25+00 W12+50
TA-22-103	TD-103	MANHOLE	SANITARY	N25+00 W10+00
TA-22-104	TD-104	MANHOLE	ACID	N25+00 W10+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 22-2

TA-22 STRUCTURE LOCATION INDEX

REV.	DATE	REVISION	BY	CKD	APP
MF 16	11-1-84	REVISED TO STATUS OF 10-31-84	TMV		
MF 15	9-21-83	REVISED TITLE BLOCK AND DWG TO STATUS OF 7-28-83	VMI		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-22 TD-SITE

SEC. CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED | RECOMMENDED | APPROVED

DRAWN | CHECKED | DATE 9-21-83 | SHEET NO 1 OF 2 | DRAWING NO ENG-R 5114

UNCLASSIFIED

TA-23

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 23 is a small decommissioned area that contained a firing point, magazine, office, and laboratories. It was used principally as a firing site. It lies within TA-9, which is discussed elsewhere.

DRAFT

23-001 FIRING SITE

SUMMARY

LOCATION: TA-23
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1945

UNIT INFORMATION

Engineering records indicate the TA-23 firing area renumbered TA-9-176, was constructed of reinforced concrete, 15' x 15' x 8', with an earth barricade on 3 sides. It included an irregularly shaped reinforced concrete structure consisting of two firing pits in an concrete apron 3'6" x 12' x 12" thick. The pits were used for the testing of lens charges of up to 135 lbs. of HE. The site was used actively during the war, but was decommissioned in 1952.

WASTE INFORMATION

HE residues and metals may have dispersed at and around the site.

RELEASE INFORMATION

There is no evidence of past low-order shots that may have scattered HE or of any current residues remaining at the site. The site is now part of TA-9.

DRAFT

23-002 INDUSTRIAL WASTE MANHOLE

SUMMARY

LOCATION: TA-23
TYPE OF UNIT(s): OTHER: MANHOLE
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1945

UNIT INFORMATION

Engineering records indicate an industrial waste manhole (now with a structure designation of TA-9-178) at TA-23. Further information is lacking. Whether there were other liquid waste handling systems is not known; however, they would be expected.

WASTE INFORMATION

The waste is assumed to have been laboratory type wastes and perhaps HE residues. It is not known how sanitary wastes were handled.

RELEASE INFORMATION

Information on the manhole, its drainline, or possible releases is lacking.

DRAFT

TA-23 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
23-001	23-1
23-002	23-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

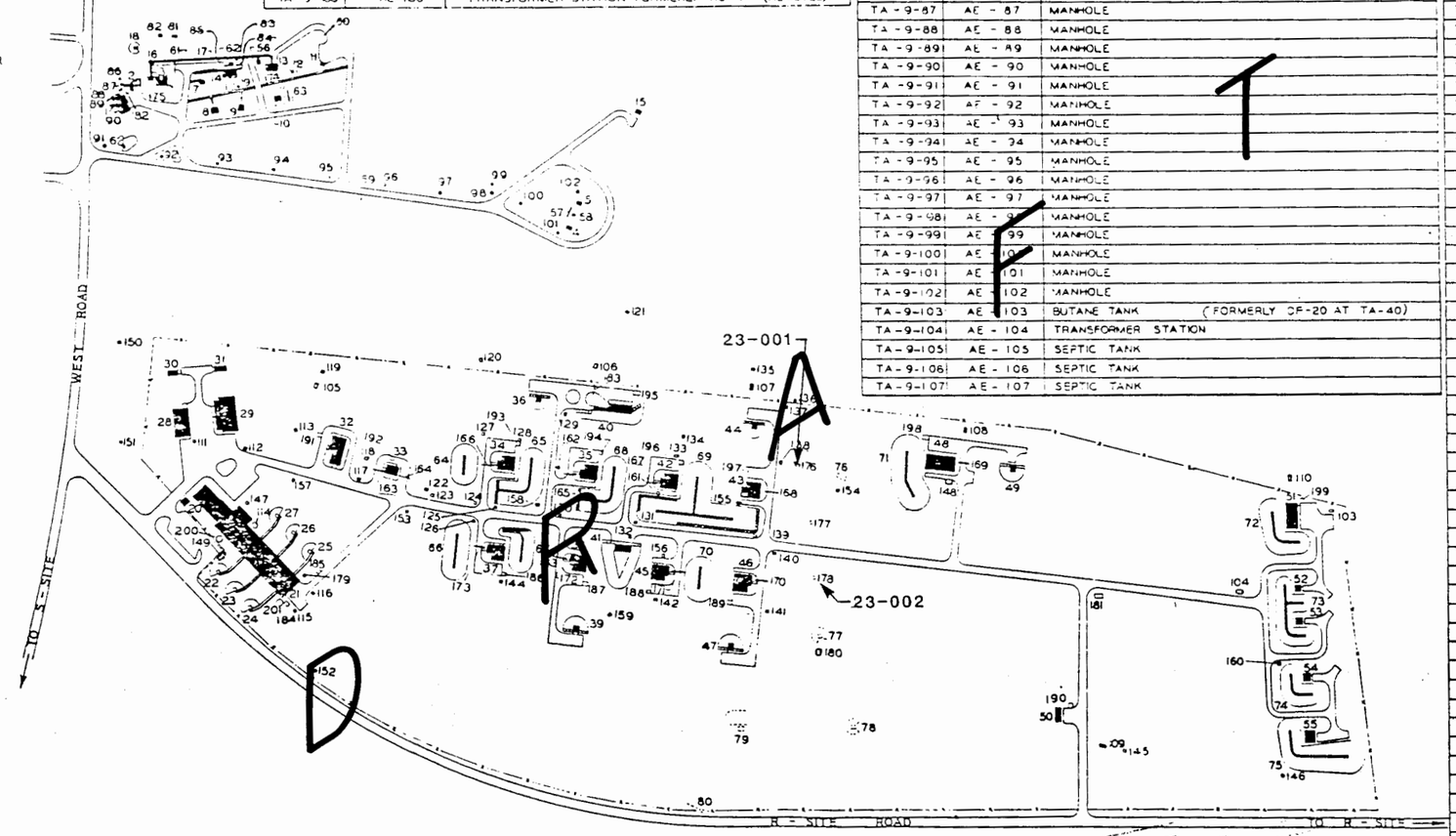
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-181	AE-181	GUARD HOUSE
TA-9-182	AE-182	FUEL TANK
TA-9-183	AE-183	ROAD BLOCK
TA-9-184	THRU TA-9-199	SETTLING TANKS
TA-9-200	AE-200	MANHOLE
TA-9-201	AE-201	MANHOLE

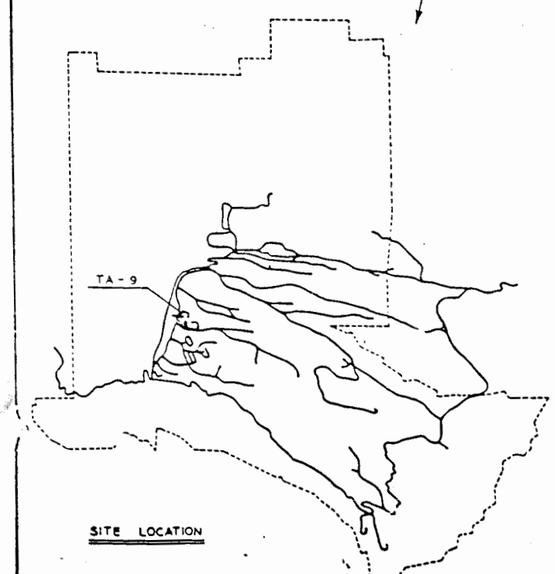
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-108	AE-108	SEPTIC TANK
TA-9-109	AE-109	SEPTIC TANK
TA-9-110	AE-110	SEPTIC TANK
TA-9-111	THRU TA-9-147	MANHOLES
TA-9-148	AE-148	PUMPING STA
TA-9-149	AE-149	TRANSFORMER STATION
TA-9-150	THRU TA-9-161	MANHOLES
TA-9-162	AE-162	WIGWAG
TA-9-163	THRU TA-9-173	ROAD BLOCKS
TA-9-174	AE-174	BARRICADE
TA-9-175	AE-175	MANHOLE
TA-9-176	AE-176	CAMERA MOUNT FORMERLY NU-8 (REMOVED)
TA-9-177	AE-177	MANHOLE FORMERLY NU-8 (REMOVED)
TA-9-178	AE-178	MANHOLE FORMERLY NU-9 (REMOVED)
TA-9-179	AE-179	MANHOLE
TA-9-180	AE-180	TRANSFORMER STATION FORMERLY NU-7 (REMOVED)

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-71	AE-71	BARRICADE
TA-9-72	AE-72	BARRICADE
TA-9-73	AE-73	BARRICADE
TA-9-74	AE-74	BARRICADE
TA-9-75	AE-75	BARRICADE
TA-9-76	AE-76	LABORATORY, FORMERLY NU-4 (REMOVED)
TA-9-77	AE-77	OFFICE BLDG., FORMERLY NU-3 (REMOVED)
TA-9-78	AE-78	MAGAZINE, FORMERLY NU-2 (REMOVED)
TA-9-79	AE-79	LABORATORY, FORMERLY NU-1 (REMOVED)
TA-9-80	AE-80	ROAD BLOCK, FORMERLY NU-5 (REMOVED)
TA-9-81	AE-81	SEPTIC TANK
TA-9-82	AE-82	MANHOLE
TA-9-83	AE-83	MANHOLE
TA-9-84	AE-84	MANHOLE
TA-9-85	AE-85	MANHOLE
TA-9-86	AE-86	MANHOLE
TA-9-87	AE-87	MANHOLE
TA-9-88	AE-88	MANHOLE
TA-9-89	AE-89	MANHOLE
TA-9-90	AE-90	MANHOLE
TA-9-91	AE-91	MANHOLE
TA-9-92	AE-92	MANHOLE
TA-9-93	AE-93	MANHOLE
TA-9-94	AE-94	MANHOLE
TA-9-95	AE-95	MANHOLE
TA-9-96	AE-96	MANHOLE
TA-9-97	AE-97	MANHOLE
TA-9-98	AE-98	MANHOLE
TA-9-99	AE-99	MANHOLE
TA-9-100	AE-100	MANHOLE
TA-9-101	AE-101	MANHOLE
TA-9-102	AE-102	MANHOLE
TA-9-103	AE-103	BUTANE TANK (FORMERLY OF-20 AT TA-40)
TA-9-104	AE-104	TRANSFORMER STATION
TA-9-105	AE-105	SEPTIC TANK
TA-9-106	AE-106	SEPTIC TANK
TA-9-107	AE-107	SEPTIC TANK

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-9-1	AE-1	LABORATORY, FORMERLY BLDG. A-2
TA-9-2	AE-2	DARKROOM - BOILER PL., FORMERLY BLDG. A-2A
TA-9-3	AE-3	MIX. & HYDR. PRESS, FORMERLY BLDG. A-3
TA-9-4	AE-4	FIRING CHAMBER, FORMERLY BLDG. A-6
TA-9-5	AE-5	FIRING CHAMBER, FORMERLY BLDG. A-7
TA-9-6	AE-6	MAGAZINE, FORMERLY BLDG. A-12
TA-9-7	AE-7	STORAGE, FORMERLY BLDG. A-13
TA-9-8	AE-8	STORAGE, FORMERLY BLDG. A-14
TA-9-9	AE-9	TRIMMING BLDG., FORMERLY BLDG. A-15
TA-9-10	AE-10	TRIMMING BLDG., FORMERLY BLDG. A-16
TA-9-11	AE-11	MAGAZINE, FORMERLY BLDG. A-17
TA-9-12	AE-12	PERSONNEL SHELTER, FORMERLY BLDG. A-18
TA-9-13	AE-13	MACHINE SHOP, FORMERLY BLDG. A-19
TA-9-14	AE-14	LABORATORY, FORMERLY BLDG. A-20
TA-9-15	AE-15	RECOVERY PIT, FORMERLY BLDG. A-23
TA-9-16	AE-16	PUMP HOUSE, FORMERLY BLDG. A-25
TA-9-17	AE-17	COVERED WALK, FORMERLY A-24
TA-9-18	AE-18	MAGAZINE, FORMERLY BLDG. A-21
TA-9-19	AE-19	OVEN, FORMERLY BLDG. A-22 (REMOVED)
TA-9-20	AE-20	GUARD HOUSE
TA-9-21	AE-21	LABORATORY & OFFICE BLDG.
TA-9-22	AE-22	MAGAZETTE
TA-9-23	AE-23	MAGAZETTE
TA-9-24	AE-24	MAGAZETTE
TA-9-25	AE-25	MAGAZETTE
TA-9-26	AE-26	MAGAZETTE
TA-9-27	AE-27	MAGAZETTE
TA-9-28	AE-28	SHOP BLDG
TA-9-29	AE-29	STOCK & EQUIPMENT BLDG.
TA-9-30	AE-30	GAS STORAGE
TA-9-31	AE-31	GAS STORAGE
TA-9-32	AE-32	PREPARATION & GRINDING BLDG.
TA-9-33	AE-33	LABORATORY BLDG.
TA-9-34	AE-34	PROCESS LABORATORY
TA-9-35	AE-35	PROCESS LABORATORY
TA-9-36	AE-36	MAGAZINE
TA-9-37	AE-37	PROCESS LABORATORY
TA-9-38	AE-38	PROCESS LABORATORY
TA-9-39	AE-39	MAGAZINE
TA-9-40	AE-40	DRY HOUSE BLDG.
TA-9-41	AE-41	COMFORT STATION BLDG.
TA-9-42	AE-42	PROCESS LABORATORY
TA-9-43	AE-43	PROCESS LABORATORY
TA-9-44	AE-44	MAGAZINE
TA-9-45	AE-45	PROCESS LABORATORY
TA-9-46	AE-46	PROCESS LABORATORY
TA-9-47	AE-47	MAGAZINE
TA-9-48	AE-48	OPERATING BLDG.
TA-9-49	AE-49	MAGAZINE
TA-9-50	AE-50	RECEIVING & SHIPPING
TA-9-51	AE-51	TEST LABORATORY
TA-9-52	AE-52	MAGAZINE
TA-9-53	AE-53	MAGAZINE
TA-9-54	AE-54	MAGAZINE
TA-9-55	AE-55	MAGAZINE
TA-9-56	AE-56	CONTROL SHACK
TA-9-57	AE-57	BARRICADE
TA-9-58	AE-58	X-UNIT CHAMBER
TA-9-59	AE-59	ROAD BLOCK (REMOVED)
TA-9-60	AE-60	ROAD BLOCK
TA-9-61	AE-61	ROAD BLOCK
TA-9-62	AE-62	BASKET WASHING FACILITIES
TA-9-63	AE-63	BARRICADE
TA-9-64	AE-64	BARRICADE
TA-9-65	AE-65	BARRICADE
TA-9-66	AE-66	BARRICADE
TA-9-67	AE-67	BARRICADE
TA-9-68	AE-68	BARRICADE
TA-9-69	AE-69	BARRICADE
TA-9-70	AE-70	BARRICADE

(SEE COLUMN AT LEFT FOR CONTINUATION)





SITE LOCATION

Classification changed to ~~GENERAL USE ONLY~~
by authority of the U. S. Atomic Energy Commission,
Per R.C.SMITH 10-4-54
(Name of authorizing change in classification) (Date)
By Ruben N. Gonzales SEP 30 1955
(Signature of person making the change, and date)

NORTH (MAGNETIC)

EXPLANATION

23-001 SWMU LOCATION

UNCLASSIFIED

FIGURE 23-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-23

~~CONFIDENTIAL~~

REV.	GENERAL REVISION TO STATUS OF JULY 1, 1952	GENERAL REVISION TO STATUS OF JULY 1, 1951	GENERAL REVISION TO STATUS OF JAN. 1, 1951
4	JTH 8-22-54	F.D.B. 7-15-51	J.A.R. 2-13-51

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PR., COMM., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

STRUCTURE LOCATION PLAN
TA-9 ANCHOR SITE EAST

SCALE | DRAWN BY

375

TA-24

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 24 is no longer operational. It was used for x-ray examination of high-explosive charges. A large storage magazine and laboratories were part of the facility. It now lies within TA-16, which is discussed elsewhere.

DRAFT

24-001 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-24
TYPE OF UNIT(s): SEPTIC SYSTEM/SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1940's - ?

UNIT INFORMATION

The septic tank (TA-24-15, now TA-16-504) was in use beginning in 1948, and has been described as a concrete-reinforced tank measuring 4' x 5' x 3' deep. It is not known how long it operated. Engineering records indicate that it was removed in 1963 although a field check has not verified this. A sump (TA-24-18, now TA-16-507) was in use beginning in 1944. Engineering records note it was removed in 1960 although a field check has not verified this. It was a reinforced concrete pit measuring 8'6" x 4'6" x 5' deep.

WASTE INFORMATION

Little data is available on types of liquid wastes discharged to these units. TA-16-507 is described as a "chemical sump pit". It was noted in 1959 as being contaminated with HE whereas another lab memo reports that it received various chemicals.

RELEASE INFORMATION

There is no information available to determine whether releases have occurred from these units though they must have had some type of discharge.

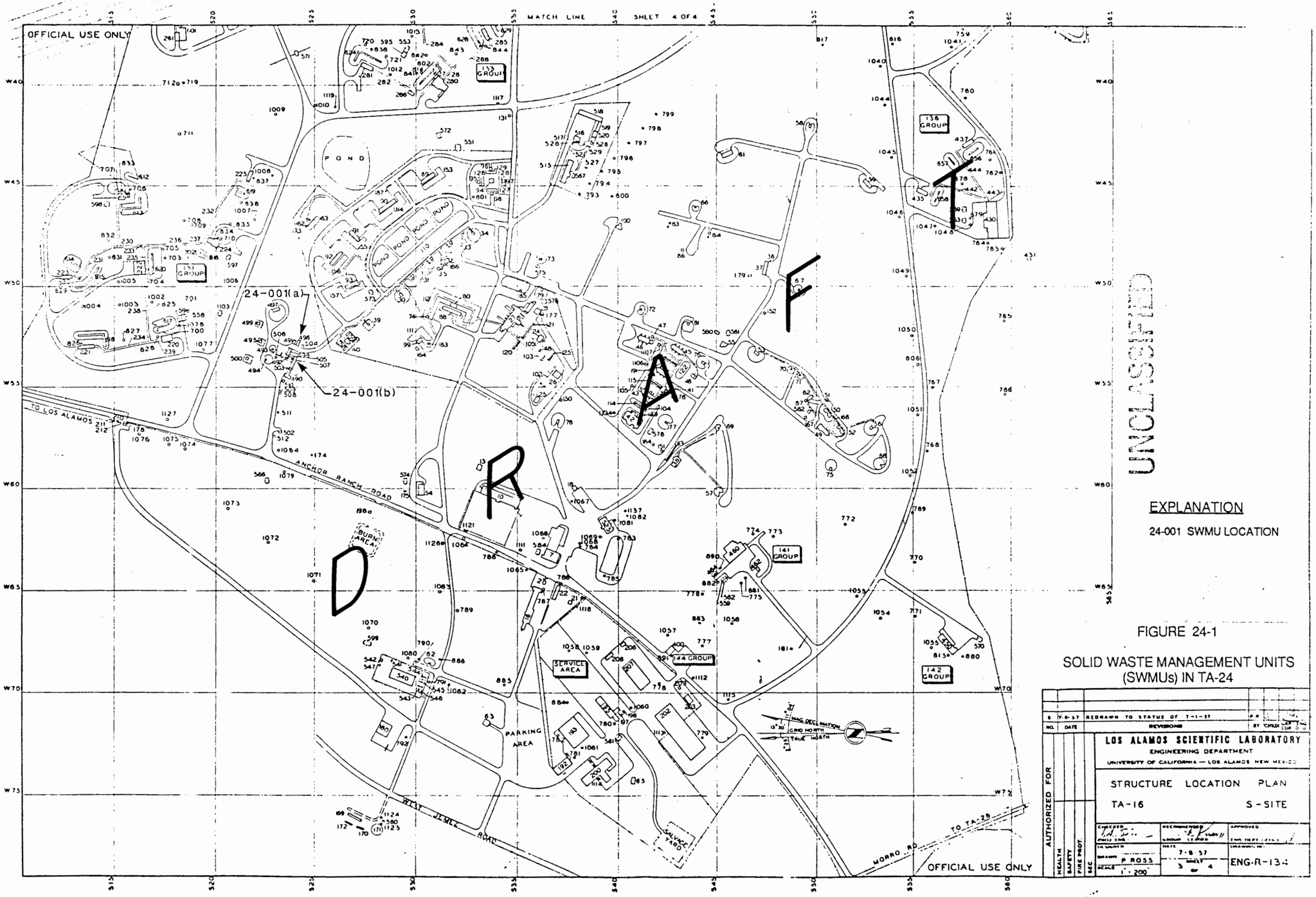
DRAFT

TA-24 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
24-001(a)	24-1
24-001(b)	24-1

NOTE: Some structure locations may contain more than one SWMU.

301215 02 01 139



UNCLASSIFIED

EXPLANATION

24-001 SWMU LOCATION

FIGURE 24-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-24

NO.	DATE	REVISIONS	BY
8	7-8-57	REDRAWN TO STATUS OF 7-1-57	P.R.

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC

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

STRUCTURE LOCATION PLAN
TA-16 S-SITE

CHECKED: PHYS ENG. | RECOMMENDED: GROUP LEADER | APPROVED: ENG. DEPT. HEAD

DRAWN: P. ROSS | DATE: 7-8-57 | DRAWING NO.: ENG-R-134

SCALE: 1" = 200' | SHEET 3 OF 4

TA-25

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 25 is now part of TA-16, which is discussed elsewhere. In the 1940's, it was used for experimental work in connection with special assemblies.

DRAFT

SUMMARY

LOCATION: TA-25
TYPE OF UNIT(s): PIT
UNIT USE: UNKNOWN
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1944 - 1945

UNIT INFORMATION

Pit TA-25-9 was associated with HE work at TA-25, it was removed in 1945. No details on the size or capacity of the unit are available.

WASTE INFORMATION

The pit was used to contain HE and beryllium. Details on the removal of these materials is lacking, as is any documentation about the possibility that any residual contamination remains.

RELEASE INFORMATION

It is not known whether hazardous releases from this unit have occurred.

DRAFT

25-002 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-25
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1940's - PRESENT

UNIT INFORMATION

The septic tank, TA-25-12, now TA-16-527 [25-002(a)] was installed in 1944, has a volume of 1500 gallons, is of reinforced concrete and measures 10' x 6' x 4'6" deep. The overflow from the tank goes to a manhole. A pump pit, TA-25-11, now TA-16-526 [25-002(b)] was installed in 1945 and is also of reinforced concrete and measures 6' x 6' x 6'6" deep. The status of the pump pi is not known.

WASTE INFORMATION

The septic tank may possibly have handled liquids containing HE residues. There is no information on the pump pit.

RELEASE INFORMATION

No information is available on releases from these units. Pan AM reports that the tank, while potentially overflowing to a manhole, is not active on a full-time basis.

DRAFT

TA-25 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
25-001	Not shown, location unknown
25-002(a)	25-1, 25-2
25-002(b)	25-1, 25-2

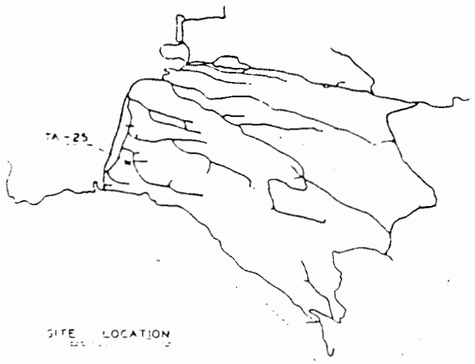
NOTE: Some structure locations may contain more than one SWMU.

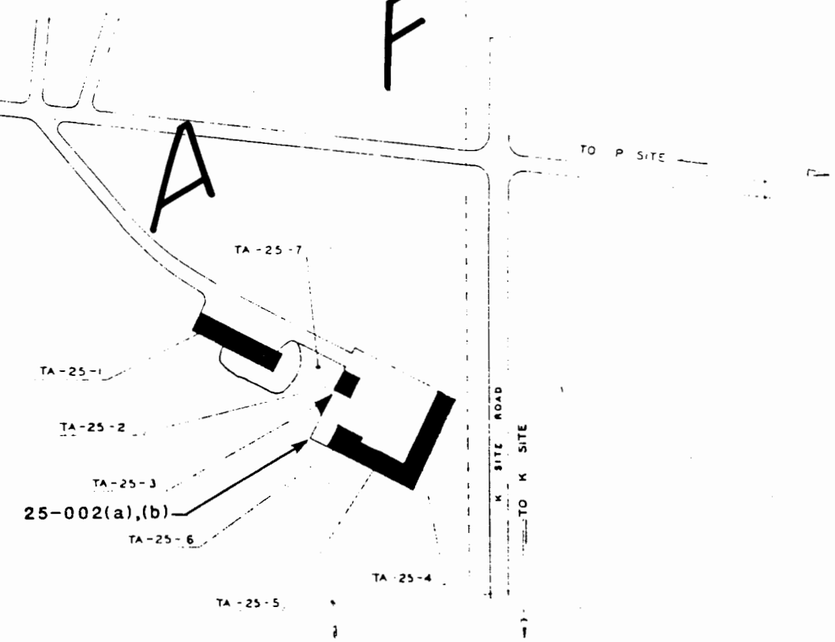
DRAFT

301215 02 8124

OFFICIAL USE ONLY

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-25-1	V-1	LABORATORY & OFFICE BUILDING
TA-25-2	V-2	LABORATORY BUILDING WAS [illegible]
TA-25-3	V-3	EQUIPMENT BUILDING WAS [illegible]
TA-25-4	V-4	WAREHOUSE WAS [illegible]
TA-25-5	V-5	MUSEUM WAS [illegible]
TA-25-6	V-6	MUSEUM WAS [illegible]
TA-25-7	V-7	TANK STAND WAS [illegible]





DRAFT

EXPLANATION

25-001 SWMU LOCATION

FIGURE 25-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-25

OFFICIAL USE ONLY

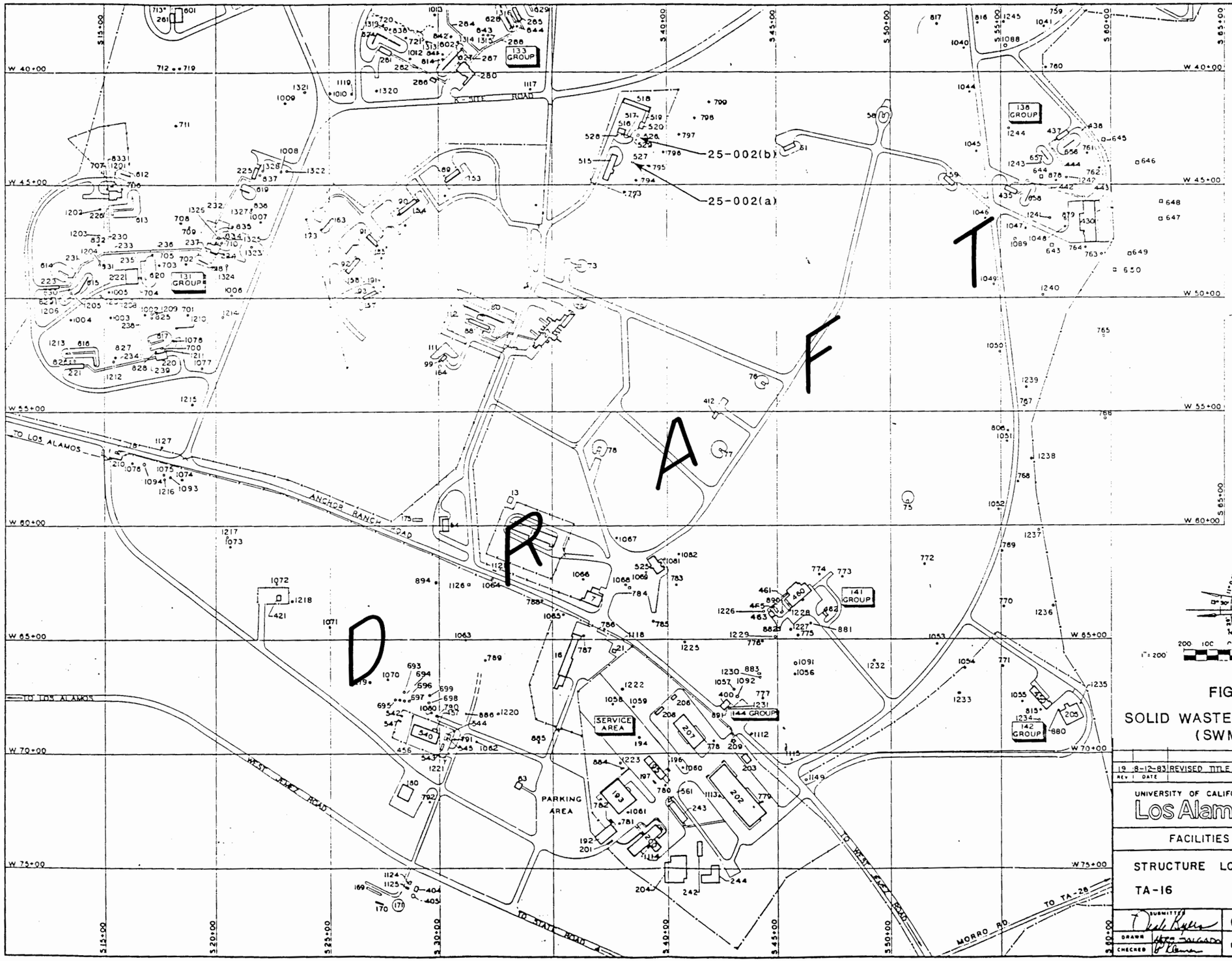
NORTH (MAGNETIC)

UNCLASSIFIED

AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING CONSTRUCTION & MAINTENANCE
HEALTH SAFETY FIRE PR. CONSTR. SEC.	STRUCTURE LOCATION PLAN TA-25 V-SERIES
	SCALE DRAWN BY DATE

1-0106279

301215 02 01 B176



EXPLANATION

25-001 SWMU LOCATION

NOTES

25-002 FORMERLY PART OF TA-25

UNCLASSIFIED

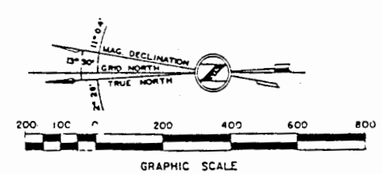


FIGURE 25-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-25

REV	DATE	REVISION	BY	CKD	APP
19	8-12-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-10-83 HS			

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-16 S-SITE

SEC CLASSIFICATION: CLASS U

REVIEWER

DATE 8-9-83

SUBMITTED

RECOMMENDED

APPROVED

DRAWN

CHECKED

DATE 8-12-83

SHEET NO. 6 OF 7

DRAWING NO ENG-R5111

TA-26

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 26 consisted of a storage vault for nuclear materials, a sentry station, and guard towers. The buildings were removed or demolished by the 1960's.

It was located near the boundary of the Laboratory on East Road on the narrow mesa top between Los Alamos Canyon on the south and Pueblo Canyon on the north, at about 6,800 to 6,900 feet elevation. The area lies in the Pinon-Juniper overstory vegetation zone.

Soils have not been surveyed in this area, but may be Hackroy sandy loam. The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy series has a moderate water erosion hazard (0.65 to 1.8 cm soil/yr from an unprotected surface) and medium runoff (0.14 to 0.51 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

DRAFT

26-001 CANYONSIDE DISPOSAL AREA

SUMMARY

LOCATION: TA-26
TYPE OF UNIT(s): CANYONSIDE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1965

UNIT INFORMATION

A concrete building measuring 26'9" x 41'6" x 10'6" tall containing a vault was broken up and the concrete pieces disposed of over the edge of the mesa into Los Alamos Canyon south of TA-26. Most of the rubble fell on a ledge halfway down. Soil was then placed over the rubble. The disposal area measures about 30' x 10', is several feet deep.

WASTE INFORMATION

The debris included radionuclide-contaminated concrete. Counts on the intact concrete before breakup were thought to have been less than 1,000 dis/min gross alpha. The activity possibly originated from uranium-233 and -235.

RELEASE INFORMATION

Most of the rubble now rests on a ledge on the side of Los Alamos Canyon. No recent surveys have been undertaken to determine possible waste movement. Radioactive monitoring was conducted on the mesa top in 1985. No above-background readings were obtained.

DRAFT

SUMMARY

LOCATION: TA-26
TYPE OF UNIT(s): SUMP SYSTEM
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1946 - 1950's

UNIT INFORMATION

The sump (TA-26-6) was connected via a drain line to the vault floor drains. Engineering records note the sump as having a 4' ID. and a depth of 10'. A drain line from the sump ran to the edge of the canyon. The sump and associated drain lines were decommissioned in the mid-1960's.

WASTE INFORMATION

Uranium and tritium potentially were present in the liquids discharged to the sump.

RELEASE INFORMATION

During decommissioning, the sump and drain lines are believed to have been taken to MDA-C, although engineering records indicate that they were disposed of over the edge of the canyon. In terms of discharges during the sump's active life, although utility drawings show the overflow discharging to the canyon edge, there is no record of this actually occurring and if so, what the liquids may have contained.

DRAFT

26-003 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-26
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1948 - 1950's

UNIT INFORMATION

This septic tank, TA-26-5, served Building TA-26-1 (vault). The tank was constructed of steel and had a capacity of 250 gallons. In 1966, the tank was removed and disposed of in the canyon just south of the site, according to engineering records.

WASTE INFORMATION

The septic tank most likely handled sanitary waste. However, because radioactive contamination was found in the building (uranium and possibly tritium), these contaminants may potentially have entered the tank.

RELEASE INFORMATION

The tank overflow discharged through a line to the canyon edge. No information is available to document the existence of any radioactive releases.

DRAFT

TA-26 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
26-001	26-1
26-002	26-1, 26-2
26-003	26-2

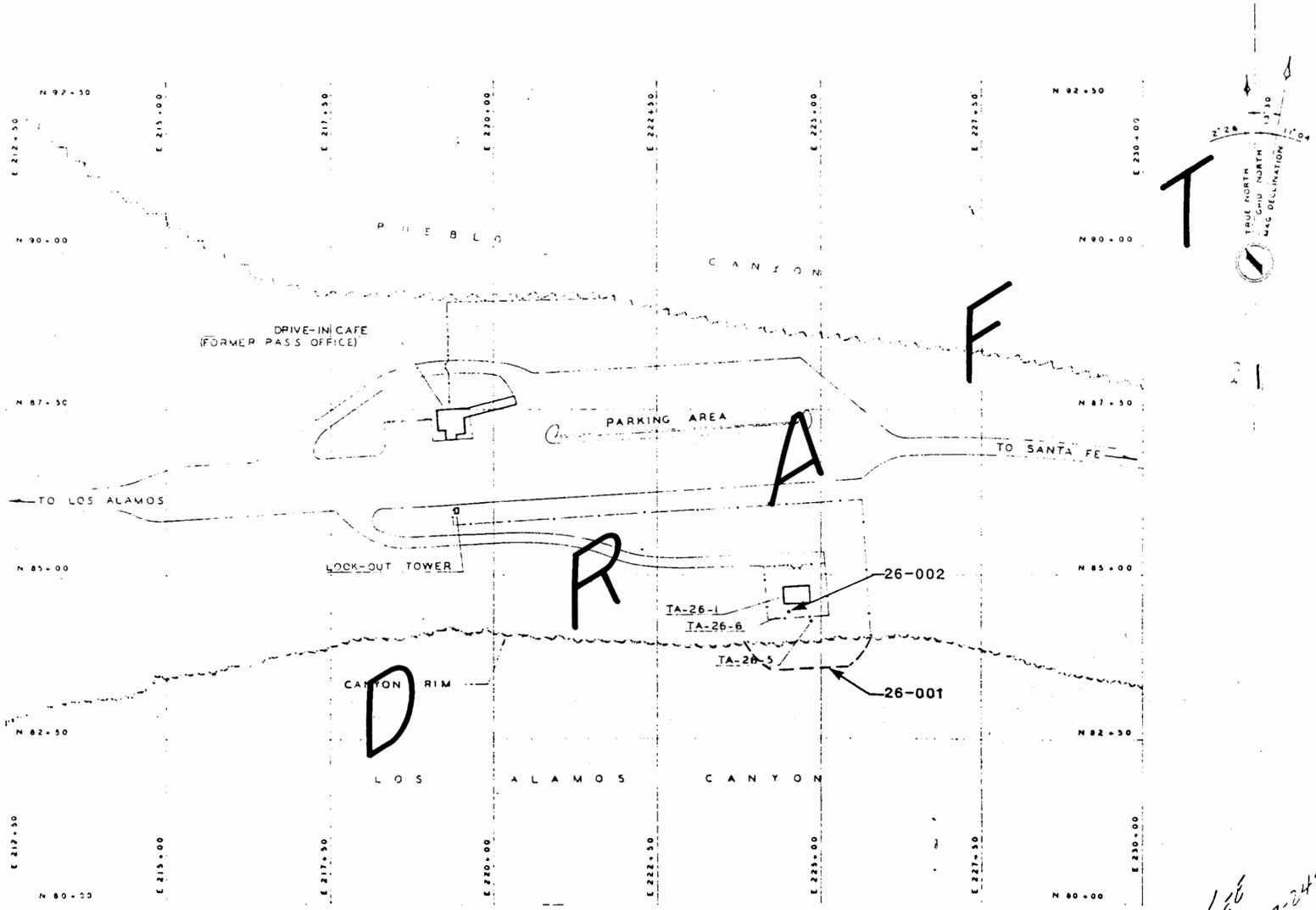
NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 138

OFFICIAL USE ONLY

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-26-1	D-1	VAULT
TA-26-2	D-2	GUARD TOWER A (REMOVED)
TA-26-3	D-3	GUARD TOWER B (REMOVED)
TA-26-4	D-4	GUARD BUILDING (REMOVED)
TA-26-5	D-5	SEPTIC TANK (SANITARY)
TA-26-6	D-6	SETTLING SUMP (ACID)



UNCLASSIFIED

EXPLANATION

26-001 SWMU LOCATION

FIGURE 26-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-26

Obsolete DEAD STORAGE

NO.	DATE	REVISIONS	BY	CHKD
9	9-4-59	REVISED TO STATUS OF 9-11-59	RLW	
8	7-20-57	REVISED TO STATUS OF 7-1-57		
7	10/1/55	REDRAWN TO STATUS OF JULY 1, 1955		

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

AUTHORIZED FOR

STRUCTURE LOCATION PLAN
TA-26 D-SITE

CHECKED DESIGNER | RECOMMENDED GROUP LEADER | APPROVED ENG. DIV. CHIEF

DRAWN N. BYERS | DATE 10/31/55 | DRAWING NO.

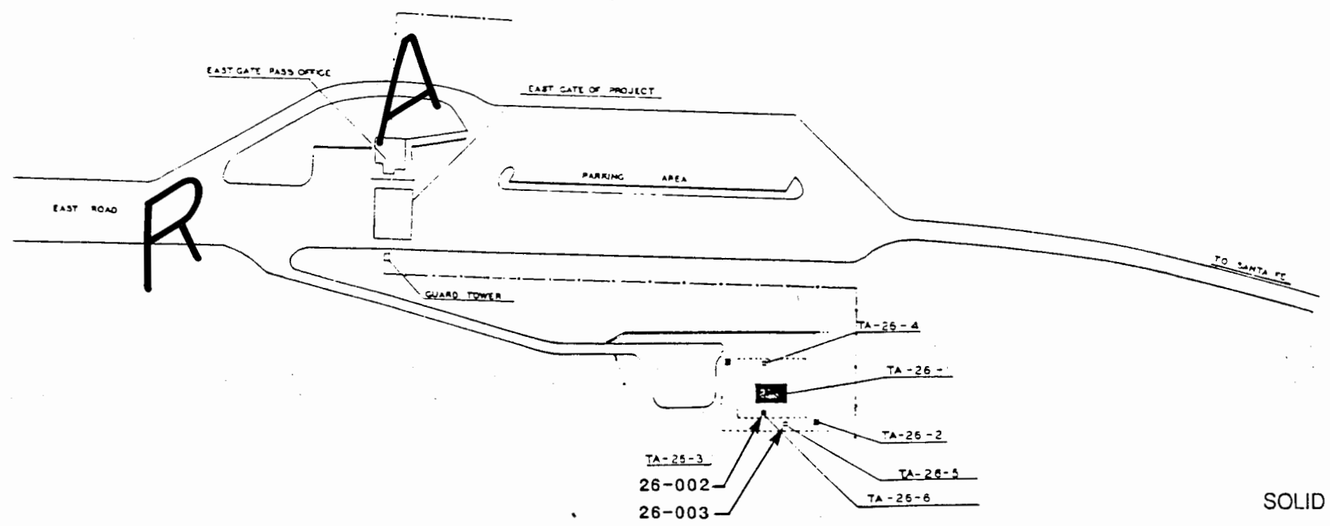
Void - See Rev. 10, Eng. Z-2455

MICROFILMED FROM BEST AVAILABLE MATERIAL

3012150201137

OFFICIAL USE ONLY

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA - 26 - 1	D -	VAULT
TA - 26 - 2	D - 2	GUARD TOWER, A
TA - 26 - 3	D - 3	GUARD TOWER B
TA - 26 - 4	D - 4	GUARD BUILDING, REMOVED
TA - 26 - 5	D - 5	SEPTIC TANK
TA - 26 - 6	D - 6	SETTLING SUMP



EXPLANATION

26-001 SWMU LOCATION

FIGURE 26-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-26

OFFICIAL USE ONLY

NORTH (MAGNETIC)

122

GENERAL REVISION TO STATUS OF JULY 1, 1951 N.O.B. 7-11-51	AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING—CONSTRUCTION & MAINTENANCE GROUP
REQUIRED NO REV. TO STATUS OF JAN 1, 1951 7-18-51	HEALTH SAFETY FIRE PR. COMM. SEC.	STRUCTURE LOCATION PLAN TA-26 D-SITE
	SCALE	DRAWN BY: GRB & CAR DATE: 7-31-50 DWG. NO.

UNCLASSIFIED

TA-27

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 27 has been decommissioned. It included firing sites at which large shots could be tested. These shots contained uranium or thorium and beryllium. One test firing went low order and scattered high explosives. Sweeps to recover the explosive have taken place. The Army also used the area as a mortar impact area.

TA-27 was located in Pajarito Canyon southeast of TA-18 and south of TA-54 at elevations between 6,650 and 6,700 feet asl. The present Pajarito Road covers some of the old area and obscures the former topography of the area. The adjacent canyon walls are steep in this area.

The canyon floor consists of alluvial silt, sand, and gravel, and the underlying bedrock is welded and non-welded Bandelier Tuff. Drillholes near the former location of TA-27 encountered 8 to 11 feet of alluvium in the center of the channel, thinning toward the canyon walls. The major soil series in the canyon is Totavi gravelly loamy sand. These are well-drained, deep (150 cm or more) soils typically formed on alluvium in canyon bottoms. Permeability is very rapid (>50 cm/h), runoff is very slow (0.0 to 0.13 cm, measured as soil loss from unprotected soil during a two-year, 30-minute precipitation event), and the erosion hazard is low (0 to 0.64 cm soil/yr). The area is in the Pinon-Juniper overstory vegetation zone.

Near the former site of TA-27, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,800 feet asl. There are over 800 feet of unsaturated tuff and volcanic rock between the surface and the ground-water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

The stream flow in Pajarito Canyon is ephemeral in the area of TA-27, flowing only in response to storm runoff and snow melt. Perched ground water occurs in the alluvium of Pajarito Canyon in the area of TA-27, but it is not connected hydraulically with the main aquifer. The saturated thickness of the alluvium in Pajarito Canyon varies, but averages 10.01 feet in a monitoring

well located near the site of TA-27. Seasonal fluctuations are noted in the saturated thickness of the alluvium, with the highest water levels occurring in the summer. The range in flow rate of this perched ground water is 8 to 23 feet per day (IT, 1987).

The quality of the perched ground water in Pajarito Canyon is generally good and meets most drinking water standards. Some parameters rarely exceed numeric limits for drinking water, such as manganese, total uranium and total dissolved solids. No routinely analyzed volatile organic compounds have been detected in the water.

TA-27 was located within the Pajarito Canyon channel and, therefore, the area may be subject to flooding. However, the Final Environmental Impact Statement (DOE, 1979) shows that flooding of TA-18, near the site of TA-27, is unlikely. Ponding of runoff has been noted in the area of TA-27.

DRAFT

27-001 GAMMA SITE TRENCH

SUMMARY

LOCATION: TA-27
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1945

UNIT INFORMATION

Around 1945, a trench is believed to have been dug near the base of the south-facing cliff at TA-27, downcanyon from TA-18. It was used to dispose of experimental pieces. The physical condition of the land makes establishing the exact location of the unit difficult. Results from a recent geophysical survey have not been obtained.

WASTE INFORMATION

The buried items are believed to have been guns and gun barrels, and possibly gun assemblies which may have been contaminated with radionuclides. It is possible that, in addition, live ammunition may have been placed in the trench.

RELEASE INFORMATION

No information is available to document the existence of radioactive or hazardous waste releases from this unit.

DRAFT

SUMMARY

LOCATION: TA-27
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/ DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1944 - 1947

UNIT INFORMATION

These were five firing pits located in an area that was about a mile downcanyon from what is now TA-18. The sizes of experimental shots conducted in the pits ranged, to a maximum of 2 tons of HE.

WASTE INFORMATION

The shots included HE, uranium, thorium, and beryllium. Lead is a suspected constituent.

RELEASE INFORMATION

In one experiment, a shot went low order scattering HE into the surrounding area. The large size of shots would have widely dispersed material. HE pieces were gathered during surface sweeps conducted in the 1960's and 1970's. Surveys conducted in 1985 indicated backround levels for uranium in soil at Firing Sites 1, 4 and 5; however, uranium levels at Firing Sites 2 and 3 were two to ten times greater than background.

DRAFT

27-003 IMPACT ZONE

SUMMARY

LOCATION: TA-27
TYPE OF UNIT(s): FIRING RANGE
UNIT USE: TESTING/ DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1944 - 1946

UNIT INFORMATION

This site, located on the south side of Pajarito Road, was used by the military to fire large guns.

WASTE INFORMATION

Not all the shells fired detonated. Waste has consisted of unexploded munitions and pieces of HE, as well as pieces of shell casings.

RELEASE INFORMATION

A civilian found an unexploded shell which caused a fatal accident. A continuing program to periodically sweep all munition impact areas was then implemented to retrieve residuals. Any residuals potentially remaining would be located subsurface.

DRAFT

TA-27 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

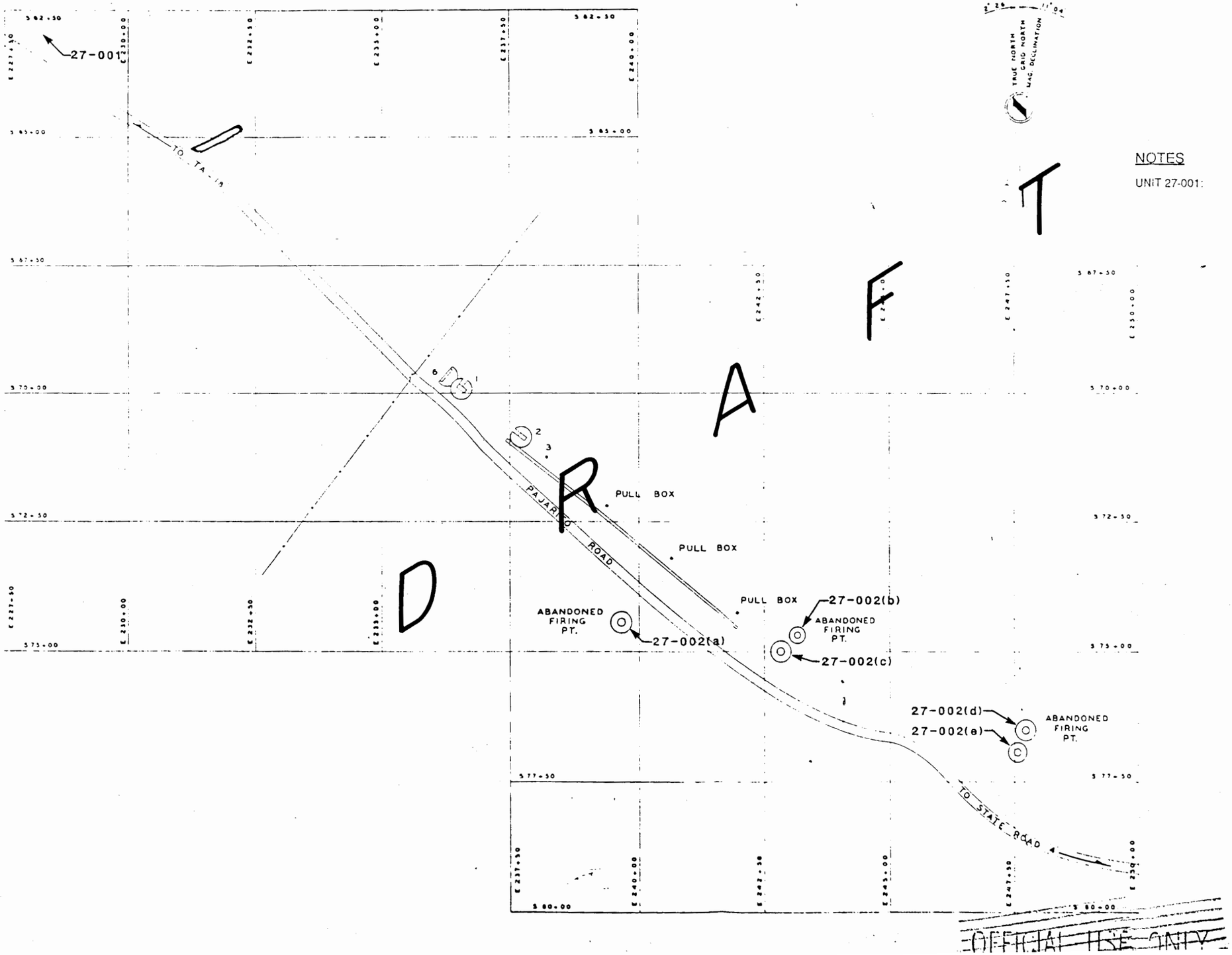
SWMU	FIGURE NUMBER
27-001	27-1
27-002(a)	27-1
27-002(b)	27-1
27-002(c)	27-1
27-002(d)	27-1
27-002(e)	27-1
27-003	27-2

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

OFFICIAL USE ONLY

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-27-1	GAMMA-1	CONTROL BLDG.
TA-27-2	GAMMA-2	CONTROL BLDG.
TA-27-3	GAMMA-3	INSTRUMENT CHAMBER (MANHOLE
TA-27-4	GAMMA-4	GUARD HOUSE (RELOCATED TO TA-18-[illegible])
TA-27-5	GAMMA-5	TRANSFORMER STATION (REMOVED)
TA-27-6	GAMMA-6	BARRICADE



UNCLASSIFIED

NOTES

UNIT 27-001: UNIT IS A DISPOSAL TRENCH; EXACT LOCATION IS UNKNOWN.

EXPLANATION

27-001 SWMU LOCATION

FIGURE 27-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-27

NO.	DATE	REVISIONS	BY	CHKD
7	11/29/95	REDRAWN TO STATUS OF JULY 1, 1955		

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

STRUCTURE LOCATION PLAN
TA-27 GAMMA SITE

CHECKED — DESIGNER; RECOMMENDED — GROUP LEADER; APPROVED — ENG. DEPARTMENT
DRAWN N. BYERS — DATE 11/29/55 — DRAWING NO.

AUTHORIZED FOR

OFFICIAL USE ONLY

301215 02 01 142

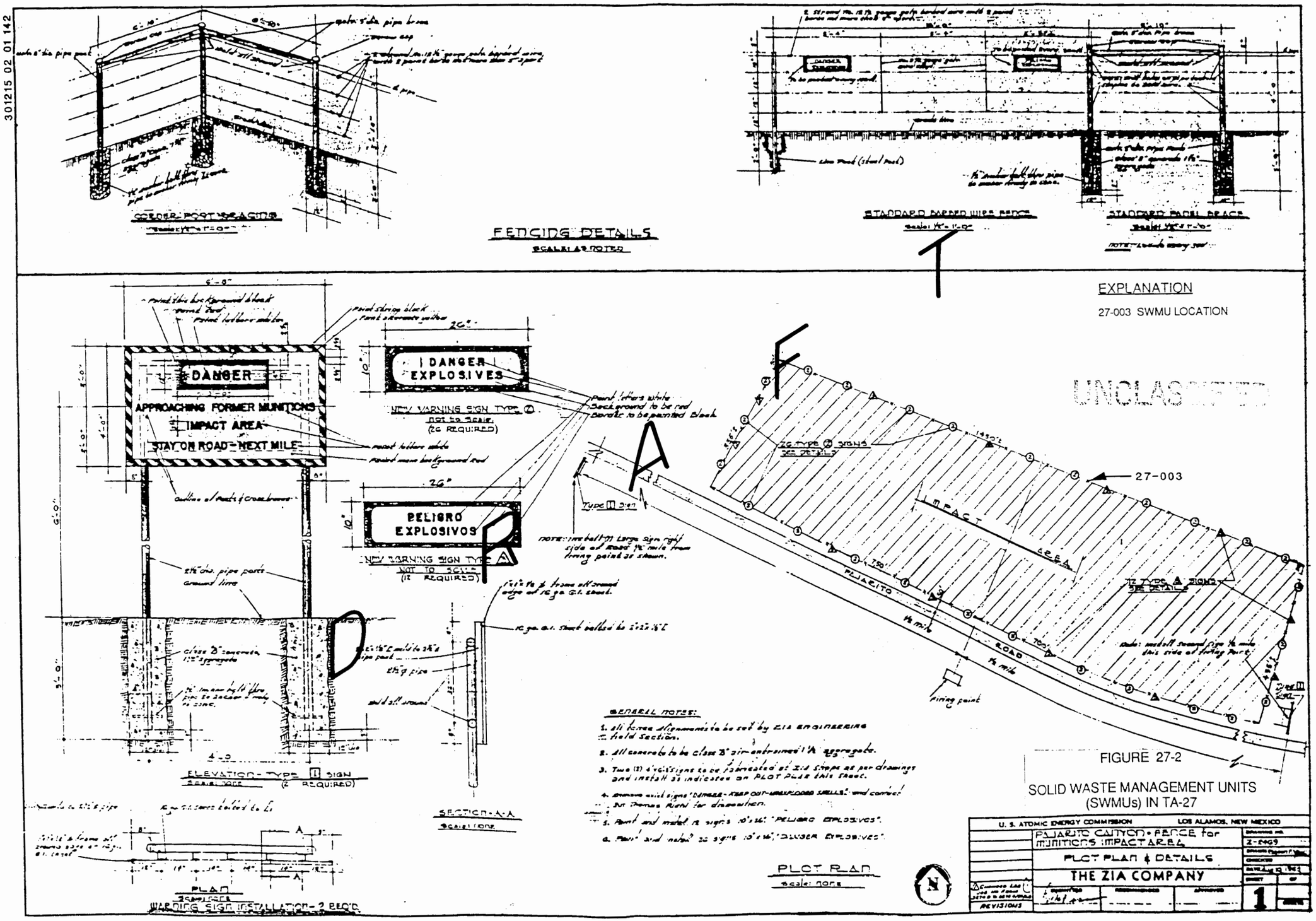


FIGURE 27-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-27

WORK ORDER S-308-008 LAB JOB 3274 LASL DWG NO ENG-C34559

TA-28

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 28 consists of five magazines used to store high explosives. The containers are not opened at TA-28 except for periodic inspections. TA-28 does not have any solid waste management units.

TA-28 lies at elevations between 7,545 and 7,590 feet asl. It is located on a narrow mesa formed between Water Canyon on the south and a small unnamed branch of Water Canyon on the north. TA-28 lies on welded Bandelier Tuff. The soil series present at TA-28 is the Tocal very fine sandy loam series, which are shallow to very shallow (20 to 50 cm), well-drained soils that form on tuff on gentle to moderate slopes. The permeability is moderately slow (0.5 to 1.6 cm/h), and the available water-holding capacity is low. Runoff is medium (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute precipitation event on bare soil), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr, the potential soil loss from an unprotected surface). The area is in the Ponderosa Pine overstory vegetation zone.

At TA-28, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,300 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

TA-29

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 29 was demolished in the 1950's. It consisted of a small magazine area, a water tower, and latrine. It was used for storage of high explosives. There are no solid waste management units at this technical area.

TA-29 was located at an elevation of about 7,560 feet asl. It is located on a mesa formed between Water Canyon on the north and a northwestern branch of Frijoles Canyon on the south. Canyon walls are steep or cliffs in this area. TA-29 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone.

The principal soil series at TA-29 is Carjo loam. The Carjo loam is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.25 to 1.8 cm soil/yr).

At TA-29, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,300 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

TA-30

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 30 is no longer operational. It was an electronics test area that was decommissioned in 1948.

DRAFT

30-001 SURFACE DISPOSAL

SUMMARY

LOCATION: TA-30
TYPE OF UNIT(s): SURFACE DISPOSAL/LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: UNKNOWN

UNIT INFORMATION

TA-30 was used for electronics testing and has been inactive since 1948. No known waste management units were associated with laboratory operations at this site. However, a small amount of surface debris remains at TA-30, and there is speculation regarding the possible existence of a landfill uphill from the site.

WASTE INFORMATION

The wastes in the surface disposal appear to building debris. The contents, if any, of the landfill are unknown.

RELEASE INFORMATION

There have been no known releases of hazardous constituents.

DRAFT

TA-30 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
30-001	30-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

CONFIDENTIAL

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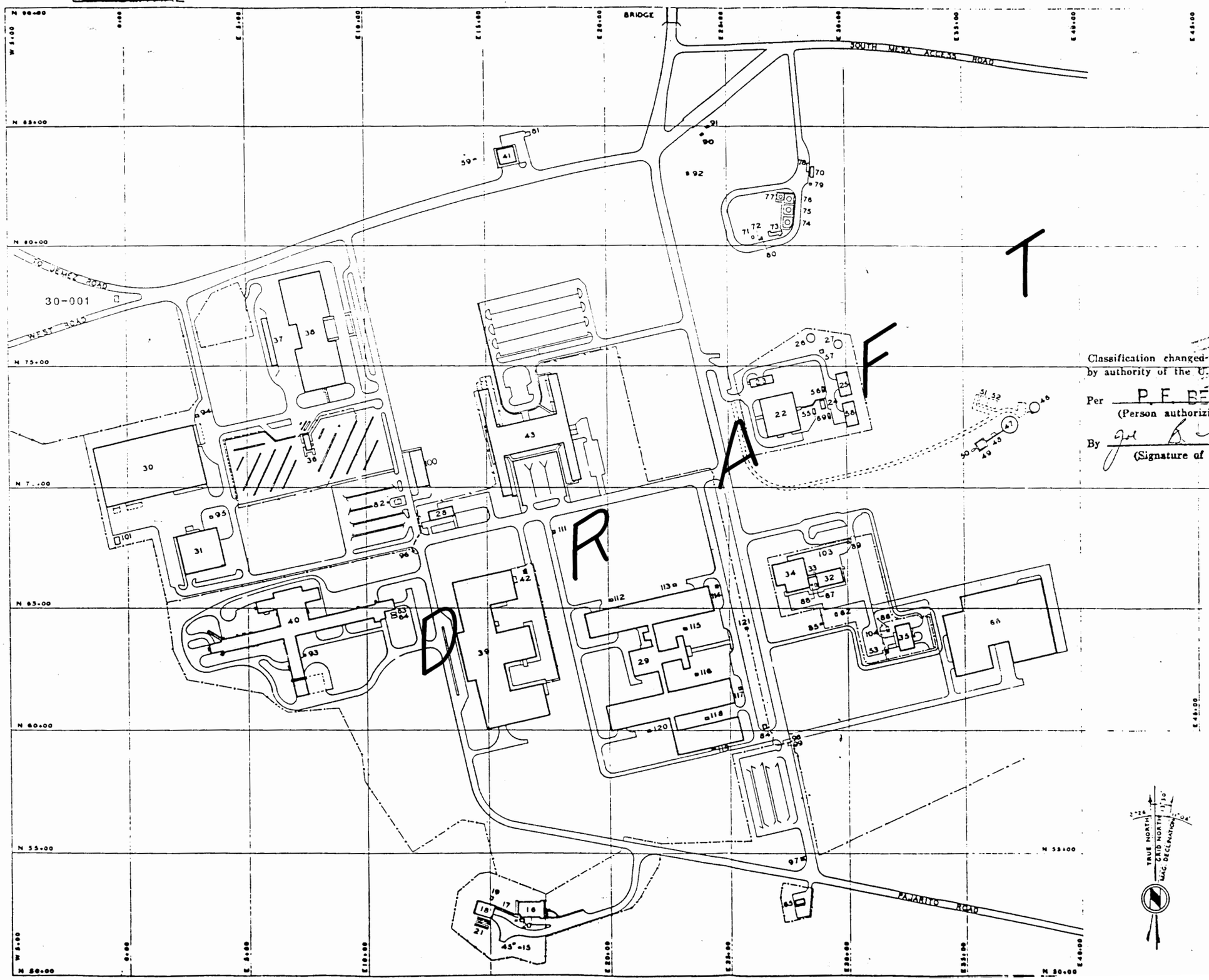

UNCLASSIFIED

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Classification changed to
by authority of the U. S. Atomic Energy Commission,

Per P. F. BELCHER MAY 31 1957
(Person authorizing change in classification) (Date)

By J. B. Montoya JUN 13 1957
(Signature of person making the change, and date)

~~This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U. S. C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.~~

EXPLANATION

30-001 SWMU LOCATION

FIGURE 30-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-30

NO.	DATE	REVISIONS	BY	CHKD	APP.
7	7-15-58	REDRAWN DRAWING NO. ENG-A 65 CHANGED TO ENG-R 65 AND ENG-R 66	NOB	JAS	DEA

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

STRUCTURE LOCATION PLAN
TA-3 SOUTH MESA SITE

AUTHORIZED FOR

CHECKED J. A. Siler DESIGNER
RECOMMENDED S. E. Kruse GROUP LEADER
APPROVED THIS DATE OFFICE
DRAWN DATE DRAWING NO.

TA-31

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 31, known as the East Receiving Yard, was mainly a receiving area and warehousing operation, including drum storage. The buildings were removed in 1954. Presently it is outside the current laboratory boundary and is built over with private housing of the "Eastern Area."

TA-31 was located at about 7,200 feet asl elevation near the west end of the Los Alamos Airport. The mesa on which it was located is bounded on the north by Pueblo Canyon and on the south by a branch of Los Alamos Canyon. Canyon walls are steep or cliffs in this area. TA-31 was located on welded Bandelier Tuff. The area is in the Ponderosa Pine and Pinon-Juniper overstory vegetation zones. Soils have not been surveyed in this area.

At the location of TA-31, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,950 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

31-001 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-31
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/ DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1949 - 1954

UNIT INFORMATION

This septic tank, TA-31-7, is constructed of reinforced concrete and has been estimated to measure approximately 4' x 3' x several feet deep. It was abandoned in 1955 and removed in 1988. At the time of removal soil samples were collected. The analytical results for the samples are pending. It most likely drained to a leach field which discharged to Pueblo Canyon.

WASTE INFORMATION

The tank received sanitary wastes.

RELEASE INFORMATION

There are no known releases of radioactive or hazardous constituents associated with this unit.

DRAFT

TA-31 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
31-001	31-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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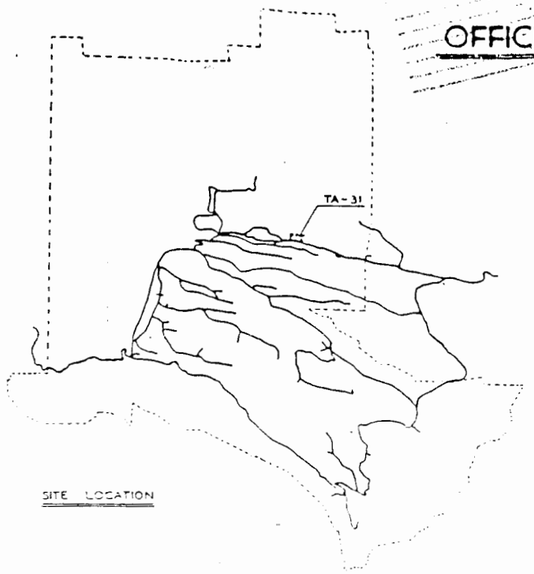

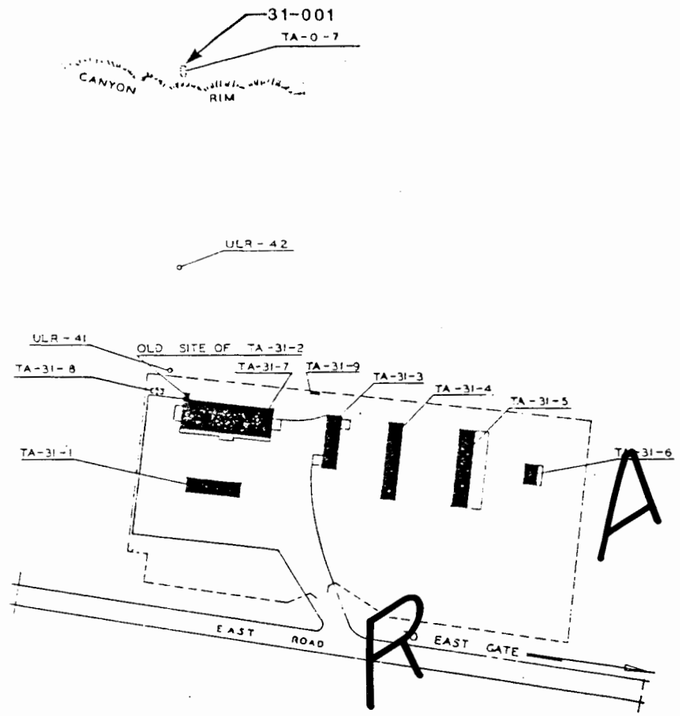

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-31-1	N-8	RECEIVING DOCK
TA-31-2	N-9	WAREHOUSE REMOVED 3-4-49
TA-31-3	N-10	WAREHOUSE
TA-31-4	N-11	WAREHOUSE
TA-31-5	N-12	WAREHOUSE
TA-31-6	N-14	OFFICE & WAREHOUSE
TA-31-7	N-20	WAREHOUSE
TA-31-8	N-21	TRANSFORMER STATION
TA-31-9	N-22	DRUM STORAGE

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-0-7	ULR-7	SEPTIC TANK
TA-0-41	ULR-41	MANHOLE
TA-0-42	ULR-42	MANHOLE

DRAFT

UNCLASSIFIED

EXPLANATION

31-001 SWMU LOCATION

FIGURE 31-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-31

OFFICIAL USE ONLY

NORTH

(MAGNETIC)

375

REV.	
5	GENERAL REVISION TO STATUS OF JULY (1953)
4	GENERAL REVISION TO STATUS OF JULY (1952) ASG. 7-2-52
3	REQUIRED NO REV TO STATUS OF JAN. (1952) J.A.S. 1-2-52
2	GENERAL REVISION TO STATUS OF JULY (1951) N.O.B. 7-17-51
1	GENERAL REVISION TO STATUS OF JAN. (1951) 1-30-51

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PR., COMM., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY
ENGINEERING DEPARTMENT

STRUCTURE LOCATION PLAN
TA-31 EAST RECEIVING YARD

SCALE | DRAWN BY: G.R.S. | DATE: 3-31-50 | DWG. NO.

TA-32

OPERATIONS AND ENVIRONMENTAL SETTING

The buildings at Technical Area (TA) 32 are no longer in existence. It was the former medical research facility, and was located on the south site of Trinity Drive where the Los Alamos County Department of Roads is now located. Work at the site included biological research involving radionuclides.

TA-32 was located at about 7,300 feet asl. It was located on East Mesa, which is bounded by Pueblo Canyon on the north and by Los Alamos Canyon on the south. Canyon walls are steep or cliffs in this area. TA-32 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine and Pinon-Juniper overstory vegetation zones. The soil series at TA-32 is Pogna fine sandy loam, a well-drained soil typical of gently to steeply sloping mesa tops. The water-holding capacity of the soil is low, and the permeability is moderately rapid (5.0 to 16 cm/h). Runoff potential is moderate, so that soil loss from a bare soil during a two-year, 30-minute precipitation event, is 0.14 to 0.51 cm. The soil is typically 25 to 50 cm thick. It is not desirable for septic systems, sewage lagoons, sanitary landfills, or for water management structures.

At TA-32, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 6,000 and 6,100 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground-water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

32-001 INCINERATOR

SUMMARY

LOCATION: TA-32
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1948 - ?

UNIT INFORMATION

The incinerator, TA-32-9, was constructed of brick and measured 2'6" x 2'6" x 10' tall. It was decommissioned in 1954.

WASTE INFORMATION

The incinerator received combustible wastes from the medical research laboratory. Wastes most likely included animal bedding and residues. Additional wastes may have included radionuclides of short-lived activity.

RELEASE INFORMATION

Data on any off-gas clean up systems and other releases have not been obtained. The fate of the ash residues is unknown.

DRAFT

32-002 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-32
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/ DISPOSAL
OPERATIONAL STATUS: INACTIVE/DECOMMISSIONED
PERIOD OF USE: EST. 1948 - 1950

UNIT INFORMATION

There were two septic tanks in TA-32. Septic tank TA-32-7 [32-002(a)] was of wood frame construction, measuring 4' x 8' x 4' deep. Septic tank TA-32-8 [32-002(b)] was constructed of reinforced concrete and measured 9' x 5' x 6' deep. The tanks probably overflowed through drains to Los Alamos Canyon. Septic tank TA-32-8 was removed in 1988 and taken to MDA-L. The drain inlet, piping, and drainfield may remain in place. Tank TA-32-7 is assumed to remain in place.

WASTE INFORMATION

The tanks handled sanitary waste from the medical research laboratory. Because an industrial waste system was not associated with the laboratory, the sanitary lines most likely also served lab sinks and drains from the animal handling facilities. Thus, the waste is suspected to have contained short-lived radionuclides and hazardous chemicals. Recent sampling indicated the presence of acetone and miscellaneous solvents in TA-32-8.

RELEASE INFORMATION

The tanks appear to have had overflow drains to the canyon.

DRAFT

TA-32 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
32-001	32-1
32-002(a)	32-1
32-002(b)	32-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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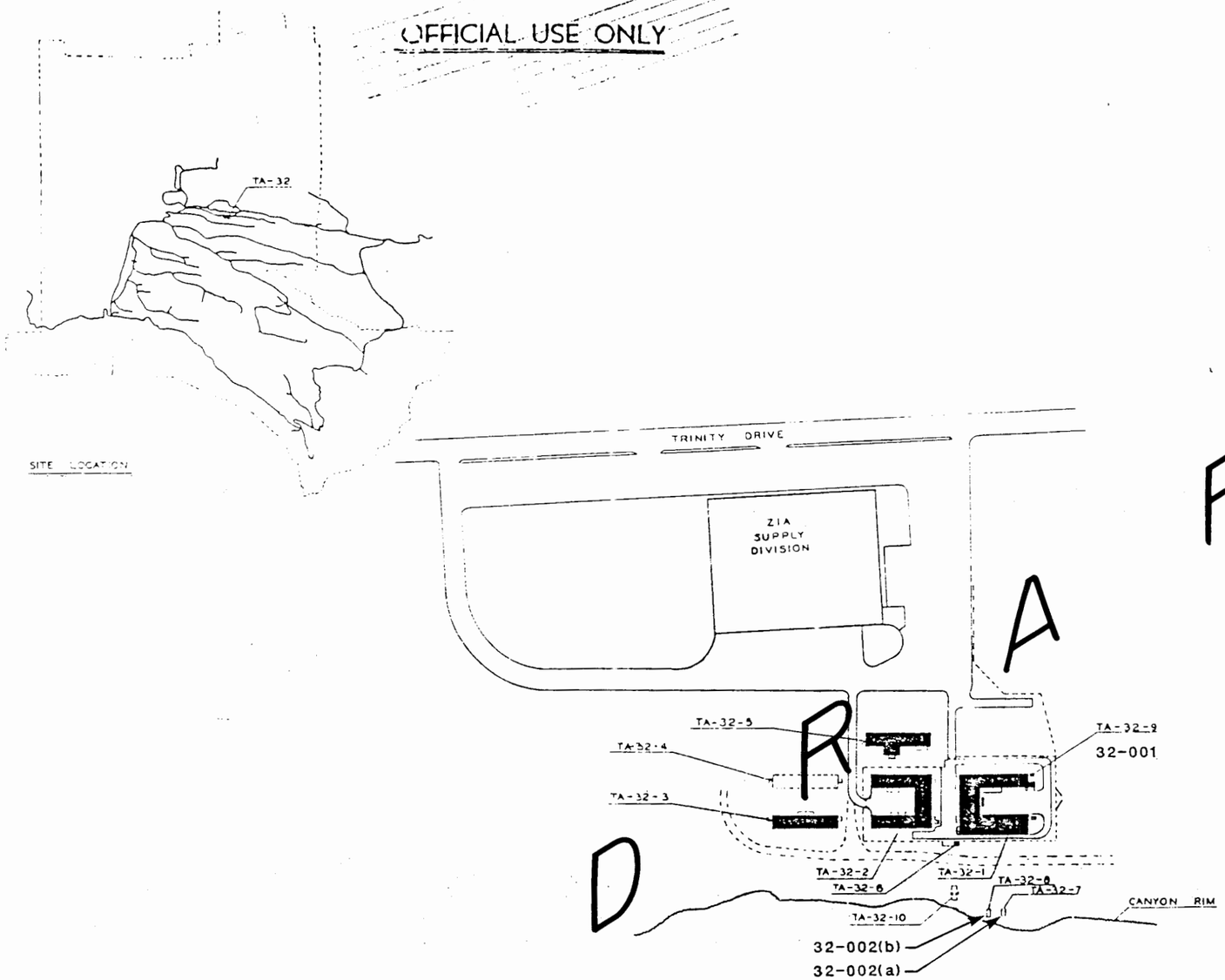
STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-32-1	MRL-1	LABORATORY BUILDING
TA-32-2	MRL-2	LABORATORY BUILDING
TA-32-3	MRL-3	OFFICE BUILDING
TA-32-4	MRL-4	WAREHOUSE BUILDING ASSIGNED TO HOOP
TA-32-5	MRL-5	LABORATORY, WAS 89 NINTH ST.
TA-32-6	MRL-6	VALVE HOUSE (REMOVED)
TA-32-7	MRL-7	SEPTIC TANK (ABANDONED)
TA-32-8	MRL-8	SEPTIC TANK
TA-32-9	MRL-9	INCINERATOR
TA-32-10	MRL-10	TRANSFORMER STATION



DRAFT

UNCLASSIFIED

EXPLANATION

32-001 SWMU LOCATION

FIGURE 32-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-32

OFFICIAL USE ONLY

NORTH (MAGNETIC)

GENERAL REVISION TO STATUS OF JAN 1, 1951 A.O.B. 7-12-51	AUTHORIZED FOR	LOS ALAMOS SCIENTIFIC LABORATORY DEPARTMENT OF ENGINEERING—CONSTRUCTION & MAINTENANCE GROUP
GENERAL REVISION TO STATUS OF JAN 1, 1951	HEALTH SAFETY FIRE PR. COMM. SEC.	STRUCTURE LOCATION PLAN TA-32 MED. RESEARCH LAB.

TA-33

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 33 includes gun firing areas, a tower area, offices, and laboratories. The gun/tower activities are discontinued. The area principally is used by earth scientists for 1) the Hot Dry Rock Project, and 2) other research. The area consists of several operational units joined by roads.

TA-33 lies at elevations between 6,400 and 6,550 feet asl. It is located at the southern end of the laboratory property on a mesa top bounded on the north by Ancho Canyon and on the south by Chaquehui Canyon. Canyon walls are steep in this area. Most of TA-33 lies on welded Bandelier Tuff. The area is in the Pinon-Juniper overstory vegetation zone. In addition to rock outcrop, the surficial material at TA-33 belongs to the Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy-Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr, from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

At TA-33, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,500 and 5,700 feet asl. There are over 800 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer (IT, 1987).

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): PIT/SHAFT
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1949 - 1956

UNIT INFORMATION

MDA-E lies on a point formed by Chaquehui Canyon and one of its tributaries. It has been used for storage and burial of low-level radioactively contaminated equipment and shot debris. Engineering drawings show six pits located in MDA-E. The pits are believed to be about 6 to 7 ft. deep. Pits 1-4 [33-001(a), (b), (c), and (d)] contain materials contaminated with polonium (decayed out), beryllium, and uranium. An underground unit, Chamber 3, TA-33-29 [33-001(e)], collapsed during an experiment in 1956 and contains the residuals of the experiment, possibly including beryllium. In 1963, apparently, some or all of the pits open at that time were filled and compacted to minimize erosion and the ponding of water. There may be additional pits outside of the fenced area.

WASTE INFORMATION

The waste consists primarily of low-level radioactive (uranium) contaminated equipment, and test and shot debris possibly containing beryllium. The contents of two of the six pits are unknown, and these pits may not have been used. Documentation exists that Pit 3 contains a can of beryllium dust immersed in kerosene.

RELEASE INFORMATION

Soil samples in 1952 and 1954 showed polonium (now decayed out) and uranium. A recent radiation survey showed no contamination. It is not known whether releases of hazardous constituents have occurred.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

MDA-K is composed of a septic tank, two sumps, and associated leach field that serve Building TA-33-86. The septic tank, TA-33-93 [33-002(a)], was installed in 1954. The sumps were probably used for treatment of tritium and solvent-contaminated solutions between 1955 and 1959. One of them, an acid sewer sump, TA-33-134 [33-002(b)], was built in 1955 and is 4' in diameter and 8' deep, and has a 3" concrete cover overlain by soil. The other sump, TA-33-133 [33-002(c)], was also built in 1955 and is 6' in diameter, 8' deep, and has a 3" concrete cover overlain by 1" of soil. It is located a few feet west of sump TA-33-134. Drainage lines connect a large sink once used in the maintenance and repair of an old-style tritium transfer pump to the sumps. The active portion of MDA-K covers approximately 0.01 acre.

WASTE INFORMATION

Septic tank TA-33-93 has received uranium-233, -235 and -238. In 1961, it received two emergency releases of plutonium-contaminated liquid. The septic system is presently used for disposal of tritium-contaminated liquids, whereas the sumps receive small quantities of solvents (trichloroethene, methanol, ethanol, acetone, propanol).

RELEASE INFORMATION

The septic system discharges to adjacent soils via a leach field. It is unknown whether releases have occurred beyond the system boundaries.

DRAFT

33-003 MATERIAL DISPOSAL AREA D

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SHAFT
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1948 and 1952

UNIT INFORMATION

MDA-D is located on top of a mesa formed by Ancho Canyon and White Rock Canyon, which drain into the Rio Grande. It consists of two areas, each approximately 20' x 30', and each containing an underground concrete chamber, TA-33-4 and -6 [33-003(a) and (b)]. The shaft to each chamber was 6' x 8' x 46' deep and was shored with 2' x 12' timbers. The chambers, located at the bottom of each shaft, were used for testing involving the detonation of explosives. Engineering records show that Chamber TA-33-4 was an octagonal shape 16' x 18' x 11' high and 30' below grade. This chamber was destroyed during testing in April, 1948. Chamber TA-33-4 is now covered with an earthen berm. Engineering records for Chamber TA-33-6 show that it was an octagonal shape 18' x 18' x 16' high, about 30' below grade. This chamber was destroyed during testing in April, 1952.

WASTE INFORMATION

The residue from the tests may contain beryllium and lead. Any of the original polonium has since decayed.

RELEASE INFORMATION

Chamber TA-33-4 was used for an experiment in 1948. A survey of the filled-in shaft after the experiment detected no radioactivity. Chamber TA-33-6 was used for two experiments, one in 1948 and one in 1952; the area around the shaft and chamber was bulldozed in 1953. A radiation survey was then made and the results were negative. It is unknown whether hazardous wastes have been released from the units.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

In addition to septic tank TA-33-93, described under MDA-K, there are six septic systems currently operating in TA-33. These are:

TA-33-31 33-004(a): Serves 56 people (1360 gal. volume). Overflow goes to a leach field. The system appears to be operating properly. The tank has been active from 1950 to present. There are three flow-through points upstream from TA-33-31, TA-33-78, -80 and -81.

TA-33-33 33-004(b): Serves 0 people (730 gal. volume). Overflow goes to a drain line. Although it receives little use, the system appears to be operating properly. The tank has been active from 1950 to present and outfalls to the north side of Chaquehui Canyon.

TA-33-96 33-004(c): Serves 0 people (768 gal. volume). Overflow goes to a leach field. It appears to be operating properly. The tank has been active from 1955 to present.

TA-33-121 33-004(d): Serves 0 to 2 people (500 gal. volume). Overflow goes to a drain line. The system appears to be operating properly. The tank has been active from 1957 to present.

TA-33-161 33-004(e): Serves 17 people (volume is unknown). Overflow goes to a seepage pit at TA-33-188, approximately 20' west of the tank (TA-33-161).

TA-33-23 33-004(f): The tank north of the building, TA-33-23, was constructed in 1987, current operations in this building are unknown.

WASTE INFORMATION

The wastes in these septic tanks is predominantly sanitary sewage. However, there is a possibility that beryllium, mercury, lead, various organic constituents, and radioactive liquid wastes may have been discharged to drains serving several of the tanks, especially TA-33-31. The tank north of the trim building, TA-33-23, may have received HE previously. Waste constituents discharged currently are unknown.

RELEASE INFORMATION

The septic systems appear to be in good working order. There is no specific information on whether releases of hazardous wastes have occurred, although waste handling procedures at TA-33 as of 1971 required that liquids be discarded down designated drains. A radiation survey for tritium at tank 31 was negative.

33-005 DECOMMISSIONED BUILDING 21 DRAIN SYSTEM

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1950's

UNIT INFORMATION

This septic tank, TA-33-32 [33-005(a)], and drain line, contaminated drain manhole, TA-33-74 [33-005(b)], and leach field [33-005(c)] all received effluent from Building 21. The septic tank was decommissioned in the 1950s. No radioactive contamination was found. In addition to the sanitary system, there was a separate industrial waste drain to a leach field. In 1974, the contaminated material from the associated leach field was removed and buried at TA-54, MDA-G.

WASTE INFORMATION

The leach field contained radioactive waste (plutonium) at the time of decommissioning. It is unknown whether hazardous constituents were present.

RELEASE INFORMATION

After removal of contaminated drain lines, leach field, and soil, the remaining soil contained less than 20 pCi/gm gross alpha.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): FIRING SITE
UNIT USE: DISPOSAL/TESTING
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: LATE 1940's - 1960's

UNIT INFORMATION

Full- and half-scale pad shots for initiator development and other tests were conducted at TA-33. Each pad measured about 10'x 10' in size. The shots, being uncontained, spread contamination at the firing areas, with the amount of contamination dependent on the shot size. A half-scale site was on the southern mesa, near TA-33-26 [33-006(a)], and a full-scale site was on the eastern mesa. The eastern mesa site [33-006(b)] had firing pads TA-33-97 and TA-33-98. There were two additional sites located on the east mesa. Shot sizes at TA-33 ranged from 275 to 5000 lbs. of HE, with only a few of the larger shots.

WASTE INFORMATION

Possible constituents of the residues from shots at these sites include HE, beryllium, beryllium oxide, polonium (now decayed out), uranium, tritium (much of which has decayed), and lead.

RELEASE INFORMATION

During the summer of 1984, selected areas at the firing sites near MDA-D and MDA-E were cleaned up of radioactive contamination and debris. Soil and materials known to be contaminated were taken to TA-54, MDA-G. A radiation survey was conducted after the cleanup, and no residual radiation was detected. The survey did not include sampling for nonradioactive contamination. Nonradioactive residuals were disposed of in one of two landfills in TA-33 (see "Firing Area Landfills").

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: DECOMMISSIONED/INACTIVE
PERIOD OF USE: EARLY 1950's-1960's

UNIT INFORMATION

Most of the work performed at TA-33 has involved gun assembly design and testing for weapons projects. This program started in the early 1950's and continued until the mid-1960's. All three testing areas, eastern mesa gun firing area, tower area, and Area 6 [33-007(a), (b), and (c), respectively] at TA-33 were used for this work, but the most extensive activities took place in the east mesa area. Gun sizes ranging from 4" to 8" bore fired projectiles into berms ("catcher boxes") full of soil, wood chips, and vermiculite. Projectiles were retrieved and studied. These assemblies incorporated combinations of various metals with radionuclides and HE. Occasionally during testing, projectiles would stray from the target or break open, thereby spreading contamination. Typical incidents involved cracks in the assembly. In general, grease was applied to broken assemblies to stop or retard radionuclide leakage. Broken or dissected assemblies were taken to MDA-E for disposal (see "MDA-E").

WASTE INFORMATION

Potential contaminants include polonium (now decayed out), beryllium, tritium, cobalt-60, uranium, HE, oil, and possibly metals.

RELEASE INFORMATION

Projectiles occassionally strayed from the target or broke open and spread contamination. In 1984, radioactive materials were removed and taken to TA-54, MDA-G, for disposal. Nonradioactive residuals were disposed of in one of two landfills located in TA-33 (see "Firing Area Landfills"). A radiation survey was conducted after the cleanup and no residual contamination was detected. The survey did not include sampling for nonradioactive waste constituents.

DRAFT

33-008 FIRING AREA LANDFILLS

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1984

UNIT INFORMATION

Two landfills were created to dispose of nonradioactive wastes removed during the cleanup of TA-33 firing areas in 1984. One is located south of Transformer 141 [33-008(a)]. The other is southeast of TA-33-117 [33-008(b)].

WASTE INFORMATION

The waste in the landfills may possibly contain small amounts of lead, beryllium, HE, and unknown chemicals.

RELEASE INFORMATION

There have been no known releases of hazardous wastes from these units.

DRAFT

33-009 AREA 6 LANDFILL

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1950's - 1960's

UNIT INFORMATION

This large surface disposal area measuring 6500 cubic feet, was actively operated at Area 6 until the 1960s. In 1974, it was excavated and the debris removed to TA-54.

WASTE INFORMATION

The waste disposed of in this unit was removed in 1974. Complete records on the characteristics of the wastes are not available, however, materials such as PCB capacitors, uranium, and beryllium may have been disposed of here.

RELEASE INFORMATION

There is no documentation of past releases from this unit. Because the waste in the unit was removed, no current releases are expected in the area having undergone decommissioning. After the 1974 clean-up operations were completed, a radiation survey of the decommissioned region showed that radiation levels at the site were not greater than background. Downslope migration was not surveyed and may remain.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1950's - 1960's

UNIT INFORMATION

Debris remaining at firing pits and pads in TA-33 was in the past bulldozed to the canyon side. The debris included contaminated soil, firing wires, connectors, shrapnel, wood, foam rubber, glass, and conduit. One of the sites [33-010(a)] is located to the south on a gently sloping side of White Rock Canyon. The debris volume is not large, but is scattered. Another site [33-010(b)] is on a cliff shelf of White Rock Canyon to the southwest of TA-33-89. The third site [33-010(c)] is at the Tower Area, south of TA-33-26, and to the west of MDA-E. There is a ditch that passes immediately east of the debris pile.

WASTE INFORMATION

Uranium, beryllium, lead, and residual HE material are suspected.

RELEASE INFORMATION

Although no sampling has been conducted to confirm whether a release has occurred, surface drainage and wind erosion may have mobilized waste constituents.

