

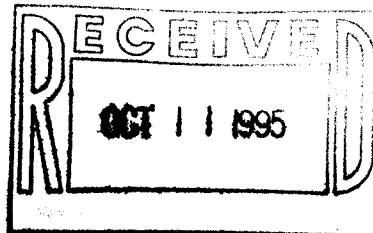


CABAS
DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 27th FIGHTER WING (ACC)
CANNON AIR FORCE BASE, NEW MEXICO

W. P. Ard, Colonel, USAF
Commander, 27th Support Group
100 S DL Ingram Blvd Suite 200
Cannon AFB NM 88103-5217

Mr. William Honker
Chief, RCRA Permits Branch
US EPA Region VI
1445 Ross Avenue Suite 1200
Dallas TX 75202-2733



Dear Mr. Honker

The Cannon AFB Installation Restoration Program (IRP) Management Action Plan (MAP), August 1995, is attached for your review. The MAP summarizes the tentative planning of IRP programs for the base as of August 1995.

If you have any questions, please contact Mr. John S. Pike or Mr. Sanford Hutsell, of my environmental flight, at (505) 784-4348.

Sincerely

W. P. ARD, Colonel, USAF
Commander, 27th Support Group

Attachment:
Management Action Plan, August 1995

cc:
NMED (B. Hoditschek)

FINAL

LIBRARY COPY



MANAGEMENT ACTION
PLAN

CANNON
AIR FORCE BASE

CLOVIS,
NEW MEXICO

August 1995

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INTRODUCTION AND SUMMARY

1.1 INTRODUCTION

As a result of past waste and resource management practices at Cannon Air Force Base (AFB), New Mexico (hereafter also referred to as the Base), some areas became contaminated by various hazardous compounds. In response, the Installation Restoration Program (IRP) and other environmental restoration programs were initiated at the Base. In addition, the Base has ongoing efforts to comply with applicable laws and regulations to ensure that present waste and resource management practices are carried out in a manner that protects human health and the environment.

This Management Action Plan (MAP) summarizes the status of the Cannon AFB environmental restoration program and presents a strategy for implementing response actions necessary to protect human health and the environment. This strategy integrates activities being performed under both the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-based IRP and the Resource Conservation and Recovery Act (RCRA) permit requirements for corrective action. The MAP is a dynamic document that will be updated regularly to incorporate newly obtained information and reflect the completion or change in status of RCRA Facility Investigations (RFIs) or Remedial Actions (RAs). This MAP was prepared with information available as of April and July 1995.

The MAP is a planning document, and information and estimates presented on costs, schedules, and RAs do not necessarily represent those that have been or will be approved by the U.S. Air Force (USAF) or state and federal regulatory agencies. It was necessary to make certain assumptions and interpretations to develop the estimates; therefore, as additional data become available, estimates could be dramatically altered. New estimates would be reflected in future updates to the MAP.

This MAP is organized as follows:

- Section 1 describes the objectives of the environmental restoration program, explains the purpose of the MAP, introduces the current project team formed to manage the IRP and compliance programs, and provides a brief history of the Base and surrounding area.
- Section 2 summarizes the Base Comprehensive Plan (BCP) and includes land use maps for the Base and surrounding area.
- Section 3 summarizes the status and history of the Cannon AFB IRP and associated Environmental Compliance Programs (ECPs), community relations activities that have occurred to date, and the environmental condition of Base property.
- Section 4 describes the Base-wide environmental restoration strategies, including strategies for dealing with each on-Base solid waste management unit (SWMU) and plans for addressing contaminant sources via the underground storage tank (UST) program and other compliance programs.
- Section 5 describes the master schedule of planned and anticipated activities, including associated compliance activities, to be performed throughout the duration of the environmental restoration program.
- Section 6 describes specific technical and/or administrative issues to be resolved by the Cannon AFB project team and presents a strategy for resolving these issues.

