



US Army Corps
of Engineers
Rock Island District



Defense Environmental Restoration Program
for
Formerly Used Defense Sites
Ordnance and Explosives

Archives Search Report

FINDINGS

for
the former

BROWN FIELD BOMBING RANGE

SAN DIEGO COUNTY, CALIFORNIA
PROJECT NUMBER J09CA113001

SEPTEMBER 1997



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FOR
FORMERLY USED DEFENSE SITES

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ARCHIVES SEARCH REPORT
FOR
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September 1997

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ORDNANCE AND EXPLOSIVES
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1. INTRODUCTION

a. **Subject and Purpose**

(1) This report presents the findings of a historical records search and site inspection for ordnance and explosives (OE) located at the Former Brown Field Bombing Range (also known as the Otay Mesa Bombing Target, the Otay Bombing Target, or the Otay Mesa Bomb Target #32) located 2 miles northeast of the Brown Field (or Otay Mesa Air Field) San Diego County, California (see Plate 1 for general site location map). The investigation was performed under the authority of the Defense Environmental Restoration Program for Formerly Used Defense Sites (DERP FUDS).

(2) The investigation focused on 46.44 approximate acres of the former bombing target. The site was a Navy bombing and rocket target from 1942 to 1960.

(3) The investigation extended to 187.56 acres of additional lands that surrounded the original target area. This was due to the number of confirmed OE presence off the original bomb target. The SI team further established an additional 276-acre safety zone, which surrounded the above 187.56 acres and the bombing target. These additional lands total 463.56 acres for a total of 510.00 acres.

(4) The purpose of this investigation was to characterize the site for potential OE presence, to include conventional ammunition and chemical warfare material (CWM). The investigation was conducted by experienced ordnance experts through a thorough evaluation of historical records, interviews, and on-site visual inspection results.

b. **Scope**

(1) This report presents the site history, site description, real estate ownership information, and confirmed ordnance presence (prior to and after site closure), based on available records, interviews, site inspections, and analyses. The analyses provides a complete evaluation of all information to assess current day potential ordnance presence where actual ordnance presence has not been confirmed.

(2) For the purposes of this report, OE presence consists of live ammunition, live ammunition components, CWM, or explosives, which have been lost, abandoned, discarded, buried, fired, or thrown from demolition pits, or burning pads. These items were either manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense (WD/DOD). Such ammunition/components are no longer under accountable record control of any DOD organization or activity.

(3) **Expended** small arms ammunition (.50 cal or smaller) is **not** considered as OE. Ordnance and explosives further includes "explosive soil" which refers to any mixture in soil, sands, clays, etc., such that the mixture itself is explosive. Generally, 10 percent or more by weight of secondary explosives in a soil mixture is considered explosive soil.

2. PREVIOUS INVESTIGATIONS

a. **Preliminary Assessment**

The South Pacific Division, U.S. Army Corps of Engineers, Los Angeles District (CESPL), conducted a Preliminary Assessment of the Former Brown Field Bombing Range. The Findings and Determination of Eligibility (FDE), dated 6 August 1993, concluded that 46.44 acres were previously used by the US Navy as a bombing range and therefore was FUDS eligible.

TABLE 2-1
DERP FUDS PRELIMINARY ASSESSMENT PROJECTS

Project Number	DERP Category	Present Phase	Comments	Location
J09CA113001	OE	SI	Ordnance and Explosives Contamination	46.44 Acres (See Plate 1)
	HTRW	--	None Recommended	
	BD/DR	--	None Recommended	

b. Other Investigations

No other investigations were uncovered during this ASR.

3. SITE DESCRIPTION

a. Existing Land Usage

(1) The INPR states that the Baldwin Company owns the property (E-1 and E-2). This is contrary to the San Diego Tax Assessors' Office record, whose records indicate that Mr. Gregory T. Smith owns 37.01 acres with the remaining 9.43 acres belonging to the State of California (see document G-4). Between the period that the INPR was finalized and published, Mr. Smith purchased the property, an event that was unknown to the Los Angeles District.

(2) Mr. Smith's portion is on the west-side of the section line property fence. He uses it for livestock grazing and evidence of past livestock use is apparent on the site.

(3) The 9.43 acres belonging to the State of California is part of the Richard J. Donovan State Correctional Facility complex and is on the east-side of the section line fence.

(4) The only authorized entrance to the site is through the correctional facility. The San Diego Gas and Electric Company has a north-south easement that runs along the east-side of a section line property fence. Although the easement road can be used to gain entrance to the site,

the correctional facility security guards will detain anyone who is not escorted or authorized on the mesa.

(5) Table 3-1 is a summary of current land owners and site usage.

TABLE 3-1 CURRENT LAND OWNERS/USAGE					
AREA	FORMER UASGE	CURRENT OWNER	CURRENT LAND USAGE	ACREAGE	COMMENTS
A	Bomb Target	Mr. Gregory T. Smith	Livestock grazing	37.01	See doc G-3, K-1 and Plate 2
	Bomb Target	State of California	Correctional Facility	9.43	See doc G-4, K-1 and Plate 4
B	Buffer Zone 1 (Additional Lands)	Multiple Owners	Livestock grazing & Correctional Facility	187.56	See Plate 3
C	Buffer Zone 2 (Additional Lands)	Multiple Owners & State of California	Livestock grazing & Correctional Facility	276.00	See Plate 3
Original Acreage				46.44	
Added Acreage				463.56	
Total Acreage:				510.00	

b. Climatic Data

(1) The source document for the area's climate was extracted from references B-18 and B-19.

(2) The Pacific Ocean tempers the site's prevailing winds and weather resulting in hot summers and warm winters. Temperatures of freezing or below have rarely occurred since record keeping began in 1871, but hot weather, 90 degrees Fahrenheit or above, is more frequent. Dry easterly winds can blow for several days at a time, bringing temperatures in the 90's and even into the 100's. These hot winds are predominate in the fall, meaning that September and October are the months with the highest average temperatures. These high temperatures are accompanied by very low relative humidities, which often drop below 20 percent.

(3) The seasonal rainfall can fluctuate between 10 to 12 inches. Most of the precipitation, 85 percent, occurs between November through March and snow is practically unknown. In each occurrence of snowfall, only a trace or less than one half-inch was officially recorded. The measurable snow remained on the ground less than several hours.

(4) A general characteristic of spring and summer is the nighttime and early morning cloudiness and fog. Low clouds form regularly and extend into the valleys and

foothills, but they usually dissipate during the morning and the afternoons are generally clear.

c. **Topography**

(1) The source document and reference for the soil, geology, terrain and hydrology features of this site is Soil Survey, San Diego Area, California, Part II, (reference B-29).

(2) The Former Brown Field Bombing Range is situated between Johnson and O'Neal Canyons, on top of a mesa within the Otay Mesa in range 1 west, township 18 south, section 24 of the Otay Mesa Quadrangle.

(3) The target site topography is a typical mesa with a flat top and resembling a peninsula with steep sides on three of it's faces (see photographs J-2, J-11, J-15, and J-17). The 1944 image in figure 1 provides a good illustration of the topography with respect to the target area. The view is to the southwest (reference B-26).

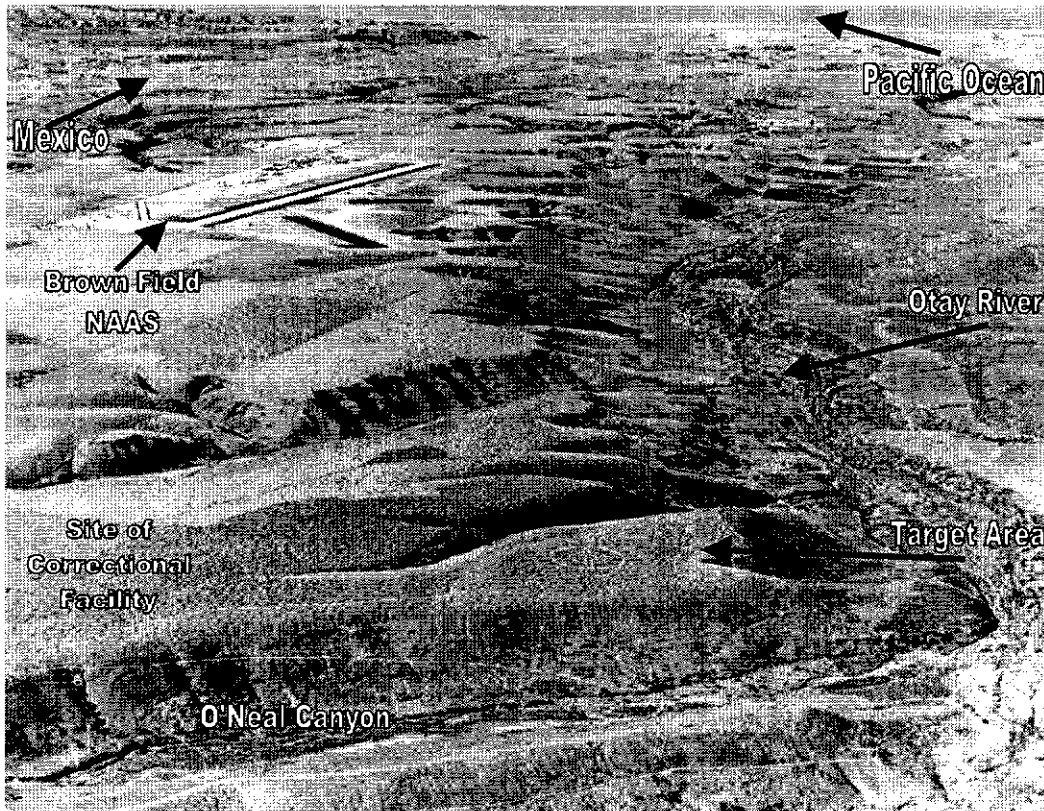


figure 1, Aerial of target and vicinity, 1944

(2) This region's elevation ranges from approximately 250 feet above sea level along the Otay River to over 500 feet on top of the mesa. The terrain is mostly sandy and dominated by low grass and shrub covered mounts rising from the surface (see photo J-17 and plate 5).

d. **Geology and Soils**

(1) The soils within the former Brown Field Bombing Range are depicted in figure 2 below.

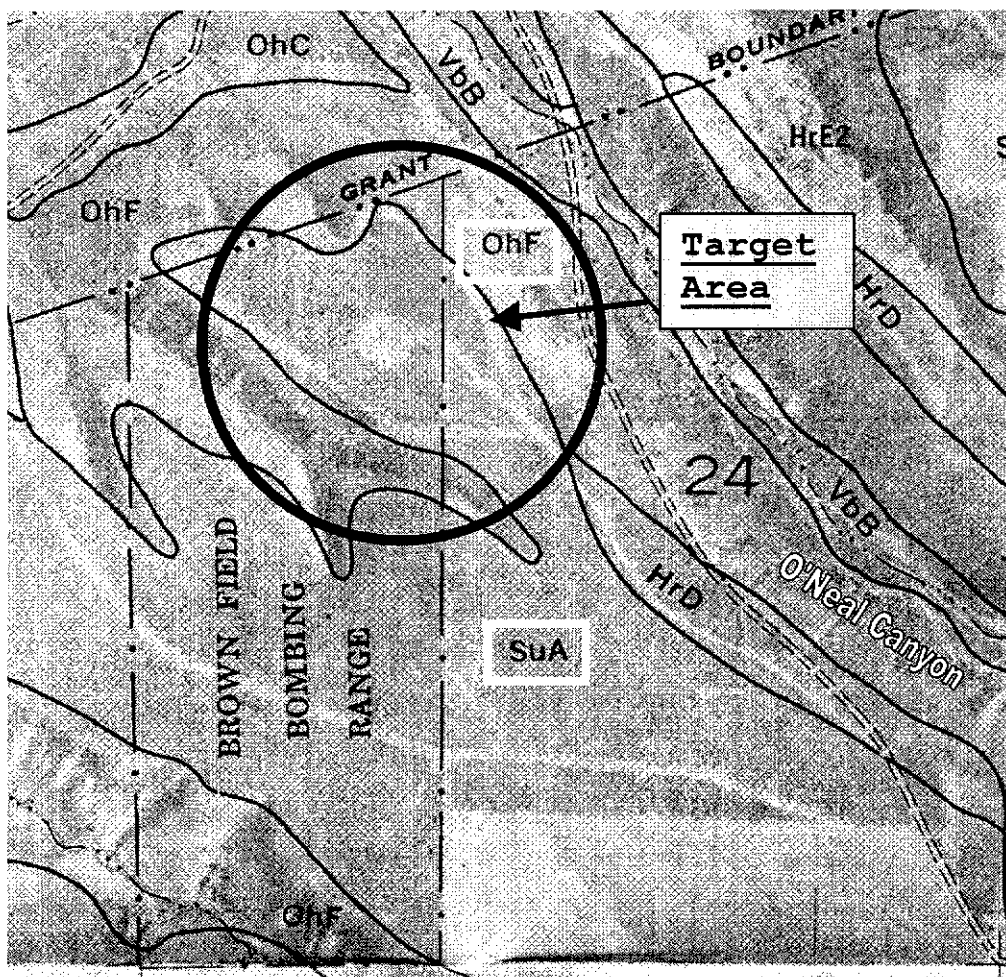


figure 2 Soil map

(2) The predominate soil on top of the mesa is classified as Stockpen gravelly clay loam (SuA), 0 to 2 percent slopes. In the adjacent canyon and washouts the soil is Olivenhain cobbly loam (OhF), 30 to 50 percent slopes. The soils within the Buffer Zone (additional lands) consist mainly of Huerhuero loam (HrD), 9 to 15 percent

slopes) and Visalia gravelly sandy loam (VvB), 2 to 5 percent slopes.

(a) SuA soils are on marine terraces and are characterized by low broad-base hummocks locally called mimamounds. The vegetation is chiefly annual and perennial grasses and forbs. SuA soils have a Moderate erodibility classification. The soil is in Group D: "Soils have very slow infiltration rate when thoroughly wetted; chiefly clays that have a high shrink-swell potential, soils that have a high permanent water table, soils that have a claypan or clay layer at or near the surface, or soils that are shallow over nearly impervious material. Rate of water transmission is very slow", which indicates a moderate soil erodibility by water.

(b) OhF soils in this area are steep and have a "Severe Erodibility" classification and are in Group D (see above for Group D explanation). As noted in figure 2 on the previous page, this soil type with its associated hydrology characteristic is chiefly encountered in the canyons adjacent to the former target site.

(c) In Hrd classified soils, low broad-based hummocks, (mimamounds), occur in undisturbed areas. The vegetation in uncultivated areas is mainly tarweed, wild oats, star-thistle, red brome, Russian-thistle and annual grasses and forbs. Hrd has an available water holding capacity of 3.5 to 5 inches with medium runoff and moderate erosion hazard.

(d) The VvB soils are about 15 percent gravel. VvB's water holding capacity is 6 to 8 inches with a slow runoff and a slight erosion hazard.

e. **Hydrology**

(1) The former target area has no well or surface water. The water must be piped in from other wells on the other mesas. Water for irrigation and domestic use on the mesas come from individual wells, which range in depth from 400 to 1100 feet.

(2) O'Neal Canyon and a ravine on the eastside carry precipitation runoff away to the Otay River, which is located to the north of the former target area (see

Plate 2 and figure 2 on previous page).

f. **Natural Resources**

The United States Department of the Interior, Fish and Wildlife service, Carlsbad Field office's database lists several species of plants and wildlife that are protected and could potentially exist within the project area. Table 3-2 represents threatened, endangered and candidate species that could occur on the site (see document F-4).

(TABLE 3-2) NATURAL AND CULTURAL RESOURCES		
RESOURCE		
CLASSIFICATION	TYPE	COMMENTS
Wildlife	Least Bell's vireo	E
	Coastal California Gnatcatcher	T
	Coastal Cactus Wren	None
	Belding's Savannah Sparrow	None
Plants	San Diego Button Celery	E
	California Orcutt Grass	E
	Otay Mesa Mint	E
	Mexican Flannelbush	PE
	Otay Tarplant	PE
	Prostrate Navarretia	PT
	Varigated Dudleya	None
	San Diego Amrosia	None
	San Diego Barrel Cactus	None
	Little Mousetail Nuttall's Scrub Oak	None
Reptiles	San Diego Horned Lizard	None
	Orange-throated Whiptail	None
Comments: E, Endangered; T, Threatened; PE, Proposed Endangered; PT, Proposed Threatened; None, Information being compiled.		

g. **Historical/Cultural Resources**

(1) The South Coastal Information Center, San Diego State College indicates that there are no known historical or cultural resources on the former target site. However, remediation efforts should be coordinated with the

State Historical Preservation Office (SHPO) to assure compliance with applicable State and Federal laws (see reference B-17).

4. HISTORICAL ORDNANCE PRESENCE

a. **Chronological Site Summary**

(1) The chronological history of the former Brown Field Bombing Range parallels the history of Brown Field NAAS. However, historical documents for the former bombing range are scarce, whereas the history of Brown Field is more readily available.

(2) In August 1940, the Navy requested acquisition of land for the establishment of an auxiliary landing field in the vicinity of San Diego, the site became Brown NAAS (G-1). The land for the bombing range was condemned later in February 1942 (G-2).