DRAFT

33-011 DRILLING STORAGE YARD

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ? - 1988

UNIT INFORMATION

This drum storage area, approximately 0.25 acre, was located at the drilling storage yard and contained 55-gallon steel drums placed on pallets or directly on the soil. The unit was intended for the storage of waste oils until recycling. The drums have been removed from the drilling storage yard.

WASTE INFORMATION

The drums contained waste oils potentially contaminated with PCBs.

RELEASE INFORMATION

The RFA reports that the soil samples have shown 1-2 ppm PCBs. The drums and soil have been removed.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - 1988

UNIT INFORMATION

The following container storage areas are active areas according to the LANL container storage area database of October 1988. 1) A drum storage area [33-012(a)] is satellite storage for the shop at TA-33-39. The unit consists of 55-gallon steel drums on an asphalt pad. The area is designed to store wastes generated from vehicle maintenance and equipment repair operations. Additional drums are stored either on pallets or directly on the pad and contain waste oils that may be recycled. 2) A satellite storage area [33-012(b)] consists of drums to store photo-processing chemicals at TA-33-114 in Room 116. 3) Another satellite storage area [33-012(c)] manages waste organics at TA-33-114 in Room 117. 4) A satellite storage area for solvents [33-012(d)] is located at TA-33-19.

WASTE INFORMATION

The wastes stored at TA-33-39 consist of solvents and solvent-contaminated oil potentially containing PCBs and metals. The area in Room 116 in TA-33-114 stores photo-processing chemicals including silver, and Room 117 in TA-33-114 stores waste organics. The storage area at TA-33-19 manages solvents, particularly freon.

RELEASE INFORMATION

Multiple oil stains have been observed around unit at TA-33-39. It is unknown whether hazardous releases have occurred from the other units, although releases are unlikely because the areas are inside buildings.

DRAFT

33-013 TRITIUM-CONTAMINATED LIQUID WASTE STORAGE

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: LATE 1960's-PRESENT

UNIT INFORMATION

This drum storage area was noted during the VSI. The area is used for the storage of tritium-contaminated liquid and solid waste. The unit is located within a fenced area at TA-33-86, next to a tritium receiving site. The drums are underlain by an asphalt pad. The area measures about 50 square feet.

WASTE INFORMATION

The wastes consist of oil and pumps contaminated with tritium. The oil may also contain metals and solvents.

RELEASE INFORMATION

Stains have been observed on the asphalt pad. It is not known whether the underlying soil was contaminated.

DRAFT

33-014 BURNING PIT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's

UNIT INFORMATION

Little is known about the TA-33 burning pit, including its location. A report states that the pit was used for a controlled burn of powder. Powder used at TA-33 in the 1950's included black powder and propellant powders. Propellants used at TA-33 included LA-14B and LA-24B. References as to their potential toxicity are cited in CEARP.

WASTE INFORMATION

HE, including propellant powders, are reported to have been burned.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from this unit; however, complete combustion of the HE would be expected.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1955 - ?

UNIT INFORMATION

A small incinerator, TA-33-110, was once used at this site. It is located in the main laboratory area and is no longer in use. The incinerator was utilized from 1955; it is not known when use was discontinued.

WASTE INFORMATION

The characteristics of the wastes burned in the incinerator are not known.

RELEASE INFORMATION

The characteristics of any combustion products potentially released to the atmosphere are not known. It can be expected that there are no residuals of hazardous wastes remaining.

DRAFT

33-016 HE SUMP

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: UNKNOWN

UNIT INFORMATION

A sump is located outside TA-33-23. Its dimensions are approximately 3' x 2' x 2' deep.

WASTE INFORMATION

The sump may have received HE and oil.

RELEASE INFORMATION

There is no known information pertaining to releases from this unit. The location of decant discharge is not known.

DRAFT

SUMMARY

LOCATION: TA-33
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: VARIOUS

UNIT INFORMATION

Materials handled at TA-33 have included tritium, deuterium, uranium, plutonium, polonium, beryllium, beryllium oxide, mercury, trichloroethylene, and other materials utilized in the manufacture of epoxies, resins, and niobium crystals. The CEARP notes several significant one-time spills, and there is evidence of routine releases of uranium and tritium through uncontrolled stacks.

WASTE INFORMATION

Releases have included radioactive waste, organics, metals, and other materials listed above.

RELEASE INFORMATION

Above background levels of uranium and tritium have been measured in soils at TA-33 at sample locations near TA-33-86, TA-33-21, and TA-33-40. Analytical data is not available to document whether residuals of nonradioactive materials remain from these releases.

DRAFT

TA-33 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
33-001(a)	33-1, 33-2, 33-5
33-001(b)	33-1, 33-2, 33-5
33-001(c)	33-1, 33-2, 33-5
33-001(d)	33-1, 33-2, 33-5
33-001(e)	33-1, 33-2, 33-5
33-002(a)	33-1, 33-5
33-002(b)	33-1, 33-5
33-002(c)	33-1, 33-5
33-003(a)	33-2, 33-3, 33-5
33-003(b)	33-2, 33-3, 33-5
33-004(a)	33-1
33-004(b)	33-1
33-004(c)	33-1
33-004(d)	33-1
33-004(e)	33-1
33-004(f)	33-1
33-005(a)	33-2
33-005(b)	33-2
33-006(a)	33-1
33-006(b)	33-3
33-007(a)	33-2, 33-3
33-007(b)	33-2
33-007(c)	33-2
33-008(a)	33-2
33-008(b)	33-1
33-009	33-2
33-010(a)	33-3
33-010(b)	33-1, 33-3
33-010(c)	33-1
33-011	33-1

DRAFT

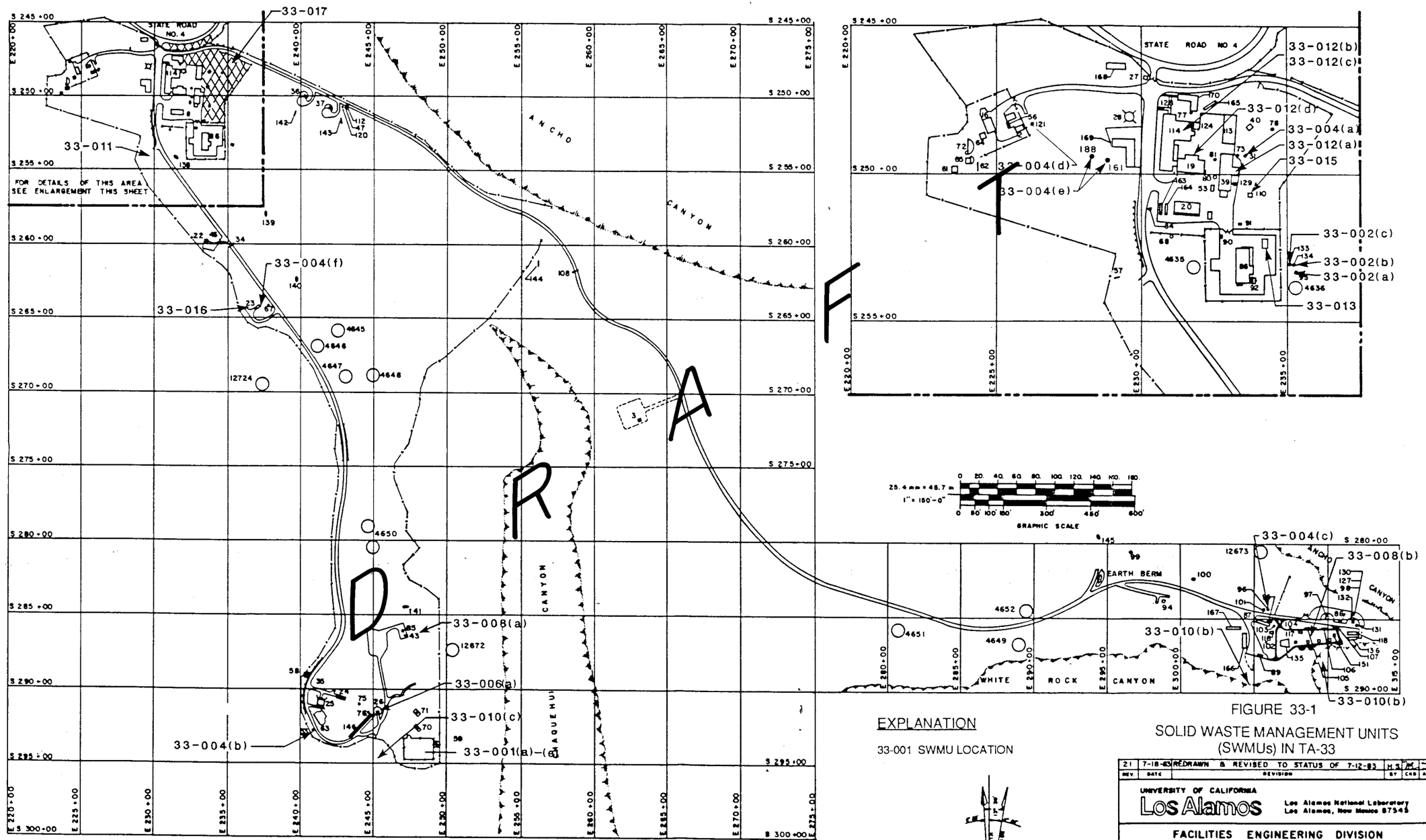
TA-33 SOLID WASTE MANAGEMENT UNITS
(SWMUs) FIGURE INDEX
(CONTINUED)

SWMU	FIGURE NUMBER
33-012(a)	33-1
33-012(b)	33-1
33-012(c)	33-1
33-012(d)	33-2
33-013	33-1
33-014	Not shown, location unknown
33-015	33-1
33-016	Extensive area
33-017	

NOTE: Some structure locations contain more than one SWMU.

DRAFT

301215 02 01 B90



EXPLANATION

33-001 SWMU LOCATION

FIGURE 33-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-33

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
21	7-18-83	REDRAWN & REVISED TO STATUS OF 7-12-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-33 HP-SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 9-6-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN HERB SALAZAR; DATE 7-18-83; SHEET NO. 2 of 2; DRAWING NO. ENG-R5116

301215 02 01 B64

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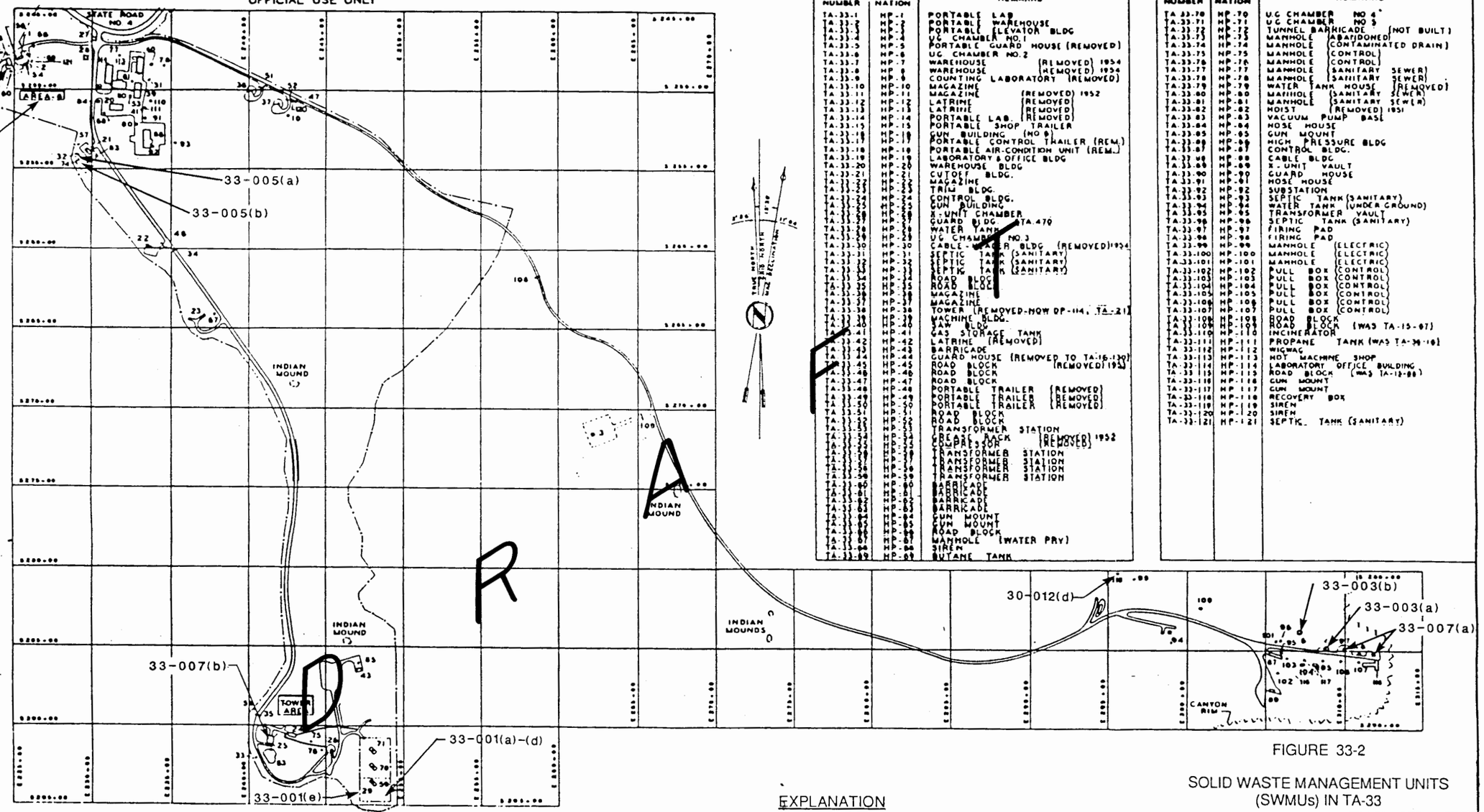

STRUCTURE NUMBER	DESIG-NATION	REMARKS
TA-33-1	HP-1	PORTABLE LAB
TA-33-2	HP-2	PORTABLE WAREHOUSE
TA-33-3	HP-3	PORTABLE ELEVATOR BLDG
TA-33-4	HP-4	UG CHAMBER NO. 1
TA-33-5	HP-5	PORTABLE GUARD HOUSE (REMOVED)
TA-33-6	HP-6	UG CHAMBER NO. 2
TA-33-7	HP-7	WAREHOUSE (REMOVED) 1954
TA-33-8	HP-8	WAREHOUSE (REMOVED) 1954
TA-33-9	HP-9	COUNTING LABORATORY (REMOVED)
TA-33-10	HP-10	MAGAZINE
TA-33-11	HP-11	MAGAZINE (REMOVED) 1952
TA-33-12	HP-12	LATRINE (REMOVED)
TA-33-13	HP-13	LATRINE (REMOVED)
TA-33-14	HP-14	PORTABLE LAB. (REMOVED)
TA-33-15	HP-15	PORTABLE SHOP TRAILER
TA-33-16	HP-16	GUN BUILDING (NO 9)
TA-33-17	HP-17	PORTABLE CONTROL TRAILER (REM.)
TA-33-18	HP-18	PORTABLE AIR-CONDITION UNIT (REM.)
TA-33-19	HP-19	LABORATORY & OFFICE BLDG
TA-33-20	HP-20	WAREHOUSE BLDG
TA-33-21	HP-21	CUTOFF BLDG.
TA-33-22	HP-22	MAGAZINE
TA-33-23	HP-23	TRIM BLDG.
TA-33-24	HP-24	CONTROL BLDG.
TA-33-25	HP-25	GUN BUILDING
TA-33-26	HP-26	X-UNIT CHAMBER
TA-33-27	HP-27	GUARD BLDG. TA-470
TA-33-28	HP-28	WATER TANK
TA-33-29	HP-29	UG CHAMBER NO. 3
TA-33-30	HP-30	CABLE-[illegible] BLDG (REMOVED) 1954
TA-33-31	HP-31	SEPTIC TANK (SANITARY)
TA-33-32	HP-32	SEPTIC TANK (SANITARY)
TA-33-33	HP-33	SEPTIC TANK (SANITARY)
TA-33-34	HP-34	ROAD BLOCK
TA-33-35	HP-35	ROAD BLOCK
TA-33-36	HP-36	MAGAZINE
TA-33-37	HP-37	MAGAZINE
TA-33-38	HP-38	TOWER (REMOVED-NOW DP-114, TA-21)
TA-33-39	HP-39	MACHINE BLDG.
TA-33-40	HP-40	SAW BLDG.
TA-33-41	HP-41	GAS STORAGE TANK
TA-33-42	HP-42	LATRINE (REMOVED)
TA-33-43	HP-43	BARRICADE
TA-33-44	HP-44	GUARD HOUSE (REMOVED TO TA-16-330)
TA-33-45	HP-45	ROAD BLOCK (REMOVED) 1953
TA-33-46	HP-46	ROAD BLOCK
TA-33-47	HP-47	ROAD BLOCK
TA-33-48	HP-48	PORTABLE TRAILER (REMOVED)
TA-33-49	HP-49	PORTABLE TRAILER (REMOVED)
TA-33-50	HP-50	PORTABLE TRAILER (REMOVED)
TA-33-51	HP-51	ROAD BLOCK
TA-33-52	HP-52	ROAD BLOCK
TA-33-53	HP-53	TRANSFORMER STATION
TA-33-54	HP-54	GREASE RACK (REMOVED) 1952
TA-33-55	HP-55	COMPRESSOR (REMOVED)
TA-33-56	HP-56	TRANSFORMER STATION
TA-33-57	HP-57	TRANSFORMER STATION
TA-33-58	HP-58	TRANSFORMER STATION
TA-33-59	HP-59	TRANSFORMER STATION
TA-33-60	HP-60	BARRICADE
TA-33-61	HP-61	BARRICADE
TA-33-62	HP-62	BARRICADE
TA-33-63	HP-63	BARRICADE
TA-33-64	HP-64	GUN MOUNT
TA-33-65	HP-65	GUN MOUNT
TA-33-66	HP-66	ROAD BLOCK
TA-33-67	HP-67	MANHOLE (WATER PRY)
TA-33-68	HP-68	SIREN
TA-33-69	HP-69	BUTANE TANK

STRUCTURE NUMBER	DESIG-NATION	REMARKS
TA-33-70	HP-70	U.G CHAMBER NO 4
TA-33-71	HP-71	U.G CHAMBER NO 5
TA-33-72	HP-72	TUNNEL BARRICADE (NOT BUILT)
TA-33-73	HP-73	MANHOLE (ABATIDONED)
TA-33-74	HP-74	MANHOLE (CONTAMINATED DRAIN)
TA-33-75	HP-75	MANHOLE (CONTROL)
TA-33-76	HP-76	MANHOLE (CONTROL)
TA-33-77	HP-77	MANHOLE (SANITARY SEWER)
TA-33-78	HP-78	MANHOLE (SANITARY SEWER)
TA-33-79	HP-79	WATER TANK HOUSE (REMOVED)
TA-33-80	HP-80	MANHOLE (SANITARY SEWER)
TA-33-81	HP-81	MANHOLE (SANITARY SEWER)
TA-33-82	HP-82	HOIST (REMOVED) 1951
TA-33-83	HP-83	VACUUM PUMP BASE
TA-33-84	HP-84	HOSE HOUSE
TA-33-85	HP-85	GUN MOUNT
TA-33-86	HP-86	HIGH PRESSURE BLDG
TA-33-87	HP-87	CONTROL BLDG.
TA-33-88	HP-88	CABLE BLDG
TA-33-89	HP-89	X-UNIT VAULT
TA-33-90	HP-90	GUARD HOUSE
TA-33-91	HP-91	HOSE HOUSE
TA-33-92	HP-92	SUBSTATION
TA-33-93	HP-93	SEPTIC TANK (SANITARY)
TA-33-94	HP-94	WATER TANK (UNDER GROUND)
TA-33-95	HP-95	TRANSFORMER VAULT
TA-33-96	HP-96	SEPTIC TANK (SANITARY)
TA-33-97	HP-97	FIRING PAD
TA-33-98	HP-98	FIRING PAD
TA-33-99	HP-99	MANHOLE (ELECTRIC)
TA-33-100	HP-100	MANHOLE (ELECTRIC)
TA-33-101	HP-101	MANHOLE (ELECTRIC)
TA-33-102	HP-102	PULL BOX (CONTROL)
TA-33-103	HP-103	PULL BOX (CONTROL)
TA-33-104	HP-104	PULL BOX (CONTROL)
TA-33-105	HP-105	PULL BOX (CONTROL)
TA-33-106	HP-106	PULL BOX (CONTROL)
TA-33-107	HP-107	PULL BOX (CONTROL)
TA-33-108	HP-108	ROAD BLOCK
TA-33-109	HP-109	ROAD BLOCK (WAS TA-15-07)
TA-33-110	HP-110	INCINERATOR
TA-33-111	HP-111	PROPANE TANK (WAS TA-39-10)
TA-33-112	HP-112	WIGWAG
TA-33-113	HP-113	HOT MACHINE SHOP
TA-33-114	HP-114	LABORATORY OFFICE BUILDING
TA-33-115	HP-115	ROAD BLOCK (WAS TA-13-88)
TA-33-116	HP-116	GUN MOUNT
TA-33-117	HP-117	GUN MOUNT
TA-33-118	HP-118	RECOVERY BOX
TA-33-119	HP-119	SIREN
TA-33-120	HP-120	SIREN
TA-33-121	HP-121	SEPTIC TANK (SANITARY)

EXPLANATION

33-001 SWMU LOCATION

FIGURE 33-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-33

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

STRUCTURE LOCATION PLAN
TA-33 HP SITE

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT, SEC

N BYERS | 12/7/55 | 1" = 300' | 1 of 1 | ENG-R 152

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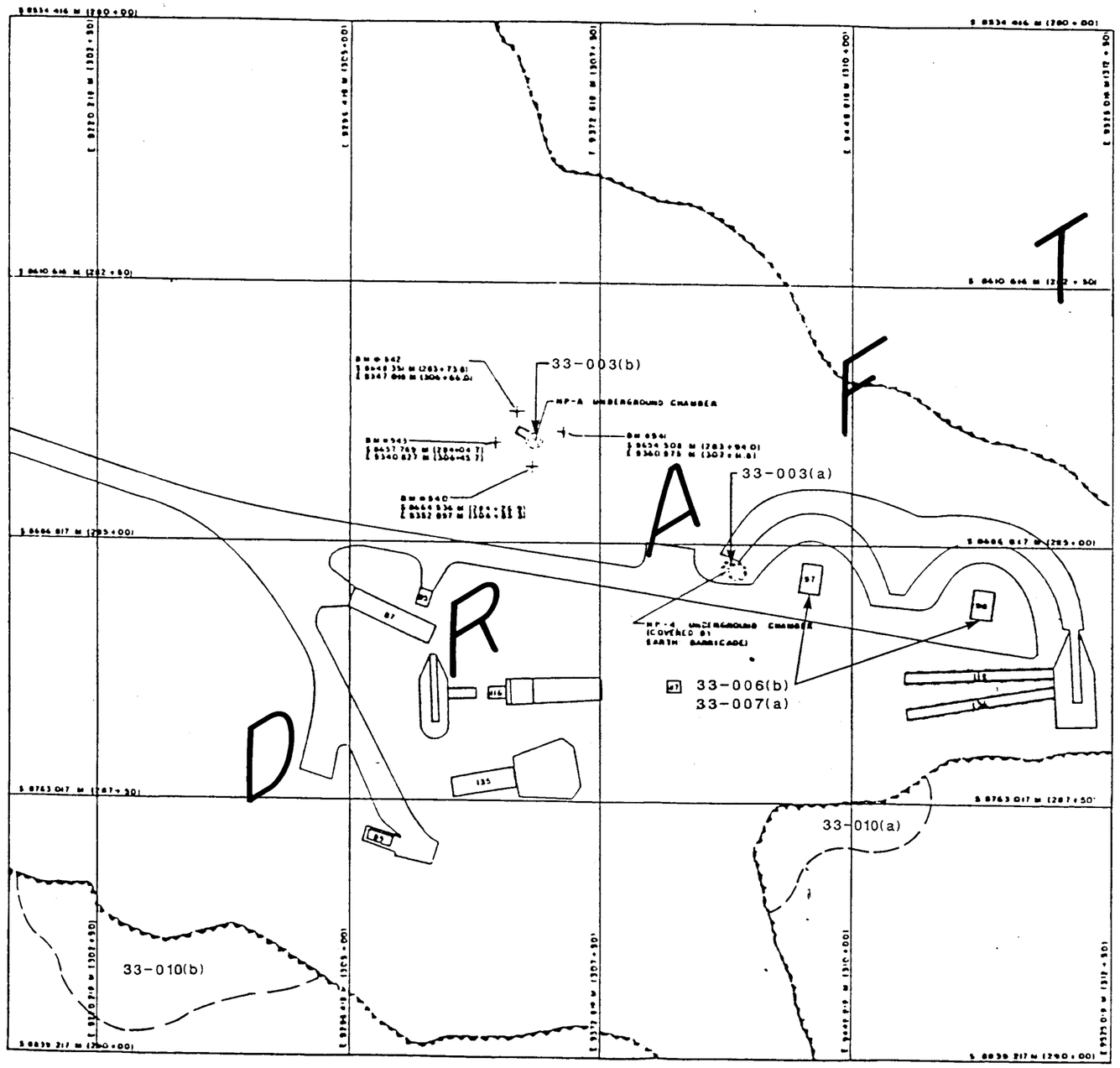
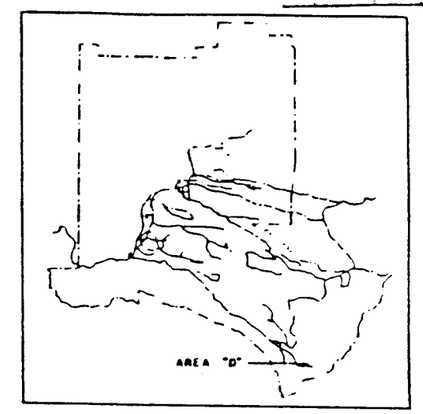
UNCLASSIFIED

301215 02 01 B65





LOCATION PLAN

EXPLANATION

33-003 SWMU LOCATION

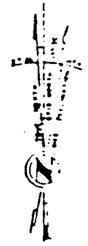


FIGURE 33-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-33

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREAS

AREA "D"

ENG R 4460

UNCLASSIFIED

301215 02 01 B66

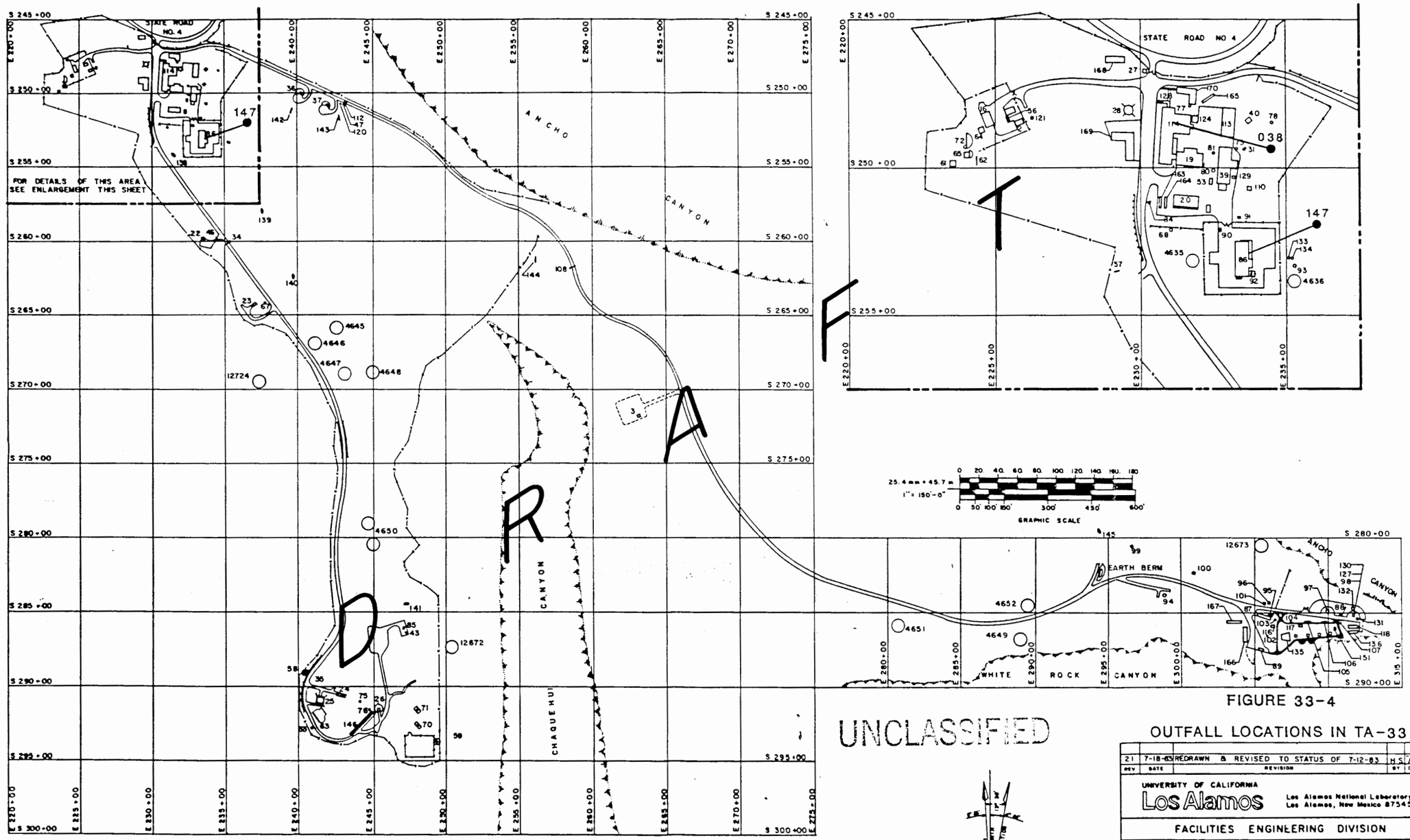


FIGURE 33-4

OUTFALL LOCATIONS IN TA-33

UNCLASSIFIED

EXPLANATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBER (SEE APPENDIX A)

REV	DATE	REVISION	BY	CKD	APP
21	7-18-83	REDRAWN & REVISED TO STATUS OF 7-12-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

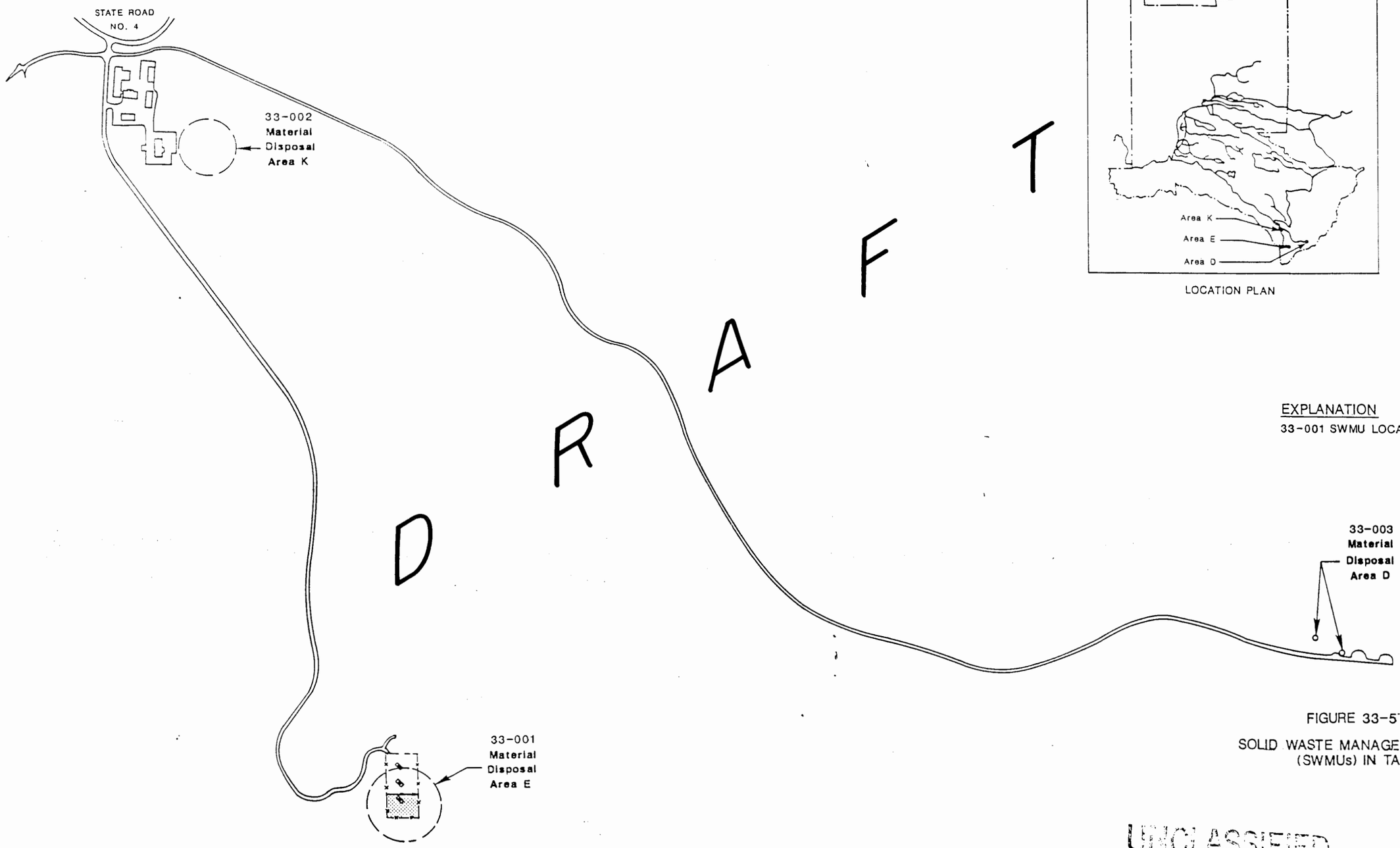
TA-33 HP-SITE

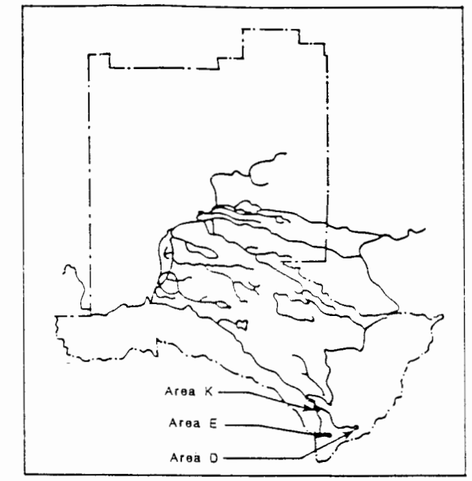
SEC CLASSIFICATION: CLASS U
REVIEWED
DATE 4-6-83

SUBMITTED | RECOMMENDED | APPROVED

DRAWN HERB SALGADO
CHECKED
DATE 7-18-83
SHEET NO 2 of 2
DRAWING NO ENG-R5116

301215 02 01 B170





LOCATION PLAN

EXPLANATION

33-001 SWMU LOCATION.

FIGURE 33-5

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-33

DRAFT

UNCLASSIFIED

301215 02 01 B29

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-33-1	HP-1	PORTABLE LABORATORY		S250+00E225+00
TA-33-2	HP-2	PORTABLE WAREHOUSE		S250+00 E225+00
TA-33-3	HP-3	PORTABLE ELEVATOR BLDG.		S270+00 E265+00
TA-33-4	HP-4		DESTROYED 1948	
TA-33-5	HP-5		REMOVED 1954	
TA-33-6	HP-6		DESTROYED 1948	
TA-33-7	HP-7		REMOVED 1954	
TA-33-8	HP-8		REMOVED 1954	
TA-33-9	HP-9		REMOVED 1954	
TA-33-10	HP-10		REMOVED 1974	
TA-33-11	HP-11		REMOVED 1952	
TA-33-12	HP-12		REMOVED 1950	
TA-33-13	HP-13		REMOVED 1950	
TA-33-14	HP-14		REMOVED 1951	
TA-33-15	HP-15		REMOVED 1967	
TA-33-16	HP-16	GUN BUILDING NO. 8		S250+00E225+00
TA-33-17	HP-17		REMOVED 1951	
TA-33-18	HP-18		REMOVED 1951	
TA-33-19	HP-19	LABORATORY & OFFICE BLDG.		S250+00 E220+00
TA-33-20	HP-20	WAREHOUSE		S250+00 E230+00
TA-33-21	HP-21		DEMOLISHED 1975	
TA-33-22	HP-22	MAGAZINE		S260+00 E235+00
TA-33-23	HP-23	TRIM BUILDING		S260+00 E235+00
TA-33-24	HP-24	CONTROL BUILDING		S290+00 E245+00
TA-33-25	HP-25	GUN BUILDING		S290+00 E240+00
TA-33-26	HP-26	X-UNIT CHAMBER		S290+00 E245+00
TA-33-27	HP-27	GUARD HOUSE		S245+00 E220+00
TA-33-28	HP-28	TANK, WATER		S245+00 E230+00
TA-33-29	HP-29		DESTROYED 1950	
TA-33-30	HP-30		REMOVED 1954	
TA-33-31	HP-31	TANK, SEPTIC		S250+00 E235+00
TA-33-32	HP-32		REMOVED 1975	
TA-33-33	HP-33	TANK, SEPTIC		S290+00 E240+00
TA-33-34	HP-34	ROAD BLOCK		S260+00 E235+00
TA-33-35	HP-35	ROAD BLOCK		S290+00 E240+00
TA-33-36	HP-36	MAGAZINE		S250+00 E240+00
TA-33-37	HP-37	MAGAZINE		S250+00 E240+00
TA-33-38	HP-38		REMOVED 1952	
TA-33-39	HP-39	MACHINE SHOP		S250+00 E235+00
TA-33-40	HP-40	SAW BUILDING		S250+00 E235+00
TA-33-41	HP-41		REMOVED 1963	
TA-33-42	HP-42		REMOVED 1953	
TA-33-43	HP-43	BARRICADE		S285+00 E245+00
TA-33-44	HP-44		REMOVED 1951	
TA-33-45	HP-45		REMOVED 1953	
TA-33-46	HP-46	ROAD BLOCK		S260+00 E235+00
TA-33-47	HP-47	ROAD BLOCK		S250+00 E245+00
TA-33-48	HP-48		REMOVED 1953	
TA-33-49	HP-49		REMOVED 1951	
TA-33-50	HP-50		REMOVED 1951	
TA-33-51	HP-51		DESTROYED 1979	
TA-33-52	HP-52		DESTROYED 1979	
TA-33-53	HP-53	TRANSFORMER STATION		S250+00 E235+00
TA-33-54	HP-54		REMOVED 1952	
TA-33-55	HP-55		REMOVED 1975	
TA-33-56	HP-56	TRANSFORMER STATION		S250+00 E225+00
TA-33-57	HP-57	TRANSFORMER STATION		S255+00 E230+00
TA-33-58	HP-58	TRANSFORMER STATION		S290+00 E240+00
TA-33-59	HP-59	TRANSFORMER STATION	ABANDONED 1954	S295+00 E250+00
TA-33-60	HP-60		REMOVED 1952	
TA-33-61	HP-61	BARRICADE	ABANDONED 1962	S250+00 E220+00
TA-33-62	HP-62	BARRICADE	ABANDONED 1962	S250+00 E225+00
TA-33-63	HP-63	BARRICADE		S290+00 E240+00
TA-33-64	HP-64	GUN MOUNT	ABANDONED 1962	S250+00 E225+00
TA-33-65	HP-65	GUN MOUNT	ABANDONED 1962	S250+00 E225+00
TA-33-66	HP-66		REMOVED 1960	
TA-33-67	HP-67	MANHOLE, WATER PRV		S285+00 E240+00
TA-33-68	HP-68	SIREN		S250+00 E230+00
TA-33-69	HP-69		REMOVED 1956	
TA-33-70	HP-70	U.G. CHAMBER NO. 4		S295+00 E250+00
TA-33-71	HP-71	U.G. CHAMBER NO. 5		S290+00 E250+00
TA-33-72	HP-72	TUNNEL BARRICADE	ABANDONED 1962	S250+00 E225+00
TA-33-73	HP-73	MANHOLE, SANITARY	ABANDONED 1951	S250+00 E235+00
TA-33-74	HP-74		REMOVED 1975	
TA-33-75	HP-75	MANHOLE, CONTROL		S290+00 E245+00
TA-33-76	HP-76	MANHOLE, CONTROL		S290+00 E245+00
TA-33-77	HP-77	MANHOLE, SANITARY		S250+00 E230+00
TA-33-78	HP-78	MANHOLE, SANITARY		S250+00 E235+00
TA-33-79	HP-79		REMOVED 1952	
TA-33-80	HP-80	MANHOLE, SANITARY		S250+00 E230+00
TA-33-81	HP-81	MANHOLE, SANITARY		S250+00 E230+00
TA-33-82	HP-82		REMOVED 1951	
TA-33-83	HP-83		REMOVED 1975	
TA-33-84	HP-84	HOSE HOUSE		S250+00 E230+00
TA-33-85	HP-85	GUN MOUNT		S285+00 E245+00
TA-33-86	HP-86	LABORATORY BUILDING		S255+00 E235+00
TA-33-87	HP-87	CONTROL BUILDING		S285+00 E305+00
TA-33-88	HP-88	CABLE BUILDING		S285+00 E310+00
TA-33-89	HP-89	X-UNIT VAULT		S290+00 E305+00
TA-33-90	HP-90	GUARD HOUSE		S255+00 E235+00
TA-33-91	HP-91	HOSE HOUSE		S255+00 E235+00
TA-33-92	HP-92	SUBSTATION		S255+00 E235+00
TA-33-93	HP-93	TANK, SEPTIC		S255+00 E235+00
TA-33-94	HP-94	TANK, WATER UG		S285+00 E300+00
TA-33-95	HP-95	TRANSFORMER VAULT		S285+00 E305+00
TA-33-96	HP-96	TANK, SEPTIC		S285+00 E305+00
TA-33-97	HP-97	FIRING PAD		S285+00 E310+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-33-98	HP-98	FIRING PAD		S285+00 E310+00
TA-33-99	HP-99	MANHOLE, ELECTRICAL		S280+00 E295+00
TA-33-100	HP-100	MANHOLE, ELECTRICAL		S280+00 E300+00
TA-33-101	HP-101	MANHOLE, ELECTRICAL		S285+00 E305+00
TA-33-102	HP-102	MANHOLE, CONTROL		S285+00 E305+00
TA-33-103	HP-103	MANHOLE, CONTROL		S285+00 E305+00
TA-33-104	HP-104	MANHOLE, CONTROL		S285+00 E305+00
TA-33-105	HP-105	MANHOLE, CONTROL		S285+00 E310+00
TA-33-106	HP-106	MANHOLE, CONTROL		S285+00 E310+00
TA-33-107	HP-107	MANHOLE, CONTROL		S285+00 E310+00
TA-33-108	HP-108	ROAD BLOCK		S260+00 E280+00
TA-33-109	HP-109		REMOVED 1967	
TA-33-110	HP-110	INCINERATOR		S250+00 E235+00
TA-33-111	HP-111		REMOVED 1963	
TA-33-112	HP-112	WIGWAG		S250+00 E245+00
TA-33-113	HP-113	HOT MACHINE SHOP		S250+00 E235+00
TA-33-114	HP-114	LABORATORY & OFFICE BLDG.		S250+00 E230+00
TA-33-115	HP-115	ROAD BLOCK	RELOCATED TO TA-39-61	
TA-33-116	HP-116	GUN MOUNT		S285+00 E305+00
TA-33-117	HP-117	GUN MOUNT		S285+00 E310+00
TA-33-118	HP-118	RECOVERY BOX		S285+00 E310+00
TA-33-119	HP-119		REMOVED 1980	
TA-33-120	HP-120	SIREN		S250+00 E245+00
TA-33-121	HP-121	TANK, SEPTIC		S250+00 E225+00
TA-33-122	HP-122		CANCELLED	
TA-33-123	HP-123		CANCELLED	
TA-33-124	HP-124	SUBSTATION		S250+00 E230+00
TA-33-125	HP-125		REMOVED 1963	
TA-33-126	HP-126		REMOVED 1963	
TA-33-127	HP-127	GUN BUILDING		S285+00 E310+00
TA-33-128	HP-128	STAIRWAY		S250+00 E230+00
TA-33-129	HP-129	TEST CELL		S250+00 E235+00
TA-33-130	HP-130	GUN MOUNT		S285+00 E310+00
TA-33-131	HP-131	RECOVERY BOX		S285+00 E310+00
TA-33-132	HP-132	OBSERVATION BARRICADE		S285+00 E310+00
TA-33-133	HP-133	SUMP, ACID SEWER		S255+00 E235+00
TA-33-134	HP-134	SUMP, ACID SEWER		S255+00 E235+00
TA-33-135	HP-135	GUN MOUNT		S285+00 E305+00
TA-33-136	HP-136	RECOVERY BOX		S285+00 E310+00
TA-33-137	HP-137		REMOVED 1963	
TA-33-138	HP-138	TRANSFORMER STATION		S255+00 E230+00
TA-33-139	HP-139	TRANSFORMER STATION		S260+00 E235+00
TA-33-140	HP-140	TRANSFORMER STATION		S255+00 E240+00
TA-33-141	HP-141	TRANSFORMER STATION		S285+00 E245+00
TA-33-142	HP-142	TRANSFORMER STATION		S250+00 E240+00
TA-33-143	HP-143	TRANSFORMER STATION		S255+00 E245+00
TA-33-144	HP-144	TRANSFORMER STATION		S260+00 E260+00
TA-33-145	HP-145	TRANSFORMER STATION		S280+00 E295+00
TA-33-146	HP-146	GUN MOUNT		S295+00 E245+00
TA-33-147	HP-147		CANCELLED	
TA-33-148	HP-148		CANCELLED	
TA-33-149	HP-149		CANCELLED	
TA-33-150	HP-150		CANCELLED	
TA-33-151	HP-151	BUNKER		S285+00 E310+00
TA-33-152	HP-152			
TA-33-153	HP-153			
TA-33-154	HP-154			
TA-33-155	HP-155		CANCELLED	
TA-33-156	HP-156		REMOVED 1976	
TA-33-157	HP-157		REMOVED 1976	
TA-33-158	HP-158		CANCELLED	
TA-33-163	HP-163	TRAILER, OFFICE	FORMERLY TA-0-537	
TA-33-164	HP-164	TRAILER, OFFICE	FORMERLY TA-0-538	
TA-33-165	HP-165	TRAILER, OFFICE	FORMERLY TA-0-655	
TA-33-166	HP-166	TRAILER, INSTRUMENT	FORMERLY TA-0-688	
TA-33-167	HP-167	TRAILER, LAB	FORMERLY TA-0-689	
TA-33-168	HP-168	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1033	
TA-33-169	HP-169	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1181	
TA-33-170	HP-170	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1208	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 33-6

TA-33 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
19	8-17-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-12-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-33 HP-SITE

SEC CLASSIFICATION: CLASS U
REVIEWED
DATE 7-23-69

SUBMITTED | RECOMMENDED | APPROVED
DRAWN | CHECKED | DATE 8-17-83 | SHEET NO 1 OF 2 | DRAWING NO ENG-R5116

TA-35

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 35 is used in safeguard studies, laser research and development, physics research, fusion work, and other experimental research projects. The work involves theory, materials development, and basic research in physics and chemistry. Formerly, the area was used in source manufacturing, manufacturing of specialty materials, and reactor development (including the building of several reactors).

TA-35 lies at elevations between about 7,150 and 7,250 feet asl. It is located on a finger mesa between Mortandad Canyon on the north and Ten Site Canyon (a branch of Mortanded Canyon) on the south. Canyon walls are steep or cliffs in this area.

TA-35 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine and Shrub-Grass-Forb overstory vegetation zones. Two soils series are present at TA-35. The first, the Nyjack loam series, are moderately deep (50 to 102 cm), runoff is slow, permeability is moderate (1.6 to 5.0 cm/h), and water erosion is slight (0.0 to 0.13 cm, measured as the soil loss from bare soil exposed to the Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy-Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr, from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

At TA-35, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,950 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

35-001 MATERIAL DISPOSAL AREA W

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SHAFT
UNIT USE: DISPOSAL/STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1970's

UNIT INFORMATION

This unit, Material Disposal Area W (MDA-W), consists of two vertical tubes used to dispose of liquid sodium coolant from the decommissioned LAMPRE reactor. The liquid sodium coolant was placed in 120' long stainless steel tubes with a 4" outer diameter. The stainless steel tubes were placed in carbon steel sleeves that lined 115' deep drill holes. The portion of the tubes that extend above grade (about 5') are entombed in concrete. The tubes are estimated to contain 500-650 lbs. of sodium and NaK (a reactive metal alloy) with plutonium-239 and traces of fission products.

WASTE INFORMATION

The steel tubes contain sodium and sodium/potassium alloy contaminated with plutonium and fission fragments.

RELEASE INFORMATION

There have been no known releases from this unit.

DRAFT

35-002 MATERIAL DISPOSAL AREA X

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): MATERIAL DISPOSAL AREA
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1968

UNIT INFORMATION

A reactor, LAPRE II, was built in a steel-lined subgrade pit south of Building 2. The reactor had an associated subsurface fuel reservoir located north of the reactor pit. The uranium-235 fuel solution was drained from the reactor and fuel reservoir in 1959 and the area was later covered with soil and asphalt. It is now known as Material Disposal Area X (MDA-X).

WASTE INFORMATION

Traces of the liquid metal solution and activation and fission products are believed to remain within the reactor pit and fuel reservoir.

RELEASE INFORMATION

Above background activity levels are found in the area around MDA-X. This is believed to be due to the residuals in the vessels within MDA-X and not migration of radionuclides.

DRAFT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): WASTE TREATMENT PLANT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED/INACTIVE
PERIOD OF USE: 1950's - 1963

UNIT INFORMATION

A waste treatment plant was located at the end of the mesa, near the eastern boundary of TA-35. It consisted of waste lines, storage tanks, an air filter building, ion exchange columns, and chemical treatment and precipitation tanks. The receiving canyon was the disposal area for the treated liquids as well as emergency discharges of untreated liquids.

STRUCTURE	SWMU NO.	STRUCTURE TYPE	STATUS	STRUCTURE	SWMU NO.	STRUCTURE TYPE	STATUS
TA-35-4	35-003(a)	tank	inactive	TA-35-96	35-003(j)	storage tank	removed 1976
TA-35-5	35-003(b)	tank	inactive	TA-35-97	35-003(k)	storage tank	removed 1976
TA-35-6	35-003(c)	tank	inactive	TA-35-8	35-003(l)	pump pit	removed 1984
TA-35-10	35-003(d)	hold-up tank building	removed 1984	TA-35-22	35-003(m)	sludge tank	removed 1984
TA-35-36	35-003(e)	storage tank	removed 1980	TA-35-3	35-003(n)	phase seperator pit	inactive
TA-35-37	35-003(f)	flocculator tank	removed 1980	TA-35-12	35-003(o)	manhole	removed 1984
TA-35-38	35-003(g)	regenerant tank	removed 1980	TA-35-7	35-003(p)	air filter building	inactive
TA-35-31	35-003(h)	retention tank	removed 1984	TA-35-9	35-003(q)	pipe trench	removed 1984
TA-35-78	35-003(i)	surge tank	removed 1976				

Many of these structures have been removed; however, TA-35-4, -5, -6 and -7, (with many treatment units removed) remain. Small segments of piping also remain. The treatment plant had an outfall associated with it.

WASTE INFORMATION

The waste going into the treatment plant included radioactive-contaminated air from the work areas in building TA-35-2 and liquid contaminated with radioactive constituents (mainly strontium but fission fragments, plutonium, and uranium were also present). The liquids probably also contained solvents and other chemicals.

RELEASE INFORMATION

The treated liquids (and in some cases emergency discharges of untreated liquids) were discharged from the end of the mesa into Mortandad Canyon. The TA-35 discharge area in the canyon has been estimated as 10,000 square meters. The residues are being mobilized as evidenced by elevated radioactivity levels in the canyon (cited in the CEARP); residues of hazardous, nonradioactive materials may also be present in the canyon. Some subsurface contamination remains near the old structures at TA-35.

35-004 ACTIVE / INACTIVE CONTAINER STORAGE AREAS

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

The following table describes active satellite storage areas at TA-35.

STRUCTURE	SWMU NO.	LOCATION
TA-35-25	35-004(a)	east side
TA-35-85	35-004(b)	east end
TA-35-125	35-004(c)	south side
TA-35-125	35-004(d)	basement
TA-35-2	35-004(e)	Room C18
TA-35-207	35-004(f)	Room 102
TA-35-67	35-004(g)	
TA-35-11	35-004(h)	
TA-35-58	35-004(i)	
TA-35-128	35-004(j)	

One storage area at TA-35-50 was seen at the VSI. This storage area is currently inactive.

WASTE INFORMATION

The following table describes the stored waste in these areas.

LOCATION	WASTE
TA-35	possibly spent chemicals
TA-35-25	Stoddard solvent
TA-35-85, -125	acetone, alcohols, oils, solvents, contaminated rags
TA-35-125 (basement)	laser dye/solvents(oil), acetone
TA-35-2 (Room C18)	solvents, laser dyes
TA-35-207	laser dye/solvents, oil, acetone
TA-35-67	oils, solvents
TA-35-11, -58, -128	oil

RELEASE INFORMATION

Releases were apparent at TA-35-25 and -125 during the VSI, however these areas were recently cleaned up. The CEARP reported leaking drums and capacitors in these same areas. It is unknown if there have been hazardous releases from the other areas. Storage areas are inspected regularly.

DRAFT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1980's

UNIT INFORMATION

There are two surface impoundments currently awaiting closure according to submitted closure plans. One pond is located to the east of TA-35-85 [35-005(a)]. The other pond [35-005(b)] is located on a bench south of TA-35-125. The pond near TA-35-85 was used by the chemical laser facility.

WASTE INFORMATION

Storm water and liquids containing waste oil from TA-35-85 and TA-35-125 were discharged to the ponds. Solvents were also present in the liquid discharged to the TA-35-85 and TA-35-125 ponds.

RELEASE INFORMATION

The TA-35-125 pond shows evidence of continued releases through an overflow to a tributary of Mortandad Canyon.

DRAFT

35-006 DECOMMISSIONED SURFACE IMPOUNDMENT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ? - 1985

UNIT INFORMATION

A lagoon was removed when the pond east of TA-35-85 (see 35-005) was built in 1985. The chemical laser facility used the lagoon to dispose of waste oil.

WASTE INFORMATION

The liquids discharged to the pond contained waste oil. It is unknown if other wastes, such as solvents, were also present.

RELEASE INFORMATION

It is unknown if the pond released hazardous waste. However, the CEARP survey noted that the lagoon had occasionally overflowed to the canyon.

DRAFT

35-007 OIL WASTE TREATMENT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): RECYCLING UNIT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

TA-35 has an active oil waste treatment system. The system includes an oil recovery unit which is enclosed in a trailer located behind TA-35-125. The system manages waste oil from TA-35 operations. This system includes a vacuum system and molecular sieves for water and carbon removal. Total capacity is 1,000 gallons.

WASTE INFORMATION

Wastes handled are waste oils from TA-35 operations. These oils contain water and other contaminants which must be removed in order for the oil used in the Marx units to function properly.

RELEASE INFORMATION

This unit does not discharge to the environment. There have been no known hazardous releases.

DRAFT

35-008 SURFACE DISPOSAL / LANDFILL

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

This unit is an open surface disposal area on the north side of TA-35, near the canyon edge.

WASTE INFORMATION

Waste in this disposal area is nonhazardous debris that includes concrete, conduits, asphalt, pipe, reinforcing rod, and dirt.

RELEASE INFORMATION

There have been no known releases of hazardous material from this surface disposal area.

DRAFT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Two active and two inactive septic systems are present at TA-35. The components of these systems are:

STRUCTURE NO	SWMU NO	PERIOD OF USE	UNIT TYPE	CAPACITY	CONSTRUCTION	OVERFLOW
INACTIVE						
TA-35-14	35-009(a)	1951 - 1975	tank	1500 gal.		dosing chamber (TA-35-15)
TA-35-15	35-009(b)	1951 - 1975	dosing chamber			distribution box (TA-35-16)
TA-35-16	35-009(c)	1951 - 1973	distribution box			drain field
TA-35-76	35-009(d)	1966 - 1975	tank		reinforced concrete 7' x 14.5' x 6'	distribution box(TA-35-77)
TA-35-77	35-009(e)	1966 - 1975	distribution box		reinforced concrete 2.7' x 3.3' x 2.7'	drain field
ACTIVE						
TA-35-44	35-009(f)	1961 - present	tank	1290 gal.		pumped weekly
TA-35-65	35-009(g)	1966 - present	tank	1000 gal.		pumped weekly

The inactive systems discharged to drain fields. System TA-35-14, -15, and -16 discharged to a drain field on the south rim. System TA-35-76 and -77 discharged to a drain field. The active systems, TA-35-44 and TA-35-65, are pumped weekly. TA-35-65 is pumped because its leach field is saturated. Tank TA-35-44 is believed to have gone to a distribution box, TA-35-45 [35-009(h)], before being pumped on a weekly schedule. TA-35-16 has been removed.

WASTE INFORMATION

The septic systems manage primarily sanitary waste. Some industrial waste may have been discharged to the tanks.

RELEASE INFORMATION

The presence and extent of contaminants in the drain fields is unknown.

35-010 SANITARY LAGOON AND SAND FILTER

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

This unit is three lagoons and four sand filters designed for biological treatment of liquid waste.

STRUCTURE	SWMU NO.	TYPE	DIMENSIONS	YEAR INSTALLED
TA-35-144	35-010(a)	lagoon	240' x 59'	1975
TA-35-145	35-010(b)	lagoon	100' x 115'	1975
TA-35-146	35-010(c)	lagoon	105' x 115'	1975
TA-35-215	35-010(d)	sand filter	100' x 45'	1980

The four sand filters are plastic lined. The lagoons and the sand filter are located in the canyon just east of TA-35. This information was abstracted from engineering records. The lagoons receive liquid waste from TA-50, TA-55, TA-48, and TA-35.

WASTE INFORMATION

Most of the waste is sanitary; however, some waste from photo processing and other industrial drains is present. In past years, small quantities of radionuclides, solvents, and other chemicals were present in the waste streams.

RELEASE INFORMATION

Liquids flow from the lagoons through the sand filter to a NPDES-permitted outfall (see Appendix A) in a tributary of Mortandad Canyon. The extent of any hazardous release, if any, is not known.

DRAFT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1983 - PRESENT

UNIT INFORMATION

Two storage tanks are located in the basement of TA-35-2 [35-011(a)]. The tanks hold about 1000 gallons each and are active. HSE-7 removes the liquid from the TA-35-2 tanks and transports the liquid to TA-50 for treatment. An underground storage tank [35-011(b)] of 10,000 gallon capacity is located on the west side of Building TA-35-85. Another tank [35-011(c)] is located on the east side of TA-35-125 (an aboveground tank is also associated with this system).

WASTE INFORMATION

The TA-35-2 tanks receive plutonium-contaminated solutions from activities in Building TA-35-2. The solutions probably include solvents and other chemicals. The waste in the 10,000 gallon tank consists of contaminated oil from TA-35-85. The TA-35-125 and the associated aboveground tank store hazardous waste.

RELEASE INFORMATION

There have been no known hazardous releases to the environment.

DRAFT

35-012 UNDERGROUND STORAGE TANK

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: UNKNOWN
PERIOD OF USE: EST. 1976 - 1985

UNIT INFORMATION

Underground storage tank TA-35-158 was located near the Chemical Laser Facility, TA-35-85. The tank had a capacity of 1000 gallons and was used to contain liquids from spills in TA-35-85. Engineering drawing ENG-R5117 indicates that the tank was removed in 1985, however, the tank may still be present.

WASTE INFORMATION

Waste oils and possibly solvents and chemicals are believed to have been in the liquid discharged to the tank.

RELEASE INFORMATION

It is unknown whether the tank leaked.

DRAFT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL/STORAGE
OPERATIONAL STATUS:
PERIOD OF USE: LATE 1970's-PRESENT

UNIT INFORMATION

Some liquid waste generated at TA-35 is stored in sumps prior to treatment. There are sumps [35-013(a)] located in the basement of TA-35-213. These sumps have capacities of 50-100 gallons. If the liquid in the sumps exceeds a standard for radioactivity the wastes are taken to TA-50 for treatment, otherwise, the wastes are discharged to the lagoons (see 35-010). Liquid wastes from TA-35-2 [35-013(b)] and TA-35-27 [35-013(c)] are collected in sumps located in the basement of each building. There are two sump pumps in TA-35-27 and one sump pump in TA-35-2. These wastes are also discharged to the TA-35 lagoon system. There are four sumps in the ground floor of TA-35-85 [35-013(d)]. The drains on the sumps are sealed and oil and grease now fill the sumps. The drains of these sumps are believed at one time to have gone to Tank TA-35-158.

WASTE INFORMATION

The wastes at TA-35-213 are sanitary and industrial with possible radionuclide contamination. Wastes collected in TA-35-2 and TA-35-27 are believed to be sanitary, but some industrial waste could be present and may include solvents and other chemicals and small quantities of radionuclides. TA-35-85 sumps currently hold oil and grease; substances discharged to these sumps previously are unknown.

RELEASE INFORMATION

The wastes from TA-35-213, -2, and -27 that do not go to TA-50 are discharged to the sanitary lagoon, sand filter, and outfall. Presently materials remain in the sumps at TA-35-85.

DRAFT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1950's - 1970's

UNIT INFORMATION

The soils at the east end of TA-35 have, in some places, above-background levels of radionuclides and perhaps other materials due to spills, air releases, and other routine releases which occurred during early operations at TA-35. High levels of tritium uptake have been measured in vegetation along the southwest area of TA-35-2. Additionally, a leaking drum was near TA-35-2. The drum has been removed.

WASTE INFORMATION

The wastes consist of radionuclides and possibly chemicals. The drum near TA-35-2 contained oil with 50.4 micrograms/gram of PCB in the oil.

RELEASE INFORMATION

The wastes may be undergoing mobilization by natural processes. The extent of contamination is unknown.

DRAFT

35-015 DECOMMISSIONED WASTE OIL TREATMENT

SUMMARY

LOCATION: TA-35
TYPE OF UNIT(s): RECYCLING UNIT
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: ?

UNIT INFORMATION

At one time a tank farm [35-015(a)] that included tanks TA-35-149, -150, -151, -152, -153, and -154, a grease trap, and oil treatment unit was used to treat waste oil. These have been removed. Another oil handling facility [35-015(b)] was located near TA-35-29 for treating oil from the Gemini System. This system has been removed.

WASTE INFORMATION

These units treated waste oil.

RELEASE INFORMATION

Spills from the tank farm were discharged to a storm sewer and into the canyon by TA-35-207. Impacts from this practice have not been assessed. Existing data verifies that there are no hazardous constituents in the oil at the tank farm or TA-35-29.

DRAFT

TA-35 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
35-001	35-1, 35-2
35-002	35-1, 35-2
35-003(a)	35-1
35-003(b)	35-1
35-003(c)	35-1
35-003(d)	35-2
35-003(e)	35-2
35-003(f)	35-2
35-003(g)	35-2
35-003(h)	35-2
35-003(i)	35-2
35-003(j)	Not shown, location unknown
35-003(k)	Not shown, location unknown
35-003(l)	35-2
35-003(m)	35-2
35-003(n)	35-1
35-003(p)	35-1
35-003(q)	35-2
35-004(a)	35-1
35-004(b)	35-1
35-004(c)	35-1
35-004(d)	35-1
35-004(e)	35-1
35-004(f)	35-1
35-004(g)	35-1
35-004(h)	35-2
35-004(i)	35-2
35-004(j)	35-1
35-005	35-1
35-006	35-1
35-007	35-1

DRAFT

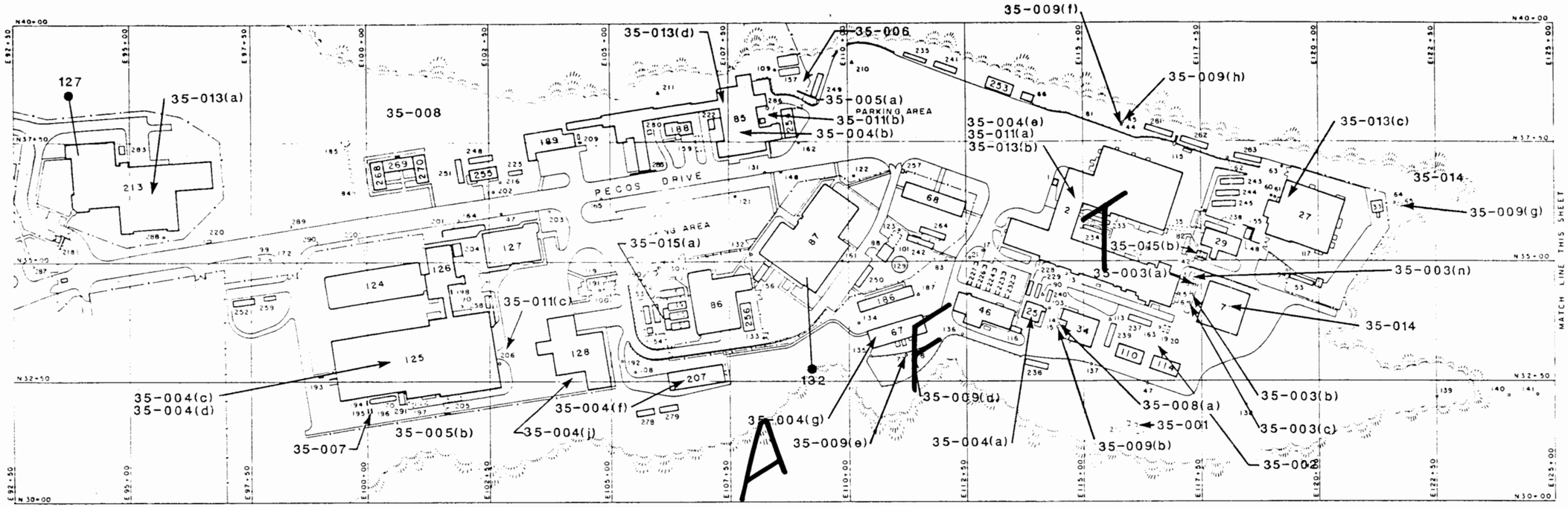
TA-35 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX (CONTINUED)

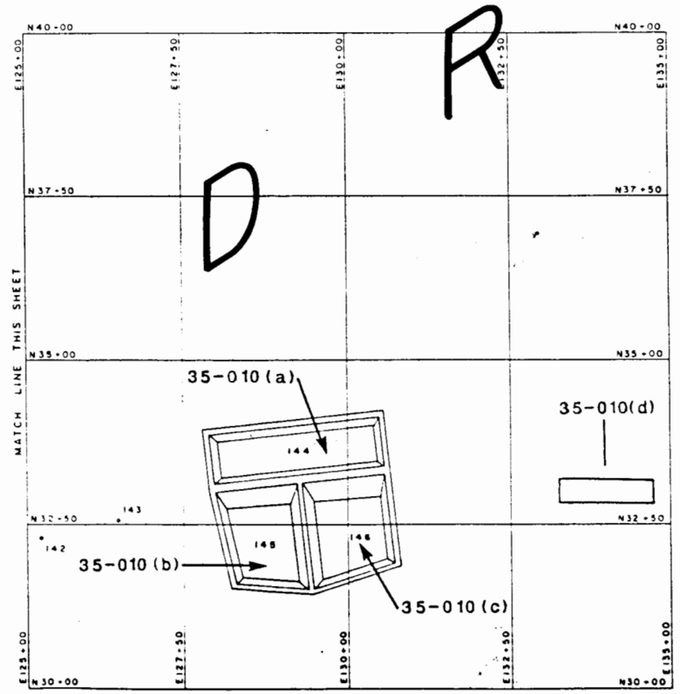
SWMU	FIGURE NUMBER
35-008	35-1
35-009(a)	35-1
35-009(b)	35-1
35-009(c)	35-2
35-009(d)	35-1
35-009(e)	35-1
35-009(f)	35-1
35-009(g)	35-1
35-009(h)	35-1
35-010(a)	35-1
35-010(b)	35-1
35-010(c)	35-1
35-010(d)	35-1
35-011(a)	35-1
35-011(b)	35-1
35-011(c)	35-1
35-012	Not shown, location unknown
35-013	35-1
35-014	35-1
35-015	35-1

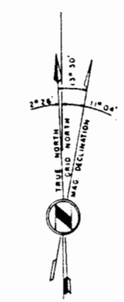
DRAFT

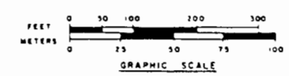
NOTE: Some structure locations contain more than one SWMU.

301215 02 01 B131









EXPLANATION

35-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

NOTE

35-005(a), 35-005(b), 35-006(c)
35-007, 35-008, 35-014, **35-011(c)**
APPROXIMATE LOCATIONS

FIGURE 35-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-35

REV	DATE	REVISION	BY	CKD	APP
23	7-25-86	REDRAWN & REVISED TO STATUS OF 6-11-86	ALC		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-35 TEN SITE

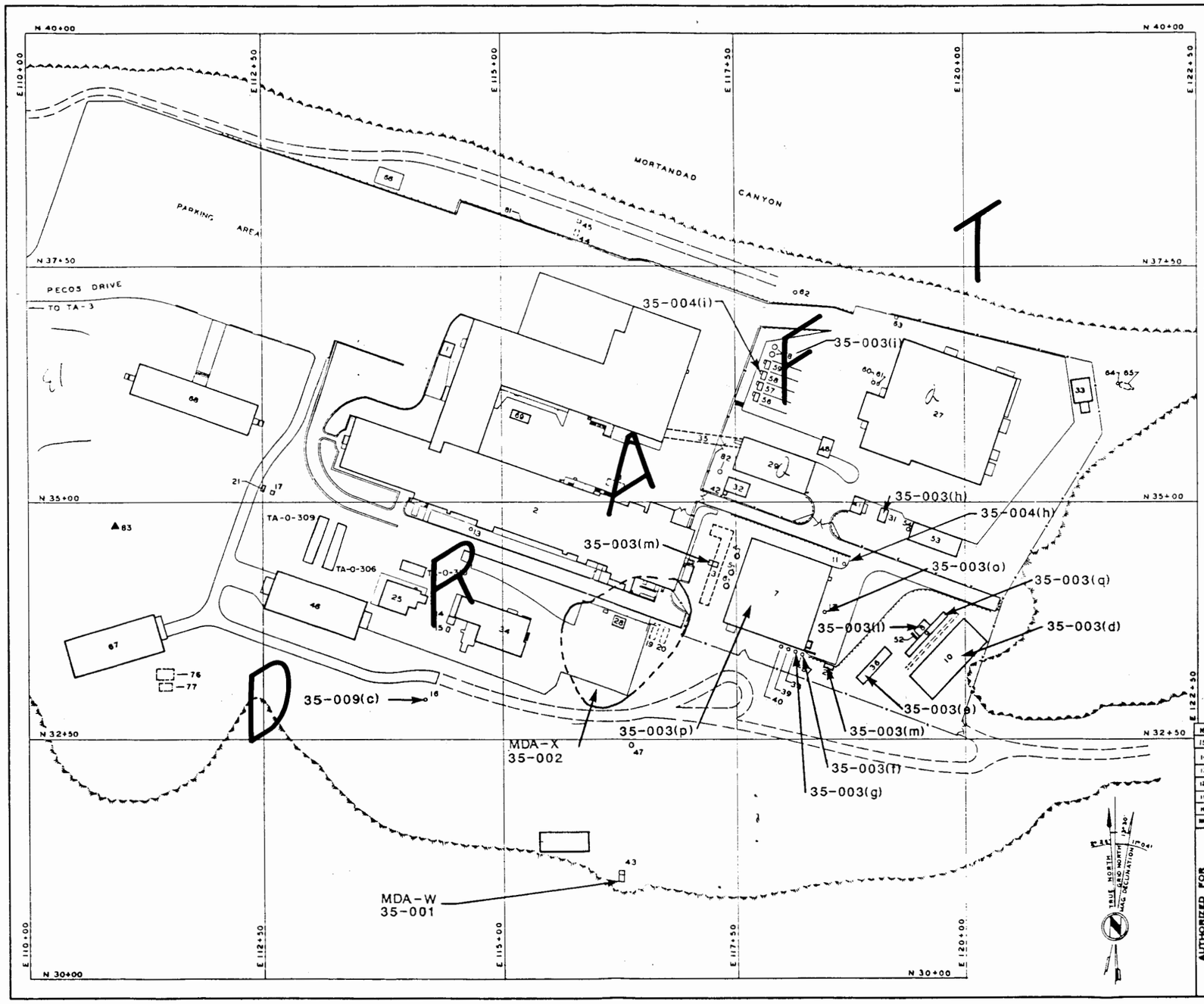
SEC. CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED; RECOMMENDED; APPROVED

DRAWN NB/AC; CHECKED; DATE 7-25-86; SHEET NO. 3 of 3; DRAWING NO. ENG-R5117

UNCLASSIFIED

301215 02 01 B135



UNCLASSIFIED

EXPLANATION

35-001 SWMU LOCATION

SCALE

FIGURE 35-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-35

NO.	DATE	REVISIONS	BY	CHECK	DRAWING LINK
16	9-19-72	REVISED TO STATUS OF 9-19-72	CRA		
15	2-28-72	REVISED TO STATUS OF 2-28-72	DAD		
14	9-12-68	REVISED TO STATUS OF 9-11-68	DAD		
13	1-15-68	REVISED TO STATUS OF 12-18-67			
12	10-28-65	REVISED TO STATUS OF 10-7-65	ERW		
11	3-3-64	REVISED TO STATUS OF 12-3-63	DLG		
10	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R155)	DLG		

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

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

STRUCTURE LOCATION PLAN
TA-35 TEN SITE

CHECKED: J. F. Shipman, PROJ. ENG.	RECOMMENDED: GROUP LEADER	APPROVED: ENG. DEPT. OFFICE
DESIGNER	DATE: 8-15-61	DRAWING NO. ENG-R 2462
DRAWN: D. GLASS	SHEET 2 OF 2	
SCALE: AS NOTED		

301215 02 01 B-6

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-35-1	TSL-1	GUARD HOUSE		N37+50 E115+00
TA-35-2	TSL-2	LABORATORY & OFFICE BLDG.		N35+00 E115+00
TA-35-3	TSL-3	PHASE SEPARATOR PIT	UNDERGROUND	N35+00 E117+50
TA-35-4	TSL-4	TANK, ACID HOLDING	UNDERGROUND	N35+00 E117+50
TA-35-5	TSL-5	TANK, ACID HOLDING	UNDERGROUND	N35+00 E117+50
TA-35-6	TSL-6	TANK, ACID HOLDING	UNDERGROUND	N35+00 E117+50
TA-35-7	TSL-7	AIR FILTER BUILDING		N35+00 E117+50
TA-35-8	TSL-8	PUMP PIT		N32+50 E120+00
TA-35-9	TSL-9	PIPE TRENCH		N32+50 E120+00
TA-35-10	TSL-10	CONCRETE TANK BUILDING		N32+50 E120+00
TA-35-11	TSL-11	MANHOLE	STORM DRAINAGE	N35+00 E117+50
TA-35-12	TSL-12	MANHOLE	WATER	N35+00 E117+50
TA-35-13	TSL-13	MANHOLE	SANITARY	N35+00 E115+00
TA-35-14	TSL-14	TANK	SEPTIC	N35+00 E115+00
TA-35-15	TSL-15	DOSING CHAMBER	SANITARY	N32+50 E115+00
TA-35-16	TSL-16	DISTRIBUTION BOX	SANITARY	N32+50 E115+00
TA-35-17	TSL-17	MANHOLE	WATER PRV	N35+00 E112+50
TA-35-18	TSL-18	TANK	FUEL, UNDERGROUND	N35+00 E115+00
TA-35-19	TSL-19	TANK	FUEL, UNDERGROUND	N32+50 E117+50
TA-35-20	TSL-20	TANK	FUEL, UNDERGROUND	N32+50 E117+50
TA-35-21	TSL-21	MANHOLE	GAS DRIP POT	N35+00 E112+50
TA-35-22	TSL-22	TANK	SLUDGE	N32+50 E117+50
TA-35-23	TSL-23		REMOVED 1957	
TA-35-24	TSL-24		CANCELLED	
TA-35-25	TSL-25	SODIUM BUILDING		N35+00 E115+00
TA-35-26	TSL-26	POWER REACTOR TEST BLDG.	INCORPORATED WITH TSL-2	N37+50 E115+00
TA-35-27	TSL-27	NUCLEAR SAFEGUARDS LAB.	WAS CORE TEST FACILITY	N35+00 E120+00
TA-35-28	TSL-28	PUMP PIT		N32+50 E117+50
TA-35-29	TSL-29	SMALL TEST PIT		N35+00 E117+50
TA-35-30	TSL-30		REMOVED 1967	
TA-35-31	TSL-31	TANK	RETENTION	N35+00 E120+00
TA-35-32	TSL-32	SUBSTATION		N35+00 E117+50
TA-35-33	TSL-33	COOLING TOWER		N35+00 E120+00
TA-35-34	TSL-34	SODIUM TEST BUILDING		N32+50 E115+00
TA-35-35	TSL-35	CONTROL TUNNEL	UNDERGROUND	N35+00 E117+50
TA-35-36	TSL-36	TANK, ACID	FORMERLY TA-21-161	N32+50 E120+00
TA-35-37	TSL-37	TANK	FLOCCULATOR	N32+50 E117+50
TA-35-38	TSL-38	TANK	REGENERANT	N32+50 E117+50
TA-35-39	TSL-39	TANK	ION	N32+50 E117+50
TA-35-40	TSL-40	TANK	ION	N32+50 E117+50
TA-35-41	TSL-41	CAUSTIC TREATER BLDG.		N35+00 E120+00
TA-35-42	TSL-42	MANHOLE	ELECTRICAL	N35+00 E117+50
TA-35-43	TSL-43	TANKS	SODIUM DISPOSAL	N30+00 E115+00
TA-35-44	TSL-44	TANK	SEPTIC	N37+50 E115+00
TA-35-45	TSL-45	DISTRIBUTION BOX	SANITARY	N37+50 E115+00
TA-35-46	TSL-46	REACTOR COMPONENT BLDG.		N35+00 E112+50
TA-35-47	TSL-47	MANHOLE	ELECTRICAL	N32+50 E117+50
TA-35-48	TSL-48	EXHAUST STACK		N35+00 E117+50
TA-35-49	TSL-49	STORAGE BUILDING, REMOVED, RELOCATED TO TA-3 NOW TA-3-1176		
TA-35-50	TSL-50		CANCELLED	
TA-35-51	TSL-51	ENG. FIELD OFFICE	REMOVED 1967	
TA-35-52	TSL-52	CONTROL PANEL		N32+50 E120+00
TA-35-53	TSL-53	SUBSTATION		N35+00 E120+00
TA-35-54	TSL-54	MANHOLE, ELECTRICAL		N35+00 E120+00
TA-35-55	TSL-55		REMOVED 1965	
TA-35-56	TSL-56	MANIFOLD		N35+00 E117+50
TA-35-57	TSL-57	MANIFOLD		N35+00 E117+50
TA-35-58	TSL-58	MANIFOLD		N37+50 E117+50
TA-35-59	TSL-59	MANIFOLD		N37+50 E117+50
TA-35-60	TSL-60	MANHOLE, SANITARY		N37+50 E120+00
TA-35-61	TSL-61	MANHOLE, ACID		N37+50 E120+00
TA-35-62	TSL-62	MANHOLE, ELECTRICAL		N37+50 E117+50
TA-35-63	TSL-63	MANHOLE, SANITARY		N37+50 E120+00
TA-35-64	TSL-64	MANHOLE, SANITARY		N35+00 E122+50
TA-35-65	TSL-65	TANK	SEPTIC	N35+00 E122+50
TA-35-66	TSL-66	SWITCHGEAR STATION		N37+50 E115+00
TA-35-67	TSL-67	WAREHOUSE		N32+50 E112+50
TA-35-68	TSL-68	OFFICE BUILDING		N35+00 E112+50
TA-35-69	TSL-69	OFFICE TRAILER		N35+00 E115+00
TA-35-70	TSL-70	OFFICE TRAILER	RENUMBERED TA-0-310	N35+00 E115+00
TA-35-71	TSL-71	OFFICE TRAILER, REMOVED, RELOCATED TO TA-53 NOW TA-0-299		
TA-35-72	TSL-72	OFFICE TRAILER, REMOVED, RELOCATED TO TA-53 NOW TA-0-298		
TA-35-73	TSL-73	OFFICE TRAILER, REMOVED, RELOCATED TO TA-53 NOW TA-0-297		
TA-35-74	TSL-74	OFFICE TRAILER,	REMOVED 1967	
TA-35-75	TSL-75	OFFICE TRAILER, REMOVED, RELOCATED TO TA-33 NOW TA-0-296		
TA-35-76	TSL-76	TANK	SEPTIC	N32+50 E112+50
TA-35-77	TSL-77	DISTRIBUTION BOX	SANITARY	N32+50 E112+50
TA-35-78	TSL-78	TANK	SURGE	N35+00 E117+50
TA-35-79	TSL-79	OFFICE TRAILER, REMOVED, RELOCATED TO TA-6 NOW TA-0-385		
TA-35-80	TSL-80	OFFICE TRAILER, REMOVED, RELOCATED TO TA-9 NOW TA-0-384		
TA-35-81	TSL-81	RETAINING WALL		N37+50 E115+00
TA-35-82	TSL-82	MANHOLE	ELECTRICAL	N37+00 E115+00
TA-35-83	TSL-83	TRANSFORMER STATION		N35+00 E110+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-306	ULR-306	TRAILER, OFFICE		N35+00 E112+50
TA-0-309	ULR-309	TRAILER, OFFICE		N35+00 E112+50
TA-0-310	ULR-310	TRAILER, OFFICE		N35+00 E115+00

FIGURE 35-3

TA-35 STRUCTURE LOCATION INDEX

REVIEWER Bill Parker

CLASS U DATE 2/29/72

UNCLASSIFIED

NO.	DATE	REVISIONS	BY	CHKD	DRN	ENG LEAD	ENG D.G.
15	19-9-72	REVISED TO STATUS OF 9-19-72	CRA				
14	12-28-72	REVISED TO STATUS OF 2-28-72	DAD				
13	18-12-68	REVISED TO STATUS OF 9-11-68	DAD				
12	111-11-65	REVISED TO STATUS OF 10-7-65	KRW				
11	13-3-64	REVISED TO STATUS OF 12-3-63	DLG				
10	16-13-61	REDRAWN TO STATUS OF 8-11-61 (WAS ENG-R 155)	CGL				