1.2 ENVIRONMENTAL RESPONSE GOALS AND OBJECTIVES

The goals and objectives of the Cannon AFB IRP/RCRA Corrective Actions Program (RCAP) are as follows:

1. Protect human health and the environment.

2. Comply with existing statutes and regulations.
3. Meet Cannon AFB's RCRA Hazardous Waste Storage Permit deadlines and/or commitments in other agreements.
4. Complete Remedial Investigations (RIs) or RFIs as soon as practicable for each SWMU, in order of priority as given in the Hazardous and Solid Waste Amendments of 1984 (HSWA) Permit Appendices.
5. Continue efforts to identify all potential source areas.
6. Identify and map the environmental condition of the Base, including areas of no suspected contamination (ANSCs), in a restoration geographic information system (GIS).
7. Initiate removal actions where necessary to control, eliminate, or reduce risks to manageable levels.
8. Characterize risks associated with releases of hazardous substances, pollutants, contaminants, or hazardous wastes.
9. Develop, screen, and select RAs that reduce risks in a manner consistent with statutory requirements. Full participation by the project team and the public is vital to this process.
10. Commence RAs as soon as practicable.
11. Conduct long-term groundwater monitoring/post-closure care as required.
12. Complete all RFIs and corrective actions by 2000.

1.3 PURPOSE OF THE MAP

This MAP summarizes the status of Cannon AFB's environmental restoration program and provides a comprehensive long-range strategy for conducting environmental restoration and associated compliance programs. It also defines the status of efforts to resolve scientific and technical issues so that continued progress and implementation of scheduled activities can occur. The Cannon AFB project team will use this MAP to direct and monitor environmental response actions, and to schedule activities needed to resolve technical, administrative, and operational issues.

1.4 PROJECT TEAM

The Cannon AFB project team has been established and is currently led Mr. John Constantine, the Base Remedial Project Manager (RPM). The project team meets when required to resolve technical and policy issues, review programs, and reach a consensus on procedural, organizational, and operational issues with state and federal regulators. Table 1-1 lists the team members and specifies their roles and responsibilities. Frequent, open communication by all team members is critical to the success of this MAP.

Project team meetings are used to review and discuss progress of the work at Cannon AFB. Meeting agendas would include discussions of reports, evaluations of the performance of environmental monitoring, reviews of progress on the RFI, and adjustments of deadlines or schedules. Other issues addressed in project team meetings may include data quality assurance/quality control (QA/QC), data management and analysis, background levels of contaminants in environmental media, data gap review, and risk assessment protocols. Section 6 presents the status and actions planned for these issues.

The project team will maintain communication among all team members on an as-needed basis for review and discussion of the progress of work at the Base. Communication can include correspondence, telephone conferences, and formal meetings. Topics of discussion and procedures for team members can include:

- Preparing periodic summaries from the RPM of the status of environmental restoration work at the Base and distributing to other team members

- Discussing issues related to the progress of the work
- Providing approval of minor modifications
- Documenting teleconferences and following up in writing to all team members when necessary

TABLE 1-1

CURRENT CANNON AFB PROJECT TEAM MEMBERS

Core Team Members			
Name	Title	Phone	Role/Responsibility
Mr. John Constantine	RPM	505-784-2739	Lead USAF Project Manager
Bob Sturdivant	RPM (Cannon AFB)	214-665-7440	EPA Region VI Project Manager
Rich Mayer	RPM (Melrose AFR)	214-665-7442	EPA Region VI Project Manager
Barbara Hoditschek	State RCRA Permit Manager	505-827-4358	NMED-HRMB
Dave Morgan	RPM	505-827-2771	NMED Project Manager
Margaret Calvert	HQ ACC/CEVR	804-764-3614	USAF Oversight Point of Contact
Captain Dezell	BEE	505-784-4063	Cannon AFB - BEE
Lt. Col. James Strasler	BCE	505-784-2008	Cannon AFB - BCE
Richard Chandler	UST Project Manager	505-784-4348	Cannon AFB - UST Project Manager
Captain O'Sullivan	JAG	505-784-2211	Cannon AFB - JAG
Captain Pierson	Public Affairs	505-784-4131	Cannon AFB - Public Affairs