(3) In November 1942, the United States filed condemnation proceedings for acquisition of a perpetual easement over the existing roadway. Document F-1, dated December 3, 1942, contains a monthly fee of \$50.00 that was collected for the use of the 2.34 acres of roadway leading to the former bombing range.

(4) An 11th Naval District Report dated, 1947/48, describes the target as "3 concentric circles 50' - 100' and 200' radii and simulated destroyer deck. Glide angle target". The report also lists the coordinate for the range as 32°35'35"N x 117°36'25"W (see document E-5).

(5) The structure depicted in figure 3 below is from a lengthy 1960 report describing the site layout through a narrative and photographs. The structure is discussed and described as "...part of which is stationary and part of which is moveable, plus a portion, which is disassembled. This unit was no doubt constructed to be used as some type of target. It does not appear to be damaged, only partially dismantled." (Reference B-21).



figure 3, Target, 1960

(6) It is unknown when training ceased at the site, but the Navy declared the site and an easement road as excess to the needs of the Navy in August 1960 and sold the property through a quitclaim deed to United Enterprises, Inc. & Kuebler Ranch, Inc in June 1961 (G-3).

b. Review of Ordnance Related Records

(1) Extracted from "The Quarterly Supplement to History of Naval Auxiliary air Station Brown Field...:" (document E-4).

(a) July 1943, "...A fire crew was sent out regularly to the Otay bombing target to guard against fires."

(b) October 1944, "...Squadrons added rocket training...".

(c) In June 1945, a "...marked increase in the aircraft rocket program. More bombs were made available for practice after VE day and a much greater number of live drops were being made."

(d) October witness the arrival of patrol bombers such as the PB4Y and Liberators.

(e) ..."The Ordnance Department during the month was effected to a very large extent by the addition of rocket firing to the training of carrier aircraft squadrons."

(f)... "A pyrotechnic magazine was cleared and its contents replaced by rockets...".

(2) A listing of bomb targets (Reference B-14) and 11th Naval District-Post War Gunnery and Target Area Requirements (document E-5) describes and provides the coordinate for the Otay Bomb Target (B.T.).

(3) An excellent aerial view (document K-1) depicts the Otay B. T. location with respect to Brown Field NAAS. This aerial provides the only view of the target as constructed.

(4) U.S. Naval Weapons Shore Facility Drawings (documents L-1, L-2 and L-3) illustrate the layouts of generic U.S. Navy Multipurpose Target Ranges, Targets and Equipment Details. The site aerial in Document K-1 confirms the accuracy of these drawings.

c. Interviews with Site Related Personnel

(1) An interview was conducted with Mr. Dave Cavender, Correctional Facility Plant Manager, Richard J. Donovan Correctional Facility. Since the property adjacent to the correctional facility is restricted for unauthorized personal, he escorted the site inspection team (SI) onto the former site. Sometime in late November or early December 1996, a San Diego Gas and Power repair crew was doing some work near the gas line, when a backhoe struck something that gave off a loud report and emitted a cloud of white smoke. The object caused no apparent damage to either personnel or equipment. Mr. Cavender indicated that the items were approximately the same size as the practice bomb illustrated in photograph J-5 (see document I-1).

(2) Mr. Mike Burleigh is the Airport Operations Assistant for Brown Field and has been employed there for 27 years. He knew that a bombing range used to exist and that the former bombing range property is currently owned by the State as a prison. Burleigh had no knowledge of any ordnance incidents that could be associated with the former bombing range (see document I-2).

(3) Mr. Bruce Tinknell is a retired military EOD specialist who spent the major portion of his military EOD career in the southern California area. He does not recall any request for EOD support for this site (see document I-3).

(4) Mr. Gregory T. Smith purchased the 37.01 acres former bombing in March 1992. He knew that the property was a former bombing target and has only been to the property twice. He does not recall observing any ordnance on the property. He stated that the Baldwin Company has never owned this property, but does own the land to the west. The adjacent property to the east and south is owned by the State of California and used as a prison (see document I-4).

(5) Sergeant Conrad Grayson is the Chief of the San Diego County Sheriff, Criminal Investigation Unit-Bomb Squad. He has never responded to nor is he aware of any ordnance incident that can be associated with the former bombing range (see document I-5).

(6) Mr. Jeff Carle is the Chief of the Metro Arson Strike Team for San Diego, CA. His area of operations includes Brown Field and the area of the former bombing range. With 13 years on the force, he does not recall any request for assistance to the former bombing range area. He stated that surface activity is very low in that region. In general the only personnel on the former range site are either law-enforcement personnel or illegal aliens (see document I-6).

5. SITE ELIGIBILITY

a. **Confirmed Formerly Used Defense Sites**

(1) Former land usage by the Department of the Navy was previously confirmed for the entire 46.44 acre site and a 2.24 acre easement access road. The entire site remained active until 1960, when the Navy declared the site as excess, and in 1961, granted the site through a quitclaim deeds to Kuebler Ranch Inc.

(2) The easement road acreage is dropped from this report as it is absorbed into the correctional facility.

b. **Potential Formerly Used Defense Sites**

(2) The original bombing range acreage did not provide for a safety buffer zone. The revised acreage recommendation is split into two sections, an inner and outer buffer zone. The inner section contains OE that either landed short or over the target circle. The outer section reflects a high potential of OE presence. In general, all target ranges have an area that is designated as a buffer zone to capture the ordnance that misses the target. Table 5-1 on the next page summarizes the additional potential FUDS lands.

TABLE 5-1
Additional Potential FUDS Sites

Area	Apparent Area Usage	Approximate Acreage	Source of Evidence	OE Evidence	Remarks
B	Buffer Zone 1	187.56	On site inspection	Bomb and rocket debris	Debris from ordnance that missed the target.
C	Buffer Zone 2	276.00	On site inspection	None	Added lands for a buffer zone around the primary target area.
Total		463.56			

6. VISUAL SITE INSPECTION

a. **General Procedures**

(1) During the period of 22 to 25 January 1997, members of a SI team traveled to the former Bombing Range. The primary task of the site inspection was to assess OE presence or potential due to use as a former bombing and rocket range. On-site inspection was limited to non-intrusive methods in that subsurface sampling was not authorized or permitted.

(2) Prior to the on-site visit, a thorough review of all available reports, historical documents, and available reference material gathered during the archival search were reviewed to ensure awareness of potential ordnance usage and types.

(3) A site safety plan was developed and was utilized by the assessment team to ensure safety from injury during the site inspection of the facility. A briefing was conducted which stressed that military EOD personnel are the only ones authorized to handle OE (Reference B-3).

(4) The SI team coordinated with the Richard J. Donovan Correctional Facility because the only authorized access to the former site is routed through their facility. The facility required an escort for the SI team who would coordinate the team's movement while on the site. Mr. Smith, the current majority site owner, displayed a favorable attitude and did not require a real estate rights-of-entry document.

(5) For the purpose of this report, the SI team assessed the surrounding lands to determine the extent of ordnance presence. Consideration was given to the types of ordnance used and the target layout.

(6) Normally documentation of target range layouts are recorded, however site specific documents for this target could not be located. The range layout is based on several documents, a 1944 aerial (document K-1), a general range description (document F-5) along with the general layouts in a series of drawings, which are reproduced in documents L-1 through L-3. These documents assisted in reconstructing the range as it might have appeared. The two buffer zones, **Areas B** and **Area C**, were reconstructed from the results of the site inspection.

(7) One observation that the SI team noted was that there are no craters or shrapnel that would have resulted from the use of high explosive ordnance.

b. **AREA A: Target Site**

(1) **Area A** is a single area with two parts that is split along the property line. One parcel contains the property owned by Mr. Smith and the other part contains that land owned by the State of California. With the exception of the property fence, Area A remains basically as it existed whenever the Navy sold the property.

(2) Mr. Cavender guided the SI team to the site via the Gas line road that passes west of the correctional facility, through a cattle gate to the debris dump depicted in photo J-3. The general location of this dump would place it on the former easement road as it terminated at the southeast edge of the target circle. The dump contained practice bomb and rocket debris (see photos J-4, J-5 and J-6). In general, the former target has this mix of ordnance debris scattered throughout the area (see photos J-7 and J-8).

(3) The concentric circles are no longer visible from the ground. Two parallel rows of cement or gypsum blocks approximately 30 feet apart by 200 feet long lay in a general northeast to southwest direction. These are probably the remains of the destroyer deck shape that was the center of the former target (see documents K-1, L-1 and

Plate 2). The target is reproduced in document L-4 from the aerial in document K-1, the generic target layout in document L-1 and the description of the bomb target in document E-6. Several long pieces of lumber were observed along the northern row of blocks (see photo J-9). This lumber may be the remains of an apparent automatic recording or moving target that is illustrated in figure 3 on page 10 and in document K-4. The center of the target area is still defined by a cluster of blocks (see photo J-10).

(4) The former 9.43 acre target area on the eastside of the barbed wire property fence is free of any surface ordnance. The lack of surface OE on this side of the property fence was puzzling at first. Mr. Cavender explained that the correctional facility polices this side of the fence-line to deny escapees from acquiring metal objects and using them as weapons. The potential of buried ordnance is high on this side of the property line, especially since the current fence borders the edge of the former target circle.

c. AREA B: Buffer Zone 1

(1) The zone contains the near misses that were intended for **Area A**. Photograph J-11 gives a distant across the river view toward the northeast side of the mesa. O'Neal Canyon heads off to the left center of the photograph. The power line is visible extending up the side onto the top of the mesa. The bomb in photo J-12 is located at the base of the mesa about 30 feet to the left, outside photo J-12. Photograph J-13 shows the steep incline of the power easement road.

(2) The bomb debris in photos J-14 and J-15 are half way up the north-northwest side of the mesa. Basically this portion of the mesa is peppered in random fashion with practice bomb debris.

(3) The draw that extends along the western side of the mesa contains many near misses, both in the form of bomb and rocket debris (see photos J-16 and J-17). The mesa top to the south of the former target contains sparsely scattered rocket motors that extend south to the line separating **Areas B** and **C** (see photo J-18).

(4) The incident that Cavender related in his interview about an apparent practice bomb functioning (see I-1) occurred on the south edge of **Area B** along the east side of the barbed wire fence. The SI team could not locate the gas and power workers who were involved in the incident. Apparently the workers did not report the incident to their supervisors.

d. **AREA C: Buffer Zone 2**

(1) This area extends from O'Neal Canyon on the eastside, west down the Otay Valley, parallels an old firebreak in a southeast direction and then east toward the correctional facility. The land area currently owned by the State of California has been extensively reworked whenever the correctional facility was constructed. The fields surrounding the facility have been cleaned up of any surface debris to eliminate any possibility of prisoners using such debris as weapons.

(2) The SI team did not encounter any OE presence within this area.

7. EVALUATION OF ORDNANCE PRESENCE

a. **General Procedures**

(1) The site was evaluated to determine the extent of confirmed, potential, or absence of ordnance. **Confirmed** ordnance and explosive (OE) presence is based on verifiable historical evidence or direct witness of OE items (with explosive components and/or inert debris/fragments) since site closure. Verifiable historical record evidence is based on OE items actually seen on site since site closure and authenticated by: historical records (Archive Records, Preliminary Assessment Reports, Site Investigation Reports), local fire departments and law enforcement agencies/bomb squads, military Explosive Ordnance Disposal (EOD) Units, newspaper articles, photographs, or maps. Direct witness of OE items consists of the site inspection team(s) and other credible witnesses as determined by the ASR Reach Team Leader (landowners, workers on-site, soldiers who served there, etc.) verifying that they have seen OE presence on the surface or subsurface since site closure.

(2) **Potential** ordnance presence is based on a lack of confirmed ordnance presence. Potential ordnance presence is inferred from records or indirect witness. Inference from historical records is based on no OE items actually seen on site since site closure and would include documentation (records, aerial photographs, maps) indicating possible OE presence derived from common practice in production, storage, use, or disposal at that time and from records indication known OE usage. Potential ordnance presence derived from common practice in production, storage, use, or disposal at that time and from records indicting known OE usage. Potential ordnance presence could also be based upon indirect witness or from present day site features. Additional field data is needed to confirm potential ordnance sub-sites.

(3) **Uncontaminated** ordnance sub-sites are based upon a lack of confirmed or potential ordnance evidence. There is no reasonable evidence, either direct or inferred, to suggest present day ordnance presence. Additional field data is not needed to assess uncontaminated ordnance sub-sites.

b. **AREA A: Target Site**

Area A is considered a **confirmed** OE area. This is based upon its prior use, historical documents and direct witness of OE items by the site inspection team.

c. **AREA B: Buffer Zone 1**

Area B is considered a **confirmed** OE area. This is based on its apparent former usage as an undocumented buffer area and the direct witness of OE items by the site inspection team.

d. **AREA C: Buffer Zone 2**

Area C is considered a **potential** OE area. This is based upon its location, surrounding Areas A and B, its apparent former usage as an undocumented buffer zone and interviews with law enforcement personnel.

8. SITE ORDNANCE TECHNICAL DATA

a. **End Item Technical Data**

(1) There is scant historical data on exact types of ordnance used at the former Brown Field Bombing Range. However, based on document E-4 and the site inspection by the SI team, the types of ordnance used have been confirmed.

(2) Tables 8-1, below, and 8-2, on the next page, represent a list of confirmed ordnance items and their fillers. These items are known to have been or potentially used on this site. The model numbers used to delineate potential ordnance types are based on common models that existed during the time frame the site was active.

TABLE 8-1 AMMUNITION USED AND EXPLOSIVE/CHEMICAL FILLER			
ITEM	TYPE/MODEL	FILLER/WEIGHT	FUZE
Bomb, Practice, 3 lb w/signal	AN-MK 23 AN-MK 4	Inert (cast iron) 10 gm zinc oxide 3 gm black powder Titanium Tetrachloride	N/A
Bomb, Practice, 3 lb w/signal	AN-MK 5 AN-MK 4	Inert (zinc alloy) see above	N/A
Bomb, Practice, 100 lb w/spotting charge	Mk 15 Mk 6 Mod 0	Inert (sand filled) 2 lb. black powder	N/A
Bomb, Practice, 100 lb w/spotting charge	M75 M1A1	Inert (Iron Oxide or sand filled) Fuze and Burster	N/A
Rocket, 2.25-inch A.R. Practice	Mk 10 or 11	Inert warhead, motor contains 1.75 lb of Ballistite	N/A

b. Chemical Data of Ordnance Fillers

TABLE 8-2 Chemical Data of Ordnance Fillers		
EXPLOSIVE MATERIAL	SYNONYMS	CHEMICAL COMPOUNDS
Black powder 74% potassium nitrate 11% sulfur 16% charcoal	Saltpeter; Niter	KNO ₃ S C
Ballistite	(see DB powder)	
Double-base (DB) powder 60% Nitrocellulose 39% Nitroglycerin	Ballistite Guncotton; Pyroxylin	[C ₆ H ₉ O ₅ (NO ₂) ₃] _n CH ₂ NO ₃ CHNO ₃ CH ₂ NO ₃

9. OTHER ENVIRONMENTAL HAZARDS

a. **Hazardous, Toxic, and Radiological Waste**

There is no visible evidence of any hazardous, toxic, or radiological waste at the former Brown Field Bombing Range.

b. **Building Demolition/Debris Removal (BD/DR)**

The one original structure that is discussed on page 10 as a possible target has been removed. This site has no requirement for further BD/DR.