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

INDEX SHEET

STRUCTURE LOCATION PLAN

TA-35 TEN SITE

CHECKED PROJ. ENGR. | RECOMMENDED GROUP LEADER | APPROVED ENG DEPT OFFICE

DESIGNER | DATE 8-15-61 | DRAWING NO. ENG-R 2461

DRAWN LOGGAINS | SHEET 1 OF 2

SCALE NONE

301215 02 01 B30

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-35-1	TSL-1	GUARD HOUSE		N37+50 E115+00
TA-35-2	TSL-2	LABORATORY & OFFICE BUILDING		N35+00 E115+00
TA-35-3	TSL-3	PHASE SEPARATOR PIT	UNDERGROUND	N35+00 E117+50
TA-35-4	TSL-4	HOLDING TANK, ACID	UNDERGROUND	N35+00 E117+50
TA-35-5	TSL-5	HOLDING TANK, ACID	UNDERGROUND	N35+00 E117+50
TA-35-6	TSL-6	HOLDING TANK, ACID	UNDERGROUND	N35+00 E117+50
TA-35-7	TSL-7	AIR FILTER BUILDING		N35+00 E117+50
TA-35-8	TSL-8	PUMP PIT	REMOVED 1984	
TA-35-9	TSL-9	PIPE TRENCH	REMOVED 1984	
TA-35-10	TSL-10	CONCRETE TANK BUILDING	REMOVED 1984	
TA-35-11	TSL-11	MANHOLE, (CMP DRAIN)	REMOVED 1986	
TA-35-12	TSL-12	MANHOLE, WATER	REMOVED 1984	
TA-35-13	TSL-13	MANHOLE, SEWER		N35+00 E115+00
TA-35-14	TSL-14	SEPTIC TANK	ABANDONED 1975	N35+00 E115+00
TA-35-15	TSL-15	DOSING CHAMBER, SANITARY	ABANDONED 1975	N32+50 E115+00
TA-35-16	TSL-16	DISTRIBUTION BOX, SANITARY	REMOVED 1973	
TA-35-17	TSL-17	MANHOLE, PRV BOX, WATER		N35+00 E112+50
TA-35-18	TSL-18	DIESEL FUEL TANK	ABANDONED 1973	N35+00 E115+00
TA-35-19	TSL-19	FUEL OIL TANK	ABANDONED 1973	N32+50 E117+50
TA-35-20	TSL-20	FUEL OIL TANK	ABANDONED 1973	N32+50 E117+50
TA-35-21	TSL-21	MANHOLE, GAS DRIP POT		N35+00 E112+50
TA-35-22	TSL-22	SLUDGE TANK	REMOVED 1984	
TA-35-23	TSL-23	DISCHARGER	REMOVED 1957	
TA-35-24	TSL-24		CANCELLED	
TA-35-25	TSL-25	SODIUM BUILDING		N35+00 E115+00
TA-35-26	TSL-26	POWER REACTOR TEST BLDG	INCORPORATED WITH TSL-2	N37+50 E115+00
TA-35-27	TSL-27	NUCLEAR SAFEGUARDS RESEARCH LB	WAS CORE TEST FACILITY	N35+00 E120+00
TA-35-28	TSL-28	PUMP PIT	REMOVED 1965	
TA-35-29	TSL-29	GAS LASER BUILDING		N35+00 E117+50
TA-35-30	TSL-30	OFFICE BUILDING	RELOCATED TO TA-3-255	
TA-35-31	TSL-31	RETENTION TANK	REMOVED 1984	
TA-35-32	TSL-32	TRANSFORMER, SUBSTATION		N35+00 E117+50
TA-35-33	TSL-33	COOLING TOWER		N35+00 E120+00
TA-35-34	TSL-34	SODIUM TESTING BUILDING		N32+50 E115+00
TA-35-35	TSL-35	CONTROL TUNNEL	UNDERGROUND	N35+00 E117+50
TA-35-36	TSL-36	STORAGE TANK	REMOVED 1980	
TA-35-37	TSL-37	FLOCCULATOR TANK	REMOVED 1980	
TA-35-38	TSL-38	REGENERANT TANK	REMOVED 1980	
TA-35-39	TSL-39	ION TANK	REMOVED 1980	
TA-35-40	TSL-40	ION TANK	REMOVED 1980	
TA-35-41	TSL-41	CAUSTIC TREATER BUILDING	REMOVED 1984	
TA-35-42	TSL-42	MANHOLE, ELECTRICAL		N35+00 E117+50
TA-35-43	TSL-43	SODIUM DISPOSAL TANKS		N30+00 E115+00
TA-35-44	TSL-44	SEPTIC TANK		N37+50 E115+00
TA-35-45	TSL-45	DISTRIBUTION BOX, SANITARY		N37+50 E115+00
TA-35-46	TSL-46	REACTOR COMPONENTS DEV BLDG		N35+00 E112+50
TA-35-47	TSL-47	MANHOLE, ELECTRICAL	ABANDONED 1975	N32+50 E117+50
TA-35-48	TSL-48	EXHAUST STACK		N35+00 E117+50
TA-35-49	TSL-49	STORAGE BUILDING	RELOCATED TO TA-3-378	
TA-35-50	TSL-50		CANCELLED	
TA-35-51	TSL-51	ENG FIELD OFFICE	RELOCATED TO TA-0-189	
TA-35-52	TSL-52	CONTROL PANEL	REMOVED 1984	
TA-35-53	TSL-53	SUBSTATION, ELECTRICAL		N35+00 E120+00
TA-35-54	TSL-54	MANHOLE, ELECTRICAL		N35+00 E120+00
TA-35-55	TSL-55	RETAINING WALL		N35+00 E117+50
TA-35-56	TSL-56	MANIFOLD	REMOVED 1974	
TA-35-57	TSL-57	MANIFOLD	REMOVED 1974	
TA-35-58	TSL-58	MANIFOLD	REMOVED 1974	
TA-35-59	TSL-59	MANIFOLD	REMOVED 1974	
TA-35-60	TSL-60	MANHOLE, SANITARY SEWER		N37+50 E120+00
TA-35-61	TSL-61	MANHOLE, ACID SEWER VALVE		N37+50 E120+00
TA-35-62	TSL-62	MANHOLE, ELECTRICAL		N37+50 E117+50
TA-35-63	TSL-63	MANHOLE, SANITARY SEWER		N37+50 E120+00
TA-35-64	TSL-64	MANHOLE, SANITARY SEWER		N35+00 E122+50
TA-35-65	TSL-65	SEPTIC TANK, SANITARY SEWER		N35+00 E122+50
TA-35-66	TSL-66	SWITCHGEAR STATION		N37+50 E115+00
TA-35-67	TSL-67	WAREHOUSE		N32+50 E112+50
TA-35-68	TSL-68	OFFICE BUILDING		N35+00 E112+50
TA-35-69	TSL-69	OFFICE TRAILER	RELOCATED TO TA-0-300	
TA-35-70	TSL-70	OFFICE TRAILER	RELOCATED TO TA-0-310	
TA-35-71	TSL-71	OFFICE TRAILER	RELOCATED TO TA-0-299	
TA-35-72	TSL-72	OFFICE TRAILER	RELOCATED TO TA-0-298	
TA-35-73	TSL-73	OFFICE TRAILER	RELOCATED TO TA-0-297	
TA-35-74	TSL-74	OFFICE TRAILER	RELOCATED TO TA-0-455	
TA-35-75	TSL-75	OFFICE TRAILER	RELOCATED TO TA-0-296	
TA-35-76	TSL-76	TANK, SEPTIC	ABANDONED 1975	N32+50 E112+50
TA-35-77	TSL-77	DISTRIBUTION BOX	ABANDONED 1975	N32+50 E112+50
TA-35-78	TSL-78	SURGE TANKS	REMOVED 1976	
TA-35-79	TSL-79	OFFICE TRAILER	RELOCATED TO TA-0-385	
TA-35-80	TSL-80	OFFICE TRAILER	RELOCATED TO TA-0-384	
TA-35-81	TSL-81	RETAINING WALL		N37+50 E115+00
TA-35-82	TSL-82	MANHOLE, ELEC. PRIMARY		N35+00 E117+50
TA-35-83	TSL-83	TRANSFORMER STATION		N35+00 E112+50
TA-35-84	TSL-84		CANCELLED	
TA-35-85	TSL-85	CHEMICAL LASER FACILITY		N37+50 E107+50
TA-35-86	TSL-86	CO_2 LASER BUILDING		N35+00 E107+50
TA-35-87	TSL-87	LAB OFFICE BUILDING		N35+00 E110+00
TA-35-88	TSL-88	PUMP HOUSE		N35+00 E110+00
TA-35-89	TSL-89		CANCELLED	
TA-35-90	TSL-90	TRANSFORMER STATION		N35+00 E115+00
TA-35-91	TSL-91		CANCELLED	
TA-35-92	TSL-92		CANCELLED	
TA-35-93	TSL-93		CANCELLED	
TA-35-94	TSL-94		CANCELLED	
TA-35-95	TSL-95		CANCELLED	
TA-35-96	TSL-96	STORAGE TANK	REMOVED 1976	
TA-35-97	TSL-97	STORAGE TANK	REMOVED 1976	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-35-98	TSL-98		CANCELLED	
TA-35-99	TSL-99	TRANSFORMER STATION	NOT SHOWN-POLE MOUNTED	
TA-35-100	TSL-100	SUBSTATION, ELECTRICAL		N35+00 E105+00
TA-35-101	TSL-101	SUBSTATION, ELECTRICAL		N35+00 E110+00
TA-35-103	TSL-103	MANHOLE, STEAM		N35+00 E115+00
TA-35-104	TSL-104		CANCELLED	
TA-35-105	TSL-105		CANCELLED	
TA-35-106	TSL-106		CANCELLED	
TA-35-107	TSL-107		CANCELLED	
TA-35-108	TSL-108	MANHOLE, TELEPHONE		N32+50 E105+00
TA-35-109	TSL-109	MANHOLE, TELEPHONE		N40+00 E107+50
TA-35-110	TSL-110	TRANSPORTABLE OFFICE BLDG.		N32+00 E115+00
TA-35-111	TSL-111		CANCELLED	
TA-35-112	TSL-112		CANCELLED	
TA-35-113	TSL-113	TRANSFORMER STATION		N32+50 E115+00
TA-35-114	TSL-114	TRANSPORTABLE OFFICE BLDG		N32+50 E117+50
TA-35-115	TSL-115	SOLVENT STORAGE SHED		N37+50 E117+50
TA-35-116	TSL-116	CONCRETE PAD		N32+50 E112+50
TA-35-117	TSL-117	MANIFOLD		N35+00 E120+00
TA-35-118	TSL-118	MANHOLE, ELECTRICAL	REMOVED 1978	
TA-35-119	TSL-119	MANHOLE, ELECTRICAL		N35+00 E105+00
TA-35-120	TSL-120	MANHOLE, ELECTRICAL		N35+00 E105+00
TA-35-121	TSL-121	MANHOLE, ELECTRICAL		N37+50 E107+50
TA-35-122	TSL-122	MANHOLE, ELECTRICAL		N37+50 E110+00
TA-35-123	TSL-123	MANHOLE, ELECTRICAL		N35+00 E110+00
TA-35-124	TSL-124	TARGET BUILDING		N35+00 E100+00
TA-35-125	TSL-125	LASER BUILDING		N32+50 E100+00
TA-35-126	TSL-126	TRUCK ACCESS TUNNEL		N35+00 E102+50
TA-35-127	TSL-127	OFFICE BUILDING		N35+00 E102+50
TA-35-128	TSL-128	WAREHOUSE		N32+50 E105+00
TA-35-129	TSL-129	WATER STORAGE TANK		N35+00 E110+00
TA-35-130	TSL-130	RETAINING WALL		N35+00 E107+50
TA-35-131	TSL-131	MANHOLE, SANITARY SEWER		N37+50 E107+50
TA-35-132	TSL-132	MANHOLE, SANITARY SEWER		N35+00 E107+50
TA-35-133	TSL-133	MANHOLE, SANITARY SEWER		N32+50 E107+50
TA-35-134	TSL-134	MANHOLE, SANITARY SEWER		N32+50 E110+00
TA-35-135	TSL-135	MANHOLE, SANITARY SEWER		N32+50 E110+00
TA-35-136	TSL-136	MANHOLE, SANITARY SEWER		N32+50 E112+50
TA-35-137	TSL-137	MANHOLE, SANITARY SEWER		N32+50 E115+00
TA-35-138	TSL-138	MANHOLE, SANITARY SEWER		N32+50 E117+50
TA-35-139	TSL-139	MANHOLE, SANITARY SEWER		N32+50 E122+50
TA-35-140	TSL-140	MANHOLE, SANITARY SEWER		N32+50 E125+00
TA-35-141	TSL-141	MANHOLE SANITARY SEWER		N32+50 E125+00
TA-35-142	TSL-142	MANHOLE, SANITARY SEWER		N32+50 E125+00
TA-35-143	TSL-143	MANHOLE, SANITARY SEWER		N32+50 E127+50
TA-35-144	TSL-144	SEWAGE LAGOON		N32+50 E130+00
TA-35-145	TSL-145	SEWAGE LAGOON		N32+50 E127+50
TA-35-146	TSL-146	SEWAGE LAGOON		N32+50 E130+00
TA-35-147	TSL-147	MANHOLE, TELEPHONE		N35+00 E102+50
TA-35-148	TSL-149	MANHOLE, TELEPHONE		N37+50 E107+50
TA-35-149	TSL-149	SEIGE TANK		N35+00 E107+50
TA-35-150	TSL-150	SEIGE TANK		N35+00 E107+50
TA-35-151	TSL-151	SEIGE TANK		N32+50 E107+50
TA-35-152	TSL-152	SEIGE TANK		N32+50 E107+50
TA-35-153	TSL-153	SEIGE TANK		N35+00 E105+00
TA-35-154	TSL-154	OIL HOLDING TANK		N32+50 E105+00
TA-35-155	TSL-155	REFRIGERATOR COOLANT PAD		N35+00 E107+50
TA-35-156	TSL-156	REFRIGERATOR COOLANT PAD		N35+00 E107+50
TA-35-157	TSL-157	REFRIGERATOR COOLANT PAD		N37+50 E110+00
TA-35-158	TSL-158	ACID SEWER STORAGE TANK	REMOVED 1985	
TA-35-159	TSL-159	OIL STORAGE TANK	UNDERGROUND	N37+50 E107+50
TA-35-160	TSL-160	MANHOLE, ELECTRICAL		N35+00 E105+00
TA-35-161	TSL-161	MANHOLE, ELECTRICAL		N35+00 E110+00
TA-35-162	TSL-162	MANHOLE, ELECTRICAL		N37+50 E107+50
TA-35-163	TSL-163	MANHOLE, SANITARY SEWER		N32+50 E117+50
TA-35-164	TSL-164	MANHOLE, SANITARY SEWER		N35+00 E102+50
TA-35-165	TSL-165	MANHOLE, SANITARY SEWER		N37+50 E105+00
TA-35-166	TSL-166		CANCELLED	
TA-35-167	TSL-167		CANCELLED	
TA-35-168	TSL-168		CANCELLED	
TA-35-169	TSL-169		CANCELLED	
TA-35-170	TSL-170	LIQUID NITROGEN TANK		N32+50 E100+00
TA-35-171	TSL-171		CANCELLED	
TA-35-172	TSL-172	MANHOLE, TELEPHONE		N35+00 E97+50
TA-35-173	TSL-173		CANCELLED	
TA-35-174	TSL-174		CANCELLED	
TA-35-175	TSL-175		CANCELLED	
TA-35-176	TSL-176		CANCELLED	
TA-35-177	TSL-177		CANCELLED	
TA-35-178	TSL-178		CANCELLED	
TA-35-179	TSL-179		CANCELLED	
			CANCELLED	
			CANCELLED	
TA-35-184	TSL-184	FLIGHT MEASUREMENT LINE		N35+00 E100+00
TA-35-185	TSL-185	TIME OF FLIGHT SHED		N32+50 E97+50
TA-35-186	TSL-186	MODULAR OFFICE BUILDING		N35+00 E112+50
TA-35-187	TSL-187	TRANSFORMER STATION		N35+00 E112+50
TA-35-188	TSL-188	HIGH VOLT DEVELOPMENT LAB.		N37+50 E107+50
TA-35-189	TSL-189	OPTICS EVALUATION LAB		N37+50 E105+00
TA-35-190	TSL-190	MANHOLE, SANITARY SEWER		N35+00 E102+50
TA-35-191	TSL-191	MANHOLE, SANITARY SEWER		N35+00 E105+00
TA-35-192	TSL-192	MANHOLE, SANITARY SEWER		N32+50 E105+00
TA-35-193	TSL-193	TRAILER STATION		N32+50 E100+00
TA-35-194	TSL-194	TRAILER STATION		N32+50 E100+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-35-195	TSL-195	TRAILER STATION		N32+50 E100+00
TA-35-196	TSL-196	TRAILER STATION		N32+50 E100+00
TA-35-197	TSL-197	TANK, OIL U G		N32+50 E100+00
TA-35-198	TSL-198	TRAILER STATION		N35+00 E102+50
TA-35-199	TSL-199	MANHOLE, ELECTRICAL		N35+00 E97+50
TA-35-200	TSL-200	MANHOLE, ELECTRICAL		N35+00 E100+00
TA-35-201	TSL-201	MANHOLE, ELECTRICAL		N35+00 E102+50
TA-35-202	TSL-202	MANHOLE, TELEPHONE		N37+50 E102+50
TA-35-203	TSL-203	MANHOLE, ELECTRICAL		N35+00 E105+00
TA-35-204	TSL-204	SWITCH GEAR STATION		N35+00 E102+50
TA-35-205	TSL-205	SUBSTATION		N32+50 E102+50
TA-35-206	TSL-206	MANHOLE, ELECTRICAL		N32+50 E102+50
TA-35-207	TSL-207	EXPERIMENTAL SUPPORT LAB		N32+50 E107+50
TA-35-208	TSL-208		CANCELLED	N35+00 E97+50
TA-35-209	TSL-209	TRANSFORMER STATION		N35+00 E97+50
TA-35-210	TSL-210	TRANSFORMER STATION		N40+00 E110+00
TA-35-211	TSL-211	TRANSFORMER STATION		N37+50 E107+50
TA-35-212	TSL-212	STORAGE SHED		N30+00 E115+00
TA-35-213	TSL-213	TARGET FABRICATION BLDG.		N37+50 E95+00
TA-35-214	TSL-214		CANCELLED	
TA-35-216	TSL-216	MANHOLE, ELECTRICAL		N37+50 E102+50
TA-35-218	TSL-218	GUARD STATION		N35+00 E92+50
TA-35-220	TSL-220	GAS METERING STATION		N35+00 E97+50
TA-35-222	TSL-222	SUBSTATION, ELECTRICAL		N37+50 E107+50
TA-35-223	TSL-223	TRAILER, OFFICE	FORMERLY TA-0-306	N35+00 E112+50
TA-35-224	TSL-224	TRAILER, OFFICE	FORMERLY TA-0-309	N35+00 E112+50
TA-35-225	TSL-225	TRAILER, OFFICE	FORMERLY TA-0-445	N37+50 E102+50
TA-35-226	TSL-226	TRAILER, OFFICE	FORMERLY TA-0-514	N35+00 E112+50
TA-35-227	TSL-227	TRAILER, OFFICE	FORMERLY TA-0-515	N35+00 E112+50
TA-35-228	TSL-228	TRAILER, OFFICE	FORMERLY TA-0-517	N35+00 E112+50
TA-35-229	TSL-229	TRAILER, OFFICE	FORMERLY TA-0-518	N35+00 E112+50
TA-35-230	TSL-230		CANCELLED	
TA-35-231	TSL-231		RELOCATED TO TA-3-1538	
TA-35-232	TSL-232	TRAILER, OFFICE	FORMERLY TA-0-530	N35+00 E112+50
TA-35-233	TSL-233	TRAILER, OFFICE	FORMERLY TA-0-532	N35+00 E115+00
TA-35-234	TSL-234	TRAILER, OFFICE	FORMERLY TA-0-533	N35+00 E115+00
TA-35-235	TSL-235	TRAILER, OFFICE	FORMERLY TA-0-536	N40+00 E110+00
TA-35-236	TSL-236	TRAILER, OFFICE	FORMERLY TA-0-660	N32+50 E115+00
TA-35-237	TSL-237	TRAILER, OFFICE	FORMERLY TA-0-662	N32+50 E117+50
TA-35-238	TSL-238	TRAILER, DIAGNOSTIC	FORMERLY TA-0-668	N35+00 E117+50
TA-35-239	TSL-239	TRAILER, OFFICE	FORMERLY TA-0-669	N32+50 E115+00
TA-35-240	TSL-240	TRAILER, LABORATORY	FORMERLY TA-0-676	N35+00 E112+50
TA-35-241	TSL-241		CANCELLED	
TA-35-242	TSL-242	TRAILER, OFFICE	FORMERLY TA-0-696	N35+00 E112+50
TA-35-243	TSL-243	TRAILER, OFFICE	FORMERLY TA-0-699	N35+00 E117+50
TA-35-244	TSL-244	TRAILER, OFFICE	FORMERLY TA-0-700	N35+00 E117+50
TA-35-245	TSL-245	TRAILER, OFFICE	FORMERLY TA-0-701	N35+00 E117+50
TA-35-246	TSL-246	TRAILER, OFFICE	RELOCATED TO TA-55-108	
TA-35-247	TSL-247	TRAILER, OFFICE	RELOCATED TO TA-55-109	
TA-35-248	TSL-248	TRAILER, OFFICE	FORMERLY TA-0-717	N37+50 E102+50
TA-35-249	TSL-249	TRAILER, OFFICE	FORMERLY TA-0-718	N37+50 E110+00
TA-35-250	TSL-250	TRAILER, OFFICE	FORMERLY TA-0-722	N35+00 E110+00
TA-35-251	TSL-251	TRAILER, OFFICE	FORMERLY TA-0-724	N37+50 E102+50
TA-35-252	TSL-252	TRAILER, OFFICE	FORMERLY TA-0-741	N35+00 E97+50
TA-35-253	TSL-253	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1035	N37+50 E112+50
TA-35-254	TSL-254	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1042	N37+50 E110+00
TA-35-255	TSL-255	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1046	N37+50 E102+50
TA-35-256	TSL-256	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1047	N32+50 E107+50
TA-35-257	TSL-257	GUARD STATION		N37+50 E112+50
TA-35-258	TSL-258	TRAILER, OFFICE		N35+00 E102+50
TA-35-259	TSL-259	TRAILER, OFFICE	FORMERLY TA-0-748	N35+00 E97+50
TA-35-260	TSL-260	STORAGE SHED		N35+00 E92+50
TA-35-261	TSL-261	TRAILER, OFFICE		N37+50 E117+50
TA-35-262	TSL-262	TRAILER, OFFICE		N37+50 E117+50
TA-35-263	TSL-263	TRAILER, OFFICE		N37+50 E117+50
TA-35-264	TSL-264	TRAILER, OFFICE		N35+00 E112+50
TA-35-265	TSL-265	TRAILER POWER PEDESTAL		
TA-35-266	TSL-266	CONCRETE PAD		

FIGURE 35-4
TA-35 STRUCTURE LOCATION INDEX (1 OF 2)

REV	DATE	REVISION	BY	CKD	APP
22	7-25-86	REVISED AND ADDED NEW INDEX SHEET	ALC		
21	7-14-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-4-83	HS		

UNIVERSITY OF CALIFORNIA
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FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-35 TEN-SITE

SEC CLASSIFICATION — CLASS: U — REVIEWER: [signature] — DATE: 10-19-85

SUBMITTED: [signature] | RECOMMENDED: [signature] | APPROVED: [signature]
DRAWN: [signature] | CHECKED: [signature] | DATE: 7-14-83 | SHEET NO. 1 OF 3 | DRAWING NO. ENG-R5117

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301215 02 01 B31

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-35-267	TSL-267		CANCELLED	
TA-35-268	TSL-268	TRANSPORTABLE OFFICE BLDG		N37+50 E100+00
TA-35-269	TSL-269	TRANSPORTABLE OFFICE BLDG		N37+50 E100+00
TA-35-270	TSL-270	TRANSPORTABLE OFFICE BLDG		N37+50 E100+00
TA-35-271	TSL-271		CANCELLED	
TA-35-272	TSL-272		CANCELLED	
TA-35-273	TSL-273		CANCELLED	
TA-35-274	TSL-274			
TA-35-275	TSL-275		CANCELLED	
TA-35-276	TSL-276		CANCELLED	
TA-35-277	TSL-277		CANCELLED	
TA-35-278	TSL-278	SIEGE TANKS		N32+50 E105+00
TA-35-279	TSL-279	SIEGE TANKS		N32+50 E105+00
TA-35-280	TSL-280			
TA-35-281	TSL-281			
TA-35-282	TSL-282			
TA-35-283	TSL-283	STORAGE SHED		N37+50 E 95+00
TA-35-284	TSL-284			
TA-35-285	TSL-285	RETAINING WALL		N37+50 E105+00
TA-35-286	TSL-286	LASER GAS TANK		N27+50 E107+50
TA-35-287	TSL-287	MANHOLE, SANITARY	FORMERLY TA-50-43	N35+00 E 92+50
TA-35-288	TSL-288	MANHOLE, SANITARY	FORMERLY TA-50-43	N35+00 E 95+00
TA-35-289	TSL-289	MANHOLE, SANITARY	FORMERLY TA-50-43	N35+00 E 97+00
TA-35-290	TSL-290	MANHOLE, SANITARY	FORMERLY TA-50-45	N25+00 E100+00
TA-35-291	TSL-291	AIR COMPRESSOR BLDG.		N32+00 E100+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

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FIGURE 35-4
TA-35 STRUCTURE LOCATION INDEX
(2 OF 2)

REV.	DATE	REVISION	APP.
22	7-25-86	REVISED AND ADDED NEW INDEX SHEET	ALC

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LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN

SEC. CLASSIFICATION
CLASS: U
REVIEWER: RT
DATE: 28 JUL 86

TA-35 TEN-SITE

SUBMITTED
ENGINEER
APPROVED
DRAWN ANNABEL CLIFFORD
DATE 7-25-86
SHEET NO.
DRAWING NO. ENG-R5117
CHECKED

TA-36

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 36 is principally a firing site designed to study the phenomena associated with the detonation of high explosives. TA-36 encompasses several widely dispersed operational units connected by roads. Uranium has been used at the area, and other materials present include lead, zinc, barium, and beryllium (although berylium is currently not used).

TA-36 lies at elevations between 6,600 and 7,130 feet asl. Several operational units are located on several separate mesa tops between a major branch of Pajarito Canyon on the north and Water Canyon on the south. Potrillo Canyon and Fence Canyon dissect the area, as do several other, small, unnamed canyons. Other units are within Potrillo Canyon or branches of Fence Canyon. Canyon walls are steep in this area. TA-36 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine and Pinon-Juniper overstory vegetation zones. One unit lying to the west, near TA-15, is in the Shrub-Grass-Forb zone. In addition to steep, rock outcrop areas, two soil series are the major series present at TA-36. The Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit) includes shallow or very shallow (20 to 50 cm), well-drained soils typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy-Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr, from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event). The Nyjack loam series are moderately deep (50 to 102 cm), well-drained soils from from tuff on nearly level to gently sloping mesa tops. The available water holding capacity is medium, runoff is slow, permeability is moderate (1.6 to 5.0 cm/h), and water erosion is slight (0.0 to 0.13 cm, measured as the soil loss from bare soil exposed to the two-year, 30-minute precipitation event).

At TA-36, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,900 and 6,000 feet asl. There are over 700 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer (IT, 1987).

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): LANDFILL/SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

1) Material Disposal Area AA is located near TA-36-12 in an area of TA-36 termed "Lower Slobbovia". MDA-AA is shown on engineering drawings as consisting of three trenches. 2) However, since that time, it is believed that at least one more trench was excavated and covered in addition to the new active trench. The active trench is approximately 30' x 200' x 10' deep. The trench was used for burning HE-contaminated combustibles until 1988 and is now being used as a surface disposal area for potentially HE-contaminated material. 3) In addition to these trenches, there is mention of burning test items contaminated with uranium nearby in a burn pit. The ashes may have been burned in an adjacent area. The exact location for these disposal units is not known.

WASTE INFORMATION

The waste consists of potentially HE-contaminated combustibles, such as cables, and broken pieces of wooden tables. Very small quantities of depleted uranium may adhere to the combustibles and may be present in the ash. The ash from the burned test items would be expected to contain uranium and perhaps lead.

RELEASE INFORMATION

There are no known releases other than combustion products.

DRAFT

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1965 - PRESENT

UNIT INFORMATION

In previous years TA-36-48 was used as an assembly building. A sump, TA-36-49, receives liquid wastes from TA-36-48. The sump is 4' x 4' x 8' deep with a redwood cover.

WASTE INFORMATION

Small amounts of HE, acetone, zinc chloride, glue, and acids may have been in the liquid discharged to the sump. It is believed that the amount of liquid discharged has been very small.

RELEASE INFORMATION

It is unknown whether hazardous releases from the sump have occurred.

DRAFT

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Several septic systems are present in TA-36:

STRUCTURE	SWMU NO.	USE PERIOD	CAPACITY	OVERFLOW
TA-36-17	36-003(a)	1950 - present	1,360 gal	distribution box and seepage pit
TA-36-61	36-003(b)	1949 - present	420 gal	drain line
TA-36-70	36-003(c)	1985 - present	500 gal	seepage pit

Tank TA-36-61, formerly TA-15-67, serves the I-J firing site and Tank TA-36-70 serves a guard station.

WASTE INFORMATION

Sanitary waste and, in past years, potential laboratory wastes in TA-36-17 were discharged to the TA-36-17 seepage pit. Laboratory wastes may have included uranium, solvents, and spent photo liquids. Septic tanks TA-36-61 and TA-36-70 most likely receive only sanitary waste.

RELEASE INFORMATION

Contaminants in TA-36-17 may have been discharged to the associated seepage pit. It is unknown whether hazardous releases have occurred.

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1950 - PRESENT

UNIT INFORMATION

Several firing sites are located in TA-36. The CEARP identifies the following units: Eenie [36-004(a)], associated with Buildings 3 and 4; Meenie [36-004(b)], associated with Buildings 5 and 6; Minie [36-004(c)], associated with Buildings 7 and 8 and; Lower Slobbovia [36-004(d)], associated with Buildings 11 and 12; and I-J [36-004(e)], which was part of TA-15 until 1982, associated with Building 55 and associated trailers. A LANL employee also recalled the possibility of a few 500-lb test shots near the Moe site. A sled track is located at Lower Slobbovia, and at one time there was a drop tower there. In previous years, some firing areas have been used to burn or detonate scrap explosives. Detonators were disposed of by adding nitromethane and exploding the combination at Lower Slobbovia. Between March and October, 1959, 248 cans of detonators were destroyed.

WASTE INFORMATION

Materials used in the shots have included uranium, beryllium, lead, copper, iron, barium, aluminum, steel, and various plastics. (Beryllium has not been used since 1977.) Other types of explosives have included nitric acid, nitrobenzene, liquid cyanogen, and tetranitromethane.

RELEASE INFORMATION

Since the firing residues are exposed to the atmosphere they can be mobilized through natural processes such as precipitation and wind. In 1962, barium concentrations at the Meenie site ranged from 0.028-3.89 mg/g. A 1986 LANL report presents sample results for beryllium, lead, and mercury in water samples obtained from Fence Canyon at Meenie site. These were <50, <100, and <.02 micrograms/liter, respectively. Sediments showed concentrations of 2, 74, and <0.03 micrograms/liter, respectively. Searches of Lower Slobbovia have been made to recover any remaining intact detonators or explosive material. On these occasions only metal and plastic fragments were found. The HE material was not recovered.

DRAFT

36-005 BONEYARD

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

During 1987 CEARP field survey and in follow-up surveys, a large outdoor material storage area at Kappa Site was noted to be used for storage of iron and steel (which are in some cases contaminated with uranium) and other pieces of seldom-used material. In addition, cans marked isopentane and several unmarked drums and cylinders were noted. The RFA indicates that the boneyard is across the road from Bunker 7.

WASTE INFORMATION

Some of the debris consists of uranium-contaminated steel and iron. It is unknown what is in the unmarked drums and cylinders. A 1988 field survey reports isopentane in some of these containers. The boneyard stores lead and uranium-contaminated items.

RELEASE INFORMATION

Whether any soil contamination has resulted from the storage operation is not known.

DRAFT

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

Cables and similar residuals are reported to have been disposed of to the north of Eenie along the canyon [36-006(a)]. CEARP noted a surface disposal area [36-006(b)] on the mesa near lab coordinates E200+00, 585+00. This mesa area was recently field checked and was found to contain soil for fill and is, therefore, not a disposal area.

WASTE INFORMATION

The debris is solid waste. Hazardous constituents are unlikely.

RELEASE INFORMATION

There have been no known releases from these disposal areas.

DRAFT

36-007 WASTE EXPLOSIVE STORAGE

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Preparation buildings TA-36-4, -5, -7, and -11 [36-007(a), (b), (c), and (d)] are used to store small quantities of waste explosives for short periods. In many cases the material stored in these buildings is product HE stored for upcoming shots. Building TA-36-8 [36-007(e)] has a small area used for satellite storage of waste. Another active storage area is at the Minie Site [36-007(f)].

WASTE INFORMATION

The material stored is HE waste and product HE.

RELEASE INFORMATION

There have been no known hazardous releases. The waste HE not detonated is taken to TA-16 for burning, and the storage areas are inspected regularly by LANL staff.

DRAFT

36-008 WASTE EXLOSIVE TREATMENT

SUMMARY

LOCATION: TA-36
TYPE OF UNIT(s): OPEN DETONATION AREA
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

The Minie Site is used to detonate scrap HE.

WASTE INFORMATION

The waste is primarily HE.

RELEASE INFORMATION

There have been no known releases of hazardous waste from this practice.

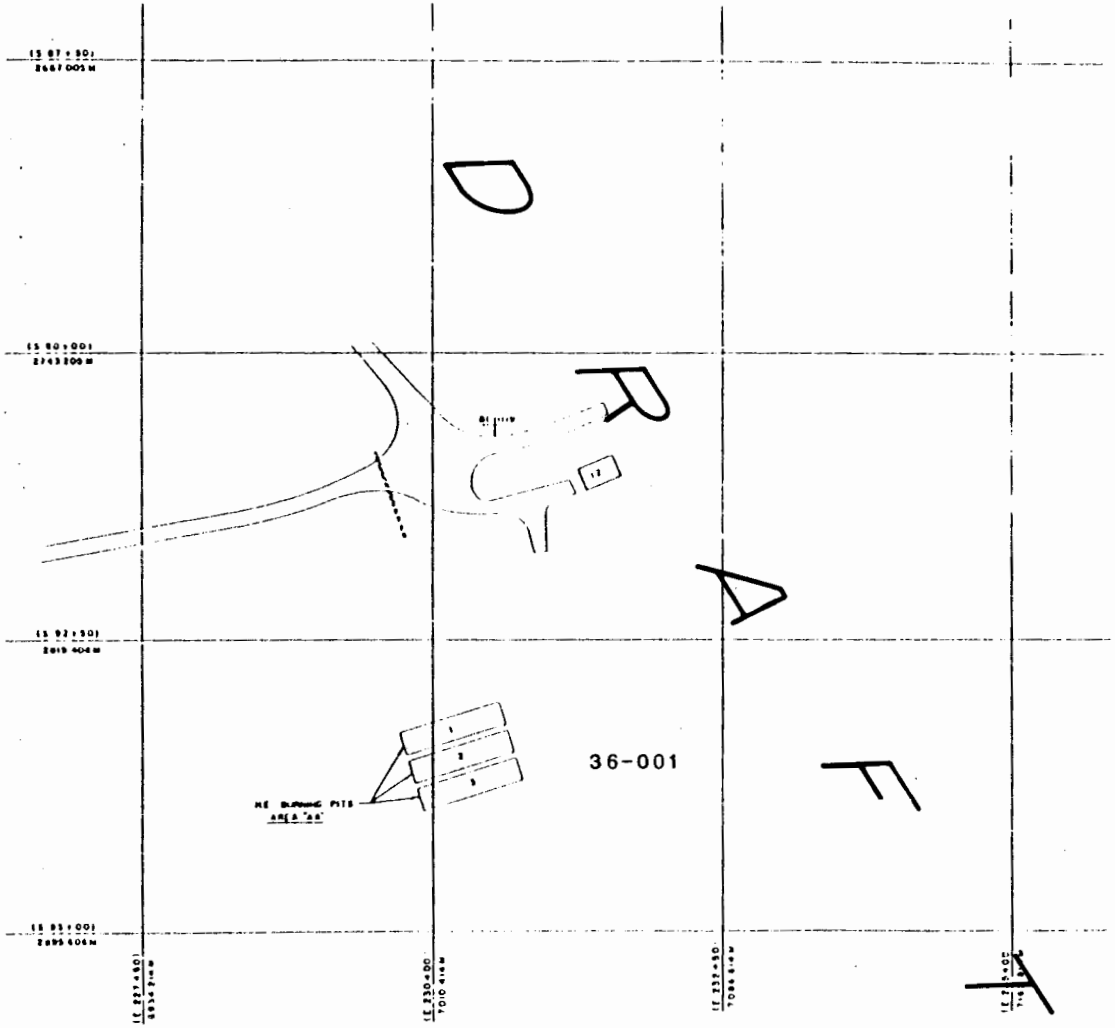
DRAFT

TA-36 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
36-001	36-1, 36-2
36-002	36-1, 36-3
36-003(a)	36-1, 36-3
36-003(b)	36-1
36-003(c)	36-1
36-004(a)	36-1
36-004(b)	36-1
36-004(c)	36-1
36-004(d)	36-1
36-004(e)	36-1
36-005	36-1
36-006(a)	36-1
36-006(b)	36-1
36-007(a)	36-1
36-007(b)	36-1
36-007(c)	36-1
36-007(d)	36-1
36-007(e)	36-1
36-007(f)	36-1
36-008	36-1

DRAFT

NOTE: Some structure locations contain more than one SWMU.



LOCATION PLAN

EXPLANATION

36-001 SWMU LOCATION

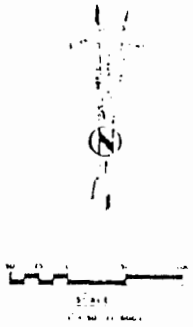


FIGURE 36-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-36

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

MATERIALS DISPOSAL AREA AA

AREA "AA"

Figure MDA-AA: Materials Disposal Area AA

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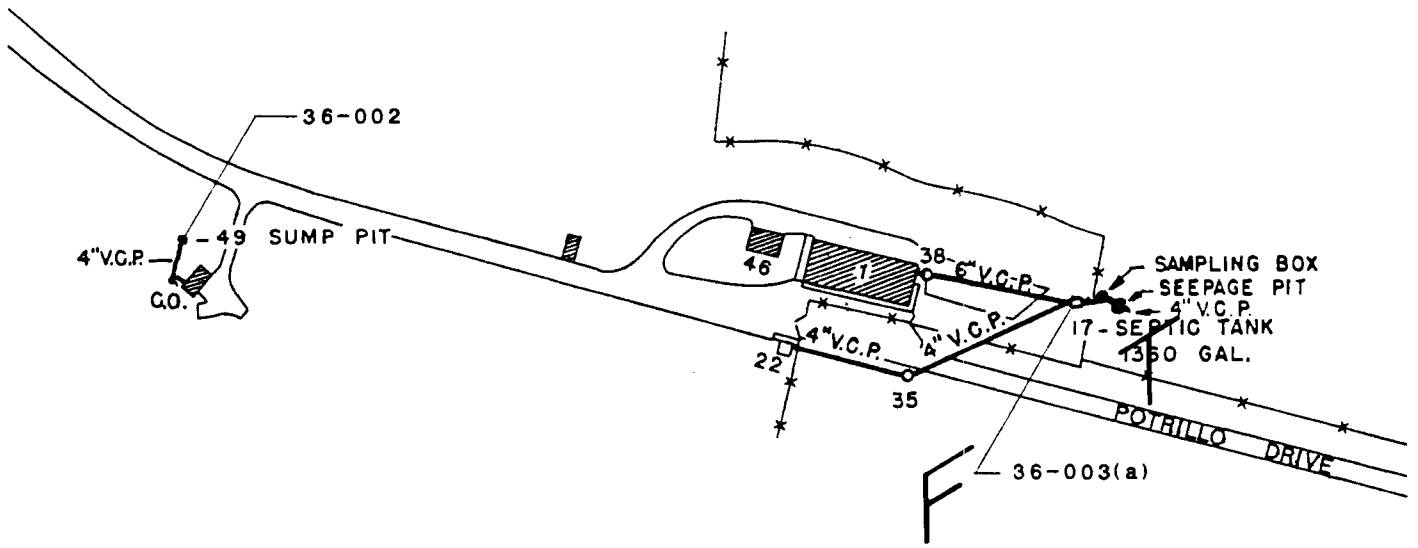
301215 02 01 2



TA-36

FROM THE ZIA COMPANY SEWER SYSTEM DRAWING S-2 OF E-3

EXPLANATION

36-001 SWMU LOCATION

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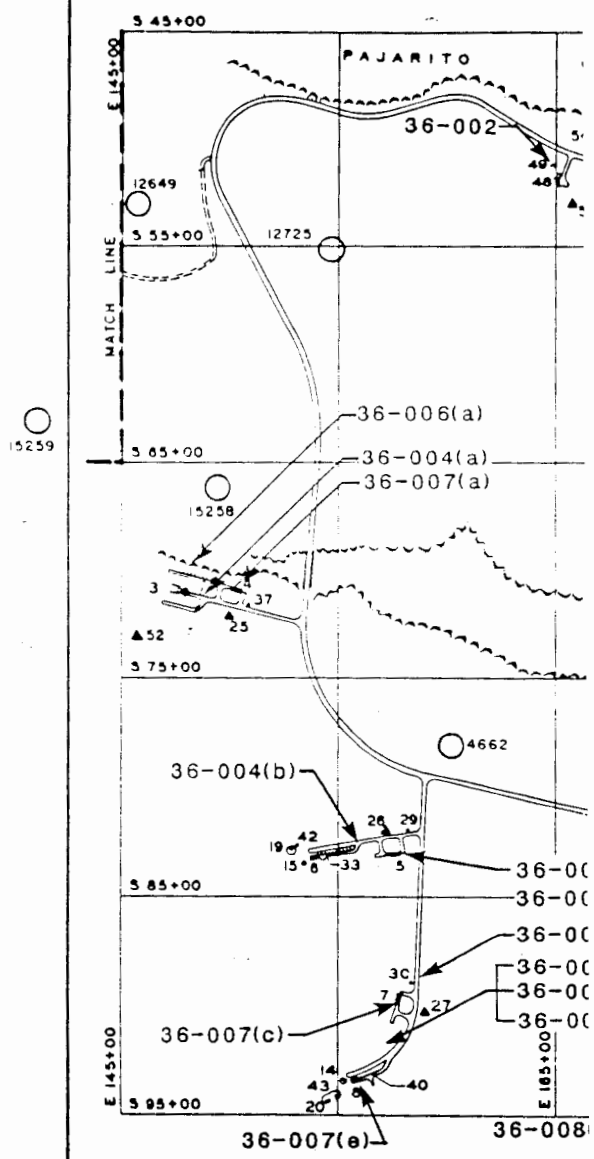
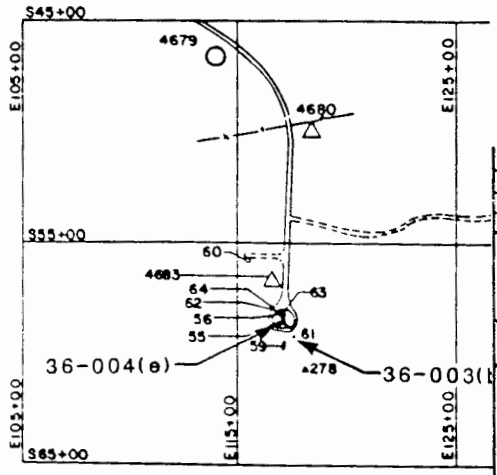
FIGURE 36-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-36

301215 02 01 B160





UNCLASSIFIED

EXPLANATION

36-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

FIGURE 36-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-36

REV	DATE	REVISION	BY	CKD	APP
17	8-9-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-8-83	HS		DR

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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-36 KAPPA SITE

SEC CLASSIFICATION: CLASS U
REVIEWER
DATE 9/6/83

SUBMITTED | RECOMMENDED | APPROVED

DRAWN | CHECKED | DATE 8-9-83 | SHEET NO. 2 of 2 | DRAWING NO ENG-R5118

DEC
1988

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Project No. 301215.02.01A
December 1988

Volume IV (TA-40 through TA-59)

Solid Waste Management Units Report

Los Alamos National Laboratory
Los Alamos, New Mexico

Los Alamos National Laboratory
Environmental Surveillance Group HSE-8
Los Alamos, New Mexico 87545

RESPONSIVE TO THE NEEDS OF ENVIRONMENTAL MANAGEMENT

TA-40

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 40 is principally a firing site. Support structures such as magazines, preparation buildings, laboratories, and offices are present in the area. Debris from detonations may be scattered as an old inactive detonator site was located here. The burning pit at TA-40 is no longer operational.

TA-40 lies at elevations between 7,300 and 7,420 feet asl. It is located on a narrow finger of Two Mile Mesa, which is bounded on the north by an unnamed branch of Two Mile Canyon and on the south by Pajarito Canyon. Canyon walls are steep or cliffs in this area.

TA-40 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zones. The major soil series at TA-40 is the Tocal very fine sandy loan series, shallow to very shallow (20 to 50 cm), well-drained soils that form on tuff on gentle to moderate slopes. The permeability is moderately slow (0.5 to 1.6 cm/h), and the available water-holding capacity is low. Runoff is medium (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute precipitation event on bare soil), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr, the potential soil loss from an unprotected surface).

At TA-40, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,100 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Septic Tank TA-40-22 [40-001(a)] is inactive, and apparently was used only during construction activities in 1950. Two active septic tanks, TA-40-24 and TA-40-25 were installed in 1950 and continue to operate, although the latter is used only infrequently. TA-40-24 [40-001(b)] serves 37 people, has a capacity of 1,215 gallons with overflow draining to a seepage pit. TA-40-25 [40-001(c)] has a capacity of 540 gallons and must be pumped when full (about every three months).

WASTE INFORMATION

The septic tanks receive sanitary and other liquid wastes from TA-40. Solvents and other chemicals from previous years are suspected.

RELEASE INFORMATION

There are no current releases associated with TA-40-22. It is not known whether TA-40-24 has discharged hazardous waste to its seepage pit. Engineering drawings show TA-40-25 as having a drain line, and it is not known if hazardous discharges have occurred.

DRAFT

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Active container storage areas in TA-40 include: a) A container storage area, located near TA-40-23, is approximately 15' long by 6' wide, and is underlain by asphalt. Wastes are stored here temporarily in two closed steel drums. Oils and solvents are stored in separate drums. The quantity of waste never exceeds 55 gallons total. b) Containers kept near the firing areas (see 40-006) are used to store shot wastes before they are taken to TA-16 for disposal. Separate containers are used for combustible and noncombustible debris.

WASTE INFORMATION

The waste stored in the area near TA-40-23 consists of oil and solvents which are stored separately. The waste is from various TA-40 operations, and it is ultimately sent to TA-54 prior to off-site shipment. The wastes stored near the firing areas consist of firing residues (eg., wood, metal, wire).

RELEASE INFORMATION

There are no known hazardous releases associated with this unit.

DRAFT

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): OTHER: OPEN DETONATION AREA
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's - 1970's

UNIT INFORMATION

This unit consists of two sites. One site [40-003(a)] is located about 450 feet east of TA-40-15. It was used for the disposal of scrap HE material and detonators. The site was later (in the 1960's) used for conducting burn and blast tests. This site is now inactive. A closure plan for this site has been submitted to NMEID. In 1958, there was at least one incident in which detonators were not destroyed and were discharged up to 100 yards away from the site. Search operations may have failed to recover all of the intact detonators. A burning site [40-003(b)] east of TA-40-15 and east of the detonator area was used for burning HE contaminated combustible materials. This site was used from 1961 to the 1970's.

WASTE INFORMATION

The waste at these sites contained HE material.

RELEASE INFORMATION

In 1985, samples were taken on the hillside above the scrap site [40-003(a)], approximately 100 ft. to the south, and also on the pad. Samples indicated nondetectable levels of arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Small pieces from detonators (nonhazardous) are visible on the surface at the site. It is unknown whether hazardous releases from the other site [40-003(b)] have occurred.

DRAFT

40-004 CONTAINER STORAGE AREA NEAR GAS GUN FACILITY

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: PRODUCTION
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1980's

UNIT INFORMATION

This unit was located near TA-40-9, outdoors, and was confined within a 15' by 15' area. It was used to store product chloroethane and vacuum pump oil.

WASTE INFORMATION

The products stored were chloroethane and vacuum pump oil.

RELEASE INFORMATION

Oil stains have been observed in the past; however all contaminated soil has been removed, placed in drums and disposed.

DRAFT

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EARLY 1950's-PRESENT

UNIT INFORMATION

Liquids which might contain small quantities of HE from Building TA-40-41 drain to this unit, which is a HE separation baffle-type sump outside the building. The sump is used only infrequently at present. The building and sump were part of TA-22 before being transferred to TA-40. The sump is concrete with a set-in aluminum tank. The dimensions of the sump are 4'6" x 6'4" x 5' deep. The sump is shown as TA-22-75 in engineering drawing C-22705 and ENG-R 5114 (Figure 40-1).

WASTE INFORMATION

The waste consists of liquids contaminated with HE that may contain barium. In past years solvents may have been present.

RELEASE INFORMATION

The sump has an outfall which drains to a small tributary of Pajarito Canyon. The LANL standard operating procedures (WX-3 SOP 12.1.0 and 12.1.4) call for the sludges in HE settling tanks to be picked up on request and transported to TA-16 for treatment and burning.

DRAFT

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

Three outside firing pads are used at TA-40 for HE detonation experiments. TA-40-15 [40-006(a)] is the largest, and has an iron wall and firing bunker on two sides of the pad to provide some confinement of shot debris. After firing, the sand and very small pieces of shot debris are leveled. Some of the residues from firing would be pushed over the canyon rim. Over the years, a bench about 15' high has been created by sand and residuals on the side of the canyon. The other two firing pads, TA-40-8 [40-006(b)] and TA-40-5 [40-006(c)], are smaller and have smaller benches associated with them.

WASTE INFORMATION

Bench residues consist of sand with fragments of glass, metal, cables, wood, and occasionally small pieces of HE. In the past, shot constituents included thallium oxide, lead oxide, ClF3, and diethanol. Large pieces of shot residuals are picked up after firing.

RELEASE INFORMATION

Shot residue and other items are found on the south-facing slope of the canyon adjacent to the firing sites.

DRAFT

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950 - 1980's

UNIT INFORMATION

Some bunkers, TA-40-3, -6, -11, -14, and a bunker with former designation TA-22-41 [40-007(a), (b), (c), (d), (e), respectively] are believed to have been used for very short periods of time to store scrap HE contaminated waste. The RFA describes one 10' x 6' x 7' high concrete structure, underlain by concrete, used for storage of scrap detonators. This particular unit was taken out of service for scrap material in 1985.

WASTE INFORMATION

The RFA describes the waste as detonators, live charges, and HE. Currently the HE is reused and is no longer considered waste.

RELEASE INFORMATION

There are no known releases associated with these storage areas.

DRAFT

40-008 DECOMMISSIONED HE STORAGE

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. ? - 1988

UNIT INFORMATION

A bunker, TA-40-2, was used for a short time to store scrap HE contaminated waste. This storage area has been closed under an approved closure plan.

WASTE INFORMATION

The waste was scrap HE.

RELEASE INFORMATION

There is no known release of hazardous waste from this decommissioned storage area.

DRAFT

SUMMARY

LOCATION: TA-40
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1967

UNIT INFORMATION

In 1967, a major decommissioning effort was undertaken at TA-15. Several structures were burned. After monitoring the remaining noncombustibles for radioactivity, according to engineering records, the debris was taken to TA-40 and disposed of in the canyon between TA-40-15 and TA-40-5.

WASTE INFORMATION

The wastes were noncombustible residues. There is no record that samples were analyzed for hazardous constituents. The waste did not contain radioactive constituents.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred. The debris was not sampled for hazardous constituents.

DRAFT

TA-40 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
40-001(a)	40-1
40-001(b)	40-1
40-001(c)	40-1
40-002(a)	40-1
40-002(b)	40-1
40-003(a)	40-1
40-003(b)	40-1
40-004	40-1
40-005	40-3
40-006(a)	40-1
40-006(b)	40-1
40-006(c)	40-1
40-007(a)	40-1
40-007(b)	40-1
40-007(c)	40-1
40-007(d)	40-1
40-007(e)	40-3
40-008	40-1
40-009	40-1

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

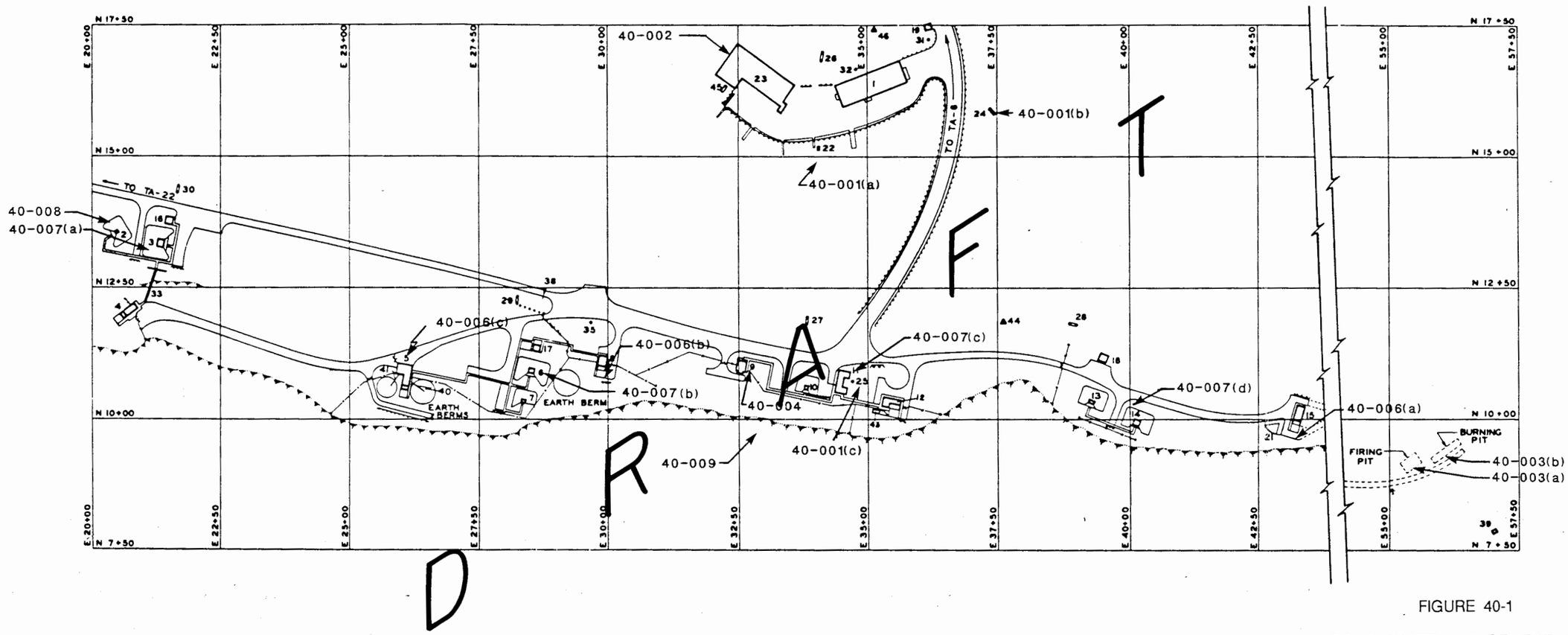

FIGURE 40-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-40

EXPLANATION

40-001 SWMU LOCATION

1" = 100'

GRAPHIC SCALE

NOTES

UNIT 40-005: UNIT WAS FORMERLY TA-22-41, LOCATED ON THE TA-22 STRUCTURE LOCATION PLAN

UNIT 40-009: UNIT LOCATION IS APPROXIMATE

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
6	7-28-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	H.S.		

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Los Alamos, New Mexico 87545

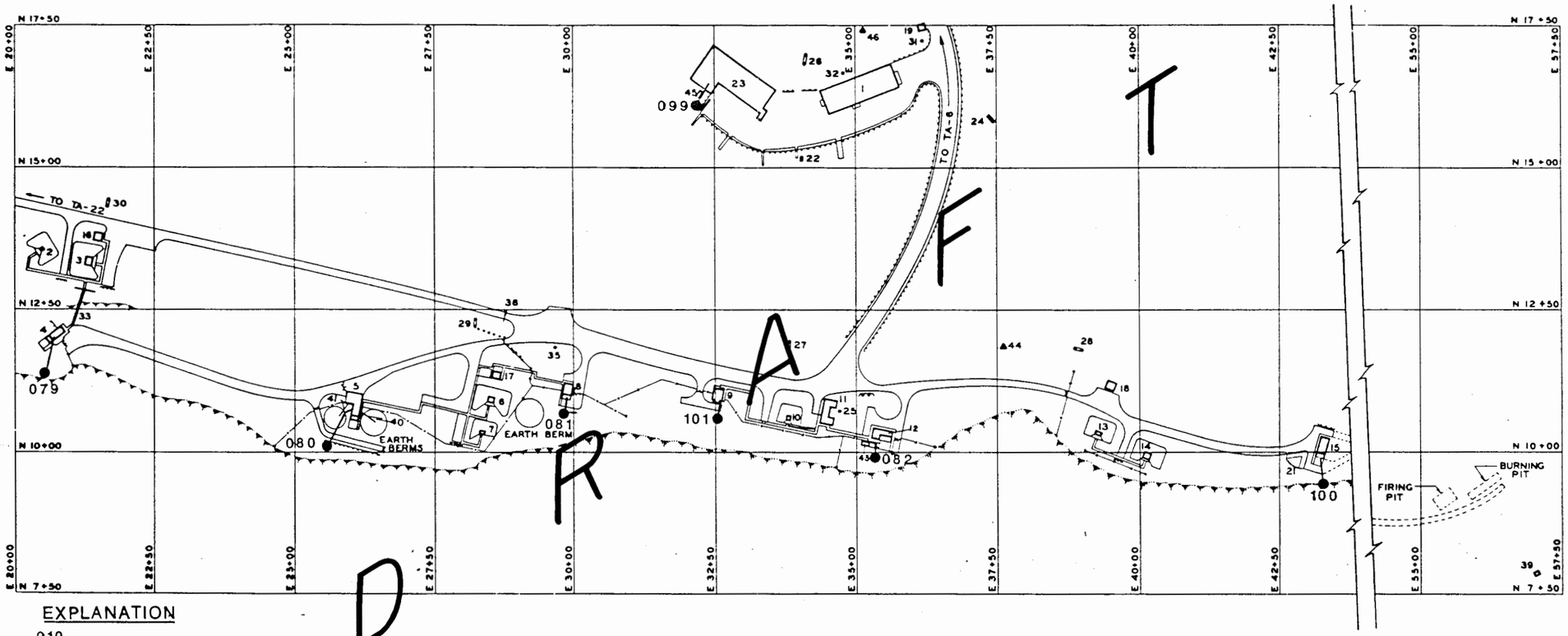
FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-40 DF-SITE

SEC. CLASSIFICATION: CLASS. U; REVIEWER; DATE 9-23-83

DRAWN; CHECKED; RECOMMENDED; APPROVED; DATE 7-28-83; SHEET NO. 2 OF 2; DRAWING NO. ENG-R521

301215 02 01 B67



DRAFT

EXPLANATION

010
LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBER (SEE APPENDIX A)

FIGURE 40-2

OUTFALL LOCATIONS IN TA-40

1" = 100'

GRAPHIC SCALE

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
16	7-28-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	H.S.		

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FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-40 DF-SITE

SEC CLASSIFICATION
CLASS: U
REVIEWER:
DATE: 4-25-83

SUBMITTED: D. J. Byers
RECOMMENDED: Dennis Rox
APPROVED: W. T. Elliott

DRAWN: Hal Sisson
CHECKED:
DATE: 7-28-83
SHEET NO. 2 OF 2
DRAWING NO. ENG-R5121

301215 02 01 B172

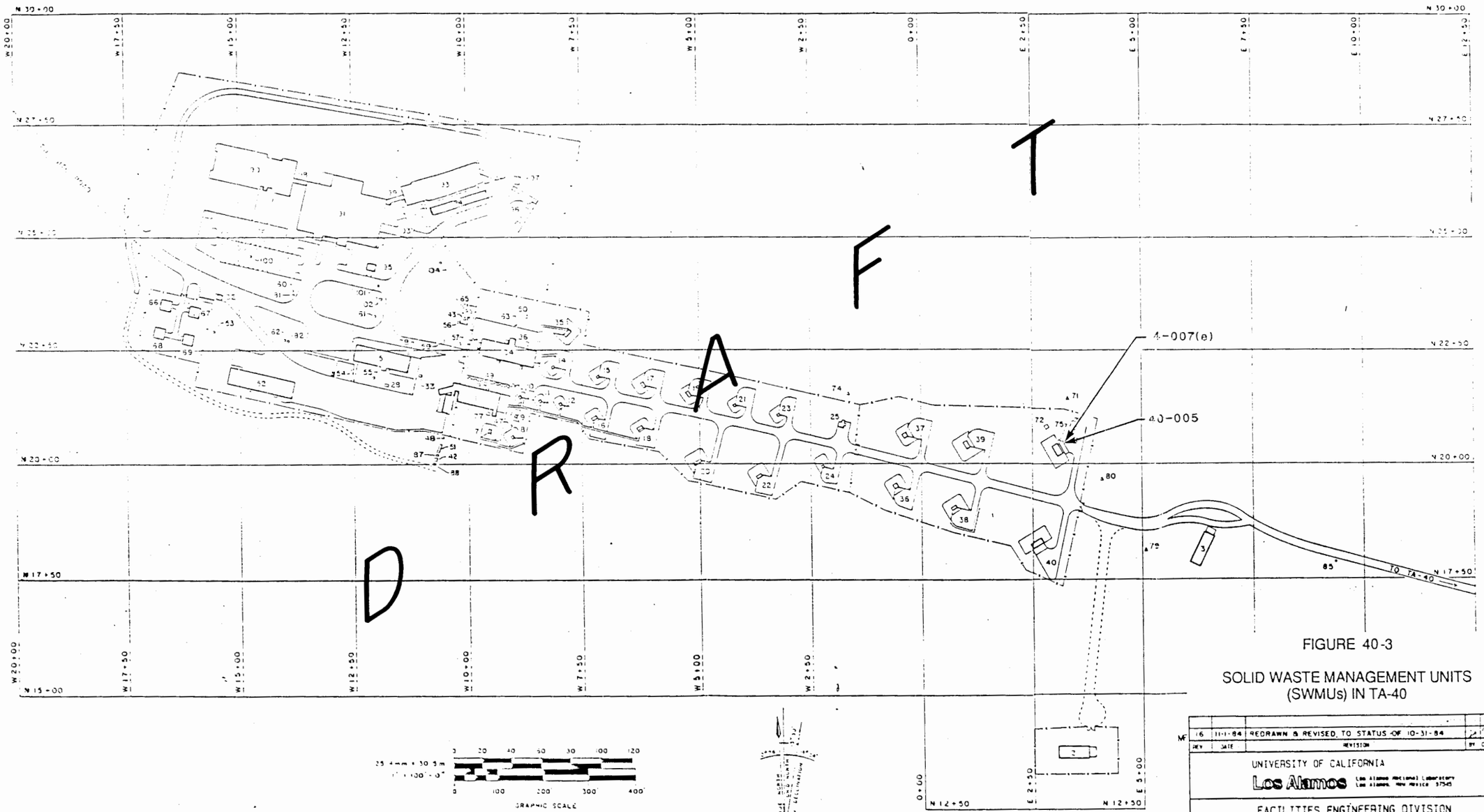

FIGURE 40-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-40

GRAPHIC SCALE

EXPLANATION

40-001 SWMU LOCATION

UNCLASSIFIED

REV	DATE	REVISION	BY	CKD
16	11-1-84	REDRAWN & REVISED, TO STATUS OF 10-31-84		

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Los Alamos

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-22 TD-SITE

SEC CLASSIFICATION

CLASS

REVIEWER

DATE

SUBMITTED

RECOMMENDED

APPROVED

DRAWN

CHECKED

DATE 11-1-84

SHEET NO. 2 of 2

DRAWING NO. ENG-R 5114

301215 02 01 B35

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-40-1	DF-1	LABORATORY & OFFICE BLDG		N 17+50 E 35+00
TA-40-2	DF-2	MAGAZINE		N 12+50 E 20+00
TA-40-3	DF-3	PREPARATION BUILDING		N 12+50 E 22+50
TA-40-4	DF-4	FIRING POINT		N 12+50 E 20+00
TA-40-5	DF-5	FIRING POINT		N 10+00 E 25+00
TA-40-6	DF-6	PREPARATION BUILDING		N 10+00 E 27+50
TA-40-7	DF-7	MAGAZINE		N 10+00 E 27+50
TA-40-8	DF-8	FIRING POINT		N 10+00 E 30+00
TA-40-9	DF-9	FIRING POINT		N 10+00 E 32+50
TA-40-10	DF-10	MAGAZINE		N 10+00 E 32+50
TA-40-11	DF-11	PREPARATION & UTILITY BLDG		N 10+00 E 35+00
TA-40-12	DF-12	FIRING POINT		N 10+00 E 35+00
TA-40-13	DF-13	MAGAZINE		N 10+00 E 40+00
TA-40-14	DF-14	PREPARATION BUILDING		N 10+00 E 40+00
TA-40-15	DF-15	FIRING POINT		N 10+00 E 42+50
TA-40-16	DF-16	UTILITY BUILDING		N 12+50 E 22+50
TA-40-17	DF-17	UTILITY BUILDING		N 12+50 E 27+50
TA-40-18	DF-18	UTILITY BUILDING		N 12+50 E 40+00
TA-40-19	DF-19	GUARD HOUSE		N 17+50 E 35+00
TA-40-20	DF-20	TANK, FUEL	RELOCATED TO TA-9-103	
TA-40-21	DF-21	MISSILE BARRICADE		N 10+00 E 42+50
TA-40-22	DF-22	TANK, SEPTIC		N 15+00 E 35+00
TA-40-23	DF-23	WHSE. & CABLE ASSY. BLDG.		N 17+50 E 32+50
TA-40-24	DF-24	TANK, SEPTIC		N 15+00 E 37+50
TA-40-25	DF-25	TANK, SEPTIC		N 10+00 E 35+00
TA-40-26	DF-26	TRANSFORMER STATION		N 17+50 E 35+00
TA-40-27	DF-27	TRANSFORMER STATION		N 12+50 E 35+00
TA-40-28	DF-28	TRANSFORMER STATION		N 12+50 E 40+00
TA-40-29	DF-29	TRANSFORMER STATION		N 12+50 E 27+50
TA-40-30	DF-30	TRANSFORMER STATION		N 15+00 E 22+50
TA-40-31	DF-31	MANHOLE, SANITARY		N 17+50 E 35+00
TA-40-32	DF-32	MANHOLE, SANITARY		N 17+50 E 35+00
TA-40-33	DF-33	STAIRWAY		N 12+50 E 20+00
TA-40-34	DF-34		REMOVED 1961	
TA-40-35	DF-35	MANHOLE, WATER		N 12+50 E 30+00
TA-40-36	DF-36		REMOVED 1979	
TA-40-37	DF-37		CANCELLED	
TA-40-38	DF-38	ROAD BLOCK	FORMERLY TA-14-33	N 12+50 E 27+50
TA-40-39	DF-39	OBSERVATION BARRICADE		N 7+50 E 57+50
TA-40-40	DF-40	BARRICADE		N 10+00 E 25+00
TA-40-41	DF-41	BARRICADE		N 10+00 E 25+00
TA-40-42	DF-42		CANCELLED	
TA-40-43	DF-43	STORAGE BLDG		N 10+00 E 35+00
TA-40-44	DF-44	TRANSFORMER STATION		N 12+50 E 37+50
TA-40-45	DF-45	SOLVENT SHED		N 17+50 E 32+50
TA-40-46	DF-46	TRANSFORMER STATION		N 17+50 E 35+00
TA-40-47	DF-47	METERING STATION	1-SPAN N. OF DF-26 ~ 150'	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

DECLASSIFIED

FIGURE 40-4

TA-40 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
16	8-16-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-26-83	W.S.		

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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-40 DF-SITE

SEE CLASSIFICATION
CLASS: U
REVIEWED:
DATE:

SUBMITTED: Dale Byers
RECOMMENDED: Dennis Ross
APPROVED: W.T. Elmore

DRAWN: Wendy Tamayo
CHECKED:
DATE: 8-16-83
SHEET NO. 1 OF 2
DRAWING NO. ENG-R 5121

TA-41

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 41 is used in developing weapon subsystems, boosting systems, and long-term studies on critical weapons subsystems. Materials on site include uranium, plutonium, tritium, lithium isotopes, mercury, beryllium, lead and cadmium for shielding, nickel-cadmium and mercury batteries, explosives, and thermite type heat generators. There are also office space and photographic laboratory facilities in the area. Formerly, operations required use of radioactive materials, toxic gases, mercury, and various organic chemicals.

TA-41 lies at elevations between about 6,830 and 6,880 feet asl. It is located within Los Alamos Canyon. Stream flow in Los Alamos Canyon is intermittent, although a perennial base flow occurs in the upper reaches of the canyon. Evaporation and infiltration prevent natural base flow through the Laboratory property, however, outfalls of waste water from laboratory technical areas result in a perennial flow in Los Alamos Canyon for those regions.

The soil at TA-41 is described as Typic Ustorthents-Rock outcrop complex (soil and rock combined as a mapping unit). The Typic Ustorthents soils are thick (>155 cm), well-drained soils. It is typical of very steep mountain sideslopes. The soil is moderately to very rapidly permeable (1.6 to 16 cm/h) and has a very low water holding capacity.

Because TA-41 lies within the Canyon itself, flooding has been investigated as a potential environmental problem. The characteristics of the drainage basin indicate that a 100-year flood would result in flow of 25 cubic meters per second (870 cubic feet per second). A 500-year flood event would produce about 37 cubic meters per second (1,290 cubic feet per second). The channel at TA-41 is capable of carrying a maximum flow of 46 cubic meters per second (1,600 cubic feet per second). Flooding of parking lots and roadways may occur in such an event only if the channel were to become clogged with debris. Flooding of permanent buildings is unlikely (DOE, 1979).

Flooding of TA-41 by failure of the Los Alamos Canyon Reservoir Dam is unlikely assuming complete drainage in 45 minutes (15 minutes to crest, and 30 minutes recession).

At TA-41, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,000 feet asl. There are over 800 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

SUMMARY

LOCATION: TA-41
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1949 - 1953

UNIT INFORMATION

Septic Tank TA-41-11 appears from an engineering drawing to be connected to Building 2, a guardhouse. The tank was abandoned in 1953.

WASTE INFORMATION

The tank received sanitary waste. The tank is noted to be radioactively contaminated in one report; however, there are no known discharges to this tank which could account for radioactive material in the system.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from this unit.

DRAFT

SUMMARY

LOCATION: TA-41
TYPE OF UNIT(s): WASTEWATER TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1950 - PRESENT

UNIT INFORMATION

The components of the TA-41 sewage treatment plant consist of an Imhoff tank and a 10' x 8' x 10' chlorinator, TA-41-7 [41-002(a)]; a contact tank, TA-41-8 [41-002(b)]; and a sludge drying bed, TA-41-9 [41-002(c)]. This small treatment plant has received sanitary waste from TA-41 and TA-2. Presently these wastes are pumped to TA-3 for treatment. The treatment plant has been retained as a standby unit for use in the event of a lift pump failure. The sewage treatment plant discharges to a NPDES permitted outfall (NPDES #SSS 06s; Appendix A).

WASTE INFORMATION

The treatment plant, when active, treats sanitary waste. In previous years, the waste may have contained radioactive mixed constituents.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred.

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TA-41 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
41-001	41-1
41-002(a)	41-1, 41-2
41-002(b)	41-1, 41-2
41-002(c)	41-1, 41-2

NOTE: Some structure locations may contain more than one SWMU.

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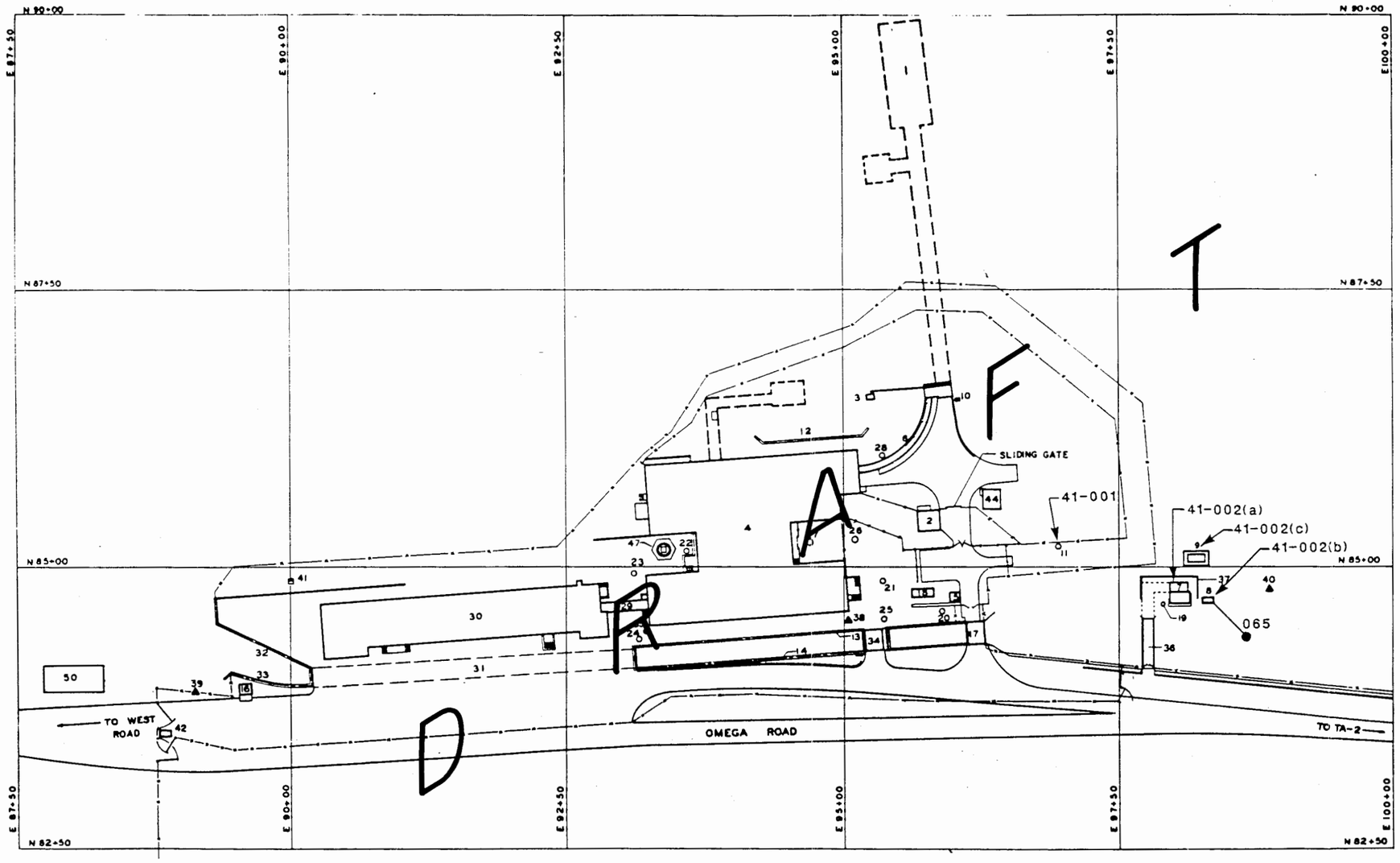

EXPLANATION

41-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

UNCLASSIFIED

FIGURE 41-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-41

1" = 50'

GRAPHIC SCALE

REV.	DATE	REVISION	BY	CKD	APP
15	8-4-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 8-1-83	H.S.		

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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
TA-41 W-SITE

SEE CLASSIFICATION
CLASS. U
REVIEWER
DATE 10-29-83

SUBMITTED
RECOMMENDED
APPROVED

DRAWN
CHECKED
DATE 8-4-83
SHEET NO. 2 OF 2
DRAWING NO ENG-R5122

301215 02 01 B36

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-41-1	W-1	UNDERGROUND VAULT		N 90+00 E 95+00
TA-41-2	W-2	GUARD HOUSE		N 85+00 E 95+00
TA-41-3	W-3	BLOWER HOUSE		N 87+50 E 95+00
TA-41-4	W-4	LABORATORY BUILDING		N 85+00 E 95+00
TA-41-5	W-5	GUARD HOUSE		N 85+00 E 95+00
TA-41-6	W-6	COVERED PASSAGEWAY	BLDG. 1 TO BLDG. 4	N 85+00 E 95+00
TA-41-7	W-7	IMHOFF TANK & CHLORINE ROOM	SEWAGE PLANT	N 85+00 E 97+50
TA-41-8	W-8	TANK, CONTACT	SEWAGE PLANT	N 85+00 E 97+50
TA-41-9	W-9	DRYING BED	SEWAGE PLANT	N 85+00 E 97+50
TA-41-10	W-10	SUMP PIT		N 87+50 E 95+00
TA-41-11	W-11	TANK, SEPTIC	ABANDONED 1953	N 85+00 E 97+50
TA-41-12	W-12	RETAINING WALL		N 85+00 E 95+00
TA-41-13	W-13	RETAINING WALL		N 85+00 E 95+00
TA-41-14	W-14	RETAINING WALL		N 85+00 E 95+00
TA-41-15	W-15	BRIDGE	INCORPORATED IN TA-41-31	
TA-41-16	W-16	GUARD HOUSE		N 85+00 E 90+00
TA-41-17	W-17	BRIDGE		N 85+00 E 95+00
TA-41-18	W-18	MANHOLE	WATER P.R.V.	N 85+00 E 95+00
TA-41-19	W-19	MANHOLE	SANITARY	N 85+00 E 97+50
TA-41-20	W-20	MANHOLE	SANITARY	N 85+00 E 95+00
TA-41-21	W-21	MANHOLE	SANITARY	N 85+00 E 95+00
TA-41-22	W-22	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 92+50
TA-41-23	W-23	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 92+50
TA-41-24	W-24	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 92+50
TA-41-25	W-25	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 95+00
TA-41-26	W-26	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 95+00
TA-41-27	W-27	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 95+00
TA-41-28	W-28	MANHOLE, STORM DRAINAGE	TRANSFERRED TO ZIA 1961	N 85+00 E 95+00
TA-41-29	W-29	PASSAGEWAY		N 85+00 E 92+50
TA-41-30	W-30	ENGINEERING & LAB BLDG.		N 85+00 E 92+50
TA-41-31	W-31	BOX CULVERT		N 85+00 E 92+50
TA-41-32	W-32	RETAINING WALL		N 85+00 E 90+00
TA-41-33	W-33	RETAINING WALL		N 85+00 E 90+00
TA-41-34	W-34	BRIDGE		N 85+00 E 95+00
TA-41-35	W-35	MANHOLE	SANITARY	N 85+00 E 92+50
TA-41-36	W-36	BRIDGE		N 85+00 E 97+50
TA-41-37	W-37	RETAINING WALL		N 85+00 E 97+50
TA-41-38	W-38	TRANSFORMER STATION		N 85+00 E 95+00
TA-41-39	W-39	TRANSFORMER STATION		N 85+00 E 90+00
TA-41-40	W-40	TRANSFORMER STATION		N 85+00 E 100+00
TA-41-41	W-41	METERING STATION		N 85+00 E 90+00
TA-41-42	W-42	GUARD BUILDING		N 82+50 E 87+50
TA-41-44	W-44	STORAGE BUILDING		N 85+00 E 97+50
TA-41-45	W-45	TANK, IND WASTE	NOT SHOWN	
TA-41-46	W-46	TANK, FUEL	NOT SHOWN	
TA-41-47	W-47	STACK		N85+00 E95+00
TA-41-49	W-49	TRANSFORMER STATION	NOT SHOWN	
TA-41-50	W-50	TRASPORTABLE OFFICE BLDG.	FORMERLY TA-0-1032	N82+50 E90+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

UNCLASSIFIED

FIGURE 41-3

TA-41 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
16	9-22-83	REVISED TITLE BLOCK AND DWG TO STATUS OF 8-1-83	VM		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-41 W-SITE

SEC CLASSIFICATION
CLASS U
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED
DRAWN V.E. MORA
CHECKED
DATE 9-22-83
SHEET NO 1 of 2
DRAWING NO ENG-R5122

TA-42

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 42 was designed as an incinerator site for radionuclide contaminated waste. It was never fully operational, and all buildings were removed in 1978. In the interim, the area was used for storage and decontamination work. Some radionuclide contamination of the site occurred, although subsequent cleanup activities have removed most of the contamination.

TA-42 was at an elevation of about 7,250 feet asl. It was located on the major mesa bounded by Mortandad Canyon on the north and Pajarito Canyon on the south. The site was near the north edge of the mesa. Canyon walls are steep or cliffs in this area.

TA-42 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine and Pinon-Juniper overstory vegetation zones. The major soil series at TA-42 is the Hackroy Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr, from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

At TA-42, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,950 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-42
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1951-mid-1950's

UNIT INFORMATION

The incinerator [42-001(a)] was located outside of Building TA-42-1. It had a design throughput of 45.5-90.8 kg/hr. The off-gases were routed through an off-gas cleanup system prior to discharge to the atmosphere. Ashes from the off-gas system and incinerator were placed in two holding tanks TA-42-2 and TA-42-3 [42-001(b) and (c)]. Because of operational problems, the system was used only irregularly and was removed (including the tanks) in 1978.

WASTE INFORMATION

Radionuclide-contaminated wastes generated in the laboratory were to be incinerated in this unit; however, very little was actually incinerated due to its poor performance.

RELEASE INFORMATION

Operational problems associated with the off-gas cleanup system resulted in releases of radionuclide particulates. When the building was removed in 1978, soils were monitored for radioactive contamination.

DRAFT

42-002 DECONTAMINATION FACILITY

SUMMARY

LOCATION: TA-42
TYPE OF UNIT(s): OTHER: DECONTAMINATION UNIT
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1956 - 1970

UNIT INFORMATION

This unit, located at TA-42-1, consisted of a vacublaster used to remove radionuclides from various laboratory equipment. Dry boxes and trucks were typical items decontaminated. The area also served as a storage area for contaminated equipment.

WASTE INFORMATION

The waste treated consisted of radionuclides and other possible residues such as grease and oil removed from equipment. The wastes generated by the unit probably consisted of fine solid residues and liquids containing radionuclides and possibly acids and solvents.

RELEASE INFORMATION

The decontamination facility may have had very small releases to the air. The liquids apparently went to the septic system. It is assumed that fine solid residues were bagged and sent to a material disposal area.

DRAFT

SUMMARY

LOCATION: TA-42
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/ DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1951 - 1970's

UNIT INFORMATION

The tank, TA-42-4, had a capacity of 565 gallons, and discharged to Mortandad Canyon. The tank was removed in 1978.

WASTE INFORMATION

The tank received radioactive liquid waste containing plutonium, uranium, tritium, and fission products from activities at TA-42. Because a decontamination operation took place at TA-42 (see 42-002), solvents and perhaps acids may have also been present.

RELEASE INFORMATION

The tank liquids were periodically removed and either placed in a material disposal area or treated at TA-50. The tank also had a discharge line to Mortandad Canyon. During decommissioning, contaminated soil in the discharge area was removed until only intermittant areas of low level contamination were believed to remain. It is believed a liquid discharge from TA-42 reached Mortandad Canyon. No information is available on non-radionuclide constituents of any possible residuals.

DRAFT

TA-42 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
42-001(a)	42-1
42-001(b)	42-1
42-001(c)	42-1
42-002	42-1
42-003	42-1

NOTE: Some structure locations contain more than one SWMU.

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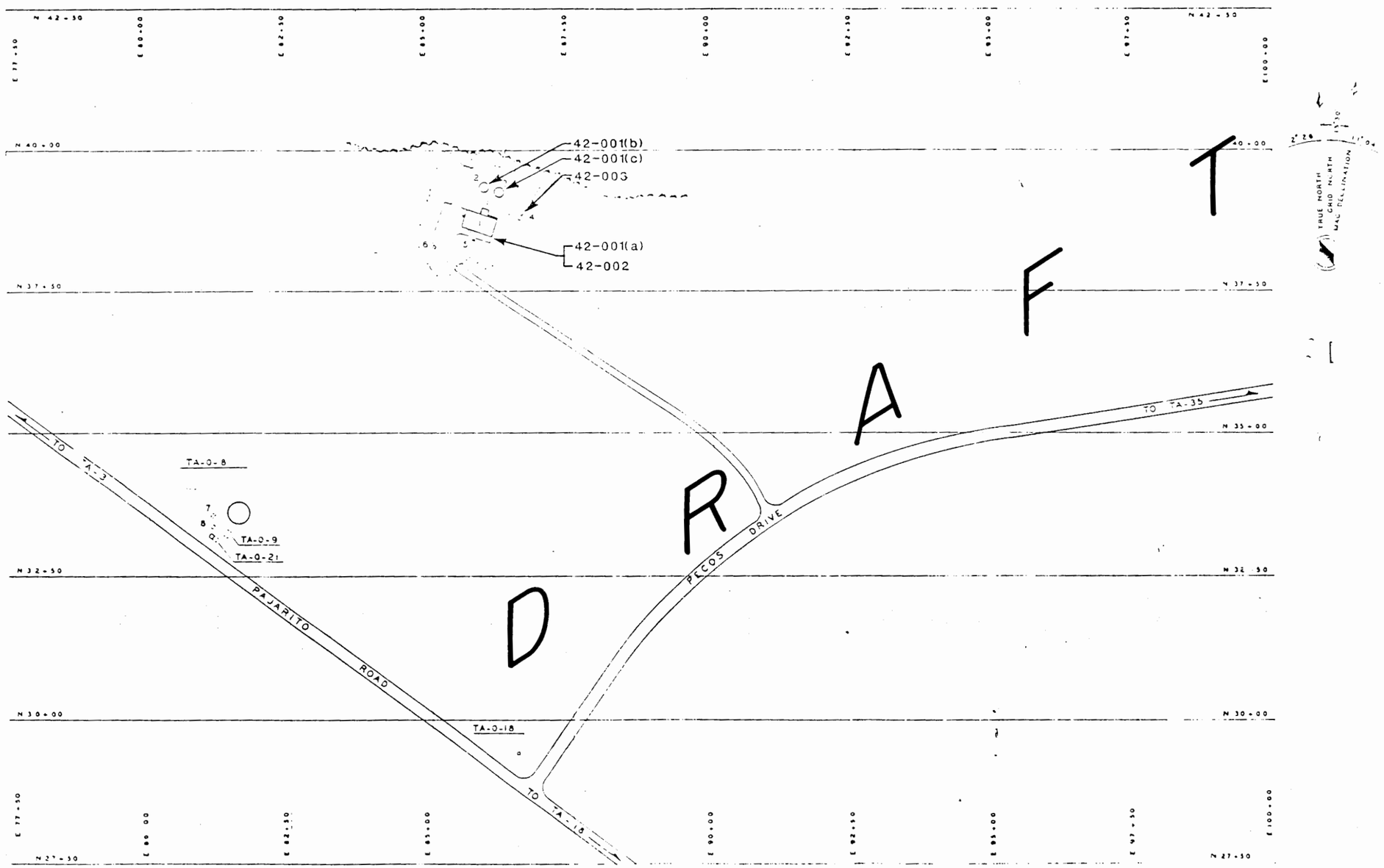
OFFICIAL USE ONLY

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-0-8	ULR-8	WATER TANK
TA-0-9	ULR-9	MANHOLE (WATER)
TA-0-18	ULR-18	MANHOLE (GAS PRV)
TA-0-21	ULR-21	CHLORINATION STATION

STRUCTURE NUMBER	DESIGNATION	REMARKS
TA-42-1	DS-1	INCINERATOR BLDG
TA-42-2	DS-2	HOLDING TANK
TA-42-3	DS-3	HOLDING TANK
TA-42-4	DS-4	SEPTIC TANK
TA-42-5	DS-5	MANHOLE (GAS-DRIP POT)
TA-42-6	DS-6	MANHOLE (WATER)
TA-42-7	DS-7	MANHOLE (WATER)
TA-42-8	DS-8	MANHOLE (GAS)



DRAFT

UNCLASSIFIED

EXPLANATION

42-001 SWMU LOCATION

FIGURE 42-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-42

NO	DATE	REVISIONS	BY	CHKD	CHP	DWG
7	10/1/85	REDRAWN TO STATUS OF JULY 1, 1985	NOB	JAS		

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

STRUCTURE LOCATION PLAN
TA-42 INCINERATOR SITE

CHECKED J. A. Sizer DESIGNER
RECOMMENDED GROUP LEADER
APPROVED ENG. DEPT. OFFICE
DRAWN N. BUFFA DATE
DRAWING NO.

AUTHORIZED FOR

OFFICIAL USE ONLY

TA-43

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 43 is used for biomedical research and, in the past, industrial hygiene research. The research is a mixture of basic and applied programs to study the mechanisms of action and to assess the health effects of radiation and materials associated with energy production. These studies are both structural and functional and are conducted at the molecular, cellular, and whole animal levels. Radioactive materials are utilized in this research. Occasional work with human pathogens is conducted in a level-3 biocontainment laboratory. Spills involving radioactive materials have been recorded at TA-43.

TA-43 lies at about 7,250 feet elevation asl. It is located on East Mesa which is bounded by Pueblo Canyon on the north, within the Los Alamos Townsite, and by Los Alamos Canyon on the south. Canyon walls are steep in this area.

TA-43 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone. The surface is steeply sloping rock outcrop. At TA-43, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,200 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

43-001 INDUSTRIAL WASTE LINES

SUMMARY

LOCATION: TA-43
TYPE OF UNIT(s): WASTE LINE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1950's - 1975

UNIT INFORMATION

Industrial waste lines have been used in TA-43 over the years to dispose of radioactive-mixed waste generated by the Health Research Laboratory. Initially, the drains connected to the TA-45 treatment plant. In about 1963, the drains were connected to the county sanitary sewer line. All liquid wastes passed through the sewer line until 1975 when containers for radioactive waste were placed in the laboratories. In 1981, the building drains in TA-43 were redirected into the TA-3 sanitary sewer system. Most of the industrial waste line has been removed and the only remaining line is between the Health Research Laboratory, TA-43-1, and TA-0-60. Reports indicate that this section is contaminated with low levels of plutonium and fission products.

WASTE INFORMATION

The waste was radioactive-mixed. Specific constituents are unknown.

RELEASE INFORMATION

It is unknown whether the lines at TA-43 have released hazardous or radioactive constituents. There have been no known, documented leaks in the lines serving TA-43.

DRAFT

43-002 INCINERATOR

SUMMARY

LOCATION: TA-43
TYPE OF UNIT(s): INCINERATOR
UNIT USE: DISPOSAL/TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1960's

UNIT INFORMATION

The unit was an incinerator used to dispose of wastes generated by health research activities. The incinerator was 400,000 Btu/hr, gas fired, and could burn 100 lb/hr.

WASTE INFORMATION

The waste consisted of small animal carcasses, paper, and other health research-generated wastes.

RELEASE INFORMATION

Outside of combustion products, there were no known releases from this unit.

DRAFT

43-003 STORAGE

SUMMARY

LOCATION: TA-43
TYPE OF UNIT(s): STRUCTURE/BUILDING
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A small area within TA-43-1 is used as a satellite storage area for spent solvents and miscellaneous chemicals. The materials are kept in a locked closet.

WASTE INFORMATION

The material stored in this area contains solvents, scintillation vials, and miscellaneous chemicals.

RELEASE INFORMATION

There have been no known releases from this area.

DRAFT

43-004 CARCASS STORAGE

SUMMARY

LOCATION: TA-43
TYPE OF UNIT(s): STORAGE
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Animals which have been used in experiments are stored in freezers at TA-43-1. When enough bodies are in storage, they are placed in 30 gallon drums and taken for shaft disposal in MDA-G.