Other Key Participants		
Name	Agency/Service	Contact/Phone
Craig Olsen	USACE Contract Management and Oversight	402-221-7827
Tom Acre	USACE Contractor Project Manager	303-694-2770
Steve Cox		402-334-8181
Woodward-Clyde		
Jim Bush	USACE Contractor Project Manager	303-980-3644
Foster Wheeler		
Ron Kern	State RCRA Technical Manager	505-827-4313
Paul Lancer	USACE DSMOA Contact	202-272-1176

AFB = Air Force Base	JAG = Judge Advocate General
AFR = Air Force Range	NMED = New Mexico Environment Department
BCE = Base Civil Engineer	RCRA = Resource Conservation and Recovery Act
BEE = Bioenvironmental Engineer	RPM = Remedial Project Manager
DSMOA = Defense and State Memorandum of Agreement	USACE = U.S. Army Corps of Engineers
EPA = U.S. Environmental Protection Agency	USAF = United States Air Force
HQ ACC/CEVR = Headquarters, Air Combat Command Environmental	UST = Underground Storage Tank

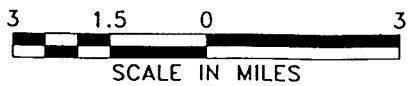
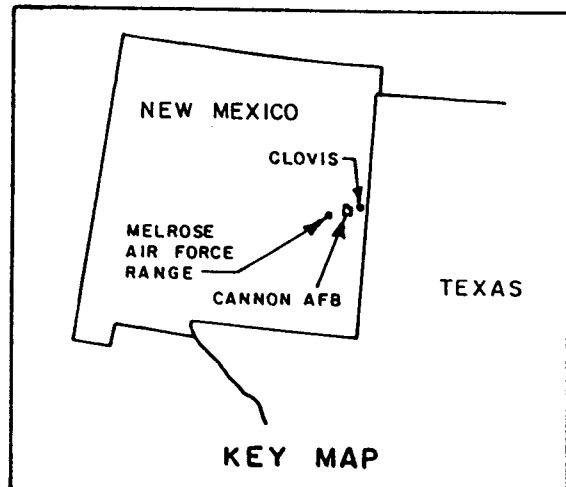
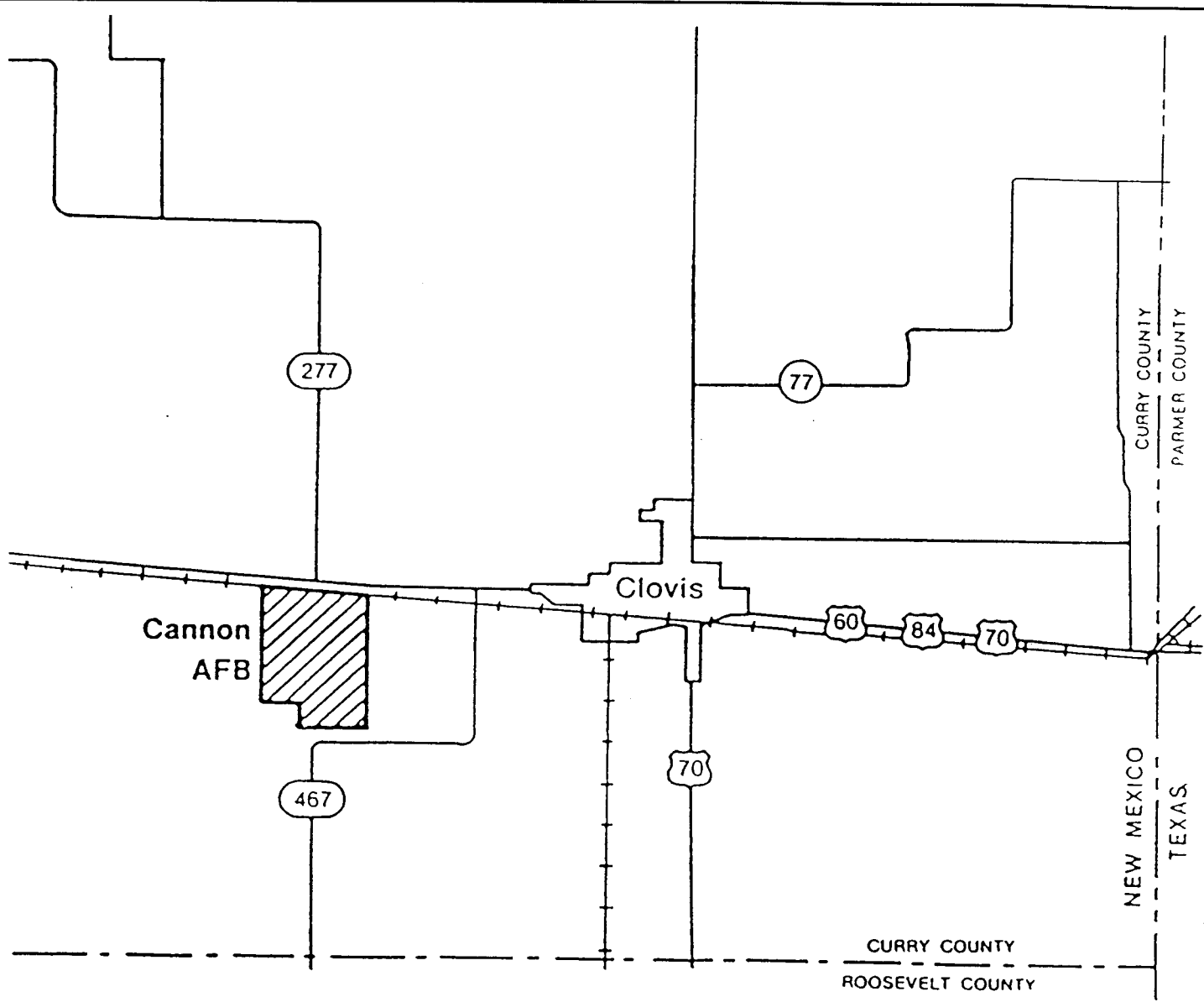
1.5 BRIEF HISTORY OF CANNON