ORDNANCE AND EXPLOSIVES
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APPENDIX A

REFERENCE SOURCES

**APPENDIX A
REFERENCE SOURCES**

Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense			
Headquarters			
Defense Library on Disk Pentagon Room 1A518 Washington, DC 20310-6080	Computer Search (DLOD)	(703) 697-4658	No information found on this site.
Defense Technical Information Center 8725 John J. Kingman Road, Suite 0944 Ft. Belvoir, VA 22060-6218	Computer Search (DTIC)	(703) 767-8274	No information found on this site.
Department of Defense Explosives Safety Board (DDESB) 2461 Eisenhower Avenue Alexandria, VA 22331-0600	Computer Search (DDESB)	(703) 325-8624	No information found on this site.
U. S. Army			
Commander 52nd Ord Gp (EOD) Fort Gillem, GA 30050-5000	SGM Cushman	(404) 363-5978 Fax 363-3338	No information found on this site.
Commander 710th Ord Co (EOD) Navy Sub Base, PO Box 6376 San Diego, CA 92166-0376	SGT Thompson CPT Fiske	(619) 553-8500 Fax 553-8095	No information found on this site.
Aberdeen Proving Ground Ordnance Museum Aberdeen Proving Ground, MD 21005	Roger Godin	298-3602	Source of old ordnance and Navy publications.
Center of Military History Attn: DSMH-RAS 1099 14th St. N.W. Washington, DC 20005-3402	Staff	(202) 761-5416	See Appendix B, Section II, Parts A and B.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense (Continued)			
U.S. Army (Continued)			
Defense Logistics Studies Information Exchange US Army Logistics Mgmt College Ft. Lee, VA 23801	Computer Search (DLSIE)	(804) 734-4007	No information found on this site.
DMACSC, Philadelphia Depot 5801 Tabor Ave. Philadelphia, CA 19120-5095	Staff	(800) 826-0342 (301) 227-2495	Aeronautical charts.
IOC Historical Office AMSIO-EAH Bldg 390 Rock Island Arsenal Rock Island, IL 61299	Tom Slattery	(309) 794-1450	Had no information on this site.
Rock Island Arsenal Museum Rock Island Arsenal Rock Island, IL 61299	Chris Leinicke	(309) 794-3518	Technical manuals
U.S. Army Chemical School Fisher Library Building 1081 Ft. McClellan, AL 36205-5000	Dick Pastorett	(205) 848-4414	No information found on this site.
U.S. Army Technical Center For Explosives Safety Library Attn: SIOAC-ESM Savanna, IL 61074	Staff	(815) 273-8772	Reference sources.
U.S. Military History Institute Archives Branch Carlisle Barracks Carlisle, PA 17013	Richard Sommers	(717) 245-3601	Had no information on this site.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense (Continued)			
U.S. Army (Continued)			
U.S. Military History Institute Library Carlisle Barracks, Bldg. 22 Carlisle, PA 17013-5008	John Slonaker Dennis Vetock	(717) 245-3611 FAX 242-4370	Had no information on Navy installations.
U.S. Military History Institute Photo Archives Carlisle Barracks Carlisle, PA 17013	Mike Winey	(717) 245-3434	Had no information on this site.
US Army Chemical & Biological Defense Command Aberdeen Proving Ground, MD 21010-5423	Kathleen Ciolfi	(410) 679-4430	Review of CBDCOM former site listing provided no evidence of chemical use on this site.
USACE, Los Angeles District Real Estate Division 911 Wilshire Boulevard Los Angeles, CA 90017-3401	Delores Henderson	(213) 452-3164	Real estate files.
USACE, Los Angeles District 911 Wilshire Boulevard Los Angeles, CA 90017-3401	Deborah Castens Jeff Armentrout	(213) (214) 452-3719/ 3720	Real estate files.
USACE, Los Angeles District 911 Wilshire Boulevard Los Angeles, CA 90017-3401	Trudy Knutson	(213) 452-3990	Trudy is the program manager for FUDS.
USACE, Office of History 7701 Telegraph Road Alexandria, VA 22310-3865	Staff Dr. Martin Gordon	(703) 355-3558	See Appendix B, Section II, Parts A and B.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense (Continued)			
U.S. Army (Continued)			
USACE, San Diego Project Office 10845 Ranch Bernardo Road Suite 204 Ranch Bernardo, CA 92127	James B. Walker	(619) 674- 6769/6765	No additional information on this site.
U.S. Air Force			
Air Force Historical Research Agency 600 Chennault Circle Maxwell AFB, AL 36112-6424	Thomas Dean	(205) 953-6884	(IRIS) On-line computer search. No information found on this site.
01-A, USAF Environmental Technical Applications Center 151 Patton Ave, Rm 120 Ashville, NC 28801	Janet Wall	(704) 271-4404	Received local climatological data (LCD) annual summary for area.
U.S. Navy			
COMEODGRU ONE Coronado Island San Diego, CA 92155	Gunner Gary Burns LTCMDR Peterson	(619) 437-0715/ 0723	No information found on this site.
Command Museum Marine Corps Air Station, El Toro Santa Ana, CA	Fabian Jiroux	(714) 726-4380	Had no information on this site.
JEODU Marine Corps Air Station Yuma, AZ 85639	CPT Peterlick	(520) 341-2788/ 2303 Fax 341-2112	No additional information for this site.
Marine Corps Historical Center Building 58 Washington Navy Yard Washington, DC 20374	Staff	(202) 433-3483	See Appendix B, Section II, Parts A and B.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense (Continued)			
U.S. Navy (continued)			
MCRD Museum Building 26 San Diego, CA 92140	MAJ Bruce Norton (Ret)	(619) 524-6719	Provided referral
Miramar Naval Air Station Attn: Roger Hillhouse-RH187 45249 Miramar Way San Diego, CA 92145-5005	Roger Hillhouse	(619) 537-1102	No information found on this site.
NAS North Island Natural Resources Office San Diego, CA 92135	Andy Yatsko	(619) 545-1131	No information found on this site.
NAS North Island Staff Civil Engineer Office San Diego, CA 92135	Dave Brown	(619) (620) 545-1111/ 1113	No information found on this site.
Naval Air Station Library, North Island PO Box 357081 San Diego, CA 92135-7081	Sharon Nelson	(619) 545-8230 Fax 545-8036	No information found on this site.
Naval Construction Battalion Center Code 1581B, Civil Engineering Support Office Building 20, 1023rd Avenue Port Hueneme, CA 93043-4301	Bob Brickey Cliff Ledderer	(805) 982-5593	No information found on this site.
Naval Construction Battalion Center Naval Facilities Engineering Service Center Code 72, Technical Information Center 1100 1023rd Avenue Port Hueneme, CA 93043-4370	Josephine Walsh	(805) 982-9110	No information found on this site.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense (Continued)			
U.S. Navy (continued)			
Naval Construction Bn. Center Code 10H, NAVFAC Historian 621 Pleasant Valley Road Port Hueneme, CA 93043-4300	Dr. Vincent Transano Carol Marsh	(805) 982-5913	Site Photographs
Naval Facility Engineering Command, SW Division 1220 Pacific Hwy, Bldg 127 San Diego, CA 92132	Lowell Martin Daniel Huey	(619) 532-2991	Had no information on this site.
Naval Facility Engineering Command, SW Division 1220 Pacific Hwy. Bldg 131 San Diego, CA 92132	Mike Gonzales	(619) 532-3178	No information found on this site.
Naval Facility Engineering Command, SW Division 1220 Pacific Hwy, Bldg 127 San Diego, CA 92132	Tom Phelps Chriss Maves	(619) 532-1169/ 3769 Fax 522-1135	No information found on this site.
Naval Facility Engineering Command, SW Division 1220 Pacific Hwy, Bldg 127 San Diego, CA 92132	Mike Stroud	(619) 532-2319	Aerial photos of the site.
Naval Facility Engineering Command, SW Division 1220 Pacific Hwy, Bldg 127 San Diego, CA 92132	Bill Fisher	(619) 532-1488	No information found on this site.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Defense (Continued)			
U.S. Navy (continued)			
NAVEODTECHDIV Technical Library 2008 Stump Neck Road Indian Head, MD 20640-5070	Betty Arbogast Dawn Risko	(301) 743-6834	Obsolete Navy publications. Valuable addition to Navy sources.
Navy Historical Center Building 57 Washington Naval Yard Washington, DC 20374	Staff	(202) 433-3171	See Appendix B, Section II, Parts A and B.
Navy Historical Center Technical Library Washington Navy Yard Washington, DC 20374	Mark Wertheiner Curator	(202) 433-3607	Obsolete Navy pubs. Valuable addition to Navy sources.
U.S. Naval Facilities Engineering Command Code 14B, Room 10N59 200 Stovall Street Alexandria, VA 22332-2300	Charlie Cox Jack Kane	(703) 325-7342 Fax 325-2839	No information found on this site.
U.S. Navy Directive and Records Management Code CNO NO9B35 Washington Navy Yard, Bldg 166 901 M Street SE Washington, DC 20374	LT Gilbert Records Officer	(202) 433-4194 Fax 433-7520	Historical records

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
National Archives and Federal Records Center			
NARA, Federal Records Center- San Francisco 1000 Commodore Drive San Bruno, CA 94066	Barbara Bepler	(415) 876-9001/ 9006 Fax 876-0920	See Appendix B, Section III, Parts A and B.
NARA, Fedral Records Center- Los Angeles 24000 Avila Road Laguna Niguel, CA 92656	Greg Pearman	(714) 360-2626 Fax 643-4500	See Appendix B, Section III, Parts A and B.
NARA, Pacific Sierra Region 1000 Commodore Drive San Bruno, CA 94066	Lisa Miller	(415) 876-9009 Fax 876-9233	See Appendix B, Section III, Parts A and B.
NARA, Pacific Southwest Region 24000 Avila Road Laguna Niguel, CA 92656	Suzanne Dewberry	(714) 360-2641	See Appendix B, Section III, Parts A and B.
National Archives Archives II Cartographic/Architectural) (Branch 8601 Adelphi Rd College Pk, MD 20740	Staff	(301) 713-7040	See Appendix B, Section II, Parts A and B.
National Archives Archives I (Modern Military) Pennsylvania Avenue & 7th Washington, DC 20408	Staff	(202) 501-5385	See Appendix B, Section II, Parts A and B.
National Archives Archives II (Civil Reference Branch) 8601 Adelphi Rd College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B.

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GOVERNMENT AGENCIES			
FEDERAL			
National Archives (continued)			
National Archives Archives II (Still Picture Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-6660	See Appendix B, Section II, Parts A and B.
National Archives Archives II (Motion Picture Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7060	See Appendix B, Section II, Parts A and B.
National Archives Archives II (Textual Branch) 8601 Adelphi Road College Park, MD 20740	Staff	(301) 713-7250	See Appendix B, Section II, Parts A and B.
National Archives Archives I (Navy) Pennsylvania Ave. & 7th Washington, DC 20408	Staff	(202) 501-5671	See Appendix B, Section II, Parts A and B.
National Archives Archives I (Old Military) Pennsylvania Ave. & 7th Washington, DC 20408	Staff	(202) 501-5390	See Appendix B, Section II, Parts A and B.
National Archives, Suitland Branch 4205 Suitland Road (Civil And Military) Suitland, MD 20409	Staff	(301) 457-7190	See Appendix B, Section II, Parts A and B.
National Personnel Records Center 9700 Page Ave. St Louis, MO 63132	Bill Siebert Wilson Sullivan	(314) 538-4085	See Appendix B, Section III, Parts A and B.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Library of Congress			
Library Of Congress Washington, DC 20540	Staff	(202) 707-5522	See Appendix B, Section II, Parts A and B.
Smithsonian Institution			
Smithsonian Institution Historical Research Division Washington, DC 20540	Staff Dan Hagedorn Tim Cronan	(202) 357-3133	See Appendix B, Section II, Parts A and B.
Department of Agriculture			
Consolidated Farm Service Agency 45-691 Monroe, Suite 4 Indio, CA 92201	Remu Khilnani Teja Salman	(619) 347-3675	Aerial photos for San Diego County.
USDA Aerial Photography Field Office P.O. Box 30010 2222 West 2300 South Salt Lake City, UT 84130-0010	Sherrie Holyoak	(801) 975-3503	Aerial photos after 1956
USDA, Natural Resources Conservation Service 332 South Juniper, Suite 110 Escindido, CA 92025	Becky Watts Jason Jackson	(619) 745-2061	Soil survey for San Diego County.
Department of Commerce			
NGS, Info Services, NOAA N/NGS 12, SSMC#, Station 9244 1315 E-W Highway Silver Spring, MD 20920-3282	Joan Rikon	(301) 443-8601 Fax 713-4172	Source of Coastal aerial photographs, old and new.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
National Archives (continued)			
NOAA National Climatic Data Center Federal Bldg Ashville, NC 28801	Yolanda Goosch Sam McCowan	(704) 271-4272	Local climatological data reports.
Department of Interior			
Bureau Of Land Management California Desert District 6221 Box Springs Boulevard Riverside, CA 92507-0714	Manuela Johnson	(909) 697-5220 Fax 697-5299	No information on this site.
Bureau Of Land Management California Desert District 6221 Box Springs Boulevard Riverside, CA 92507-0714	John Key	(909) 697-5383 Fax 697-5299	No information on this site.
Bureau of Land Management Palm Springs Resource Center 63500 Garnet Avenue North Palm Springs, CA 922258-2000	Mike Mitchell	(619) 251-4800 Fax 251-4899	No information found on this site.
Department of Interior U.S. Geological Survey EROS Data Center Sioux Falls, SD 57198	Staff	(605) 594-6151 Fax 594-6589	Aerial photos
Dept of Interior Geological Survey Reston, VA 22092	Dave Keys	(703) 648-5956 Fax 648-5548	No information found on this site.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
FEDERAL			
Department of Interior (Continued)			
U.S. Fish And Wildlife Service 2730 Loker Ave. West Carlsbad, CA 92008	John Hanlon	(619) 431-9440	No information found on this site.
U.S. Geological Survey Earth Science Information Center (ESIC) 1400 Independence Road Rolla, MO 65401	Staff	(573) 308-3500 Fax 308-3615	No information found on this site.
U.S. Geological Survey, (ESIC) Box 25046, Bldg. 810 Denver Federal Center Denver, CO 80225	Paula Erickson Steve Reiter	(303) 202-4200 Fax 202-4188	No information found on this site.
USGS Branch Of Distribution Box 25286, Bldg 810 Denver Federal Center Denver, CO 80225	Staff	(303) 203-4700 Fax 203-4693	Source of topographical maps
STATE			
Anza-Borrego Desert State Park 200 Palm Canyon Drive Borrego Springs, CA 92004	Fred Jee	(619) 767-5311 FAX 767-3427	No information on the site.
California State Archives 1020 O St. Sacramento, CA 95814	Tony Hoffmann	(916) 653-2246	No information found on this site.
California State Library Library And Courts Bldg. 914 Capital Mall, Sacramento, CA 94237-0001	John Gonzales	(916) 654-0176 Fax 654-8777	No information found on this site.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
STATE (Continued)			
Richard J. Donavan Correctional Facility 480 Alta Road San Diego, CA 92179	Lt Marion Daniels Dave Cavender	(619) 661- 6500/7802	Dave Cavender provided SI team escort for site inspection Interview I-1
San Diego State University Government Documents/Maps Section 5300 Campaline Dr. San Diego, CA 92182-0511	Bruce Harley	(619) 594-5832	No information found on this site.
San Diego State University Reference Branch 5300 Campanile Dr. San Diego, CA 92182-0511	Karen Sharp	(619) 594-6724	No information on this site.
SHPO, South Coastal Information Center Social Sciences Research Laboratory San Diego State University San Diego, CA 92182-4537	Jan Culbert	(619) 594-5682	memo ON archeological and historical information on the site.
University Of California P.O. Box 19557 Irvine, CA 92110	Reference Desk	(714) 824-6836	Had no information on this site.
University Of California Government Documents Dept. P.O. Box 19557 Irvine, CA 92110	Jeff Schneidewind Kay Collins	(714) 824-7234	No information found on this site.
University of California Archives P.O. Box 19557 Irvine, CA 92713	Mary Ellen Goddard	(714) 824-7193	Provided referrals.

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
LOCAL			
Brown Field Municipal Airport San Diego County San Diego, CA 92173	Mike Tussey Marty Mumert Mike Burleigh	(619) 424-0455	Mike Burleigh, Interview I-2
Chula Vista Public Library 365 4th and F Street Chula Vista, CA 91910-2697	Reference Desk	(619) 691-5168	No information on this site.
San Diego County Assessor 1600 Pacific Hwy. Room 203 San Diego, CA 92101	Steve Berggren Ron Graham	(619) 531-6468	Plat maps for San Diego County.
San Diego County Library Imperial Beach Branch 810 Imperial Beach Boulevard Imperial Beach, CA 91932-2798	JoAnn Reichert	(619) 424-6981 Fax 424-8743	No information on this site.
San Diego County Library Bldg. 15 5555 Overland Avenue San Diego, CA 92123-1296	Staff	(619) 694-2414	No information found on this site.
San Diego County Planning and Land Use 5201 Ruffin Road, Suite D San Diego, CA 92123	Gary Stockton	(619) 694-3871	Historical maps for the County.
San Diego County Recorder and Clerk 1600 Pacific Hwy. Room 260 San Diego, CA 92101	Records Information	(619) 237-0502	Deeds for San Diego County.
San Diego County Sheriff Criminal Investigation Unit-Bomb Squad 5255 Mt Etna Drive San Diego, CA 92117	Sgt Conrad Grayson	(619) 467- 4579/4660 Fax 467-4570	Interview I-5

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Organization	Name	Telephone	Nature of Support
GOVERNMENT AGENCIES			
LOCAL (Continued)			
San Diego Public Library California Room 820 East Street San Diego, CA 92101-6478	Blair Odinis	(619) 236-5834	No information on this site.
San Diego Public Library 820 East Street San Diego, CA 92101-6478	Librarian	(619) 236-5820	Provided referrals.
University of San Diego Helen K. and James Copley Library Alcala Park San Diego, CA 94040	Librarian	(619) 260-4799	Had no information on the sites. Provided referrals.
Jeff Carle San Diego County Fire Department San Diego, CA 92117	Chief, Metro Arson Strike Team	(619) 236-6815	Interview I-6
NON-GOVERNMENT AGENCIES			
NATIONAL			
Knight-Ridder Information Inc. 2440 El Camino Real Mountain View, CA 94040	Computer Search	(800) 334-2564	No information found on this site.
Northern Illinois Library System 4034 East State St. Rockford, IL 61108	Computer Search (NILS)	(815) 229-0330	No information found on this site.
Online Computer Library Center 6565 Frantz Road Dublin, OH 43017-3395	Computer Search (OCLC)	(800) 848-5878	No information found on this site.