WASTE INFORMATION

The waste is reported to be bodies and parts of dead animals.

RELEASE INFORMATION

There have been no known releases.

DRAFT

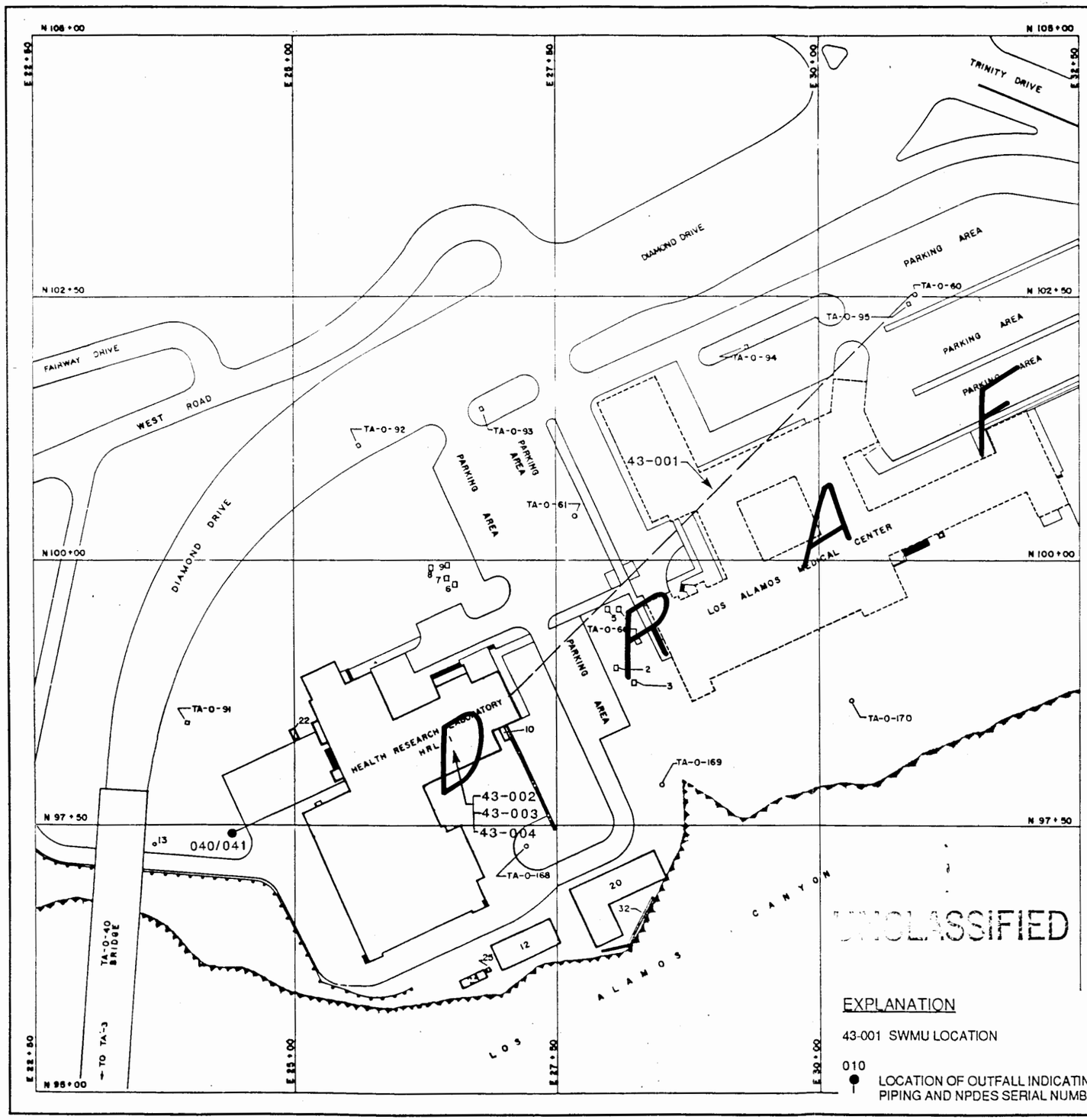
TA-43 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
43-001	43-1
43-002	43-1
43-003	43-1
43-004	43-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B111



STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-43-1	HRL-1	HEALTH RESEARCH LAB.		N97+50 E25+00
TA-43-2	HRL-2	MANHOLE	WATER P.I.V.	N100+00 E27+50
TA-43-3	HRL-3	MANHOLE	WATER	N100+00 E27+50
TA-43-4	HRL-4	MANHOLE	WATER	N100+00 E27+50
TA-43-5	HRL-5	MANHOLE	WATER	N100+00 E27+50
TA-43-6	HRL-6	MANHOLE	WATER	N100+00 E27+50
TA-43-7	HRL-7	MANHOLE	WATER	N100+00 E27+50
TA-43-8	HRL-8	MANHOLE	WATER	N100+00 E27+50
TA-43-9	HRL-9	MANHOLE	WATER	N100+00 E27+50
TA-43-10	HRL-10	SEWAGE LIFT STATION	TRANSFERRED TO ZIA AUG '70	N97+50 E27+50
TA-43-11	HRL-11	METAL LAWN BUILDING	REMOVED 1985	
TA-43-12	HRL-12	WAREHOUSE		N97+50 E27+50
TA-43-13	HRL-13	MANHOLE, TELEPHONE		N97+50 E25+00
TA-43-14	HRL-14			
TA-43-15	HRL-15			
TA-43-16	HRL-16			
TA-43-17	HRL-17		CANCELLED	
TA-43-18	HRL-18			
TA-43-19	HRL-19			
TA-43-20	HRL-20	TRANSPORTABLE, OFFICE		N97+50 E27+50
TA-43-21	HRL-21		CANCELLED	
TA-43-22	HRL-22	EMERGENCY ACCESS TO 43-1		N97+50 E27+50
TA-43-23	HRL-23		CANCELLED	
TA-43-24	HRL-24	TRAILER, OFFICE		N95+00 E27+50
TA-43-25	HRL-25	TRANSFORMER PAD		N95+00 E27+50
TA-43-26	HRL-26		CANCELLED	
TA-43-27	HRL-27		CANCELLED	
TA-43-28	HRL-28			
TA-43-29	HRL-29			
TA-43-30	HRL-30	STORAGE SHED		
TA-43-31	HRL-31		CANCELLED	
TA-43-32	HRL-32	RETAINING WALL		N97+50 E27+50
TA-43-33	HRL-33			
TA-43-34	HRL-34			
TA-43-35	HRL-35			
TA-43-36	HRL-36			
TA-43-37	HRL-37			
TA-43-38	HRL-38			
TA-43-39	HRL-39			
TA-43-40	HRL-40			
TA-43-41	HRL-41			
TA-43-42	HRL-42			
TA-43-43	HRL-43			
TA-43-44	HRL-44			

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-40	ULR-40	BRIDGE	TRANSFERRED TO ZIA 1956	N97+50 E22+50
TA-0-60	ULR-60	MANHOLE, ACID	ABANDONED 1965	N102+50 E30+00
TA-0-61	ULR-61	MANHOLE, ACID	ABANDONED 1965	N100+00 E27+50
TA-0-66	ULR-66	MANHOLE, ELECTRICAL	ABANDONED 1965	N100+00 E27+50
TA-0-91	ULR-91	MANHOLE, STEAM		N97+50 E25+00
TA-0-92	ULR-92	MANHOLE, STEAM		N100+00 E25+00
TA-0-93	ULR-93	MANHOLE, STEAM		N102+50 E27+50
TA-0-94	ULR-94	MANHOLE, STEAM		N102+50 E30+00
TA-0-95	ULR-95	MANHOLE, STEAM		N102+50 E30+00
TA-0-168	ULR-168	MANHOLE, ELECTRICAL		N97+50 E27+50
TA-0-169	ULR-169	MANHOLE, ELECTRICAL		N97+50 E27+50
TA-0-170	ULR-170	MANHOLE, ELECTRICAL		N97+50 E30+00

NOTES

UNIT 43-001: UNDERGROUND PIPING BETWEEN TA-43-1 AND TA-0-60.

50' 25' 0 50' 100'
1" = 50' GRAPHIC SCALE

FIGURE 43-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-43

EXPLANATION

43-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

TRUE NORTH AND MAGNETIC NORTH 13° 30' 11° 24'

REV.	DATE	REVISION	BY	CKD	APP
15	3-28-86	REVISED TO STATUS OF 3-11-86	ALC		
14	7-8-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 6-29-83	H.S.		

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

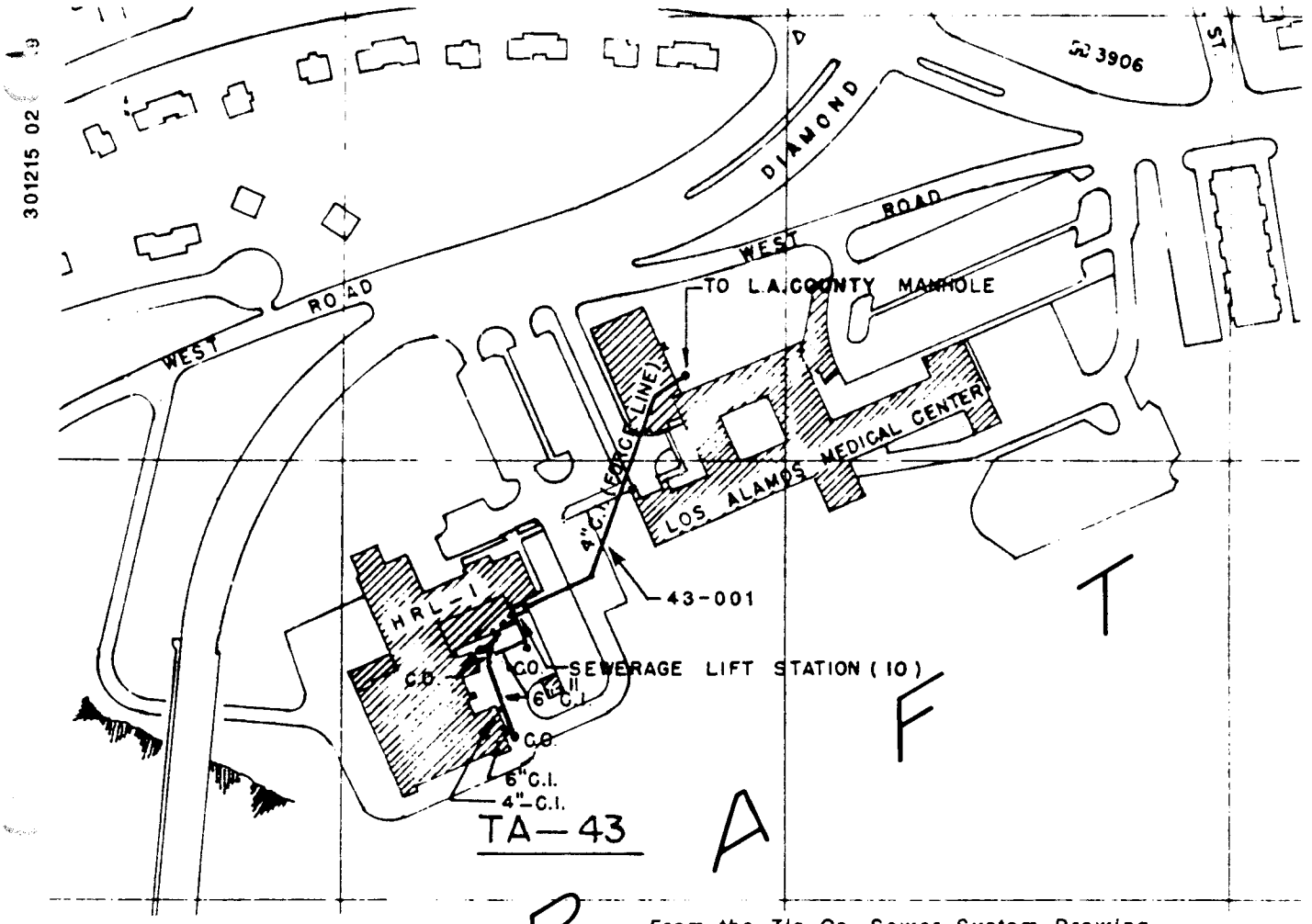
FACILITIES ENGINEERING, DIVISION

STRUCTURE LOCATION PLAN
TA-43
HEALTH RESEARCH LABORATORY

SEC. CLASSIFICATION: CLASS. U
REVIEWER
DATE 6-29-83

SUBMITTED
RECOMMENDED
APPROVED

DRAWN HERB SALAZAR
CHECKED
DATE 7-8-83
SHEET NO. 1 OF 1
DRAWING NO ENG-R5123



From the Zia Co. Sewer System Drawing

EXPLANATION

43-001 SWMU LOCATION

UNCLASSIFIED

FIGURE 43-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-43

TA-44

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 44, which was located in Los Angeles, California, is no longer operational as a laboratory site. TA-44 has no solid waste management units from laboratory use.

DRAFT

TA-45

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 45 was a treatment plant to handle liquid industrial radionuclide-contaminated waste that was then sent to outfalls in Acid Canyon, now outside the Laboratory boundary. The plant and outfalls were shut down by 1966.

TA-45 outfall was located near the present intersection of Canyon Road and Central Avenue in the town of Los Alamos. Acid Canyon is a tributary to Pueblo Canyon, which joins Los Alamos Canyon. These reaches of Acid, Pueblo, and Los Alamos Canyons between the Rio Grande and the TA-45 site are included with TA-45 as part of a solid waste management unit. TA-45 was located at an elevation of about 7,300 feet asl; the confluence of Los Alamos Canyon and the Rio Grande is at less than 6,000 feet asl. TA-45 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone. Soils have not been surveyed in this area.

At TA-45, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 6,100 and 6,200 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground-water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

SUMMARY

LOCATION: TA-45
TYPE OF UNIT(s): WASTEWATER TREATMENT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1951 - 1964

UNIT INFORMATION

The Radioactive Waste Treatment Facility, TA-45-2, received industrial liquid waste from, at various times, TA-1, TA-3, TA-43 and TA-48. The treatment plant consisted of storage, flocculation, sedimentation, and filtration equipment. Effluent was discharged through outfalls to Acid-Pueblo Canyon (which had previously received effluent from the TA-1 industrial system). Sludges were taken to a material disposal area. The treatment facility was removed in the fall of 1966.

WASTE INFORMATION

Influent consisted of liquids containing radionuclides, solvents, and other chemicals.

RELEASE INFORMATION

Effluent was discharged to Acid-Pueblo Canyon, a tributary to Pueblo Canyon. Cleanup operations have removed most of the radionuclide contaminated rock and soil at the immediate outfall area. Radiation surveys since 1972 documented that the canyon system contains plutonium at above-background levels in all channels and banks from discharge points through lower Los Alamos Canyon. The receiving Acid-Pueblo, Pueblo, and Lower Los Alamos Canyons, also contain the residual inventory of chemicals that were in the wastewater discharge. Small areas of subsurface contamination remains under fill near Building 2.

DRAFT

45-002 VEHICLE DECONTAMINATION FACILITY

SUMMARY

LOCATION: TA-45
TYPE OF UNIT(s): DECONTAMINATION FACILITY
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1951 - 1964

UNIT INFORMATION

This unit was located at TA-45-1 and served as a radionuclide decontamination facility for trucks. The unit and related equipment were removed in 1966.

WASTE INFORMATION

The waste generally consisted of residues such as dirt, oil, and grease contaminated with radionuclides removed during decontamination.

RELEASE INFORMATION

The wash water originally drained to an outfall that discharged to Acid-Pueblo Canyon. Some of the rock at the outfall was removed during decommissioning. Later, the wastewater was sent to TA-45-2 for treatment prior to discharge.

DRAFT

45-003 DECOMMISSIONED WASTE LINES

SUMMARY

LOCATION: TA-45
TYPE OF UNIT(s): WASTE LINE
UNIT USE: OTHER: TRANSPORT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1951 - 1964

UNIT INFORMATION

A number of waste lines connected TA-1, -3, -43, and -48 to TA-45 at various times between 1951 and 1964. Except for a short segment located under the hospital, these have been removed, along with any associated radionuclide-contaminated soil.

WASTE INFORMATION

The waste consisted of radioactive-mixed waste liquids generated by industrial operations.

RELEASE INFORMATION

General leaks from the waste lines had been reported in the past but were usually cleaned up for radionuclides. It is possible that radioactive contamination may remain in an area which had a leak in the Los Alamos Canyon region.

DRAFT

TA-45 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
45-001	45-1
45-002	45-1
45-003	45-2

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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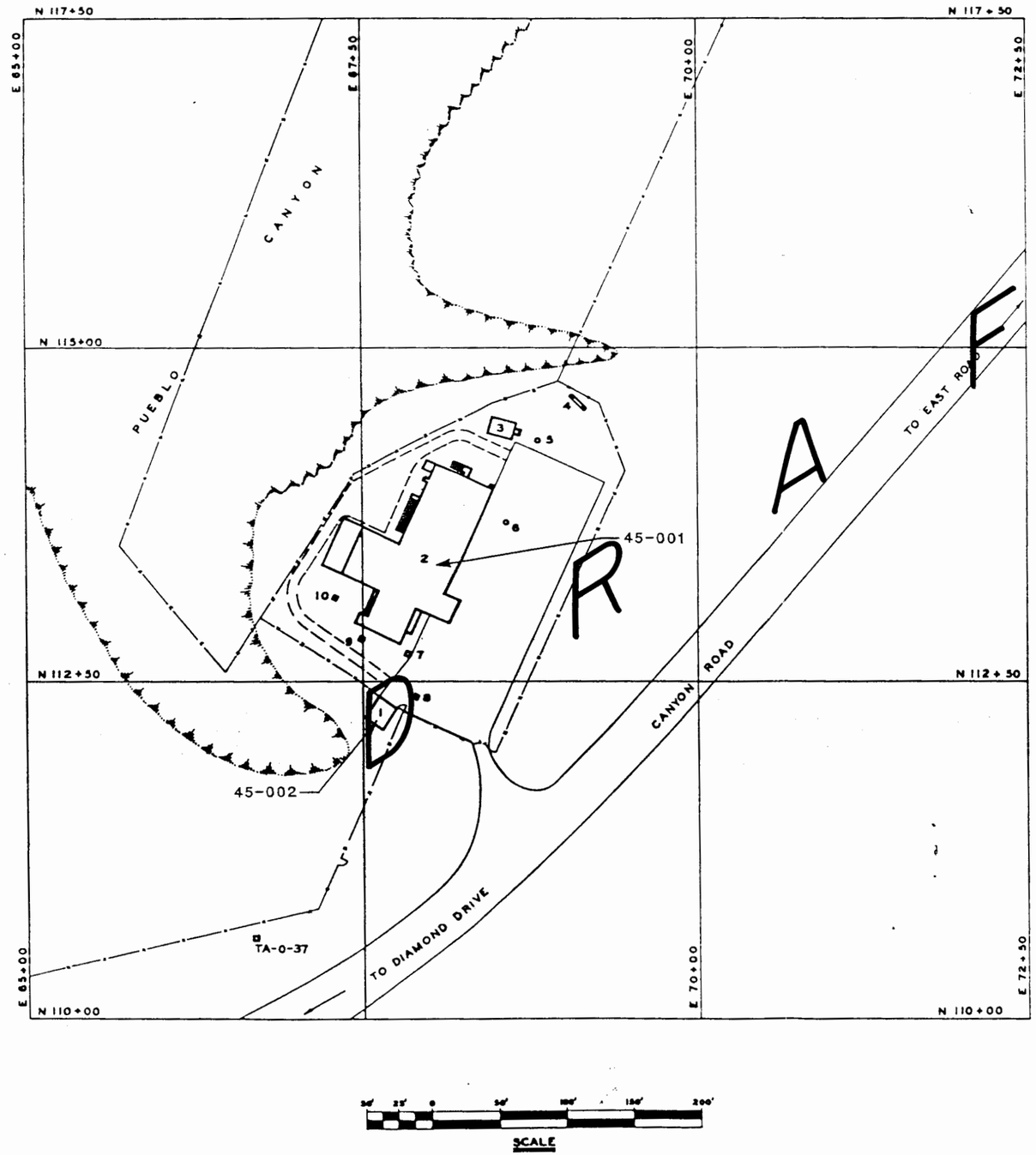

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-45-1	WD-1	TRUCK WASHING BUILDING		N112+50 E 67+50
TA-45-2	WD-2	LABORATORY BUILDING		N112+50 E 67+50
TA-45-3	WD-3	SEWAGE LIFT STATION	SANITARY	N115+00 E 67+50
TA-45-4	WD-4	TRANSFORMER STATION		N115+00 E 70+00
TA-45-5	WD-5	MANHOLE	SANITARY	N115+00 E 70+00
TA-45-6	WD-6	MANHOLE	SANITARY	N112+50 E 67+50
TA-45-7	WD-7	MANHOLE	ACID	N112+50 E 67+50
TA-45-8	WD-8	MANHOLE	ACID	N112+50 E 67+50
TA-45-9	WD-9	MANHOLE	ACID	N112+50 E 67+50
TA-45-10	WD-10	MANHOLE	ACID	N112+50 E 67+50

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STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-37	ULR-37	MANHOLE	ACID SEWER	N110+00 E 67+50

A

R

EXPLANATION

45-001 SWMU LOCATION

FIGURE 45-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-45

NO.	DATE	REVISIONS	BY	CHECK	
10	8-15-81	REDRAWN TO STATUS OF 8-1-81 (WAS ENG-R170)	O.G.		

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

STRUCTURE LOCATION PLAN
TA-45 WD-SITE

AUTHORIZED FOR

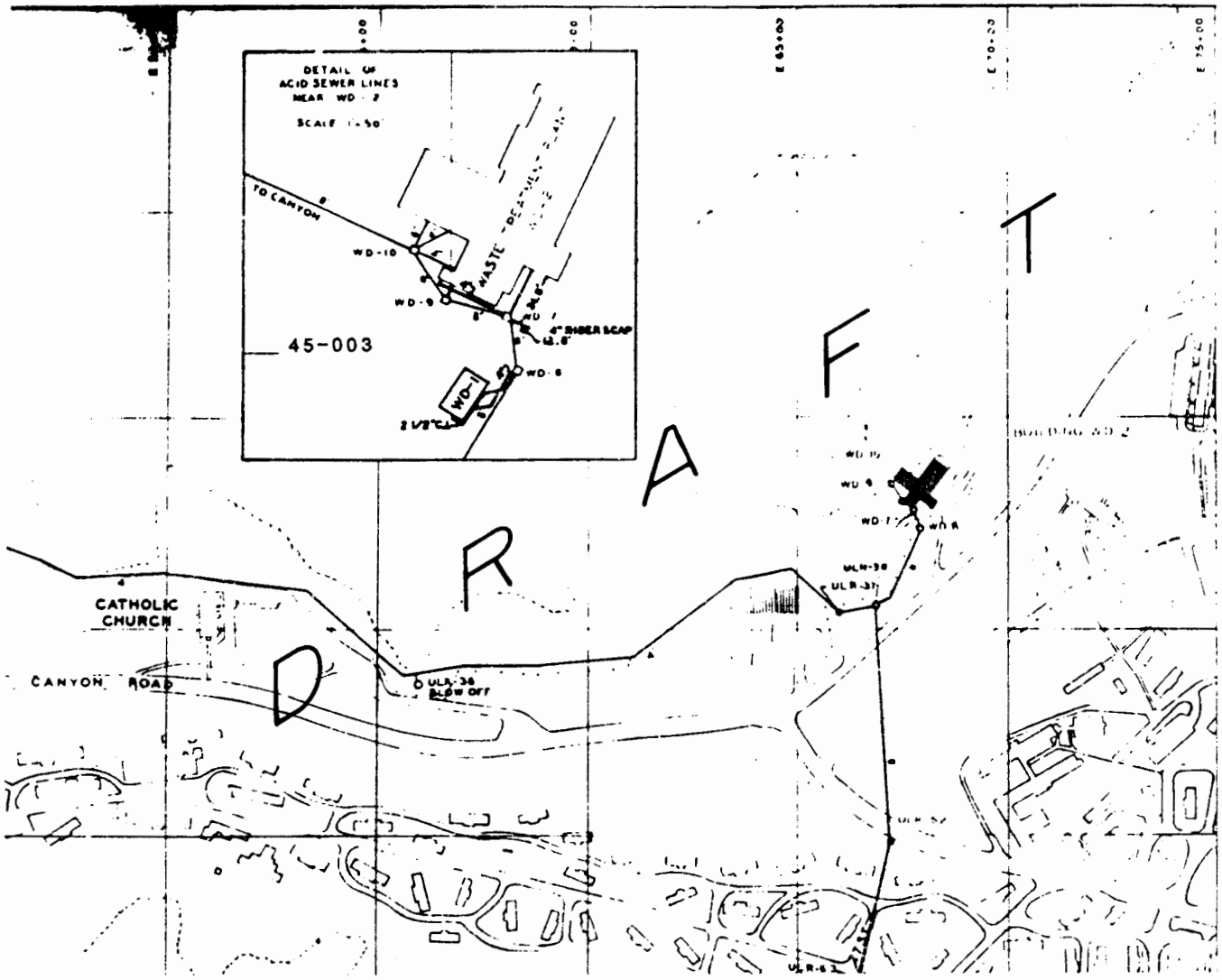
CHECKED — HEAD, ENG. DESIGNER
RECOMMENDED — GROUP LEADER — DATE
APPROVED — ENG. DEPT. OFFICE — DRAWING NO.

301215 02 01 A4

EXPLANATION

45-003 SWMU LOCATION

From Utility Location Plan,
Los Alamos Scientific Laboratory,
Eng. Dwg. No. ENG R95.



UNCLASSIFIED

FIGURE 45-2

SOLID WASTE MANAGEMENT UNITS
(SWMUs) IN TA-45

TA 46

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 46 lies near the center of the Los Alamos National Laboratory facility. It is located on a mesa top at over 7,000 feet elevation, between Pajarito Canyon and Canada del Buey. TA-46 lies in both Ponderosa Pine and Pinon-Juniper vegetative communities. This mesa is one of several 'finger' mesas making up the eastern margin of the Pajarito Plateau on which the laboratory and Los Alamos townsite are located. The canyons lie about 200 feet below the mesa, and the canyon walls are very steep.

TA-46 has been used for a variety of projects including the Rover project, applied photochemistry research, including laser isotope separation technology and laser enhancement of chemical reactions, engineering technology, accelerator technology, and solar energy research. Materials, electronics, and computer simulation research also is carried on at TA-46.

The Pajarito Plateau in the area of TA-46 is underlain by the Bandelier Tuff, which is welded near the surface, but variable in the subsurface. Welded Bandelier Tuff tends to be the less permeable and have lower porosity than nonwelded or moderately welded tuff. The site lies about 800 feet above the potentiometric surface of the major aquifer in the area in the underlying sedimentary rocks of the Puye and Tesuque Formations. The potentiometric surface slopes eastward in the area of TA-46, toward the Rio Grande, a major discharge zone for the aquifer. There are no springs or seeps in the deep canyons of the eastern Pajarito Plateau near TA-46 through which the aquifer might discharge. The average hydraulic gradient is 0.015 foot per foot. The recharge area is the Valles Caldera, in the Jemez Mountains to the southwest of the Laboratory. The flow velocity in the aquifer is estimated to be 0.18 foot per day.

The soil is described as Hackroy sandy loam. The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa water-holding capacity. The Hackroy series has a moderate water erosion hazard (0.65 to 1.8 cm soil/yr, from an unprotected surface) and medium runoff (0.14 to 0.51 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

Perched ground water has been encountered in the alluvium in Pajarito Canyon. This perched ground water does not seem to be recharging the underlying tuff. The water-levels in the Pajarito Canyon perched ground water fluctuates seasonally. Flow rates are estimated to be 8 to 23 feet per day. A perched water table was not found in Canyon del Buey, in the area north of TA-54.

The intrinsic permeability of Bandelier Tuff in drill holes and core samples from TA-54 southeast of TA-46 has been measured (IT, 1987). The values obtained range from about 10^{-7} to 10^{-7} cm^2, with a general trend of decreasing permeability with depth. The presences of fractures do not clearly affect the measured permeabilities.

The hydraulic conductivity of the tuff is a direct indicator of the potential for contaminant movement through the tuff to ground water. However, in the vadose, or unsaturated, zone, the hydraulic conductivity is related to the moisture content (or degree of saturation) of the tuff. The moisture content of the Bandelier Tuff is usually very low; about 2 to 4 percent. Less frequently, moisture contents up to 28 percent are encountered, possibly related to the the occurrence of fractures or lesser degrees of welding. Measurements of the effective permeability of Bandelier Tuff samples as a function of moisture content resulted in values between about 10^{-9} and 10^{-3} cm^2 for water saturation between 0.64 and 0.95. Using appropriate properties for 'fresh' ground water, this results in hydraulic conductivities in the range of 10^{-9} to 10^{-7} cm/s. Because the unsaturated hydraulic conductivity is proportional to the moisture content of the samples (i.e., the hydraulic conductivity decreases as moisture content decreases) these measured values for hydraulic conductivity are greater than would be expected in Bandelier Tuff under field conditions, except near the surface after a major storm event. The minimum theoretical value for hydraulic conductivity based on measured effective permeability, at 36 percent saturation, is 9.1x10-8cm/s.

The climate at Los Alamos is temperate and semi-arid. Mean annual precipitation at TA-46 is about 46 cm (18 inches). Field measurements of volumetric moisture content of the Bandelier Tuff at TA-54, near TA-46, show

that moisture content is consistently low (between 2 and 5 percent) below about 15 feet depth with no seasonal variability or variability due to storm events. This indicates that little precipitation infiltrates below 15 feet. Infiltration of precipitation does not appear to be a significant process for transport of waste through the unsaturated zone.

DRAFT

46-001 SIX ACID STORAGE TANKS

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): ABOVEGROUND TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1974 - PRESENT

UNIT INFORMATION

The unit consists of six tanks located on the south side of TA-46-88. Four of the tanks are 3' x 3.5' x 4' (220 gallon capacity), are made of polyethylene in a steel mesh protective cage, and are being used for temporary (<90 days) storage of waste sulfuric acid. The sulfuric acid tanks are portable and only one is used at any given time. While one tank is filled with sulfuric acid inside a concrete berm area, the other three empty tanks are stored outside the bermed area on asphalt. When the one tank is filled, it is transported to TA-50 and the contents of the tank are diluted with acid waste from TA-55. The fifth tank is a 5000-gallon capacity stainless steel tank used for <90 day storage of waste nitric acid. The nitric acid tank is fixed and is also located inside the concrete berm. Waste nitric acid is periodically transferred by gravity to a 1000-gallon stainless steel dumpster tank (owned by HSE-7), which is transported to TA-50 where the contents are neutralized. During the period of 1979 - 1980, the tanks were not used.

WASTE INFORMATION

Four of the tanks are used to store waste sulfuric acid, although only one tank is used at any one time. The fifth and sixth tanks store waste nitric acid.

RELEASE INFORMATION

No known releases have occurred.

DRAFT

46-002 SANITARY LAGOON AND SAND FILTER

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1973 - PRESENT

UNIT INFORMATION

This is a fenced, gunite-lined lagoon TA-46-149, 62' x 102' x 11' deep. Liquids in the lagoon are treated and then discharged from the lagoon through a sand filter to a canyon. According to the RFA, the sand filter consists of three 40' x 40' compartments, lined with plastic. The outfall from the sand filter to the canyon is permitted, and is identified by NPDES serial number 07s (see Appendix A). The CEARP reports that chemical drains connect to the sanitary sewer.

WASTE INFORMATION

Liquid wastes from TA-46 are managed by this unit. These wastes are biologically treated. In past years, the liquids may have contained small quantities of solvents, acids, and radionuclides.

RELEASE INFORMATION

It is suspected that the lagoon has discharged radioactive - mixed waste through its outfall (see Appendix A).

DRAFT

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

There are several inactive septic tanks and one active septic tank in TA 46:

STRUCTURE	SWMU NO.	EST. USE PERIOD	STATUS	CONSTRUCTION/CAPACITY	OVERFLOW
TA-46-8	46-003(a)	1954 - 1973	abandoned	unknown	drain field
TA-46-22	46-003(b)	1956 - 1973	abandoned	steel/500 gal	drain field/distribution box
TA-46-49	46-003(c)	1956 - 1973	abandoned	unknown	drain field/drain line
TA-46-53	46-003(d)	1956 - 1973	abandoned	unknown	drain field
TA-46-66	46-003(e)	1960 - 1973	abandoned	unknown	drain field
TA-46-94	46-003(f)	1960 - 1974	abandoned/backfilled	unknown	unknown
TA-46-230	46-003(g)	? - present	active	1000 gal.	surface, unless pumped frequently

The distribution box for tank TA-46-22 has structure number TA-46-29.

WASTE INFORMATION

Sanitary wastes were handled by the tanks. However, the inactive tanks (TA-46-8, -22, -49, -53, -66, and -94) may also have handled industrial wastes since they all are reported as having possible radionuclide contamination. Plutonium was found in the sludge from TA-46-53 when the tank was pumped. Other contaminants could include organics, acid, and beryllium. Tank TA-46-230 is believed to manage only sanitary waste but may be suspect for other wastes.

RELEASE INFORMATION

Active Tank TA-46-230 must be pumped frequently because it drains to the surface with heavy use and generates strong odors that are particularly notable in the summer months. Any contaminants that entered the inactive tanks may have contaminated the associated drain fields.

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1958 - 1973

UNIT INFORMATION

Sumps and drains in TA-46 include: a) Acid drains from Building TA-46-31 and Tank TA-46-B1 [46-004(a) and (b)] went to a sump, TA-46-61 [46-004(c)]. The sump is currently discharging to Canyon del Buey through a NPDES outfall (serial number 043; see Appendix A). TA-46-B1 was a reactive metal cleanup tank constructed of concrete and used to clean alkali metal containers and components. It was removed in 1973. b) Sumps TA-46-69 and -70 [46-004(d) and (e)] connect in series to a laboratory and shop building, TA-46-58. The sumps are assumed to have had an outlet drain. c) A drain in Building TA-46-24 [46-004(f)] was used during a cleaning operation in which cleaning agents may have been discharged to a storm sewer with an outfall to the canyon. d) Lithium hydroxide was mixed with cooling tower blowdown before the cooling tower effluent was discharged to the canyon. e) The ducts and drains in TA-46-1 and TA-46-16 [46-004(g) and (h)] are believed to have uranium contamination.

WASTE INFORMATION

Sumps TA-46-69 and TA-46-70 are in series and probably handled acids and solvents and possibly radioactive-mixed waste. The drain in building TA-46-24 handled cleaning agents that consisted of 50% nitric and and 50% hydrochloric acid. Sump TA-46-61 handled industrial liquid waste from TA-46-31 and the reactive metal clean-up tank. The cooling tower effluent contained lithium hydroxide.

RELEASE INFORMATION

It is suspected that hazardous releases have occurred from these sumps and drains.

DRAFT

46-005 EXPERIMENTAL SOLAR PONDS

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. EARLY 1980's

UNIT INFORMATION

These units are lined surface impoundments that contained sodium chloride solutions that have been used in experiments for LANL's solar energy program. In 1987, the sodium chloride solution was removed by a salt disposal company. There are current plans to use these units as small sewage lagoons.

WASTE INFORMATION

Samples from the ponds were collected and analyzed in 1987 for EP-toxic metals and semi-volatile organic compounds. Results of the analyses showed concentrations to be below detection limits. There were no known hazardous constituents.

RELEASE INFORMATION

There have been no known hazardous releases from these ponds.

DRAFT

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: 1956 - PRESENT

UNIT INFORMATION

According to CEARP, several working areas of TA-46 may have been subject to spills and releases during the Rover program and more recently. The drainage ditches to the east of Manifold TA-46-71 [46-006(a)], near Shed TA-46-197 [46-006(b)] and Building TA-46-158 [46-006(c)] were noted to contain oil.

WASTE INFORMATION

Petroleum products, chemicals, and radionuclides have been used at TA-46.

RELEASE INFORMATION

The CEARP survey noted evidence of oil spills in several areas at TA-46, including discoloration of the soil along the canyon edge behind TA-46-31 [46-006(d)]. A general clean-up of TA-46 has been conducted, but information on exactly which areas were involved is lacking.

DRAFT

46-007 CESIUM TREATMENT DITCH

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): OTHER: TREATMENT DITCH
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960's - ?

UNIT INFORMATION

This unit consisted of a ditch located near the southwest corner of Building 1. Cells containing cesium metal were placed in the ditch and a stream of water was run over the cells to remove the cesium. Glassware containing cesium metal and cesium oxide were treated similarly. The glassware was broken and left in the ditch until periodic cleanup. This was reportedly a routine operation; however, the total quantities of cesium that were treated in the ditch are not known.

WASTE INFORMATION

The waste consisted of cells containing cesium metal and cesium oxide and broken glassware containing cesium.

RELEASE INFORMATION

The amount of cesium released is not known.

DRAFT

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: ? - 1980's

UNIT INFORMATION

The 1986 CEARP field survey noted several locations where barrels, cans, and drums were stored. The RFA noted storage at TA-46-88 [46-008(a)], TA-46-79 [46-008(b)], and a storage area inside of a fenced area at TA-46 [46-008(c)]. These container storage areas are no longer active. A November 1988 field survey noted 2 unlabled barrels of oil on the south side of TA-46-262 [46-008(d)]. Four barrels of what may have been waste vacuum oil were found on the east side of TA-46-255 [46-008(e)]. Four barrels of oil which may have been either product or waste were located on the southeast side of TA-46-31 [46-008(f)].

WASTE INFORMATION

Contents of the drums in the storage areas were reportedly waste acids, chemicals, oils, out-of-service transformers, power supplies, and waste oil.

RELEASE INFORMATION

In the container storage areas there is evidence of spills and leaks. The extent of possible soil contamination is unknown. No leaks were observed in those storage areas noted during the November 1988 field survey.

DRAFT

46-009 MATERIAL FILL AREA

SUMMARY

LOCATION: TA-46
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

During the 1986 CEARP field survey, a material fill area was found at the head of a tributary to Canyon del Buey.

WASTE INFORMATION

The fill area contained soil and asphalt.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred.

DRAFT

TA-46 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
46-001	46-1
46-002	46-1
46-003(a)	46-1, 46-2
46-003(b)	46-1, 46-2
46-003(c)	46-1, 46-2
46-003(d)	46-1, 46-2
46-003(e)	46-1,46-2
46-003(f)	46-1
46-003(g)	46-1
46-004(a)	46-1, 46-3
46-004(b)	46-3
46-004(c)	46-1, 46-3
46-004(d)	46-1
46-004(e)	46-1
46-004(f)	46-1
46-004(g)	46-1
46-004(h)	46-1
46-005	46-1
46-006(a)	46-1
46-006(b)	46-1
46-006(c)	46-1
46-006(d)	46-1
46-007	46-1
46-008(a)	46-1
46-008(b)	46-1
46-008(c)	Not shown, location unknown
46-008(d)	Not shown, location unknown
46-008(e)	Not shown, location unknown
46-008(f)	46-1
46-009	46-1

DRAFT

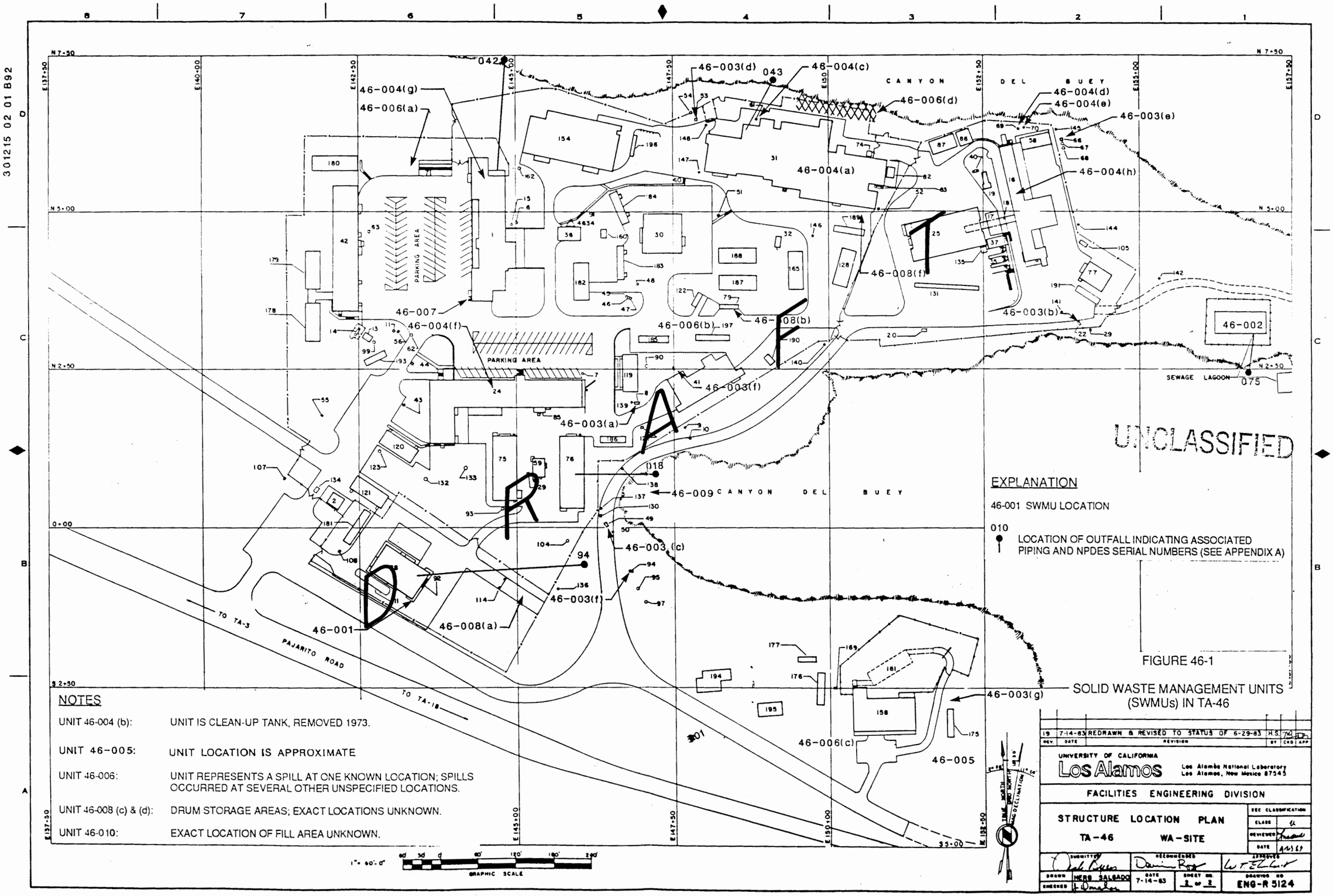


FIGURE 46-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-46

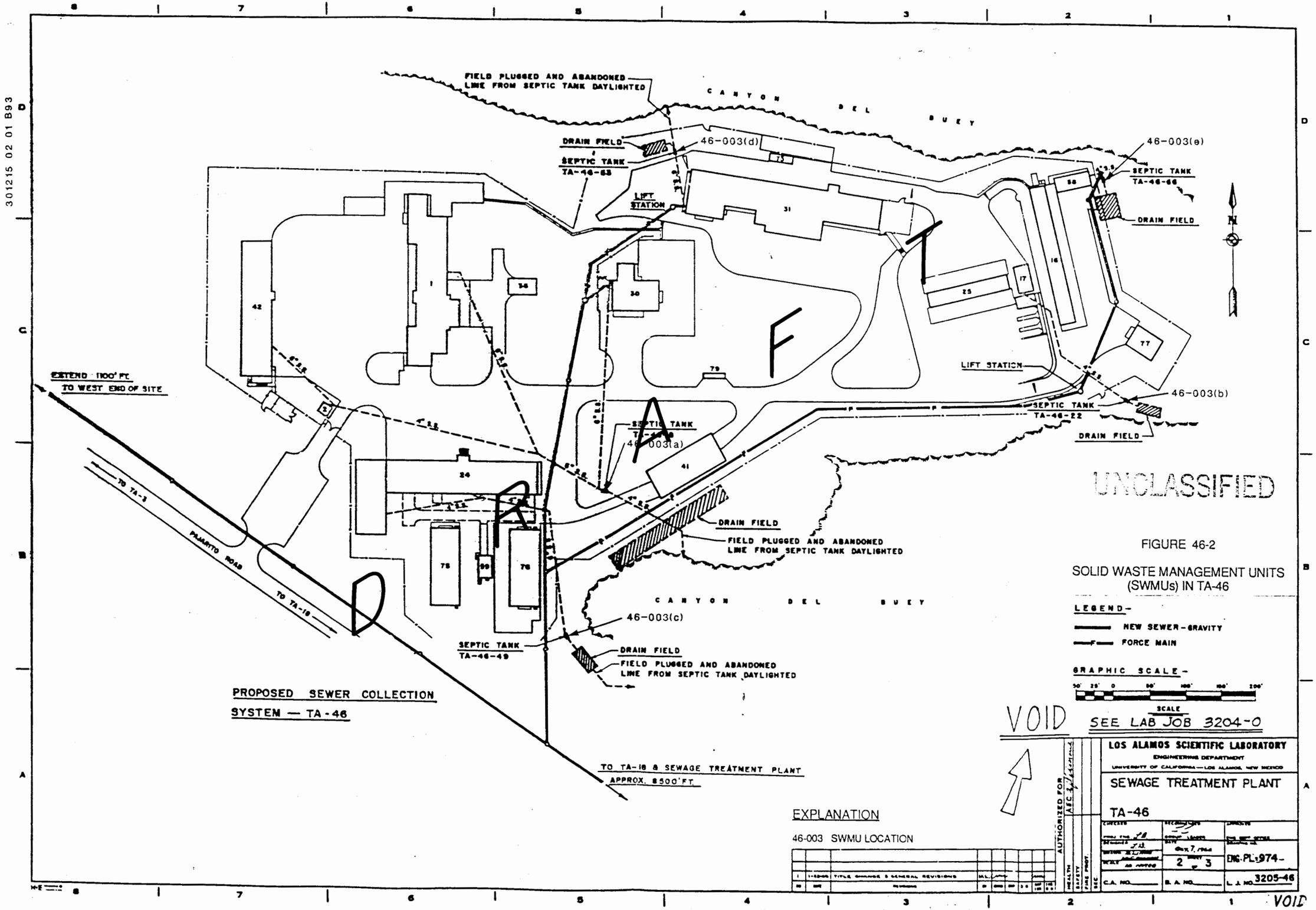


FIGURE 46-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-46

301215 02 01 B102

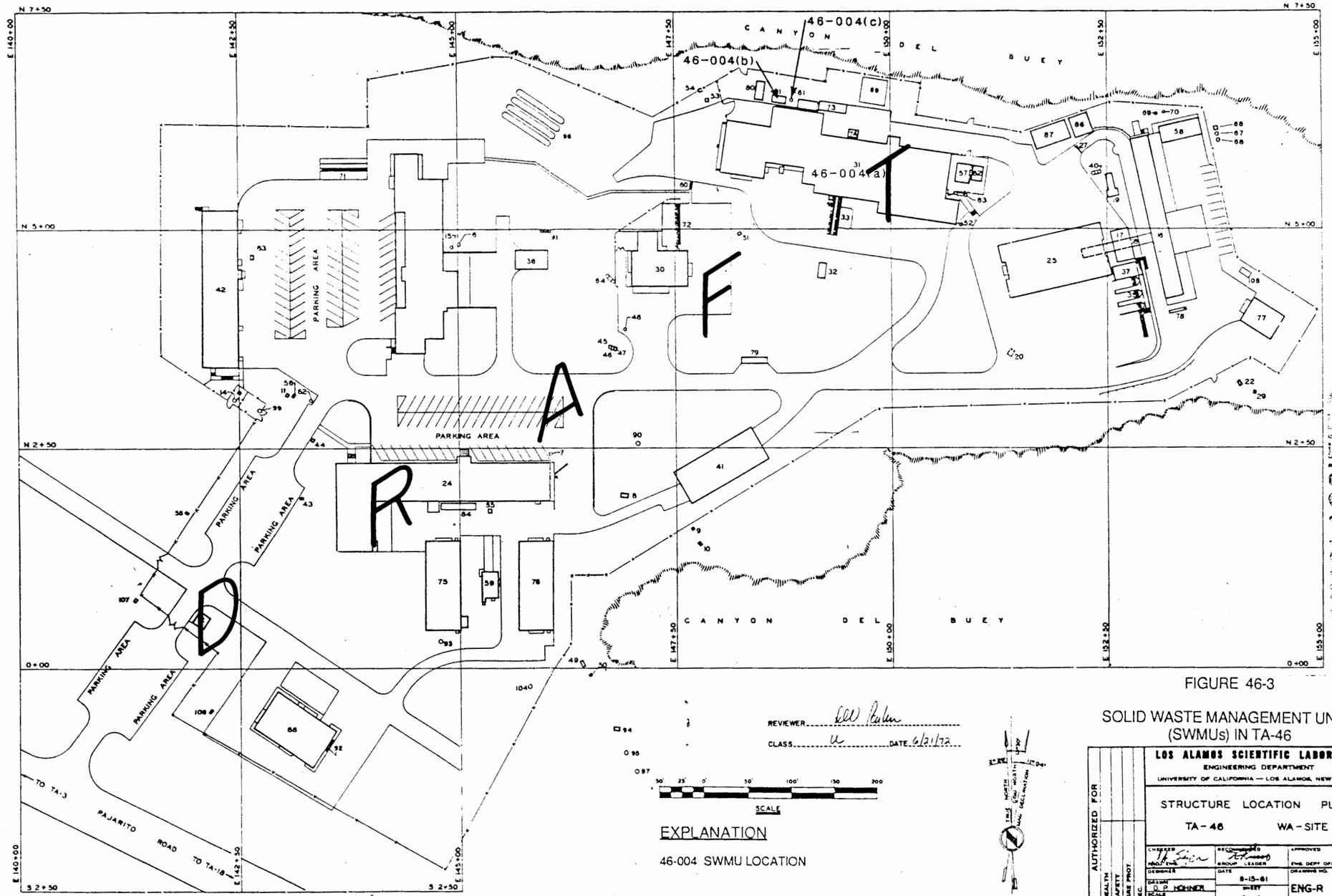


FIGURE 46-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-46

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

STRUCTURE LOCATION PLAN
TA-46 WA-SITE

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT, SEC.

CHECKED	RECOMMENDED	APPROVED
DESIGNER	DATE 8-15-61	DRAWING NO. ENG-R 2480
DRAWN D. D. HOHNER	SHEET 2 OF 2	
SCALE AS NOTED		

301215 02 01 B37

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-46-1	WA-1	LABORATORY BUILDING		N 5+00 E145+00
TA-46-2	WA-2	GUARD HOUSE	STATION # 415	N 2+50 E142+50
TA-46-3	WA-3	PEDISTAL	REMOVED 1960	
TA-46-4	WA-4	PEDISTAL	REMOVED 1960	
TA-46-5	WA-5	PEDISTAL	REMOVED 1960	
TA-46-6	WA-6	MANHOLE, SANITARY		N 5+00 E145+00
TA-46-7	WA-7	MANHOLE, SANITARY		N 2+50 E145+00
TA-46-8	WA-8	TANK, SEPTIC	ABANDONED 1973	N 2+50 E147+50
TA-46-9	WA-9	DISTRIBUTION BOX		N 2+50 E147+50
TA-46-10	WA-10	DISTRIBUTION BOX		N 2+50 E147+50
TA-46-11	WA-11	MANHOLE, ELECTRICAL		N 2+50 E142+50
TA-46-12	WA-12	MANHOLE, ELECTRICAL	REMOVED 1960	
TA-46-13	WA-13	TRANSFORMER STATION		N 2+50 E142+50
TA-46-14	WA-14	LIGHTING TRANSFORMER		N 2+50 E142+50
TA-46-15	WA-15	MANHOLE, STORM DRAINAGE		N 5+00 E145+00
TA-46-16	WA-16	TEST BUILDING NO. 1		N 5+00 E152+50
TA-46-17	WA-17	UTILITY BUILDING		N 5+00 E152+50
TA-46-18	WA-18	UTILITY TUNNEL		N 5+00 E152+50
TA-46-19	WA-19	TRANSFORMER STATION		N 5+00 E152+50
TA-46-20	WA-20	HOSE HOUSE		N 2+50 E152+50
TA-46-21	WA-21		CANCELLED	
TA-46-22	WA-22	TANK, SEPTIC	ABANDONED 1973	N 2+50 E155+00
TA-46-23	WA-23	ROAD BLOCK	REMOVED 1968	
TA-46-24	WA-24	LABORATORY & OFFICE BLDG.		N 2+50 E145+00
TA-46-25	WA-25	BATTERY BUILDING		N 5+00 E152+50
TA-46-26	WA-26		CANCELLED	
TA-46-27	WA-27	ROAD BLOCK	REMOVED 1980	
TA-46-28	WA-28	ROAD BLOCK	REMOVED 1967	
TA-46-29	WA-29	DISTRIBUTION BOX	ABANDONED 1973	N 2+50 E155+00
TA-46-30	WA-30	HYDRAULICS LABORATORY		N 5+00 E147+50
TA-46-31	WA-31	TEST BUILDING NO. 2		N 5+00 E150+00
TA-46-32	WA-32	SUBSTATION		N 5+00 E150+00
TA-46-33	WA-33	MANIFOLD	REMOVED 1975	
TA-46-34	WA-34	ROAD BLOCK	REMOVED 1967	
TA-46-35	WA-35	MANIFOLD		N 5+00 E152+50
TA-46-36	WA-36	STORAGE BUILDING		N 5+00 E145+00
TA-46-37	WA-37	PROPELLANT PUMP HSE. NO. 1		N 5+00 E152+50
TA-46-38	WA-38		CANCELLED	
TA-46-39	WA-39	COOLING TOWER	REMOVED 1968	
TA-46-40	WA-40	TRANSFORMER STATION		N 5+00 E152+50
TA-46-41	WA-41	WAREHOUSE		N 2+50 E147+50
TA-46-42	WA-42	SHOP & EQUIP CHECKOUT BLDG.		N 5+00 E142+50
TA-46-43	WA-43	MANHOLE, TELEPHONE		N 2+50 E142+50
TA-46-44	WA-44	MANHOLE, ELECTRICAL		N 2+50 E142+50
TA-46-45	WA-45	MANHOLE, ELECTRICAL		N 2+50 E147+50
TA-46-46	WA-46	MANHOLE, FIRE ALARM		N 2+50 E147+50
TA-46-47	WA-47	MANHOLE, TELEPHONE		N 2+50 E147+50
TA-46-48	WA-48	MANHOLE	ABANDONED 1973	N 5+00 E147+50
TA-46-49	WA-49	TANK SEPTIC	ABANDONED 1973	0+00 E147+50
TA-46-50	WA-50	DISTRIBUTION BOX	ABANDONED 1973	0+00 E147+50
TA-46-51	WA-51	MANHOLE, ELECTRICAL		N 5+00 E147+50
TA-46-52	WA-52	MANHOLE, ELECTRICAL		N 5+00 E150+00
TA-46-53	WA-53	TANK, SEPTIC	ABANDONED 1973	N 7+50 E147+50
TA-46-54	WA-54	DISTRIBUTION BOX	ABANDONED 1973	N 7+50 E147+50
TA-46-55	WA-55	MANHOLE, TELEPHONE		N 2+50 E142+50
TA-46-56	WA-56	MANHOLE, TELEPHONE		N 2+50 E142+50
TA-46-57	WA-57	SUBSTATION	RELOCATED TO TA-3-432	
TA-46-58	WA-58	LABORATORY & SHOP BUILDING		N 5+00 E152+50
TA-46-59	WA-59	ENGINEERING TEST BUILDING		0+00 E145+00
TA-46-60	WA-60	STAIRWAY		N 5+00 E147+50
TA-46-61	WA-61	MANHOLE, ACID SUMP		N 7+50 E150+00
TA-46-62	WA-62	MANHOLE	ABANDONED	N 2+50 E142+50
TA-46-63	WA-63	MANHOLE, ELECTRICAL		N 5+00 E142+50
TA-46-64	WA-64	TRANSFORMER STATION	REMOVED 198[illegible]	
TA-46-65	WA-65		CANCELLED	
TA-46-66	WA-66	TANK, SEPTIC	ABANDONED 1973	N 5+00 E152+50
TA-46-67	WA-67	SIPHON	ABANDONED 1973	N 5+00 E152+50
TA-46-68	WA-68	DISTRIBUTION BOX	ABANDONED 1973	N 5+00 E152+50
TA-46-69	WA-69	SUMP	ABANDONED 1973	N 7+50 E152+50
TA-46-70	WA-70	SUMP	ABANDONED 1973	N 7+50 E152+50
TA-46-71	WA-71	MANIFOLD		N 5+00 E142+50
TA-46-72	WA-72	MANIFOLD	REMOVED 1975	
TA-46-73	WA-73	TRAILER PAD	REMOVED 1975	
TA-46-74	WA-74	TEST FACILITY		N 5+00 E150+00
TA-46-75	WA-75	WAREHOUSE		0+00 E145+00
TA-46-76	WA-76	WAREHOUSE		0+00 E145+00
TA-46-77	WA-77	WAREHOUSE		N 5+00 E155+00
TA-46-78	WA-78	MANIFOLD, GAS		N 5+00 E152+50
TA-46-79	WA-79	DRUM STORAGE BUILDING		N 2+50 E147+50
TA-46-80	WA-80	TRANSFORMER STATION	REMOVED 1980	
TA-46-81	WA-81	CLEANUP TANK, ACID	REMOVED 1973	
TA-46-82	WA-82	TRANSFORMER STATION		N 5+00 E150+00
TA-46-83	WA-83	TRANSFORMER STATION		N 5+00 E150+00
TA-46-84	WA-84	TANK, VACUUM	REMOVED 1980	
TA-46-85	WA-85	MANHOLE, SANITARY	ABANDONED 1973	N 2+50 E145+00
TA-46-86	WA-86	COOLING TOWER		N 5+00 E152+50
TA-46-87	WA-87	PUMP HOUSE		N 5+00 E152+50
TA-46-88	WA-88	CORE SUPPORT FACILITY		S 2+50 E142+50
TA-46-89	WA-89		CANCELLED	
TA-46-90	WA-90	MANHOLE, WATER METER		N 2+50 E147+50
TA-46-91	WA-91	STAIRWAY		N 5+00 E145+00
TA-46-92	WA-92	MANIFOLD		S 2+50 E142+50
TA-46-93	WA-93	MANHOLE, SANITARY	ABANDONED 1974	0+00 E145+00
TA-46-94	WA-94	TANK, SEPTIC	ABANDONED 1974	S 2+50 E147+50
TA-46-95	WA-95	MANHOLE, SANITARY	ABANDONED 1974	S 2+50 E147+50
TA-46-96	WA-96	CYLINDER STORAGE TANK	RELOCATED TO TA-53	
TA-46-97	WA-97	DISTRIBUTION BOX, SANITARY	ABANDONED 1974	S 2+50 E147+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-46-98	WA-98	MANHOLE, ELECTRICAL	ELECTRICAL	N 2+50 E142+50
TA-46-100	WA-100		CANCELLED	
TA-46-101	WA-101		CANCELLED	
TA-46-102	WA-102	TRANSFORMER STATION	REMOVED 1968	
TA-46-104	WA-104	MANHOLE, WATER	WATER	0+00 E142+00
TA-46-105	WA-105	SUBSTATION, ELECTRICAL	ELECTRIC	N 5+00 E155+00
TA-46-106	WA-106	VOLTAGE REGULATOR	RELOCATED TO TA-3-377	
TA-46-107	WA-107	MANHOLE, TELEPHONE	TELEPHONE	0+00 E142+50
TA-46-108	WA-108	MANHOLE, TELEPHONE	TELEPHONE	0+00 E142+50
TA-46-109	WA-109		CANCELLED	
TA-46-110	WA-110		CANCELLED	
TA-46-111	WA-111	TANK LIQUID NITROGEN		0+00 E142+50
TA-46-112	WA-112		CANCELLED	
TA-46-113	WA-113		CANCELLED	
TA-46-114	WA-114	GAS TRAILER STATION		0+00 E145+00
TA-46-115	WA-115		CANCELLED	
TA-46-116	WA-116	TRANSFORMER STATION	REMOVED 1980	
TA-46-117	WA-117	CAPACITOR STATION	LOC. APPROX. 500' SE OF WA-116, TA-46	
TA-46-118	WA-118	TRANSFORMER STATION	LOC. APPROX. 700' SE OF WA-116, TA-46	
TA-46-119	WA-119	MODULAR OFFICE BLDG.		N 2+50 E147+50
TA-46-120	WA-120	MODULAR OFFICE BLDG.		0+00 E142+50
TA-46-121	WA-121	MODULAR OFFICE BLDG.		0+00 E142+50
TA-46-122	WA-122	GAS STORAGE SHED		N 2+50 E147+50
TA-46-123	WA-123	TRANSFORMER STATION		0+00 E142+50
TA-46-124	WA-124		CANCELLED	
TA-46-125	WA-125		CANCELLED	
TA-46-126	WA-126		CANCELLED	
TA-46-127	WA-127	TRANSFORMER STATION		N 2+50 E147+50
TA-46-128	WA-128	MODULAR OFFICE BLDG		N 5+00 E150+00
TA-46-129	WA-129	TRANSFORMER STATION		0+00 E145+00
TA-46-130	WA-130	TRANSFORMER STATION		0+00 E147+50
TA-46-131	WA-131	SOLAR PANELS		N 2+50 E152+50
TA-46-132	WA-132	MANHOLE, STORM DRAIN	STORM DRAIN	0+00 E142+50
TA-46-133	WA-133	MANHOLE, EXPERIMENTAL	EXPERIMENTAL	0+00 E145+00
TA-46-134	WA-134	GUARD STATION		0+00 E142+50
TA-46-135	WA-135	COLLECTION TANK PAD		N 5+00 E152+50
TA-46-136	WA-136	MANHOLE, SANITARY		0+00 E145+00
TA-46-137	WA-137	MANHOLE, SANITARY		0+00 E147+50
TA-46-138	WA-138	MANHOLE, SANITARY		0+00 E147+50
TA-46-139	WA-139	MANHOLE, SANITARY		N 2+50 E147+50
TA-46-140	WA-140	MANHOLE, SANITARY		N 2+50 E150+00
TA-46-141	WA-141	MANHOLE, SANITARY		N 2+50 E155+00
TA-46-142	WA-142	MANHOLE, SANITARY		N 2+50 E155+00
TA-46-143	WA-143	MANHOLE, SANITARY	NOT SHOWN	
TA-46-144	WA-144	MANHOLE, SANITARY		N 5+00 E155+00
TA-46-145	WA-145	MANHOLE, SANITARY		N 7+50 E155+00
TA-46-146	WA-146	MANHOLE, SANITARY		N 5+00 E150+00
TA-46-147	WA-147	MANHOLE, SANITARY		N 5+00 E147+50
TA-46-148	WA-148	MANHOLE, SANITARY		N 7+50 E147+50
TA-46-149	WA-149	STABILIZATION PIT	NOT SHOWN	
TA-46-150	WA-150		CANCELLED	
TA-46-151	WA-151	TRANSFORMER STATION	POLE MOUNTED-NOT SHOWN	
TA-46-152	WA-152		CANCELLED	
TA-46-153	WA-153	TRANSFORMER STATION	POLE MOUNTED-NOT SHOWN	
TA-46-154	WA-154	LASER ISOTOPE ENRICHMENT FAC.		N 7+50 E145+00
TA-46-155	WA-155	TRANSFORMER STATION	POLE MOUNTED-NOT SHOWN	
TA-46-156	WA-156	TRANSFORMER STATION	NOT SHOWN	
TA-46-157	WA-157		CANCELLED	
TA-46-158	WA-158	LASER INDUCED CHEMSTRY LAB		S2+50 E150+00
TA-46-159	WA-159	SUBSTATION	NOT SHOWN	
TA-46-160	WA-160	TRANSFORMER STATION		N5+00 E147+50
TA-46-161	WA-161	ACCELERATOR VAULT FACILITY		S2+50 E150+00
TA-46-162	WA-162	PULL BOX, TELEPHONE		N5+00 E145+00
TA-46-164	WA-164	TRANSFOMER STATION	LOC. APPROX 220' SE OF WA-118, TA-46	
TA-46-165	WA-165	TRANSPORTABLE OFFICE BLDG		N5+06 E150+00
TA-46-166	WA-166		CANCELLED	
TA-46-167	WA-167		CANCELLED	
TA-46-168	WA-168		CANCELLED	
TA-46-169	WA-169	COOLING TOWER		S2+50 E150+00
TA-46-172	WA-172	SWITCHING STATION, ELEC.	NOT SHOWN	
TA-46-173	WA-173	MANHOLE, ELECTRICAL	NOT SHOWN	
TA-46-174	WA-174	MANHOLE, ELECTRICAL	NOT SHOWN	
TA-46-175	WA-175	TRAILER, OFFICE		S2+50 E152+50
TA-46-176	WA-176	TRAILER, OFFICE		S2+50 E150+00
TA-46-177	WA-177	TRAILER, LABORATORY	FORMERLY TA-0-444	S2+50 E150+00
TA-46-178	WA-178	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1039	N2+50 E142+50
TA-46-179	WA-179	TRANSPORTABLE OFFICE BLDG.	FORMERLY TA-0-1040	N2+50 E142+50
TA-46-180	WA-180	TRAILER, OFFICE	FORMERLY TA-0-704	N5+00 E142+50
TA-46-181	WA-181	TRAILER, OFFICE	FORMERLY TA-0-714	0+00 E142+50
TA-46-182	WA-182	TRANSPORTABLE OFFICE BLDG	FORMERLY TA-0-1031	N2+50 E145+00
TA-46-183	WA-183	TRAILER, OFFICE	FORMERLY TA-0-682	N5+00 E147+50
TA-46-184	WA-184	TRAILER, OFFICE	FORMERLY TA-0-683	N5+00 E147+50
TA-46-185	WA-185	TRAILER, OFFICE	FORMERLY TA-0-442	N2+50 E147+50
TA-46-186	WA-186	TRAILER, OFFICE	FORMERLY TA-0-384	N2+50 E147+50
TA-46-187	WA-187	TRANSPORTABLE OFFICE BLDG	FORMERLY TA-0-1030	N5+00 E147+50
TA-46-188	WA-188	TRANSPORTABLE OFFICE BLDG	FORMERLY TA-0-1027	N5+00 E147+50
TA-46-189	WA-189	TRAILER, OFFICE	FORMERLY TA-0-664	N5+00 E150+00
TA-46-190	WA-190	TRAILER, OFFICE	FORMERLY TA-0-194	N2+50 E150+00
TA-46-191	WA-191	TRAILER, OFFICE	FORMERLY TA-0-385	N2+50 E150+00
TA-46-194	WA-194	SOLAR HOUSE	FORMERLY TA-0-680	S2+50 E147+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-46-195	WA-195	SOLAR HOUSE	FORMERLY TA-0-681	S2+50 E150+00
TA-46-196	WA-196	GAS MANIFOLD		N5+00 E147+50
TA-46-197	WA-197	STORAGE SHED		N2+50 E147+50

UNCLASSIFIED

FIGURE 46-4

TA-46 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
18	8-1-83	REVISED TITLE BLOCK & DWG TO STATUS OF 6-29-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-46 WA-SITE

SEC CLASSIFICATION
CLASS U
REVIEWER
DATE 4-1983

SUBMITTED
RECOMMENDED
APPROVED

DRAWN H. SALDADO
CHECKED
DATE 6-29-83
SHEET NO. 1 OF 2
DRAWING NO ENG-R 5124

301215 02 01 B57

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-46-1	WA-1	LABORATORY BUILDING		N 5+00 E145+00
TA-46-2	WA-2	GUARD HOUSE		N 2+50 E142+50
TA-46-3	WA-3		REMOVED 1960	
TA-46-4	WA-4		REMOVED 1960	
TA-46-5	WA-5		REMOVED 1960	
TA-46-6	WA-6	MANHOLE	SANITARY	N 5+00 E145+00
TA-46-7	WA-7	MANHOLE	SANITARY	N 2+50 E145+00
TA-46-8	WA-8	TANK	SEPTIC	N 2+50 E147+50
TA-46-9	WA-9	DISTRIBUTION BOX	SANITARY	N 2+50 E147+50
TA-46-10	WA-10	DISTRIBUTION BOX	SANITARY	N 2+50 E147+50
TA-46-11	WA-11	MANHOLE	ELECTRICAL	N 2+50 E142+50
TA-46-12	WA-12		REMOVED 1960	
TA-46-13	WA-13	SUBSTATION, RELOCATED TO TA-18-142		N 2+50 E142+50
TA-46-14	WA-14	SUBSTATION		N 2+50 E142+50
TA-46-15	WA-15	MANHOLE	STORM DRAINAGE	N 5+00 E145+00
TA-46-16	WA-16	TEST BUILDING NO. 1		N 5+00 E152+50
TA-46-17	WA-17	UTILITY BUILDING		N 5+00 E152+50
TA-46-18	WA-18	UTILITY TUNNEL		N 5+00 E152+50
TA-46-19	WA-19	SUBSTATION		N 5+00 E152+50
TA-46-20	WA-20	HOSE HOUSE		N 2+50 E152+50
TA-46-21	WA-21		CANCELLED	
TA-46-22	WA-22	TANK	SEPTIC	N 2+50 E155+00
TA-46-23	WA-23		REMOVED 1968	
TA-46-24	WA-24	LABORATORY & OFFICE BLDG.		N 2+50 E145+00
TA-46-25	WA-25	BATTERY BUILDING		N 5+00 E152+50
TA-46-26	WA-26		CANCELLED	
TA-46-27	WA-27	ROAD BLOCK		N 5+00 E152+50
TA-46-28	WA-28		REMOVED 1967	
TA-46-29	WA-29	DISTRIBUTION BOX	SANITARY	N 2+50 E155+00
TA-46-30	WA-30	HYDRAULICS LABORATORY		N 5+00 E147+50
TA-46-31	WA-31	TEST BUILDING NO. 2		N 5+00 E150+00
TA-46-32	WA-32	SUBSTATION		N 5+00 E150+00
TA-46-33	WA-33	MANIFOLD		N 5+00 E150+00
TA-46-34	WA-34		REMOVED 1967	
TA-46-35	WA-35	MANIFOLD		N 5+00 E152+50
TA-46-36	WA-36	STORAGE BUILDING		N 5+00 E145+00
TA-46-37	WA-37	PROPELLANT PUMP HSE. NO. 1		N 5+00 E152+50
TA-46-38	WA-38		CANCELLED	
TA-46-39	WA-39		REMOVED 1968	
TA-46-40	WA-40	TRANSFORMER STATION		N 5+00 E152+50
TA-46-41	WA-41	WAREHOUSE		N 2+50 E147+50
TA-46-42	WA-42	SHOP & EQUIP. CHECKOUT BLDG.		N 5+00 E142+50
TA-46-43	WA-43	MANHOLE	TELEPHONE	N 2+50 E142+50
TA-46-44	WA-44	MANHOLE	ELECTRICAL	N 2+50 E142+50
TA-46-45	WA-45	MANHOLE	ELECTRICAL	N 2+50 E147+50
TA-46-46	WA-46	MANHOLE	FIRE ALARM	N 2+50 E147+50
TA-46-47	WA-47	MANHOLE	TELEPHONE	N 2+50 E147+50
TA-46-48	WA-48	MANHOLE	SANITARY	N 5+00 E147+50
TA-46-49	WA-49	TANK	SEPTIC	0+00 E147+50
TA-46-50	WA-50	DISTRIBUTION BOX	SANITARY	0+00 E147+50
TA-46-51	WA-51	MANHOLE	ELECTRICAL	N 5+00 E147+50
TA-46-52	WA-52	MANHOLE	ELECTRICAL	N 5+00 E150+00
TA-46-53	WA-53	TANK	SEPTIC	N 7+50 E147+50
TA-46-54	WA-54	DISTRIBUTION BOX	SANITARY	N 7+50 E14[illegible]50
TA-46-55	WA-55	MANHOLE	TELEPHONE	N 2+50 E[illegible]2+50
TA-46-56	WA-56	MANHOLE	TELEPHONE	N 2+50 E[illegible]2+50
TA-46-57	WA-57	SUBSTATION		N 5+00 E[illegible]
TA-46-58	WA-58	LABORATORY & SHOP BUILDING		N 5+00 E[illegible]2+50
TA-46-59	WA-59	ENGINEERING TEST BUILDING		0+00 E[illegible]5+00
TA-46-60	WA-60	STAIRWAY		N 5+00 E[illegible]7+50
TA-46-61	WA-61	MANHOLE	ACID SUMP	N 7+50 E[illegible]0+00
TA-46-62	WA-62	MANHOLE	SANITARY	N 2+50 E142+50
TA-46-63	WA-63	MANHOLE	ELECTRICAL	N 5+00 E142+50
TA-46-64	WA-64	TRANSFORMER STATION		N 5+00 E147+50
TA-46-65	WA-65		CANCELLED	
TA-46-66	WA-66	TANK	SEPTIC	N 5+00 E152+50
TA-46-67	WA-67	SIPHON	SANITARY	N 5+00 E152+50
TA-46-68	WA-68	DISTRIBUTION BOX	SANITARY	N 5+00 E152+50
TA-46-69	WA-69	SUMP	ACID DRAIN	N 7+50 E152+50
TA-46-70	WA-70	SUMP	ACID DRAIN	N 7+50 E152+50
TA-46-71	WA-71	MANIFOLD		N 5+00 E142+50
TA-46-72	WA-72	MANIFOLD		N 5+00 E147+50
TA-46-73	WA-73	TRAILER PAD		N 7+50 E150+00
TA-46-74	WA-74	TEST FACILITY		N 5+00 E150+00
TA-46-75	WA-75	WAREHOUSE		0+00 E145+00
TA-46-76	WA-76	WAREHOUSE		0+00 E145+00
TA-46-77	WA-77	WAREHOUSE		N 5+00 E155+00
TA-46-78	WA-78	MANIFOLD	GAS	N 5+00 E152+50
TA-46-79	WA-79	DRUM STORAGE BUILDING		N 2+50 E147+50
TA-46-80	WA-80	TRANSFORMER STATION		N 7+50 E147+50
TA-46-81	WA-81	TANK	CLEANUP, ACID	N 7+50 E147+50
TA-46-82	WA-82	SUBSTATION		N 5+00 E150+00
TA-46-83	WA-83	TRANSFORMER STATION		N 5+00 E150+00
TA-46-84	WA-84	TANK	VACUUM, FORMERLY AT TA49	N 2+50 E145+00
TA-46-85	WA-85	MANHOLE	SANITARY	N 2+50 E145+00
TA-46-86	WA-86	COOLING TOWER		N 5+00 E152+50
TA-46-87	WA-87	PUMP HOUSE		N 5+00 E152+50
TA-46-88	WA-88	CORE SUPPORT FACILITY		S 2+50 E142+50
TA-46-89	WA-89	LIQUID HYDROGEN FACILITY		N 7+50 E150+00
TA-46-90	WA-90	MANHOLE	WATER METER	N 2+50 E147+50
TA-46-91	WA-91	STAIRWAY		N 5+00 E145+00
TA-46-92	WA-92	MANIFOLD		S 2+50 E142+50
TA-46-93	WA-93	MANHOLE	SANITARY	0+00 E145+00
TA-46-94	WA-94	TANK	SEPTIC	S 2+50 E147+50
TA-46-95	WA-95	MANHOLE	SANITARY	S 2+50 E147+50
TA-46-96	WA-96	CYLINDER STORAGE TANK		N 7+50 E145+00
TA-46-97	WA-97	DISTRIBUTION BOX	SANITARY	S 2+50 E147+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-46-99	WA-99	MANHOLE	ELECTRICAL	N 2+50 E142+50
TA-46-100	WA-100			
TA-46-101	WA-101			
TA-46-102	WA-102		REMOVED 1968	
TA-46-103	WA-103			
TA-46-104	WA-104	MANHOLE	WATER	0+00 E145+00
TA-46-105	WA-105	SUBSTATION	ELECTRIC	N 5+00 E155+00
TA-46-106	WA-106	VOLTAGE REGULATOR	MOVED TO TA-3-377	
TA-46-107	WA-107	MANHOLE	TELEPHONE	N 0+00 E142+50
TA-46-108	WA-108	MANHOLE	TELEPHONE	N 0+00 E142+50
TA-46-109	WA-109	CHEMICAL LASER FACILITY	PROPOSED	
TA-46-110	WA-110	LASER FACILITY BUILDING	PROPOSED	
TA-46-111	WA-111	TANK LIQUID NITROGEN	PROPOSED	
TA-46-112	WA-112	PLATFORM	PROPOSED	
TA-46-113	WA-113	LAB OFFICE BUILDING	PROPOSED	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 46-5

TA-46 STRUCTURE LOCATION INDEX

NO	DATE	REVISIONS	BY	CHKD	GRP LDR	ENG LDR
10	5-9-72	REVISED TO STATUS OF 5-9-72	URN			
9	12-15-69	REVISED TO STATUS OF 12-15-69	DAD			
8	5-1-69	REVISED TO STATUS OF 5-1-69	DAD			
7	10-15-65	REVISED TO STATUS OF 8-15-65	ERW			
6	3-2-64	REVISED TO STATUS OF 1-23-64	JCG			
5	8-15-61	REDRAWN TO STATUS OF 8-11-61 (WAS ENG-R177)	JCG			

REVIEWER

CLASS DATE

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

INDEX SHEET

STRUCTURE LOCATION PLAN

TA-46 WA-SITE

CHECKED: GROUP LEADER — RECOMMENDED: GROUP LEADER — APPROVED: ENG DEPT OFFICE

DESIGNER — DATE 8-15-81 — DRAWING NO.

DRAWN LOGGAINS — SHEET 1 OF 2 — ENG-R 2479

SCALE NONE

UNCLASSIFIED

TA-47

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 47 no longer exists as a site, having been abandonded by the Laboratory in 1958. Its former location is in downtown Santa Fe, near the intersection of Cerrillos Road and St. Michaels Drive. This technical area does not have any solid waste management units from laboratory activities.

DRAFT

TA-48

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 48 is used for chemical and radiochemical analyses. Activities are related to weapons, waste disposal, basic research, and radioisotope production for nuclear medicine. Materials handled on site include very small quantities of uranium, transuranics, fission products, and tritium activation products, various acids, and organic chemicals.

TA-48 lies at elevations between 7,300 and 7,330 feet asl. It is located on the long, narrow finger mesa formed between Mortandad Canyon on the north and Pajarito Canyon on the south. Canyon walls are steep or cliffs in this area. TA-48 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone.

Two soil series are present at TA-48. The Tocal very fine sandy loam series are shallow to very shallow (20 to 50 cm), well-drained soils that form on tuff on gentle to moderate slopes. The permeability is moderately slow (0.5 to 1.6 cm/h), and the available water-holding capacity is low. Runoff is medium (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute precipitation event on bare soil), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr, the potential soil loss from an unprotected surface). The Carjo loam is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr).

At TA-48, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,100 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer (IT, 1987).

48-001 AIR EXHAUST SYSTEM

SUMMARY

LOCATION: TA-48
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1950's - PRESENT

UNIT INFORMATION

In the Alpha Wing of Building 1, filtration is not used on the hoods because of possible problems with clogging and corrosion. No air scrubbers are currently being used. Approximately one-half to one-third of the major acids used are vented to the hoods.

WASTE INFORMATION

The wastes discharged contain acids including hydrochloric, hydrofluoric, nitric and perchloric. Mixed fission products, uranium and plutonium are in the airborne releases.

RELEASE INFORMATION

Because of the long history of operation at this facility, ground deposition of airborne releases may have resulted in contamination surrounding the building. In 1984, airborne releases were 1566, 1.3 and 2.6 microcuries of mixed fission products, uranium and plutonium, respectively. As there are no filters in use, it is expected that acidic vapors have also been released.

DRAFT

48-002 CONTAINER STORAGE AREAS

SUMMARY

LOCATION: TA-48
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: EST. 1957 - PRESENT

UNIT INFORMATION

An active satellite container storage area is located at TA-48-1; the area stores waste solvents (cutting oil). The CEARP noted that on the south side of Building 1 [48-002(a)], there were a number of mercury flasks estimated to have been there for five to ten years. A November 1988 field survey found that the flasks had been emptied of mercury but the flasks, with visible interior residues, remain in the original storage site. Additionally the CEARP noted container storage in several other areas in TA-48. The drums and cans were unlabeled. The November 1988 field survey noted unmarked drums and cans in the outside storage area east of TA-48-1 [48-002(b)]. Lead battery and lead brick storage were also observed during this survey in other outside locations.

WASTE INFORMATION

Waste solvents are stored at TA-48-1; mercury and other unknown wastes and materials were stored previously. Some of the areas contain lead bricks and old batteries. The waste stored in the present unmarked drums appears to include oils and miscellaneous waste.

RELEASE INFORMATION

Although the mercury flasks were noted to be corroding, no leaks were observed during the CEARP inspection. The November 1989 field survey noted oil spills in two areas, apparently due to leaky drums. The area associated with the vacuum system condenser is discharging oil to a drainage area east of TA-48-1.

DRAFT

48-003 INACTIVE SEPTIC SYSTEM

SUMMARY

LOCATION: TA-48
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1957 - 1986

UNIT INFORMATION

This unit consists of a septic tank, TA-48-5 [48-003(a)], and a filter bed, TA-48-6 [48-003(b)]. The tank was used to dispose of sanitary liquid wastes. The tank and filter bed are no longer in use; however, the status of the tank is unknown. Engineering records do not indicate removal. The filter bed has been removed or covered. The waste that was handled by this septic system now discharges to sanitary lagoons in Mortandad Canyon below TA-35.

WASTE INFORMATION

The septic system managed sanitary waste; there is a possibility that chemical waste, such as photo processing solutions, radionuclides, and chemicals were discharged to this tank.

RELEASE INFORMATION

It is unknown whether a hazardous release has occurred. The status of the system is unknown.

DRAFT

SUMMARY

LOCATION: TA-48
TYPE OF UNIT(s): SUMP/TANK
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1950's - 1970's

UNIT INFORMATION

The sumps and tanks at TA-48 were all part of the neutralization process in TA-48-1 and were used before the waste was piped without pre-treatment to TA-50 for treatment. The tanks and sumps were not used after the 1970's and were abandoned in place in 1982, some of which were subsequently removed. The inactive sumps and tanks remaining in TA-48-1 include the following: 1) Two sumps are below the floor of the shop room [48-004(a)]; one is approximately 4' x 3' x 2' deep and the other is about 6' x 6' x 5' deep. 2) Three sets of tanks are in the south basement, Room 80 [48-004(b)]. One set is located in a pit. In addition, there is a sump in the pit area. 3) Two tanks are located in the north basement [48-004(c)]. 4) A tank is located below a hot cell in the basement [48-004(d)]. This tank may never have been used. The treated liquids were sent to TA-50 for further processing. The mud was drummed and buried in the contaminated disposal area.

WASTE INFORMATION

The mixed wastes were liquid wastes generated in the chemical operations at TA-48. The waste mud in the second set of tanks in the south basement had radionuclide contamination. The tanks in the north basement contained sodium hydroxide solutions.

RELEASE INFORMATION

There were no known releases of hazardous materials.

DRAFT

48-005 WASTE LINES

SUMMARY

LOCATION: TA-48
TYPE OF UNIT(s): WASTE LINE
UNIT USE: TRANSPORT
OPERATIONAL STATUS: INACTIVE/DECOMMISSIONED
PERIOD OF USE: 1957 - 1982

UNIT INFORMATION

Over the years of operations in TA-48, various waste lines have been used to transport the liquid wastes to the specific treatment plant then in operation. Most of the inactive lines have been removed.

WASTE INFORMATION

The liquid wastes contained radionuclides and chemicals.

RELEASE INFORMATION

In March 1982, an investigation determined that the source of ponding water at the northeast corner of Building 1 was a broken radioactive waste line over a leaking water main. The break and leaks were repaired, and the contaminated soil was removed.

DRAFT

48-006 ACTIVE SEPTIC SYSTEM

SUMMARY

LOCATION: TA-48
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: MID 1980's - PRESENT

UNIT INFORMATION

An active septic system is structure number TA-48-32, located northwest of TA-48-29. The system consists of two 1,000 gallon tanks connected in parallel. The overflow from this unit goes to a seepage pit. It serves about 70 people in 6 transportable office buildings. The system required frequent pumping prior to 1986 when a blockage was removed from the line between the tank and the pit.

WASTE INFORMATION

The system is believed to manage only sanitary wastes as the buildings served consist of offices.

RELEASE INFORMATION

This system has not managed hazardous waste so far as is known.