Figure 1-1 shows the location of Cannon AFB in Clovis, New Mexico, and Table 1-2 outlines the Base's operational history. The area was farmland before the Base was established as Portair Field in 1929. Portair Field was a civilian passenger terminal for transcontinental flights where passengers transferred from overnight trains to Ford Tri-Motors for daytime flights. The U.S. War Department, now the Department of Defense (DoD), took control of Portair Field in 1942, renaming it Clovis Army Air Base. The Army Air Base provided training facilities for B-17, B-24, and B-29 air crews during World War II. Clovis Army Air Base was deactivated in 1947.

In 1951, the Air Base was reassigned to the Tactical Air Command and reactivated as Clovis AFB, operating P-51s and F-86s. The Base was renamed Cannon AFB in 1957 and operated F-100s. Since 1971, the primary mission of the Base has been to develop and maintain tactical fighter wings composed of various models of the F/EF-111 aircraft. Cannon AFB was reassigned to the Air Combat Command (ACC) on 1 June 1992. Cannon AFB is scheduled to convert from F/EF-111 to F-16 aircraft in 1995-1997.

The mission of Cannon AFB is to maintain a combat-ready force capable of day, night, and all-weather operations and to provide replacement training of combat aircrews for tactical organizations worldwide. To support this mission, quantities of petroleum, oils, and lubricants (POL) as well as solvents and protective coatings are used, resulting in waste generation.