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Organization	Name	Telephone	Nature of Support
NON-GOVERNMENT AGENCIES (Continued)			
NATIONAL (Continued)			
Council On America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Publication	(800) 396-4693	No information on this site.
Council On America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Publication	(800) 396-4693	No information on this site.
Sirsi Corporation Scientific and Technical Information Library 689 Discovery Dr Huntsville, AL 35806	Computer Search (STILAS)	(205) 922-9820	No information found on this site.
NON-GOVERNMENT AGENCIES			
LOCAL			
Bruce Tinknell 8786 Betelgeufe Way San Diego, CA 92126	Retired EOD	(619) 578-9901	Interview I-3
Gregory T. Smith P.O. Box 2786 Rancho Santa Fe, CA 92067-2786	Current Landowner	(619) 756-0107/ 0225	Current owner of 37.01 acres of former site Interview I-4
Heritage Press 102 West 6th Avenue Escondido, CA 92025	Meredith Vezina	(619) 735-9313 Fax 432-9043	No information on this site.

APPENDIX A
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Organization	Name	Telephone	Nature of Support
NON-GOVERNMENT AGENCIES (Continued)			
LOCAL			
Imperial Valley Historical Society Pioneers Museum 323 East Aten Road Imperial, CA 92251	Lynn Bogdan	(619) 352-1165 Fax 356-2216 HOME (619) 356- 4006	No information on this site.
San Diego Historical Society Archives 1649 El Prado, Balboa Park San Diego, CA 92138	Sally West	(619) 232-6203 Fax 232-6297	No information on this site.

ORDNANCE AND EXPLOSIVES
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FORMER BROWN FIELD BOMBING RANGE
SAN DIEGO COUNTY, CALIFORNIA
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APPENDIX B

REFERENCES AND ABSTRACTS

BIBLIOGRAPHIES

Table of Contents

Section I:	Bibliography
Section II:	National Capitol Region Records Search
	Part A: Positive Findings
	Part B: Negative Findings
Section III:	Regional National Archive Findings
	Part A: Positive Findings
	Part B: Negative Findings

APPENDIX B

BIBLIOGRAPHIES
SECTION I

B-1 Army Regulation (AR) 200-1, Environmental Quality, Environmental Protection and Enhancement, Department of the Army, 23 April 1990. (Not included in this ASR).

B-2 CEHND 1105-3-9, U.S. Army Corps of Engineers, Huntsville Division, 10 August 1992, US Army Corps of Engineers, Management Plan for Ordnance and Explosive Waste (OE) Mandatory Center of Expertise (MCX and Design Center. (Not included in this ASR).

B-3 Site Safety Plan for OE Investigations, U.S. Army Corps of Engineers, Rock Island District, dated January 1997, w/Appendix A-176. (Not included in this ASR).

B-4 Site Survey Summary Sheet, DERPS FUDS OE Site Number J09CA113001, USACE Los Angeles District, 6 August 1993 (E-1).

B-5 Findings and Determination of Eligibility, DERP FUDS OE Site Number J09CA113001, USACE Los Angeles District, 6 August 1993 (E-2).

B-6 Project Summary Sheet, DERPS FUDS OE Project Site Number J09CA113001, USACE Los Angeles District, 6 August 1993 (E-3).

B-7 U.S.N.B.D., United States Bombs and Fuzes, Pyrotechnics, US Naval Bomb Disposal School, 1 September 1945 (D-1).

B-8 Aircraft Bombs, Fuzes and Associated Components, NAVWEPS OP 2216 Vol 1, The Chief of the Bureau of Naval Weapons, 1 August 1960 (D-2).

B-9 Ammunition Inspection Guide, TM 9-1904, War Department Technical Manual, 2 March 1944 (D-3).

B-10 U.S. Explosive Ordnance, OP 1664 Vol 1, Bureau of Ordnance Publication, 28 May 19347 (D-5).

B-11 Rockets, Army Technical Manual, TM 9-1950, Department of the Army, July 1950 (D-6).

B-12 Quarterly Supplements to History of Naval Auxiliary Air Station, Brown Field, Chula Vista, California, 1 June - 1 September 1945 (E-4).

B-13 Compilation of Naval Air Targets, Gunnery and Bombing Areas, Navy Department, Office of the Chief of Naval Operations, Washington, DC, date 1947/48? (E-5).

B-14 Listing of Bomb Targets, Location, Type of Target, Type of Bomb Run, and Type of Ordnance Listing of Bomb Targets, Location, Type of Target, Type of Bomb Run, and Type of Ordnance, US Navy Publication, ComAirSCCalSec, WSF C/L No. 20-44, 1950.

B-15 Memorandum from the Department of Justice, Washington, DC, to Chief, Bureau of Yards and Docks, subject is condemnation proceeding and use of access road to Otay Mesa Bombing Target, San Diego, California, December 3, 1942 (F-1).

B-16 Excerpts from the 1992 Annual Report on the Status of California State Listed "Threatened and Endangered Animals and Plants", State of California, Department of Fish and Game, Sacramento, CA 95814 (F-2).

B-17 Letter to Mr. Larry Dauphin, USADACS, Savanna, IL, from South Coastal Information Center, Social Science Research Laboratory, College of Arts and Letters, San Diego State University, San Diego, CA, "Historical sites within the site area of Brown Field", October 8, 1996 (F-3).

B-18 Climate of California, Climatography of the United States No. 60, National Oceanic and Atmospheric Administration, Asheville, NC, June 1982.

B-19 1993 Local Climatological Data, Annual Summary with Comparative Data, San Diego, CA, National Oceanic and Atmospheric Administration, Asheville, NC

B-20 Letter to Mr. Larry Dauphin, USADACS, Savanna, IL from United States Department of the Interior, Fish and Wildlife Service, Ecological Services, Carlsbad Field Office, Carlsbad, CA, "Request for Threatened, Endangered or Proposed species for the Brown Field Bombing Range..(1-6-97-SDP-15), November 26, 1996 (F-4).

B-21 Land Appraisal Report, Including Photographs and Map, Brown Field Bombing Range, 1 November 1960, Entry 5: Real Property, Range 291, Archives II, Box 35 (K-4).

B-22 Memorandum with 4 Endorsements, "Acquisition of auxiliary land fields in the vicinity of San Diego, California", August 15, 1940 (G-1).

B-23 Otay Mesa Bombing Target Site, Valuation Analysis and Conclusions, Appraisal Section, Home Owners' Loan Corporation, January 28, 1942.

B-24 GSA Public Buildings Service, Acquisition and Disposal Division, San Francisco, CA "Report of Excess Property, for Otay Mesa Bombing Target #32, Naval Auxiliary Air Station, Brown Field, Chula Vista, CA (G-2).

B-24 GSA Real Property Transaction Advice No. 213793, June 1, 1961, with Quitclaim Deed, RG 291, E5 Box 3J, Archive II (G-3).

B-25 1996 San Diego Assessor's Map for Parcel Numbers 646-040-11 and 646-040-20 with Tax assessment, San Diego County, CA (G-4).

B-26 Aerial Photograph, "SD33175" dated 5 Jan 1944, which depicts the Otay Mesa area with Brown Field NAAS in the background, NARA, Pacific Southwest Region, Laguna Niguel, CA, RG 71, Box 112 (K-1).

B-27 1960 aerial photograph of Otay Mesa depicting the general outline of the former bomb target, San Diego County Planning and Land Use, San Diego, CA (K-2).

B-28 1969 aerial photograph of the entire mesa area adjacent to Brown Field, U.S. Geological Survey, Eros Data Center, Sioux Falls, SD (K-3).

B-29 Soil Survey, San Diego Area, California, USDA Natural Resources Conservation Service, Escondido, CA, 1973.

B-30 "Multipurpose Target Range, Target and Equipment Details", U.S. Naval Drawings, 4/2/65, (L-1).

B-31 B-31 U.S. Naval Drawing "Strafing Range", dated 4/2/65 (L-2).

B-32 U.S. Naval Drawing "Multipurpose Target Range, Facility Details", dated 2/1/61 (L-3).

B-33 Survey of Existing Road to Otay Bombing Target, Naval Operating Base San Diego Air Station, 7-15-42, RG 121, Box 15, Archive II (L-6).

SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS
BROWN FIELD BOMBING RANGE, CA

SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

BROWN FIELD BOMBING RANGE, CA

***LIBRARY OF CONGRESS - GEOGRAPHY AND MAP DIVISION
WASHINGTON, DC***

United States Department of the Interior

Geological Survey, Otay Mesa Quadrangle, 1955
Geological Survey Map of Otay Mesa

***NARA - ARCHIVES II - TEXTUAL BRANCH
COLLEGE PARK, MD***

RG 18 (Records of the Army Air Corps)

Entry 294: Air Adjutant General's Security Classified Decimal File, October
1942 - 1944

Box 869

Extract, Civil and Military Airports, Department of Commerce, Civil
Aeronautics Administration, Brown Field Bombing Range, 1 December
1942

Entry 294: Air Adjutant General's Security Classified Decimal File, October
1942 - 1944

Box 869

Interdepartmental Air Traffic Control Board Report Relative to Proposed
Joint Use of Otay Mesa Field by Fourth Fighter Command and the Navy,
29 December 1942

RG 71 (Records of the Bureau of Yards and Docks)

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 111

Rolled Map, Leased San Diego Naval Air Station Auxiliary Landing
Fields, Brown Field Bombing Range, 30 June 1939

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 112

Correspondence and Chart Relative to Real Estate Acquisition, Auxiliary Landing Field, Otay Mesa, Brown Field Bombing Range, 15 August - 7 September 1940

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 113

Correspondence, Case Reports, and Legal Instruments Relative to Real Estate Acquisition in Connection with Otay Mesa Landing Field, Brown Field Bombing Range, 18 December 1940 - 24 November 1941

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 113

Correspondence Relative to Real Estate Acquisition in Connection with Access Road to Otay Mesa Bombing Target, Brown Field Bombing Range, 1942 - 1944

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 113

Correspondence Relative to Real Estate Acquisition in Connection with Drainage Improvements, Otay Mesa Field, Brown Field Bombing Range, 14 June 1946 - 14 February 1947

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 113

Memorandum Relative to Use of Brown Field for Jet Training and Field Carrier Landing Practice, Brown Field Bombing Range, 1 December 1948

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 114

Correspondence, Appraisal, and Maps Relative to Real Estate Acquisition in Connection with Otay Mesa Outlying Field Runway Expansion, Brown Field Bombing Range, 12 May 1942 - 18 February 1943

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 114

Memorandum Relative to Funds for Proposed Expansion of Otay Mesa Landing Field, Including Bomb Storage Facilities, Brown Field Bombing Range, 8 July 1942

Entry 1001: Naval Property Case Files, 1941 - 1958

Box 114

Correspondence and Legal Instruments Relative to Real Estate Acquisition
in Connection with Expansion of Otay Mesa Landing Field, Brown Field
Bombing Range, 12 August - 6 September 1943

RG 127 (Records of the United States Marine Corps)

Entry 18A: Office of the Commandant, General Correspondence, January 1939 -
June 1950

Box 1983

Compilation of Naval Air Targets, Gunnery, and Bombing Areas, Post-
WW II, Brown Field Bombing Range

RG 291 (Records of the Federal Property Resources Service)

Entry 5: Real Property case Files, 1962

Box 35

Rolled Map, Brown Field Bombing Range, Otay Mesa, 1955

Entry 5: Real Property Case Files, 1962

Box 35

Correspondence, Legal Instrument, and Reports Relative to Real Property
Disposal, Including Details on Decontamination Status and Site Usage,
Brown Field Bombing Range, 23 June 1960 - 29 June 1961

Entry 5: Real Property Case Files, 1962

Box 35

Land Appraisal Report, Including Photographs and Map, Brown Field
Bombing Range, 1 November 1960

***NARA - ARCHIVES II - STILL PICTURES BRANCH
COLLEGE PARK, MD***

RG 80 - G (General Records of the Department of the Navy, 1798 - 1947)

Aerial View, Vertical, AAS Brown Field, Otay Mesa, CA, 20 November 1943

***NAVAL HISTORICAL YARDS - NAVAL AVIATION HISTORY
OFFICE
WASHINGTON, DC***

Aviation History File

Air/Ground Establishments

Chincoteague thru Cincinnati

Box 191

Quarterly Histories, Naval Auxiliary Air Station, Brown Field,
Chula Vista, CA, 1945 - 1946

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PART B
NEGATIVE FINDINGS
BROWN FIELD BOMBING RANGE, CA

SECTION II
NATIONAL CAPITAL REGION ARCHIVES FINDINGS
PART B
NEGATIVE FINDINGS

BROWN FIELD BOMBING RANGE, CA

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WASHINGTON, DC***

RG 80 (General Records of the Department of the Navy, 1798 - 1947)
Entry: General Correspondence, 1926 - 1942

***NARA - ARCHIVES II - TEXTUAL BRANCH
COLLEGE PARK, MD***

RG 16 (Records of the Department of Agriculture)
Entry 17: General Correspondence of the Office of the Secretary of Agriculture,
1906 - 1975

RG 30 (Records of the Bureau of Public Roads)
Entry 54: Highway Traffic Advisory Committee to the War Department,
1941 - 1945

RG 38 (Records of the Chief of Naval Operations)
Entry: General Correspondence, July 1944 - June 1946

RG 48 (Records of the Office of the Secretary of the Interior)
Entry 749B: Central Classified Files, 1939 - 1953

RG 52 (Records of the Bureau of Medicine and Surgery)

Entry: Subject Files, 1941 - 1953

RG 57 (Records of US Geological Survey)

Entry 27: Correspondence and Related Records, 1906 - 1948

RG 72 (Records of the Bureau of Aeronautics)

Entry 1001: "Unclassified" General Correspondence, 1948 - 1959

Entry 1021: Records Relating to Inactive Air Stations

RG 74 (Records of the Bureau of Ordnance)

Entry 25: General Correspondence, 1942 - 1944

Entry 1001: General Correspondence, 1907 - 1946

Entry 1002A: Construction and Procurement Subject Files, 1945

Entry 1002B: Construction and Procurement Subject Files, 1946

Entry 1002C: Construction and Procurement Subject Files, 1947

RG 80 (General Records of the Department of the Navy, 1798 - 1947)

Entry 1318: General Correspondence, 1941 - 1945

RG 96 (Records of the Farmers Home Administration)

Entry 3: Correspondence Relating to Participation in the Defense Program, 1940 - 1942

RG 115 (Records of the Bureau of Reclamation)

Entry 7: General Administrative and Program Files, 1919 - 1945

RG 121 (Records of the Public Buildings Service)

Entry 13: Records Concerning Federal Real Estate Inventory, 1936 - 1940

RG 165 (Records of the War Department General and Special Staffs)

Entry 484D: Federal Works Agency Project Files, 1940 - 1946

Entry 484E: Security Classified Federal Works Agency Project Files, 1942 - 1945

RG 218 (Records of the U.S. Joint Chiefs of Staff)

Entry: Series, 1942 - 1959 (Geographic File)

RG 250 (Records of the Office of War Mobilization and Reconversion)

Entry 46: Surplus Property Disposal Records

RG 269 (Records of the General Services Administration)

Entry 5: Real property Disposal Case Files Transferred from the Farm Credit Administration, 1945 - 1953

RG 270 (Records of the War Assets Administration)
Entry 3: Office of Information, Subject Files, 1946 - 1959

RG 428 (Records of the Department of the Navy, 1947-)
Entry 4: Records of the Secretary of the Navy, General Records, Formerly
Security Classified DCNO 05 (Air) Chronological Files, January 1949 -
June 1950

***NARA - ARCHIVES II - CARTOGRAPHIC BRANCH
COLLEGE PARK, MD***

Pertinent Record Groups

***NARA - ARCHIVES II - MOTION PICTURE, SOUND AND VIDEO
BRANCH
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***NAVAL HISTORICAL YARDS - NAVY DEPARTMENT LIBRARY
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***NAVAL HISTORICAL YARDS - OPERATIONAL ARCHIVES
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***SMITHSONIAN NATIONAL AIR AND SPACE MUSEUM
WASHINGTON, DC***

Pertinent Collections

SECTION III
REGIONAL NATIONAL ARCHIVES FINDINGS
PART A
POSITIVE FINDINGS

BROWN FIELD BOMBING RANGE
AKA
OTAY MESA BOMBING TARGET #32
OTAY MESA BOMBING RANGE
OTAY BOMBING RANGE

***NARA, PACIFIC SIERRA REGION
SAN BRUNO, CA***

RG 121, Records of the Public Building Service
Accession #9NSS-121-87-01
Box #15
Dwg, Subject Property With 20' Easement, Section Maps From
the Office of San Diego Co. Recorder
Dwg, Proposed Location of Bombing Target, to be Located in
Section 24-T18S-R1W
Dwg, Survey of Existing Road to Otay Bombing Target, 1942
Map, 7.5 Quad, Otay Mesa, Calif, Substantiating Data and
Topography Map

***NARA, PACIFIC SOUTHWEST REGION
LAGUNA NIGUEL, CA***

RG 181, Records of the Naval Districts and Shore Establishments
Box #38
Memo, Subj: Proposed Bombing Target Site, Otay Mesa, San
Diego County, California, With Enclosures, October 7,
1941
Memo, Subj: Proposed Bombing Target Site at Otay Mesa, San
Diego County, California, September 3, 1941
Memo, Subj: Proposed Bombing Target Site at Otay Mesa, San
Diego County, California, August 26, 1941
Memo, Subj: Proposed Bombing Target Site, Otay Mesa, San
Diego County, California, 24 Oct 1941
Dwg, Subj: Proposed Location of Bombing Target in Sec 24-
T18S-R1W