DRAFT

TA-48 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
48-001	48-1
48-002(a)	48-1
48-002(b)	48-1
48-003(a)	48-1
48-003(b)	48-1
48-004(a)	48-1
48-004(b)	48-1
48-004(c)	48-1
48-004(d)	48-1
48-005	48-3
48-006	48-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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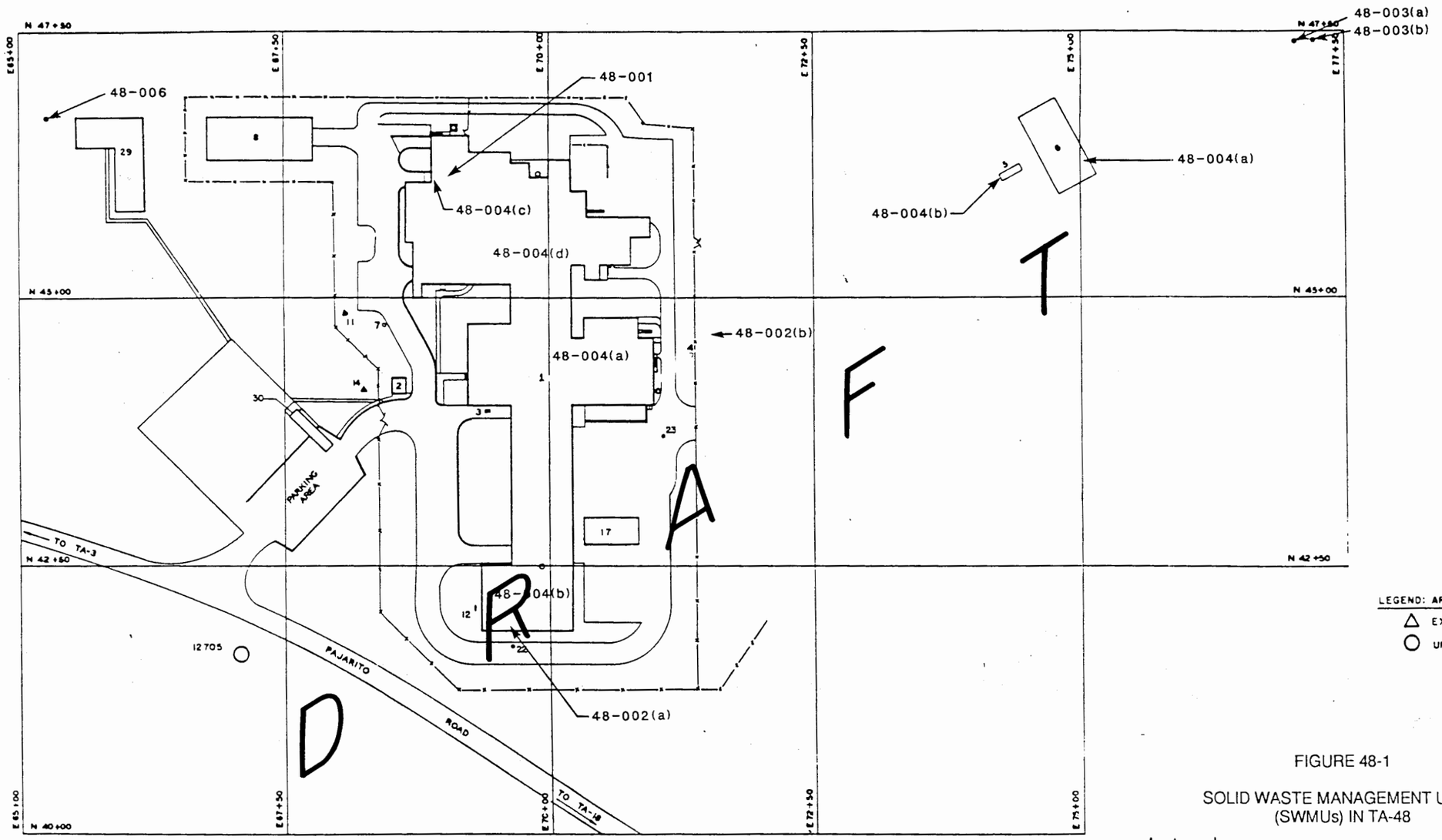

FIGURE 48-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-48

EXPLANATION

48-001 SWMU LOCATION

1" = 50'

GRAPHIC SCALE

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
10	7-20-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-20-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-48 RADIOCHEMISTRY SITE

DOE CLASSIFICATION: CLASS. U

DATE 10-7-83

DRAWN

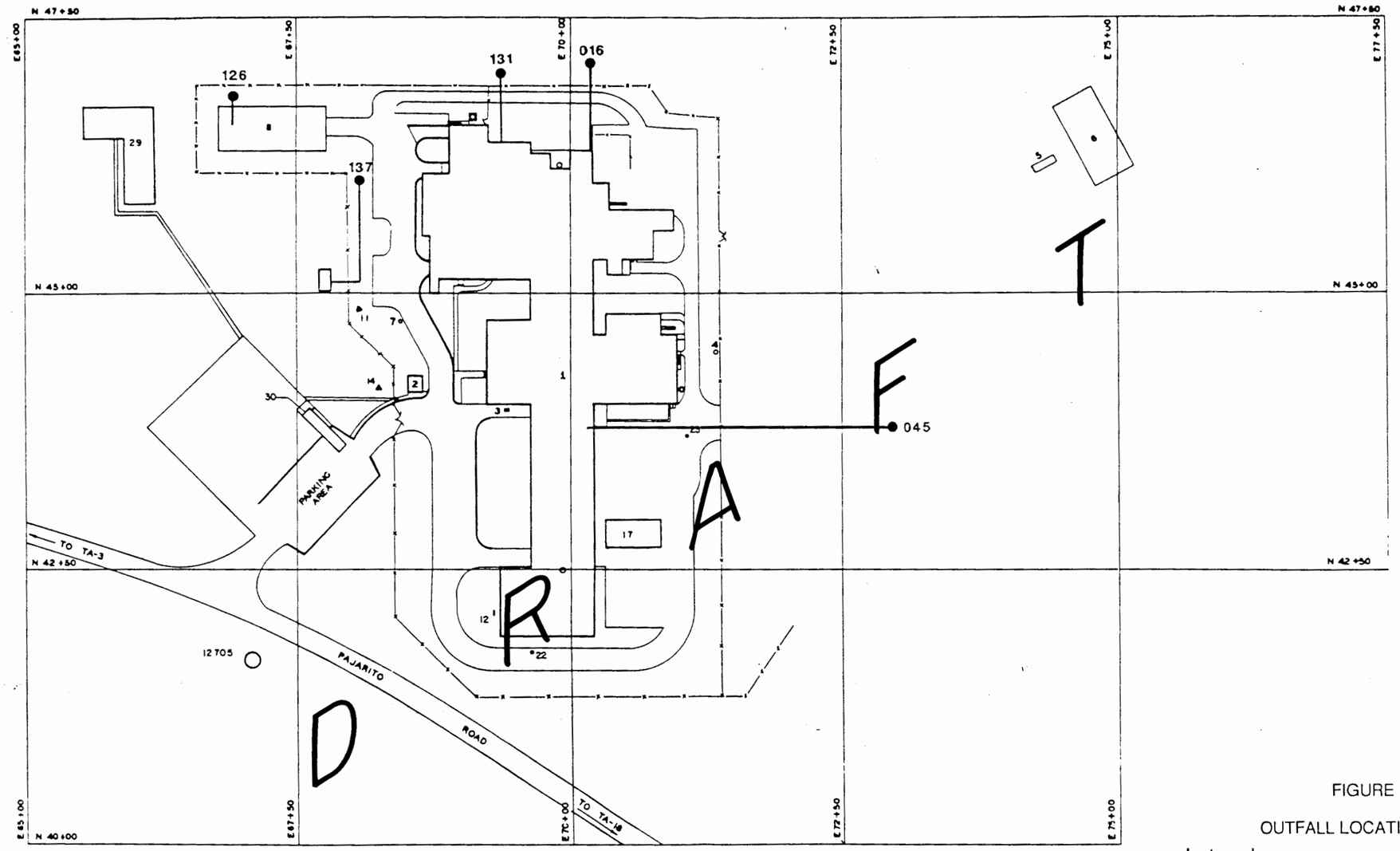
DESIGNED

DATE 7-20-83

SHEET NO. 2 OF 2

DRAWING NO. ENG-R5125

301215 01 B77



LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

FIGURE 48-2

OUTFALL LOCATIONS IN TA-48

EXPLANATION

010

● LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

1" = 50'

GRAPHIC SCALE

TRUE NORTH
MAG NORTH
MAG DECLINATION

UNCLASSIFIED

REV.	DATE	REVISION	BY	CKD	APP
10	7-20-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-20-83	HS		

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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

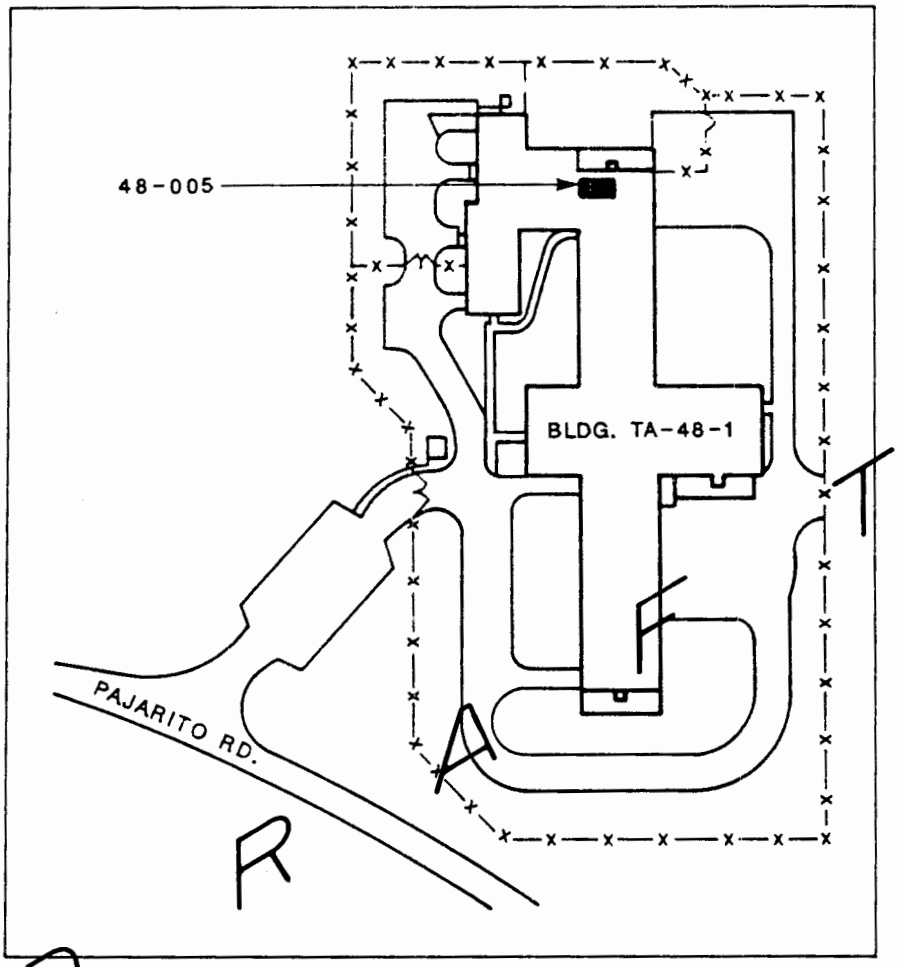
STRUCTURE LOCATION PLAN

TA-48 RADIOCHEMISTRY SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 10-7-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 7-20-83; SHEET NO. 2 OF 2; DRAWING NO. ENG-R5125



From Los Alamos Scientific Laboratory Engineering Department.
Drawing No. Eng-C 34595

EXPLANATION

48-001 SWMU LOCATION

NOTES

UNIT 48-005: DRAWING SHOWS LOCATION OF ACID WASTE SYSTEM INSTALLED IN 1968

FIGURE 48-3

LOCATION OF SOLID WASTE MANAGEMENT UNIT TA 48-005

PREPARED FOR

LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO

INTERNATIONAL TECHNOLOGY CORPORATION

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"Do Not Scale This Drawing"

DRAWING NUMBER 301215 02 01 A1

DRA BY	SR	CHECKED BY	
	11/10/88	APPROVED BY	

133974

301215 02 01 B38

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-48-1	RC-1	LABORATORY BUILDING		N45+00 E72+50
TA-48-2	RC-2	GUARD HOUSE		N45+00 E70+00
TA-48-3	RC-3	MANHOLE, STORM		N45+00 E72+50
TA-48-4	RC-4	MANHOLE, SANITARY		N45+00 E75+00
TA-48-5	RC-5	SEPTIC TANK, SANITARY		N47+50 E77+50
TA-48-6	RC-6	FILTER BED, SANITARY		N47+50 E77+50
TA-48-7	RC-7	MANHOLE, ELECTRICAL		N45+00 E67+50
TA-48-8	RC-8	GENERAL STORAGE BUILDING		N47+50 E67+50
TA-48-9	RC-9	WEIGHING RACK	REMOVED 1981	
TA-48-10	RC-10	MANHOLE, ACID	NOT SHOWN	
TA-48-11	RC-11	TRANSFORMER STATION		N45+00 E67+50
TA-48-12	RC-12	GAS METERING STATION		N42+50 E70+00
TA-48-13	RC-13		CANCELLED	
TA-48-14	RC-14	TRANSFORMER STATION		N45+00 E67+50
TA-48-15	RC-15	LAWN BUILDING		
TA-48-16	RC-16		CANCELLED	
TA-48-17	RC-17	ASSEMBLY & CHECKOUT BLDG		N42+50 E70+00
TA-48-18	RC-18	ACID MANHOLE	NOT SHOWN	
TA-48-19	RC-19	ACID MANHOLE	NOT SHOWN	
TA-48-20	RC-20	ACID MANHOLE	NOT SHOWN	
TA-48-21	RC-21	ACID MANHOLE	NOT SHOWN	
TA-48-22	RC-22	ACID MANHOLE		N42+50 E70+00
TA-48-23	RC-23	ACID MANHOLE		N42+50 E70+00
TA-48-26	RC-26	STORAGE BLDG.		
TA-48-27	RC-27		CANCELLED	
TA-48-28	RC-28	INSTRUMENT BLDG		
TA-48-29	RC-29	TRANSPORTABLE OFFICE BLDG	FORMERLY TA-0-120	N45+00 E67+50
TA-48-30	RC-30	TRAILER, OFFICE	FORMERLY TA-0-535	N45+00 E67+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

UNCLASSIFIED

FIGURE 48-4

TA-48 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
8	7-20-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-20-83	HS		

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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET

STRUCTURE LOCATION PLAN

TA-48 RADIOCHEMISTRY SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 10 18 83

SUBMITTED | RECOMMENDED | APPROVED

DRAWN | CHECKED

DATE 7-20-83 | SHEET NO 1 OF 2 | DRAWING NO ENG-R5125

TA-49

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 49 has served as a buffer for the explosives testing at TA-15. Earlier experiments using fissile material, high explosives, and small quantities of radioactive tracers were performed here. Other types of small experiments (including one presently on site) have been conducted at TA-49.

TA-49 lies at elevations between 7,100 and 7,180 feet asl. It is located on Frijoles Mesa, which is a broad mesa between Water Canyon on the north and Ancho Canyon on the south. Canyon walls are steep or cliffs in this area. TA-49 lies on welded Bandelier Tuff. The area is chiefly in the Piñon-Juniper overstory vegetation zone.

Two principal soil series are present at TA-49. The first is described as Hackroy Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event). The other major soil series at TA-40 is the Typic Eutroboralfs fine-loamy soil. These are deep (150 cm or more), well-drained soils, formed on tuff on nearly level to gently sloping mesa tops. The premeability of the soils is moderately slow (0.5 to 1.6 cm/h), the available water-holding capacity is high, and the runoff is low (0.0 to 0.13 cm, measured as the soil loss from a two-year, 30-minute event on an unprotected surface). The erosion hazard, measured as the loss from an unprotected soil surface, is moderate (0.65 to 1.8 cm soil/yr).

At TA-49, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,000 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground-water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): SHAFT
UNIT USE: TESTING/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1959 - 1961

UNIT INFORMATION

Four separate areas, collectively known as Material Disposal Area AB, contain the remains of hydronuclear and other types of experiments. These experiments were usually conducted in 3 or 6 ft. diameter holes at depths of 31 to 108 ft. The experimental configurations were placed near the bottom of each hole and detonated. After the completion of measurements and samples, each hole was usually backfilled with sand and sealed with concrete. Most of the holes were bored on 25 ft. centers in 100 ft. square grid patterns. Contaminated materials were left in the experimental areas. One or more holes in each experimental area were used to permit confined expansion of gases, including particulates containing some radionuclide contamination, passing through the sample collection devices. Some of the 6-ft-diameter holes were used to dispose of pipes and other equipment were contaminated during the experiments. Steel boxes buried adjacent to the experimental holes were used to contain sample collection equipment and became contaminated. These boxes were usually filled with concrete and left in place.

WASTE INFORMATION

Waste consisted of the radionuclides uranium-235 and -238, plutonium, fission fragments, and a small amount of tritium (which has now greatly decayed). Beryllium, large quantities of lead, aluminum, steel, iron, cables, rock debris and trace amounts organics are also present. One of the areas contains a small quantity of barium.

RELEASE INFORMATION

Above-background levels of gross alpha were measured at the surface in Experimental Area 2 in December 1960 and were traced to cuttings from Experimental Hole 2-M. Radioactive material had apparently been dispersed through fractures in the tuff by detonation of an experiment in an adjacent experimental hole. All surface soil contamination measurable by standard procedures and instruments was collected and placed back in Experimental Hole 2-M. The experimental hole was then filled with clean sand and capped with concrete. The entire surface of Area 2 was covered with compacted aggregate in January 1961 and sealed with a 4- to 6-in.-thick asphalt pad in September 1961. This inadvertent contamination incident left some remaining trace amounts of radionuclides on the surface in the vicinity of TA-49. The experimental area to the west (Area 2A) and south (Area 2B) were not covered and sealed. Occasionally, sample recovery resulted in some slight surface contamination in Areas 2 and 4. Waste residues from the experiments remain in situ. Samples collected from wells completed in the main aquifer show no groundwater contamination.

49-002 UNDERGROUND EXPERIMENTAL CHAMBER

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): CHAMBER
UNIT USE: OTHER: CALIBRATION
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1960's

UNIT INFORMATION

This unit, located at TA-49-62, consisted of two shafts, an elevator shaft and a calibration shaft 64'3" deep and 6' in diameter connected at the bottom by a gallery 4' wide, 7' long and 7' high with a 14' diameter x 10'(max. height) calibration room. The room was lined with 8" reinforced concrete faced with 1" steel plate.

WASTE INFORMATION

At one time the calibration room contained a lead-containing canister and lead bricks used as shielding. Radioactive materials were handled in the complex. Beryllium pieces may have been utilized also.

RELEASE INFORMATION

It is believed that all lead and other possible contaminants have been removed, although written documentation is lacking.

DRAFT

49-003 RADIOCHEMISTRY LAB LEACH FIELD

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): LEACH FIELD
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960 - 1961

UNIT INFORMATION

This leach field, located at Area 11, once served the sink drain for the radiochemistry facility which has since been removed. The leach field remains in place.

WASTE INFORMATION

Wastes include acids, organics and other laboratory chemicals in addition to plutonium, uranium, fission fragments, lead, and possibly very small amounts of beryllium.

RELEASE INFORMATION

There is not sufficient field data at present to determine the area of contamination.

DRAFT

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): OPEN BURNING/LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1959 - 1984

UNIT INFORMATION

The landfill which included open burning was used for disposal of residues from TA-49 during 1959 to 1961. This area was located in the north part of the site. During the 1971 cleanup operations, a pit was excavated in this same area and was used for disposal of uncontaminated material from Area 11. In 1984, the area was reopened by digging a region approximately 15' x 30' x 100' for burial of debris collected from the 1984 cleanup of TA-49.

WASTE INFORMATION

The wastes contained ash and solid wastes free of radionuclides. Only radiation was checked for during decommissioning, however, the presence of hazardous materials is unlikely.

RELEASE INFORMATION

There have been no known releases other than combustion products associated with this unit.

DRAFT

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1984

UNIT INFORMATION

In addition to reopening the old landfill area in 1984 (see 49-004), two small disposal areas were created. One is described as a small pit north of the road and to the east of Area 10 [49-005(a)]. The other is described as utilizing an existing sump or pit in Area 5 [49-005(b)].

WASTE INFORMATION

The waste consisted mainly of noncontaminated debris removed from the site during 1984 cleanup operations.

RELEASE INFORMATION

There are no known releases associated with these units.

DRAFT

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): SUMP
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: EST. 1959 - 1960's

UNIT INFORMATION

Structural information and total number of units is unavailable. The sumps were located in TA-49, Area 5.

WASTE INFORMATION

Liquids were collected in the sumps. In one case, these probably included spent photo solutions. One of the sumps was used only for emergency collection of water to prevent room flooding.

RELEASE INFORMATION

There are no known hazardous releases associated with these units.

DRAFT

SUMMARY

LOCATION: TA-49
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1985 - PRESENT

UNIT INFORMATION

Septic Tank TA-49-11B [49-007(a)] has a volume of 1,000 gallons and Septic Tank TA-49-119 [49-007(b)] has a volume of 1,500 gallons. The systems were designed to use an evapotranspiration mound, but the mounds were not completed and no outlets were constructed from the tanks. The tanks are pumped periodically as a result. Neither system is used extensively. Two open ponds remain on site as the uncompleted mounds.

WASTE INFORMATION

The tanks receive only sanitary wastes.

RELEASE INFORMATION

The tanks are periodically pumped. There are no hazardous releases associated with these units.

DRAFT

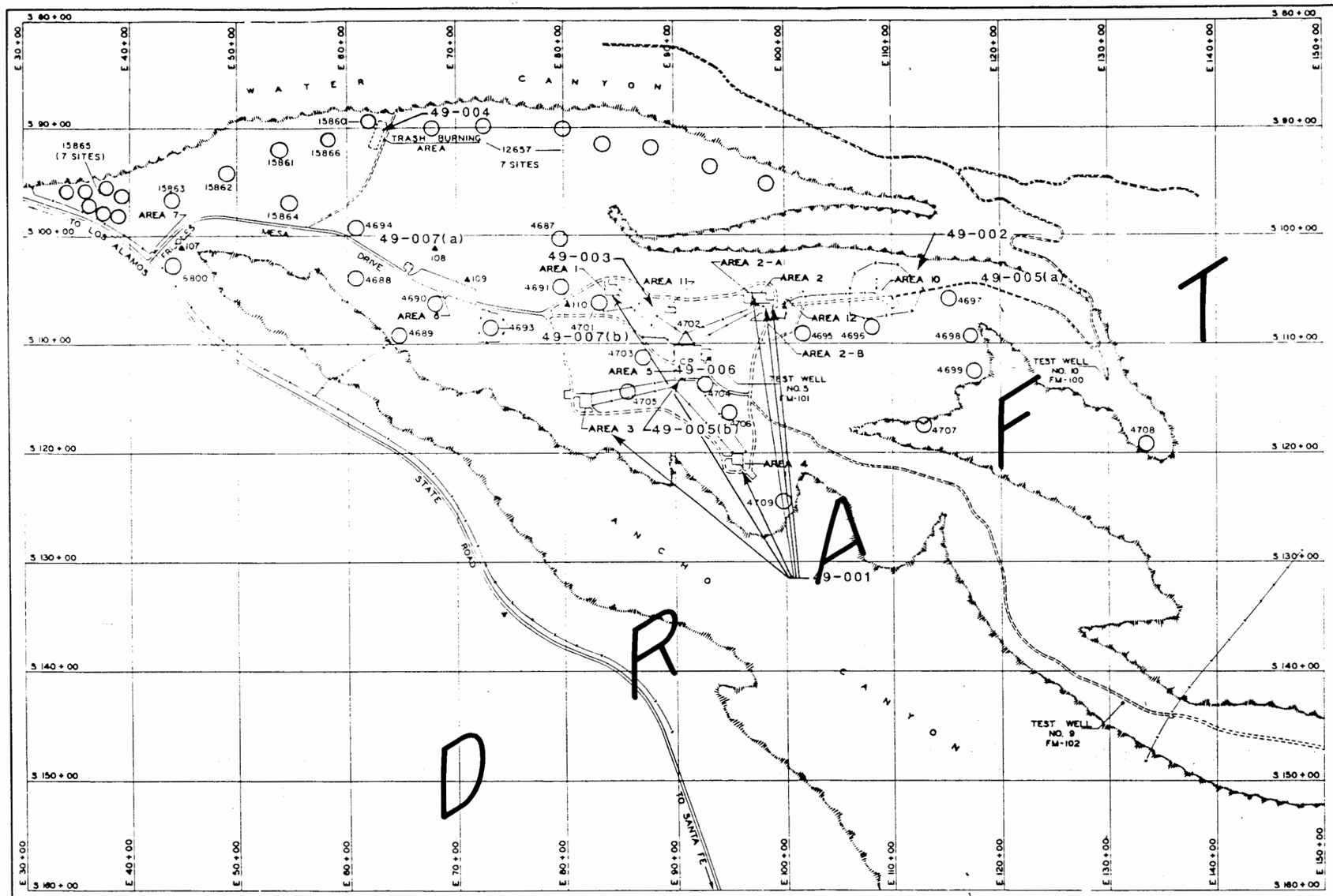
TA-49 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
49-001	49-1
49-002	49-1
49-003	49-1
49-004	49-1
49-005(a)	49-1
49-005(b)	49-1
49-006	49-1
49-007(a)	49-1
49-007(b)	49-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B119



LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

NOTE:

FOR DETAILED LAYOUT OF AREAS 1, 3, 4, 7, 10, AND 11, SEE SHEET 3, DWG. NO. ENG.-R5126

FOR DETAILED LAYOUT OF AREAS 2, 2-A, 2-B, 5, 6, AND 12, SEE SHEET 4, DWG. NO. ENG.-R5126

EXPLANATION

49-001 SWMU LOCATION

FIGURE 49-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-49

1" = 500'

GRAPHIC SCALE

NOTES

UNIT 49-007(a) AND (b) : EXACT UNIT LOCATION IS UNAVAILABLE.

REV.	DATE	REVISION	BY	CKD	APP
9	8-24-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-24-83	HS		

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STRUCTURE LOCATION PLAN
TA-49 FRIJOLES MESA SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 10-28-85

SUBMITTED / RECOMMENDED / APPROVED

DRAWN / CHECKED

DATE 8-24-83 SHEET NO. 2 of 4

DRAWING NO ENG-R 5126

DRAFT

301215 02 01 B58

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS
TA-49-1	FM-1	GUARD HOUSE	AREA 7
TA-49-2	FM-2	OFFICE BUILDING RELOCATED	TO TA-53, NOW TA-0-149
TA-49-3	FM-3	CRAFT SHACK	RELOCATED TO TA-35-51
TA-49-4	FM-4		REMOVED 1971
TA-49-5	FM-5	CRAFT SHACK	RELOCATED TO TA-52-27
TA-49-6	FM-6	CRAFT SHACK	RELOCATED TO TA-8-73
TA-49-7	FM-7		REMOVED 1970
TA-49-8	FM-8	THE SHED	AREA 5
TA-49-9	FM-9		REMOVED 1970
TA-49-10	FM-10		REMOVED 1970
TA-49-11	FM-11		REMOVED 1970
TA-49-12	FM-12		REMOVED 1970
TA-49-13	FM-13		REMOVED 1970
TA-49-14	FM-14	TRANSFORMER STATION	AREA 5
TA-49-15	FM-15		REMOVED 1971
TA-49-16	FM-16		REMOVED 1971
TA-49-17	FM-17		REMOVED 1970
TA-49-18	FM-18		AREA 1 ELECTRICAL
TA-49-19	FM-19		REMOVED 1970
TA-49-20	FM-20	GRAY HOUSE NO. 1	AREA 5
TA-49-21	FM-21	LATRINE	AREA 12
TA-49-22	FM-22		REMOVED 1970
TA-49-23	FM-23	BOTTLE HOUSE	AREA 12
TA-49-24	FM-24	MANHOLE	AREA 12 ELECTRICAL
TA-49-25	FM-25	TRANSFORMER	AREA 12
TA-49-26	FM-26	POWER PANEL	AREA 12 ELECTRICAL
TA-49-27	FM-27	MANHOLE	AREA 12 ELECTRICAL
TA-49-28	FM-28		REMOVED 1970
TA-49-29	FM-29		REMOVED 1969
TA-49-30	FM-30		REMOVED 1969
TA-49-31	FM-31		REMOVED 1970
TA-49-32	FM-32		REMOVED 1969
TA-49-33	FM-33	PORTABLE SHIELD	AREA 2-A
TA-49-34	FM-34	PORTABLE GENERATOR	REMOVED 1979
TA-49-35	FM-35		REMOVED 1970
TA-49-36	FM-36	SIGNAL PANEL	AREA 5 ELECTRICAL
TA-49-37	FM-37	SIGNAL PANEL	AREA 2 ELECTRICAL
TA-49-38	FM-38	MANHOLE	AREA 2-B ELECTRICAL
TA-49-39	FM-39	MANHOLE	AREA 2 ELECTRICAL
TA-49-40	FM-40		DESTROYED 1960
TA-49-41	FM-41		REMOVED 1970
TA-49-42	FM-42		REMOVED 1969
TA-49-43	FM-43		REMOVED 1969
TA-49-44	FM-44		REMOVED 1970
TA-49-45	FM-45	SIGNAL PANEL	AREA 3 ELECTRICAL
TA-49-46	FM-46		REMOVED 1970
TA-49-47	FM-47	CABLE BUILDING	AREA 4
TA-49-48	FM-48	SIGNAL PANEL	AREA 4 ELECTRICAL
TA-49-49	FM-49		REMOVED 1969
TA-49-50	FM-50		REMOVED 1969
TA-49-51	FM-51		REMOVED 1964
TA-49-52	FM-52		REMOVED 1970
TA-49-53	FM-53		REMOVED 1971
TA-49-54	FM-54		REMOVED 1971
TA-49-55	FM-55	STORAGE BUILDING	AREA 11
TA-49-56	FM-56		REMOVED 1971
TA-49-57	FM-57	LATRINE	AREA 10
TA-49-58	FM-58		REMOVED 1970
TA-49-59	FM-59	POWER & SIGNAL PANEL	REMOVED 1979
TA-49-60	FM-60	MANHOLE	REMOVED 1979
TA-49-61	FM-61	PORTABLE SHIELD	AREA 10
TA-49-62	FM-62	ELEVATOR BUILDING	REMOVED 1979
TA-49-63	FM-63		REMOVED 1970
TA-49-64	FM-64	LATRINE	AREA 7
TA-49-65	FM-65	TANK	AREA 5 FUEL
TA-49-66	FM-66	TANK, WATER	RELOCATED TO TA-3-1[illegible]
TA-49-67	FM-67		REMOVED 1970
TA-49-68	FM-68		REMOVED 1969
TA-49-69	FM-69	LATRINE	Transferred to Zia [illegible]
TA-49-70	FM-70	LATRINE	AREA 5
TA-49-71	FM-71	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-72	FM-72	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-73	FM-73	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-74	FM-74	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-75	FM-75	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-76	FM-76	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-77	FM-77	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-78	FM-78	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-79	FM-79	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-80	FM-80	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-81	FM-81	MANHOLE (PORTABLE)	AREA 5 ELECTRICAL
TA-49-82	FM-82		REMOVED 1970
TA-49-83	FM-83	CARPENTRY & ELECTRICIAN SHED	AREA 6
TA-49-84	FM-84	TOOL BUILDING	RELOCATED TO TA-3-179
TA-49-85	FM-85		REMOVED 1970
TA-49-86	FM-86		REMOVED 1970
TA-49-87	FM-87		REMOVED 1970
TA-49-88	FM-88	POWER PANEL A	AREA 5 ELECTRICAL
TA-49-89	FM-89	POWER PANEL B	AREA 5 ELECTRICAL
TA-49-90	FM-90	POWER PANEL C	AREA 5 ELECTRICAL
TA-49-91	FM-91	POWER PANEL D	AREA 5 ELECTRICAL
TA-49-92	FM-92	SIGNAL PANEL W	AREA 5 ELECTRICAL
TA-49-93	FM-93	SIGNAL PANEL X	AREA 5 ELECTRICAL
TA-49-94	FM-94	SIGNAL PANEL Y	AREA 5 ELECTRICAL
TA-49-95	FM-95	SIGNAL PANEL Z	AREA 5 ELECTRICAL
TA-49-96	FM-96	PHOTO TOWER	AREA 5 FORMERLY TA 29-3
TA-49-97	FM-97	PORTABLE SHIELD	AREA 2-B

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS
TA-49-98	FM-98	PORTABLE SHIELD	AREA 2-B
TA-49-99	FM-99		REMOVED 1970
TA-49-100	FM-100	TEST WELL NO. 10	
TA-49-101	FM-101	TEST WELL NO. 5	AREA 5
TA-49-102	FM-102	TEST WELL NO. 9	
TA-49-103	FM-103		REMOVED 1970
TA-49-104	FM-104		REMOVED 1970
TA-49-105	FM-105		REMOVED 1970
TA-49-106	FM-106	RECORDING BUILDING	AREA 5
TA-49-107	FM-107	TRANSFORMER STATION	S100+00 E40+00
TA-49-108	FM-108	TRANSFORMER STATION	S100+00 E70+00
TA-49-109	FM-109	TRANSFORMER STATION	Relocated TA-35-83
TA-49-110	FM-110	TRANSFORMER STATION	E 80+00 S110+00
TA-49-111	FM-111	TRANSFORMER STATION	AREA 5

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS

FIGURE 49-2

UNCLASSIFIED

TA-49 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
6	9-22-83	REVISED TITLE BLOCK AND DWG. TO STATUS OF 8-1-83	VM		

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FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-49 FRIJOLES MESA SITE

SEC CLASSIFICATION: CLASS U
REVIEWER
DATE 10-3-83

SUBMITTED
DRAWN
CHECKED
RECOMMENDED
DATE 9-22-83
SHEET NO 1 OF 4
APPROVED
DRAWING NO ENG-R5126

TA-50

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 50 serves as the waste treatment plant for radioactive liquid wastes from Laboratory facilities, including TA-2, -3, -43 and several TAs along Pajarito Road. Operations began in 1963 in TA-50-1 and continue to the present. The industrial waste line coming into TA-50-1 from outlying sites is double-encased, with lead monitors in the manholes to which the outer line drains. In addition to collecting radioactive wastes via the industrial waste line network and by truck pick-up, certain hazardous chemical wastes were collected in batches and trucked to TA-50 for treatment on-site. Other chemical wastes and oils are trucked directly to storage at Material Disposal Area L, at TA-54, for eventual disposal by off-site organizations.

The Treatment Development Facility, located at TA-50-37, contains a controlled-air incinerator (CAI) that was designed to develop methods to reduce volume, stabilize chemical composition, and eliminate combustibility of defense transuranic (TRU) wastes. The TRU program was successfully completed and the CAI has been subsequently modified to process other wastes, including beta-gamma radioactive waste, ion exchange resins, carcinogens, and other hazardous chemical wastes in both liquid and solid form. Building TA-50-69 houses the TRU Waste Size Reduction Facility, which is a production-oriented prototype designed to reduce the volume and repackage various types of metallic waste items such as gloveboxes, process equipment, and ductwork. A radioactive decontamination facility for the Laboratory is located in the lower level at the south end of Building TA-50-1

TA-50 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine and Shrub-Grass-Forb overstory vegetation zones. Two major soil series are present at TA-50. The first soil is described as Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy-Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to <1.8 cm soil/yr, from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from

bare soil exposed to a two-year, 30-minute precipitation event). The second soil at TA-50 is the Carjo loam, moderately deep (51 to 102 cm), well-drained soils typical of nearly level to moderately sloping mesa tops. The water-holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr).

At TA-50, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,950 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer (IT, 1987).

DRAFT

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1963 - PRESENT

UNIT INFORMATION

The radioactive liquid waste treatment facility at TA-50 covers 37,000 square feet (60,000 square feet total floor space) and is designed primarily to remove transuranics. Its design capacity is 250 gpm. The facility provides neutralization, flocculation/clarification, pH control, ion exchange and filtration. The facility includes a wiped film evaporator (not yet operational), located in Room 71, Building 1; two clariflocculators, located in Room 116; a pH adjustment tank, located in Room 16; a horizontal evaporator storage tank, located in Room 70A; a decant storage tank (used as an auxillary sludge storage tank), located in Room 61; a rotary drum vacuum filter, located in Room 116B; two gravity filtration devices, located in Room 116; a 100,000 gallon steel emergency holding tank, TA-50-90, added in 1982; and two waste mixers where chemicals are mixed with waste for treatment, located in Room 116. The facility has an outfall to Mortandad Canyon regulated under an NPDES permit (see "Operational Releases"). Liquid waste is transferred to the radioactive waste treatment facility from many of the active technical areas. The waste flows through double-encased polyethylene and stainless steel piping.

WASTE INFORMATION

The waste treated at this facility is radioactive-mixed waste.

RELEASE INFORMATION

Releases from the treatment facility are described in 50-006.

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: TREATMENT/STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1963 - PRESENT

UNIT INFORMATION

The Radioactive Waste Treatment Facility includes three sets of underground storage tanks. The first set of tanks is a tank farm known collectively as TA-50-2 [50-002(a)] and includes five flow-through process tanks, the largest having a volume of 75,000 gallons. Two of the tanks handle the incoming waste, one is for sludge and the other two are for treated liquid waste storage. Three stainless steel underground storage tanks are located at the TA-50-3 tank farm [50-002(b)] and range in volume from 1,000 to 4,500 gallons. The tanks were used to store wastes from the Omega West reactor and could be used in an emergency for the storage of other wastes. These tanks are currently inactive. In addition, two tanks TA-50-67 and TA-50-68 [50-002(c) and 50-002(d)] in an underground vault, TA-50-66, handle the caustic and acid liquid wastes respectively from two underground lines from the Plutonium Facility at TA-55. These liquids contain significant amounts of transuranics and are monitored carefully for criticality control before treatment. The two streams are mixed and treated, and the resulting sludge will be shipped to the Waste Isolation Pilot Plant after cementation in a drum-tumbler operation in Room 60A, TA-50-1.

WASTE INFORMATION

The waste is identified as radioactive-mixed.

RELEASE INFORMATION

There is no evidence that these tanks have leaked.

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1963 - PRESENT

UNIT INFORMATION

There are two drum storage areas in conjunction with the Radioactive Waste Treatment Facility. The primary storage area is located in Building 1, Room 60D [50-003(a)]. The source of the waste is the cementing unit in Room 60A. A second container storage area is located in Room 130 of building TA-50-1 [50-003(b)]. The area is a satellite storage area for the analytical laboratory. The waste stored is samples from the laboratory. There is a temporary storage (less than 90 days) area at TA-50-2 [50-003(c)] that has been active since 1985. It consists of polyethylene 200 or 300 gallon tanks and numerous 55 gallon drums. The drums are stored on asphalt. The source of the waste is the isotope processing unit and the waste goes either into the radioactive waste tank or the neutralization tank. The polyethylene "tuff" tanks are enclosed within a steel cage. Recently a modular shed [50-003(d)] has been constructed behind TA-50-1 in which acidic wastes picked up from the ICON facility (TA-46) are stored. There is also an inflatable berm in this area which is also used for storage. A November 1988 field survey found four barrels under a tarp near TA-50-125 [50-003(e)].

WASTE INFORMATION

The waste in Room 60D is transuranic. The waste in Room 130 and TA-50-2 is low level, transuranic, and/or hazardous. The waste in the shed and berm is acidic waste. The contents of the four barrels is unknown.

RELEASE INFORMATION

There are no known releases from these container storage areas.

50-004 DECOMMISSIONED WASTE LINES

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): WASTE LINES
UNIT USE: TRANSPORT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1963 - 1975

UNIT INFORMATION

In 1975, the radioactive contaminated waste line was removed at TA-50 in the region where the incinerator is now located, TA-50-37. Contaminated soil and pipe were taken to Area G and buried. More than 1,000 feet of pipe have been removed throughout LANL. The six to eight inch pipe carried approximately 600 million liters of waste during its life.

WASTE INFORMATION

The waste is described as radioactive mixed.

RELEASE INFORMATION

The lines were known to have leaked occasionally. The leaks were usually cleaned up to as low as reasonably achievable levels of radioactivity as soon as they were discovered by removing affected soil and pipe. Chemical constituents which may have been present were not sampled for at the time of decommissioning.

DRAFT

50-005 NONRADIOACTIVE WASTE TREATMENT PLANT

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): TREATMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1983 - PRESENT

UNIT INFORMATION

A liquid waste batch treatment system is located in Building 1, Room 24, at TA-50. Wastes that have been treated include cyanide, chromate plating solutions and solutions of acids and bases, and heavy metals. The unit is underlain by concrete and includes a Kynar-lined tank and associated Kynar-lined and stainless steel pipeline. The tank is used to treat electroplating waste containing copper and lead. It was put into use in May 1988. The plant also has a Kynar-lined blowdown tank in Room 24. This tank had not been used at the time of the VSI. Mercury reclamation is done on an intermittent basis in Room 34. Mercury is washed in acid and/or solvents and double distilled. The capacity has been estimated at 35 pounds per day. The process is not operated regularly because of the current lack of personnel. The area is estimated to be 60 square feet.

WASTE INFORMATION

The wastes handled at the Room 24 unit are cyanide, chromate plating solutions, acids, bases, and heavy metals including lead. Mercury is handled by the unit in Room 34.

RELEASE INFORMATION

There is no evidence of release from this facility.

DRAFT

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): OPERATIONAL RELEASE
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1975 - PRESENT

UNIT INFORMATION

There have been several one-time spills of radioactive wastes and unknown chemicals at TA-50 over the years. Upper Ten Site Canyon is reported to have contamination from overflow of a sump. Routine airborne releases of plutonium from the radioactive liquid waste treatment plant have deposited on the surrounding soils. Treated liquid effluent from the treatment plant has discharged to Mortandad Canyon since 1963. More recently, the liquid effluent from the TA-21 Treatment Plant has been piped to TA-50 for discharge to Mortandad Canyon as well.

WASTE INFORMATION

The waste is radioactive mixed. Results of 1985 sample analyses for radioactive and hazardous constituents can be found in CEARP.

RELEASE INFORMATION

Releases through the outfall have caused an inventory of chemicals, heavy metals, and radionuclides to be present in Mortandad Canyon.

DRAFT

50-007 INCINERATOR COMPLEX

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT/STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1975 - PRESENT

UNIT INFORMATION

The incinerator complex (TA-50-37) was designed and constructed to develop incineration methods for wastes containing transuranics. The design matrix feed rate of this facility is 50 kg/hr. Upgrades are underway to convert the unit from a research and development facility to a production facility. These changes should be online by March of 1989. The incinerator is located in Room 112 and the feed system is located in Room 115 of Building 37. The liquid feed system prep room is bermed and contains no floor drains. The inventory permitted in this room is 600 gallons and release containment is designed to hold 110 percent of the maximum inventory. An off-gas treatment unit is associated with the incinerator complex. The exhaust air system from the room includes two HEPA filters. In addition, Room 115 of TA-50-37 contains 55-gallon drums containing radioactive waste in conjunction with an indoor feed system for the incinerator. The purpose of the unit is to composite scintillation vials in the outer area of Room 114 and send the material to TA-54 to be solidified in a manner that will allow the waste to be brought back and incinerated. The waste comes from throughout the facility. Containers are opened and handled under a barrel hood with an exhaust blower capacity of about 1000 cfm.

WASTE INFORMATION

The waste is chlorinated, fluorinated hydrocarbons, carcinogenic materials, and transuranic waste from the plutonium processing facility. Liquid effluent generated by the off-gas aqueous scrub system is filtered for solids removal prior to transfer via a double contained instrumented pipeline to the TA-50 Building 1 Industrial Waste Treatment Facility. Ash will be immobilized in concrete prior to shipment to the Waste Isolation Pilot Plant.

RELEASE INFORMATION

The unit has many release controls associated with it.

50-008 SIZE REDUCTION FACILITY

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): OTHER: VOLUME REDUCTION
UNIT USE: OTHER: VOLUME REDUCTION
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1983 - PRESENT

UNIT INFORMATION

The Size Reduction Facility in Building TA-50-69 is a prototype facility designed to reduce the volume of and repackage various types of metallic waste contaminated with transuranics. Operations were initiated in August of 1983. Through FY85, a total volume of 3,106 cubic feet of transuranic waste had been reduced by a factor of 3.7 to 1. This facility is moderately contaminated with transuranics and associated radionuclides.

WASTE INFORMATION

The waste consists of transuranic and metallic waste, including lead.

RELEASE INFORMATION

There is no evidence of release at this facility. There are no outfalls associated with this unit; all liquid wastes are processed at the radioactive waste treatment facility. Stack emissions also are monitored.

DRAFT

50-009 MATERIAL DISPOSAL AREA C

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1948 - 1969

UNIT INFORMATION

MDA-C is located on the north side of Pajarito Rd adjacent to TA-50. There is approximately 3,650,000 cubic feet of waste at MDA-C within an area of 11.8 acres. MDA-C is composed of six radioactive pits, one chemical pit and 107 shafts. Many of these shafts are lined with corrugated metal pipe. Pit disposal ended in 1964 and shaft disposal ended in 1969. Studies in the late 1970's indicated animal intrusion into the waste and other problems. The surface was improved in 1984 by adding soil cover at a depth greater or equal to six inches with an average cover of approximately two feet, recontouring, and seeding with native grasses. The new surface cover was applied to the eastern half and the extreme western end of the site and consisted of an additional 0.15 meter of topsoil over 0.5 meter of crushed tuff. The new cover was not applied to the extreme southwest corner of Area C because this area does not include any of the waste trenches.

WASTE INFORMATION

The types of radioactive waste buried in Area C include building debris from the demolition of TA-1 and TA-10, routine contaminated trash, sludge from waste treatment plants and depleted uranium chips. Plutonium-contaminated sodium loops from TA-35 were buried in shafts. Noncombustible waste was put in the west end of pit 5 in 1957. The chemical pit contained, according to reports, a variety of chemicals, pyrophoric metals, hydrides and powders, sealed vessels containing sodium potassium alloys or compressed gases, and equipment not suitable for salvage. No high explosives have ever been disposed of in the pit. Natural uranium contaminated objects were placed in the pit, according to reports. Before closing Area C, the safety office placed approximately 200 gas cylinders which were full or partially full and covered them with approximately ten feet of compact fill. The record indicates that warnings were made that some full nickel carbonyl cylinders may have been put into the chemical pit. Carboys of di- or triethylbenzene from the whole body counter at TA-43 were deposited on the ground where the solar panels were located (the solar panels have since been removed).

RELEASE INFORMATION

The landfill is being monitored for radioactive constituents under CEARP's Interim Waste Management Program. Above background levels were found adjacent to the site.

50-010 RADIOACTIVE DECONTAMINATION FACILITY

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): OTHER:DECONTAMINATION FACILITY
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1963 - PRESENT

UNIT INFORMATION

A radioactive decontamination facility for the laboratory is located in the lower level at the south end of TA-50-1. Liquid wastes produced during decontamination go to the tank farm at TA-50 and solid wastes go to TA-54 for storage (TRU) or burial (LL). The decontamination takes place at the facility in hoods, gloveboxes, and open areas.

WASTE INFORMATION

The wastes generated are generally radioactive mixed.

RELEASE INFORMATION

There is no evidence of routine or systematic releases at this facility.

DRAFT

50-011 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-50
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1963 - 1983

UNIT INFORMATION

The septic system included a septic tank, TA-50-10 [50-011(a)], a manhole, TA-50-9 [50-011(b)], and a sanitary distribution box, TA-50-11 [50-011(c)]. The system was removed in 1983.

WASTE INFORMATION

The system managed sanitary waste only. However, in past years some industrial waste may have been discharged.

RELEASE INFORMATION

The septic tank probably had an associated drain field. It is unknown if there were hazardous releases.

DRAFT

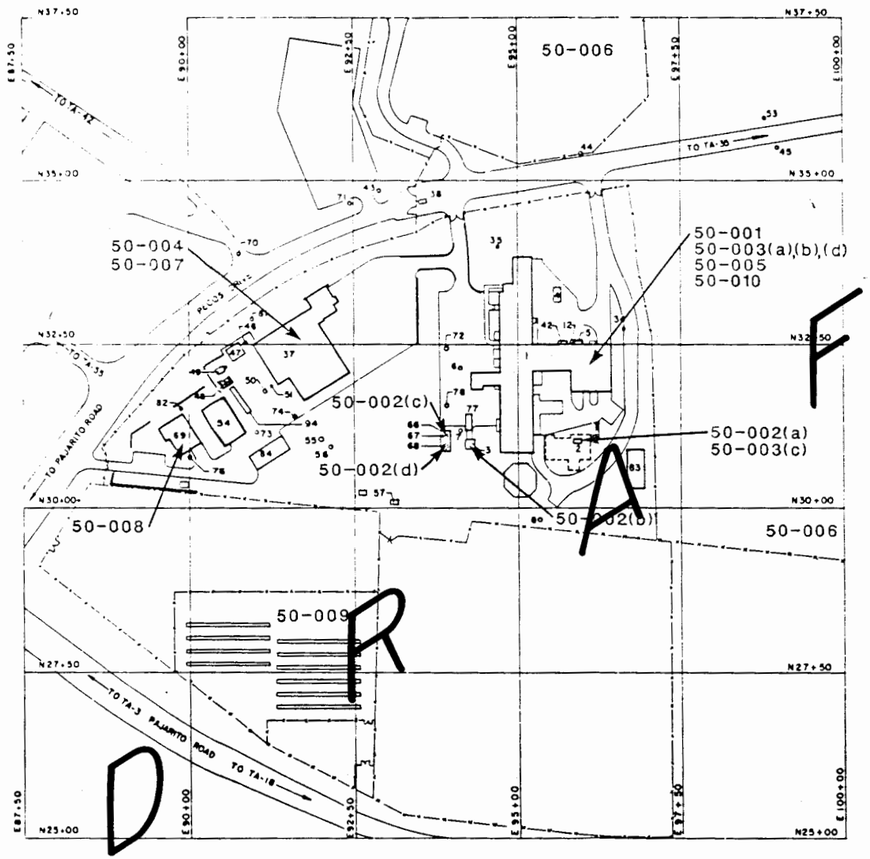
TA-50 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

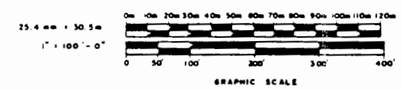
SWMU	FIGURE NUMBER
50-001	50-1
50-002(a)	50-1
50-002(b)	50-1
50-002(c)	50-1
50-002(d)	50-1
50-003(a)	50-1
50-003(b)	50-1
50-003(c)	50-1
50-003(d)	50-1
50-003(e)	Not shown, location unknown
50-004	50-1
50-005	50-1
50-006	50-1
50-007	50-1
50-008	50-1
50-009	50-1
50-010	50-1
50-011(a)	50-2
50-011(b)	50-2
50-011(c)	50-2

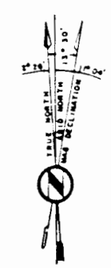
DRAFT

NOTE: Some structure locations may contain more than one SWMU.

301215 02 01 B103







UNCLASSIFIED

EXPLANATION

50-001 SWMU LOCATION

FIGURE 50-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-50

REV.	DATE	REVISION	BY	CKD	APP
7	9-26-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-13-83	HS		

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

FACILITIES ENGINEERING DIVISION

STRUCURE LOCATION PLAN

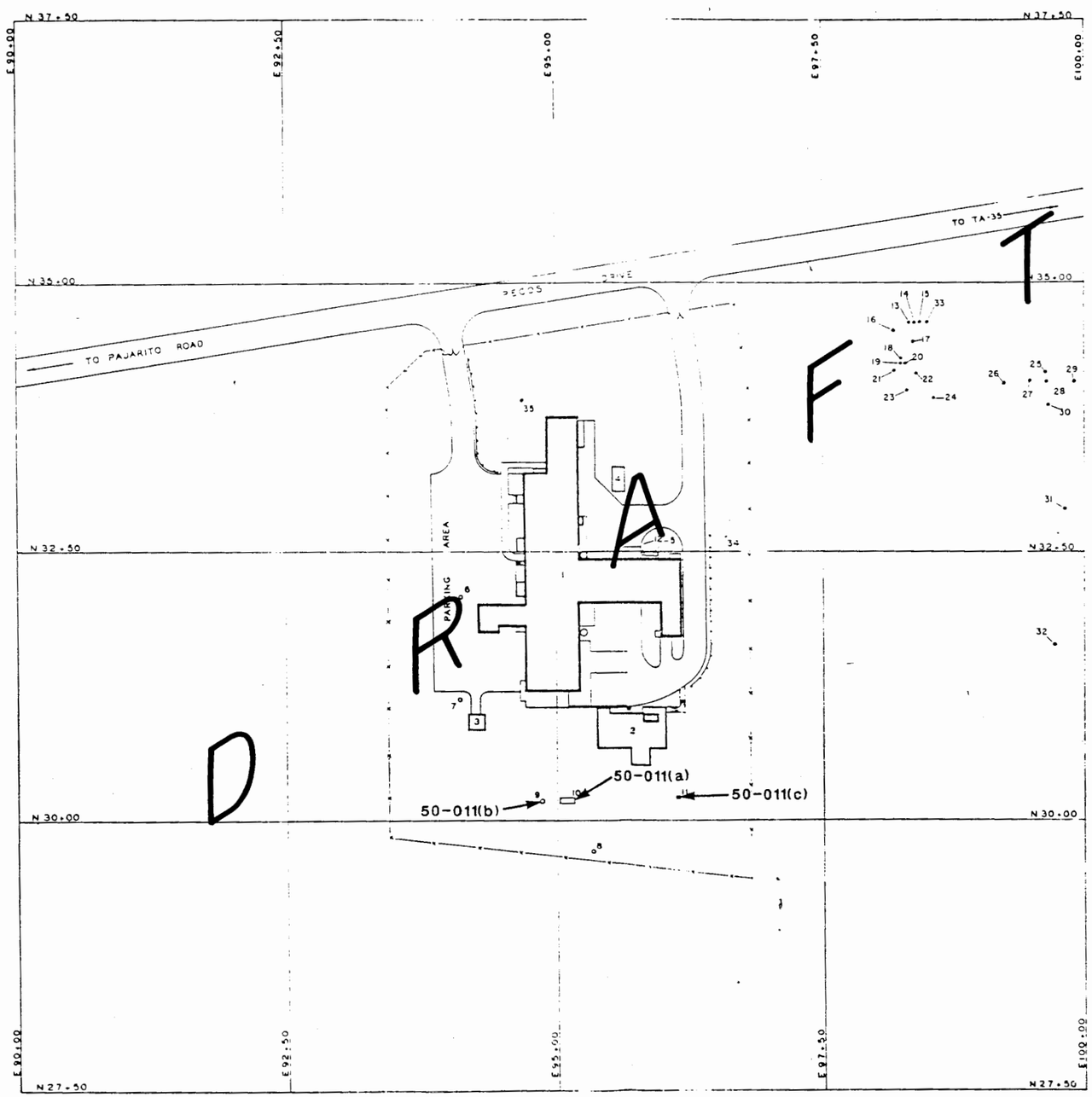
TA-50 WM-SITE

SEC CLASSIFICATION: CLASS. U; REVIEWER; DATE 11-9-88

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 9-26-83; SHEET NO. 2 OF 2; DRAWING NO. ENG-R5127

301215 02 01 B104



UNCLASSIFIED

EXPLANATION

50-001 SWMU LOCATION

50' 25' 0 50' 100' 150' 200'

SCALE

FIGURE 50-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-50

NO.	DATE	REVISIONS	BY	CHKD	GRP LDR	ENG. D. O.
2	12-18-69	REVISED TO STATUS OF 12-18-69				
1	10-13-66	REVISED TO STATUS OF 6-7-66				

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

STRUCTURE LOCATION PLAN
TA-50 LIQUID DISPOSAL SITE

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., REC.

CHECKED — GROUP ENGINEER
RECOMMENDED — GROUP LEADER
APPROVED — ENG. DEPT. OFFICE
DESIGNER
DRAWN FRANK
SCALE AS NOTED
DATE 1-7-63
SHEET 2 OF 2
DRAWING NO. ENG-R 2493

DRAFT

301215 02 01 B39

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-50-1	WM-1	LIQUID DISPOSAL PLANT		N 32+50 E 95+00
TA-50-2	WM-2	PUMPING STATION, ACID		N 30+00 E 95+00
TA-50-3	WM-3	TANK, HOLDING ACID		N 30+00 E 95+00
TA-50-4	WM-4	SUBSTATION		N 32+50 E 95+00
TA-50-5	WM-5	TANK, ACID		N 32+50 E 95+00
TA-50-6	WM-6	MANHOLE, ACID		N 32+50 E 95+00
TA-50-7	WM-7	MANHOLE, ACID		N 30+00 E 95+00
TA-50-8	WM-8	MANHOLE, ACID		N 30+00 E 95+00
TA-50-9	WM-9	MANHOLE, SANITARY	REMOVED 1983	
TA-50-10	WM-10	TANK, SEPTIC	REMOVED 1983	
TA-50-11	WM-11	DISTRIBUTION BOX, SANITARY	REMOVED 1983	
TA-50-12	WM-12	PIT, ACID NEUTRALIZING		N 32+50 E 95+00
TA-50-13	WM-13	CALIBRATION HOLE	REMOVED 1977	
TA-50-14	WM-14	CALIBRATION HOLE	REMOVED 1977	
TA-50-15	WM-15	CALIBRATION HOLE	REMOVED 1977	
TA-50-16	WM-16	TEST HOLE	REMOVED 1977	
TA-50-17	WM-17	TEST HOLE	REMOVED 1977	
TA-50-18	WM-18	TEST HOLE	REMOVED 1977	
TA-50-19	WM-19	TEST HOLE	REMOVED 1977	
TA-50-20	WM-20	TEST HOLE	REMOVED 1977	
TA-50-21	WM-21	TEST WELL	REMOVED 1977	
TA-50-22	WM-22	TEST WELL	REMOVED 1977	
TA-50-23	WM-23	TEST HOLE	REMOVED 1977	
TA-50-24	WM-24	TEST HOLE	REMOVED 1977	
TA-50-25	WM-25	TEST HOLE	REMOVED 1977	
TA-50-26	WM-26	TEST HOLE	REMOVED 1977	
TA-50-27	WM-27	TEST HOLE	REMOVED 1977	
TA-50-28	WM-28	TEST HOLE	REMOVED 1977	
TA-50-29	WM-29	TEST WELL	REMOVED 1977	
TA-50-30	WM-30	TEST WELL	REMOVED 1977	
TA-50-31	WM-31	TEST WELL	REMOVED 1977	
TA-50-32	WM-32	TEST WELL	REMOVED 1977	
TA-50-33	WM-33	TEST HOLE	REMOVED 1977	
TA-50-34	WM-34	MANHOLE, WATER METER		N 32+50 E 97+50
TA-50-35	WM-35	MANHOLE, TELEPHONE		N 35+00 E 95+00
TA-50-36	WM-36	TRANSFORMER STATION	RENUMBERED TA-0-481	
TA-50-37	WM-37	TRANSURANIC BUILDING		N 32+50 E 92+50
TA-50-38	WM-38	INSPECTION STATION		N 35+00 E 92+50
TA-50-39	WM-39	CONCRETE PAD	REMOVED 1980	
TA-50-40	WM-40	GAS METERING STATION	RENUMBERED TA-35-220	
TA-50-41	WM-41	TRANSFORMER STATION	RENUMBERED TA-55-23	
TA-50-42	WM-42	LIQUID CO_2 TANK		N32+50 E95+00
TA-50-43	WM-43	MANHOLE, SANITARY		N35+00 E92+50
TA-50-44	WM-44	MANHOLE, SANITARY		N35+00 E95+00
TA-50-45	WM-45	MANHOLE, SANITARY		N35+00 E100+00
TA-50-46	WM-46	TRANSFORMER PAD		N32+50 E90+00
TA-50-47	WM-47	TRAILER SLAB		N32+50 E90+00
TA-50-48	WM-48	COOLING TOWER SLAB		N32+50 E90+00
TA-50-49	WM-49	COOLING TOWER RESERVOIR		N32+50 E90+00
TA-50-50	WM-50	BLOWER PAD		N32+50 E90+00
TA-50-51	WM-51	STACK FOUNDATION		N32+50 E90+00
TA-50-52	WM-52	TRANSFORMER STATION	NOT SHOWN	
TA-50-53	WM-53	MANHOLE, SANITARY		N35+00 E100+00
TA-50-54	WM-54	TDF WAREHOUSE		N30+00 E90+00
TA-50-55	WM-55	MANHOLE, ACID		N30+00 E92+50
TA-50-56	WM-56	MONITORING PIT, ACID		N30+00 E92+50
TA-50-57	WM-57	MONITORING PIT, ACID		N30+00 E92+50
TA-50-58	WM-58	BUTTERFLY VALVE FOUNDATION	NOT SHOWN	N32+50 E90+00
TA-50-59	WM-59	BUTTERFLY VALVE FOUNDATION	NOT SHOWN	N32+50 E90+00
TA-50-60	WM-60	EXTERIOR DUCT	NOT SHOWN	N32+50 E90+00
TA-50-61	WM-61	EXTERIOR DUCT	NOT SHOWN	N32+50 E90+00
TA-50-62	WM-62	EXTERIOR DUCT	NOT SHOWN	N32+50 E90+00
TA-50-63	WM-63	EXTERIOR DUCT	NOT SHOWN	N32+50 E90+00
TA-50-64	WM-64	EXTERIOR DUCT	NOT SHOWN	N32+50 E90+00
TA-50-65	WM-65	EXTERIOR DUCT	NOT SHOWN	N32+50 E90+00
TA-50-66	WM-66	PIT, ACID AND CAUSTIC		N30+00 E95+00
TA-50-67	WM-67	TANK, PROCESS		N30+00 E95+00
TA-50-68	WM-68	TANK, PROCESS		N30+00 E95+00
TA-50-69	WM-69	SIZE REDUCTION FACILITIES		N30+00 E90+00
TA-50-70	WM-70	MANHOLE, ACID		N35+00 E90+00
TA-50-71	WM 71	MANHOLE, ACID		N35+00 E92+50
TA-50-72	WM-72	MANHOLE, ACID		N32+50 E95+00
TA-50-73	WM-73	MANHOLE, INDUSTRIAL WASTE		N30+00 E90+00
TA-50-74	WM-74	MANHOLE, ACID		N32+50 E92+50
TA-50-76	WM-76	MANHOLE, ACID		N30+00 E90+00
TA-50-77	WM-77	UNLOADING STATION		N30+00 E95+00
TA-50-78	WM-78	MANHOLE, ACID		N32+50 E95+00
TA-50-81	WM-81	MANHOLE, SANITARY		N32+50 E90+00
TA-50-82	WM-82	TRANSFORMER STATION		N32+50 E90+00
TA-50-83	WM-83	STORAGE BUILDING		N30+00 E97+00
TA-50-84	WM-84	TRANSPORTABLE OFF BLDG		N30+00 E90+00
TA-50-85	WM-85	OIL STORAGE	NOT SHOWN	
TA-50-86	WM-86	PUMP HOUSE	NOT SHOWN	
TA-50-87	WM-87	MANHOLE SANITARY	NOT SHOWN	
TA-50-88	WM-88	MANHOLE SANITARY	NOT SHOWN	
TA-50-89	WM-89	WIG WAG	NOT SHOWN	
TA-50-90	WM-90	HOLDING TANK	NOT SHOWN	
TA-50-91	WM-91	LIFT STATION	NOT SHOWN	
TA-50-92	WM-92	LIFT STATION	NOT SHOWN	
TA-50-94	WM-94	TRAILER, OFFICE	FORMERLEY TA-665	N30+00 E92+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-526	ULR-526	CONSTRUCTION SHACK	REMOVED	N35+00 E95+00
TA-0-665	ULR-665	OFFICE TRAILER	REMOVED	N32+50 E90+00

FIGURE 50-3

TA-50 STRUCTURE LOCATION INDEX

UNCLASSIFIED

REV	DATE	REVISION	BY	CKD	APD
7	9-28-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-19-83			

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN

TA-50 WM-SITE

SEC. CLASSIFICATION: CLASS U
REVIEWED
DATE 11-3-89

SUBMITTED
DRAWN
CHECKED
RECOMMENDED
DATE 7-19-83
SHEET NO. 1 OF 2
APPROVED
DRAWING NO. ENG-R5127

301215 02 01 B40

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-50-1	LD-1	LIQUID DISPOSAL PLANT		N 32+50 E 95+00
TA-50-2	LD-2	PUMPING STATION	ACID	N 30+00 E 95+00
TA-50-3	LD-3	TANK	HOLDING, ACID	N 30+00 E 95+00
TA-50-4	LD-4	SUBSTATION		N 32+50 E 95+00
TA-50-5	LD-5	TANK	ACID	N 32+50 E 95+00
TA-50-6	LD-6	MANHOLE	ACID	N 32+50 E 95+00
TA-50-7	LD-7	MANHOLE	ACID	N 30+00 E 95+00
TA-50-8	LD-8	MANHOLE	ACID	N 30+00 E 95+00
TA-50-9	LD-9	MANHOLE	SANITARY	N 30+00 E 95+00
TA-50-10	LD-10	TANK	SEPTIC	N 30+00 E 95+00
TA-50-11	LD-11	DISTRIBUTION BOX	SANITARY	N 30+00 E 95+00
TA-50-12	LD-12	PIT	ACID NEUTRALIZING	N 32+50 E 95+00
TA-50-13	LD-13	CALIBRATION HOLE		N 34+50 E 98+00
TA-50-14	LD-14	CALIBRATION HOLE		N 34+50 E 98+00
TA-50-15	LD-15	CALIBRATION HOLE		N 34+50 E 98+00
TA-50-16	LD-16	TEST HOLE		N 34+50 E 98+00
TA-50-17	LD-17	TEST HOLE		N 34+50 E 98+00
TA-50-18	LD-18	TEST HOLE		N 34+50 E 98+00
TA-50-19	LD-19	TEST HOLE		N 34+00 E 98+00
TA-50-20	LD-20	TEST HOLE		N 34+00 E 98+00
TA-50-21	LD-21	TEST WELL		N 34+00 E 98+00
TA-50-22	LD-22	TEST WELL		N 34+50 E 98+50
TA-50-23	LD-23	TEST HOLE		N 34+50 E 94+50
TA-50-24	LD-24	TEST HOLE		N 34+00 E 99+50
TA-50-25	LD-25	TEST HOLE		N 34+00 E 99+50
TA-50-26	LD-26	TEST HOLE		N 34+00 E 99+00
TA-50-27	LD-27	TEST HOLE		N 34+00 E 99+50
TA-50-28	LD-28	TEST HOLE		N 34+00 E 99+50
TA-50-29	LD-29	TEST WELL		N 34+00 E 100+00
TA-50-30	LD-30	TEST WELL		N 34+00 E 99+50
TA-50-31	LD-31	TEST WELL		N 33+00 E 99+50
TA-50-32	LD-32	TEST WELL		N 31+50 E 99+50
TA-50-33	LD-33	TEST HOLE		N 34+50 E 94+50
TA-50-3	LD-34	MANHOLE	WATER METER	N 33+50 E 96+50
TA-50-35	LD-35	MANHOLE	TELEPHONE	N 34+00 E 94+50

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

UNCLASSIFIED

FIGURE 50-4

TA-50 STRUCTURE LOCATION INDEX

NO.	DATE	REVISIONS	BY	CHKD
2	12-8-69	REVISED TO STATUS OF 2-18-69		
1	10-13-68	REVISED TO STATUS OF 8-7-68		

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

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-50 LIQUID DISPOSAL SITE

AUTHORIZED FOR: HEALTH, SAFETY, SPECIMENT, SEC

DESIGNED: FRANK
DATE: 1-7-63
SCALE: NONE
1 of 2
DRAWING NO. ENG-R 2492

TA-51

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 51 has been used for testing of rodents to oxides of nitrogen. This area formerly encompassed radiation exposure testing. Environmental studies of waste isolation in semi-arid environments is also being pursued at TA-51, west, to determine rates and mechanisms of surface and subsurface transport of contaminants associated with radioactive and hazardous waste. These studies focus on hydrologic processes as they mediate waste transport.

TA-51 lies at elevations between 6,900 and 6,960 feet asl. It is located on Mesita del Buey, bounded on the north by Canyon Canada del Buey and on the south by Pajarito Canyon. Canyon walls are steep or cliffs in this area. TA-51 lies on welded Bandelier Tuff. The area is in the Pinon-Juniper woodland zone. In addition to steeply sloping rock outcrops, the surface deposits include two soil mapping units. The dominant soil in the area is the Hackroy sandy loam. The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy series has a moderate water erosion hazard (0.65 to 1.8 cm soil/yr, from an unprotected surface) and medium runoff (0.14 to 0.51 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event). The other soil is the Nyjack loam series. These are moderately deep (50 to 102 cm), well-drained soils derived from from tuff on nearly level to gently sloping mesa tops. The available water holding capacity is medium, runoff is low, permeability is moderate (1.6 to 5.0 cm/h), and water erosion is slight (0.0 to 0.13 cm, measured as the soil loss from bare soil exposed to the two-year, 30-minute precipitation event).

At TA-51, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,890 feet asl. There is over 1,000 feet of unsaturated tuff and volcanic rock between the surface and ground water. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-51
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

STRUCTURE	SWMU NO.	PERIOD OF USE	CAPACITY	OVERFLOW
TA-51-4	51-001(a)	1962 - present	972 gal	leach field
TA-51-9	51-001(b)	1972 - present (est.)	1500 gal	leach field
TA-51-30	51-001(c)	1984 - present (est.)	1000 gal	seepage pit TA-51-31 [51-001(d)]

WASTE INFORMATION

The septic systems generally handle sanitary waste. It is possible that TA-51-4 and TA-51-9 have received animal wastes; however no toxic or radioactive material is documented as being discharged to these units.

RELEASE INFORMATION

It is unknown whether hazardous waste has been released to the environment.

DRAFT

SUMMARY

LOCATION: TA-51
TYPE OF UNIT(s): OTHER: CAISSON
UNIT USE: RESEARCH
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1982 - 1986

UNIT INFORMATION

The Experimental Engineering Test Facility (EETF) at TA-51-West is used for research to develop effective isolation techniques for buried waste materials in semi-arid climates. This unit includes subsurface caissons that are used in experiments on subsurface water mass balance and solute transport, and soil used in experiments to evaluate biological intrusion of plants and animals into trench caps. Several subsurface open caissons, TA-51-38 and -39 [51-002(a) and (b)], are in an area that is fenced and posted with signs. The caissons are sometimes pumped to remove experimental liquid. On occasion, the liquid contains small quantities of tracers such as stable strontium. The water is discharged to Canada del Buey. Soil is stored in drums at the experimental complex. The soil contains stable cesium tracers that are used in biological intrusion experiments.

WASTE INFORMATION

Small quantities of chemicals such as stable strontium, cesium, and cobalt are used as tracers in the caissons. The soil in the drums contains stable cesium tracer material.

RELEASE INFORMATION

The infrequent caisson pumpings released to the canyon from experiments did not contain radioactive or hazardous waste.

DRAFT

TA-51 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
51-001(a)	51-1
51-001(b)	51-1
51-001(c)	51-1
51-001(d)	51-1
51-002(a)	51-1, 51-2
51-002(b)	51-1, 51-2

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

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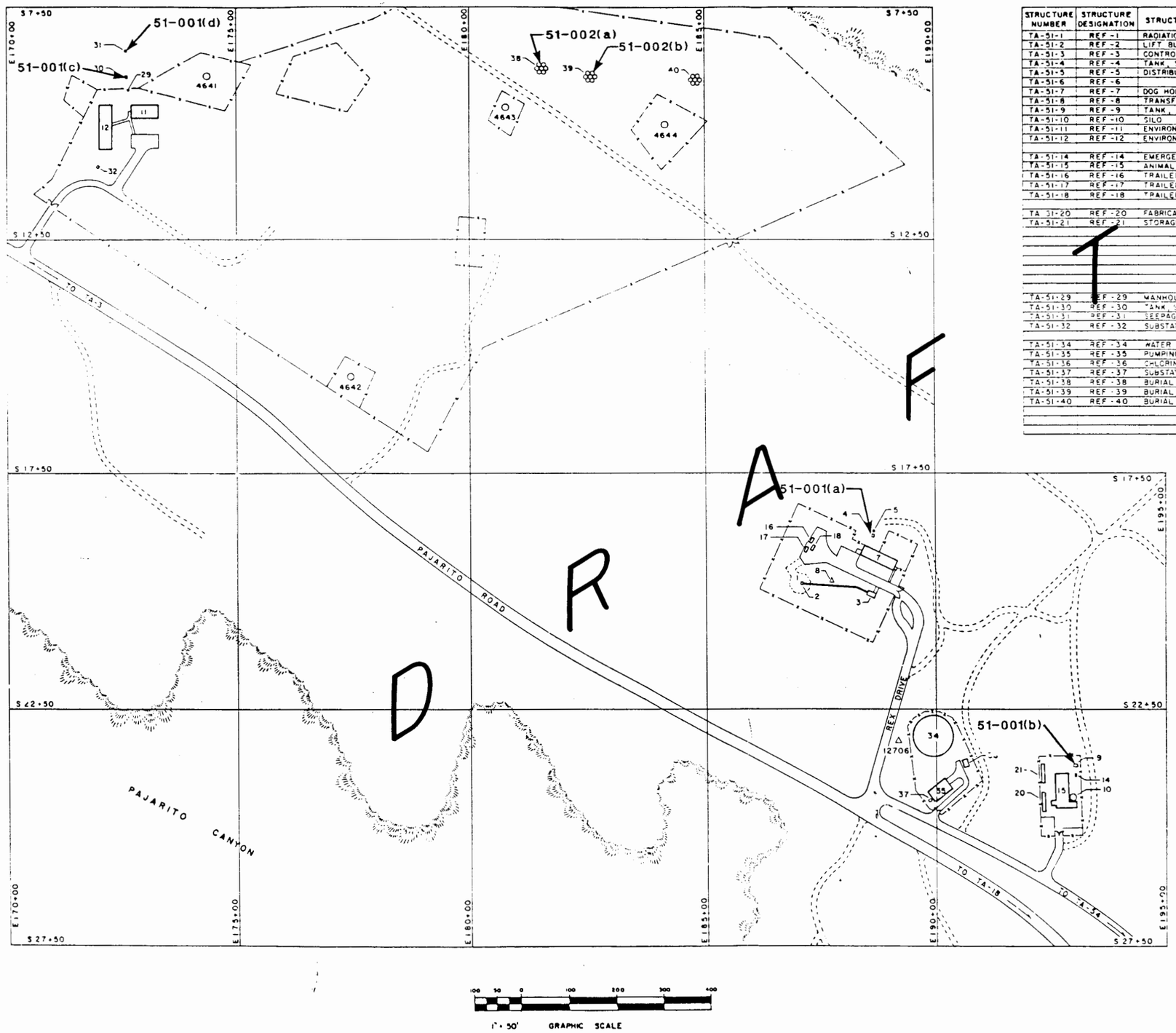

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-51-1	REF-1	RADIATION EXPOSURE BLDG.	UNDERGROUND	S17+50 E185+50
TA-51-2	REF-2	LIFT BUILDING		S17+50 E185+50
TA-51-3	REF-3	CONTROL BUILDING		S17+50 E190+00
TA-51-4	REF-4	TANK, SEPTIC		S17+50 E190+00
TA-51-5	REF-5	DISTRIBUTION BOX, SANITARY		S17+50 E190+00
TA-51-6	REF-6		CANCELLED	
TA-51-7	REF-7	DOG HOLDING FACILITY		S17+50 E190+00
TA-51-8	REF-8	TRANSFORMER STATION		S17+50 E185+50
TA-51-9	REF-9	TANK, SEPTIC		S22+50 E195+50
TA-51-10	REF-10	SILO		S22+50 E195+50
TA-51-11	REF-11	ENVIRONMENTAL RESEARCH LAB		S12+50 E175+00
TA-51-12	REF-12	ENVIRONMENTAL SCIENCE LAB		S12+50 E175+00
TA-51-14	REF-14	EMERGENCY GENERATOR		S22+50 E195+50
TA-51-15	REF-15	ANIMAL HOLDING FACILITY		S22+50 E195+50
TA-51-16	REF-16	TRAILER, STORAGE	FORMERLY TA-0-581	S17+50 E185+00
TA-51-17	REF-17	TRAILER, LABOPATORY		S17+50 E185+00
TA-51-18	REF-18	TRAILER, STORAGE		S17+50 E185+00
TA-51-20	REF-20	FABRICATION LAB		S22+50 E195+00
TA-51-21	REF-21	STORAGE SHED		S22+50 E195+00
TA-51-29	REF-29	MANHOLE, SANITARY		S 7+50 E180+00
TA-51-30	REF-30	TANK, SEPTIC		S 7+50 E180+00
TA-51-31	REF-31	SEEPAGE PIT, SANITARY		S 7+50 E180+00
TA-51-32	REF-32	SUBSTATION		S12+50 E170+00
TA-51-34	REF-34	WATER TANK	FORMERLY TA-0-175	S22+50 E190+00
TA-51-35	REF-35	PUMPING STATION	FORMERLY TA-0-176	S22+50 E190+00
TA-51-36	REF-36	CHLORINATION STATION	FORMERLY TA-0-177	S22+50 E190+00
TA-51-37	REF-37	SUBSTATION	FORMERLY TA-0-178	S22+50 E190+00
TA-51-38	REF-38	BURIAL CLUSTER	FORMERLY TA-0-1195	S 7+50 E180+00
TA-51-39	REF-39	BURIAL CLUSTER		S 7+50 E180+00
TA-51-40	REF-40	BURIAL CLUSTER	FORMERLY TA-0-1218	S 7+50 E185+00

UNCLASSIFIED

LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

EXPLANATION

51-001 SWMU LOCATION

FIGURE 51-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-51

REV	DATE	REVISION	BY	CKD	APPD
8	11-30-84	REDRAWN & REVISED TO STATUS OF 11-28-84	NBI		

UNIVERSITY OF CALIFORNIA

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-51 RADIATION EXPOSURE FACILITY

SEC CLASSIFICATION

CLASS

REVIEWER

DATE

	SUBMITTED	RECOMMENDED	APPROVED
DRAWN	NEALE BYERS	DATE 11-30-84	SHEET NO. 1 of 1
CHECKED			DRAWING NO. ENG-R5128

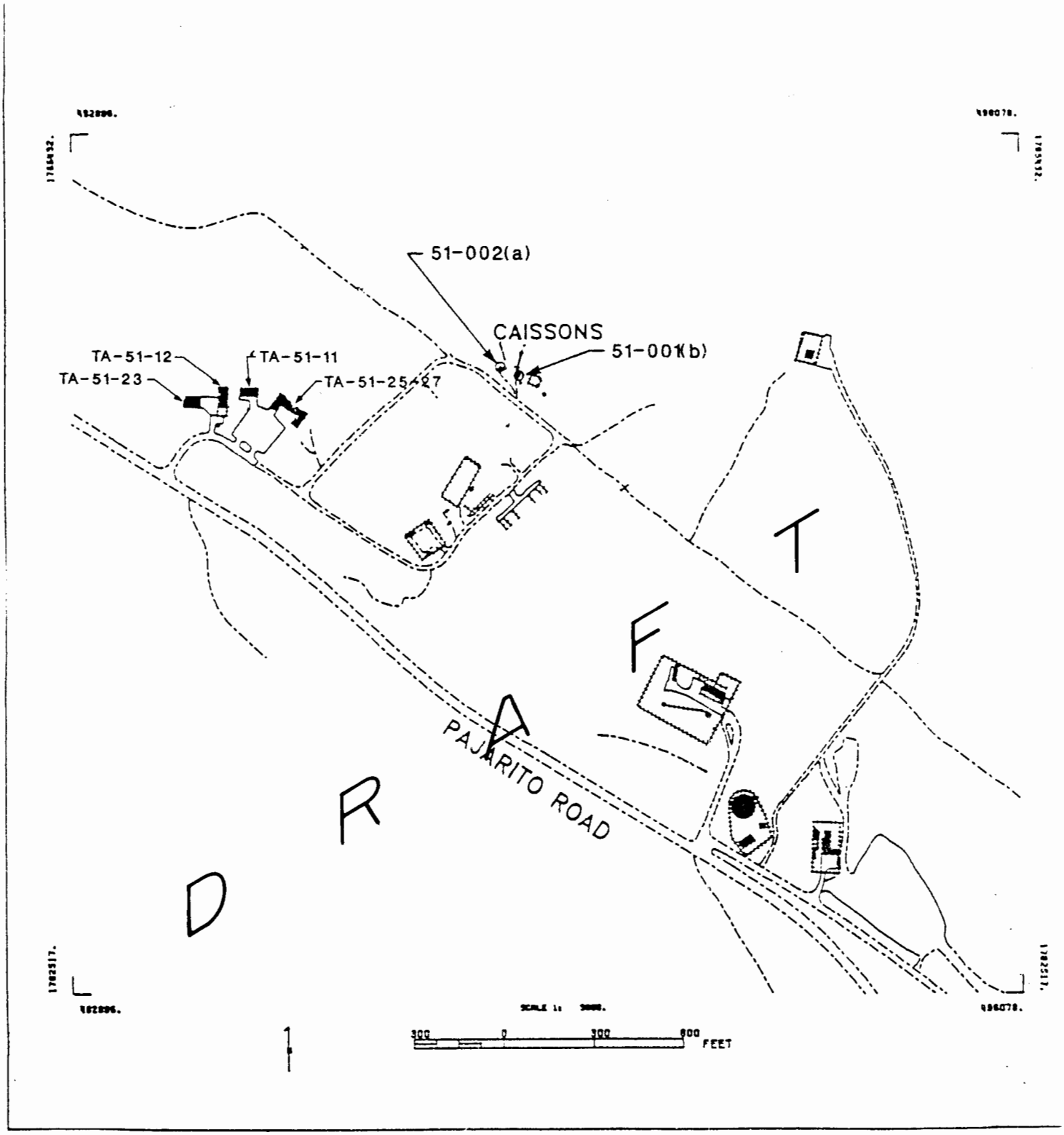

FIGURE 51-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-51

EXPLANATION

51-001 SWMU LOCATION

UNCLASSIFIED

TA-52

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 52 houses safety assessment, safety code development, and reactor design and analysis groups which do not entail hazardous materials. Formerly, TA-52 was the location of the Ultra-High-Temperature Experimental Reactor. Some fuel fragments remain in the reactor vessel and some reactor parts remain in place.

TA-52 lies at elevations between 7,160 and 7,190 feet asl. It is located on Mesita del Buey, bounded on the north by Ten Site Canyon (a tributary of Mortandad Canyon) and on the south by Canada del Buey. Canyon walls are steep or cliffs in this area.

TA-52 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone. In addition to steeply sloping rock outcrops, the surficial material includes the Hackroy-Rock outcrop complex (soil and rock outcrop combined as a mapping unit). The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy-Rock outcrop complex has a moderate to severe water erosion hazard (0.65 to >1.8 cm soil/yr, from an unprotected surface) and medium to high runoff (0.14 to >0.52 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

At TA-52, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 5,950 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-52
TYPE OF UNIT(s): WASTE TREATMENT
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1960's

UNIT INFORMATION

This unit consists of waste treatment equipment associated with the Ultra-High Temperature Reactor Experiment (UHTREX) (TA-52-1). Criticality of the reactor was achieved in 1967 and the reactor ran for one year on an experimental basis. The fuel from the reactor was removed in 1970. The liner of the reactor vessel was later removed. Included in this complex are: a filter pit, heat dump building, heat dump pad, sump pump room, ducts and hot cells. The filter pit, TA-52-14 [52-001(a)], consists of HEPA and charcoal filter banks in a subsurface pit. The heat dump building is structure number TA-52-15 [52-001(b)]; the heat dump pad is TA-52-16 [52-001(c)]. The remainder of the units are located within the UHTREX building, TA-52-1 [52-001(d)].

WASTE INFORMATION

Waste treatment operations are described in the CEARP. It is not known whether the filter pit was used.

RELEASE INFORMATION

Although the reactor housing and some of the equipment are radioactively contaminated and remain in place, there is no evidence that a hazardous release has occurred.

DRAFT

SUMMARY

LOCATION: TA-52
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Several active septic systems are present at TA-52:

STRUCTURE NO.	SWMU NO.	PERIOD OF USE	CAPACITY	OVERFLOW	ASSOCIATED STRUCTURE
TA-52-3	52-002(a)	1963 - present	2,580 gal.	leach field	Distribution Box TA-52-4 [52-002(b)]
TA-52-34	52-002(c)	? - present	2,000 gal.	seepage pit	Tanks TA-52-97 and -98
TA-52-46	52-002(d)	1984 - ?	500 gal.	unknown	
TA-52-47	52-002(e)	1984 - ?	500 gal.	unknown	
TA-52-49	52-002(f)	est. 1984 - present	1,000 gal.	seepage pit	Seepage Pit TA-52-50 [52-002(g)]
TA-52-97	52-002(h)	? - present	2,500 gal.	unknown	TA-52-34
TA-52-98	52-002(i)	? - present	1,000 gal.	unknown	TA-52-34
TA-52-99	52-002(j)	? - present	1,500 gal.	seepage pit	
TA-52-154	52-002(k)	1965 - present	920 gal.	seepage pit	Seepage Pit TA-0-462

The overflow from Tank TA-52-3 goes to a leach field; the field is saturated, and the tank is pumped frequently. The seepage pit for Tank TA-52-34 is not working (it may be overloaded) so that Tank TA-52-34 is frequently pumped, and the tanks that discharge into TA-52-34 (TA-52-97 and -98) are occasionally pumped. The seepage pit for TA-52-154 is 4' in diameter and 50' deep. Engineering records indicated the placement of tanks TA-52-46 and -47, however, further information as to their locations is not available.

WASTE INFORMATION

The tanks presently handle only sanitary waste and the laboratory staff believe that it is unlikely the tanks (and associated seepage pits) have ever received radioactive material. Tanks TA-52-3, -49, and -154 may be suspect for solvents and chemicals discharged in previous years.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from these septic systems.

52-003 TREATMENT FACILITY

SUMMARY

LOCATION: TA-52
TYPE OF UNIT(s): OTHER: TREATMENT FACILITY
UNIT USE: STORAGE/TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: LATE 1960's

UNIT INFORMATION

TA-52-2 is the neutralizing facility and pumping station for the liquid wastes from UHTREX. There are two underground storage tanks in back of TA-52-2 with a capacity of 5000 gallons each. There are two underground tanks in the basement of TA-52-2. The size of one of these concrete tanks is unknown and the other tank is a mixing basin of less than 50 gallon capacity used to neutralize caustics. There is a 150 gallon tank on the first floor.

WASTE INFORMATION

Radionuclides and chemicals are suspected to have been in the liquid wastes from UHTREX. Sodium hydroxide is stored in the 150-gallon tank.

RELEASE INFORMATION

There have been no known hazardous releases from any of the tanks.

DRAFT

52-004 HAMMER MILL

SUMMARY

LOCATION: TA-52
TYPE OF UNIT(s): OTHER: HAMMER MILL
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A hammer mill, located at TA-52-11, is used to destroy classified paper and a small amount of film.

WASTE INFORMATION

The waste handled by this unit is paper and film.

RELEASE INFORMATION

There have been no known hazardous releases from this unit. There may be some dust associated with the process.

DRAFT

TA-52 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
52-001(a)	52-1
52-001(b)	52-1
52-001(c)	52-1
52-002(a)	52-1
52-002(b)	52-1
52-002(c)	52-1
52-002(d)	Not shown, location unknown
52-002(e)	Not shown, location unknown
52-002(f)	52-1
52-002(g)	52-1
52-002(h)	52-1
52-002(i)	52-1
52-002(j)	52-1
52-002(k)	52-1
52-003	52-1
52-004	52-1

DRAFT

NOTE: Some structure locations may contain more than one SWMU.