The main Base covers approximately 3,801 acres (Figure 1-2). Open farmland borders the Base in every direction. Most of the Base is bounded to the north by U.S. Highway 60/84, with the exception of the 239-acre Chaves Manor Housing Area located north of 60/84. Chaves Manor is part of the Base and provides housing for Base personnel. Other residences are scattered along the highway in the vicinity of the Base.



DRN BY	SCR	DATE 04/12/95	LOCATION OF CANNON AFB, CLOVIS, NEW MEXICO CANNON AIR FORCE BASE NEW MEXICO	PROJECT No.	FIG. No.
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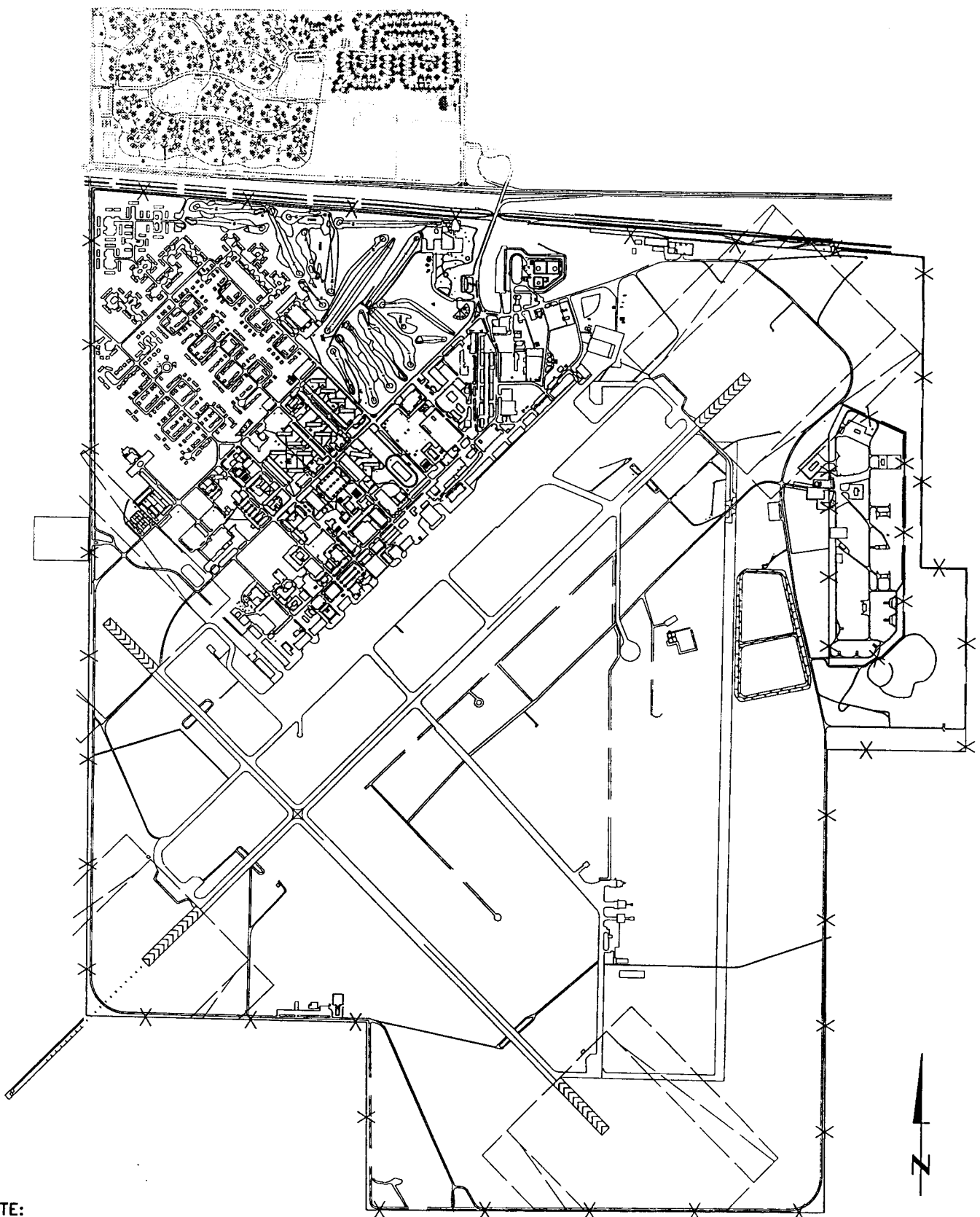
TABLE 1-2