Memo, Subj: Joint Army and Navy Occupancy of Camp Kearney,
Ream and Otay Mesa Fields, in the Eleventh Naval
District, Oct 2-1942, with 1st Endorsement, October 3,
1942

Memo, Subj: Naval Air Station, San Diego, California -
Development of Otay Mesa Airfield, 14 October 1942

Memo, Subj: Joint Army and Navy Occupancy of Camp Kearney,
Ream and Otay Mesa Fields, in the Eleventh Naval
District, October 21, 1942, with 2nd and 3rd Endorsements

Memo, Subj: Check of List of Eleventh Naval District Shore
Activities, Jun 18 1942

Memo, Subj: Naval Air Station, San Diego, California - Joint
Use of Outlying Fields, Request for Funds to Accomplish,
Sep 14 1942

Memo, Expansion OTAY MESA Field Facilities, Aug 14 1942,
with 1st and 2nd Endorsements

Dwg, Proposed Location of Bombing Target, to be Located in
Section 24-T18S-R1W

Paper, Outlying Auxiliary Landing Fields, Eleventh Naval
District, San Diego, Calif, Undated

Box #200

Paper, Listing of Bombing Targets

Memo, To Mr. Claude Kuebler, Re: Rock Approach Markers for
Otay Bombing Target, 18 Nov 1944

Memo, Subj: Bombing Targets in Southern California Sector,
Western Sea Frontier, 24 August, 1944

Box #248

Memo, Subj: U.S. v. 46 Acres of Land, More or Less, Situated
in County of San Diego, California - et al., Civil 151,
21 Nov 1944

Box #250

Memo, Possible Damage on Otay Mesa Caused by Naval Bombing
Practice - Prevention of, Apr 14 1947

Memo, To Mr. Bowicker, Re: Live Practice Bombs on the Otay
Mesa, Undated

Map, Blackburns Map of San Diego County

Box #420

Map, Aviation Shore Facilities United States Navy, March 15,
1943

Box #435

Memo, Subj: Construction of Bomb Storage Units by U.S. Army
at Otay Mesa and Kearney Mesa Landing Fields, Feb 25 1942

Memo, Subj: Construction of Bomb Storage Units by U.S. Army
at Otay Mesa and Kearney Mesa Landing Fields, Feb 20 1942

Memo, To The District Regional Engineer, Re: Bomb Storage
Units - Location, February 9, 1942

Memo, From Headquarters Air Force Combat Command, Re: Bomb
Storage Units, December 11, 1941

Memo, Subj: Aviation Shore Facilities - Clarification of
Names of, Oct. 18, 1943

Memo, Subj: Commissioning of Auxiliary Air Station, Otay
Mesa, California - Report of, March 18, 1943

Memo, Subj: Acquisition of 40 Acres of Land near Otay Mesa
in San Diego County, California, for Use as a Bombing
Target for Naval Air Station, San Diego, California, Jun
18, 1941

Memo, Subj: DANGER AREAS - San Diego Area, Undated

Memo, Subj: Danger Areas - San Diego Area, Jan. 24, 1942

Map Drawer 101-3

Map, Army, Navy, and Military Facilities Southern California
Area

Map, N.A.S. San Diego, Calif, Status of Targets, June 30,
1950

SECTION III
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PART B
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BROWN FIELD BOMBING RANGE
AKA
OTAY MESA BOMBING TARGET #32
OTAY MESA BOMBING RANGE
OTAY BOMBING RANGE

***NARA, FEDERAL RECORDS CENTER
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RG 77, Records of the Office the Chief of Engineers
All Entries
Nothing Found

***NARA, PACIFIC SOUTHWEST REGION
LAGUNA NIGUEL, CA***

RG 30, Records of the Bureau of Public Roads
All Entries
Nothing Found

RG 49, Records of the Bureau of Land Management
All Entries
Nothing Found

RG 71, Records of the Bureau of Yards and Docks
All Entries
Nothing Found

RG 77, Records of the Office the Chief of Engineers
All Entries
Nothing Found

RG 92, Records of the Quartermaster General
All Entries
Nothing Found

RG 156, Records of the Chief of Ordnance
All Entries
Nothing Found

RG 219, Records of the Office of Defense Transportation
All Entries
Nothing Found

RG 269, General Records of the General Services Administration
All Entries
Nothing Found

RG 270, Records of the War Assets Administration
All Entries
Nothing Found

RG 336, Records of the Office of the Chief of Transportation
All Entries
Nothing Found

RG 338, Records of U.S. Army Commands
All Entries
Nothing Found

RG 342, Records of U.S. Air Force Commands, Activities, and
Organizations
All Entries
Nothing Found

**NARA, NATIONAL PERSONNEL RECORDS CENTER
ST LOUIS, MO**

All Accessions
Nothing Found

**NARA, FEDERAL RECORDS CENTER
SAN BRUNO, CA**

RG 77, Records of the Office the Chief of Engineers
Accession #077-76L1483
Boxes #115-121,123-125,127-130,137-145
Nothing of Value to This ASR Found

RG 121, Records of the Public Building Service
Accession #121-77-0003
Boxes #1,3-8,10-17,1a-5a
Nothing Of Value to This ASR Found

RG 269, General Records of the General Services Administration
All Entries
Nothing Found

RG 291, Records of the Federal Property Resources Service
All Entries
Nothing Found

NARA, PACIFIC SIERRA REGION
SAN BRUNO, CA

RG 18, Records of the Army Air Forces
All Entries
Nothing Found

RG 30, Records of the Bureau of Public Roads
All Entries
Nothing Found

RG 49, Records of the Bureau of Land Management
Series #98
Box #1015
Nothing of Value to This ASR Found

Series #98a
Boxes #1098G-1098J (5 Boxes)
Nothing Of Value to This ASR Found

RG 77, Records of the Office the Chief of Engineers
All Entries
Nothing Found

RG 92, Records of the Office of the Quartermaster General
All Entries
Nothing Found

RG 121, Records of the Public Buildings Service
All Entries
Nothing Found

RG 156, Records of the Office of the Chief of Ordnance
All Entries
Nothing Found

RG 181, Records of the Naval Districts and Shore Establishments
All Entries
Nothing Found

RG 211, Records of the War Manpower Commission
All Entries
Nothing Found

RG 219, Records of the Office of Defense Transportation
All Entries
Nothing Found

RG 269, General Records of the General Services Administration
All Entries
Nothing Found

RG 270, Records of the War Assets Administration
All Entries
Nothing Found

RG 291, Records of the Federal Property Resources Service
Accession #9nss-291-93-002
Box #2
Nothing of Value to This ASR Found

RG 313, Records of the Naval Operating Forces
All Entries
Nothing Found

RG 406, Records of the Federal Highway Administration
Accession #72A1388
Box #9
Nothing of Value to This ASR Found

California Fap Route Reports 1920-1969
Boxes #3-6
Nothing of Value to This ASR Found

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX C

GLOSSARY

APPENDIX C

GLOSSARY

AR	Army Regulation
BD/DR	Building Demolition/Debris Removal
CG	Commanding General
CEHNC	Corps of Engineers, Engineering & Support Center, Huntsville
CEMVR	Corps of Engineers, Mississippi Valley, Rock Island District
CESPL	Corps of Engineers, Southern Pacific, Los Angeles District
CE	Corps of Engineers
CON/HTRW	Containerized Hazardous, Toxic, and Radioactive Waste
DERP	Defense Environmental Restoration Program
DOD	Department of Defense
EE/CA	Engineering Evaluation/Cost Analysis
EOD	Explosive Ordnance Disposal
ESI	Expanded Site Inspection
FDE	Findings and Determination of Eligibility
FUDS	Formerly Used Defense Sites
GP	General Purpose
GSA	General Services Administration
HTRW	Hazardous, Toxic and Radiological Waste
INPR	Inventory Project Report
IRA	Interim Removal Action
IRP	Installation Restoration Program
NARA	National Archives Records Administration
OE	Ordnance and Explosives
Pub	Publication
RA	Remedial Action
RG	Record Group
RPA	Real Property Accountability
SAB	Same As Before
SI	Site Inspection/Investigation
SIOAC-ES	Army Industrial Operations Ammunition Center Explosive Safety
USACE	U.S. Army Corps of Engineers
USADAC	U.S. Army Defense Ammunition Center
USATCES Safety	U.S. Army Technical Center for Explosives Safety
UXO	Unexploded Ordnance
WAA	War Assets Administration
WD	War Department

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX D
TEXTS/MANUALS

APPENDIX D

TEXTS/MANUALS

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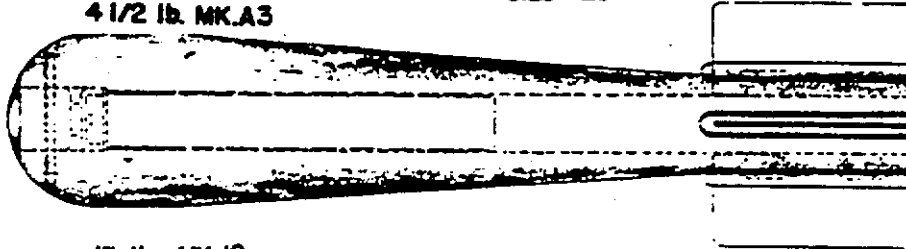
- D-1 Drawings/Data: Navy, Practice Bombs Description (B-7)
- D-2 Drawings/Data: Aircraft Bombs, Fuzes and Associated Components (B-8)
- D-3 Drawings/Data: 3 pound practice bombs (B-9)
- D-4 Drawings/Data: Navy Rockets, SCAR (B-8)
- D-5 Drawings: Rocket, SCAR 2.25 inch (B-9)

U.S. NAVY PRACTICE BOMBS



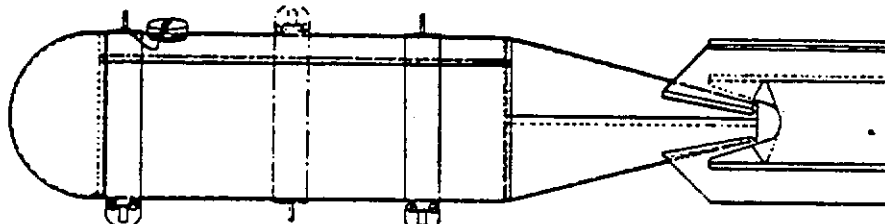
3 lb MKS. 3, 4, 5, 23
4 1/2 lb. MK.A3

8.25" LONG - 2.18" DIA.



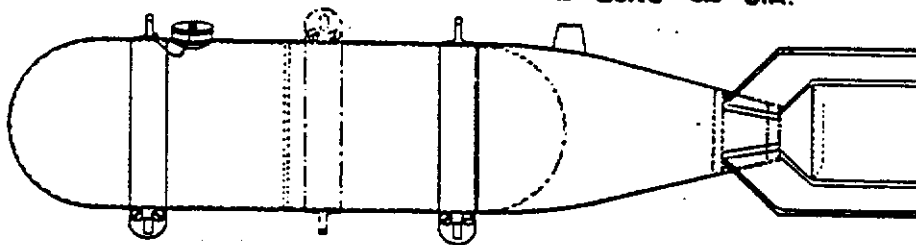
13 lb. MK.19

13.0" LONG - 2.6" DIA.



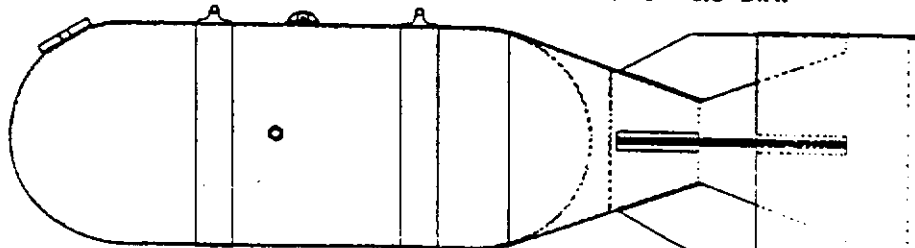
100 lb. MK.7

41.2" LONG - 8.0" DIA.



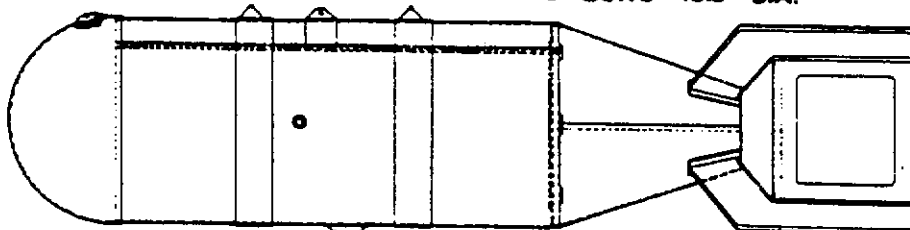
100 lb. MK.15

41.2" LONG 8.0" DIA.



500 lb. MK.21

61.8" LONG - 15.0" DIA.



1000 lb. MK.22

79.0" LONG - 19.0" DIA.

PRACTICE BOMBS

The United States Navy uses two types of practice bombs: (a) Miniature practice bombs and (b) regular-sized practice bombs. Since the miniature practice bombs contain only a practice signal cartridge as a spotting charge and the regular-sized practice bombs contain neither a fuze nor a spotting charge, the information on these bombs has been condensed into the tables below.

MINIATURE PRACTICE BOMBS:

	3 lb. Mks. 3, 4; AN Mk 5 and AN-Mk 23, 43	13 lb. Mk 19
OVERALL LENGTH	8.25 in.	13.0 in.
BODY DIAMETER	2.18 in.	2.6 in.
COLOR & MARKINGS	Unpainted	Unpainted or black
BODY CONSTRUCTION	Alloy Casting	

FILLING These bombs use either the AN-Mk 4 or Mk 5 Signal Cartridge.

REMARKS The AN-Mk 4 practice signal cartridge is an extra long 10-gauge shot gun shell which is inserted in the nose of the bomb. On impact the cartridge is fired, expelling a large puff of black smoke from tail of bomb. The firing device consists of two shallow cups separated by a spacer, the firing pin extending through the bottom of one cup. The firing mechanism in the Mk 5 Mod. 1 is more sensitive than in other marks. The Mk 5 signal cartridge is the same size but filled with fluorescein, which stains the water, giving a spot of longer duration than the AN-Mk 4. Difference between bombs is primarily a difference in alloy of casting.

REGULAR-SIZED PRACTICE BOMBS:

	LENGTH	DIAMETER	COLOR	TOTAL WEIGHT	
				WATER FILLED	WET SAND FILLED
100 lb. Mk. 7	41.2 in.	8.0 in.	Black	48.5 lbs.	83.0 lbs.
100 lb. Mk. 15	41.2 in.	8.0 in.	Black	57.0 lbs.	100.0 lbs.
500 lb. Mk. 5	67.3 in.	16.0 in.	Black	360.0 lbs.	500.0 lbs.
500 lb. Mk. 11	61.8 in.	15.0 in.	Black	268.0 lbs.	448.0 lbs.
500 lb. Mk 21	61.8 in.	15.0 in.	Black		489.0 lbs.
1000 lb. Mk. 7	80.0 in.	19.0 in.	Black	580.0 lbs.	1000.0 lbs.
1000 lb. Mk. 22	79.0 in.	19.0 in.	Black		1013.7 lbs.

No fuzes are used in these bombs and they contain no spotting charge, being filled either with water or wet sand. The filling is usually stencilled on the body of the bomb. To prevent freezing and splitting of cases at high altitude, anti-freeze is added. To improve spotting of hits, a spotting dye is also used.

REMARKS:

Mk 15 100# and Mk 21 500# are the only ones being issued now; the others are obsolete.

NAVWEPS OP 2216 (VOLUME 1)

Wet Sand Filler (lb)....	76.....	77.4.....	76.0.
Water Filler (lb).....	39.....	40.....	39.
Water Filler (gal).....	4.6.....	4.7.....	4.6.
Signal.....	None.....	Mk 7 Mod 0.....	Mk 4 Mods 0, 1, 2, 3, 4.
Fuze.....	None.....	Mk 247 Mod 0.....	None.
Firing-Pin Assembly....	None.....	None.....	Mk 1 Mod 0.
Arming-Wire Assembly	Mk 1 or AN-M6A2.	Mk 1 or AN-M6A2.	No Arming Wire.

100-LB PRACTICE BOMB Mk 15 Mod 2

General Description

The 100-lb PB Mk 15 Mod 2 is identical to the Mod 3 except that it is not adapted for the use of a fuze and signal. It is filled with water or a mixture of sand and water for spotting purposes.

For training purposes, a small washer may be soldered to the nose of the bomb to simulate a fuze. The end of an arming wire

which is normally inserted in the fuze of service-type bombs is then secured to the washer. For ARMED releases, the washer is torn free of the bomb by the arming wire; for SAFE releases, the arming wire remains secured to the washer.

When used against armored-deck target boats, it is filled with water and released from an altitude of less than 7000 feet.