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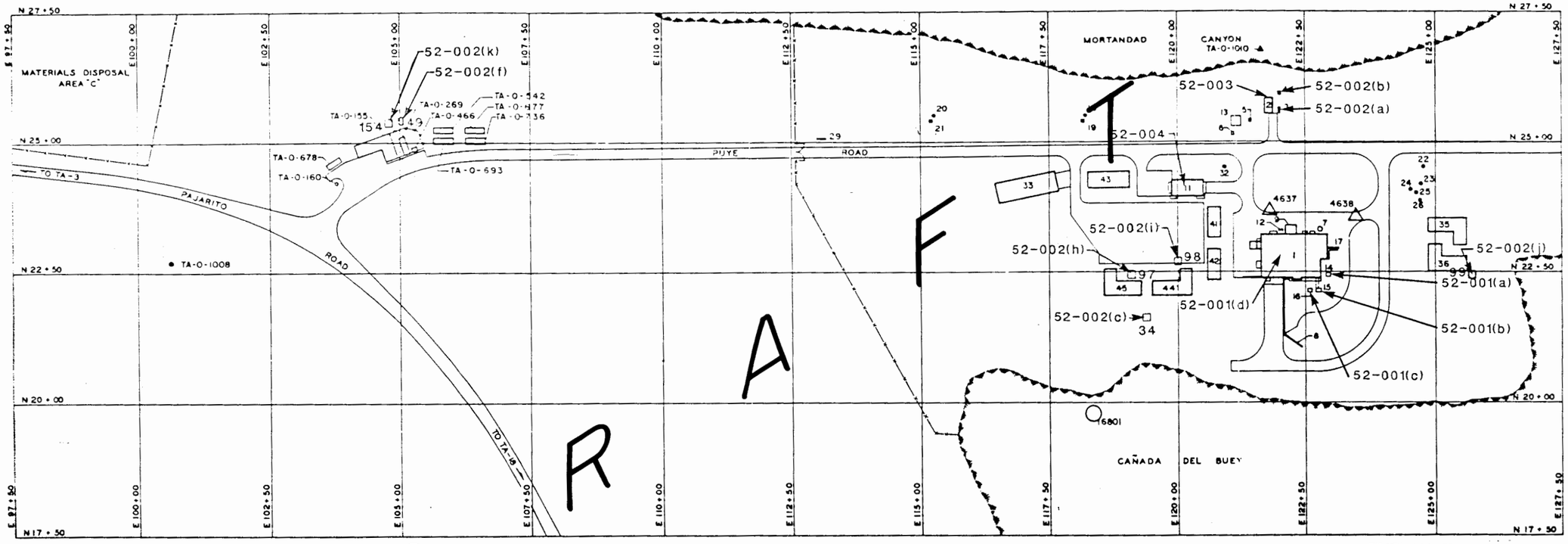

DRAFT

LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

EXPLANATION

52-001 SWMU LOCATION

FIGURE 52-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-52

1" = 100' 100' 50' 0 100' 200' 300' 400'

GRAPHIC SCALE

REV.	DATE	REVISION	BY	CKD	APP
10	9-28-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 6-27-83	VM		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-52 REACTOR DEVELOPMENT SITE

SEC CLASSIFICATION
CLASS U
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED

DRAWN V MORA
CHECKED
DATE 9-28-83
SHEET NO 2 OF 2
DRAWING NO ENG-R 5129

UNCLASSIFIED

301215 02 01 B41

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-52-1	RD-1	UHTREX BUILDING		N22+50 E122+50
TA-52-2	RD-2	NEUTRALIZING & PUMPING STA		N25+00 E122+50
TA-52-3	RD-3	TANK, SEPTIC		N25+00 E122+50
TA-52-4	RD-4	DISTRIBUTION BOX, SANITARY		N25+00 E122+50
TA-52-5	RD-5	MANHOLE, ELECTRICAL		N25+00 E122+50
TA-52-6	RD-6	MANHOLE, WATER		N25+00 E120+00
TA-52-7	RD-7	EXHAUST STACK		N22+50 E122+50
TA-52-8	RD-8	RETAINING WALL		N22+50 E122+50
TA-52-9	RD-9	SUBSTATION		N22+50 E122+50
TA-52-10	RD-10	OFFICE BUILDING	RELOCATED TO TA-3-204	
TA-52-11	RD-11	MECHANICAL ASSEMBLY BLDG		N25+00 E120+00
TA-52-12	RD-12	TANK, FUEL U.G		N22+50 E122+50
TA-52-13	RD-13	SWITCHGEAR STATION		N25+00 E120+00
TA-52-14	RD-14	FILTER PIT		N22+50 E122+50
TA-52-15	RD-15	HEAT DUMP BUILDING		N22+50 E122+50
TA-52-16	RD-16	HEAT DUMP PAD		N22+50 E122+50
TA-52-17	RD-17	MANIFOLD		N22+50 E122+50
TA-52-18	RD-18	MANHOLE, TELEPHONE		N25+00 E117+50
TA-52-19	RD-19	MANHOLE, ELECTRICAL		N25+00 E117+50
TA-52-20	RD-20	MANHOLE, TELEPHONE		N25+00 E115+00
TA-52-21	RD-21	MANHOLE, ELECTRICAL		N25+00 E115+00
TA-52-22	RD-22	TEST WELL		N25+00 E125+00
TA-52-23	RD-23	TEST WELL		N25+00 E125+00
TA-52-24	RD-24	TEST WELL		N25+00 E125+00
TA-52-25	RD-25	TEST WELL		N25+00 E125+00
TA-52-26	RD-26	TEST WELL		N25+00 E125+00
TA-52-27	RD-27	GRAPHITE BUILDING	REMOVED 1967	
TA-52-28	RD-28	OFFICE TRAILER, RELOCATED	TO TA-46-186	
TA-52-29	RD-29	GAS METERING STATION		N25+00 E112+50
TA-52-30	RD-30	OFFICE TRAILER, RELOCATED	TO TA-46-191	
TA-52-31	RD-31	TRANSFORMER STATION	REMOVED 1977	
TA-52-32	RD-32	MANHOLE, ELECTRICAL		N25+00 E120+00
TA-52-33	RD-33	WEAPONS SUPPORT OFFICE FAC		N22+50 E117+50
TA-52-34	RD-34	TANK, SEPTIC	NOT SHOWN	
TA-52-35	RD-35	TRANSPORTABLE, OFFICE BLDG		N22+50 E125+00
TA-52-36	RD-36	TRANSPORTABLE, OFFICE BLDG		N22+50 E125+00
TA-52-41	RD-41	TRANSPORTABLE, OFFICE BLDG	FORMERLY TA-0-1045	N22+50 E120+00
TA-52-42	RD-42	TRANSPORTABLE, OFFICE BLDG	FORMERLY TA-0-1043	N22+50 E120+00
TA-52-43	RD-43	TRANSPORTABLE, OFFICE BLDG	FORMERLY TA-0-1187	N25+00 E117+50
TA-52-44	RD-44	TRANSPORTABLE, OFFICE BLDG	FORMERLY TA-0-1205	N22+50 E120+00
TA-52-45	RD-45	TRANSPORTABLE, OFFICE BLDG	FORMERLY TA-0-1206	N22+50 E117+50

D

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

A

R

F

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-155	ULR-155	MAINTENANCE, SHOP		N25+00 E105+00
TA-0-160	ULR-160	MANHOLE, WATER METER		N22+50 E102+50
TA-0-269	ULR-269	TRAILER, STORAGE		N25+00 E105+00
TA-0-466	ULR-466	STORAGE SHED		
TA-0-542	ULR-542	TRAILER, OFFICE		N25+00 E106+00
TA-0-571	ULR-571	TRAILER, INSTRUMENT		N20+00 E122+50
TA-0-677	ULR-677	TRAILER, OFFICE		N25+00 E106+00
TA-0-693	ULR-693	TRAILER, OFFICE		N25+00 E106+00
TA-0-736	ULR-736	TRAILER, OFFICE		N25+00 E106+00
TA-0-1008	ULR-1008	MANHOLE, ELECTRICAL		N22+50 E100+00
TA-0-1010	ULR-1010	TRASFORMER, STATION		N25+00 E122+50

T

FIGURE 52-2

TA-52 STRUCTURE LOCATION INDEX

UNCLASSIFIED

REV	DATE	REVISION	BY	CKD	APP
8	9-28-83	REVISED TITLE BLOCK & DWG TO STATUS OF 6-27-83	VM		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-52 REACTOR DEVELOPMENT SITE

SEC CLASSIFICATION: CLASS U; REVIEWED; DATE 12.16.83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 9-28-83; SHEET NO 1 OF 2; DRAWING NO ENG-R 5129

TA-53

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 53, the Los Alamos Meson Physics Facility (LAMPF) is a proton accelerator. The subatomic particles produced are used in basic research, isotope production, radiochemistry, solid-state physics research, and accelerator technology. Support units are present on site.

TA-53 lies at elevations between 6,910 and 7,080 feet asl. It is located on Mesita de Los Alamos, which is bounded on the north by Los Alamos Canyon and on the south by Sandia Canyon. Canyon walls are steep or cliffs in this area.

TA-53 lies on welded Bandelier Tuff. The area is in the Pinon-Juniper overstory vegetation zone. The area is underlain principally by rock outcrop.

At TA-53, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,850 and 5,900 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: 1970's - PRESENT

UNIT INFORMATION

The RFA and the CEARP note a storage area at TA-53-2 [53-001(a)] that consists of a 55 gallon steel drums on a concrete and asphalt pad. The RFA also notes another storage area used for temporary (<90 day) storage [53-001(b)]. The CEARP also notes spent oil storage areas and a storage yard southeast of TA-53-16 [53-001(c)]. Additional storage was observed at TA-53-14 [53-001(d)].

WASTE INFORMATION

According to the RFA and the CEARP, the temporary storage area at TA-55-2 was used for spent solvents and acids. Currently, LANL notes only solvents and miscellaneous storage at TA-53-2. The CEARP stated that in the storage yard southeast of TA-53-16, drums of ethylene glycol and epoxy resins were stored. The storage area at TA-53-14 is used to store solvents. Vacuum pump oil contaminated with radionuclides was mixed with vermiculite, and uncontaminated oil was kept in small drums at TA-53. Many of the storage areas are located on concrete pads with curbing.

RELEASE INFORMATION

Stains on the underlying asphalt pad at TA-53-2 were observed during the VSI. There are no new stains. There was evidence of leaking epoxy resin in the old yard southeast of TA-53-16. It is unknown whether a release has occurred from the storage area at TA-53-14 or from other storage areas.

53-002 LAGOON SYSTEM

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): OXIDATION LAGOON
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1960's - PRESENT

UNIT INFORMATION

Before 1986, only two clay-lined lagoons, TA-53-166 [53-002(a)], were in use at TA-53. The lagoons are 210' x 210' x 6' with capacity of 1,511,952 gallons and were constructed to treat TA-53 waste. The lagoons were operated in series and then discharged to a nearby canyon. In 1986, a third pond [53-002(b)] approximately 1.3 times larger than either of the other two was constructed with a plastic liner underlain by gunite. The outfall from the new lagoon is at the same location as the previously described lagoons. Freeboard in the lagoons is dependent on time of year and scheduling of experiments. The sludge within these lagoons has never been removed.

WASTE INFORMATION

The liquid waste consists of domestic sewage, cooling water from the experimental area of the linear accelerator, leaks in the accelerator system, and other industrial waste including liquid from the janitor's sinks and chemical drains. Radioactive constituents include tritium, beryllium-7, cesium-134, sodium-22, cobalt-57, and other radionuclides. Sludge in the lagoons contains radionuclides and possibly chemical contaminants.

RELEASE INFORMATION

The lagoons have discharged to Los Alamos Canyon. The outfall from the lagoons is under a NPDES permit, serial number 09s (see Appendix A). The estimated solid waste volume from this outfall is 0.0113 million gallons per day. Tritium is released.

53-003 HOLDING TANK

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1967 - PRESENT

UNIT INFORMATION

A holding tank, TA-53-1016, (also known as TA-0-190) serves two offices and a trailer. It is a metal tank 4'4" in diameter, 5' long, and has a capacity of 500 gallons. The tank has no overflow system and is pumped on a regular schedule. This was the first septic system at the site.

WASTE INFORMATION

The tank presently manages sanitary waste, and there are no known industrial contaminants discharged to the tank.

RELEASE INFORMATION

There are no known hazardous releases associated with the holding tank.

DRAFT

53-004 BEAD BLASTER

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): BUILDING/STRUCTURE
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1970's - PRESENT

UNIT INFORMATION

The unit is a facility referred to as a "bead blaster". It is used for cleaning ion pump parts. The bead blaster is an enclosed facility with structure number TA-53-56.

WASTE INFORMATION

The waste consists of spent beads and residues removed from the ion pump parts undergoing cleaning. The beads and residues may be contaminated with radionuclides.

RELEASE INFORMATION

At periodic intervals the spent beads and residues are removed from the bead blaster and taken to TA-54 for burial in MDA-G. There have been no known releases.

DRAFT

53-005 DISPOSAL PIT

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): PIT
UNIT USE: DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1969 - 1986

UNIT INFORMATION

According to the CEARP, this disposal pit was associated with operations at a shop, TA-53-2. This pit was unlined and originally contained an oil and water mixture covered by a steel grate. The disposal pit was approximately 4' x 6' and the depth of the pit is unknown. This pit was removed in 1986. Liquid in the pit was sucked out, sampled, and drummed. The pit sides were scraped out and also drummed. The drummed waste was picked up by HSE-7. Drain lines are currently served by a sewage system.

WASTE INFORMATION

The pit contents included waste oils.

RELEASE INFORMATION

The pit was removed in 1986. Analytical results from the soil taken from the pit were negative for hazardous and radioactive constituents. The liquid portion showed 4-5 ppb PCBs.

DRAFT

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

There are four active and one inactive underground storage tanks at TA-53. The tanks are described in the following table.

STRUCTURE	SWMU NO	DIMENSIONS	MATERIAL	USE PERIOD
TA-53-59	53-006(a)	28" dia. / 65' high	unknown	1974 - 1980's (est.)
TA-53-68	53-006(b)	6' dia. / 18' long	steel	1973 - present
TA-53-69	53-006(c)	6' dia. / 18' long	steel	1973 - present
TA-53-144	53-006(d)	17' dia. / 20' high	concrete	1977 - present
TA-53-145	53-006(e)	17' dia. / 20' high	concrete	1977 - present

WASTE INFORMATION

TA-53-59: The tank stores waste consisting of spent resin containing radionuclides removed from circulating water from the Meson Facility.

TA-53-68 and -69: The tanks are used for the storage of cooling water from the experimental area and other water from the linear accelerator. The water contains activation products. In past years, solvents and chemicals may have been stored.

TA-53-144 and -145: The tanks store water containing activation products and serve the WNR facility. In past years, the liquids may have contained small amounts of solvents and other chemicals.

RELEASE INFORMATION

TA-53-59: There have been no known releases.

TA-53-68 and -69: The liquids stored in the tanks are released to the lagoons (53-002) after short-lived radionuclides have decayed away.

TA-53-144 and -145: If samples are below a standard activity, the liquid is discharged to the lagoons. To date all liquids have been discharged.

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): ABOVEGROUND TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1970's - PRESENT

UNIT INFORMATION

There are two aboveground waste storage tanks at TA-53. Each of the tanks has an associated sump. The tanks and sumps are described in the following table.

STRUCTURE	SWMU NO	STRUCTURE TYPE	DIMENSIONS	MATERIAL	BUILT	OVERFLOW
TA-53-1	53-007(a)	tank	2' dia. / 2' high	unknown	1973	sump
TA-53-1	53-007(a)	sump	8' x 8' x 6'	unknown	1973	pick up HSE-7
TA-53-3	53-007(b)	tank	4' dia. / 4' high	stainless steel	1974	pick up HSE-7
TA-53-3	53-007(b)	tank	unknown	fiberglass	1974	not used

The tank in TA-53-1 is used for neutralization. The two tanks in TA-53-3 are located below the hot cell in the experimental hall area.

WASTE INFORMATION

The tanks contain radioactive-mixed waste except for the fiberglass tank which is believed to have never been used.

RELEASE INFORMATION

There have been no known hazardous releases from these tanks.

53-008 BONEYARDS

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): SURFACE DISPOSAL
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1960 - PRESENT

UNIT INFORMATION

The RFA states that a boneyard located near the lagoons (see 53-002) covers 3 to 4 acres and is underlain by soil. The boneyard contains several locked trailers, the contents of which are unknown. Several drums of unknown contents are also present. The CEARP identifies three main boneyard areas containing material of various shapes and descriptions including steel shielding blocks, concrete, radioactively contaminated or activated equipment and general debris.

WASTE INFORMATION

The RFA states that no hazardous constituents were identified during the VSI. Other material is radioactively contaminated.

RELEASE INFORMATION

It is unknown whether any past or current hazardous releases have occured.

DRAFT

53-009 BERMS

SUMMARY

LOCATION: TA-53
TYPE OF UNIT(s): OTHER: BERMS
UNIT USE: CONTAINMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1980's - PRESENT

UNIT INFORMATION

Three aboveground tanks which store liquid scintillation fluid are located to the north of the lagoons. These tanks are surrounded by an earthen berm which would contain liquids in the event of a spill.

WASTE INFORMATION

The waste would consist of spilled scintillation fluid.

RELEASE INFORMATION

There have been no known releases.

DRAFT

TA-53 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
53-001(a)	53-1
53-001(b)	53-1
53-001(c)	53-2
53-001(d)	53-2
53-002(a)	53-2, 53-5, 53-6
53-002(b)	53-6
53-003	53-3
53-004	53-1
53-005	53-1
53-006(a)	53-2
53-006(b)	53-2
53-006(c)	53-2
53-006(d)	53-2
53-006(e)	53-2
53-007(a)	53-2
53-007(b)	53-2
53-008	53-2
53-009	53-2

DRAFT

NOTE: Some structure locations contain more than one SWMU.

301215 02 01 B1

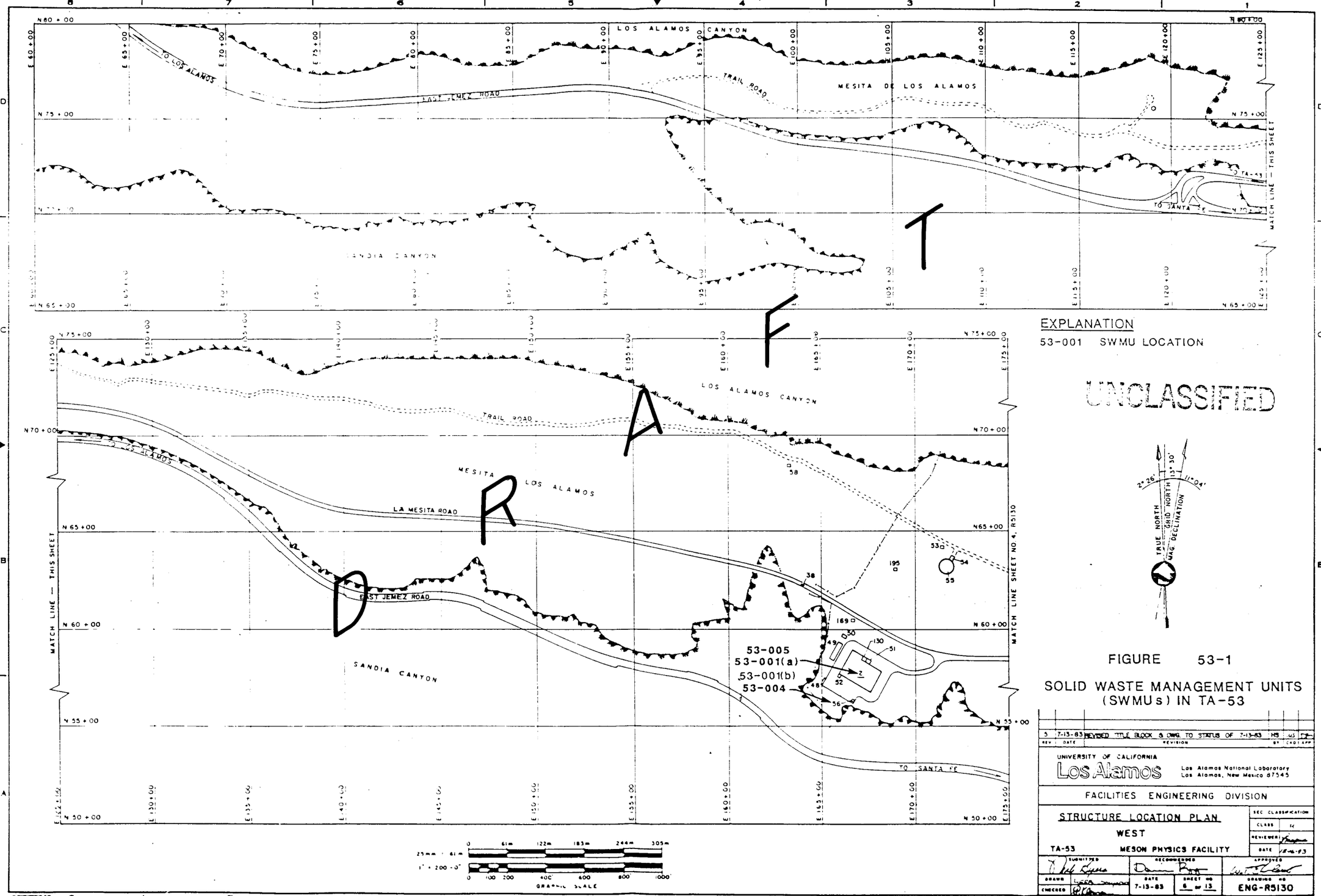

FIGURE 53-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-53

REV	DATE	REVISION	BY	CHK	APP
5	7-13-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-13-83	HS	GS	

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FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN
WEST
TA-53 MESON PHYSICS FACILITY

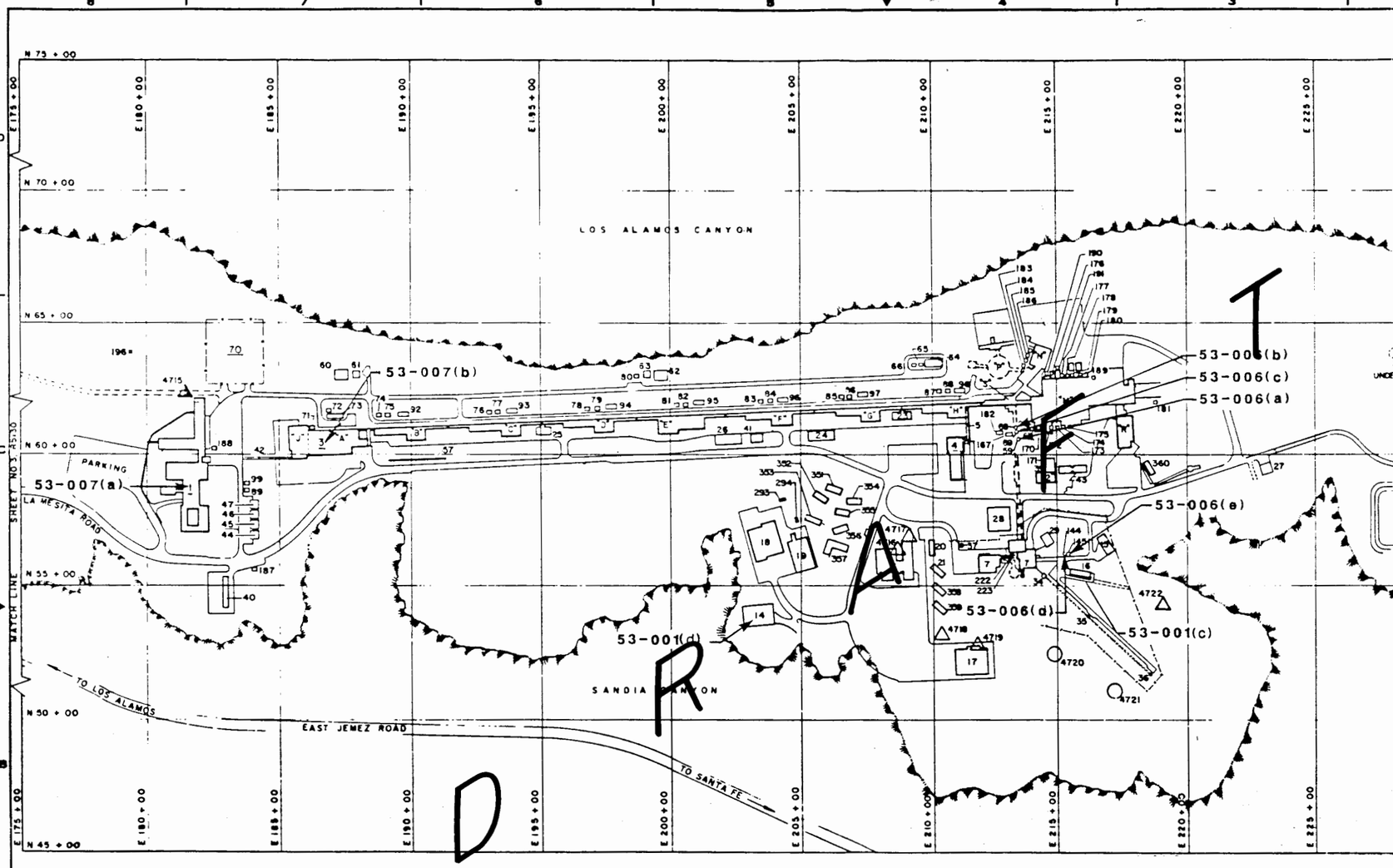
SEC CLASSIFICATION
CLASS U
REVIEWER
DATE 7-13-83

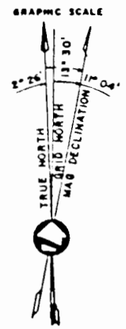
SUBMITTED
RECOMMENDED
APPROVED

DRAWN
CHECKED
DATE 7-13-83
SHEET NO 6 of 13
DRAWING NO ENG-R5130

DRAFT

301215 02 01 B2





LEGEND: ARCHY SITE STATUS

- △ EXCAVATED
- ▲ PARTIALLY EXCAVATED
- ○ UNEXCAVATED

EXPLANATION

53-001 SWMU LOCATION

NOTES

UNIT 53-002(b) SEE FIGURE 53-6

UNCLASSIFIED

FIGURE 53-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-53

REV.	DATE	REVISION	BY	CKD	APP
7	7-14-83	REVISED TITLE BLOCK & DWG TO STATUS OF 6-17-83	HS		TCP

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STRUCTURE LOCATION PLAN
EAST
TA-53 MESON PHYSICS FACILITY

SEC CLASSIFICATION
CLASS.
REVIEWER
DATE 10-16-83

SUBMITTED
DRAWN
CHECKED
RECOMMENDED
DATE 7-14-83
SHEET NO. 7 OF 13
APPROVED
DRAWING NO. ENG-R5130

301215 02 01 B3

LOS ALAMOS CANYON

MESITA DE LOS ALAMOS

SANDIA CANYON

MATCH LINE SHEET NO 6, R5130

53-002

114

010

EXPLANATION

LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBER (SEE APPENDIX A)

FIGURE 53-3

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-53

REV	DATE	REVISION	BY	CKD	APP
6	1-12-87	REVISED TO STATUS OF 1-8-87	N.B.		
5	7-19-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 6-17-83	M.S.		

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TRAILERS-WEST

TA-53 MESON PHYSICS FACILITY

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED; RECOMMENDED; APPROVED

DRAWN: HERB SALLADE; CHECKED

DATE 7-19-83; SHEET NO 8 OF 13; DRAWING NO ENG-R5130

25mm = 30.5m; 1" = 100'-0"; GRAPHIC SCALE

TRUE NORTH; GRID N; MAG DECLINATION 13° 30'

UNCLASSIFIED

301215 02 01 B68

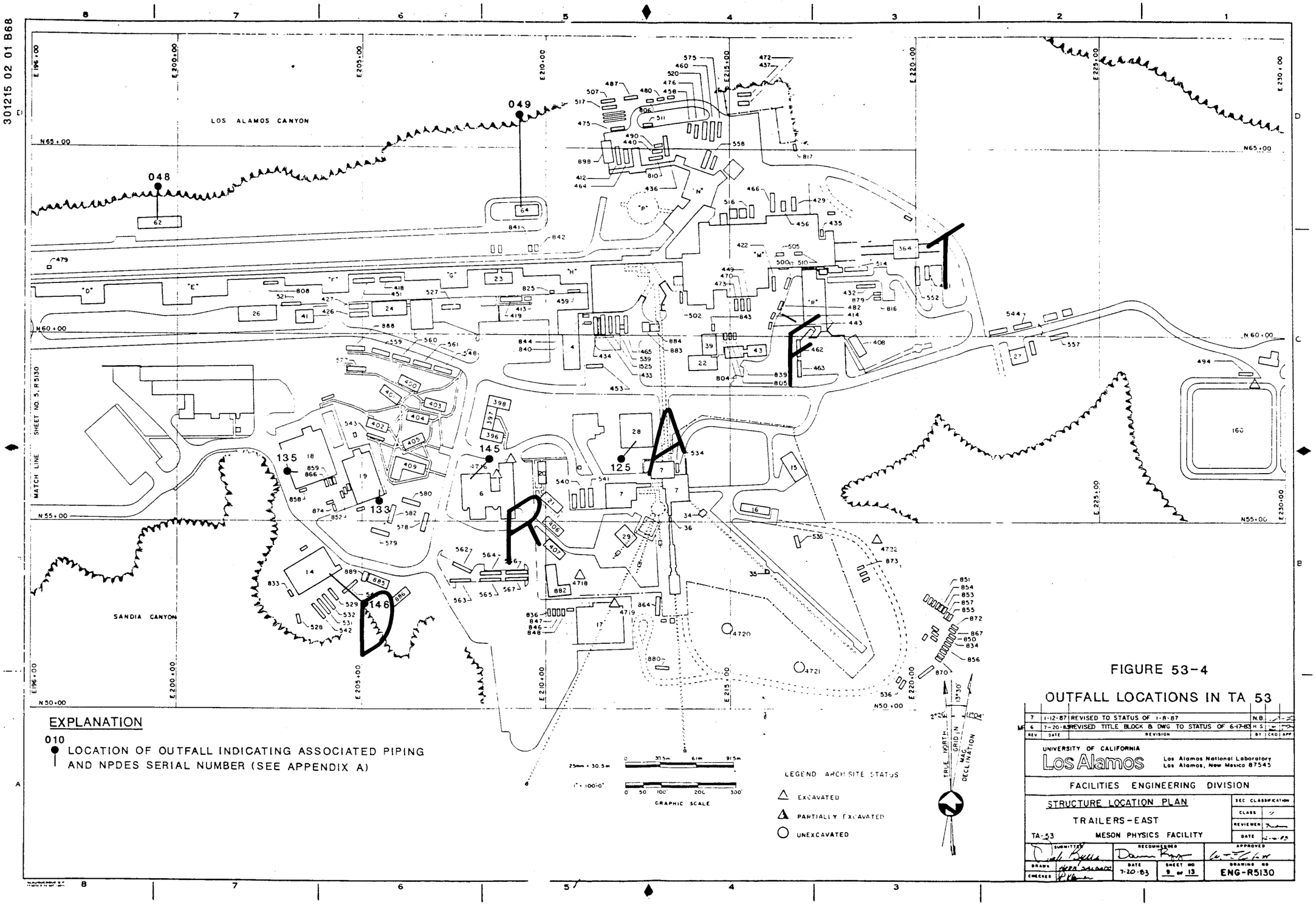
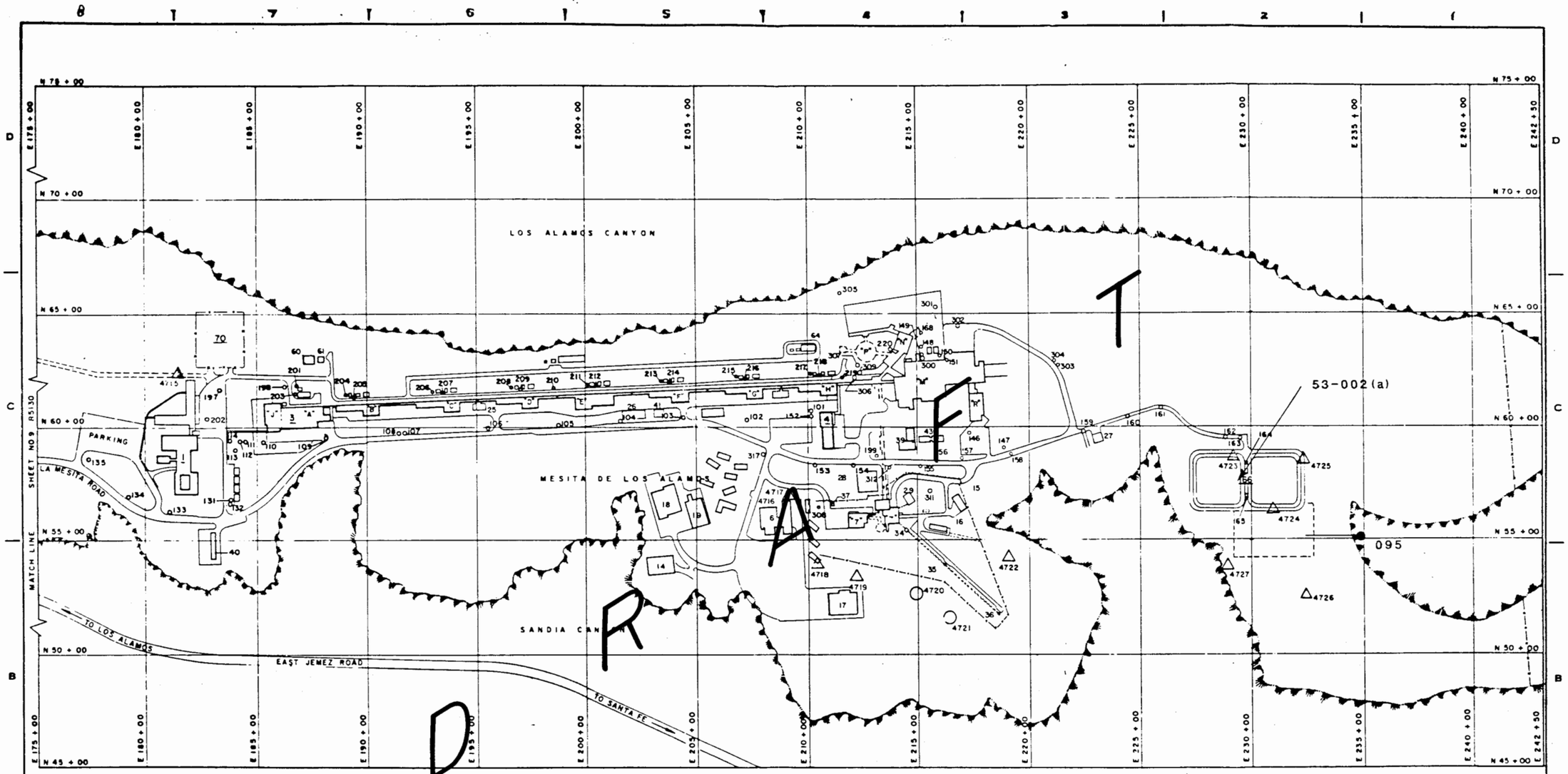


FIGURE 53-4

OUTFALL LOCATIONS IN TA 53

UNCLASSIFIED

301215 02 01 B5



LEGEND ARCHY SITE STATUS

- △ EXCAVATED
- ◭ PARTIALLY EXCAVATED
- ○ UNEXCAVATED

25mm = 61m
1" = 200'-0"
0 61m 122m 183m 244m 305m
0 100' 200' 400' 600' 800' 1000'
GRAPHIC SCALE

TRUE NORTH
GRID N
MAG N
DECLINATION

EXPLANATION

53-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

UNCLASSIFIED

FIGURE 53-5

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-53

REV	DATE	REVISION	BY	CKD	APP
10	7-13-83	REVISED TITLE BLOCK & DWG TO STATUS OF 6-17-83	HS		

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MANHOLES-EAST

TA-53 MESON PHYSICS FACILITY

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 7-13-83; SHEET NO 13 of 13; DRAWING NO ENG-R5130

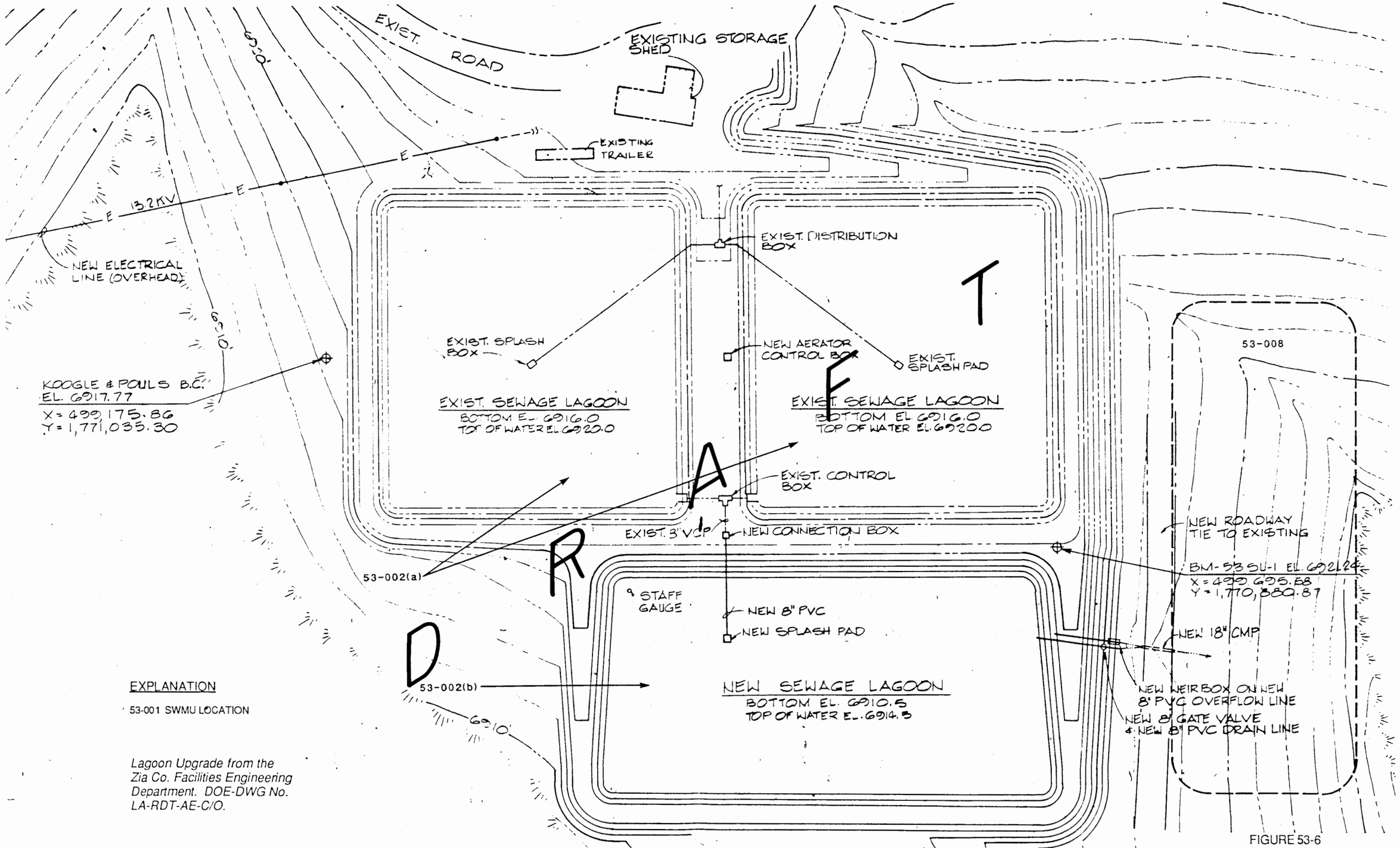

FIGURE 53-6

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-53

3014 15 02 01 B78

301215 02 01 B42

DRAFT

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53- 1	MPF- 1	LAB OFFICE BLDG		N60+00 E180+00
TA-53- 2	MPF- 2	EQUIPMENT TEST LAB		N60+00 E165+00
TA-53- 3	MPF- 3	ACCELERATOR BLDG	INCLUDES SECTORS "A"-"S"	N60+00 E185+00
TA-53- 4	MPF- 4	OPERATIONS BLDG		N60+00 E210+00
TA-53- 5	MPF- 5	SERVICE CORRIDOR		N60+00 E210+00
TA-53- 6	MPF- 6	ATQ OFFICE BUILDING		N55+00 E210+00
TA-53- 7	MPF- 7	WNR BUILDING		N55+00 E210+00
TA-53- 8	MPF- 8			
TA-53- 9	MPF- 9			
TA-53- 10	MPF- 10			
TA-53- 11	MPF- 11			
TA-53- 12	MPF- 12			
TA-53- 13	MPF- 13			
TA-53- 14	MPF- 14	ATL GENERAL LABORATORY		N55+00 E205+00
TA-53- 15	MPF- 15	WNR LAB SUPPORT BLDG		N55+00 E215+00
TA-53- 16	MPF- 16	WAREHOUSE		N55+00 E215+00
TA-53- 17	MPF- 17	PROTON STAGING BLDG		N55+00 E210+00
TA-53- 18	MPF- 18	FMIT WAREHOUSE		N55+00 E205+00
TA-53- 19	MPF- 19	ACCELERATOR TECH LAB		N55+00 E205+00
TA-53- 20	MPF- 20	MODULAR OFFICE BLDG	FORMERLY TA-21-336	N55+00 E210+00
TA-53- 21	MPF- 21	MODULAR OFFICE BLDG	FORMERLY TA-21-337	N55+00 E210+00
TA-53- 22	MPF- 22	DEVELOPMENT & TEST LAB		N60+00 E215+00
TA-53- 23	MPF- 23	COMPUTER MAINTENANCE BLD		N60+00 E210+00
TA-53- 24	MPF- 24	DATA ANALYSIS BLDG		N60+00 E205+00
TA-53- 25	MPF- 25	ACCELERATOR MAINT BLDG		N60+00 E195+00
TA-53- 26	MPF- 26	WAREHOUSE		N60+00 E200+00
TA-53- 27	MPF- 27	ZIA CRAFT SHOP		N60+00 E225+00
TA-53- 28	MPF- 28	PROTON STOR RING EQP BLD		N55+00 E215+00
TA-53- 29	MPF- 29	40 METER EXPERIMENT STA		N55+00 E215+00
TA-53- 30	MPF- 30			
TA-53- 31	MPF- 31		CANCELLED	
TA-53- 32	MPF- 32		CANCELLED	
TA-53- 33	MPF- 33			
TA-53- 34	MPF- 34	SERVICE BLDG		N55+00 E215+00
TA-53- 35	MPF- 35	DETECTOR SHED		N55+00 E215+00
TA-53- 36	MPF- 36	DETECTOR SHED		N50+00 E220+00
TA-53- 37	MPF- 37	GUARD STATION		N55+00 E215+00
TA-53- 38	MPF- 38	GUARD STATION		N60+00 E165+00
TA-53- 39	MPF- 39	SHOP & STORAGE BUILDING		N60+00 E215+00
TA-53- 40	MPF- 40	OFFICE BUILDING		N55+00 E185+00
TA-53- 41	MPF- 41	WAREHOUSE		N60+00 E205+00
TA-53- 42	MPF- 42	STAIRWAY		N60+00 E185+00
TA-53- 43	MPF- 43	OFFICE BLDG		N60+00 E215+00
TA-53- 44	MPF- 44	VINNELL BLDG OFFICE		N55+00 E185+00
TA-53- 45	MPF- 45	VINNELL BLDG OFFICE		N55+00 E185+00
TA-53- 46	MPF- 46	VINNELL BLDG OFFICE		N55+00 E185+00
TA-53- 47	MPF- 47	VINNELL BLDG OFFICE		N55+00 E185+00
TA-53- 48	MPF- 48	MANIFOLD		N55+00 E165+00
TA-53- 49	MPF- 49	RECTIFIER PAD		N60+00 E165+00
TA-53- 50	MPF- 50	R F POWER SUBSTATION		N60+00 E165+00
TA-53- 51	MPF- 51	UNIT SUBSTATION		N60+00 E165+00
TA-53- 52	MPF- 52	UNIT SUBSTATION		N60+00 E165+00
TA-53- 53	MPF- 53	TRANSFORMER STATION		N65+00 E170+00
TA-53- 54	MPF- 54	PUMPHOUSE		N65+00 E170+00
TA-53- 55	MPF- 55	TANK, WATER		N65+00 E170+00
TA-53- 56	MPF- 56	BEAD BLASTER BLDG		N55+00 E165+00
TA-53- 57	MPF- 57	RETAINING WALL		N60+00 E190+00
TA-53- 58	MPF- 58	METERING STATION, WATER		N70+00 E165+00
TA-53- 59	MPF- 59	TANK (CONTAMINATED WASTE)		N60+00 E215+00
TA-53- 60	MPF- 60	COOLING TOWER		N65+00 E190+00
TA-53- 61	MPF- 61	UTILITY BUILDING		N65+00 E190+00
TA-53- 62	MPF- 62	COOLING TOWER		N65+00 E200+00
TA-53- 63	MPF- 63	UTILITY BUILDING		N65+00 E200+00
TA-53- 64	MPF- 64	COOLING TOWER		N65+00 E210+00
TA-53- 65	MPF- 65	UTILITY BUILDING		N65+00 E210+00
TA-53- 66	MPF- 66	UNIT SUBSTATION		N65+00 E210+00
TA-53- 67	MPF- 67	UNIT SUBSTATION		N60+00 E215+00
TA-53- 68	MPF- 68	TANK (CONTAMINATED WASTE)		N60+00 E215+00
TA-53- 69	MPF- 69	TANK (CONTAMINATED WASTE)		N60+00 E215+00
TA-53- 70	MPF- 70	115 KV SUBSTATION		N65+00 E185+00
TA-53- 71	MPF- 71	UNIT SUBSTATION		N60+00 E185+00
TA-53- 72	MPF- 72	RECTIFIER SUBSTATION		N60+00 E185+00
TA-53- 73	MPF- 73	RECTIFIER PAD		N60+00 E185+00
TA-53- 74	MPF- 74	UNIT SUBSTATION		N60+00 E190+00
TA-53- 75	MPF- 75	SUBSTATION		N60+00 E190+00
TA-53- 76	MPF- 76	SUBSTATION		N60+00 E195+00
TA-53- 77	MPF- 77	UNIT SUBSTATION		N60+00 E195+00
TA-53- 78	MPF- 78	SUBSTATION		N60+00 E195+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53- 79	MPF- 79	UNIT SUBSTATION		N60+00 E195+00
TA-53- 80	MPF- 80	UNIT SUBSTATION		N65+00 E200+00
TA-53- 81	MPF- 81	SUBSTATION		N60+00 E200+00
TA-53- 82	MPF- 82	UNIT SUBSTATION		N60+00 E200+00
TA-53- 83	MPF- 83	SUBSTATION		N60+00 E205+00
TA-53- 84	MPF- 84	UNIT SUBSTATION		N60+00 E205+00
TA-53- 85	MPF- 85	SUBSTATION		N60+00 E205+00
TA-53- 86	MPF- 86	UNIT SUBSTATION		N60+00 E205+00
TA-53- 87	MPF- 87	SUBSTATION		N60+00 E210+00
TA-53- 88	MPF- 88	UNIT SUBSTATION		N60+00 E210+00
TA-53- 89	MPF- 89	TRANSFORMER STATION		N60+00 E185+00
TA-53- 90	MPF- 90		REMOVED 1971	
TA-53- 91	MPF- 91		REMOVED 1970	
TA-53- 92	MPF- 92	RECTIFIER SUBSTATION		N60+00 E190+00
TA-53- 93	MPF- 93	RECTIFIER SUBSTATION		N60+00 E195+00
TA-53- 94	MPF- 94	RECTIFIER SUBSTATION		N60+00 E195+00
TA-53- 95	MPF- 95	RECTIFIER SUBSTATION		N60+00 E200+00
TA-53- 96	MPF- 96	RECTIFIER SUBSTATION		N60+00 E205+00
TA-53- 97	MPF- 97	RECTIFIER SUBSTATION		N62+50 E207+50
TA-53- 98	MPF- 98	RECTIFIER SUBSTATION		N60+00 E210+00
TA-53- 99	MPF- 99	TRANSFORMER STATION		N60+00 E185+00
TA-53-100	MPF-100	TRANSFORMER STATION	NOT SHOWN	
TA-53-101	MPF-101	MANHOLE, SANITARY		N60+00 E210+00
TA-53-102	MPF-102	MANHOLE, SANITARY		N60+00 E205+00
TA-53-103	MPF-103	MANHOLE, SANITARY		N60+00 E205+00
TA-53-104	MPF-104	MANHOLE, SANITARY		N60+00 E200+00
TA-53-105	MPF-105	MANHOLE, SANITARY		N60+00 E200+00
TA-53-106	MPF-106	MANHOLE, SANITARY		N60+00 E195+00
TA-53-107	MPF-107	LIFT STATION, SANITARY		N60+00 E190+00
TA-53-108	MPF-108	MANHOLE, SANITARY		N60+00 E190+00
TA-53-109	MPF-109	MANHOLE, SANITARY		N60+00 E190+00
TA-53-110	MPF-110	MANHOLE, GAS		N60+00 E185+00
TA-53-111	MPF-111	MANHOLE, SANITARY		N60+00 E185+00
TA-53-112	MPF-112	MANHOLE, SANITARY		N60+00 E185+00
TA-53-113	MPF-113	MANHOLE, GAS		N60+00 E185+00
TA-53-114	MPF-114	MANHOLE, SANITARY		N60+00 E185+00
TA-53-115	MPF-115	MANHOLE, GAS		N65+00 E175+00
TA-53-116	MPF-116	MANHOLE, WATER ARV		N65+00 E170+00
TA-53-117	MPF-117	MANHOLE, WATER		N65+00 E170+00
TA-53-118	MPF-118	MANHOLE, WATER ARV		N70+00 E165+00
TA-53-119	MPF-119	MANHOLE, WATER ARV		N70+00 E165+00
TA-53-120	MPF-120	MANHOLE, WATER		N70+00 E160+00
TA-53-121	MPF-121	MANHOLE, WATER		N70+00 E150+00
TA-53-122	MPF-122	MANHOLE, WATER ARV		N70+00 E135+00
TA-53-123	MPF-123	MANHOLE, WATER ARV		N75+00 E135+00
TA-53-124	MPF-124	MANHOLE, WATER		N75+00 E130+00
TA-53-125	MPF-125	MANHOLE, GAS		N75+00 E115+00
TA-53-126	MPF-126	MANHOLE, WATER ARV		N75+00 E110+00
TA-53-127	MPF-127	MANHOLE, WATER		N75+00 E105+00
TA-53-128	MPF-128	MANHOLE, WATER METER		N75+00 E 90+00
TA-53-129	MPF-129	METERING STATION, GAS		N75+00 E 90+00
TA-53-130	MPF-130	TANK, SURGE		N60+00 E165+00
TA-53-131	MPF-131	MANHOLE, WATER		N55+00 E185+00
TA-53-132	MPF-132	MANHOLE, SANITARY		N55+00 E185+00
TA-53-133	MPF-133	MANHOLE, SANITARY		N55+00 E180+00
TA-53-134	MPF-134	MANHOLE, SANITARY		N55+00 E180+00
TA-53-135	MPF-135	MANHOLE, SANITARY		N60+00 E175+00
TA-53-136	MPF-136	MANHOLE, SANITARY		N60+00 E175+00
TA-53-137	MPF-137	MANHOLE, WATER		N60+00 E170+00
TA-53-138	MPF-138	MANHOLE, SANITARY		N60+00 E170+00
TA-53-139	MPF-139	MANHOLE, SANITARY		N60+00 E170+00
TA-53-140	MPF-140	MANHOLE, SANITARY		N60+00 E170+00
TA-53-141	MPF-141	FLUSH TANK, SANITARY		N55+00 E170+00
TA-53-142	MPF-142	MANHOLE, SANITARY	NOT SHOWN	
TA-53-143	MPF-143		CANCELLED	
TA-53-144	MPF-144	TANK (CONTAMINATED WASTE)	UNDERGROUND	N55+00 E215+00
TA-53-145	MPF-145	TANK (CONTAMINATED WASTE)	UNDERGROUND	N55+00 E215+00
TA-53-146	MPF-146	MANHOLE, SANITARY		N60+00 E220+00
TA-53-147	MPF-147	MANHOLE, SANITARY		N60+00 E220+00
TA-53-148	MPF-148	MANHOLE, STORM		N65+00 E215+00
TA-53-149	MPF-149	MANHOLE, SANITARY		N65+00 E215+00
TA-53-150	MPF-150	MANHOLE, STORM		N65+00 E215+00
TA-53-151	MPF-151	MANHOLE, STORM		N65+00 E215+00
TA-53-152	MPF-152	MANHOLE, SANITARY		N60+00 E210+00
TA-53-153	MPF-153	MANHOLE, SANITARY		N60+00 E210+00
TA-53-154	MPF-154	MANHOLE, SANITARY		N60+00 E210+00
TA-53-155	MPF-155	MANHOLE, SANITARY		N60+00 E215+00
TA-53-156	MPF-156	MANHOLE, SANITARY		N60+00 E215+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-157	MPF-157	MANHOLE, SANITARY		N60+00 E215+00
TA-53-158	MPF-158	MANHOLE, SANITARY		N60+00 E220+00
TA-53-159	MPF-159	MANHOLE, SANITARY		N60+00 E225+00
TA-53-160	MPF-160	MANHOLE, SANITARY		N60+00 E225+00
TA-53-161	MPF-161	MANHOLE, SANITARY		N60+00 E225+00
TA-53-162	MPF-162	MANHOLE, SANITARY		N60+00 E230+00
TA-53-163	MPF-163	MANHOLE, SANITARY		N60+00 E230+00
TA-53-164	MPF-164	DISTRIBUTION BOX		N60+00 E230+00
TA-53-165	MPF-165	FLOW CONTRL BOX, SANITARY		N55+00 E230+00
TA-53-166	MPF-166	LAGOON, SANITARY		N60+00 E230+00
TA-53-167	MPF-167	MECHANICAL PAD		N60+00 E215+00
TA-53-168	MPF-168	MANHOLE, STORM		N65+00 E215+00
TA-53-169	MPF-169	TRANSFORMER STATION		N60+00 E165+00
TA-53-170	MPF-170	UNIT SUBSTATION		N60+00 E215+00
TA-53-171	MPF-171	UNIT SUBSTATION		N60+00 E215+00
TA-53-172	MPF-172	UNIT SUBSTATION		N60+00 E215+00
TA-53-173	MPF-173	UNIT SUBSTATION		N60+00 E215+00
TA-53-174	MPF-174	UNIT SUBSTATION		N60+00 E215+00
TA-53-175	MPF-175	UNIT SUBSTATION		N60+00 E215+00
TA-53-176	MPF-176	UNIT SUBSTATION		N65+00 E215+00
TA-53-177	MPF-177	UNIT SUBSTATION		N65+00 E215+00
TA-53-178	MPF-178	UNIT SUBSTATION		N65+00 E215+00
TA-53-179	MPF-179	UNIT SUBSTATION		N65+00 E215+00
TA-53-180	MPF-180	UNIT SUBSTATION		N65+00 E215+00
TA-53-181	MPF-181	TRANSFORMER STATION		N60+00 E220+00
TA-53-182	MPF-182	UNIT SUBSTATION		N60+00 E215+00
TA-53-183	MPF-183	UNIT SUBSTATION		N65+00 E215+00
TA-53-184	MPF-184	UNIT SUBSTATION		N65+00 E215+00
TA-53-185	MPF-185	UNIT SUBSTATION		N65+00 E215+00
TA-53-186	MPF-186	UNIT SUBSTATION		N65+00 E215+00
TA-53-187	MPF-187	TRANSFORMER STATION		N55+00 E185+00
TA-53-188	MPF-188	TRANSFORMER STATION		N60+00 E185+00
TA-53-189	MPF-189	SUBSTATION		N65+00 E215+00
TA-53-190	MPF-190	TRANSFORMER STATION		N65+00 E215+00
TA-53-191	MPF-191	TRANSFORMER STATION		N65+00 E215+00
TA-53-192	MPF-192	TRANSFORMER STATION	NOT SHOWN	
TA-53-193	MPF-193	TRANSFORMER STATION	NOT SHOWN	
TA-53-194	MPF-194	TRANSFORMER STATION		N55+00 E210+00
TA-53-195	MPF-195	TRANSFORMER STATION		N65+00 E170+00
TA-53-196	MPF-196	TRANSFORMER STATION		N65+00 E180+00
TA-53-197	MPF-197	MANHOLE, TELEPHONE		N60+00 E185+00
TA-53-198	MPF-198	MANHOLE, TELEPHONE		N60+00 E185+00
TA-53-199	MPF-199	MANHOLE, TELEPHONE		N60+00 E215+00
TA-53-200	MPF-200			

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FIGURE 53-7

TA-53 STRUCTURE LOCATION INDEX
(1 OF 5)

REV.	DATE	REVISION	BY	CKD.	APP.
3	11-29-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-13-83	HS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-53 MESON PHYSICS FACILITY

SEC. CLASSIFICATION — CLASS. U — REVIEWER — DATE 12/16/83

SUBMITTED — RECOMMENDED — APPROVED

DRAWN RDE — CHECKED — DATE 11-29-83 — SHEET NO. 1 OF 11 — DRAWING NO. ENG-R5130

301215 02 01 B43

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-201	MPF-201	MANHOLE, ELECTRICAL		N60+00 E185+00
TA-53-202	MPF-202	MANHOLE, ELECTRICAL		N60+00 E185+00
TA-53-203	MPF-203	MANHOLE, ELECTRICAL		N60+00 E185+00
TA-53-204	MPF-204	MANHOLE, ELECTRICAL		N60+00 E190+00
TA-53-205	MPF-205	MANHOLE, ELECTRICAL		N60+00 E190+00
TA-53-206	MPF-206	MANHOLE, ELECTRICAL		N60+00 E195+00
TA-53-207	MPF-207	MANHOLE, ELECTRICAL		N60+00 E195+00
TA-53-208	MPF-208	MANHOLE, ELECTRICAL		N60+00 E195+00
TA-53-209	MPF-209	MANHOLE, ELECTRICAL		N60+00 E195+00
TA-53-210	MPF-210	MANHOLE, ELECTRICAL		N60+00 E200+00
TA-53-211	MPF-211	MANHOLE, ELECTRICAL		N60+00 E200+00
TA-53-212	MPF-212	MANHOLE, ELECTRICAL		N60+00 E200+00
TA-53-213	MPF-213	MANHOLE, ELECTRICAL		N60+00 E205+00
TA-53-214	MPF-214	MANHOLE, ELECTRICAL		N60+00 E205+00
TA-53-215	MPF-215	MANHOLE, ELECTRICAL		N60+00 E205+00
TA-53-216	MPF-216	MANHOLE, ELECTRICAL		N60+00 E205+00
TA-53-217	MPF-217	MANHOLE, ELECTRICAL		N60+00 E210+00
TA-53-218	MPF-218	MANHOLE, ELECTRICAL		N60+00 E210+00
TA-53-219	MPF-219	MANHOLE, ELECTRICAL		N60+00 E210+00
TA-53-220	MPF-220	MANHOLE, ELECTRICAL		N65+00 E215+00
TA-53-221	MPF-221	MANHOLE, ELECTRICAL		N55+00 E220+00
TA-53-222	MPF-222	SUBSTATION		N55+00 E215+00
TA-53-223	MPF-223	SUBSTATION		N55+00 E215+00
TA-53-224	MPF-224	TRANSFORMER STATION		N55+00 E210+00
TA-53-225	MPF-225	TRANSFORMER STATION	NOT SHOWN	
TA-53-226	MPF-226	TRANSFORMER STATION		N55+00 E215+00
TA-53-227	MPF-227	SUBSTATION		N55+00 E205+00
TA-53-228	MPF-228			
TA-53-229	MPF-229			
TA-53-230	MPF-230	TRAILER PEDESTAL		N65+00 E220+00
TA-53-231	MPF-231	TRAILER PEDESTAL		N60+00 E220+00
TA-53-232	MPF-232	TRAILER PEDESTAL		N60+00 E215+00
TA-53-233	MPF-233	TRAILER PEDESTAL		N65+00 E215+00
TA-53-234	MPF-234	TRAILER PEDESTAL		N65+00 E215+00
TA-53-235	MPF-235	TRAILER PEDESTAL		N60+00 E220+00
TA-53-236	MPF-236	TRAILER PEDESTAL		N65+00 E215+00
TA-53-237	MPF-237	TRAILER PEDESTAL		N65+00 E215+00
TA-53-238	MPF-236	TRAILER PEDESTAL		N65+00 E215+00
TA-53-239	MPF-239	TRAILER PEDESTAL		N65+00 E215+00
TA-53-240	MPF-240		REMOVED	
TA-53-241	MPF-241		REMOVED	
TA-53-242	MPF-242		REMOVED	
TA-53-243	MPF-243	TRAILER PEDESTAL		N65+00 E210+00
TA-53-244	MPF-244	TRAILER PEDESTAL		N65+00 E210+00
TA-53-245	MPF-245		REMOVED	
TA-53-246	MPF-246	TRAILER PEDESTAL		N65+00 E210+00
TA-53-247	MPF-247	TRAILER PEDESTAL		N65+00 E215+00
TA-53-248	MPF-248		REMOVED	
TA-53-249	MPF-249	TRAILER PEDESTAL		N65+00 E215+00
TA-53-250	MPF-250	TRAILER PEDESTAL		N60+00 E215+00
TA-53-251	MPF-251	TRAILER PEDESTAL		N60+00 E215+00
TA-53-252	MPF-252	TRAILER PEDESTAL		N55+00 E210+00
TA-53-253	MPF-253		REMOVED	
TA-53-254	MPF-254	TRAILER PEDESTAL		N55+00 E215+00
TA-53-255	MPF-255	TRAILER PEDESTAL		N55+00 E215+00
TA-53-256	MPF-256	TRAILER PEDESTAL		N50+00 E220+00
TA-53-257	MPF-257	TRAILER PEDESTAL		N65+00 E215+00
TA-53-258	MPF-258		REMOVED 1978	
TA-53-259	MPF-259		CANCELLED	
TA-53-260	MPF-260	TRAILER PEDESTAL		N60+00 E215+00
TA-53-261	MPF-261	TRAILER PEDESTAL		N60+00 E215+00
TA-53-262	MPF-262	TRAILER PEDESTAL		N60+00 E215+00
TA-53-263	MPF-263	TRAILER PEDESTAL		N65+00 E215+00
TA-53-264	MPF-264			
TA-53-265	MPF-265		CANCELLED	
TA-53-266	MPF-266			
TA-53-267	MPF-267	TRAILER PEDESTAL		N60+00 E215+00
TA-53-268	MPF-268	TRAILER PEDESTAL		N60+00 E185+00
TA-53-269	MPF-269	TRAILER PEDESTAL		N55+00 E170+00
TA-53-270	MPF-270	TRAILER PEDESTAL		N52+00 E185+00
TA-53-271	MPF-271	TRAILER PEDESTAL		N60+00 E185+00
TA-53-272	MPF-272	TRAILER PEDESTAL		N60+00 E185+00
TA-53-273	MPF-273	TRAILER PEDESTAL		N60+00 E185+00
TA-53-274	MPF-274	TRAILER PEDESTAL		N60+00 E185+00
TA-53-275	MPF-275	TRAILER PEDESTAL		N65+00 E215+00
TA-53-276	MPF-276		REMOVED	
TA-53-277	MPF-277	TRAILER PEDESTAL		N65+00 E215+00
TA-53-278	MPF-278			

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-279	MPF-279			
TA-53-280	MPF-280			
TA-53-281	MPF-281			
TA-53-282	MPF-282	TRAILER PEDESTAL		N55+00 E205+00
TA-53-283	MPF-283	TRAILER PEDESTAL		N55+00 E205+00
TA-53-284	MPF-284			
TA-53-285	MPF-285			
TA-53-286	MPF-286			
TA-53-287	MPF-287			
TA-53-288	MPF-288			
TA-53-289	MPF-289			
TA-53-290	MPF-290			
TA-53-291	MPF-291			
TA-53-292	MPF-292			
TA-53-293	MPF-293	COOLING TOWER		N55+00 E205+00
TA-53-294	MPF-294	COOLING TOWER		N55+00 E205+00
TA-53-295	MPF-295			
TA-53-296	MPF-296	LIFT STATION, SANITARY	NOT SHOWN	
TA-53-297	MPF-297			
TA-53-298	MPF-298			
TA-53-299	MPF-299			
TA-53-300	MPF-300	MANHOLE, STORM		N65+00 E215+00
TA-53-301	MPF-301	MANHOLE, SANITARY		N65+00 E215+00
TA-53-302	MPF-302	MANHOLE, SANITARY		N65+00 E215+00
TA-53-303	MPF-303	MANHOLE, SANITARY		N65+00 E220+00
TA-53-304	MPF-304	MANHOLE, SANITARY		N65+00 E220+00
TA-53-305	MPF-305	MANHOLE, SANITARY		N55+00 E210+00
TA-53-306	MPF-306	MANHOLE, SANITARY		N60+00 E210+00
TA-53-307	MPF-307	HEAT EXCHGR VALVE PIT #1		N65+00 E210+00
TA-53-308	MPF-308	MANHOLE, SANITARY		N55+00 E210+00
TA-53-309	MPF-309	HEAT EXCHGR VALVE PIT #2		N60+00 E210+00
TA-53-310	MPF-310			
TA-53-311	MPF-311	MANHOLE, SANITARY		N55+00 E215+00
TA-53-312	MPF-312	MANHOLE, SANITARY		N60+00 E215+00
TA-53-313	MPF-313			
TA-53-314	MPF-314			
TA-53-315	MPF-315			
TA-53-316	MPF-316			
TA-53-317	MPF-317	MANHOLE, SANITARY		N60+00 E210+00
TA-53-318	MPF-318			
TA-53-319	MPF-319			
TA-53-320	MPF-320	TRANSFORMER STATION	NOT SHOWN	
TA-53-321	MPF-321		CANCELLED	
TA-53-322	MPF-322	TRANSFORMER STATION	NOT SHOWN	
TA-53-323	MPF-323			
TA-53-324	MPF-324	SUBSTATION	NOT SHOWN	
TA-53-325	MPF-325	SUBSTATION	NOT SHOWN	
TA-53-326	MPF-326	MANHOLE, ELECTRICAL	NOT SHOWN	
TA-53-327	MPF-327	MANHOLE, ELECTRICAL	NOT SHOWN	
TA-53-328	MPF-328	MANHOLE, ELECTRICAL	NOT SHOWN	
TA-53-329	MPF-329			
TA-53-330	MPF-330			
TA-53-331	MPF-331			
TA-53-332	MPF-332			
TA-53-333	MPF-333			
TA-53-334	MPF-334			
TA-53-335	MPF-335			
TA-53-336	MPF-336			
TA-53-337	MPF-337			
TA-53-338	MPF-338			
TA-53-339	MPF-339			
TA-53-340	MPF-340			
TA-53-341	MPF-341			
TA-53-342	MPF-342			
TA-53-343	MPF-343			
TA-53-344	MPF-344			
TA-53-345	MPF-345			
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TA-53-348	MPF-348			
TA-53-349	MPF-349			
TA-53-350	MPF-350			
TA-53-351	MPF-351			
TA-53-352	MPF-352			
TA-53-353	MPF-353			
TA-53-354	MPF-354			
TA-53-355	MPF-355			
TA-53-356	MPF-356			

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-357	MPF-357			
TA-53-358	MPF-358			
TA-53-359	MPF-359			
TA-53-360	MPF-360			
TA-53-361	MPF-361			
TA-53-362	MPF-362			
TA-53-363	MPF-363			
TA-53-364	MPF-364			
TA-53-365	MPF-365			
TA-53-366	MPF-366			
TA-53-367	MPF-367			
TA-53-368	MPF-368			
TA-53-369	MPF-369			
TA-53-370	MPF-370			
TA-53-371	MPF-371			
TA-53-372	MPF-372			
TA-53-373	MPF-373			
TA-53-374	MPF-374			
TA-53-375	MPF-375			
TA-53-376	MPF-376			
TA-53-377	MPF-377			
TA-53-378	MPF-378			
TA-53-379	MPF-379			
TA-53-380	MPF-380			
TA-53-381	MPF-381			
TA-53-382	MPF-382			
TA-53-383	MPF-383			
TA-53-384	MPF-384			
TA-53-385	MPF-385			
TA-53-386	MPF-386			
TA-53-387	MPF-387			
TA-53-388	MPF-388			
TA-53-389	MPF-389			
TA-53-390	MPF-390			
TA-53-391	MPF-391			
TA-53-392	MPF-392			
TA-53-393	MPF-393			
TA-53-394	MPF-394			
TA-53-395	MPF-395			
TA-53-396	MPF-396			
TA-53-397	MPF-397			
TA-53-398	MPF-398			
TA-53-399	MPF-399			
TA-53-400	MPF-400	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1024	N60+00 E205+00

UNCLASSIFIED

FIGURE 53-7

TA-53 STRUCTURE LOCATION INDEX
(2 OF 5)

REV.	DATE	REVISION	BY	CHK.	APP.
5	11-29-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-13-83	MS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-53 MESON PHYSICS FACILITY

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 12-4-83

SUBMITTED
RECOMMENDED
APPROVED

DRAWN F. ROS
CHECKED
DATE 11-29-83
SHEET NO. 2 OF 22
DRAWING NO. ENG-R5130

301215 02 01 B44

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-401	MPF-401	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1025	N60+00 E205+00
TA-53-402	MPF-402	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1026	N60+00 E205+00
TA-53-403	MPF-403	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1028	N60+00 E205+00
TA-53-404	MPF-404	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1029	N60+00 E205+00
TA-53-405	MPF-405	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1034	N60+00 E205+00
TA-53-406	MPF-406	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1036	N55+00 E210+00
TA-53-407	MPF-407	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1038	N55+00 E210+00
TA-53-408	MPF-408	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1044	N60+00 E220+00
TA-53-409	MPF-409	TRANSPORTABLE OFFICE BLD	FORMERLY TA-0-1049	N55+00 E205+00
TA-53-410	MPF-410	TRAILER. MONITORING	FORMERLY TA-0-186	N55+00 E170+00
TA-53-411	MPF-411	TRAILER. OFFICE	FORMERLY TA-0-196	N55+00 E180+00
TA-53-412	MPF-412	TRAILER. OFFICE	FORMERLY TA-0-197	N65+00 E210+00
TA-53-413	MPF-413	TRAILER. OFFICE	FORMERLY TA-0-297	N60+00 E210+00
TA-53-414	MPF-414	TRAILER. LAB	FORMERLY TA-0-298	N60+00 E215+00
TA-53-415	MPF-415	TRAILER. OFFICE	FORMERLY TA-0-299	N60+00 E185+00
TA-53-416	MPF-416	TRAILER. OFFICE	FORMERLY TA-0-300	N60+00 E185+00
TA-53-417	MPF-417	TRAILER. OFFICE	FORMERLY TA-0-301	N60+00 E185+00
TA-53-418	MPF-418	TRAILER. OFFICE	FORMERLY TA-0-302	N60+00 E205+00
TA-53-419	MPF-419	TRAILER. OFFICE	FORMERLY TA-0-311	N60+00 E210+00
TA-53-420	MPF-420	TRAILER. OFFICE	FORMERLY TA-0-325	N60+00 E185+00
TA-53-421	MPF-421	TRAILER. OFFICE	FORMERLY TA-0-326	N60+00 E185+00
TA-53-422	MPF-422	TRAILER. OFFICE	FORMERLY TA-0-327	N60+00 E215+00
TA-53-423	MPF-423	TRAILER. OFFICE	FORMERLY TA-0-328	N60+00 E185+00
TA-53-424	MPF-424	TRAILER. OFFICE	FORMERLY TA-0-329	N60+00 E185+00
TA-53-425	MPF-425	TRAILER. OFFICE	FORMERLY TA-0-330	N60+00 E185+00
TA-53-426	MPF-426	TRAILER. OFFICE	FORMERLY TA-0-395	N60+00 E205+00
TA-53-427	MPF-427	TRAILER. OFFICE	FORMERLY TA-0-396	N60+00 E205+00
TA-53-428	MPF-428	TRAILER. OFFICE	FORMERLY TA-0-397	N55+00 E180+00
TA-53-429	MPF-429	TRAILER. OFFICE	FORMERLY TA-0-398	N65+00 E215+00
TA-53-430	MPF-430	TRAILER. STORAGE	FORMERLY TA-0-502	N60+00 E165+00
TA-53-431	MPF-431	TRAILER. LAB	FORMERLY TA-0-504	N60+00 E220+00
TA-53-432	MPF-432	TRAILER. OFFICE	FORMERLY TA-0-432	N60+00 E220+00
TA-53-433	MPF-433	TRAILER. OFFICE	FORMERLY TA-0-433	N60+00 E215+00
TA-53-434	MPF-434	TRAILER. OFFICE	FORMERLY TA-0-434	N60+00 E210+00
TA-53-435	MPF-435	TRAILER. OFFICE	FORMERLY TA-0-435	N65+00 E220+00
TA-53-436	MPF-436	TRAILER. OFFICE	FORMERLY TA-0-436	N65+00 E215+00
TA-53-437	MPF-437	TRAILER. STORAGE	FORMERLY TA-0-505	N65+00 E215+00
TA-53-438	MPF-438	TRAILER. STORAGE	FORMERLY TA-0-507	N60+00 E165+00
TA-53-439	MPF-439	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-508	N60+00 E190+00
TA-53-440	MPF-440	TRAILER. LAB/OFFICE	FORMERLY TA-0-509	N65+00 E210+00
TA-53-441	MPF-441	TRAILER. SHOP	FORMERLY TA-0-510	N65+00 E190+00
TA-53-442	MPF-442	TRAILER. OFFICE	FORMERLY TA-0-511	N55+00 E185+00
TA-53-443	MPF-443	TRAILER. OFFICE	FORMERLY TA-0-539	N60+00 E215+00
TA-53-444	MPF-444	TRAILER. COMPUTER	FORMERLY TA-0-550	N65+00 E215+00
TA-53-445	MPF-445	TRAILER. LAB	FORMERLY TA-0-551	N65+00 E150+00
TA-53-446	MPF-446	TRAILER. STORAGE	FORMERLY TA-0-553	N60+00 E185+00
TA-53-447	MPF-447	TRAILER. LAB/OFFICE	FORMERLY TA-0-554	N60+00 E195+00
TA-53-448	MPF-448	TRAILER. REST ROOMS	FORMERLY TA-0-448	
TA-53-449	MPF-449	TRAILER. LAB	FORMERLY TA-0-555	N60+00 E215+00
TA-53-450	MPF-450	TRAILER. OFFICE	FORMERLY TA-0-450	N55+00 E180+00
TA-53-451	MPF-451	TRAILER. SLEEPER	FORMERLY TA-0-451	N60+00 E205+00
TA-53-452	MPF-452	TRAILER. OFFICE	FORMERLY TA-0-452	N60+00 E185+00
TA-53-453	MPF-453	TRAILER. OFFICE	FORMERLY TA-0-453	N60+00 E210+00
TA-53-454	MPF-454	TRAILER. OFFICE	FORMERLY TA-0-454	N60+00 E185+00
TA-53-455	MPF-455	TRAILER. OFFICE	FORMERLY TA-0-455	N[illegible]5+00 E170+00
TA-53-456	MPF-456	TRAILER. OFFICE	FORMERLY TA-0-556	N[illegible]5+00 E215+00
TA-53-457	MPF-457	TRAILER. STORAGE	FORMERLY TA-0-557	N[illegible]5+00 E190+00
TA-53-458	MPF-458	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-558	N[illegible]5+00 E215+00
TA-53-459	MPF-459	TRAILER. STORAGE	FORMERLY TA-0-559	N60+00 E210+00
TA-53-460	MPF-460	TRAILER. LAB	FORMERLY TA-0-563	N65+00 E215+00
TA-53-461	MPF-461	TRAILER. STORGAE	FORMERLY TA-0-564	N60+00 E165+00
TA-53-462	MPF-462	TRAILER. LAB/OFFICE	FORMERLY TA-0-565	N60+00 E215+00
TA-53-463	MPF-463	TRAILER. OFFICE	FORMERLY TA-0-566	N60+00 E215+00
TA-53-464	MPF-464	TRAILER. SHOP	FORMERLY TA-0-567	N65+00 E210+00
TA-53-465	MPF-465	TRAILER. SHOP	FORMERLY TA-0-568	N60+00 E215+00
TA-53-466	MPF-466	TRAILER. OFFICE	FORMERLY TA-0-569	N65+00 E215+00
TA-53-467	MPF-467	TRAILER. OFFICE	FORMERLY TA-0-570	N60+00 E190+00
TA-53-468	MPF-468	TRAILER. STORAGE	FORMERLY TA-0-572	
TA-53-469	MPF-469	TRAILER. STORAGE	FORMERLY TA-0-578	N60+00 E195+00
TA-53-470	MPF-470	TRAILER. LAB	FORMERLY TA-0-579	N60+00 E215+00
TA-53-471	MPF-471	TRAILER. OFFICE	REMOVED 1984	
TA-53-472	MPF-472	TRAILER. STORAGE	FORMERLY TA-0-584	N65+00 E215+00
TA-53-473	MPF-473	TRAILER. LAB	FORMERLY TA-0-585	N60+00 E215+00
TA-53-474	MPF-474	TRAILER. OFFICE	FORMERLY TA-0-607	N60+00 E185+00
TA-53-475	MPF-475	TRAILER. OFFICE	FORMERLY TA-0-608	N65+00 E210+00
TA-53-476	MPF-476	TRAILER. OFFICE	FORMERLY TA-0-609	N65+00 E215+00
TA-53-477	MPF-477	TRAILER. STORAGE	FORMERLY TA-0-610	
TA-53-478	MPF-478	TRAILER. STORAGE	FORMERLY TA-0-611	N60+00 E190+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-479	MPF-479	TRAILER. STORAGE	FORMERLY TA-0-612	N60+00 E200+00
TA-53-480	MPF-480	TRAILER. STORAGE	FORMERLY TA-0-613	N65+00 E215+00
TA-53-481	MPF-481	TRAILER. STORAGE	FORMERLY TA-0-614	N60+00 E190+00
TA-53-482	MPF-482	TRAILER. LAB	FORMERLY TA-0-615	N60+00 E215+00
TA-53-483	MPF-483	TRAILER. LAB	FORMERLY TA-0-616	
TA-53-484	MPF-484	TRAILER. STORAGE	FORMERLY TA-0-617	N60+00 E190+00
TA-53-485	MPF-485	TRAILER. STORAGE	FORMERLY TA-0-618	N60+00 E185+00
TA-53-486	MPF-486	TRAILER. STORAGE	FORMERLY TA-0-619	N60+00 E185+00
TA-53-487	MPF-487	TRAILER. STORAGE	FORMERLY TA-0-620	N65+00 E210+00
TA-53-488	MPF-488	TRAILER. STORAGE	FORMERLY TA-0-621	N65+00 E190+00
TA-53-489	MPF-489	TRAILER. STORAGE	FORMERLY TA-0-622	N65+00 E190+00
TA-53-490	MPF-490	TRAILER. LAB	FORMERLY TA-0-623	N65+00 E210+00
TA-53-491	MPF-491	TRAILER. STORAGE	FORMERLY TA-0-624	N60+00 E190+00
TA-53-492	MPF-492	TRAILER. STORAGE	FORMERLY TA-0-625	
TA-53-493	MPF-493	TRAILER. STORAGE	FORMERLY TA-0-626	N65+00 E190+00
TA-53-494	MPF-494	TRAILER. STORAGE	FORMERLY TA-0-627	N60+00 E230+00
TA-53-495	MPF-495	TRAILER. STORAGE	FORMERLY TA-0-628	N65+00 E190+00
TA-53-496	MPF-496	TRAILER. STORAGE	FORMERLY TA-0-630	N60+00 E190+00
TA-53-497	MPF-497	TRAILER. STORAGE	FORMERLY TA-0-631	N55+00 E165+00
TA-53-498	MPF-498	TRAILER. STORAGE	FORMERLY TA-0-632	N60+00 E170+00
TA-53-499	MPF-499	TRAILER. STORAGE	FORMERLY TA-0-633	
TA-53-500	MPF-500	TRAILER. STORAGE	FORMERLY TA-0-634	N60+00 E215+00
TA-53-501	MPF-501	TRAILER. STORAGE	FORMERLY TA-0-635	N60+00 E195+00
TA-53-502	MPF-502	TRAILER. LAB	FORMERLY TA-0-636	N60+00 E215+00
TA-53-503	MPF-503	TRAILER. LAB/OFFICE	FORMERLY TA-0-637	
TA-53-504	MPF-504	TRAILER. STORAGE	FORMERLY TA-0-638	N[illegible]+00 E190+00
TA-53-505	MPF-505	TRAILER. REMOTE CONTROL	FORMERLY TA-0-639	N60+00 E215+00
TA-53-506	MPF-506	TRAILER. STORAGE	FORMERLY TA-0-641	
TA-53-507	MPF-507	TRAILER. STORAGE	FORMERLY TA-0-643	N65+00 E210+00
TA-53-508	MPF-508	TRAILER. STORAGE	FORMERLY TA-0-644	N55+00 E170+00
TA-53-509	MPF-509	TRAILER. STORAGE	FORMERLY TA-0-645	
TA-53-510	MPF-510	TRAILER. REMOTE CONTROL	FORMERLY TA-0-647	N60+00 E215+00
TA-53-511	MPF-511	TRAILER. STORAGE	FORMERLY TA-0-648	N65+00 E210+00
TA-53-512	MPF-512	TRAILER. STORAGE	FORMERLY TA-0-649	N60+00 E190+00
TA-53-513	MPF-513	TRAILER. OFFICE	FORMERLY TA-0-651	N60+00 E190+00
TA-53-514	MPF-514	TRAILER. LAB	FORMERLY TA-0-674	N60+00 E220+00
TA-53-515	MPF-515	TRAILER. OFFICE	FORMERLY TA-0-800	N55+00 E180+00
TA-53-516	MPF-516	TRAILER. CONTR[illegible]	FORMERLY TA-0-803	N65+00 E215+00
TA-53-517	MPF-517	TRAILER. LAB	FORMERLY TA-0-810	N65+00 E210+00
TA-53-518	MPF-518	TRAILER. CONTR[illegible]	FORMERLY TA-0-811	N60+00 E190+00
TA-53-519	MPF-519	TRAILER. STORAGE	DESTROYED 1983	
TA-53-520	MPF-520	TRAILER. OFFICE	FORMERLY TA-0-826	N65+00 E215+00
TA-53-521	MPF-521	TRAILER. OFFICE	FORMERLY TA-0-827	N60+00 E205+00
TA-53-522	MPF-522	TRAILER. LAB	FORMERLY TA-0-842	
TA-53-523	MPF-523	TRAILER. OFFICE	FORMERLY TA-0-858	N55+00 E170+00
TA-53-524	MPF-524	TRAILER. OFFICE	FORMERLY TA-0-859	N55+00 E180+00
TA-53-525	MPF-525	TRAILER. OFFICE	FORMERLY TA-0-862	N60+00 E210+00
TA-53-526	MPF-526	TRANSPORTABLE OFF. BLDG.		N55+00 E185+00
TA-53-527	MPF-527	TRAILER. LOUNGE		N60+00 E205+00
TA-53-528	MPF-528	TRAILER. SHOP	FORMERLY TA-0-506	N55+00 E205+00
TA-53-529	MPF-529	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-521	N55+00 E205+00
TA-53-530	MPF-530		CANCELLED	
TA-53-531	MPF-531	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-531	N55+00 E205+00
TA-53-532	MPF-532	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-547	N55+00 E205+00
TA-53-533	MPF-533	TRAILER. LAB	FORMERLY TA-0-552	NOT SHOWN
TA-53-534	MPF-534	TRAILER. STORAGE	FORMERLY TA-0-561	N55+00 E215+00
TA-53-535	MPF-535	TRAILER. STORAGE	FORMERLY TA-0-574	N55+00 E215+00
TA-53-536	MPF-536	TRAILER. STORAGE	FORMERLY TA-0-575	N50+00 E220+00
TA-53-537	MPF-537		CANCELLED	
TA-53-538	MPF-538	TRAILER. MONITORING	FORMERLY TA-0-582	NOT SHOWN
TA-53-539	MPF-539	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-600	N60+00 E210+00
TA-53-540	MPF-540	TRAILER. LAB/OFFICE	FORMERLY TA-0-602	N55+00 E210+00
TA-53-541	MPF-541	TRAILER. LAB/OFFICE	FORMERLY TA-0-603	N55+00 E210+00
TA-53-542	MPF-542	TRAILER. LAB/OFFICE	FORMERLY TA-0-605	N55+00 E205+00
TA-53-543	MPF-543	TRAILER. ELECTRONICS LAB	FORMERLY TA-0-606	N55+00 E205+00
TA-53-544	MPF-544	TRAILER. OFFICE	FORMERLY TA-0-629	N60+00 E225+00
TA-53-545	MPF-545	TRAILER. LAB	FORMERLY TA-0-640	N60+00 E190+00
TA-53-546	MPF-546	TRAILER. CRAFTS	RELOCATED TO TA-21-374	
TA-53-547	MPF-547		CANCELLED	
TA-53-548	MPF-548	TRAILER. OFFICE	FORMERLY TA-0-802	N60+00 E205+00
TA-53-549	MPF-549	TRAILER. LAB/OFFICE	FORMERLY TA-0-838	N55+00 E205+00
TA-53-550	MPF-550			
TA-53-551	MPF-551			
TA-53-552	MPF-552	TRAILER, LAB/OFFICE		N60+00 E220+00
TA-53-553	MPF-553			
TA-53-554	MPF-554			
TA-53-555	MPF-555			
TA-53-556	MPF-556			

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-557	MPF-557	TRAILER, OFFICE		N60+00 E225+00
TA-53-558	MPF-558	TRAILER, OFFICE		N65+00 E215+00
TA-53-559	MPF-559	TRAILER, OFFICE		N60+00 E205+00
TA-53-560	MPF-560	TRAILER, OFFICE		N60+00 E205+00
TA-53-561	MPF-561	TRAILER, OFFICE	FORMERLY TA-55-109	N60+00 E205+00
TA-53-562	MPF-562	TRAILER, OFFICE		N55+00 E210+00
TA-53-563	MPF-563	TRAILER, OFFICE		N55+00 E210+00
TA-53-564	MPF-564	TRAILER, OFFICE		N55+00 E210+00
TA-53-565	MPF-565	TRAILER, OFFICE		N55+00 E210+00
TA-53-566	MPF-566	TRAILER, OFFICE		N55+00 E210+00
TA-53-567	MPF-567	TRAILER, OFFICE		N55+00 E210+00
TA-53-568	MPF-568			
TA-53-569	MPF-569			
TA-53-570	MPF-570			
TA-53-571	MPF-571			
TA-53-572	MPF-572			
TA-53-573	MPF-573			
TA-53-574	MPF-574			
TA-53-575	MPF-575	TRAILER, OFFICE		N65+00 E215+00
TA-53-576	MPF-576			
TA-53-577	MPF-577	TRAILER, OFFICE		N60+00 E205+00
TA-53-578	MPF-578	TRAILER, OFFICE		N55+00 E205+00
TA-53-579	MPF-579	TRAILER, OFFICE		N55+00 E205+00
TA-53-580	MPF-580	TRAILER, OFFICE		N55+00 E205+00
TA-53-581	MPF-581			
TA-53-582	MPF-582	TRAILER, OFFICE		N55+00 E205+00
TA-53-583	MPF-583			
TA-53-584	MPF-584			
TA-53-585	MPF-585			
TA-53-586	MPF-586			
TA-53-587	MPF-587			
TA-53-588	MPF-588			
TA-53-589	MPF-589			
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TA-53-594	MPF-594			
TA-53-595	MPF-595			
TA-53-596	MPF-596			
TA-53-597	MPF-597			
TA-53-598	MPF-598			
TA-53-599	MPF-599			
TA-53-600	MPF-600			

UNCLASSIFIED

FIGURE 53-7

TA-53 STRUCTURE LOCATION INDEX
(3 OF 5)

REV.	DATE	REVISION	BY	CHK.	APP.
6	11-12-87	REVISED TO STATUS OF 1-8-87	NB		
5	11-29-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-13-83	HS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-53 MESON PHYSICS FACILITY

DATE 11-29-83 — SHEET NO. 3 OF 13 — DRAWING NO. ENG-R5130

301215 02 01 B45

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-601	MPF-601			
TA-53-602	MPF-602			
TA-53-603	MPF-603			
TA-53-604	MPF-604			
TA-53-605	MPF-605			
TA-53-606	MPF-606			
TA-53-607	MPF-607			
TA-53-608	MPF-608			
TA-53-609	MPF-609			
TA-53-610	MPF-610			
TA-53-611	MPF-611			
TA-53-612	MPF-612			
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TA-53-616	MPF-616			
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TA-53-618	MPF-618			
TA-53-619	MPF-619			
TA-53-620	MPF-620			
TA-53-621	MPF-621			
TA-53-622	MPF-622			
TA-53-623	MPF-623			
TA-53-624	MPF-624			
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TA-53-628	MPF-628			
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TA-53-633	MPF-633			
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TA-53-673	MPF-673			
TA-53-674	MPF-674			
TA-53-675	MPF-675			
TA-53-676	MPF-676			
TA-53-677	MPF-677			
TA-53-678	MPF-678			

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-679	MPF-679			
TA-53-680	MPF-680			
TA-53-681	MPF-681			
TA-53-682	MPF-682			
TA-53-683	MPF-683			
TA-53-684	MPF-684			
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TA-53-720	MPF-720			
TA-53-721	MPF-721			
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TA-53-723	MPF-723			
TA-53-724	MPF-724			
TA-53-725	MPF-725			
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TA-53-727	MPF-727			
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TA-53-729	MPF-729			
TA-53-730	MPF-730			
TA-53-731	MPF-731			
TA-53-732	MPF-732			
TA-53-733	MPF-733			
TA-53-734	MPF-734			
TA-53-735	MPF-735			
TA-53-736	MPF-736			
TA-53-737	MPF-737			
TA-53-738	MPF-738			
TA-53-739	MPF-739			
TA-53-740	MPF-740			
TA-53-741	MPF-741			
TA-53-742	MPF-742			
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TA-53-746	MPF-746			
TA-53-747	MPF-747			
TA-53-748	MPF-748			
TA-53-749	MPF-749			
TA-53-750	MPF-750			
TA-53-751	MPF-751			
TA-53-752	MPF-752			
TA-53-753	MPF-753			
TA-53-754	MPF-754			
TA-53-755	MPF-755			
TA-53-756	MPF-756			

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-757	MPF-757			
TA-53-758	MPF-758			
TA-53-759	MPF-759			
TA-53-760	MPF-760			
TA-53-761	MPF-761			
TA-53-762	MPF-762			
TA-53-763	MPF-763			
TA-53-764	MPF-764			
TA-53-765	MPF-765			
TA-53-766	MPF-766			
TA-53-767	MPF-767			
TA-53-768	MPF-768			
TA-53-769	MPF-769			
TA-53-770	MPF-770			
TA-53-771	MPF-771			
TA-53-772	MPF-772			
TA-53-773	MPF-773			
TA-53-774	MPF-774			
TA-53-775	MPF-775			
TA-53-776	MPF-776			
TA-53-777	MPF-777			
TA-53-778	MPF-778			
TA-53-779	MPF-779			
TA-53-780	MPF-780			
TA-53-781	MPF-781			
TA-53-782	MPF-782			
TA-53-783	MPF-783			
TA-53-784	MPF-784			
TA-53-785	MPF-785			
TA-53-786	MPF-786			
TA-53-787	MPF-787			
TA-53-788	MPF-788			
TA-53-789	MPF-789			
TA-53-790	MPF-790			
TA-53-791	MPF-791			
TA-53-792	MPF-792			
TA-53-793	MPF-793			
TA-53-794	MPF-794			
TA-53-795	MPF-795			
TA-53-796	MPF-796			
TA-53-797	MPF-797			
TA-53-798	MPF-798			
TA-53-799	MPF-799			
TA-53-800	MPF-800			

UNCLASSIFIED

FIGURE 53-7

TA-53 STRUCTURE LOCATION INDEX
(4 OF 5)

REV.	DATE	REVISION	BY	DRD.	APP.
5	11-29-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-13-83	MS		

UNIVERSITY OF CALIFORNIA
Los Alamos
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO 87545

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-53 MESON PHYSICS FACILITY

SEC. CLASSIFICATION
CLASS. U
REVISED
DATE 12-4-83

SUBMITTED
DRAWN
CHECKED
DATE 11-29-83
SHEET NO. 1 OF 12
DRAWING NO. ENG-R5130

301215 02 01 B46

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-801	MPF-801			
TA-53-802	MPF-802	TRANSPORTAINER, STORAGE		N60+00 E190+00
TA-53-803	MPF-803	TRANSPORTAINER, STORAGE		N60+00 E190+00
TA-53-804	MPF-804	TRANSPORTAINER, STORAGE		N60+00 E215+00
TA-53-805	MPF-805	TRANSPORTAINER, STORAGE		N60+00 E215+00
TA-53-806	MPF-806	TRANSPORTAINER, STORAGE		N65+00 E215+00
TA-53-807	MPF-807	TRANSPORTAINER, STORAGE		N60+00 E195+00
TA-53-808	MPF-808	TRANSPORTAINER, STORAGE		N60+00 E200+00
TA-53-809	MPF-809	TRANSPORTAINER, STORAGE		N55+00 E180+00
TA-53-810	MPF-810	TRAILER, OFFICE		N65+00 E215+00
TA-53-811	MPF-811			
TA-53-812	MPF-812	TRANSPORTAINER, STORAGE		N60+00 E190+00
TA-53-813	MPF-813	TRANSPORTAINER, STORAGE		N55+00 E180+00
TA-53-814	MPF-814	TRANSPORTAINER, STORAGE		N60+00 E165+00
TA-53-815	MPF-815	TRANSPORTAINER, STORAGE		N55+00 E180+00
TA-53-816	MPF-816	TRANSPORTAINER, STORAGE		N60+00 E220+00
TA-53-817	MPF-817	TRANSPORTAINER, STORAGE		N65+00 E215+00
TA-53-818	MPF-818	TRANSPORTAINER, STORAGE		N60+00 E190+00
TA-53-819	MPF-819	TRANSPORTAINER, STORAGE		N60+00 E190+00
TA-53-820	MPF-820	TRANSPORTAINER, STORAGE		
TA-53-821	MPF-821	TRANSPORTAINER, STORAGE		
TA-53-822	MPF-822	TRANSPORTAINER, STORAGE		
TA-53-823	MPF-823			
TA-53-824	MPF-824	TRANSPORTAINER, STORAGE	REMOVED 1985	
TA-53-825	MPF-825	TRANSPORTAINER, STORAGE		N60+00 E210+00
TA-53-826	MPF-826			
TA-53-827	MPF-827	STORAGE SHED		
TA-53-828	MPF-828	TRANSPORTAINER, STORAGE		N60+00 E165+00
TA-53-829	MPF-829	TRANSPORTAINER, STORAGE		N60+00 E165+00
TA-53-830	MPF-830	TRANSPORTAINER, STORAGE		N60+00 E165+00
TA-53-831	MPF-831	TRANSPORTAINER, STORAGE		N60+00 E165+00
TA-53-832	MPF-832	TRANSPORTAINER, STORAGE		N60+00 E165+00
TA-53-833	MPF-833	TRANSPORTAINER, STORAGE		N55+00 E205+00
TA-53-834	MPF-834	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-835	MPF-835	TRANSPORTAINER, STORAGE		N55+00 E205+00
TA-53-836	MPF-836	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-837	MPF-837	TRANSPORTAINER, STORAGE	REMOVED 1984	
TA-53-838	MPF-838			
TA-53-839	MPF-839	TRANSPORTAINER, STORAGE		N60+00 E215+00
TA-53-840	MPF-840	TRANSPORTAINER, STORAGE		N60+00 E210+00
TA-53-841	MPF-841	TRANSPORTAINER, STORAGE		N60+00 E210+00
TA-53-842	MPF-842	TRANSPORTAINER, STORAGE		N60+00 E210+00
TA-53-843	MPF-843	TRANSPORTAINER, STORAGE		N60+00 E215+00
TA-53-844	MPF-844	TRANSPORTAINER, STORAGE		N60+00 E210+00
TA-53-845	MPF-845	TRANSPORTAINER, STORAGE		N55+00 E180+00
TA-53-846	MPF-846	TRANSPORTAINER, STORAGE		N50+00 E210+00
TA-53-847	MPF-847	TRANSPORTAINER, STORAGE		N50+00 E210+00
TA-53-848	MPF-848	TRANSPORTAINER, STORAGE		N50+00 E210+00
TA-53-849	MPF-849	TRANSPORTAINER, STORAGE		
TA-53-850	MPF-850	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-851	MPF-851	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-852	MPF-852	TRANSPORTAINER, STORAGE		N55+00 E205+00
TA-53-853	MPF-853	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-854	MPF-854	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-855	MPF-855	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-856	MPF-856	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-857	MPF-857	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-858	MPF-858	TRANSPORTAINER, STORAGE		N55+00 E205+00
TA-53-859	MPF-859	TRANSPORTAINER, STORAGE		N55+00 E205+00
TA-53-860	MPF-860	TRANSPORTAINER, STORAGE		N55+00 E165+00
TA-53-861	MPF-861	TRANSPORTAINER, STORAGE		
TA-53-862	MPF-862	TRANSPORTAINER, STORAGE		
TA-53-863	MPF-863	TRANSPORTAINER, STORAGE		
TA-53-864	MPF-864	TRANSPORTAINER, STORAGE		
TA-53-865	MPF-865	TRANSPORTAINER, STORAGE		
TA-53-866	MPF-866	TRANSPORTAINER, STORAGE		N55+00 E205+00
TA-53-867	MPF-867	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-868	MPF-868	TRANSPORTAINER, STORAGE		
TA-53-869	MPF-869	TRANSPORTAINER, STORAGE		
TA-53-870	MPF-870	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-671	MPF-871	TRANSPORTAINER, STORAGE		
TA-53-872	MPF-872	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-873	MPF-873	TRANSPORTAINER, STORAGE		N55+00 E220+00
TA-53-874	MPF-874	TRANSPORTAINER, STORAGE		N55+00 E205+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-53-879	MPF-879	TRANSPORTAINER, STORAGE		N60+00 E220+00
TA-53-880	MPF-880	TRAILER, OFFICE		N50+00 E215+00
TA-53-881	MPF-881	TRANSPORTAINER, STORAGE		
TA-53-882	MPF-882	TRANSPORTABLE OFF BLDG		N55+00 E210+00
TA-53-883	MPF-883	STORAGE BLDG.		N60+00 E215+00
TA-53-884	MPF-884	STORAGE BLDG.		N60+00 E215+00
TA-53-885	MPF-885	TRANSPORTABLE OFF BLDG		N55+00 E205+00
TA-53-886	MPF-886	TRANSPORTABLE OFF BLDG		N55+00 E205+00
TA-53-888	MPF-888	TRAILER, OFFICE		N60+00 E205+00
TA-53-889	MPF-889	TRAILER, REST ROOM		N55+00 E205+00
TA-53-898	MPF-898	TRANSPORTABLE OFF BLDG		N65+00 E210+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

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FIGURE 53-7

TA-53 STRUCTURE LOCATION INDEX
(5 OF 5)

REV.	DATE	REVISION	BY	CHK.	APP.
6	1-12-87	REVISED TO STATUS OF 1-8-87	MLB		
5	11-29-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-13-83	HS		

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INDEX SHEET
STRUCTURE LOCATION PLAN
TA-53 MESON PHYSICS FACILITY

SUBMITTED: RDE
DATE: 11-29-83
SHEET NO. 9 OF 13
DRAWING NO. ENG-R5130

TA-54

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 54 contains four waste handling/disposal areas, with supporting office space.