HISTORY OF BASE OPERATIONS AT CANNON AFB

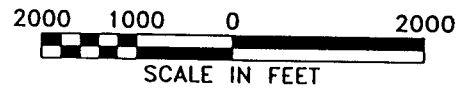
Period	Type of Operation	Weapon System	Hazardous Substance Activities
Pre-1929	Farmland	None	None
1929 to 1942	Portair Field Civilian Air Terminal	None	None
1942 to 1947	Clovis Army Air Base Bomber Training	B-17 B-24 B-29	Landfills, aircraft and auto fuel storage, hangars, machine shops (paints, solvents, metals), POL
1947 to 1951	Inactive	None	None
1951 to 1957	Clovis AFB Fighter/Bomber Training TAC	P-51 F-86	Landfills, aircraft and auto fuel storage, hangars, machine shops (paints, solvents, metals), POL, OWS, weapons storage, fire training areas, fuel pumphouses
1957 to 1969	Cannon AFB Fighter Training	F-100	Landfills, aircraft and auto fuel storage, hangars, machine shops (paints, solvents, metals), POL, OWS, weapons storage, fire training areas, fuel pumphouses
1969 to 1992	Cannon AFB Fighter/Bomber Training TAC	F/EF-111	Landfills, aircraft and auto fuel storage, hangars, machine shops (paints, solvents, metals), POL, OWS, weapons storage, fire training areas, fuel pumphouses, wastewater lagoons
1992 to Present*	Cannon AFB Fighter/Bomber Training ACC	F/EF-111	Landfills, aircraft and auto fuel storage, hangars, machine shops (paints, solvents, metals), POL, OWS, weapons storage, fire training areas, fuel pumphouses, wastewater lagoons

*F-111 aircraft will be replaced by F-16 aircraft in fiscal year 1996.