100-LB PRACTICE BOMB Mk 15 Mod 3

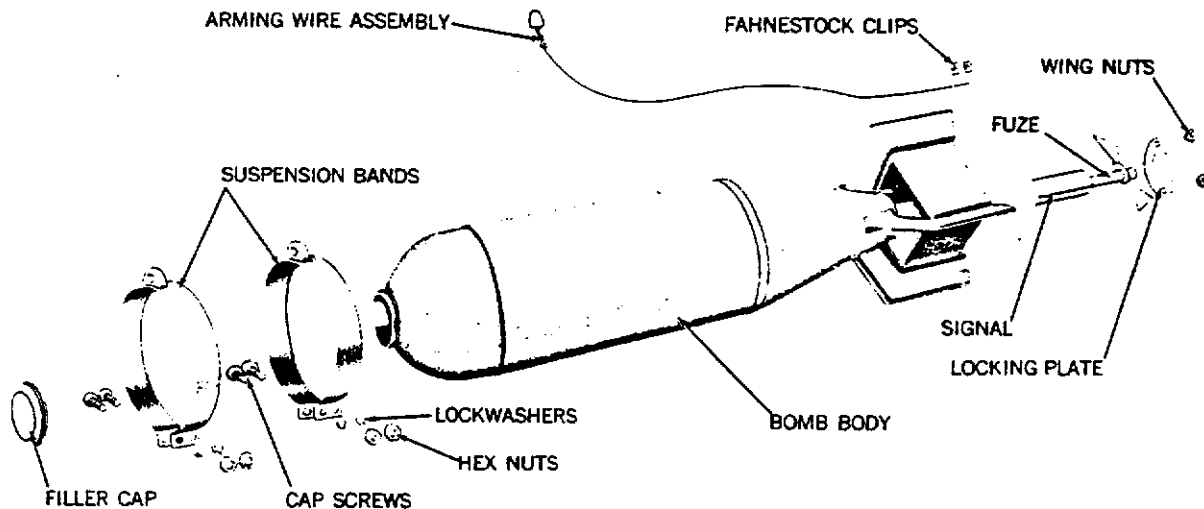


Figure 11-16.—100-lb Practice Bomb Mk 15 Mod 3, Exploded View.

General Description

The 100-lb PB Mk 15 Mod 3 has a light-cased, cylindrical body with a threaded filling hole in its rounded nose. A box-type

fin assembly, consisting of four metal vanes attached to a cone, is welded to the after end of the body. A flat nose attachment that prevents ricochet of the bomb at en-

PRACTICE BOMB ASSEMBLIES

100-LB PRACTICE BOMB Mk 15 Mods 2, 3, and 4

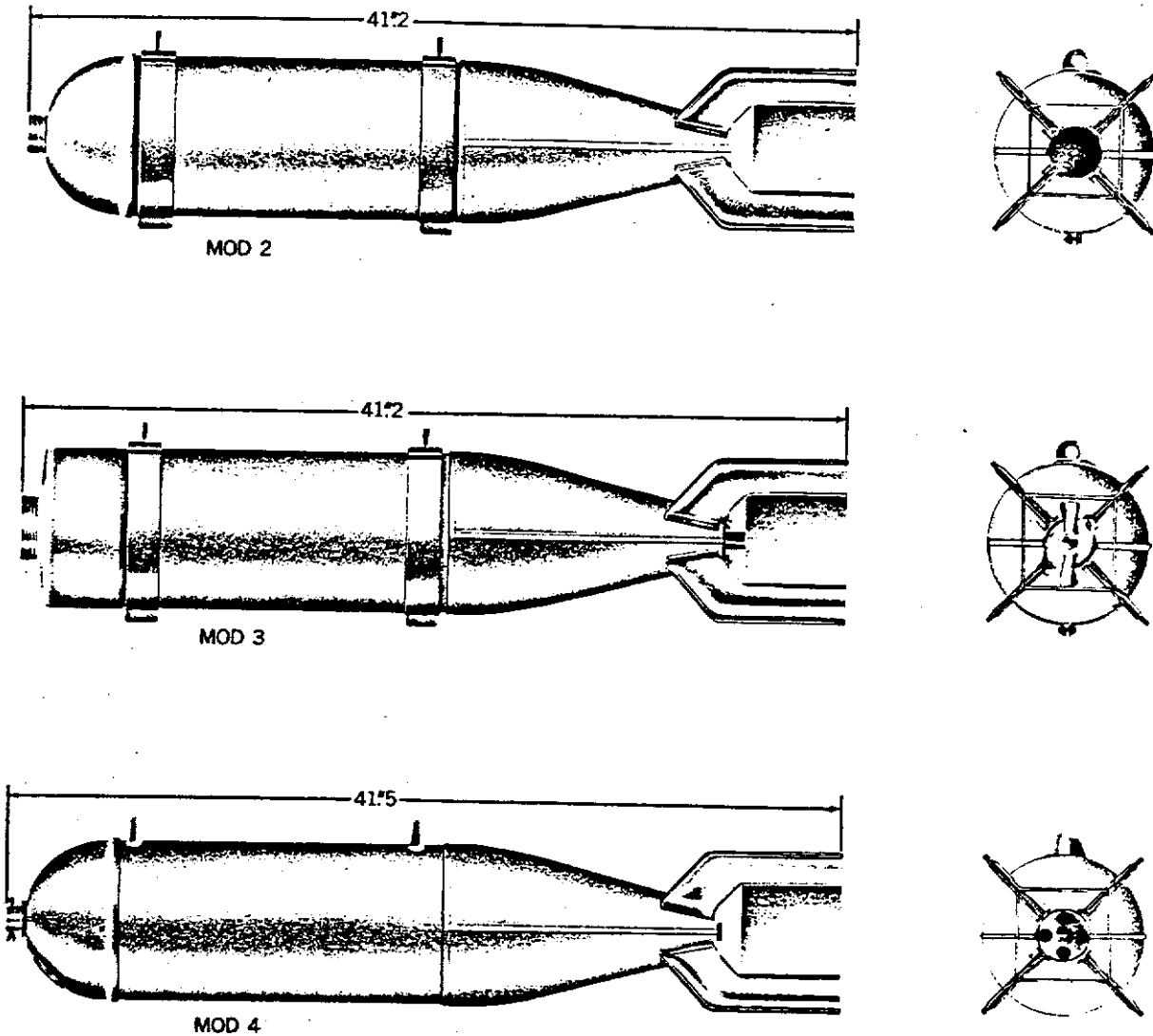


Figure 11-15.—100-lb Practice Bomb Mk 15 Mods.

Mark.....	15.....	15.....	15.....
Mod.....	2.....	3.....	4.....
General Arrangement..	204276.....	439738.....	516342.....
List of Drawings.....	Sk 58152.....	Sk 109536.....	261462.....
Length of Assembled			
Bomb (in.).....	41.2.....	41.2.....	41.5.....
Diameter (in.).....	8.0.....	8.0.....	8.0.....
Fin Span (in.).....	11.24.....	11.24.....	11.24.....
Weight of Assembled			
Bomb (lb):			
Loaded with Wet Sand.....	100.....	100.....	97.0.....
Loaded with Water.....	56.....	67.....	60.....

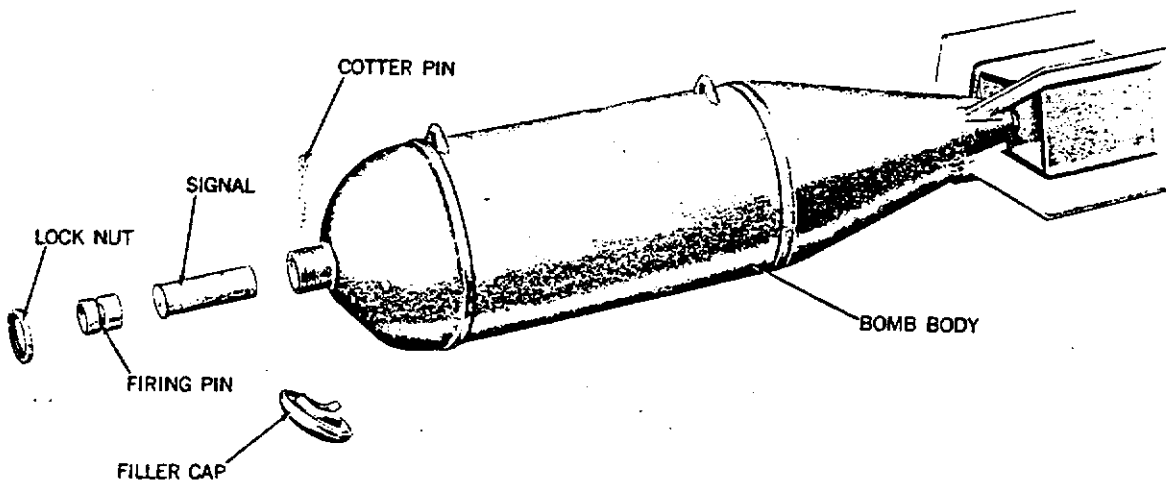


Figure 11-17.—100-lb Practice Bomb Mk 15 Mod 4, Exploded View.

trance angles as low as 90 degrees is used during antisubmarine practice. The attachment is secured in place by a cap which threads onto the filling hole.

The bomb has two metal suspension band assemblies, each consisting of a circular clamp, a suspension lug, and two cap screws for tightening the band to the bomb. The band may be adjusted for double suspension of the bomb by orienting to suit the rack or shackle to which the bomb is to be attached. For single suspension, one band is installed at the approximate center of gravity of the bomb.

The bomb is filled either with water or with a mixture of water and sand. Antifreeze must be added under freezing conditions to prevent bursting of the bomb case caused by freezing of the filler.

Painting and Marking

The bomb is painted black; identification data is stenciled on the body in white letters.

Use

It is used with Practice Bomb Signal Mk 7 Mod 0 and inert Fuze Mk 247 Mod 0, which are secured to the after end of the bomb.

Functioning

Upon impact of the bomb, the firing pin in the fuze detonates a blank .38 caliber cartridge in the signal which, in turn, explodes the signal. The explosion of the signal produces a flash and a large puff of smoke, permitting observation of bombing accuracy.

Assembly

CAUTION: Signals, fuzes, and bombs are not to be unpacked in advance of requirements. If unpacked and not used, return them to their original packings.

1. Remove the bomb assembly from its crate.
2. Inspect for damaged seams, cracked weldments, and deformed areas which might cause leaks, weaken the suspension bands, or prevent serviceable use.
3. Stand the bomb vertically with its nose up and remove the filler cap and gasket. Replace the gasket if damaged.
4. Fill the bomb with the required amount of water or wet sand. When necessary, add antifreeze to the filler. In order to fill the bomb with a maximum quantity of wet sand

mixture, approximately one quarter of the bomb should be filled with dry sand. Saturate the sand with water, followed by more sand and more water in successive steps until the bomb is filled. If possible, check the weight of the bomb on a scale to ascertain when the correct weight has been obtained.

5. Reinstall the gasket and filler cap, threading on hand tight.

6. Adjust for 14-inch suspension by loosening and moving the suspension bands. For single suspension, take off one band and move the other to the approximate center of gravity of the bomb. Aline the bands so that the tail fins will clear the aircraft

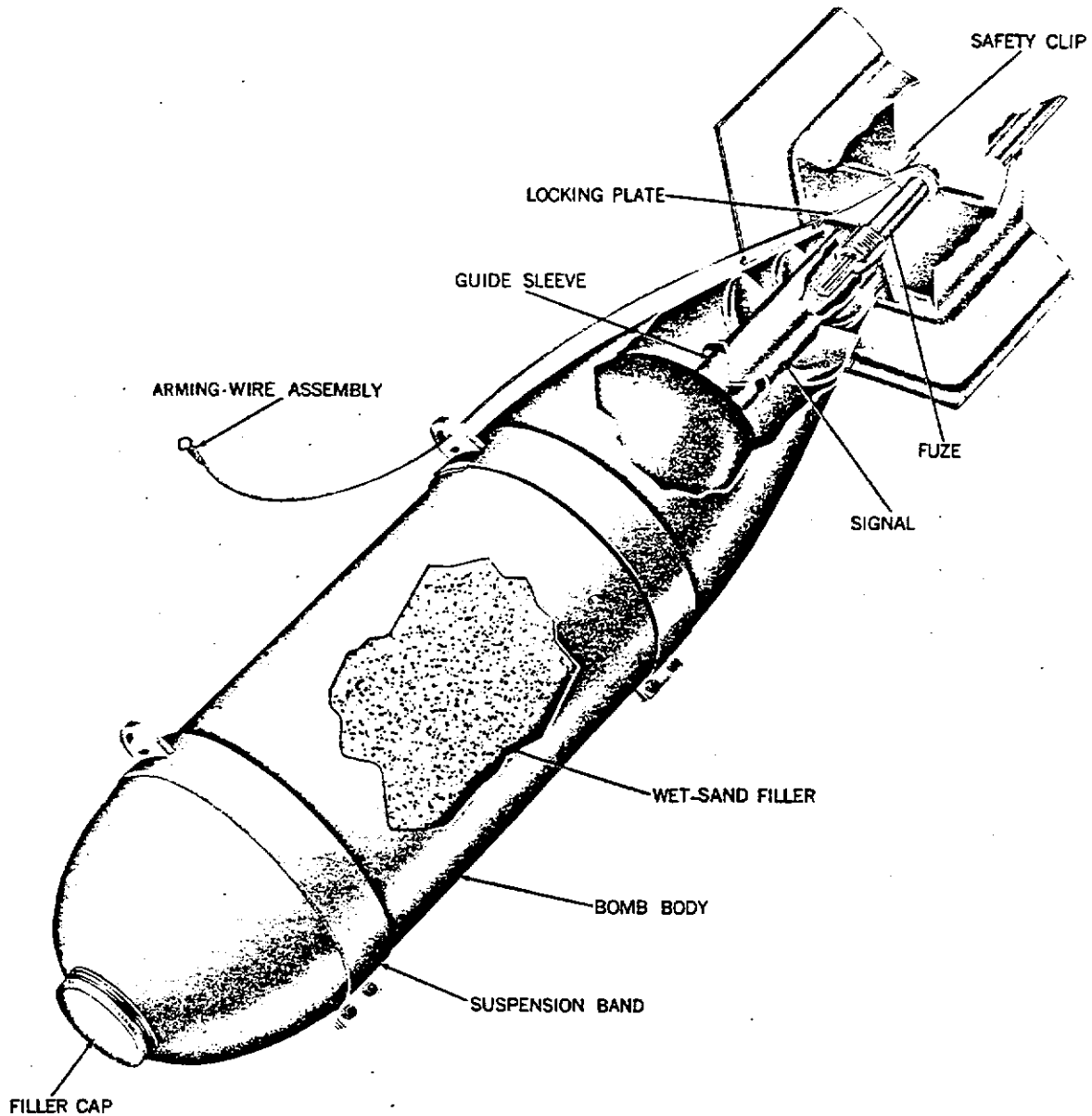


Figure 11-18.—100-lb Practice Bomb Mk 15 Mod 3, Cutaway View.

PRACTICE BOMB ASSEMBLIES

structure and ground when the bomb is installed. Secure the bands in place by tightening the band securing screws.

7. Remove the wing nuts, lockwashers, and locking plate from the two studs in the after end of the bomb.

8. Open the box containing Signal Mk 7, Fuze Mk 247, the fuze arming-vane assembly, the cotter pin, and the blank .38 caliber cartridge which is sealed in an envelope in each carton. If the containers are punctured, split, or badly damaged, or if the seals are broken, the fuze and signal assembly is to be considered unserviceable. This does not apply to fuze and signal assemblies repacked in the field and sealed with adhesive tape for temporary protection. Such assemblies must be examined carefully for serviceability.

9. Place the arming-vane assembly on the arming screw of the fuze and adjust it so that the holes in the vane hub aline with those in the arming screw. Insert the cotter pin through the holes and secure it by spreading its two ends.

10. Loosen the locknuts on the fuze and unscrew the fuze from the signal. Insert the blank .38 caliber cartridge into the chamber of the signal, primer end facing aft. Thread the fuze into the signal and secure it by tightening the locknuts.

11. Insert the fuzed signal into the opening in the after end of the bomb, seating it firmly in the guide sleeve attached to the

bomb body. Adjust the fuze for correct position to permit a straight pull of the arming wire.

12. Place the locking plate of the bomb around the fuze and over the signal, securing it handtight with the wing nuts and lockwashers.

13. Thread the arming wire through the rear suspension lug of the bomb, then through the arming-wire guide and vane assembly of the fuze. The arming wire must be free of kinks and burrs, and should extend 2 to 3 inches beyond the flange of the fuze.

14. For external suspension of the bomb, place one safety (Fahnestock) clip on the free end of the arming wire, adjacent to the arming vane of the fuze. If the bomb is to be installed in a bomb bay, do not install a safety clip on the arming wire.

15. Install the bomb in accordance with the type of rack or shackle in use, and lock it securely in place.

CAUTION: Do not remove the safety cotter pin from the body of fuze before the bomb is secured in the aircraft and the arming wire is completely installed.

Disassembly

To disassemble the complete bomb, the steps should be carried out in reverse order and the components restored to their original condition.