TA-54 lies at elevations between 6,650 and 6,890 feet asl. It is located on Mesita del Buey which is bounded by Canada del Buey Canyon on the north and by Pajarito Canyon on the south. TA-54 lies on welded Bandelier Tuff. The area is in the Pinon-Juniper overstory vegetation zone. The principal soil series present at TA-54 is Hackroy sandy loam. The Hackroy soil series is shallow or very shallow (20 to 50 cm), well-drained, and typical of mesa tops. The soil is slowly permeable (0.15 to 0.50 cm/h), and has a low water-holding capacity. The Hackroy series has a moderate water erosion hazard (0.65 to 1.8 cm soil/yr, from an unprotected surface) and medium runoff (0.14 to 0.51 cm, measured as the soil loss from bare soil exposed to a two-year, 30-minute precipitation event).

At TA-54, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,790 and 5,890 feet asl. There are over 800 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

54-001 HAZARDOUS WASTE CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1963 - PRESENT

UNIT INFORMATION

The central storage area for all hazardous waste at LANL prior to ultimate disposal is MDA-L. Four container storage areas for hazardous waste were described in the RFA: 1) The area in MDA-L contains a bermed storage area for pails and drums [54-001(a)]. This site is constructed over an old lab burial site which was in operation from 1963 to 1970. The area is permitted for storage of hazardous waste. 2) There is an area where chemical waste containers are accumulated for packaging and storing at TA-54-31 [54-001(b)]. 3) A bermed asphalt pad area stores waste oil and hazardous materials at MDA-G [54-001(c)]. 4) PCB building, TA-54-39 [54-001(d)], will be used to store PCB waste. The building dimensions are 40' x 40'. 5) Another storage area, TA-54-32 [54-001(e)], is a concrete pad divided into six cells, each with a collection sump. The area is roofed and the drums are stored on grating and pallets.

WASTE INFORMATION

Most hazardous waste types are managed at these locations. This includes the storage of solvents, oils, gas cylinders, mixed waste, miscellaneous chemicals, and coolants. The packaging site manages primarily lab pack quantities of hazardous waste. The bermed asphalt pad stores containers of waste oil that could contain metals and solvents but is primarily used for hazardous material storage.

RELEASE INFORMATION

LANL employees state that a spill has occurred in the MDA-L storage area. No evidence of release was observed at the packaging facility during the VSI. Oil staining on the asphalt was observed during the VSI.

DRAFT

54-002 COMPRESSED GAS STORAGE

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): OTHER: COMPRESSED GAS STORAGE
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

The compressed gas cylinders are stored at various locations throughout the area near MDA-L. The cylinders are stored at these locations until detonated by LANL.

WASTE INFORMATION

Cylinders containing various types of compressed gases are stored in these areas.

RELEASE INFORMATION

Some of the cylinders may be leaking their contents to the air when they are brought to the area.

DRAFT

54-003 MATERIAL DISPOSAL AREA G

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL/STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1957 - PRESENT

UNIT INFORMATION

Material Disposal Area G (MDA-G) is the main active radioactive waste burial/storage site for LANL. In 1977, the extent of the disposal area was 63 acres and 100 acres have been dedicated to MDA-G for future expansions. The burial/storage facilities include pits, shafts, trenches, pads and storage buildings of varying dimensions. MDA-G has stopped receiving RCRA-regulated chemical waste under interim status. It will continue to receive radioactive and PCB waste. The DOE has applied for an interim-status groundwater waiver. In response to the waiver application, the NMEID issued a compliance order to complete a vadose zone characterization program. The DOE submitted a final report on the vadose zone characterization to the EID in March, 1987. In addition, two container storage areas for radioactive waste were identified in the RFA. There are four storage pads at MDA-G for transuranic waste [54-003(a)]. Only one of the four pads, an open-ended asphalt pad, was active during the VSI. All four of these pads will be permitted for mixed waste storage. A drum storage area at TA-54-8 [54-003(b)] is used to store drums prior to spraying them with grease as a corrosion inhibitor. According to the RFA, the drums are on plywood inside a metal storage shed. This shed is located inside the fenced area of MDA-G. It is 15' x 40' x 12' high and was built in about 1976.

WASTE INFORMATION

MDA-G is used for burial of waste contaminated with radioactivity having less than 100 nCi/g of TRU. The principle radioactive wastes are plutonium, uranium, tritium, fission products, and induced activity. From 1971 to 1983, solid waste contaminated with transuranic radionuclides at activity levels >10 nCi/g of waste (>100 nCi/g for plutonium-238) has been retrievably stored for possible transport to a repository. The activity level limit for all TRU waste to be stored for retrieval was changed to >100 nCi/g in 1983. Additionally asbestos waste and materials contaminated with PCBs are placed in MDA-G. MDA-G has served as a mixed waste disposal site. The waste stored in the container storage areas is transuranic waste.

RELEASE INFORMATION

Environmental monitoring of MDA-G has been conducted since 1970 and includes soil moisture measurements, vertical and horizontal drill holes, air sampling, surface sampling and direct radiation measurements. The monitoring program results indicated that: 1) tritium is diffusing from its disposal location, 2) there is surface contamination and elevated local air plutonium-239 concentrations, 3) plutonium-238 and -239 are in near-surface soil, 4) stream sediments had 0.73 pCi/g of plutonium-238 and 0.44 pCi/g of plutonium-239 in 1984. Stains on the soil were noted at the grease spraying area during the VSI. No releases are known from the MDA-G storage pad.

54-004 MATERIAL DISPOSAL AREA H

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1959 - PRESENT

UNIT INFORMATION

Material Disposal Area H (MDA-H) consists of nine shafts of 6-foot diameter and up to 60 feet deep. Most of the shafts were built between 1959 and 1963 for disposal of classified uncontaminated material and were used from 1960 to 1979. Shafts 1-8 are apparently capped with soil to an unknown depth. Shaft 9 was first used in 1980. No radioactive or RCRA-regulated waste has been placed in Shaft 9 since 1984. A closure plan was submitted for MDA-H under RCRA regulations and the site is no longer used.

WASTE INFORMATION

Materials that were not radioactively contaminated were intended for MDA-H. However, it is known that parts contaminated with or containing depleted uranium have been placed in MDA-H and there is a possibility that some transuranic-contaminated parts were placed in Shafts 1-8. Beryllium, lithium, and HE-contaminated items were also placed in Shafts 1-8. Two containers with 15 lbs of solid lithium hydride was placed in Shaft 9 in 1981. Other material in Shaft 9 includes beryllium, magnesium, depleted uranium, and various foams.

RELEASE INFORMATION

Tritium at trace levels was detected in subsurface samples taken near one of the shafts.

54-005 MATERIAL DISPOSAL AREA J

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: PRE 1966 - PRESENT

UNIT INFORMATION

Material Disposal Area J (MDA-J) is a 2.65-acre site that is used for disposal of wastes over which LANL wishes to maintain administrative control. Pit 1 was filled in 1966. Pit 2 was filled in 1984. A third pit and two 6-foot diameter shafts were excavated in 1984 and are currently used for disposal. During the VSI, drums of ammonium bifluoride were observed in the pit prior to the drums being covered with soil.

WASTE INFORMATION

MDA-J received equipment wastes that were possibly contaminated with HE. All wastes currently buried at MDA-J must be certified to be free of detonatable quantities of HE.

RELEASE INFORMATION

It is unknown whether hazardous releases have occurred from MDA-J.

DRAFT

54-006 MATERIAL DISPOSAL AREA L

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: 1964 - 1985

UNIT INFORMATION

Material Disposal Area L (MDA-L) is a 2-acre site that was the principle chemical waste disposal area for LANL from 1964 to 1985. The area consists of one pit, several shafts, and three surface impoundments. The pit was used for all wastes from 1964 to 1975. From 1975 to 1985, the waste was placed in shafts that range from 2 to 8 feet in diameter and up to 65 feet deep. The waste was segregated into different shafts (organics, inorganics, oils, acids, bases, reactive metals) to assure that incompatible chemicals did not mix. The shafts have been filled and capped with concrete. The surface impoundments were used to dispose of bulk quantities of treated aqueous waste. The water evaporated and left a salt cake in the bottom of the pit. When a salt cake reached 1 yard from the top of the impoundment it was backfilled. This practice was discontinued in 1984. The two open impoundments are undergoing characterization to determine closure actions to be taken.

WASTE INFORMATION

MDA-L received chemical wastes, including liquids, which were not contaminated with radionuclides.

RELEASE INFORMATION

It is unknown whether releases of hazardous constituents have occurred.

DRAFT

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Three septic systems are present in TA-54.

STRUCTURE	SWMU NO.	CAPACITY	OVERFLOW
TA-54-16	54-007(a)	1000 gal.	leach field
TA-54-28	54-007(b)	1000 gal.	seepage pit.
TA-54-West	54-007(c)	2000 gal.	septic system and evapotranspiration bed

TA-54-16 serves one person and TA-54-28 serves 13 people, both systems appear to be operating adequately. The new septic system and evapotranspiration bed are located in TA-54-West.

WASTE INFORMATION

These systems generally receive sanitary waste; however, because they are located in hazardous and mixed waste handling areas they may contain hazardous constituents.

RELEASE INFORMATION

It is unknown whether there have been hazardous releases beyond the boundaries of the overflow areas for these systems.

DRAFT

54-008 SEWAGE TANK

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1987 - PRESENT

UNIT INFORMATION

According to engineering records TA-54-43 is a 1700 gallon sewage tank located northwest of TA-54-39. This tank is believed to have been built in 1988. Further information is lacking.

WASTE INFORMATION

The waste is probably sanitary waste. However, because of its location hazardous or radioactive contamination may be possible.

RELEASE INFORMATION

There is no information on releases from this unit. It is unknown whether hazardous constituents are present or have been released.

DRAFT

54-009 TREATMENT TANKS

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): ABOVEGROUND TANK
UNIT USE: STORAGE/TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1984 - PRESENT

UNIT INFORMATION

Four treatment tanks are present in MDA-L. The tanks are 1665 gallons each and are constructed of carbon steel and lined with plastic. One mixing tank is also present. It has a 210 gallon capacity and is constructed of stainless steel. The tanks are located on a bermed concrete pad.

WASTE INFORMATION

These tanks treat ammonium bifluoride solutions and lithium hydride solutions that were used to clean cooling towers. Other wastes are barium sand and radioactively contaminated lithium hydride.

RELEASE INFORMATION

No hazardous releases are known to have occurred.

DRAFT

54-010 UNDERGROUND TANK

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): UNDERGROUND STORAGE TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1978 - PRESENT

UNIT INFORMATION

TA-54-17 is a steel, 600-gallon underground storage tank. The tank is used to hold washwater from decontamination of items and shower water. This tank has no release controls, however the liquid in the tank is picked up for transport to TA-50.

WASTE INFORMATION

The wastes consist of washwater that may contain mixed waste.

RELEASE INFORMATION

It is unknown whether there have been hazardous releases from this tank.

DRAFT

54-011 TRU WASTE PACKAGING

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): OTHER: WASTE PACKAGING
UNIT USE: TREATMENT/STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1988 - PRESENT

UNIT INFORMATION

TA-54-38 is a building in which TRU waste which has been in storage will be prepared for shipment offsite to WIPP. The building dimensions are about 80' x 80'.

WASTE INFORMATION

The wastes consist of possible mixed waste constituents containing greater than 100 nanocurie/gram of transuranic material.

RELEASE INFORMATION

There have been no known releases of hazardous constituents.

DRAFT

54-012 COMPACTOR

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): OTHER: COMPACTOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A compactor is operated at TA-54 to compact radioactive solid waste. The unit is located at MDA-G.

WASTE INFORMATION

The wastes contain radionuclides. In previous years, hazardous wastes may also have been present.

RELEASE INFORMATION

There have been no known hazardous releases.

DRAFT

54-013 TRUCK WASHING PIT AND OPERATIONAL RELEASE

SUMMARY

LOCATION: TA-54
TYPE OF UNIT(s): PIT/OPERATIONAL RELEASE
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

Trucks and equipment are washed in a decontamination pit to remove small amounts of radionuclides. The liquid from the washing operation is discharged to the ground.

WASTE INFORMATION

The wastes consist of washwater with low levels of radioactivity. The washwater may also contain oil and grease.

RELEASE INFORMATION

The extent of releases of hazardous constituents is unknown.

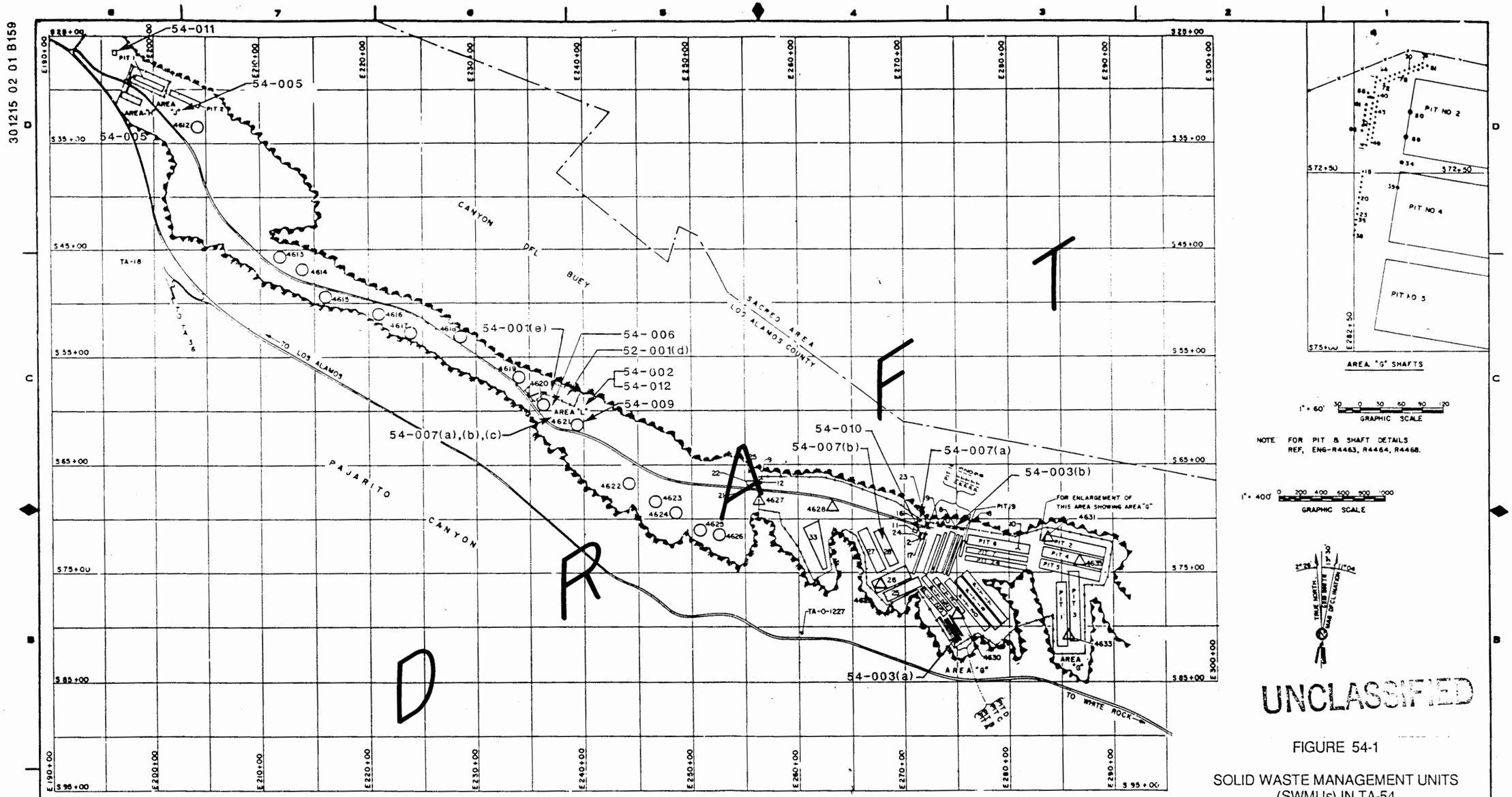
DRAFT

TA-54 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
54-001(a)	54-1
54-001(b)	54-1
54-001(c)	54-1
54-001(d)	54-1
54-001(e)	54-1
54-002	54-1
54-003(a)	54-1, 54-2
54-003(b)	54-1, 54-2
54-004	54-1, 54-5
54-005	54-1, 54-3
54-006	54-1, 54-4
54-007(a)	54-1
54-007(b)	54-1
54-007(c)	Not shown
54-008	Not shown
54-009	54-1
54-010	54-1
54-011	54-1
54-012	54-1
54-013	Not shown

DRAFT

NOTE: Some structure locations contain more than one SWMU.



STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-54-2	MD-2	OPERATIONS BLDG		S70+00 E270+00
TA-54-3	MD-3	TRANSFORMER STATION	NOT SHOWN	
TA-54-4	MD-4	TRANSFORMER STATION		S70+00 E270+00
TA-54-5	MD-5	TRANSFORMER STATION		S70+00 E270+00
TA-54-6	MD-6	TRANSFORMER STATION		S70+00 E275+00
TA-54-7	MD-7	TRANSFORMER STATION		S70+00 E280+00
TA-54-8	MD-8	CONTAMINATED DRUM STORAGE		S70+00 E275+00
TA-54-9	MD-9	TRANSFORMER STATION		S65+00 E255+00
TA-54-10	MD-10	METEOROLOGICAL TOWER		S75+00 E290+00
TA-54-11	MD-11	WASTE MANAGEMENT CTRL. FAC		S70+00 E270+00
TA-54-12	MD-12	CONSTRUCTION SHACK		S65+00 E255+00
TA-54-16	MD-16	SEPTIC TANK		S70+00 E270+00
TA-54-17	MD-17	HOT LIQUID HOLDING TANK		S70+00 E270+00
TA-54-18	MD-18	TANK, WATER		S70+00 E275+00
TA-54-19	MD-19	TANK, WATER U.G.		S70+00 E275+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-54-20	MD-20	EQUIPMENT SHELTER		S75+00 E275+00
TA-54-21	MD-21	SECURITY GATE		S70+00 E255+00
TA-54-22	MD-22	TRANSPORTABLE OFFICE BLDG		S65+00 E255+00
TA-54-23	MD-23	TRAILER, STORAGE	FORMERLY TA-0-583	S75+00 E270+00
TA-54-24	MD-24	TRAILER, CHANGE ROOM	FORMERLY TA-0-670	S75+00 E270+00
TA-54-25	MD-25	BACKFLOW PREVENTER BLDG		S70+00 E260+00
TA-0-1227	ULR-1227	BACKFLOW PREVENTER BLDG		S80+00 E280+00

LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

EXPLANATION

54-001 SWMU LOCATION

FIGURE 54-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-54

REV	DATE	REVISION	BY	CKD	APP
7	8-8-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-2-83	H.S.		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-54 WASTE DISPOSAL SITE

SEC CLASSIFICATION: CLASS. X

REVIEWED

DATE 10-18-83

SUBMITTED

RECOMMENDED

APPROVED

DRAWN

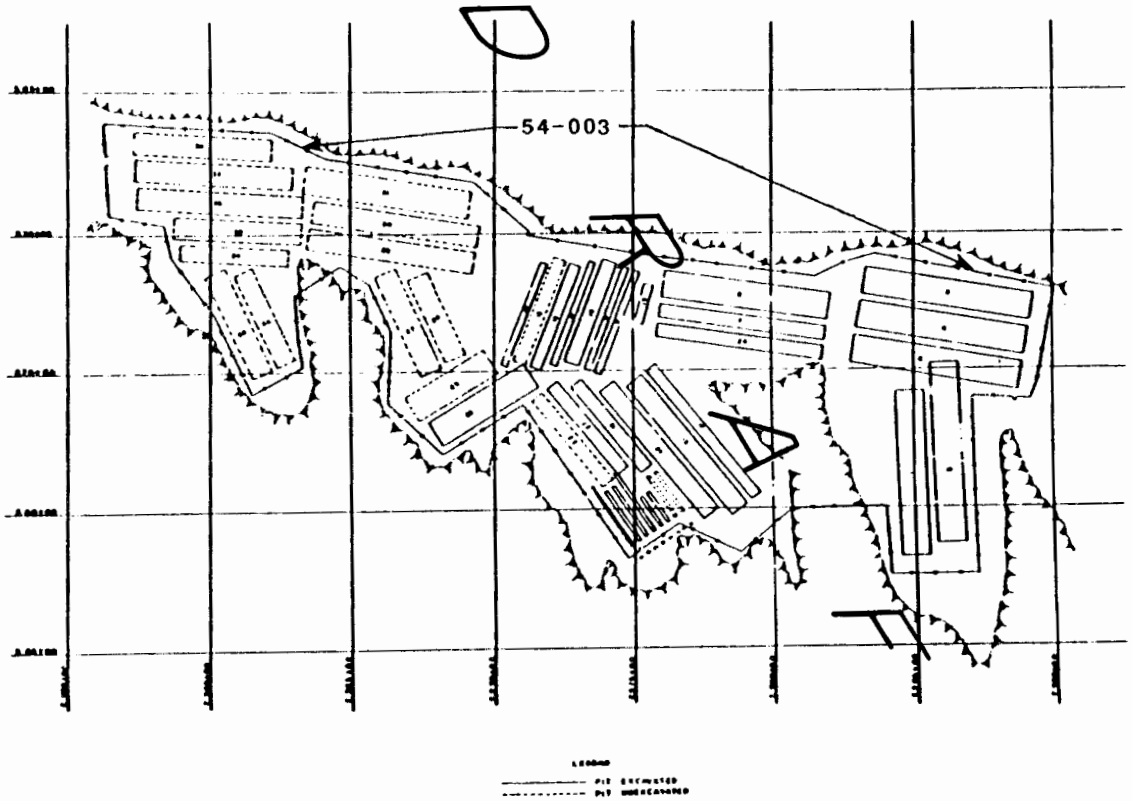
CHECKED

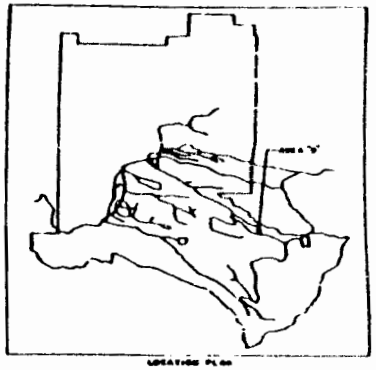
DATE 8-8-83

SHEET NO. 1 OF 1

DRAWING NO. ENG-R5131

301215 02 01 B159





EXPLANATION

54-001 SWMU LOCATION

NOTES

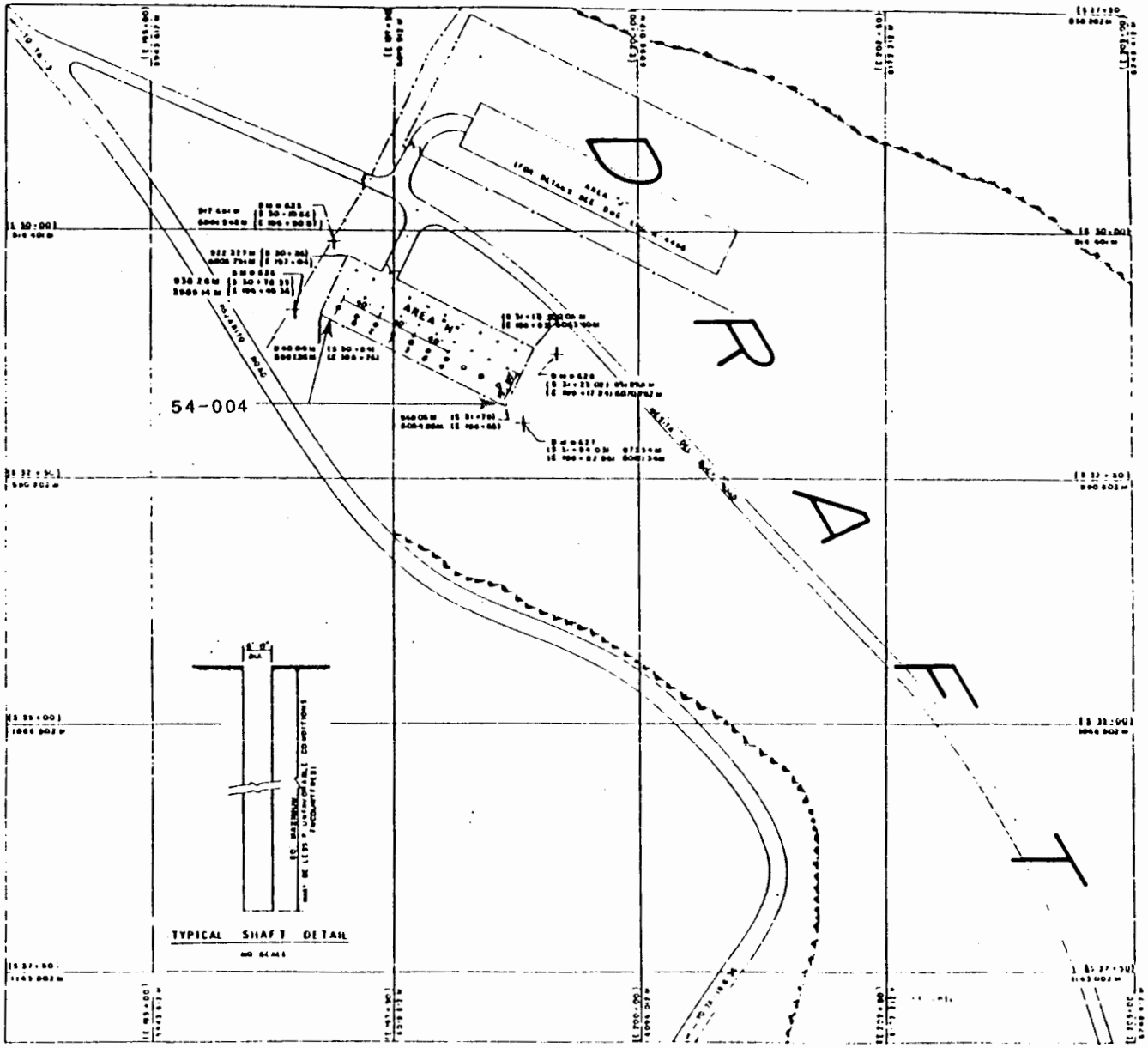
54-003: SWMU IS ENTIRE AREA SHOWN

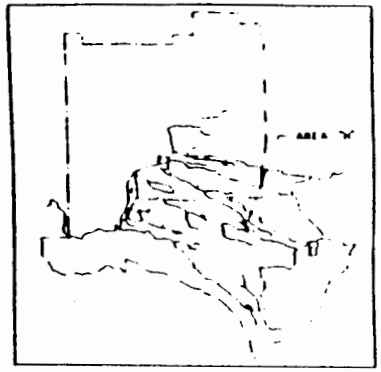
FIGURE 54-2

MATERIAL DISPOSAL AREA G,

TA-54

UNCLASSIFIED





LOCATION PLAN

EXPLANATION

54-001 SWMU LOCATION

NOTES

54-004: MDA-H ENCOMPASSES ENTIRE FENCED AREA

FIGURE 54-3

MATERIAL DISPOSAL AREA H, TA-54

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

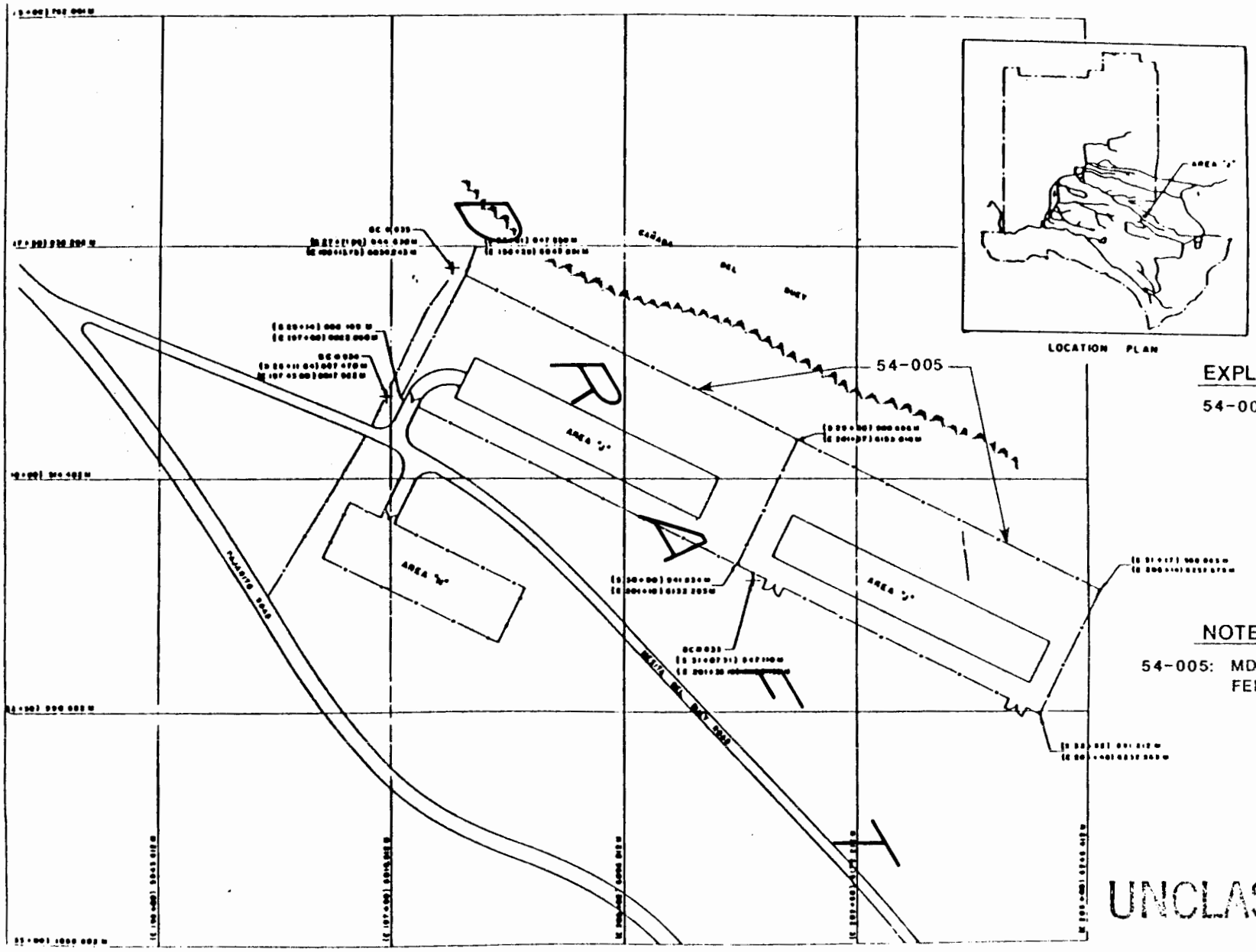
MATERIALS DISPOSAL AREAS

AREA "H"

Figure MDA-H Materials Disposal Area H

UNCLASSIFIED

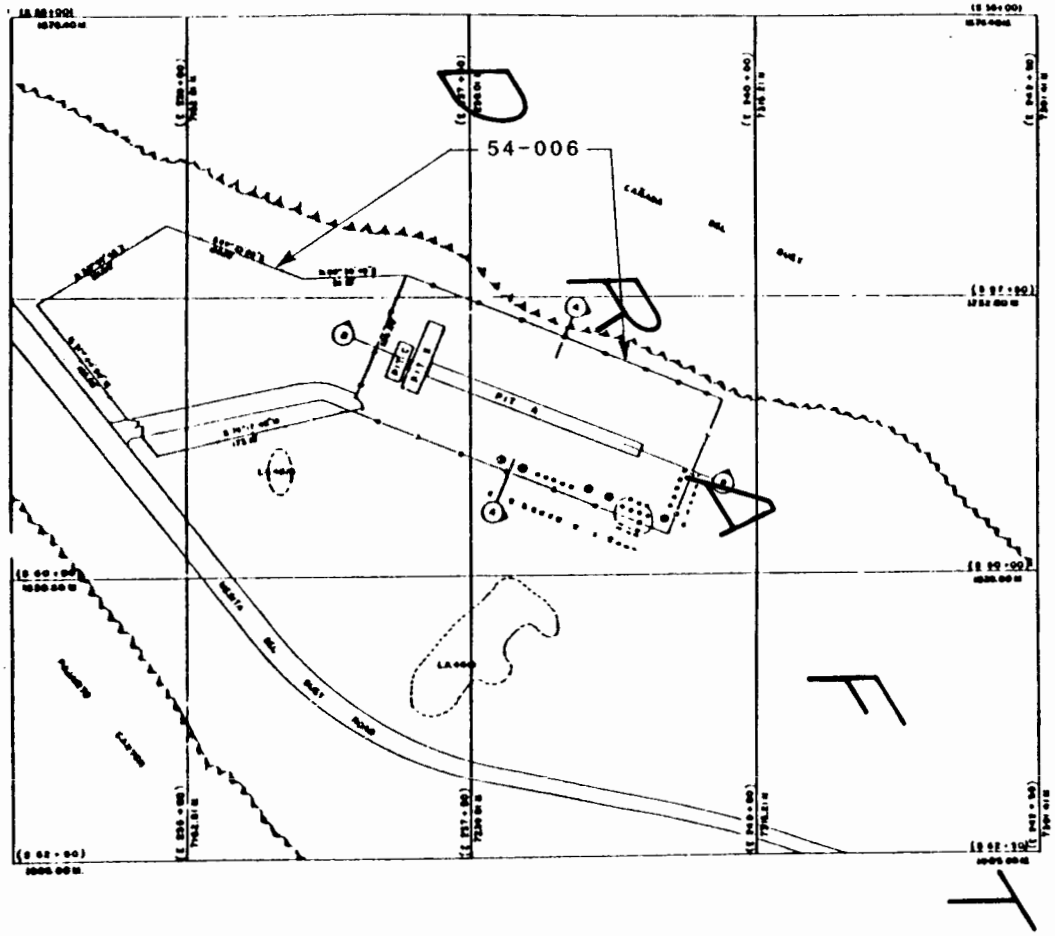
301215 02 01 A21

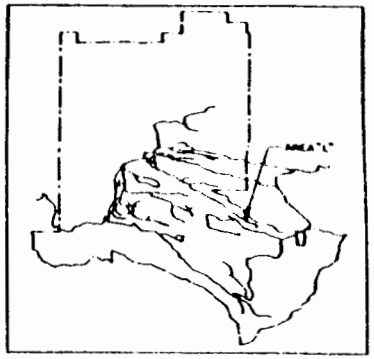


UNCLASSIFIED

FIGURE 54-4

MATERIAL DISPOSAL AREA J,
TA-54





LOCATION PLAN

EXPLANATION

54-001 SWMU LOCATION

NOTES

54-006: MDA-L ENCOMPASSES FENCED AREA

UNCLASSIFIED

FIGURE 54-5

MATERIAL DISPOSAL AREA L,

TA-54

TA-55

OPERATIONS AND ENVIRONMENTAL SETTING

Plutonium handling operations have been consolidated into Technical Area (TA) 55. Principal operations are fabrication of plutonium metal components and plutonium processing, including scrap reclamation and purification. Basic research on transuranic (TRU) materials also is conducted here.

TA-55 lies at elevations between 7,280 and 7,320 feet asl. It is located on a narrow mesa top formed between a branch of Mortandad Canyon on the north and Pajarito Canyon on the south. Canyon walls are steep or cliffs in this area. TA-55 lies on welded Bandelier Tuff. The area is in the Shrub-Grass-Forb overstory vegetation zone.

The soil at TA-55 belongs principally to the Carjo loam, a moderately deep (51 to 102 cm), well-drained soil typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr). At TA-55, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,050 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

DRAFT

55-001 CEMENT PLANT

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): OTHER: CEMENT PLANT
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1980 - PRESENT

UNIT INFORMATION

A cement silo, TA-55-53, is located near the southwest corner of TA-55-4 and near the cement plant (TA-55-4). The purpose of the cement plant is to place various types of mixed waste in cement. The cement paste is placed in 55 gallon drums and transported to TA-54 for storage. Eventually these drums may be emplaced in WIPP.

WASTE INFORMATION

The wastes used to make the cement slurry consist of TRU material containing: 1) acidic wastes from a filtration unit, 2) organic liquids, and 3) other liquids. The wastes placed in the cement slurry include 1) hydroxide cake, 2) non-recoverable incinerator ash, 3) plastic, 4) acidic filtrate salts, 5) pyrochemical salts, and 6) other TRU-containing particulate solids. Oils which have TRU material are placed in the cement through use of an emulsifier.

RELEASE INFORMATION

There have been no known hazardous releases from this unit.

DRAFT

55-002 MIXED WASTE CONTAINER STORAGE AREA

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: LATE 1970's-PRESENT

UNIT INFORMATION

There is a storage area for low-level and TRU-contaminated oils. Included are 55-gallon containers of oil-soaked vermiculite.

WASTE INFORMATION

The oil in the vermiculite contains <100 nanocuries per gram of TRU.

RELEASE INFORMATION

There have been no known hazardous releases from this unit.

DRAFT

55-003 CONTAINMENT AREA

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): OTHER: CONTAINMENT AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1980's - PRESENT

UNIT INFORMATION

A nitric acid tank at TA-55 is surrounded by a bermed containment area. The containment area and tank are located south of Building 4.

WASTE INFORMATION

The containment area would store nitric acid if the tank leaked. The tank contains product.

RELEASE INFORMATION

There have been no known hazardous releases from the tank or the containment area.

DRAFT

55-004 EVAPORATOR

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): OTHER: EVAPORATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1980's

UNIT INFORMATION

Wastes from TA-55 are treated by a thermosyphon evaporator, located in Building TA-55-4, in batches of 600 liters. The waste liquids are distilled in the evaporator, and the liquid distillate goes to TA-50 for pretreatment. The bottoms go to cooling trays after which they are subjected to a filtration process. In the near future they will be fixed in cement (see 55-001). The filtered liquids go to the TA-55 cement plant. The solids are stored at TA-54 at present. The cooling water circulates in an enclosed loop unit. Should contamination of the cooling water occur, the water is treated in the evaporator.

WASTE INFORMATION

Wastes entering the evaporator are all acidic nitrate wastes generated at TA-55. After the distillation process, the distillate wastes are composed primarily of nitric acid (approximately 575 liters of the original 600 liters). The solids from the nitrate salt bottoms filtration process are above 100 nanocuries per gram TRU content.

RELEASE INFORMATION

Off-gases are released through a HEPA filtration system (see Appendix B).

DRAFT

55-005 FILTRATION UNIT

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): OTHER: FILTER
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST. 1979 - PRESENT

UNIT INFORMATION

Filtration units located in TA-55-4 treat caustic waste containing TRU material and acidic liquids from the evaporator (see 55-004). After the filtration process, the filtered caustic liquids go to TA-50 for treatment. The solids removed during filtration are usually subjected to a recovery process. If the TRU content is low, the solids are taken to the TA-55 cement plant (see 55-001). The filtration system is a closed loop system wherein all residuals are handled by other treatment units.

WASTE INFORMATION

The treated wastes consist of caustic wastes that contain TRU material and acidic bottoms from the evaporator (see 55-004).

RELEASE INFORMATION

There have been no known hazardous releases from this unit.

DRAFT

55-006 GLASS BREAKER

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): OTHER: GLASS BREAKER
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: EST.1980's - PRESENT

UNIT INFORMATION

A breaker is used to break glassware and any other glass which has been contaminated with mixed waste. The broken glass is placed in containers for suitable disposal.

WASTE INFORMATION

The waste is broken glass which may be contaminated with mixed waste.

RELEASE INFORMATION

There have been no known hazardous releases from the glass breaker.

DRAFT

55-007 INCINERATOR

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A small incinerator in TA-55-4 is used to burn small quantities of combustible wastes. After incineration, the ashes are sent through a recovery process to recover the radionuclides if the TRU content is high. If the content is low, the ashes are sent to the cement plant (see 55-001). Incinerator gases are scrubbed before passing into the glovebox ventilation system. The scrubber solution goes to TA-50 for treatment.

WASTE INFORMATION

The combustible wastes contain chemicals such as nitric acid and small quantities of radionuclides.

RELEASE INFORMATION

Gases are treated to remove radionuclides before they are discharged.

DRAFT

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: LATE 1970's-PRESENT

UNIT INFORMATION

Sumps, tanks, and pumps in TA-55-4 include:

UNIT TYPE	# OF UNITS	DIMENSIONS	USE
sump/pump	6	3' x 3' x 3' deep	receive spills, mop water
condensate tank pump	4	8" dia x 4' long	receive condensate from cooling coils
blowdown tank	8	8" dia x 4' long	receive condensate from cooling coils

WASTE INFORMATION

The liquids discharged to these units may contain a small amount of mixed waste constituents.

RELEASE INFORMATION

There have been no known hazardous releases from these units.

DRAFT

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): UNDERGROUND TANK
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1982 - PRESENT

UNIT INFORMATION

Five underground storage tanks are present in TA-55, four active and one inactive. The integrity of the four active tanks was tested during a 1986 volumetric testing program. Two of the tanks were found to be leaking.

TANK NUMBER	SWMU NO	CAPACITY	CONSTRUCTION	DATE INSTALLED
TA-55-16	55-009(a)	550 gallons	steel	1975
TA-55-17	55-009(b)	3008 gallons	steel	1975

These tanks were still in place as of November, 1988. Exposure of the lines connecting to the tanks and the fill stem have not revealed leakage at TA-55-17. Retesting is planned to confirm the leakage because significant volume losses have not been observed.

WASTE INFORMATION

These tanks store diesel fuel.

RELEASE INFORMATION

There has been no confirmation of diesel releases to soil at this time.

DRAFT

55-010 SUMP

SUMMARY

LOCATION: TA-55
TYPE OF UNIT(s): SUMP
UNIT USE: STORAGE
OPERATIONAL STATUS: UNKNOWN
PERIOD OF USE: 1976 - ?

UNIT INFORMATION

TA-55-71 was a monitoring sump located northeast of TA-55-6. It was used to allow monitoring of TA-55 liquids prior to discharging them to the sewage treatment lagoons at TA-35. It is believed that this sump is no longer operational and may have been decommissioned. The sump is a concrete pit about 7' x 7' x 5'5" deep.

WASTE INFORMATION

The wastes were liquids believed to be free of significant levels of radionuclides, but which may have contained small quantities of chemicals and solvents.

RELEASE INFORMATION

The liquids were discharged to the TA-35 lagoons.

DRAFT

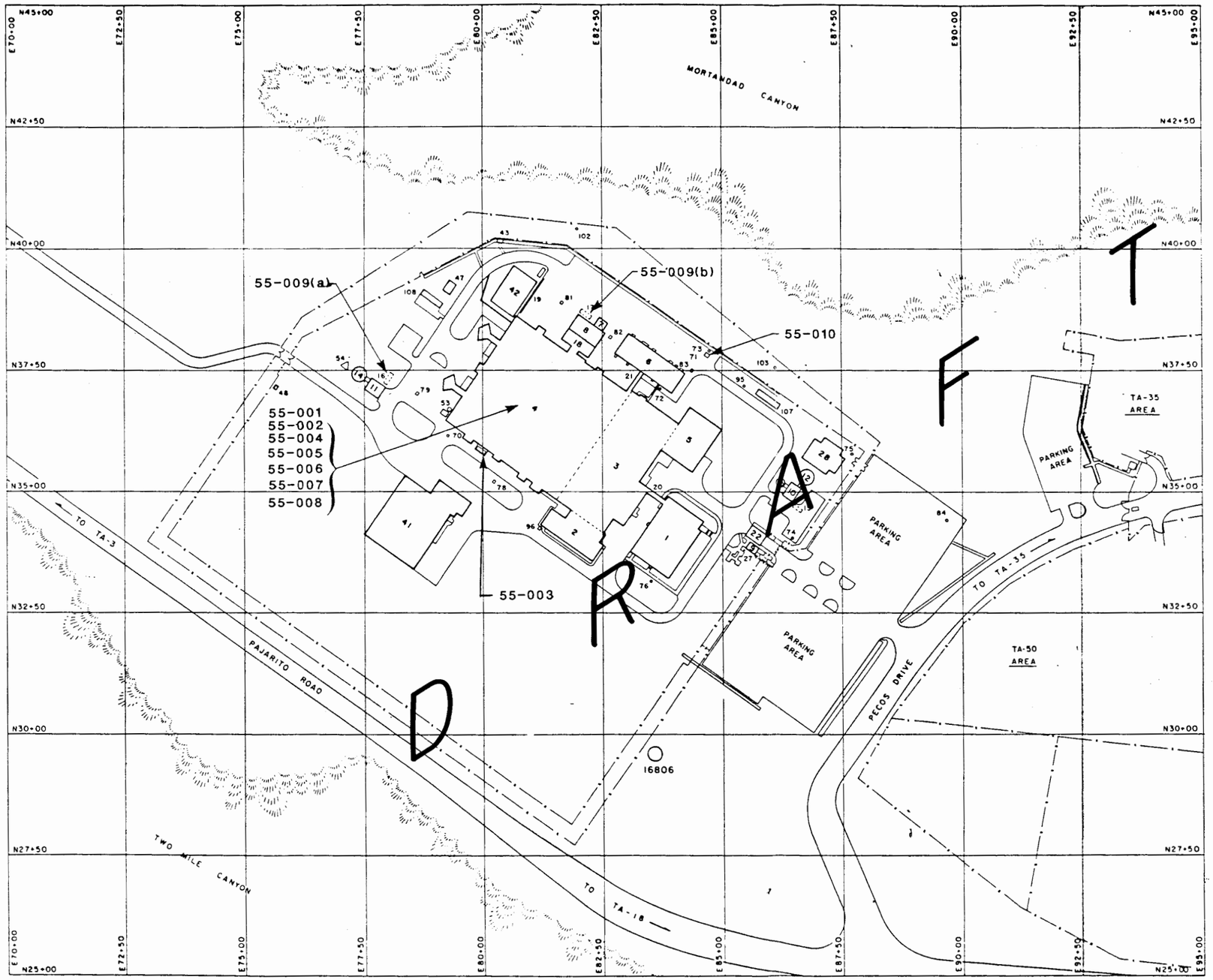
TA-55 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

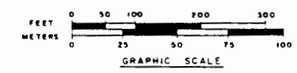
SWMU	FIGURE NUMBER
55-001	55-1
55-002	Not shown, location unknown
55-003	55-1
55-004	55-1
55-005	55-1
55-006	55-1
55-007	55-1
55-008	55-1
55-009(a)	55-1
55-009(b)	55-1
55-010	55-1

NOTE: Some structure locations contain more than one SWMU.

DRAFT

301215 02 01 B155





UNCLASSIFIED

LEGEND-ARCHY SITE STATUS

△ EXCAVATED

▲ PARTILLY EXCAVATED

○ UNECAVATED

EXPLANATION

55-001 SWMU LOCATION

FIGURE 55-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-55

REV	DATE	REVISION	BY	CKD	APP
4	7-21-86	REDRAWN & REVISED TO STATUS OF 7-17-86	NB		

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-55 PLUTONIUM PROCESSING FACILITY

SEC CLASSIFICATION
CLASS
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED

DRAWN N BYERS
CHECKED
DATE 7-21-86
SHEET NO 2 of 2
DRAWING NO ENG - R 5132

301215 02 01 B171

DRAFT

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-55-1	PF-1	ADMINISTRATION BUILDING		N35+00 E85+00
TA-55-2	PF-2	SUPPORT OFFICE BUILDING		N35+00 E82+50
TA-55-3	PF-3	SUPPORT BUILDING		N35+00 E82+50
TA-55-4	PF-4	PLUTONIUM BUILDING		N37+50 E80+00
TA-55-5	PF-5	WAREHOUSE		N35+00 E85+00
TA-55-6	PF-6	UTILITY BUILDING		N37+50 E82+50
TA-55-7	PF-7	CALCIUM BUILDING		N37+50 E82+50
TA-55-8	PF-8	GENERATOR BLDG		N37+50 E82+50
TA-55-9	PF-9	GUARD STATION		N35+00 E85+00
TA-55-10	PF-10	PUMP HOUSE	EAST	N35+00 E87+50
TA-55-11	PF-11	PUMP HOUSE	WEST	N37+50 E77+50
TA-55-12	PF-12	WATER TANK	FIRE, EAST	N35+00 E87+50
TA-55-13	PF-13	WATER TANK	POTABLE	N35+00 E85+00
TA-55-14	PF-14	WATER TANK	FIRE, WEST	N37+50 E77+50
TA-55-15	PF-15	DIESEL TANK	EAST PUMP HOUSE	N35+00 E87+50
TA-55-16	PF-16	DIESEL TANK	WEST PUMP HOUSE	N37+50 E77+50
TA-55-17	PF-17	DIESEL TANK	GENERATOR BLDG	N37+50 E82+50
TA-55-18	PF-18	CANOPY		N37+50 E82+50
TA-55-19	PF-19	COMPRESSED GAS TRAILER STATION		N40+00 E82+50
TA-55-20	PF-20	COVERED PASSAGEWAY		N35+00 E82+50
TA-55-21	PF-21	[illegible]OOR		N37+50 E82+50
TA-55-22	PF-22	VEHICLE MONITORING STATION		N35+00 E85+00
TA-55-27	PF-27	FLAG POLE		N32+50 E87+50
TA-55-28	PF-28	NUCLEAR MATERIALS BLDG		N35+00 E87+50
TA-55-70	PF-70	MANHOLE	ELECTRIC	N35+00 E80+00
TA-55-71	PF-71	MANHOLE	MONITORING	N37+50 E85+00
TA-55-72	PF-72	MANHOLE	SANITARY	N37+50 E85+00
TA-55-73	PF-73	MANHOLE	SANITARY	N37+50 E85+00
TA-55-74	PF-74	MANHOLE	SANITARY	N35+00 E87+50
TA-55-75	PF-75	MANHOLE	SANITARY	N35+00 E87+50
TA-55-76	PF-76	MANHOLE	TELEPHONE	N32+50 E82+50
TA-55-77	PF-77	MANHOLE	TELEPHONE	N32+50 E82+50
TA-55-78	PF-78	CATCH BASIN		N35+00 E80+00
TA-55-79	PF-79	CATCH BASIN		N37+50 E77+50
TA-55-80	PF-80	CATCH BASIN		N40+00 E80+00
TA-55-81	PF-81	CATCH BASIN		N40+00 E82+50
TA-55-82	PF-82	CATCH BASIN		N37+50 E82+50
TA-55-83	PF-83	CATCH BASIN		N37+50 E85+00
TA-55-84	PF-84	MANHOLE	SANITARY	N35+00 E90+00
TA-55-90	PF-90		REMOVED 1976	
TA-55-91	PF-91		REMOVED 1976	
TA-55-92	PF-92		REMOVED 1976	
TA-55-93	PF-93		REMOVED 1976	
TA-55-94	PF-94		REMOVED 1976	
TA-55-95	PF-95	MANHOLE	ELECTRIC	N37+50 E85+00
TA-55-96	PF-96	CATCH BASIN		N35+00 E90+00
TA-55-97	PF-97	CATCH BASIN	REMOVED 1980	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-0-21	JLR-21	RADIO COMMUNICATIONS STA		N32+50 E92+50
TA-0-902	JLR-902	MANHOLE	ELECTRICAL	N35+00 [illegible]
TA-0-904	JLR-904	MANHOLE	ELECTRICAL	N35+00 E[illegible]
TA-0-1000	JLR-1000	MANHOLE	WATER	N30+00 E87+50
TA-0-1001	JLR-1001	MANHOLE	GAS	N30+00 E87+50

UNCLASSIFIED

FIGURE 55-2
TA-55 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
2	9-26-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 7-27-83	HS		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-55 PLUTONIUM PROCESSING FACILITY

SEC. CLASSIFICATION — CLASS: U — REVIEWER — DATE

SUBMITTED — RECOMMENDED — APPROVED

DRAWN — CHECKED — DATE 9-26-83 — SHEET NO. 1 of 2 — DRAWING NO. ENG-R 5132

TA-56

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 56, known as the Subterrene Basalt Site, is located in Ancho Canyon and was used in the early 1970s in Ancho Canyon and was used in the early 1970s for a program that attempted to substitute melting for drilling to penetrate rock, with electricity used as the heat source in the experimental tests. In a field test, basalt was melted in Ancho Canyon. There are no current operations at this site. There are no solid waste management units in this Technical Area.

DRAFT

TA-57

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 57 is the site of Hot Dry Rock geothermal energy research. It lies on the the western flank of the Valles Caldera, about 20 air miles west of Los Alamos. Fluids have been produced at temperatures suitable to generate electricity. Mud pits used in drilling and experimental operations are removed when no longer required.

DRAFT

57-001 DECOMMISSIONED DRILLING MUD PITS

SUMMARY

LOCATION: TA-57
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1970's - 1980's

UNIT INFORMATION

Three decommissioned mud pits/ponds were used to support drilling and experimental activities for the hot dry rock project. 1) The earliest pit [57-001(a)] was a pit for drilling mud located in Barley Canyon. It was in use during the 1970's. When drilling activities were moved to Fenton Hill, this pit was backfilled and reseeded. 2) When Fenton Hill Site, TA-57, began operation, a pond designated GT-2 [57-001(b)] was constructed. This pond was triangular in shape, approximately 150' on each side and 12' deep. It was in use for a number of years. In 1988, the sludge from this pond was removed, taken to a landfill, and the pond was backfilled. 3) After construction of GT-2, another pond [57-001(c)] was constructed to the north. This was a fairly small pond and in approximately 1978 the bottom sludge was removed to a landfill and this pond was also backfilled. Trailer TA-57-26 is now located on top of this area. The Fenton Hill ponds were used both as drilling mud ponds and as holding ponds during circulation experiments.

WASTE INFORMATION

Materials stored in the drilling pits and ponds consisted of drilling mud, cuttings and, for the Fenton Hill ponds, any minerals which precipitated during circulation experiments.

RELEASE INFORMATION

There is no evidence that a hazardous release occurred from the mud storage ponds.

57-002 DISPOSAL AREAS

SUMMARY

LOCATION: TA-57
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1975 - PRESENT

UNIT INFORMATION

Drilling mud and cuttings from the old Fenton Hill ponds and EE-1 drilling mud pond (see 57-001) have been disposed of in a former gravel pit located on Forest Service property, about 5 miles west of TA-57.

WASTE INFORMATION

The waste consists of sludge removed from the TA-57 mud ponds.

RELEASE INFORMATION

No known releases have occured from this unit.

DRAFT

57-003 SOLVENT STORAGE

SUMMARY

LOCATION: TA-57
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

A storage area is used for temporary storage of solvents and waste oil at TA-57. It is located outside the Fenton Hill shed where the containers are picked up and transported off-site.

WASTE INFORMATION

The wastes consist of spent solvents and waste oil.

RELEASE INFORMATION

There have been no known releases.

DRAFT

57-004 ACTIVE DRILLING MUD PIT

SUMMARY

LOCATION: TA-57
TYPE OF UNIT(s): SURFACE IMPOUNDMENT
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1978 - PRESENT

UNIT INFORMATION

There is an active drilling mud circulation pit at TA-57 that is used to store wastes from deep drilling operations and experiments. The pit is approximately 300' x 75' and several feet deep. The drilling muds are removed as necessary and transported to a landfill (see 57-002). The pit is designated EE-1.

WASTE INFORMATION

Wastes stored in the pond include drilling mud, cuttings, and precipitates from circulation experiments.

RELEASE INFORMATION

The mud pit has a NPDES-permited outfall (see Appendix A).

DRAFT

57-005 MUD FILTER

SUMMARY

LOCATION: TA-57
TYPE OF UNIT(s): FILTER
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1980's - PRESENT

UNIT INFORMATION

Liquids from the EE-1 drilling mud pond are passed through a filter system before they are discharged into a 5 million gallon holding pond. The filter is periodically backflushed to remove the solids. The solids are placed in the EE-1 pond.

WASTE INFORMATION

The wastes consist of suspended solids in the liquid.

RELEASE INFORMATION

There have been no known releases of hazardous constituents.

DRAFT

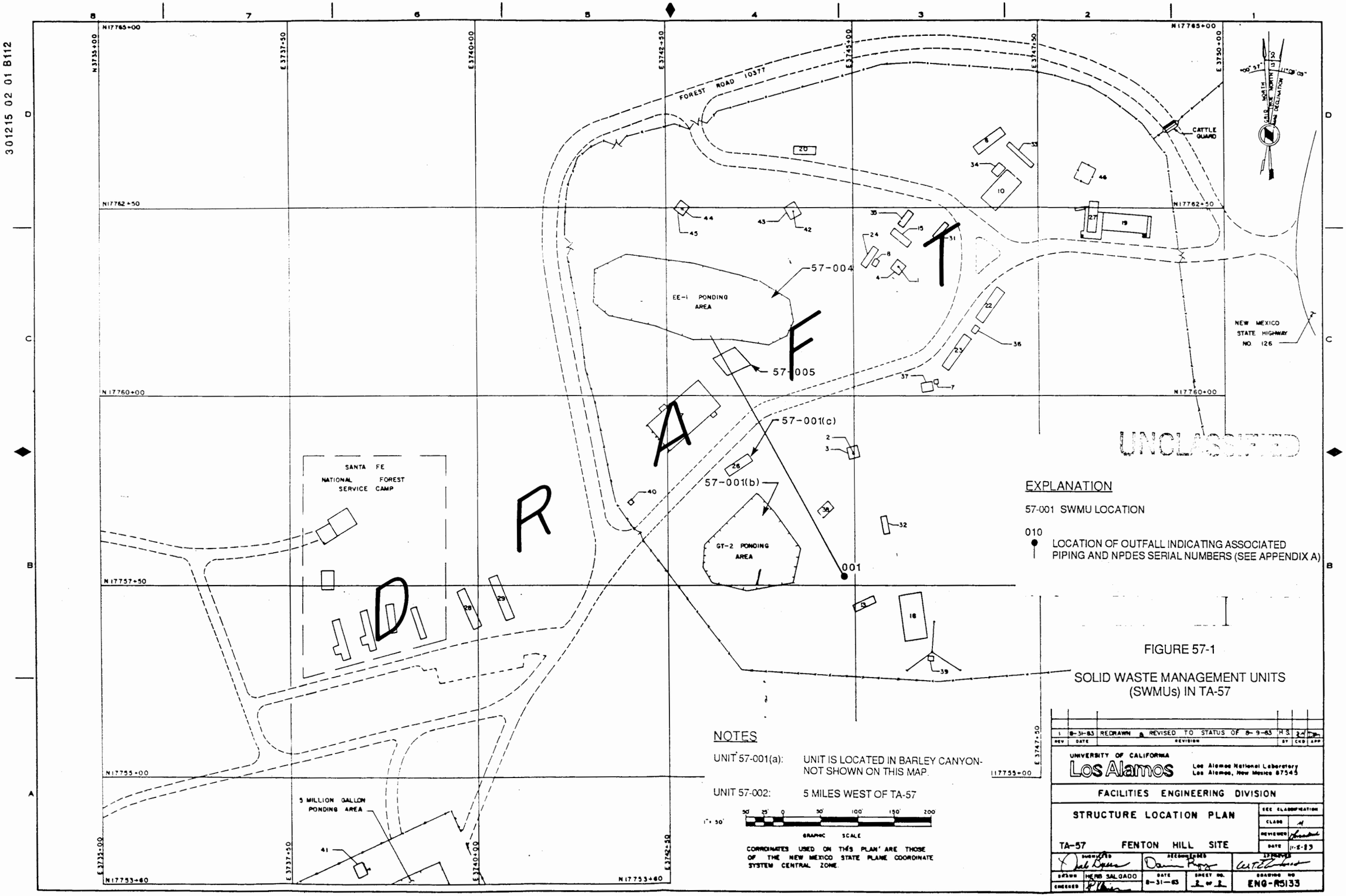
TA-57 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
57-001(a)	Not shown
57-001(b)	57-1
57-001(c)	57-1
57-002	Not shown
57-003	Not shown
57-004	57-1
57-005	57-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B112



EXPLANATION

57-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBERS (SEE APPENDIX A)

NOTES

UNIT 57-001(a): UNIT IS LOCATED IN BARLEY CANYON- NOT SHOWN ON THIS MAP.

UNIT 57-002: 5 MILES WEST OF TA-57

1" = 50' 50' 25' 0 50' 100' 150' 200'

GRAPHIC SCALE

COORDINATES USED ON THIS PLAN ARE THOSE OF THE NEW MEXICO STATE PLANE COORDINATE SYSTEM CENTRAL ZONE.

FIGURE 57-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-57

REV	DATE	REVISION	BY	CKD	APP
1	8-31-83	REDRAWN & REVISED TO STATUS OF 8-9-83	H.S.		

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FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-57 FENTON HILL SITE

SEE CLASSIFICATION
CLASS U
REVIEWED
DATE 11-2-83

SUBMITTED
RECOMMENDED
APPROVED

DRAWN HERB SALGADO
DATE 8-31-83
SHEET NO. 2 of 2
DRAWING NO ENG-R5133

301215 02 01 B47

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-57-1	FHS-1	BORE HOLE EE-1	INSIDE FHS-4	N1776250 E374500
TA-57-2	FHS-2	BORE HOLE GT-2	INSIDE FHS-3	N1776000 E374500
TA-57-3	FHS-3	WORKOVER TOWER		N1776000 E374500
TA-57-4	FHS-4	WORKOVER TOWER		N1776250 E374500
TA-57-5	FHS-5	TANK, PROPANE	REMOVED 1979	
TA-57-6	FHS-6	TANK, WATER		N1776250 E374750
TA-57-7	FHS-7	WATER WELL BLDG.		N1776000 E374750
TA-57-8	FHS-8	PORTABLE PUMPHOUSE, WTR		N1776250 E374500
TA-57-9	FHS-9	SURGE TANKS	REMOED 1979	
TA-57-10	FHS-10	HEAT EXCHANGER		N1776250 E374750
TA-57-11	FHS-11	TANK, WATER	REMOVED 1979	
TA-57-12	FHS-12	STORAGE TANK	REMOVED 1979	
TA-57-13	FHS-13	STORAGE SHED		N1775750 E374500
TA-57-14	FHS-14	STORAGE SHED	DESTROYED 1982	
TA-57-15	FHS-15	STORAGE SHED		N1776250 E374500
TA-57-16	FHS-16	STORAGE SHED	REMOVED 1980	
TA-57-17	FHS-17	SHOP & OFFICE BLDG.		N1776000 E374250
TA-57-18	FHS-18	WAREHOUSE		N1775750 E374250
TA-57-19	FHS-19	CAT COMPUTER BLDG.	FORMERLY TA-0-732	N1776250 E375000
TA-57-20	FHS-20	TRAILER, OFICE	FORMERLY TA-0-441	N1776250 E374500
TA-57-22	FHS-22	TRAILER, CONTROL	FORMERLY TA-0-684	N1776000 E374750
TA-57-23	FHS-23	TRAILER, CHEMICAL	FORMERLY TA-0-690	N1776000 E374750
TA-57-24	FHS-24	TRAILER, HYDRO	FORMERLY TA-0-691	N1776250 E374500
TA-57-25	FHS-25	TRAILER, SHOP	FORMERLY TA-0-692	NOT SHOWN
TA-57-26	FHS-26	TRAILER, OFFICE	FORMERLY TA-0-730	N1776000 E374250
TA-57-27	FHS-27	TRAILER, OFFICE	FORMERLY TA-0-731	N1776200 E374750
TA-57-28	FHS-28	TRAILER, SLEEPER	FORMERLY TA-0-732	N1775750 E374000
TA-57-29	FHS-29	TRAILER, SLEEPER	FORMERLY TA-0-733	N1775750 E374000
TA-57-31	FHS-31	TRAILER, OFF-SHORE RIG	FORMERLY TA-0-686	N1776250 E374500
TA-57-32	FHS-32	TRAILER, OFF-SHORE RIG	FORMERLY TA-0-687	N1775750 E374500
TA-57-33	FHS-33	TURBINE GENERATOR		N1776250 E374750
TA-57-34	FHS-34	SUPERCHARGERS		N1776250 E374750
TA-57-35	FHS-35	STORAGE SHED		N1776250 E374500
TA-57-36	FHS-36	STORAGE SHED		N1776000 E374750
TA-57-37	FHS-37	WATER WELL PUMPHOUSE		N1776000 E374500
TA-57-38	FHS-38	FIRE BARN		N1775750 E374500
TA-57-39	FHS-39	METEOROLOGICAL BLDG.		N1775750 E374500
TA-57-40	FHS-40	SEWAGE LIFT STATION		N1775750 E374250
TA-57-41	FHS-41	PUMPHOUSE		N1775500 E374750
TA-57-42	FHS-42	BORE HOLE EE-2	INSIDE FHS-43	N1776250 E374500
TA-57-43	FHS-43	WORKOVER TOWER		N1776250 E374500
TA-57-44	FHS-44	BORE HOLE EE-3	INSIDE FHS-45	N1776250 E374250
TA-57-45	FHS-45	WORKOVER TOWER		N1776250 E374250
TA-57-46	FHS-46	TRANSFORMER STATION		N1776250 E374750

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

UNCLASSIFIED

FIGURE 57-3

TA-57 STRUCTURE LOCATION INDEX

REV.	DATE	REVISION	BY	CHK.	APP.
26	8-31-83	REVISED TITLE BLOCK & DWG TO STATUS OF 8-9-83	RDS		

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INDEX SHEET
STRUCTURE LOCATION PLAN

TA-57 FENTON HILL SITE

SEC. CLASSIFICATION: CLASS. U; REVIEWER; DATE

SUBMITTED | RECOMMENDED | APPROVED

DRAWN RDS | CHECKED | DATE 8-31-83 | SHEET NO. 1 OF 2 | DRAWING NO. ENG-R5133

301215 02 01 148

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-36-1	KAPPA-1	LABORATORY & OFFICE BLDG		S 55+00 E175+00
TA-36-2	KAPPA-2		UNASSIGNED	
TA-36-3	KAPPA-3	CONTROL BUILDING		S 75+00 E145+00
TA-36-4	KAPPA-4	PREPARATION BUILDING		S 75+00 E155+00
TA-36-5	KAPPA-5	PREPARATION BUILDING		S 85+00 E155+00
TA-36-6	KAPPA-6	CONTROL BUILDING		S 85+00 E155+00
TA-36-7	KAPPA-7	PREPARATION BUILDING		S 95+00 E155+00
TA-36-8	KAPPA-8	CONTROL BUILDING		S 95+00 E155+00
TA-36-9	KAPPA-9	MAGAZINE		S 85+00 E185+00
TA-36-10	KAPPA-10	MAGAZINE		S 85+00 E185+00
TA-36-11	KAPPA-11	PREPARATION BUILDING		S 85+00 E225+00
TA-36-12	KAPPA-12	CONTROL BUILDING		S 95+00 E235+00
TA-36-13	KAPPA-13	INSTRUMENT CHAMBER		S 95+00 E235+00
TA-36-14	KAPPA-14	FIRING BOX, DOUBLE		S 95+00 E155+00
TA-36-15	KAPPA-15	FIRING BOX, DOUBLE		S 85+00 E155+00
TA-36-16	KAPPA-16		REMOVED 1965	
TA-36-17	KAPPA-17	TANK, SEPTIC		S 55+00 E175+00
TA-36-18	KAPPA-18	TANK, WATER		S 55+00 E175+00
TA-36-19	KAPPA-19	INSTRUMENT CHAMBER		S 95+00 E155+00
TA-36-20	KAPPA-20	INSTRUMENT CHAMBER		S 95+00 E155+00
TA-36-21	KAPPA-21	FIRING BOX, DOUBLE		S 75+00 E235+00
TA-36-22	KAPPA-22	GUARD STATION	STATION 1 AND	S 55+00 E175+00
TA-36-23	KAPPA-23	ANTENNA TOWER		S 55+00 E175+00
TA-36-24	KAPPA-24	TRANSFORMER STATION		S 55+00 E175+00
TA-36-25	KAPPA-25	TRANSFORMER STATION		S 75+00 E145+00
TA-36-26	KAPPA-26	TRANSFORMER STATION		S 95+00 E155+00
TA-36-27	KAPPA-27	TRANSFORMER STATION		S 95+00 E155+00
TA-36-28	KAPPA-28	TRANSFORMER STATION		S 95+00 E235+00
TA-36-29	KAPPA-29	WIGWAG		S 95+00 E235+00
TA-36-30	KAPPA-30	WIGWAG		S 95+00 E155+00
TA-36-31	KAPPA-31	WIGWAG		S 95+00 E215+00
TA-36-32	KAPPA-32	SIREN PLATFORM		S 95+00 E225+00
TA-36-33	KAPPA-33	RETAINING WALL		S 85+00 E155+00
TA-36-34	KAPPA-34	MANHOLE, WATER		S 55+00 E175+00
TA-36-35	KAPPA-35	MANHOLE, STORM DRAINAGE		S 55+00 E175+00
TA-36-36	KAPPA-36	TEST STANCHION HOIST		S 95+00 E235+00
TA-36-37	KAPPA-37	WIGWAG		S 75+00 E155+00
TA-36-38	KAPPA-38	MANHOLE, SANITARY		S 55+00 E175+00
TA-36-39	KAPPA-39	RETAINING WALL		S 55+00 E175+00
TA-36-40	KAPPA-40	RETAINING WALL		S 95+00 E155+00
TA-36-41	KAPPA-41	FIRING BOX, SINGLE		S 95+00 E235+00
TA-36-42	KAPPA-42	FIRING BOX, SINGLE		S 85+00 E155+00
TA-36-43	KAPPA-43	FIRING BOX, SINGLE		S 95+00 E155+00
TA-36-44	KAPPA-44	STORAGE BUILDING	ABANDONED 1963	S 75+00 E215+00
TA-36-45	KAPPA-45	STORAGE BUILDING	ABANDONED 1963	S 75+00 E215+00
TA-36-46	KAPPA-46	STORAGE BUILDING		S 55+00 E175+00
TA-36-47	KAPPA-47	STORAGE BUILDING		S 55+00 E165+00
TA-36-48	KAPPA-48	CONTROLLED ENVIRONMENT BLDG		S 55+00 E165+00
TA-36-49	KAPPA-49	SUMP PIT		S 55+00 E165+00
TA-36-50	KAPPA-50	TRANSFORMER STATION		S 55+00 E165+00
TA-36-51	KAPPA-51	TRANSFORMER STATION		S 85+00 E185+00
TA-36-52	KAPPA-52	METERING STATION		S 75+00 E145+00
TA-36-53	KAPPA-53	STORAGE SHED		S 55+00 E175+00
TA-36-54	KAPPA-54	TRACTOR SHED		S 55+00 E165+00
TA-36-55	KAPPA-55	CONTROL BLDG.	FORMERLY TA-15-31	S 55+00 E115+00
TA-36-56	KAPPA-56	GUN EMPLACEMENT	FORMERLY TA-15-207	S 55+00 E115+00
TA-36-57	KAPPA-57	TRAILER, OFFICE	FORMERLY TA-0-304	S 55+00 E175+00
TA-36-58	KAPPA-58	TRAILER, OFFICE	FORMERLY TA-0-298	S 55+00 E175+00
TA-36-59	KAPPA-59	TRANSFORMER STATION	FORMERLY [illegible]	S 55+00 E115+00
TA-36-60	KAPPA-60	TANK, WATER U.G.	FORMERLY TA-15-[illegible]	S 55+00 E115+00
TA-36-61	KAPPA-61	TANK, SEPTIC	FORMERLY TA-15-[illegible]	S 55+00 E115+00
TA-36-62	KAPPA-62	MANHOLE, ELECTRICAL	FORMERLY TA-15-[illegible]	S 55+00 E115+00
TA-36-63	KAPPA-63	MANHOLE, ELECTRICAL	FORMERLY TA-15-[illegible]5	S 55+00 E115+00
TA-36-64	KAPPA-64	MANHOLE, ELECTRICAL	FORMERLY TA-15-[illegible]67	S 55+00 E115+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 36-4

TA-36 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
15	9-7-83	REVISED TITLE BLOCK & DWG TO STATUS OF 9-8-83 HS			

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INDEX SHEET
STRUCTURE LOCATION PLAN
TA-36 KAPPA SITE

SEC. CLASSIFICATION
CLASS. U
REVIEWER
DATE 4-25-83

SUBMITTED | RECOMMENDED | APPROVED

DRAWN | DATE 9-7-83 | SHEET NO. | DRAWING NO. ENG-36110

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TA-37

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 37 consists of twenty-four magazines used to store high explosives. These magazines are not opened at TA-37 except for periodic inspections.

TA-37 lies at elevations between 7,220 and 7,320 feet asl. It is located on a narrow mesa formed between Water Canyon on the south and a small unnamed branch of Water Canyon on the north. TA-37 lies on welded Bandelier Tuff. The area is in the Shrub-Grass-Forb overstory vegetation zone. Two soil series are present at TA-37. The Tocal very fine sandy loam series are shallow to very shallow (20 to 50 cm), well-drained soils that form on tuff on gentle to moderate slopes. The permeability is moderately slow (0.5 to 1.6 cm/h), and the available water-holding capacity is low. Runoff is medium (0.14 to 0.51 cm, measured as the soil loss from a two-year, 30-minute precipitation event on bare soil), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr, the potential soil loss from an unprotected surface). The Frijoles very fine sandy loam is a deep (152 cm), well-drained soils with moderately slow permeability (0.5 to 1.6 cm/h) in the upper 45 cm and very rapid (>50 cm/h) below. Runoff is slow to medium (0.14 to 0.51 cm) and the erosion hazard is moderate (0.65 to 1.8 cm/yr).

At TA-37, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,100 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

37-001 SEPTIC SYSTEM

SUMMARY

LOCATION: TA-37
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT
OPERATIONAL STATUS: INACTIVE
PERIOD OF USE: ?

UNIT INFORMATION

This septic tank, TA-37-2B, served Building TA-37-1, which is an office building. The tank is currently inactive.

WASTE INFORMATION

The septic tank most likely received only sanitary waste.

RELEASE INFORMATION

Because it is not known whether this tank discharged or was pumped, there are no known releases from this unit.

DRAFT

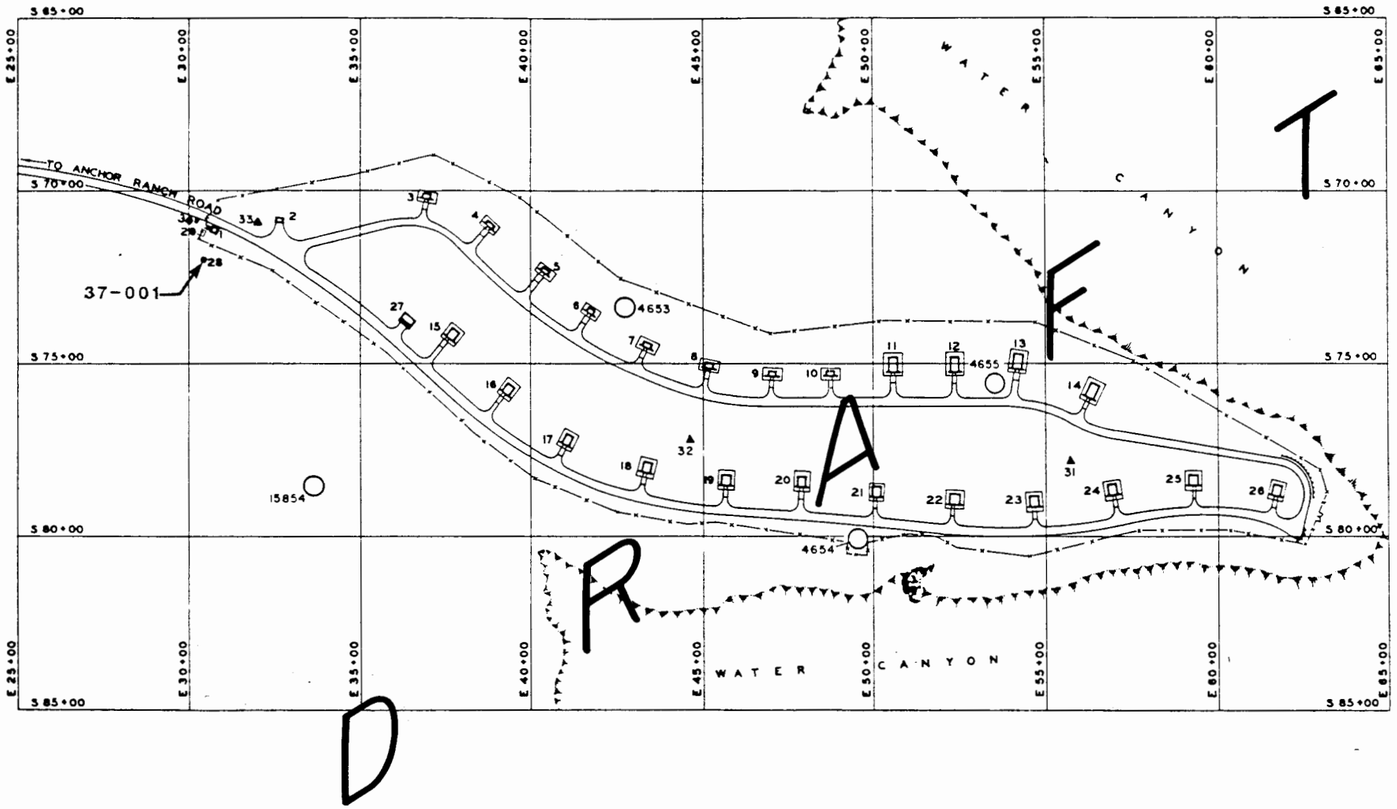
TA-37 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
37-001	37-1

NOTE: Some structure locations may contain more than one SWMU.

DRAFT

301215 02 01 B74



EXPLANATION

37-001 SWMU LOCATION

NOTES

NO NPDES OUTFALLS.