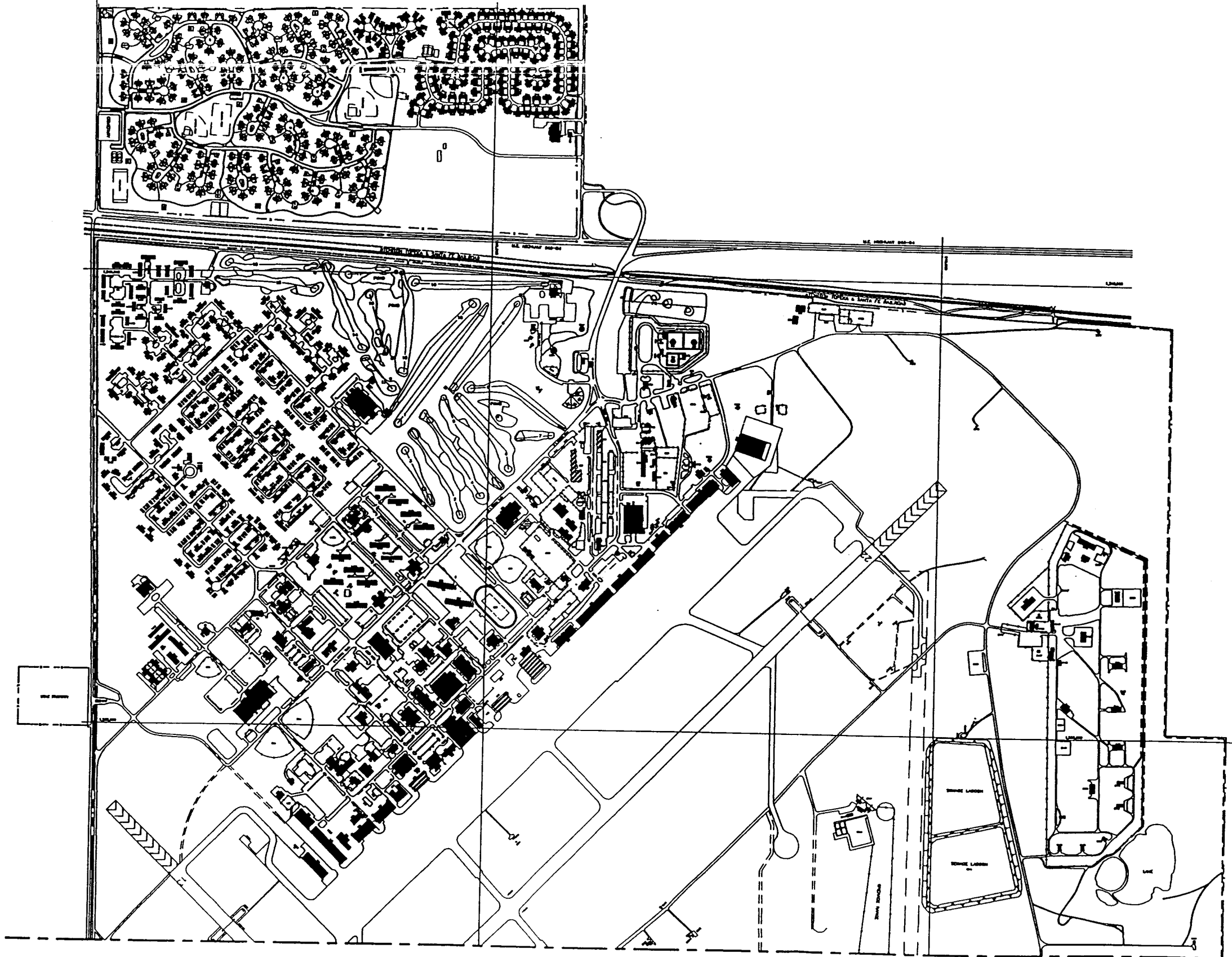
- ACC = Air Combat Command
- AFB = Air Force Base
- POL = Petroleum, oils, and lubricants
- TAC = Tactical Air Command
- OWS = Oil/Water Separator



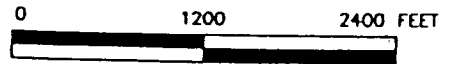
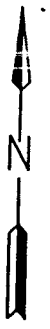
NOTE:
SEE FIGURES 1-2a AND 1-2b
FOR LARGER SCALE.