100-LB PRACTICE BOMB Mk 15 Mod 4

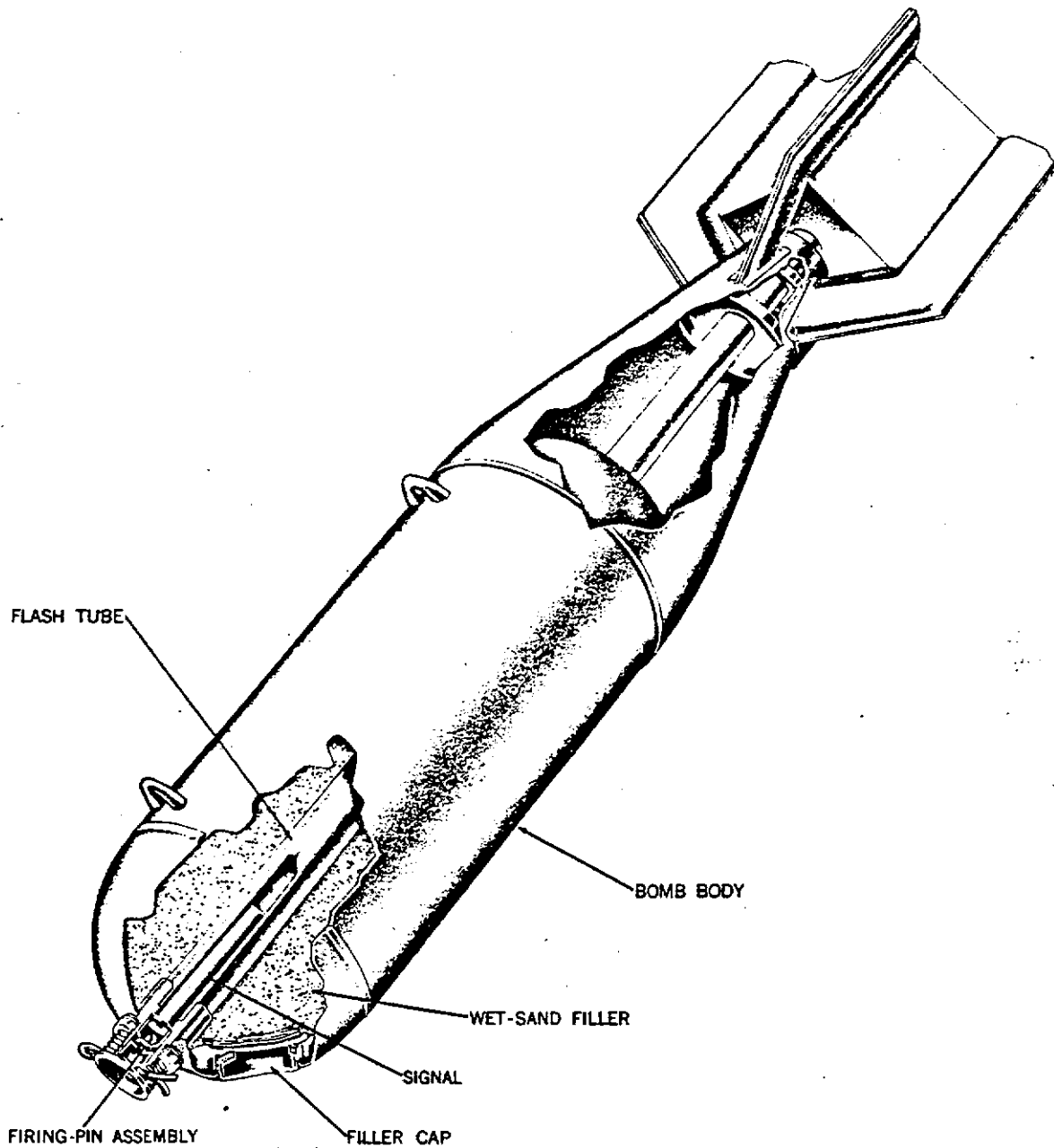


Figure 11-19.—100-lb Practice Bomb Mk 15 Mod 4, Cutaway View.

General Description

The 100-lb PB Mk 15 Mod 4 is a light-cased, cylindrical bomb with a round nose and an integral box-type fin and cone. A

flash tube, extending throughout its transverse axis, houses a pyrotechnic signal and firing-pin assembly. Two suspension lugs are welded to the bomb body 14 inches

11-26

apart. A filling hole is located off-center on the bomb nose and is sealed by a filler cap similar to those used on automobile gas tanks.

The firing-pin assembly consists of two shallow metal cups, separated by a spacer which houses the firing pin. A cotter pin through the nose end of the flash tube and two recesses in the lip of the forward cup locks the firing-pin assembly and signal in place.

The bomb is filled either with water or with a mixture of water and sand. Anti-freeze must be added under freezing conditions to prevent bursting of the bomb case caused by freezing of the filler.

Painting and Marking

The Mk 15 Mod 4 bomb is painted black; identification data is stenciled on the cylindrical section of the bomb in white letters.

Use

It is used with Signal Mk 4.

Functioning

The signal is detonated by action of the firing pin upon impact of the bomb. The explosion of the signal produces a flash and a large puff of smoke, permitting observation of bombing accuracy.

Assembly

CAUTION: Signals and bombs are not to be unpacked in advance of requirements. If unpacked and not used return them to their original packings.

1. Remove the bomb and the signal from their respective packings.

2. Inspect the bomb for damaged seams, cracked weldments, and deformed areas which might cause leaks in the bomb body or weaken the suspension lugs, or their attachment to the bomb case.

3. Stand the bomb vertically with its nose up. Remove the filler cap and gasket and replace the gasket if damaged.

4. Fill the bomb with the required amount

of water or wet sand exactly as for the Mod 3.

5. Replace the filler cap and gasket; be sure the gasket is properly installed. Twist the filler cap on with a spanner wrench until it is locked securely in place.

6. Remove the cotter pin and firing-pin assembly from the nose end of the flash tube.

7. Inspect the firing-pin assembly for damage. The firing-pin cups must not be deformed, and the point of the firing pin must be below the lip of its cup.

8. Inspect the bore of the flash tube through the center of the bomb. The bore must be clean, smooth, free of obstructions, and undamaged.

9. Inspect the signal to see that it is not swollen or deformed in any manner. The primer must be flush with or slightly below the base of the cartridge. Deformed signals must not be used.

10. Insert the signal, primer end up, into the bomb and let it slide gently into place; do not force it. The base flange of the signal cartridge must rest on the shoulder of the flash tube, approximately $1\frac{1}{8}$ inches from the nose of the tube.

11. Carefully insert the firing-pin assembly into the flash tube, with the point of the firing pin facing toward the signal. The firing-pin assembly must drop into place under its own weight.

CAUTION: Do not apply pressure to force the firing-pin assembly into the bomb as the assembly may collapse and fire the signal.

12. Rotate the firing-pin assembly so that the two recesses in the lip of the forward cup are alined with the two pin holes in the nose of the flash tube.

CAUTION: Do not exert any downward pressure on the firing-pin assembly during this operation.

13. Insert the cotter pin through the holes in the nose of the flash tube and the two recesses in the cup of the firing-pin assembly.

14. Spread the ends of the cotter pin suffi-

ciently to lock the pin in the bomb. Do not bend the ends at right angles to the axis of the cotter pin or strike the ends to bend them into position.

CAUTION: Be extremely careful when handling practice bombs loaded with signals. Jarring or dropping the bomb may detonate the signal. Do not, under any circumstances, point either end of the

signal toward other personnel. Loaders must not place their bodies in line with the nose or tail ends of the bombs.

Disassembly

To disassemble the complete bomb, these steps should be carried out in reverse order and the components restored to their original condition.

BOMB COMPONENTS OTHER THAN FUZES

PRACTICE BOMB SIGNAL Mk 4 Mods 3 and 4

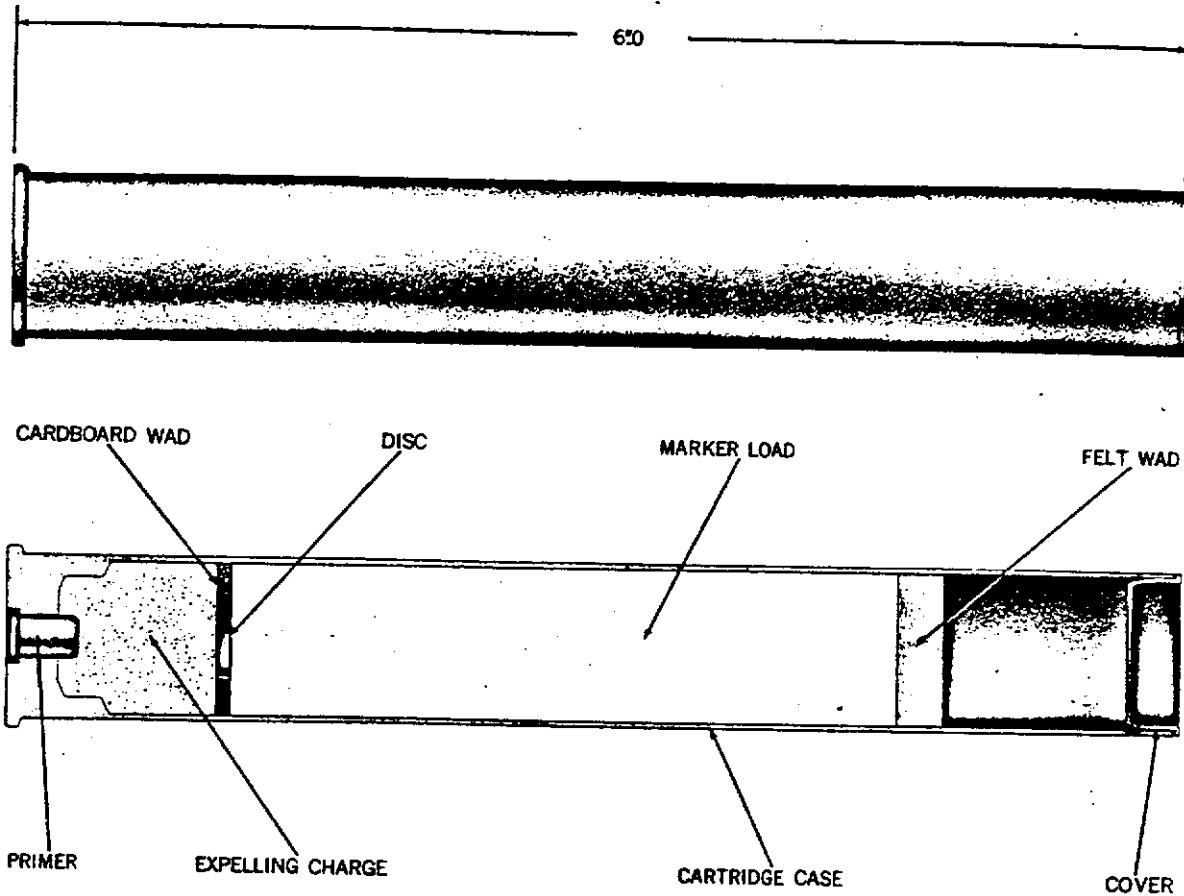


Figure 3-19.—Practice Bomb Signal Mk 4 Mods 3 & 4.

Mark.....	4.....	4.
Mod.....	3.....	4.
General Arrangement.....	398800.....	1211717.
List of Drawings.....	Sk 166560.....	256093.
Length (in.).....	6.0.....	6.0.
Diameter (in.).....	0.85.....	0.85.
Weight (lb).....	0.16.....	0.16.
Case Material.....	Aluminum.....	Aluminum.
Expelling Charge.....	Smokeless powder.....	Smokeless powder.
Marker Load.....	Stabilized red phosphorous.	Zinc oxide.
Shipping Containers:		
Cardboard Carton.....	200 signals.....	200 signals.
Wood Box.....	25 cartons.....	25 cartons.

General Description

Practice Bomb Signals Mk 4 Mods 3 and 4 are essentially 10-gauge shotgun shells of

extra length. They contain an expelling charge of smokeless powder and are primed with a commercial primer. A pyrotechnic

or inert marker load is separated from the expelling charge by a disc and cardboard gun-wad. The end of the shell is closed by felt gun-wads which are secured by a cemented cover.

Use

The signals are used either in the miniature or the larger practice bombs. Installed in the miniature practice bombs, the signals do not consistently produce a visible signal on impact with water or soft earth when dropped from an altitude of 10,000 feet or higher. The bomb, when dropped from that height, enters the water or earth so quickly that the signal frequently does not have time to function.

Functioning

When the practice bomb in which the signal is installed strikes water or the earth, impact causes the firing pin in the nose of the bomb to impinge upon the primer of the signal. The primer ignites the expelling charge, forcing the marker load out through an opening in the bomb. The resulting flash and puff of white smoke permit observation as to bombing accuracy.

Assembly

During loading operations, the signal is placed in position in the bomb. The firing-pin assembly then is inserted with the firing pin facing toward the signal. A cotter or plain pin is inserted in the nose of the bomb to prevent the firing-pin assembly and the signal from falling out. See assembly procedures under the particular bomb to be used.

Differences Among Mods

Signal Mk 4 Mod 0 was the first of this type developed. Mods 1 and 2 were procured for issue to activities limited by environment to performing practice bombing in the vicinity of flammable areas. These signals contain inert materials which produce very little flash and a smoke puff markedly inferior to that of the Mod 0 signal.

Signal Mk 4 Mod 3 is similar to the Mk 4 Mod 0 but differs in that: (1) the cartridge case of the Mk 4 Mod 3 is extruded aluminum instead of paper; (2) a primer mixture with improved storage characteristics has been used; and (3) a new pyrotechnic load which produces about the same flash, but a superior smoke puff, has been incorporated.

The Mk 4 Mod 4 signal is similar to the Mk 4 Mod 3 with the exception of an inert marker load of zinc oxide. In both mods the cover and cartridge case are cemented together; in Mod 3 the assembly also is staked in four equally spaced places.

Safety Precautions

Rough handling may cause immediate functioning of the signal or may damage it so that it will not function properly.

Signals must not be unpacked in advance of requirements. If unpacked and not used, return to original packing.

Swollen or deformed signals are not to be used. The primer must be flush with or slightly below the base of the signal. Defective signals will be turned over to a bomb disposal officer.

Under no circumstances should a signal case be opened or tampered with.

PRACTICE BOMB SIGNAL Mk 6 Mod 0

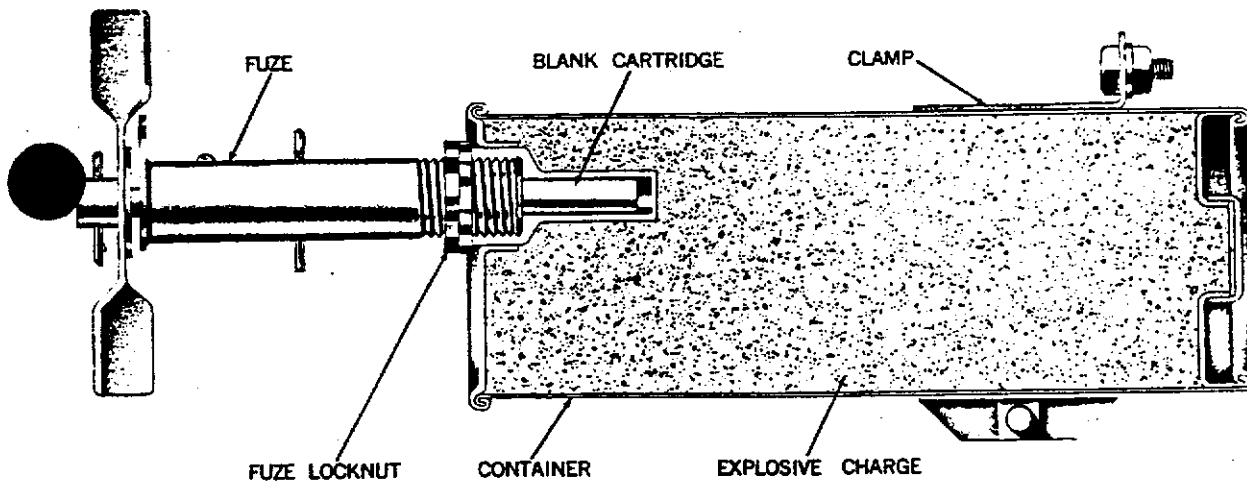
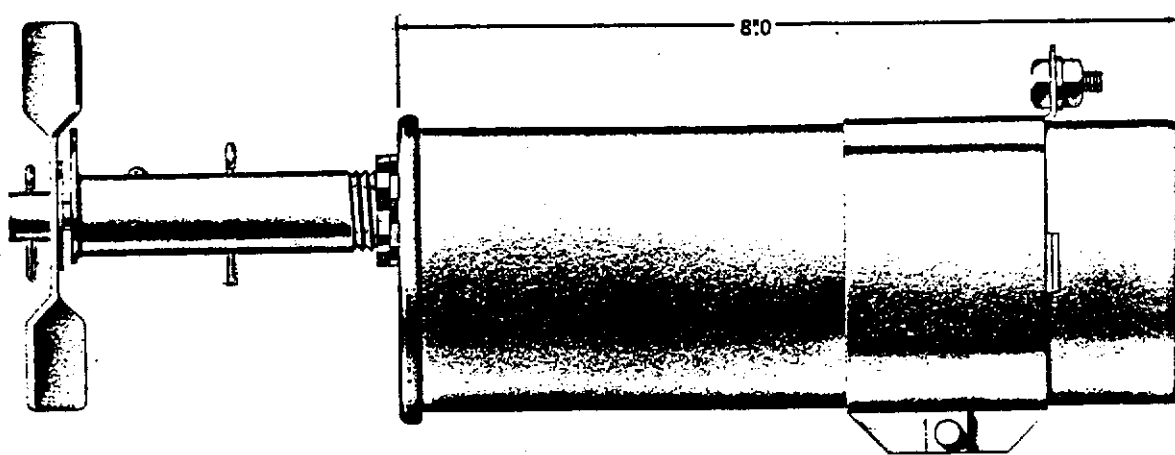


Figure 3-21.—Practice Bomb Signal Mk 6 Mod 0, Assembled with Fuze.