LEGEND: ARCHY SITE STATUS

△ EXCAVATED

○ UNEXCAVATED

FIGURE 37-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-37

1" = 200

GRAPHIC SCALE

TRUE NORTH
ZERO NORTH
MAG DECLINATION

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REV	DATE	REVISION	BY	CED	APP
16	8-12-83	REVISED TITLE BLOCK & DWG TO STATUS OF SHOWN	HS		

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STRUCTURE LOCATION PLAN
TA-37 MAGAZINE AREA - C

SEC CLASSIFICATION: CLASS U; REVIEWED; DATE 9-23-83

SUBMITTED | RECOMMENDED | APPROVED

DRAWN | CHECKED | DATE 8-12-83 | SHEET NO. 2 OF 2 | DRAWING NO. ENG-R5119

301215 02 01 B32

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA - 37 - 1	MAC - 1	OFFICE BUILDING		S 70+00 E 30+00
TA - 37 - 2	MAC - 2	TRIM BLDG		S 70+00 E 35+00
TA - 37 - 3	MAC - 3	MAGAZINE	FORMERLY 301	S 70+00 E 35+00
TA - 37 - 4	MAC - 4	MAGAZINE	FORMERLY 302	S 70+00 E 40+00
TA - 37 - 5	MAC - 5	MAGAZINE	FORMERLY 303	S 70+00 E 40+00
TA - 37 - 6	MAC - 6	MAGAZINE	FORMERLY 304	S 75+00 E 40+00
TA - 37 - 7	MAC - 7	MAGAZINE	FORMERLY 305	S 75+00 E 45+00
TA - 37 - 8	MAC - 8	MAGAZINE	FORMERLY 306	S 75+00 E 45+00
TA - 37 - 9	MAC - 9	MAGAZINE	FORMERLY 307	S 75+00 E 45+00
TA - 37 - 10	MAC - 10	MAGAZINE	FORMERLY 308	S 75+00 E 50+00
TA - 37 - 11	MAC - 11	MAGAZINE	FORMERLY 701	S 75+00 E 50+00
TA - 37 - 12	MAC - 12	MAGAZINE	FORMERLY 702	S 75+00 E 50+00
TA - 37 - 13	MAC - 13	MAGAZINE	FORMERLY 703	S 75+00 E 55+00
TA - 37 - 14	MAC - 14	MAGAZINE	FORMERLY 704	S 75+00 E 55+00
TA - 37 - 15	MAC - 15	MAGAZINE	FORMERLY 501	S 75+00 E 35+00
TA - 37 - 16	MAC - 16	MAGAZINE	FORMERLY 502	S 75+00 E 40+00
TA - 37 - 17	MAC - 17	MAGAZINE	FORMERLY 503	S 75+00 E 40+00
TA - 37 - 18	MAC - 18	MAGAZINE	FORMERLY 504	S 80+00 E 45+00
TA - 37 - 19	MAC - 19	MAGAZINE	FORMERLY 505	S 80+00 E 45+00
TA - 37 - 20	MAC - 20	MAGAZINE	FORMERLY 506	S 80+00 E 50+00
TA - 37 - 21	MAC - 21	MAGAZINE	FORMERLY 507	S 80+00 E 50+00
TA - 37 - 22	MAC - 22	MAGAZINE	FORMERLY 508	S 80+00 E 50+00
TA - 37 - 23	MAC - 23	MAGAZINE	FORMERLY 509	S 80+00 E 55+00
TA - 37 - 24	MAC - 24	MAGAZINE	FORMERLY 510	S 80+00 E 55+00
TA - 37 - 25	MAC - 25	MAGAZINE	FORMERLY 511	S 80+00 E 60+00
TA - 37 - 26	MAC - 26	MAGAZINE	FORMERLY 512	S 80+00 E 60+00
TA - 37 - 27	MAC - 27	STORAGE BUILDING		S 75+00 E 35+00
TA - 37 - 28	MAC - 28	TANK	SEPTIC	S 70+00 E 30+00
TA - 37 - 29	MAC - 29	TANK	WATER - UNDERGROUND	S 70+00 E 30+00
TA - 37 - 30	MAC - 30	MANHOLE	SANITARY	S 70+00 E 30+00
TA - 37 - 31	MAC - 31	TRANSFORMER STATION		S 80+00 E 55+00
TA - 37 - 32	MAC - 32	TRANSFORMER STATION		S 75+00 E 45+00
TA - 37 - 33	MAC - 33	TRANSFORMER STATION		S 70+00 E 30+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

DRAFT

UNCLASSIFIED

FIGURE 37-2

TA-37 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
15	8-18-83	REVISED TITLE BLOCK & DWG TO STATUS OF 7-27-83	HS		

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INDEX SHEET
STRUCTURE LOCATION PLAN
TA-37 MAGAZINE AREA - C

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 9-29-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 8-18-83; SHEET NO 1 of 2; DRAWING NO ENG-R5119

TA-39

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 39 is used principally for investigations in which explosives are used in various experiments. The area includes active and inactive open-air firing sites and a high-velocity gas gun facility. Materials used in shots here included beryllium, mercury, aluminum, copper, brass, iron, lead, steel, thallium, cadmium, chromium, thorium, and natural and depleted uranium.

TA-39 lies at elevations between about 6,350 and 6,480 feet asl. It is located on the floor of a northwestern branch of Ancho Canyon in the southern part of the Laboratory property. Canyon walls are steep or cliffs in this area.

TA-39 lies on alluvial materials underlain by largely non-welded to moderately welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zones. The major soil series in the canyon is Totavi gravelly loamy sand. These are well-drained, deep (150 cm, or more) soils typically formed on alluvium in canyon bottoms. Permeability is very rapid (>50 cm/h), runoff is very slow (0.0- 0.13 cm, measured as soil loss from unprotected soil during a two-year, 30-minute precipitation event), and the erosion hazard is low (0 to 0.64 cm soil/yr).

At TA-39, the potentiometric surface of the main aquifer in the Los Alamos area lies between about 5,700 and 5,850 feet asl. There are several hundred feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-39
TYPE OF UNIT(s): LANDFILL
UNIT USE: DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

This unit consists of a number of disposal pits. Trenches were constructed, filled and covered with a soil cap. The first trenches in the area, constructed in the 1960's, were located east of Ancho Road, north of TA-39-69 (LANL coordinates S215+00, E245+00). One trench [39-001(a)] is shown on an engineering drawing; a second trench may be closer to Ancho Road. The known trench was 80' x 20'; depth is unknown. Both trenches have been partially paved over. The other landfills are to the north, located to the east of Ancho Road at approximately S180+00, E215+00 (LANL coordinates). The first trench in this area, known as Material Disposal Area Y (MDA-Y) [39-001(b)] is estimated to have been about 20' x 150' x 12' deep. A second trench [39-001(c)] was constructed adjacent and parallel to MDA-Y. This second trench was also estimated to have been 20' x 150' x 12'. MDA-Y was used from the late 1960's to 1970's and the second trench was in use from about 1976 to 1981. Together they covered an area of approximately 100' x 150'. A third trench [39-001(d)] in this area was constructed in 1981, south of and parallel to MDA-Y. This third trench was about 150' x 40' x 10' deep. It was filled by 1986 and was covered with soil. The fourth trench [39-001(e)] is currently active. It is adjacent and parallel to the third trench. It was constructed in 1986 and is about 150' x 40' x 10' deep.

WASTE INFORMATION

The earlier trenches near TA-39-69 reportedly contain waste that includes uranium, lead, mercury, and possible solvents, chemicals, beryllium, and PCB-containing oil. MDA-Y and the adjacent trench received wastes from TA-39 firing sites, laboratories and office buildings including uranium, lead, mercury, chemicals, and oil (possible containing PCB). The active trench and recently filled trench have in the past received firing site debris, laboratory and office waste similar to MDA-Y. Presently the active trench is used to dispose of nonhazardous material generated at TA-39.

RELEASE INFORMATION

These sites have not been monitored in detail, and it is unknown whether there have been hazardous releases.

39-002 DRUM STORAGE AREA

SUMMARY

LOCATION: TA-39
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

This unit is comprised of active and inactive container storage areas. TA-39 has two satellite storage areas that are currently active. These storage areas are located at TA-39-2 and -4 [39-002(a) and (b)]. An inactive container storage area is located at TA-39-63 [39-002(c)]. The waste oil has been removed. Building 4 is also used for scrap storage of small quantities of HE. The building has residual HE contamination. A recent field survey reports additional drum storage at TA-39-63, -56, -64, -98, -103 and at a boneyard south of TA-39-24 [39-002(c), (d), (e), (f), (g), and (h), respectively]. The boneyard has a newly constructed bermed asphalt pad for storing drums of oil. A waste storage area consisting of a shelter was found north of the landfill (MDA-Y).

WASTE INFORMATION

The satellite storage areas at TA-39-2 contain waste solvents. TA-39-4 contains scrap HE. The inactive area, part of TA-39-63, contained waste oil suspected of containing lead and solvents. Storage areas TA-39-2, -56, -63, -64, and -98 and the boneyard contain empty drums. Oil is also stored at the boneyard. Lead and oils are stored at the waste storage shelter north of MDA-Y. Unknown waste liquids are stored at the area near TA-39-103.

RELEASE INFORMATION

It is unknown whether the drums in the storage areas have leaked. Building 4 is contaminated with HE, and it is unknown whether a release has occurred.

DRAFT

39-003 INCINERATOR

SUMMARY

LOCATION: TA-39
TYPE OF UNIT(s): INCINERATOR
UNIT USE: TREATMENT
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1955 - 1960's

UNIT INFORMATION

An incinerator, TA-39-55, burned waste generated at TA-39. The unit was removed in 1977 and placed in the M-6 burial site. The unit was a model C-15 with a 15 bushel capacity. It has been reported that the former site of the incinerator was cleaned at the time of decommissioning.

WASTE INFORMATION

Constituents of the waste are unknown.

RELEASE INFORMATION

It is unknown whether the incinerator caused a hazardous waste release.

DRAFT

SUMMARY

LOCATION: TA-39
TYPE OF UNIT(s): FIRING SITE
UNIT USE: TESTING
OPERATIONAL STATUS: INACTIVE/ACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

There are several active and inactive firing sites at TA-39. The two inactive sites were completed in 1953 and were designated TA-39-7 and -8 [39-004(a) and (b)]. One active firing site was completed in 1953 and is designated TA-39-6 [39-004(c)]. The other two active firing sites are TA-39-57 and -88 [39-004(d) and (e)]. TA-39-57 was completed in 1958. TA-39-88 was built more recently and covers approximately 970 square feet. TA-39-57 is occasionally used for scrap HE detonation.

WASTE INFORMATION

Components of the shots may have included uranium, mercury, lead, and possibly beryllium. Scrap HE is disposed of at TA-39-57.

RELEASE INFORMATION

Any residual debris from the shots or detonations that has not been picked up remains in the impact zone.

DRAFT

39-005 SUMP AND DRAIN FIELD

SUMMARY

LOCATION: TA-39
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: EST. 1953 - 1987

UNIT INFORMATION

A sump served the trim building, TA-39-4. The decant from the sump discharged to a drain field. The sump and associated drain field have been removed.

WASTE INFORMATION

The sump received suspected HE liquid wastes from the trim building and possibly solvents. Any small pieces of HE would have separated from the liquid in the sump.

RELEASE INFORMATION

Contaminated soil was removed from the drain field area during decommissioning. No HE residuals are believed to remain.

DRAFT

SUMMARY

LOCATION: TA-39
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: ACTIVE/INACTIVE
PERIOD OF USE: SEE BELOW

UNIT INFORMATION

Septic Tank TA-39-12 [39-006(a)] was completed in 1953; the dimensions and construction materials are unknown. It handled wastes from Laboratory and Office Building 2 and is believed to be inactive. Septic Tank TA-39-104 [39-006(b)] was built in 1984 and serves approximately 80 people. It has a capacity of 2,500 gallons. Overflow from TA-39-104 goes to a subsurface sand filter. The filter was rebuilt and returned to service in October 1985.

WASTE INFORMATION

The septic systems handle sanitary and possibly photo processing wastes. Until recently small quantities of solvents and other chemicals from labs may have been discharged to the septic tanks.

RELEASE INFORMATION

Overflow from TA-39-12 was noted to be daylighting in 1973. Impacts to the soil are unknown. As of March 1988, no flow had emerged from the TA-39-104 sand filter. The extent of hazardous releases are not known.

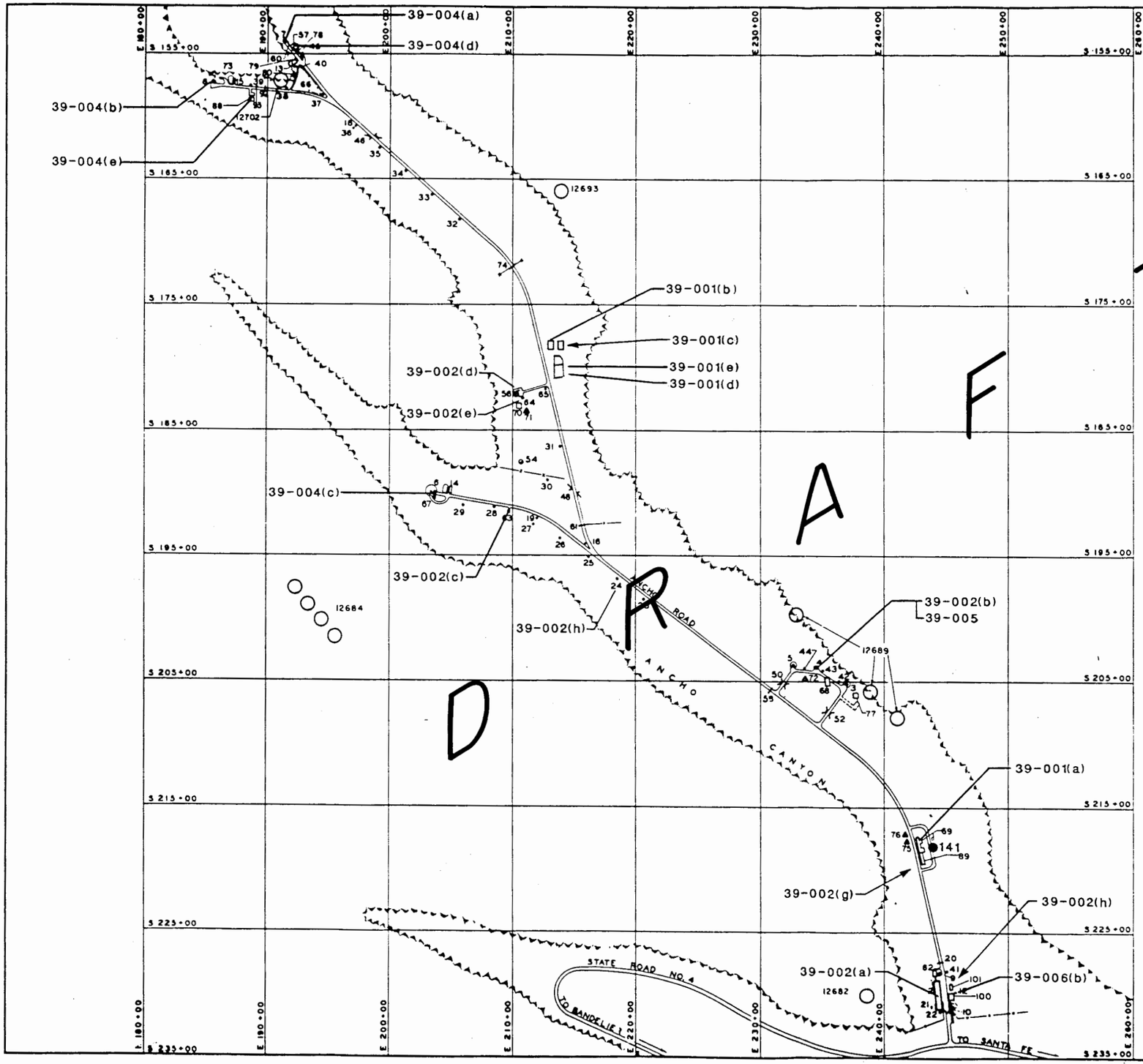
DRAFT

TA-39 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
39-001(a)	39-1
39-001(b)	39-1, 39-5
39-001(c)	39-1
39-001(d)	39-1
39-001(e)	39-1
39-002(a)	39-1
39-002(b)	39-1
39-002(c)	39-1
39-002(d)	39-1
39-002(e)	39-1
39-002(f)	39-1
39-002(g)	39-1
39-002(h)	39-1
39-003	39-2
39-004(a)	39-1
39-004(b)	39-1
39-004(c)	39-1
39-004(d)	39-1
39-004(e)	39-1
39-005	39-1
39-006(a)	39-1, 39-3
39-006(b)	39-1

DRAFT

301215 01 B49



EXPLANATION

39-001 SWMU LOCATION

010 LOCATION OF OUTFALL INDICATING ASSOCIATED PIPING AND NPDES SERIAL NUMBER (SEE APPENDIX A)

NOTES

UNIT 39-005: UNIT IS LOCATED NEAR TA-39-4
UNIT 39-002(g): APPROXIMATE LOCATION
UNIT 39-002(h): APPROXIMATE LOCATION

LEGEND: ARCHY SITE STATUS

△ EXCAVATED
○ UNEXCAVATED

1" = 400'

GRAPHIC SCALE

DRAFT

UNCLASSIFIED

FIGURE 39-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-39

REV	DATE	REVISION	BY	CKD	APP
15	8-18-83	REVISED TITLE BLOCK & DWG. TO STATUS OF 8-17-83	HS	JCS	DP

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

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

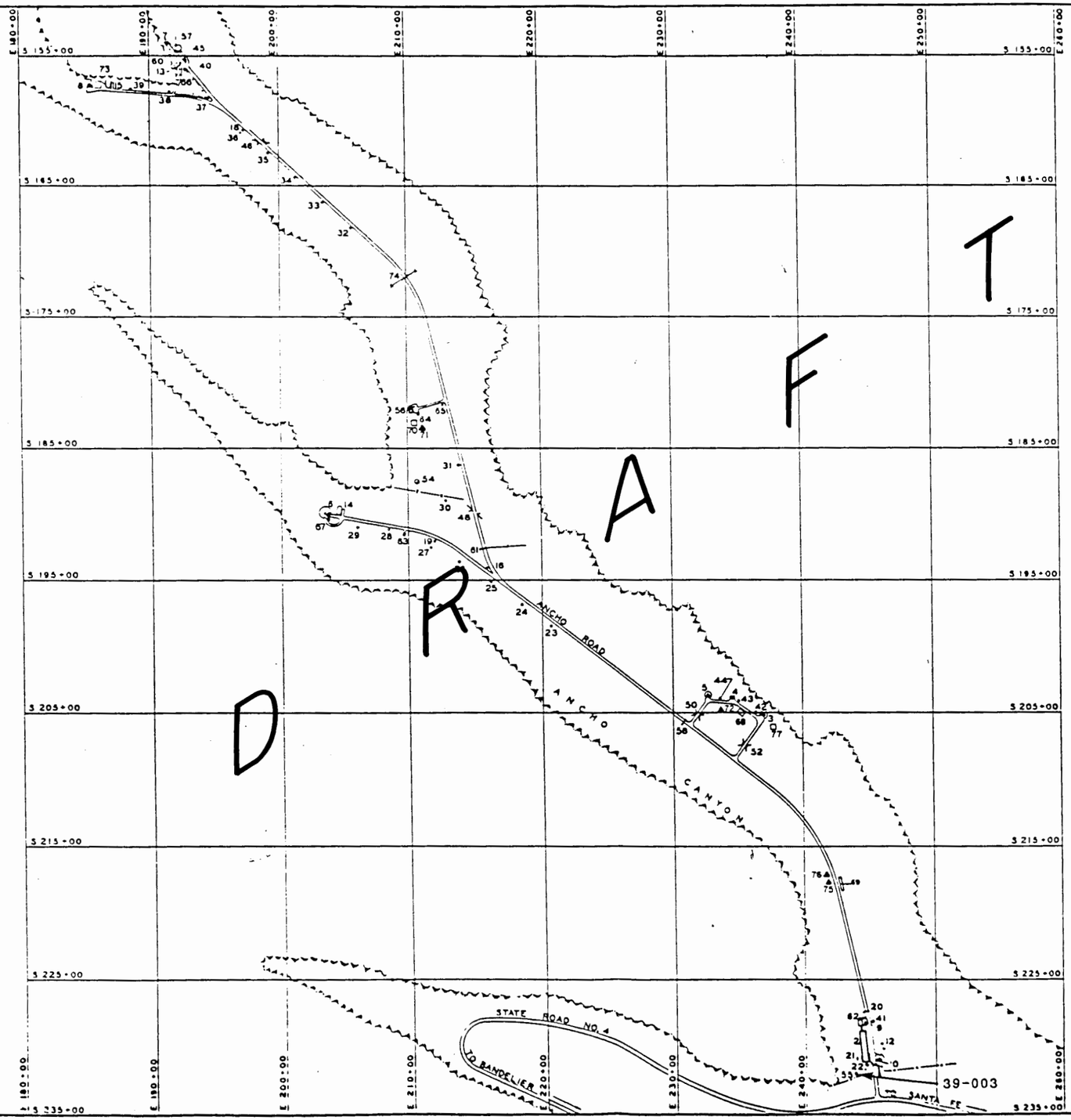
TA-39 ANCHO CANYON SITE

SEC CLASSIFICATION: CLASS U; REVIEWER; DATE 10-27-83

SUBMITTED; RECOMMENDED; APPROVED

DRAWN; CHECKED; DATE 8-18-83; SHEET NO 2 of 2; DRAWING NO ENG-R5120

301215 02 01 B101



EXPLANATION

39-001 SWMU LOCATION

UNCLASSIFIED

SCALE

REVIEWER

CLASS

DATE 3/19/72

FIGURE 39-2

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-39

NO.	DATE	REVISIONS	BY	CHKD	DSGN	ENG.	LDR
11	3-8-72	REVISED PER ENG. DWG. C-38640	DAD				
10	11-6-69	REVISED TO STATUS OF 11-6-69	DAD				
9	3-5-68	REVISED TO STATUS OF 3-5-68	RZ				
8	1-11-68	REVISED TO STATUS OF 12-18-67					
7	10-13-65	REVISED TO STATUS OF 9-2-65	RH				
6	10-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R 1951)	DDS				

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

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

STRUCTURE LOCATION PLAN

TA-39 ANCHO CANYON SITE

CHECKED: Lt. Kiser, ENGR. DIV.
RECOMMENDED: Kinney, GROUP LEADER
APPROVED: THE DIRT OFFICE

DESIGNED: SIMES
DATE: 8-15-61
SHEET 2 OF 2
DRAWING NO. ENG-R 2470
SCALE: AS NOTED

301215 02 01 B34

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-39-1	AC-1		UNASSIGNED	
TA-39-2	AC-2	LABORATORY & OFFICE BLDG.		S225+00 E240+00
TA-39-3	AC-3	MAIN MAGAZINE		S205+00 E240+00
TA-39-4	AC-4	TRIM BUILDING		S205+00 E240+00
TA-39-5	AC-5	READY MAGAZINE		S205+00 E230+00
TA-39-6	AC-6	FIRING CHAMBER NO.1		S185+00 E200+00
TA-39-7	AC-7	FIRING CHAMBER NO.2		S155+00 E190+00
TA-39-8	AC-8	FIRING CHAMBER NO.3		S155+00 E180+00
TA-39-9	AC-9	HOSE HOUSE		S225+00 E240+00
TA-39-10	AC-10	HOSE HOUSE		S235+00 E250+00
TA-39-11	AC-11		REMOVED 1963	
TA-39-12	AC-12	TANK	SEPTIC	S235+00 E250+00
TA-39-13	AC-13	BARRICADE		S155+00 E190+00
TA-39-14	AC-14	BARRICADE		S185+00 E210+00
TA-39-15	AC-15	BARRICADE		S155+00 E190+00
TA-39-16	AC-16	WIGWAG		S195+00 E220+00
TA-39-17	AC-17		REMOVED 1968	
TA-39-18	AC-18	SIREN		S185+00 E200+00
TA-39-19	AC-19	SIREN		S195+00 E210+00
TA-39-20	AC-20	ROAD BLOCK		S225+00 E250+00
TA-39-21	AC-21	TRANSFORMER STATION		S235+00 E240+00
TA-39-22	AC-22	MANHOLE	WATER	S235+00 E240+00
TA-39-23	AC-23	MANHOLE	ELECTRICAL	S195+00 E220+00
TA-39-24	AC-24	MANHOLE	ELECTRICAL	S195+00 E220+00
TA-39-25	AC-25	MANHOLE	ELECTRICAL	S195+00 E220+00
TA-39-26	AC-26	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-27	AC-27	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-28	AC-28	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-29	AC-29	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-30	AC-30	MANHOLE	ELECTRICAL	S185+00 E210+00
TA-39-31	AC-31	MANHOLE	ELECTRICAL	S185+00 E210+00
TA-39-32	AC-32	MANHOLE	ELECTRICAL	S165+00 E210+00
TA-39-33	AC-33	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-34	AC-34	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-35	AC-35	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-36	AC-36	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-37	AC-37	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-38	AC-38	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-39	AC-39	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-40	AC-40	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-41	AC-41	MANHOLE	STORM DRAINAGE	S225+00 E250+00
TA-39-42	AC-42	MANHOLE	STORM DRAINAGE	S205+00 E240+00
TA-39-43	AC-43	MANHOLE	STORM DRAINAGE	S205+00 E240+00
TA-39-44	AC-44	MANHOLE	STORM DRAINAGE	S205+00 E230+00
TA-39-45	AC-45	MANHOLE	STORM DRAINAGE	S155+00 E190+00
TA-39-46	AC-46	BOX CULVERT		S165+00 E200+00
TA-39-47	AC-47	BOX CULVERT	INCORP. WITH AC-46	
TA-39-48	AC-48	BOX CULVERT		S195+00 E210+00
TA-39-49	AC-49	BOX CULVERT	INCORP. WITH AC-48	
TA-39-50	AC-50	BOX CULVERT		S205+00 E230+00
TA-39-51	AC-51	BOX CULVERT	INCORP. WITH AC-50	
TA-39-52	AC-52	BOX CULVERT		S205+00 E240+00
TA-39-53	AC-53	BOX CULVERT	INCORP. WITH AC-52	
TA-39-54	AC-54	MAGAZINE		S185+00 E210+00
TA-39-55	AC-55	INCINERATOR		S235+00 E240+00
TA-39-56	AC-56	GUN BUILDING		S185+00 E210+00
TA-39-57	AC-57	FIRING CHAMBER		S155+00 E190+00
TA-39-58	AC-58	ROAD BLOCK		S205+00 E230+00
TA-39-59	AC-59		REMOVED 1968	
TA-39-60	AC-60	RETAINING WALL		S155+00 E190+00
TA-39-61	AC-61	ROAD BLOCK	FORMERLY TA-33-115	S195+00 E220+00
TA-39-62	AC-62	STORAGE BUILDING		S225+00 E240+00
TA-39-63	AC-63	EQUIPMENT SHELTER		S195+00 E210+00
TA-39-64	AC-64	EQUIPMENT SHELTER		S185+00 E210+00
TA-39-65	AC-65	SIREN		S185+00 E210+00
TA-39-66	AC-66	BARRICADE		S155+00 E190+00
TA-39-67	AC-67	CAPACITOR BANK ENCLOSURE		S185+00 E200+00
TA-39-68	AC-68	STORAGE BUILDING		S205+00 E240+00
TA-39-69	AC-69	LIGHT GAS GUN FACILITY		S215+00 E240+00
TA-39-70	AC-70	JIB CRANE		S185+00 E210+00
TA-39-71	AC-71	TRANSFORMER STATION		S185+00 E210+00
TA-39-72	AC-72	TRANSFORMER STATION		S205+00 E230+00
TA-39-73	AC-73	BARRICADE		S155+00 E190+00
TA-39-74	AC-74	SAFETY GATE		S175+00 E210+00
TA-39-75	AC-75	TRANSFORMER STATION		S215+00 E240+00
TA-39-76	AC-76	TRANSFORMER STATION		S215+00 E240+00
TA-39-77	AC-77	MAGAZINE	PROPOSED	

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

FIGURE 39-5

TA-39 STRUCTURE LOCATION INDEX

REVIEWER

CLASS DATE 8/8/72

NO.	DATE	REVISIONS	BY	CHKD	DESIGN ENG	CONST ENG
11	3-8-72	REVISED TO STATUS OF 3-8-72	DADI			
10	11-5-69	REVISED TO STATUS OF 11-6-69	DADI			
9	3-5-68	REVISED TO STATUS OF 3-5-68	RZ			
8	1-15-68	REVISED TO STATUS OF 12-18-67				
7	10-13-65	REVISED TO STATUS OF 6-2-65	RH			
6	8-15-61	REDRAWN TO STATUS OF 8-1-61 (WAS ENG-R181)	FA			

AUTHORIZED FOR: HEALTH, SAFETY, FIRE PROT., SEC.

LOS ALAMOS SCIENTIFIC LABORATORY

ENGINEERING DEPARTMENT

UNIVERSITY OF CALIFORNIA — LOS ALAMOS, NEW MEXICO

INDEX SHEET

STRUCTURE LOCATION PLAN

TA-39 ANCHO CANYON SITE

CHECKED (PROJ. ENG.)	RECOMMENDED (GROUP LEADER)	APPROVED (ENG. DEPT. OFFICE)

DESIGNER	DATE	DRAWING NO.
DRAWN ARZOLA	8-15-61	ENG-R 2469
SCALE NONE	SHEET 1 OF 2	

UNCLASSIFIED

301215 0201 B151

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-39-1	AC-1		UNASSIGNED	
TA-39-2	AC-2	LABORATORY & OFFICE BLDG.		S225+00 E240+00
TA-39-3	AC-3	MAIN MAGAZINE		S205+00 E240+00
TA-39-4	AC-4	TRIM BUILDING		S205+00 E240+00
TA-39-5	AC-5	READY MAGAZINE		S205+00 E230+00
TA-39-6	AC-6	FIRING CHAMBER NO.1		S185+00 E200+00
TA-39-7	AC-7	FIRING CHAMBER NO.2		S155+00 E190+00
TA-39-8	AC-8	FIRING CHAMBER NO.3		S155+00 E180+00
TA-39-9	AC-9	HOSE HOUSE		S225+00 E240+00
TA-39-10	AC-10	HOSE HOUSE		S235+00 E250+00
TA-39-11	AC-11		REMOVED 1963	
TA-39-12	AC-12	TANK	SEPTIC	S235+00 E250+00
TA-39-13	AC-13	BARRICADE		S155+00 E190+00
TA-39-14	AC-14	BARRICADE		S195+00 E210+00
TA-39-15	AC-15	BARRICADE		S155+00 E190+00
TA-39-16	AC-16	WIGWAG		S195+00 E220+00
TA-39-17	AC-17		REMOVED 1968	
TA-39-18	AC-18	SIREN		S165+00 E200+00
TA-39-19	AC-19	SIREN		S195+00 E210+00
TA-39-20	AC-20	ROAD BLOCK		S225+00 E250+00
TA-39-21	AC-21	TRANSFORMER STATION		S235+00 E240+00
TA-39-22	AC-22	MANHOLE	WATER	S235+00 E240+00
TA-39-23	AC-23	MANHOLE	ELECTRICAL	S195+00 E220+00
TA-39-24	AC-24	MANHOLE	ELECTRICAL	S195+00 E220+00
TA-39-25	AC-25	MANHOLE	ELECTRICAL	S195+00 E220+00
TA-39-26	AC-26	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-27	AC-27	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-28	AC-28	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-29	AC-29	MANHOLE	ELECTRICAL	S195+00 E210+00
TA-39-30	AC-30	MANHOLE	ELECTRICAL	S185+00 E210+00
TA-39-31	AC-31	MANHOLE	ELECTRICAL	S185+00 E210+00
TA-39-32	AC-32	MANHOLE	ELECTRICAL	S165+00 E210+00
TA-39-33	AC-33	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-34	AC-34	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-35	AC-35	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-36	AC-36	MANHOLE	ELECTRICAL	S165+00 E200+00
TA-39-37	AC-37	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-38	AC-38	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-39	AC-39	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-40	AC-40	MANHOLE	ELECTRICAL	S155+00 E190+00
TA-39-41	AC-41	MANHOLE	STORM DRAINAGE	S225+00 E250+00
TA-39-42	AC-42	MANHOLE	STORM DRAINAGE	S205+00 E240+00
TA-39-43	AC-43	MANHOLE	STORM DRAINAGE	S205+00 E240+00
TA-39-44	AC-44	MANHOLE	STORM DRAINAGE	S205+00 E230+00
TA-39-45	AC-45	MANHOLE	STORM DRAINAGE	S155+00 E190+00
TA-39-46	AC-46	BOX CULVERT		S165+00 E200+00
TA-39-47	AC-47	BOX CULVERT	INCORP. WITH AC-48	
TA-39-48	AC-48	BOX CULVERT		S195+00 E210+00
TA-39-49	AC-49	BOX CULVERT	INCORP. WITH AC-48	
TA-39-50	AC-50	BOX CULVERT		S205+00 E230+00
TA-39-51	AC-51	BOX CULVERT	INCORP. WITH AC-50	
TA-39-52	AC-52	BOX CULVERT		S205+00 E240+00
TA-39-53	AC-53	BOX CULVERT	INCORP. WITH AC-52	
TA-39-54	AC-54	MAGAZINE		S185+00 E210+00
TA-39-55	AC-55	INCINERATOR	REMOVED 1977	
TA-39-56	AC-56	GUN BUILDING		S185+00 E210+00
TA-39-57	AC-57	FIRING CHAMBER		S155+00 E190+00
TA-39-58	AC-58	ROAD BLOCK		S205+00 E230+00
TA-39-59	AC-59		REMOVED 1968	
TA-39-60	AC-60	RETAINING WALL		S155+00 E190+00
TA-39-61	AC-61	ROAD BLOCK	FORMERLY TA-33-[illegible]	S195+00 E220+00
TA-39-62	AC-62	STORAGE BUILDING		S225+00 E240+00
TA-39-63	AC-63	EQUIPMENT SHELTER		S195+00 E210+00
TA-39-64	AC-64	EQUIPMENT SHELTER		S185+00 E210+00
TA-39-65	AC-65	SIREN		S185+00 E210+00
TA-39-66	AC-66	BARRICADE		S155+00 E190+00
TA-39-67	AC-67	CAPACITOR BANK ENCLOSURE		S185+00 E200+00
TA-39-68	AC-68	STORAGE BUILDING		S205+00 E240+00
TA-39-69	AC-69	LIGHT GAS GUN FACILITY		S215+00 E240+00
TA-39-70	AC-70	JIB CRANE		S185+00 E210+00
TA-39-71	AC-71	TRANSFORMER STATION		S185+00 E210+00
TA-39-72	AC-72	TRANSFORMER STATION		S205+00 E230+00
TA-39-73	AC-73	BARRICADE		S155+00 E190+00
TA-39-74	AC-74	SAFETY GATE		S175+00 E210+00
TA-39-75	AC-75	TRANSFORMER STATION		S215+00 E240+00
TA-39-76	AC-76	TRANSFORMER STATION		S215+00 E240+00
TA-39-77	AC-77	MAGAZINE		S205+00 E240+00
TA-39-78	AC-78	PULL-BOX		S155+00 E190+00
TA-39-79	AC-79	PULL-BOX		S155+00 E190+00
TA-39-80	AC-80	PULL-BOX		S155+00 E190+00
TA-39-81	AC-81		CANCELLED	
TA-39-82	AC-82		CANCELLED	
TA-39-83	AC-83		CANCELLED	
TA-39-84	AC-84	TRANSFORMER STATION		S205+00 E240+00
TA-39-88	AC-88	FIRING POINT		S165+00 E190+00
TA-39-89	AC-89	GUN BUILDING		S225+00 E250+00
TA-39-92	AC-92	PULL BOX, TELEPHONE		S155+00 E190+00
TA-39-93	AC-93	PULL BOX, ELECTRICAL		S155+00 E190+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION
TA-39-100	AC-100	TRANSPORTABLE OFFICE BLDG		S220+00 E235+00
TA-39-101	AC-101	TRAILER, LABORATORY	FORMERLY TA-0-913	S225+00 E250+00

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	APPROXIMATE GRID LOCATION

UNCLASSIFIED

FIGURE 39-6

TA-39 STRUCTURE LOCATION INDEX

REV	DATE	REVISION	BY	CKD	APP
14	9-22-83	REVISED TITLE BLOCK AND DWG TO STATUS OF 8-1-83	VM		

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

FACILITIES ENGINEERING DIVISION

INDEX SHEET
STRUCTURE LOCATION PLAN
TA-39 ANCHO CANYON SITE

SEC CLASSIFICATION: CLASS. U
REVIEWER
DATE 10-25-83

SUBMITTED
RECOMMENDED
APPROVED
DRAWN
CHECKED
DATE 9-22-83
SHEET NO. 1 of 2
DRAWING NO ENG-R5120

301215 02 01 A28

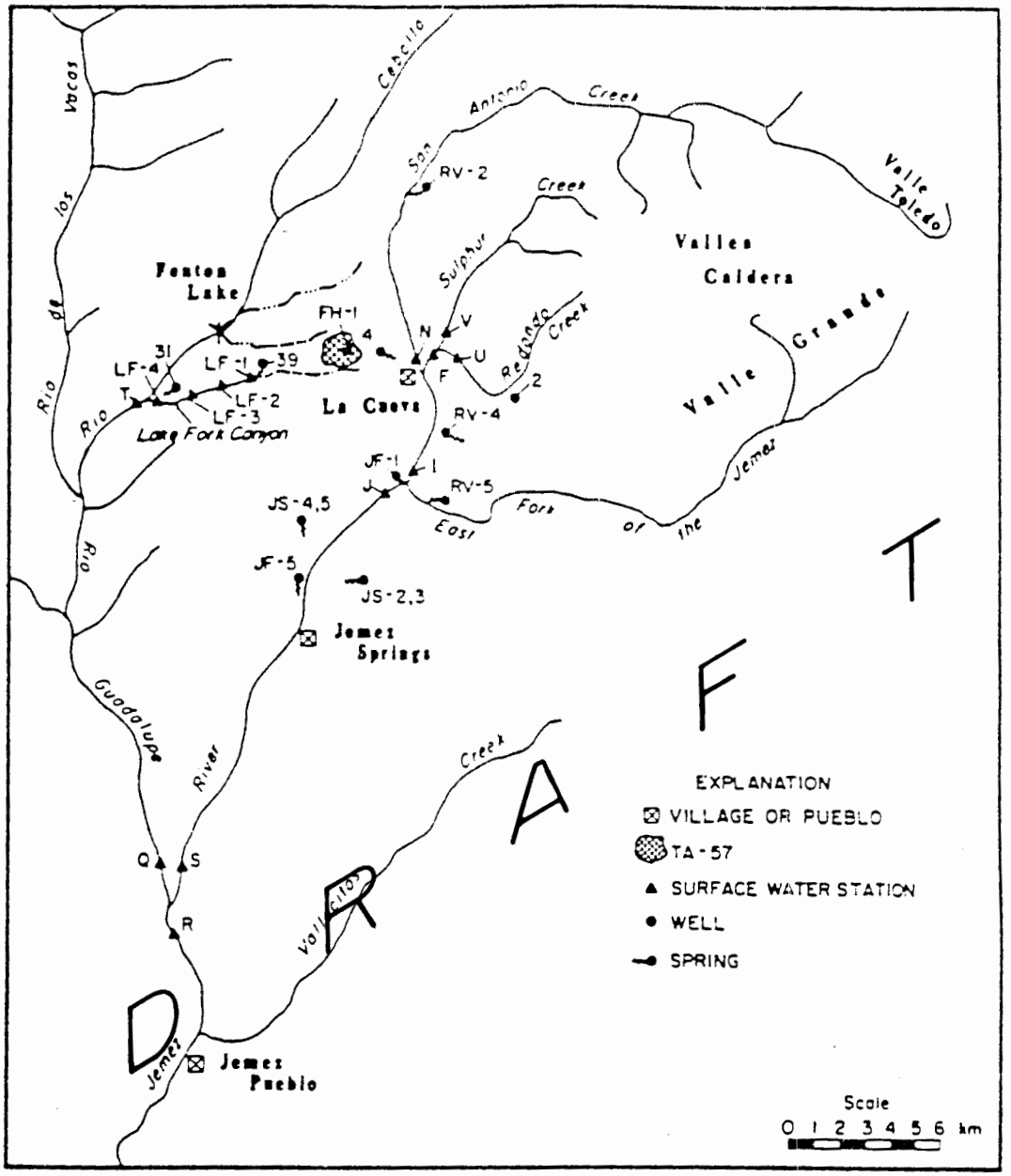
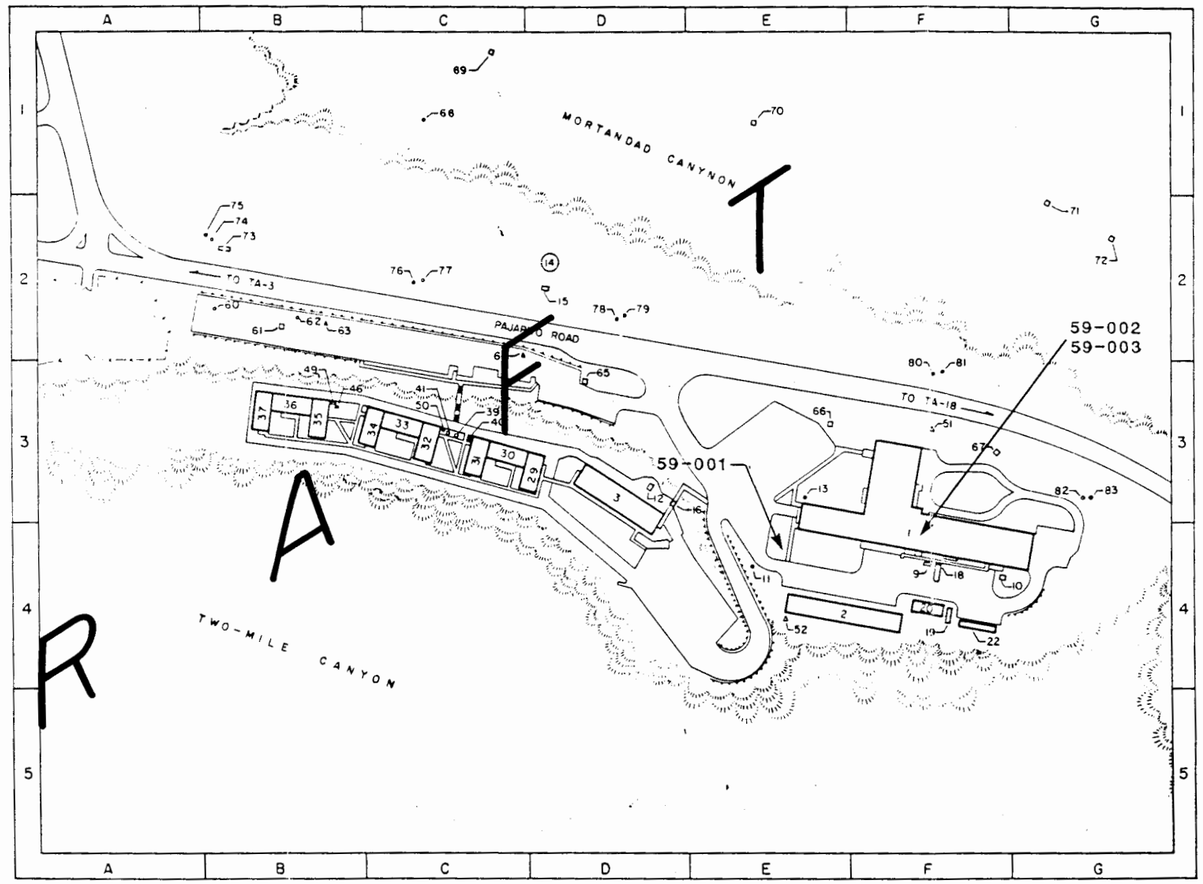


FIGURE 57-2
LOCATION OF TA-57 IN NEW MEXICO

UNCLASSIFIED

30215 02 01 B107

STRUCTURE NUMBER	STRUCTURE DESIGNATION	STRUCTURE NOMENCLATURE	REMARKS	STRUCT. LOC. MAP KEY
TA-59-1	OH-1	OCCUPATIONAL HEALTH LAB	FORMERLY TA-3-184	F-3
TA-59-2	OH-2	OFFICE BUILDING	FORMERLY TA-3-433	F-4
TA-59-3	OH-3	OFFICE BUILDING	FORMERLY TA-3-439	F-3
TA-59-4	OH-4	SEPTIC TANK	REMOVED 1979	
TA-59-5	OH-5	DISTRIBUTION BOX	REMOVED 1979	
TA-59-6	OH-6	FUEL TANK	REMOVED 1984	
TA-59-7	OH-7	SUB STATION	REMOVED 1981	
TA-59-8	OH-8	SUMP AND LIFT STATION	REMOVED 1984	
TA-59-9	OH-9	MANIFOLD	FORMERLY TA-3-1170	F-4
TA-59-10	OH-10	COOLING TOWER	FORMERLY TA-3-238	F-4
TA-59-11	OH-11	MANHOLE, SANITARY	FORMERLY TA-3-741	E-4
TA-59-12	OH-12	SUMP AND LIFT STATION		D-3
TA-59-13	OH-13	MANHOLE, WATER		E-3
TA-59-14	OH-14	WATER TANK	FORMERLY TA-3-266	D-2
TA-59-15	OH-15	FILL VALVE BOX, WATER	FORMERLY TA-3-267	D-2
TA-59-16	OH-16	TRANSFORMER STATION	FORMERLY TA-3-445	D-3
TA-59-17	OH-17		CANCELLED	
TA-59-18	OH-18	TRAILER, OFFICE	FORMERLY TA-0-446	F-4
TA-59-19	OH-19	TRAILER, OFFICE	FORMERLY TA-0-710	F-4
TA-59-20	OH-20	GREEN HOUSE		F-4
TA-59-21	OH-21		CANCELLED	
TA-59-22	OH-22	TRAILER, OFFICE	FORMERLY TA-54-24	F-4
TA-59-23	OH-23		CANCELLED	
TA-59-24	OH-24		CANCELLED	
TA-59-25	OH-25		CANCELLED	
TA-59-26	OH-26		CANCELLED	
TA-59-27	OH-27		CANCELLED	
TA-59-28	OH-28		CANCELLED	
TA-59-29	OH-29	TRANSPORTABLE OFFICE BLDG.		C-3
TA-59-30	OH-30	TRANSPORTABLE OFFICE BLDG.		C-3
TA-59-31	OH-31	TRANSPORTABLE OFFICE BLDG.		C-3
TA-59-32	OH-32	TRANSPORTABLE OFFICE BLDG		C-3
TA-59-33	OH-33	TRANSPORTABLE OFFICE BLDG		C-3
TA-59-34	OH-34	TRANSPORTABLE OFFICE BLDG.		C-3
TA-59-35	OH-35	TRANSPORTABLE OFFICE BLDG.		B-3
TA-59-36	OH-36	TRANSPORTABLE OFFICE BLDG.		B-3
TA-59-37	OH-37	TRANSPORTABLE OFFICE BLDG.		B-3
TA-59-38	OH-38		CANCELLED	
TA-59-39	OH-39	SUB STATION		C-3
TA-59-40	OH-40	TRANSFORMER STATION		C-3
TA-59-41	OH-41	TRANSFORMER STATION		C-3
TA-59-42	OH-42		CANCELLED	
TA-59-43	OH-43		CANCELLED	
TA-59-44	OH-44		CANCELLED	
TA-59-45	OH-45		CANCELLED	
TA-59-46	OH-46	TRANSFORMER STATION		B-3
TA-59-47	OH-47		CANCELLED	
TA-59-48	OH-48		CANCELLED	
TA-59-49	OH-49	F.A. AND TEL. CABINET		B-3
TA-59-50	OH-50	TELEPHONE CAB. AUXILIARY		C-3
TA-59-51	OH-51	TRANSFORMER STATION	FORMERLY TA-3-506	F-3
TA-59-52	OH-52	TRANSFORMER STATION	FORMERLY TA-3-438	E-4
TA-59-53	OH-53			
TA-59-54	OH-54			
TA-59-55	OH-55			
TA-59-56	OH-56			
TA-59-57	OH-57			
TA-59-58	OH-58			
TA-59-59	OH-59			
TA-59-60	OH-60	MANHOLE, TELEPHONE	FORMERLY TA-3-227	B-2
TA-59-61	OH-61	MANHOLE, ACID	FORMERLY TA-3-758	B-2
TA-59-62	OH-62	MANHOLE, ELECTRICAL	FORMERLY TA-3-898	B-2
TA-59-63	OH-63	TRANSFORMER STATION	FORMERLY TA-3-304	B-2
TA-59-64	OH-64	TRANSFORMER STATION	FORMERLY TA-3-305	D-2
TA-59-65	OH-65	MANHOLE, ACID		D-3
TA-59-66	OH-66	MANHOLE, ACID		E-3
TA-59-67	OH-67	MANHOLE, ACID		F-3
TA-59-68	OH-68	MANHOLE, ELECTRICAL	FORMERLY TA-3-1203	C-1
TA-59-69	OH-69	MANHOLE, ACID	FORMERLY TA-0-1160	C-1
TA-59-70	OH-70	MANHOLE, ACID	FORMERLY TA-0-1161	E-1
TA-59-71	OH-71	MANHOLE, ACID	FORMERLY TA-0-1162	G-2
TA-59-72	OH-72	MANHOLE, ACID	FORMERLY TA-0-1163	G-2
TA-59-73	OH-73	GAS METERING STATION	FORMERLY TA-3-361	B-2
TA-59-74	OH-74	MANHOLE, ELECTRICAL		B-2
TA-59-75	OH-75	MANHOLE, TELEPHONE		B-2
TA-59-76	OH-76	MANHOLE, ELECTRICAL		C-2
TA-59-77	OH-77	MANHOLE, TELEPHONE		C-2
TA-59-78	OH-78	MANHOLE, ELECTRICAL		D-2
TA-59-79	OH-79	MANHOLE, TELEPHONE		D-2
TA-59-80	OH-80	MANHOLE, ELECTRICAL		F-3
TA-59-81	OH-81	MANHOLE, TELEPHONE		F-3
TA-59-82	OH-82	MANHOLE, ELECTRICAL		G-3
TA-59-83	OH-83	MANHOLE, TELEPHONE		G-3



FEET 0 50 100 200 300
METERS 0 25 50 75 100
GRAPHIC SCALE

EXPLANATION

59-001 SWMU LOCATION

FIGURE 59-1

SOLID WASTE MANAGEMENT UNITS (SWMUs) IN TA-59

REV	DATE	REVISION	BY	CKD	APPD
2	5-21-86	REDRAWN AND REVISED TO STATUS OF 4-27-86	ALC		

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Los Alamos National Laboratory
Los Alamos, New Mexico 87545

FACILITIES ENGINEERING DIVISION

STRUCTURE LOCATION PLAN

TA-59 OH-SITE

SEC CLASSIFICATION
CLASS
REVIEWER
DATE

SUBMITTED
RECOMMENDED
APPROVED

DRAWN A. CLIFFORD
CHECKED
DATE 5-21-86
SHEET NO 1 OF 1
DRAWING NO ENG-R5134

APPENDIX A

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AT LOS ALAMOS NATIONAL LABORATORY

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
TA-0	TA-0-1051	BOILER BLOWDOWN	02A	108	INACTIVE	
	PAJARITO WELL #4	NONCONTACT COOLING WATER	04A	118	ACTIVE	
	PAJARITO WELL #5	NONCONTACT COOLING WATER	04A	119	INACTIVE	
TA-1	TA-1	CHEMICAL DRAIN	N/A	N/A	INACTIVE	
	TA-1	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
TA-2	TA-2-44	TREATED COOLING WATER	03A	019	ACTIVE	1.56 GPM
	TA-2-49	TREATED COOLING WATER	03A	020	ACTIVE	4.0 GPM
	TA-2	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
	TA-2	TREATED COOLING WATER	N/A	N/A	INACTIVE	
	TA-2-43	SEPTIC SYSTEM	N/A	N/A	INACTIVE	
TA-3	TA-3-73	ASPHALT PLANT DISCHARGE	04A	109	ACTIVE	1.0 GPM
	TA-3-73	NONCONTACT COOLING WATER	04A	110	ACTIVE	1.0 GPM
	TA-3	SEWAGE TREATMENT PLANT	SSS	01s	ACTIVE	0.2899 MGD
	TA-3-102	NONCONTACT COOLING WATER	04A	009	ACTIVE	12.5 GPM
	TA-3-105	NONCONTACT COOLING WATER	04A	010	INACTIVE	
	TA-3-216	NONCONTACT COOLING WATER	04A	086	INACTIVE	
	TA-3-170	NONCONTACT COOLING WATER	04A	094	ACTIVE	1.5 GPM
	TA-3-170	CYLINDER CLEANING WASTE	095	095	INACTIVE	
	TA-3-22	POWER PLANT	01A	001/002/003/ 004/005	ACTIVE	
	TA-3	GEOTHERMAL DISCHARGE	120	120	INACTIVE	
	TA-3-66	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
	TA-3-29	TREATED COOLING WATER	03A	021	ACTIVE	3.0 GPM
	TA-3-127	TREATED COOLING WATER	03A	022/138	ACTIVE	3.25 GPM
	TA-3-156	TREATED COOLING WATER	03A	023	ACTIVE	2.0 GPM
	TA-3-187	TREATED COOLING WATER	03A	024	ACTIVE	1.0 GPM
	TA-3-208	TREATED COOLING WATER	03A	025/026	ACTIVE	1.75 GPM
	TA-3-285	TREATED COOLING WATER	03A	027	ACTIVE	14.0 GPM

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
	TA-3-141	NONCONTACT COOLING WATER	04A	140	ACTIVE	
	TA-3-31	STORM DRAIN	N/A	N/A	INACTIVE	
	TA-3-36	STORM DRAIN	N/A	N/A	ACTIVE	
	TA-3-38	STORM DRAIN	N/A	N/A	UNKNOWN	
	TA-3-382	MOTORPOOL	N/A	N/A	ACTIVE	
	TA-3-382	MOTORPOOL	N/A	N/A	INACTIVE	
TA-4	TA-4	PHOTO WASTE	N/A	N/A	INACTIVE	
TA-5	TA-5	PHOTO WASTE	N/A	N/A	INACTIVE	
	TA-5-8	FLOOR DRAIN	N/A	N/A	INACTIVE	
TA-6	TA-6-10	SANITARY DRAINLINE	N/A	N/A	INACTIVE	
	TA-6-40	HIGH EXPLOSIVE DISCHARGE (ST)	N/A	N/A	INACTIVE	
TA-8	TA-8-70	NONCONTACT COOLING WATER	04A	076/115	ACTIVE	
	TA-8-70	NONCONTACT COOLING WATER	04A	115/076	ACTIVE	1.0 GPM
	TA-8-9-211	OXIDATION POND	SSS	11s/02s	ACTIVE	0.0027 MGD
	TA-8-22	PHOTO WASTES	06A	074	ACTIVE	2.5 GPM
	TA-8-21	PHOTO WASTES	06A	075	ACTIVE	1.2 GPM
TA-9	TA-9-21-A	HIGH EXPLOSIVE DISCHARGE	05A	066	ACTIVE	4.33 GPM
	TA-9-21-B	HIGH EXPLOSIVE DISCHARGE	05A	067	ACTIVE	6.0 GPM
	TA-9-48	HIGH EXPLOSIVE DISCHARGE	05A	068	ACTIVE	10.0 GPM
	TA-9	OXIDATION POND	SSS	02s/11s	ACTIVE	
	TA-9-190	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	ACTIVE	
	TA-9-107	SEPTIC SYSTEM	N/A	N/A	ACTIVE	
	TA-9-108	SEPTIC SYSTEM	N/A	N/A	ACTIVE	
	TA-9-109	SEPTIC SYSTEM	N/A	N/A	ACTIVE	
	TA-9-110	SEPTIC SYSTEM	N/A	N/A	ACTIVE	
	TA-9-203	SEPTIC SYSTEM	N/A	N/A	INACTIVE	
	TA-9-212	SEPTIC SYSTEM	N/A	N/A	INACTIVE	

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
TA-10	TA-10-1	SANITARY DRAIN~~LINE~~	N/A	N/A	INACTIVE	
	TA-10-41,42	SANITARY	N/A	N/A	INACTIVE	
	TA-10-38	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
TA-11	TA-11-50	HIGH EXPLOSIVE DISCHARGE	05A	069	ACTIVE	.062 GPM
	TA-11-51	HIGH EXPLOSIVE DISCHARGE	05A	096	ACTIVE	.0925 GPM
	TA-11-52	HIGH EXPLOSIVE DISCHARGE	05A	097	ACTIVE	.12 GPM
	TA-11-30	TREATED COOLING WATER	03A	130	ACTIVE	
	TA-14-31	HIGH EXPLOSIVE DISCHARGE	05A	N/A	ACTIVE	
TA-15	TA-15-194	NONCONTACT COOLING WATER	04A	093	ACTIVE	2.0 GPM
	TA-15-138	NONCONTACT COOLING WATER	04A	105	INACTIVE	
	TA-15-263	NONCONTACT COOLING WATER	04A	121	INACTIVE	
	TA-15-R45	NONCONTACT COOLING WATER	04A	122	INACTIVE	
	TA-15-40	NONCONTACT COOLING WATER	04A	102	INACTIVE	
	TA-15-R183	PHOTO WASTES	06A	123	ACTIVE	0.5 GPM
	TA-15-202	TREATED COOLING WATER	03A	028	ACTIVE	0.875 GPM
	TA-15-40	NONCONTACT COOLING WATER	04A	103	ACTIVE	0.5 GPM
	TA-15-306	NONCONTACT COOLING WATER	04A	143	ACTIVE	
	TA-15-184	NONCONTACT COOLING WATER	04A	139	ACTIVE	
	TA-15-62	INDUSTRIAL WASTE	N/A	N/A	ACTIVE	
	TA-15-63	SANITARY WASTE (ST)	N/A	N/A	INACTIVE	
	TA-15-92	SANITARY WASTE	N/A	N/A	INACTIVE	
	TA-15-20	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-15-50	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
	TA-15-203	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
TA-16	TA-16-540	BOILER BLOWDOWN	02A	007	INACTIVE	
	TA-16-380	HIGH EXPLOSIVE DISCHARGE	05A	052	ACTIVE	0.0625 GPM
	TA-16-410	HIGH EXPLOSIVE DISCHARGE	05A	053	ACTIVE	0.125 GPM
	TA-16-360	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-16-345	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-16-450	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-16-340	TREATED COOLING WATER	03A	029/054	ACTIVE	

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT
DISCHARGE ELIMINATION SYSTEM (NPDES)
AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
	TA-16-340	HIGH EXPLOSIVE DISCHARGE	05A	054/029	ACTIVE	15.0 GPM
	TA-16-401-406	HIGH EXPLOSIVE DISCHARGE	05A	055	ACTIVE	5.25 GPM
	TA-16-260	HIGH EXPLOSIVE DISCHARGE	05A	056	ACTIVE	1.25 GPM
	TA-16-265,267	HIGH EXPLOSIVE DISCHARGE	05A	057	ACTIVE	0.12 GPM
	TA-16-300	HIGH EXPLOSIVE DISCHARGE	05A	058	ACTIVE	15.0 GPM
	TA-16-280	HIGH EXPLOSIVE DISCHARGE	05A	061	ACTIVE	0.31 GPM
	TA-16-342	HIGH EXPLOSIVE DISCHARGE	05A	062	ACTIVE	0.05 GPM
	TA-16-400	HIGH EXPLOSIVE DISCHARGE	05A	063	ACTIVE	0.625 GPM
	TA-16-430	HIGH EXPLOSIVE DISCHARGE	05A	071	ACTIVE	0.5 GPM
	TA-16-460	HIGH EXPLOSIVE DISCHARGE	05A	072/059	ACTIVE	2.5 GPM
	TA-16-460	NONCONTACT COOLING WATER	04A	059/072	ACTIVE	
	TA-16-220	NONCONTACT COOLING WATER	04A	070	ACTIVE	1.0 GPM
	TA-16-202	NONCONTACT COOLING WATER	04A	083	ACTIVE	2.0 GPM
	TA-16-450	NONCONTACT COOLING WATER	04A	091	ACTIVE	0.25 GPM
	TA-16-370	TREATED COOLING WATER	03A	092	ACTIVE	1.0 GPM
	TA-16-222	PHOTO WASTES	06A	073	ACTIVE	0.905 GPM
	TA-16	SEWAGE TREATMENT PLANT	SSS	03s	ACTIVE	0.0171 MGD
	TA-16-430	TREATED COOLING WATER	03A	060	ACTIVE	2.63 GPM
	TA-16-478	NONCONTACT COOLING WATER	04A	134	ACTIVE	
	TA-16	HIGH EXPLOSIVE/INDUSTRIAL WASTE	N/A	N/A	ACTIVE	
	TA-16-175	SANITARY WASTE (SS)	SSS	N/A	ACTIVE	
	TA-16-178	SANITARY WASTE (SS)	SSS	N/A	ACTIVE	
	TA-16-45	PHOTO WASTES	N/A	N/A	INACTIVE	
	TA-16-28	TREATED COOLING WATER	N/A	N/A	INACTIVE	
	TA-16-189	TREATED COOLING WATER	N/A	N/A	INACTIVE	
	TA-16-262	TREATED COOLING WATER	N/A	N/A	INACTIVE	
	TA-16-372	TREATED COOLING WATER	N/A	N/A	INACTIVE	
	TA-16-301	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-16-303	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-16-305	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
	TA-16-307	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
TA-18	TA-18	OXIDATION POND	SSS	04s	ACTIVE	
	TA-18-30-31	PHOTO WASTES	06A	104	INACTIVE	

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT
DISCHARGE ELIMINATION SYSTEM (NPDES)
AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
	TA-18-39	SANITARY WASTE (ST)	N/A	N/A	ACTIVE	
	TA-18-40	SEPTIC SYSTEM	N/A	N/A	INACTIVE	
	TA-18-43	SEPTIC SYSTEM	N/A	N/A	INACTIVE	
TA-21	TA-21-257	INDUSTRIAL WASTE	050	050	INACTIVE	
	TA-21	SEWAGE TREATMENT PLANT	SSS	05s	ACTIVE	
	TA-21-2	TREATED COOLING WATER	03A	030	INACTIVE	
	TA-21-2	ACID SEWER	N/A	N/A	INACTIVE	
	TA-21-143	TREATED COOLING WATER	03A	031	ACTIVE	2.0 GPM
	TA-21-150	TREATED COOLING WATER	03A	032	ACTIVE	0.31 GPM
	TA-21-152	TREATED COOLING WATER	03A	033	INACTIVE	
	TA-21-166	TREATED COOLING WATER	03A	034	ACTIVE	7.5 GPM
	TA-21-210	TREATED COOLING WATER	03A	035	ACTIVE	0.185 GPM
	TA-21-220	TREATED COOLING WATER	03A	036	ACTIVE	1.[illegible] GPM
	TA-21-314	TREATED COOLING WATER	03A	037	ACTIVE	0.25 GPM
	TA-21-149	NONCONTACT COOLING WATER	04A	142	ACTIVE	
	TA-21-357	BOILER BLOWDOWN	02A	006	INACTIVE	
	TA-21-357	BOILER BLOWDOWN	02A	129	ACTIVE	
	TA-21-3,6	STORM DRAIN	N/A	N/A	INACTIVE	
	TA-21-3,6	SANITARY AND INDUSTRIAL WASTE (SS)	N/A	N/A	INACTIVE	
	TA-21-3,6	SEWER DRAINS	N/A	N/A	INACTIVE	
	TA-21-56	SANITARY AND INDUSTRIAL WASTE (SS)	N/A	N/A	ACTIVE	
	TA-21-35	TREATED INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
	TA-21-53	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-55	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-106	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-123	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-124	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-125	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-163	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-181	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-194	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	
	TA-21-219	SEPTIC SYSTEMS	N/A	N/A	INACTIVE	

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT
DISCHARGE ELIMINATION SYSTEM (NPDES)
AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
TA-22	TA-22-6	NONCONTACT COOLING WATER	04A	085	INACTIVE	
	TA-22-34	PHOTO WASTES	06A	078/064	ACTIVE	1.75 GPM
	TA-22-1	HIGH EXPLOSIVE DISCHARGE	05A	065	INACTIVE	
	TA-22-5 (S)	NONCONTACT COOLING WATER	04A	084	INACTIVE	
	TA-22-6	BOILER BLOWDOWN	02A	008	INACTIVE	
	TA-22-34	HIGH EXPLOSIVE DISCHARGE	05A	064/078	ACTIVE	0.125 GPM
	TA-22-52	PRINTED CIRCUIT BOARD	077	077	INACTIVE	
	TA-22-91	PRINTED CIRCUIT BOARD	128	128	ACTIVE	
	TA-22 (N)	NONCONTACT COOLING WATER	04A	011	INACTIVE	
	TA-22	PLATING SOLUTIONS/INDUSTRIAL	N/A	N/A	INACTIVE	
	TA-22-91	INDUSTRIAL WASTES	N/A	N/A	INACTIVE	
	TA-22-25	HIGH EXPLOSIVE DISCHARGE	N/A	N/A	INACTIVE	
TA-24	TA-24	PHOTO WASTE	N/A	N/A	INACTIVE	
TA-26	TA-26	UNKNOWN	N/A	N/A	INACTIVE	
TA-33	TA-33-114	TREATED COOLING WATER	03A	038	ACTIVE	0.12 GPM
	TA-33-86	NONCONTACT COOLING WATER	04A	147	ACTIVE	
	TA-33-32	SANITARY WASTE (SS)	N/A	N/A	UNKNOWN	
	TA-33-32	SANITARY RUNOFF	N/A	N/A	INACTIVE	
	TA-33-33	SANITARY (SS) OVERFLOW	N/A	N/A	ACTIVE	
TA-35	TA-35-67	NONCONTACT COOLING WATER	04A	012	INACTIVE	
	TA-35-67	NONCONTACT COOLING WATER	04A	088	INACTIVE	
	TA-35-46	NONCONTACT COOLING WATER	04A	087	INACTIVE	
	TA-35-34	NONCONTACT COOLING WATER	04A	089	INACTIVE	
	TA-35-85	NONCONTACT COOLING WATER	04A	090	INACTIVE	
	TA-35-213	NONCONTACT COOLING WATER	04A	127	ACTIVE	
	TA-35	OXIDATION POND	SSS	10s	ACTIVE	0.0140 MGD
	TA-35-33	TREATED COOLING WATER	03A	039	INACTIVE	
	TA-35-87	PHOTO WASTES	06A	132	ACTIVE	
	TA-35-29	NONCONTACT COOLING WATER	04A	116	INACTIVE	
	TA-35	SEWAGE TREATMENT PLANT	N/A	N/A	INACTIVE	

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
	TA-35-25	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
	TA-35-36	UNKNOWN	N/A	N/A	INACTIVE	
TA-36	TA-36-1	PHOTO WASTES	06A	106	ACTIVE	2.0 GPM
TA-39	TA-39-69	NONCONTACT COOLING WATER	04A	141	ACTIVE	
TA-40	TA-40-5	PHOTO WASTES	06A	080	ACTIVE	0.5 GPM
	TA-40-8	PHOTO WASTES	06A	081	ACTIVE	
	TA-40-12	PHOTO WASTES	06A	082	ACTIVE	0.375 GPM
	TA-40-1	PHOTO WASTES	06A	099	ACTIVE	
	TA-40-15	PHOTO WASTES	06A	100	REACTIVATED	
	TA-40-9	PHOTO WASTES	05A	101	INACTIVE	
	TA-40-41	HIGH EXPLOSIVES DISCHARGE	N/A	N/A	ACTIVE	
	TA-40-23	PHOTO WASTES	06A	099	ACTIVE	0.5 GPM
	TA-40-4	PHOTO WASTES	06A	079	ACTIVE	1.0 GPM
TA-41	TA-41	SEWAGE TREATMENT PLANT	SSS	06s	ACTIVE	0.0217 MGD
TA-43	TA-43-1	NONCONTACT COOLING WATER	03A	040/041	ACTIVE	3.0 GPM
	TA-43-1	TREATED COOLING WATER	03A	041/040	ACTIVE	
	TA-43	SANITARY	N/A	N/A	INACTIVE	
TA-45	TA-45	WASTE TREATMENT PLANT	N/A	N/A	INACTIVE	
	TA-45	INDUSTRIAL WASTE	N/A	N/A	INACTIVE	
TA-46	TA-46-30	NONCONTACT COOLING WATER	04A	013	ACTIVE	0.35 GPM
	TA-46-88	NONCONTACT COOLING WATER	04A	014	ACTIVE	2.5 GPM
	TA-46-24,59,76	NONCONTACT COOLING WATER	04A	018	ACTIVE	5.5 GPM
	TA-46-41	NONCONTACT COOLING WATER	04A	117	INACTIVE	
	TA-46	OXIDATION POND	SSS	07s	ACTIVE	0.0068 MGD
	TA-46-1	TREATED COOLING WATER	03A	042	ACTIVE	0.375 GPM
	TA-46-31	TREATED COOLING WATER	03A	043	ACTIVE	0.375 GPM

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
	TA-46-86	TREATED COOLING WATER	03A	044	INACTIVE	
	TA-46-169	TREATED COOLING WATER	03A	124	ACTIVE	0.16 GPM
	TA-46-200	TREATED COOLING WATER	03A	136	ACTIVE	
	TA-46	SEWAGE TREATMENT PLANT	SSS	12s	ACTIVE	
	TA-46	STORM DRAIN	N/A	N/A	INACTIVE	
	TA-46	DITCH	N/A	N/A	INACTIVE	
	TA-46-81	WASH SOLUTIONS	N/A	N/A	INACTIVE	
TA-48	TA-48-1	TREATED COOLING WATER	03A	045/046	ACTIVE	8.5 GPM
	TA-48-8	NONCONTACT COOLING WATER	04A	126	ACTIVE	10.0 GPM
	TA-48-1	NONCONTACT COOLING WATER	04A	015/045	ACTIVE	
	TA-48-1	NONCONTACT COOLING WATER	04A	016	ACTIVE	10.0 GPM
	TA-48-1	NONCONTACT COOLING WATER	04A	131	ACTIVE	
	TA-48-46	NONCONTACT COOLING WATER	04A	137	ACTIVE	
	TA-48-5	SEPTIC TANK/SAND FILTER	SSS	08s/010s	ACTIVE	
TA-50	TA-50-1	INDUSTRIAL WASTE	051	051	ACTIVE	44,355 GPD
TA-51	TA-51	INDUSTRIAL	N/A	N/A	ACTIVE	
TA-52	TA-52-11	NONCONTACT COOLING WATER	04A	112	INACTIVE	
	TA-52-1	NONCONTACT COOLING WATER	04A	111	INACTIVE	
TA-53	TA-53	OXIDATION POND	SSS	09s	ACTIVE	0.0113 MGD
	TA-53-60	TREATED COOLING WATER	03A	047	ACTIVE	1.5 GPM
	TA-53-62	TREATED COOLING WATER	03A	048	ACTIVE	4.5 GPM
	TA-53-64	TREATED COOLING WATER	03A	049	ACTIVE	7.5 GPM
	TA-53-293,294	NONCONTACT COOLING WATER	03A	113	ACTIVE	1.46 GPM
	TA-53-2	TREATED COOLING WATER	03A	114	ACTIVE	9.0 GPM
	TA-53-2	NONCONTACT COOLING WATER	04A	017/114	ACTIVE	
	TA-53-28	TREATED COOLING WATER	03A	125	ACTIVE	0.5 GPM
	TA-53-19	NONCONTACT COOLING WATER	04A	133	ACTIVE	
	TA-53-18	NONCONTACT COOLING WATER	04A	135	ACTIVE	
	TA-53-6	TREATED COOLING WATER	03A	145	ACTIVE	

OUTFALLS REGULATED UNDER NATIONAL POLLUTANT
DISCHARGE ELIMINATION SYSTEM (NPDES)
AT LOS ALAMOS NATIONAL LABORATORY
(CONTINUED)

TECH AREA NUMBER	BUILDING NUMBER	TYPE OF DISCHARGE	EPA OUTFALL NUMBER	NPDES SERIAL NUMBER	STATUS	ESTIMATED SOLID WASTE VOLUME
	TA-53-14	TREATED COOLING WATER	03A	146	ACTIVE	
TA-57	TA-57	GEOTHERMAL DISCHARGE	001	001	ACTIVE	
TA-59	TA-59-1	TREATED COOLING WATER	03A	098	ACTIVE	2.0 GPM

NOTES:
NPDES = NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
05A = EPA OUTFALL NUMBER
017, 004/001 = NPDES SERIAL NUMBER OF DISCHARGE/NPDES SERIAL NUMBER OF COMBINED OUTFALL
N/A = NOT APPLICABLE
MGD = MILLION GALLONS PER DAY
GPM = GALLONS PER MINUTE
? = UNKNOWN, DATA NOT AVAILABLE

APPENDIX B

AIR STACK LOCATIONS AT LOS ALAMOS NATIONAL LABORATORY
(Source: Los Alamos National Laboratory
Toxic Air Pollutant Database Developed for HSE-8
by PEI, August, 1988)

TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	ROOM LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
TA-0					
	TA-0-1051			METALS	
TA-3					
	TA-3-100			SOLVENTS/CORROSIVES	
	TA-3-102	FABRIC FILTER	13	SOLVENTS/REACTIVES/RADIONUCLIDES	
	TA-3-105			SOLVENTS/CORROSIVES	
	TA-3-141	DRY SCRUBBER/FABRIC FILTER	139	SOLVENTS	
	TA-3-1485			METALS	
	TA-3-1559	CARBON ADSORBER	109	SOLVENTS	
	TA-3-16			SOLVENTS/METALS/CORROSIVES	
	TA-3-216			SOLVENTS	
	TA-3-218			SOLVENTS	
	TA-3-22			UNKNOWN	
	TA-3-223			NONHAZARDOUS	
	TA-3-287			SOLVENTS	
	TA-3-29			SOLVENTS/METALS	
	TA-3-29			SOLVENTS/CORROSIVES	
	TA-3-316			SOLVENTS	
	TA-3-32			SOLVENTS/CORROSIVES	
	TA-3-34			SOLVENTS/CORROSIVES	

TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	ROOM LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
	TA-3-37			SOLVENTS	
	TA-3-38			SOLVENTS/METALS	
	TA-3-381			FLAMMABLES	
	TA-3-382			UNKNOWN	
	TA-3-39			SOLVENTS	
	TA-3-40			SOLVENTS/CORROSIVES	
	TA-3-410			UNKNOWN	
	TA-3-43			SOLVENTS	
	TA-3-473			SOLVENTS	
	TA-3-494			SOLVENTS/CORROSIVES	
	TA-3-66	CAUSTIC SCRUBBER	103	UNKNOWN	
	TA-3-66	FABRIC FILTER	H107	UNKNOWN	
	TA-3-70			NONHAZARDOUS	
	TA-3-86			SOLVENTS	
	TA-3-35			SOLVENTS	
	TA-3-4			SOLVENTS	
TA-8					Scrubber water is discharged to the canyon.
	TA-8-22			NONHAZARDOUS	
TA-9					Scrubber water is discharged to the canyon.
	TA-9-21			SOLVENTS/CORROSIVES	There are two stacks.
	TA-9-34				UNKNOWN
	TA-9-37			SOLVENTS	
	TA-9-45	WET SCRUBBER	101	SOLVENTS/CORROSIVES	
TA-11					
	TA-11-1	SOLVENTS			
TA-14	TA-14-23			UNKNOWN	

TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	ROOM LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
TA-15					
	TA-15-183			SOLVENTS	
	TA-15-194			SOLVENTS	
	TA-15-20			SOLVENTS	
	TA-15-233			UNKNOWN	
	TA-15-280			SOLVENTS	
	TA-15-291			NONHAZARDOUS	
	TA-15-50			CORROSIVES	
	TA-15-285			POSSIBLE REACTIVES	
TA-16					Scrubber water is discharged to the canyon.
	TA-16-202			SOLVENTS	
	TA-16-204			NONHAZARDOUS	
	TA-16-300	FABRIC FILTER	ALL	SOLVENTS/METALS	
	TA-16-300	WET SCRUBBER	ALL	SOLVENTS/METALS	
	TA-16-302	WET SCRUBBER	ALL	SOLVENTS/REACTIVES	
	TA-16-304			SOLVENTS	
	TA-16-340	WET CONDENSER	102	SOLVENTS	
	TA-16-340	WET CONDENSER	104	SOLVENTS	
	TA-16-342	WET SCRUBBER	101	UNKNOWN	
	TA-16-380	WET SCRUBBER	ALL	REACTIVES	
	TA-16-412			REACTIVES	
	TA-16-430	WET SCRUBBER	ALL	REACTIVES	
	TA-16-450			SOLVENTS	
	TA-16-460			SOLVENTS	
	TA-16-7			NONHAZARDOUS	
	TA-16-38			REACTIVES	
	TA-16-389			TOX~~ICS~~	
TA-18					
	TA-18-30			SOLVENTS/METALS/CORROSIVES	

TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	ROOM LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
TA-21					
	TA-21-152			SOLVENTS/CORROSIVES	
	TA-21-155N			UNKNOWN	
	TA-21-209			SOLVENTS/CORROSIVES	
	TA-21-210			SOLVENTS/CORROSIVES	
	TA-21-357			CORROSIVES	
	TA-21-3N			SOLVENTS/CORROSIVES	
	TA-21-4	FABRIC FILTER	ALL	SOLVENTS	
	TA-21-150			SOLVENTS/CORROSIVES	
	TA-21-210			SOLVENTS/METALS/REACTIVES/CORROSIVES	
	TA-21-213			SOLVENTS	
TA-22					
	TA-22-34			SOLVENTS/REACTIVES	
	TA-22-52			NONHAZARDOUS	
	TA-22-91			SOLVENTS/CORROSIVES	
TA-33					
	TA-33-113			SOLVENTS	
	TA-33-39			SOLVENTS	
	TA-33-86			SOLVENTS	
TA-35					
	TA-35-125	CAUSTIC SCRUBBER	820	SOLVENTS/REACTIVES/CORROSIVES	
	TA-35-125	CAUSTIC SCRUBBER	A-20	SOLVENTS/REACTIVES/CORROSIVES	
	TA-35-128	CAUSTIC SCRUBBER	ALL	SOLVENTS/REACTIVES/CORROSIVE	
	TA-35-128			SOLVENTS/REACTIVES/CORROSIVES	
	TA-35-188			METALS/REACTIVES	
	TA-35-2			SOLVENTS/CORROSIVES/REACTIVES	
	TA-35-207	CARBON ADSORBER	102	SOL~~VENTS~~/CORROSIVES	
	TA-35-213	SODA LIMETRAP/CAUSTIC SCRUBBER	C116	SOLVENTS/CORROSIVES	
	TA-35-213	SOLVENTS/CORROSIVES			
	TA-35-25			SOLVENTS	

TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	ROOM LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
	TA-35-67			METALS	
	TA-35-85			REACTIVES	
TA-36					
	TA-36-47			SOLVENTS	
	TA-36-1			SOLVENTS	
	TA-36-11			SOLVENTS	
	TA-36-12			NONHAZARDOUS	
	TA-36-3			SOLVENTS	
	TA-36-4			SOLVENTS	
	TA-36-5			SOLVENTS	
	TA-36-55			NONHAZARDOUS	
	TA-36-6			NONHAZARDOUS	
	TA-36-7			SOLVENTS	
	TA-36-82			SOLVENTS	
	TA-36-8			SOLVENTS	
TA-39					
	TA-39-2			SOLVENTS/CORROSIVES/REACTIVES	
	TA-39-57			NONHAZARDOUS	
	TA-39-6,7			SOLVENTS	
	TA-39-88			REACTIVE	
	TA-39-15			SOLVENTS	
TA-40					
	TA-40-12			UNKNOWN	
	TA-40-15			NONHAZARDOUS	
	TA-40-23			NONHAZARDOUS	
TA-41					
	TA-41-4			UNKNOWN	
TA-43				UNKNOWN	
	TA-43-1			SOLVENTS/METALS/CORROSIVES/REACTIVES UNKNOWN	
	TA-46			UNKNOWN	
	TA-46-1			SOLVENTS/CORROSIVES	

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TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
	TA-46-154	DRY SCRUBBER	111	SOLVENTS/REACTIVES/CORROSIVES	
	TA-46-154	CAUSTIC SCRUBBER	114	UNKNOWN	
	TA-46-16	FLAMMABLES			
	TA-46-24			SOLVENTS/REACTIVE/CORROSIVES/FLAMMABLES	
	TA-46-30			REACTIVES	
	TA-46-31	CAUSTIC SCRUBBER	102C	SOLVENTS/REACTIVES/CORROSIVES/FLAMMABLES	
	TA-46-31	CAUSTIC SCRUBBER	103	SOLVENTS/REACTIVES/CORROSIVES/FLAMMABLES	
	TA-46-31	CAUSTIC SCRUBBER	115	SOLVENTS/REACTIVES/CORROSIVES/FLAMMABLES	
	TA-46-31	CAUSTIC SCRUBBER	140	SOLVENTS/REACTIVES/CORROSIVES/FLAMMABLES	
	TA-46-41			SOLVENTS/FLAMMABLES	
	TA-46-58			SOLVENTS/CORROSIVES/FLAMMABLES	
	TA-46-76			SOLVENTS/FLAMMABLES	
	TA-46-77			CORROSIVES	
	TA-46-88			SOLVENTS/FLAMMABLES/REACTIVES	
TA-48					
	TA-48-1	DRY SCRUBBER	314	SOLVENTS/METALS/CORROSIVES/REACTIVES/FLAMMABLES	
	TA-48-8			SOLVENTS/CORROSIVES	
	TA-48-17			SOLVENTS/FLAMMABLES	
TA-50					
	TA-50-37			SOLVENTS/FLAMMABLES	
	TA-50-69			METALS/SOLVENTS	
	TA-50-1			SOLVENTS/METALS/FLAMMABLES/CORROSIVES	
TA-53					
	TA-53-1			SOLVENTS/CORROSIVES/FLAMMABLES	
	TA-53-15			SOLVENTS	
	TA-53-16			SOLVENTS/METALS	
	TA-53-17			SOLVENTS	
	TA-53-2			SOLVENTS/CORROSIVES	
	TA-53-21			UNK~~NOWN~~	
	TA-53-29			SOLVENTS	
	TA-53-3			SOLVENTS/CORROSIVES	
	TA-53-39			SOLVENTS	

TECHNICAL AREA	BUILDING NUMBER	CONTROL TYPE	LOCATION OF CONTROL TYPE	TYPE OF WASTE	COMMENTS
	TA-53-4			SOLVENTS/FLAMMABLES	
	TA-53-14			SOLVENTS	
	TA-53-18			SOLVENTS	
	TA-53-19			SOLVENTS	
TA-54					
	AREA L			CORROSIVES	
	AREA 4			NONHAZARDOUS	
TA-55					
	TA-55-1			SOLVENTS	
	TA-55-3	SODA LIMETRAP	177	SOLVENTS/CORROSIVES/REACTIVES	
	TA-55-4	DRY SCRUBBER	113	SOLVENTS/CORROSIVES/FLAMMABLES/REACTIVES	
	TA-55-4	CAUSTIC SCRUBBER	177		
	TA-55-4	SCRUBBER	?	SOLVENTS/CORROSIVES	
	TA-55-4	CONDENSER AND SCRUBBER	?	UNKNOWN	
	TA-55-4	CAUSTIC SCRUBBER	?	UNKNOWN	
	TA-55-4	SCRUBBER	?	UNKNOWN	
	TA-55-42			SOLVENTS/REACTIVES/CORROSIVES	
TA-59					
	TA-59-1	CAUSTIC SCRUBBER	180	SOLVENTS/REACTIVES/CORROSIVES	

TA-59

OPERATIONS AND ENVIRONMENTAL SETTING

Technical Area (TA) 59 is occupied by health, safety, and environmental operations at the Laboratory. An environmental laboratory uses samples for chemistry and radiological measurements. These samples are soils, water, vegetation, animals, foodstuffs, and bioassay samples.

TA-59 lies at elevations between 7,350 and 7,380 feet asl. It is located on the narrow mesa top formed between Mortandad Canyon on the north and Two Mile Canyon, a branch of Pajarito Canyon, on the south. Canyon walls are steep or cliffs in this area.

TA-59 lies on welded Bandelier Tuff. The area is in the Ponderosa Pine overstory vegetation zone. The soils at TA-59 belong principally to the Carjo loam which is moderately deep (51 to 102 cm), well drained, and typical of nearly level to moderately sloping mesa tops. The water holding capacity is medium. Permeability is slow (0.15 to 0.5 cm/h), runoff is medium (0.14 to 0.51 cm), and the erosion potential is moderate (0.65 to 1.8 cm soil/yr).

At TA-59, the potentiometric surface of the main aquifer in the Los Alamos area lies at about 6,150 feet asl. There are over 1,000 feet of unsaturated tuff and volcanic rock between the surface and the ground water table. Studies indicate that there is very low potential for downward flow of water or water-borne contaminants from the surface to the aquifer.

SUMMARY

LOCATION: TA-59
TYPE OF UNIT(s): SEPTIC SYSTEM
UNIT USE: TREATMENT/DISPOSAL
OPERATIONAL STATUS: DECOMMISSIONED
PERIOD OF USE: 1966 - 1979

UNIT INFORMATION

According to the CEARP this unit, TA-59-4, was located 115 ft southwest of Building 1. This septic system was completed in 1966. The septic tank was constructed of reinforced concrete in two compartments, was 4'3" x 17'3" x 17' deep, and had a capacity of 1500 gallons. The septic tank had an overflow to a leach field through a distribution box. The distribution box was located 160' southwest of the southwest corner of TA-59-1. The box was constructed of reinforced concrete and had dimensions of 1'6" x 6' x 2'3" deep. The tank was removed in 1979.

WASTE INFORMATION

According to LANL staff this tank could have received photo-processing wastes. Other industrial wastes may also have been present.

RELEASE INFORMATION

It is unknown whether the soil surrounding the tank was sampled during the tank decommissioning. It is unknown whether hazardous release has occurred.

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59-002 DRUM STORAGE

SUMMARY

LOCATION: TA-59
TYPE OF UNIT(s): CONTAINER STORAGE AREA
UNIT USE: STORAGE
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: ? - PRESENT

UNIT INFORMATION

In 1986, the CEARP field survey found debris and drums stored at several outside locations in TA-59. Some of the drums were marked as being radioactive. Most of the drums have been removed. According to LANL staff, there is a satellite drum storage area at TA-59-1 in Room 123.

WASTE INFORMATION

Some of the drums contain radioactive waste and the contents of the other drums are unknown. The drums at TA-59-1 contain spent inorganic and organic solutions.

RELEASE INFORMATION

No information is available in the CEARP indicating whether the drums have leaked. There have been no known releases from the storage area in TA-59-1.

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SUMMARY

LOCATION: TA-59
TYPE OF UNIT(s): SUMP
UNIT USE: TREATMENT
OPERATIONAL STATUS: ACTIVE
PERIOD OF USE: 1980's - PRESENT

UNIT INFORMATION

Two sumps are located in the basement of the Occupational Health Laboratory (TA-59-1). One sump has a capacity of between 35 and 50 gallons and the capacity of the other sump is approximately 10 gallons. Each sump is equipped with a pump that feeds the liquid into the industrial acid line which goes to TA-50.

WASTE INFORMATION

The sumps handle waste from laboratory sinks which could contain radioactive materials. In past years, solvents and other chemicals may have been in the waste.

RELEASE INFORMATION

There are no known releases from these units.

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TA-59 SOLID WASTE MANAGEMENT UNITS (SWMUs) FIGURE INDEX

SWMU	FIGURE NUMBER
59-001	59-1
59-002	59-1
59-003	59-1

NOTE: Some structure locations may contain more than one SWMU.

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