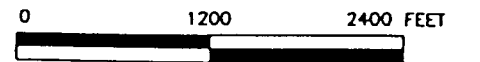
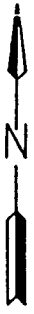
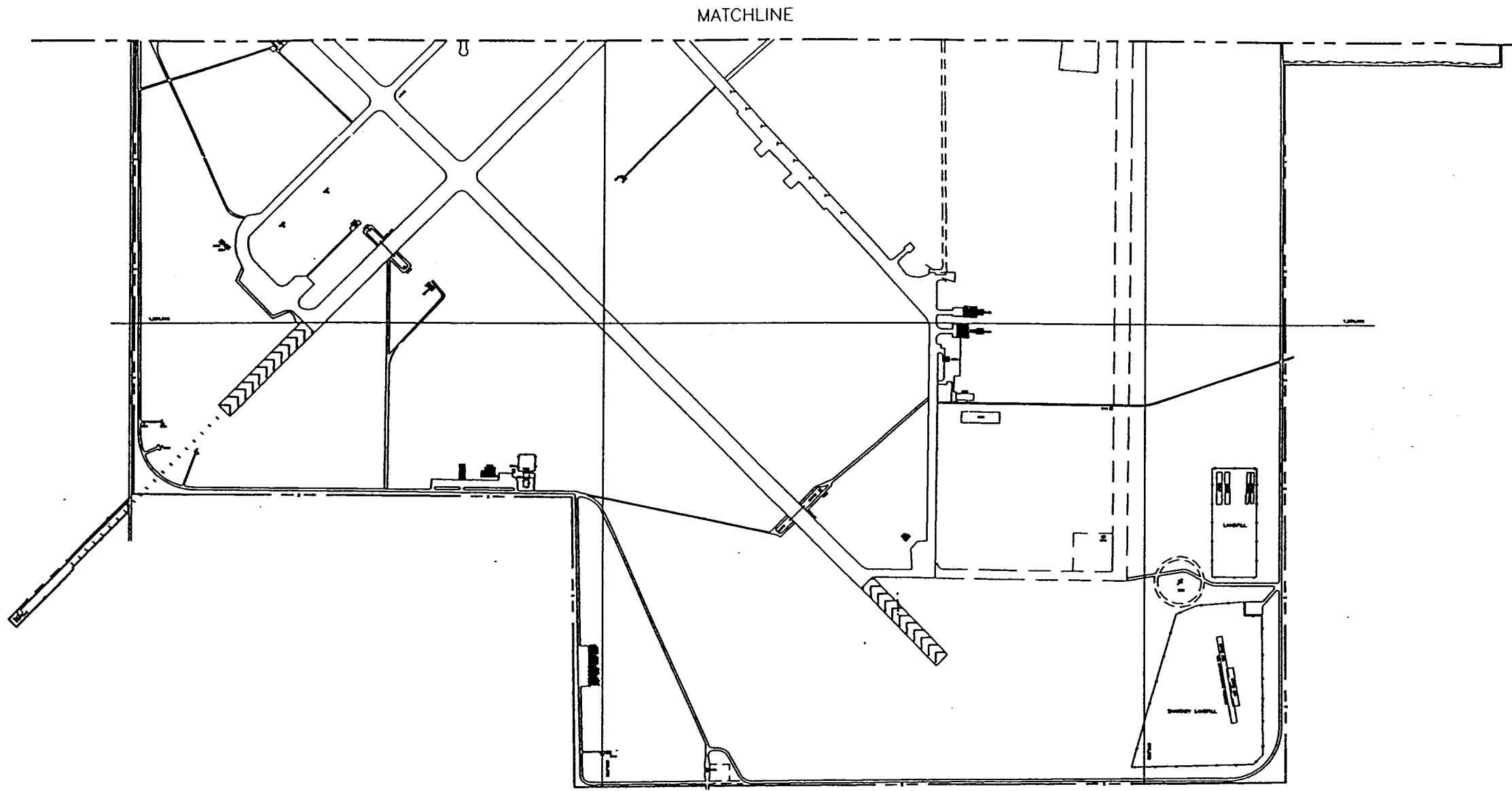
CANNON AIR FORCE BASE CLOVIS, NEW MEXICO			
DRN BY: JWB/SR	DATE: 08/01/95	PROJECT NO. 9C114LL1	FIG. NO. 1-2
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MATCHLINE



DRN. BY: SCR	DATE: 08/01/95	BASE MAP - NORTH CANNON AIR FORCE BASE NEW MEXICO	PROJECT NO. 9C114LL1	FIG. NO. 1-2a
CHK'D. BY:	REVISION: 0			



DRN. BY: SCR	DATE: 08/01/95	BASE MAP - SOUTH CANNON AIR FORCE BASE NEW MEXICO	PROJECT NO.	FIG. NO.
CHK'D. BY:	REVISION: 0		9C114LL1	1-2b