Mark	6
Mod	0
General Arrangement	438277
List of Drawings	109524
Length (in.)	8.0
Diameter (in.)	3.0
Weight of Assembled Signal (lb)	3.7
Container Material	Steel
Explosive Charge	
Type	Black powder
Weight (lb)	2.0

General Description

Practice Bomb Signal Mk 6 Mod 0 is es-

entially a can of black powder fitted with the inert Fuze AN-Mk 247 Mod 0 and a blank .38 caliber cartridge which is used as a detonator. The Mk 6 is generally the same as the Mk 7 signal except that the fuze is mounted off-center in the Mk 6 and its black powder filling weighs approximately 1 pound more. The Mk 6 signal is used with practice bombs for observation as to bombing accuracy.

BOMB COMPONENTS OTHER THAN FUZES

Functioning

Upon release from the plane, the arming wire is withdrawn, permitting the fuze arming vane to rotate and arm the signal. Upon impact of the bomb, the firing pin in the fuze overcomes a creep spring and impinges upon the primer of the blank cartridge, which, in turn, ignites the black-powder charge. The resulting explosion produces a flash of light and a large puff of gray smoke.

Assembly

When the signal is placed in the bomb, the fuze is unscrewed and the blank cartridge is inserted in the cartridge chamber. The fuze then is re-inserted and secured by lock-nuts. At the time of loading the bomb into the plane, the arming wire is inserted through a flange on the fuze and through the fuze arming vane. After the bomb and arming wire completely and securely are installed in the plane, the safety pin is removed from the body of the fuze.

Packaging

When shipped, the signal is assembled with the fuze and packed in a corrugated cardboard carton. The carton also contains

the blank cartridge (sealed in a separate envelope), the signal clamp assembly, the fuze arming vane, and a cotter pin for securing the vane to the fuze. 20-mm Ammunition Box Mk 3 Mod 1 will accommodate twelve of these cartons.

Safety Precautions

Signals should not be unpacked in advance of requirements. If unpacked and not used, return them to their original packing.

If signal cartons are punctured, split, or badly damaged, or if seals are broken, the contents are considered unserviceable. This does not apply to signals repacked in the field and sealed with adhesive tape for temporary protection. These assemblies must be examined carefully for serviceability by qualified personnel.

Avoid dropping or jarring signal at all times to prevent accidental detonation.

Stow signals in a dry, ventilated location, out of the direct rays of the sun.

Signals and signal cartridges must not be deformed in any manner.

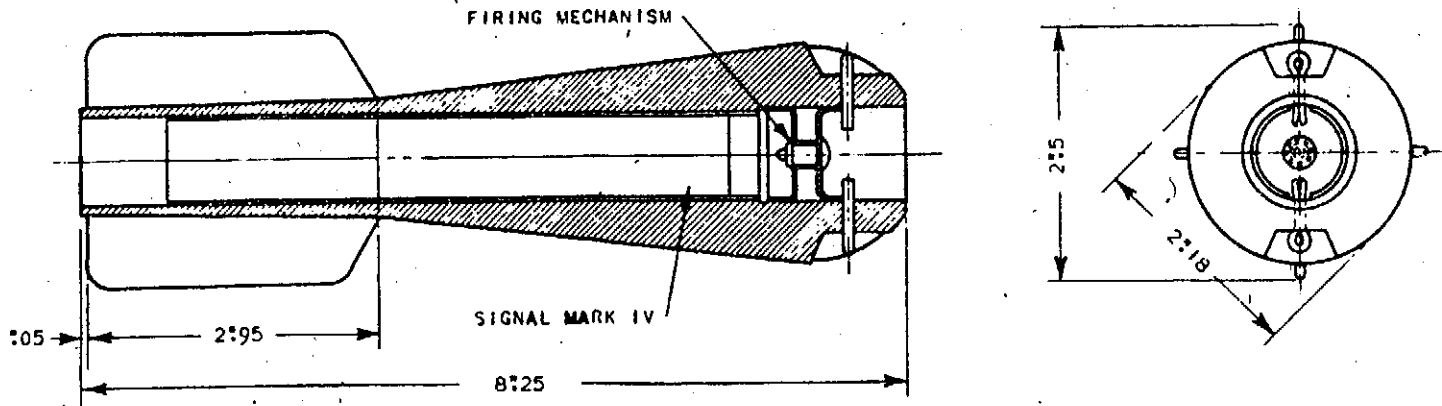
If necessary to disassemble the signal, the safety cotter pin must be installed in the body of the fuze before the arming wire is removed.

SECTION XIV. PRACTICE BOMBS

119. **GENERAL.** Practice bombs are provided for training of bombing crews in marksmanship. They resemble service bombs in appearance and flight characteristics and are provided with a fuze and spotting charge unless conditions make a special spotting charge unnecessary.

120. **BOMB, PRACTICE, 3-LB., AN-MK. 5-MOD. 1.** a. **Data.** BOMB, practice, 3-lb., AN-Mk. 5-Mod. 1, is a streamlined miniature practice bomb 8.25 inches in length and 2.5 inches in diameter. It is made of chromium plated steel. The authorized spotting charge is SIGNAL, bomb, practice, miniature, AN-Mk. 4.

b. **Other models.** BOMB, practice, 3-lb., AN-Mk. 23, is the same as the AN-Mk. 5-Mod. 1 except that it is made of cast iron. BOMB, practice, 4.5-lb., AN-Mk. 43, is the same except that it is made of lead. Cartridge, M4 or M5 may be substituted for SIGNAL, bomb, practice, miniature, AN-Mk. 4.



RA PD 23026

Figure 277 — Practice Bomb Mk. V (Miniature—Navy)

Part 2 — Chapter 5 — Section 4

NAVY ROCKETS

2.25-INCH ASSEMBLIES

Motor	Head	Velocity	Approximate Trajectory of
2.25" Mk 10 or 11	2.25" Mk 1 or 3 (1.6 lb.)	1150 ft./sec.	3.5' Rocket (3.25" Motor)
2.25" Mk 12 or 13	2.25" Mk 1 or 3 (1.6 lb.)	810 ft./sec.	5.0' Rocket (3.25" Motor)
2.25" Mk 10 or 11	2.25" Mk 2 (8.6 lb.)	810 ft./sec.	5.0' Rocket (3.25" Motor)

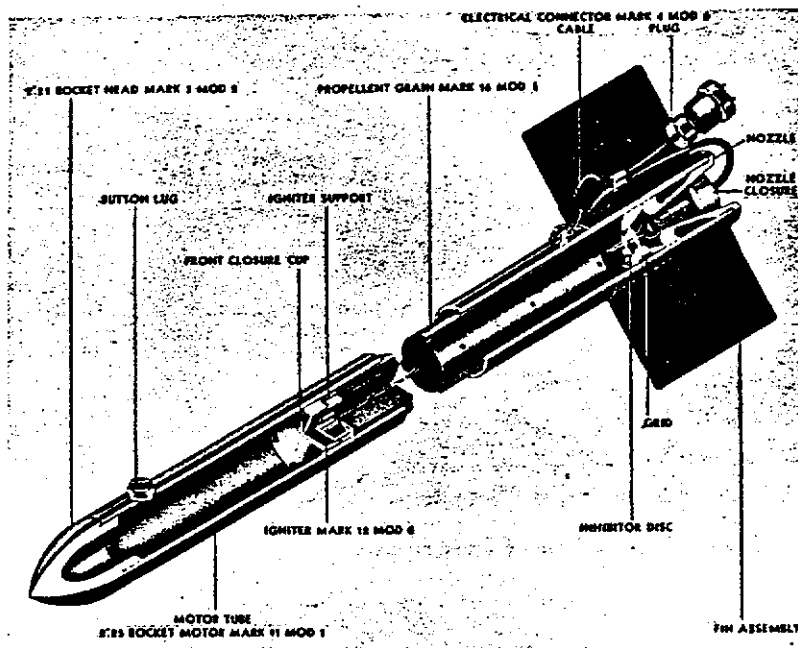


Figure 124. 2.25-inch A.R., Practice

2.25-inch A.R. Practice

General: The 2.25-inch sub-caliber rocket for aircraft was developed for training purposes. Initially, two types were designed to approximate the trajectory of the 3.5-inch and 5.0-inch rockets; however, only the Motor Mk 11 and the Head Mk 3 Mod 2 will be used in future training.

The Mk 1, a California Institute of Technology production, was issued until adopted and issued by Bureau of Ordnance as the Mk 3 Mod 2. The Mk 2, a California Institute of Technology production, was designed as a slow sub-caliber rocket. The complete assembly for the latter is no longer available.

The 2.25-inch Motors Mk 10 and Mk 11 are similar to each other, as are the 2.25-inch Motors Mk 12 and Mk 13. The Motors Mk 10 and Mk 11 differ from the Mk 12 and Mk 13 in that the diameter of the nozzle on the latter is smaller and the weight of the propellant of the Mk 10 and Mk 11 is 1.75 pounds, as compared to the weight of 1.12 pounds in the Mk 12 and Mk 13.

The external dimensions of these rockets are the same. For recognition purposes, the 2.25-

inch motors Mk 10 and Mk 11 are painted white with black fins, while the Motors Mk 12 and Mk 13 are grey with black fins.

Motor Mk 11 and Head Mk 3 Mod 2: Over-all length of the rocket is 29 inches. Two button-type lugs are provided on the motor tube, spaced approximately 19 inches apart. Four fins are welded to the after end of the motor tube. The propellant is a cylindrical grain of ballistite weighing approximately 1- $\frac{3}{4}$ pounds.

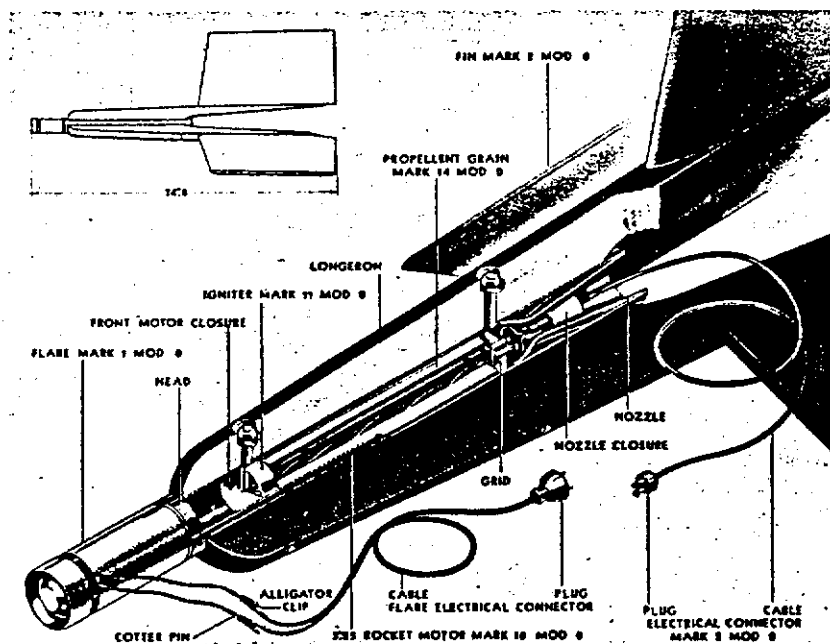


Figure 125. 3.25-inch Target Rocket

3.25-inch Targets

General: As a target for antiaircraft gunners, the rocket is projected with speeds approximating those of an aircraft. It consists of a rocket propulsive unit to which are attached large stabilizing fins, for maximum visibility. Rocket targets are referred to by their assembly number as indicated in the accompanying table. They all consist of a simple rocket motor with three large fins prepared from wooden frames and light-weight fiber board. The fins are 120 degrees apart, each attached by two lugs.

The 3.25-inch Rocket Targets Mk 1 and Mk 2 consist of a motor 36 inches long, to which fins 18 inches by 34 inches are attached. An electrical connection is made by a standard 110-volt plug. The 3.25-inch Target Rocket Mk 1 is standardized at 425 m.p.h. and the Mk 2 at 300 m.p.h. On some models, a screamer is put over the nose end.

The Mk 3 and 4 differ from Mk 1 and 2 in that the motor is heavier and the fins are held on by threaded studs instead of lugs. The ballistics are similar; Mk 3 is like Mk 1, and Mk 4 is like Mk 2.

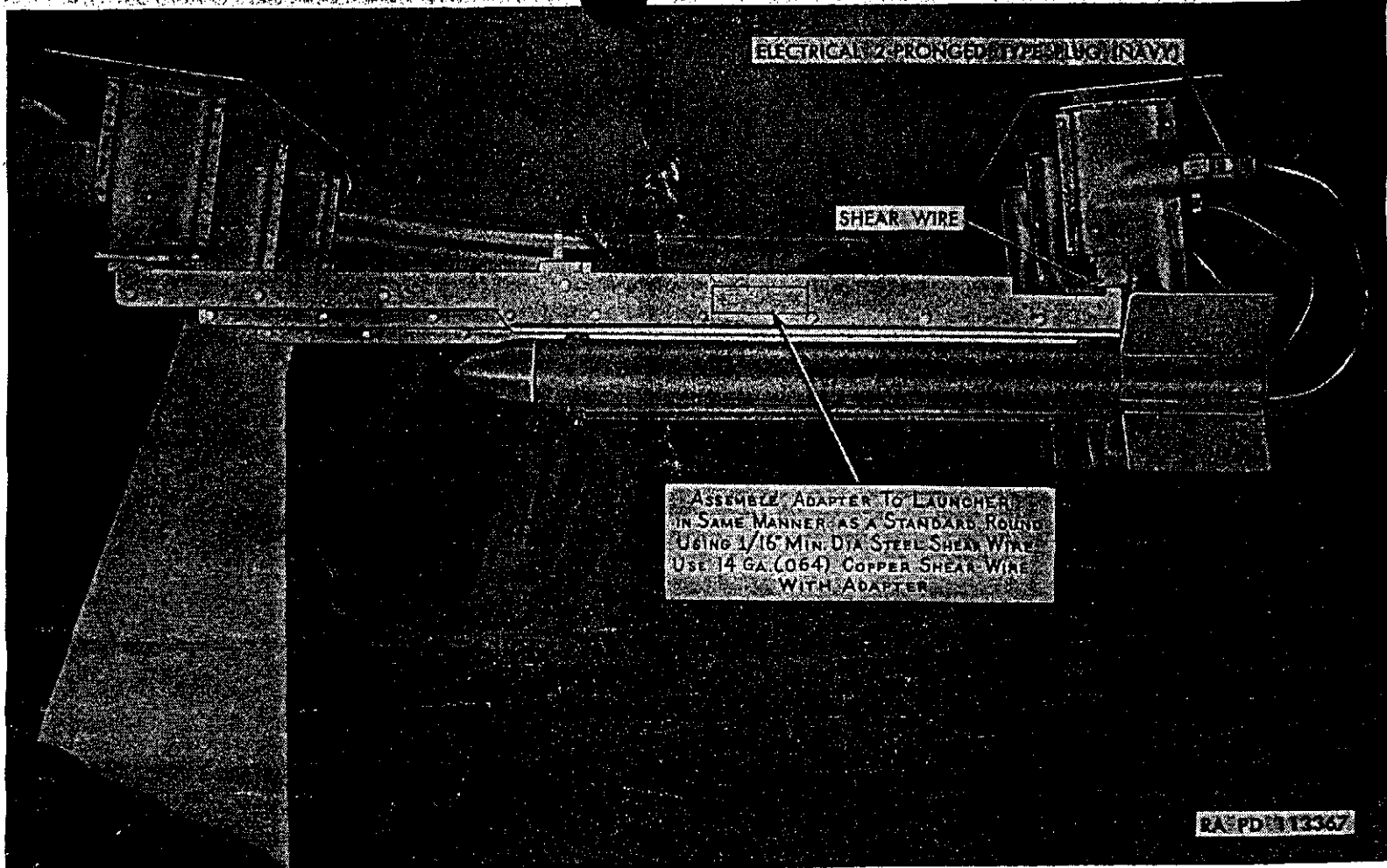


Figure 55. 2.25-inch subcaliber aircraft rocket with M6 adapter rail on post launcher.

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX E
REPORTS/STUDIES

APPENDIX E
REPORTS/STUDIES

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- E-2 INPR FDE (B-2).
- E-3 INPR Project Summary Sheet (B-2).
- E-4 B-12 Quarterly History Supplements to NAAS Brown Field,
1 June - 1 September 1945 (B-12).
- E-5 B-13 Naval Air Targets, Gunnery and Bombing Areas
1947/48? (B-13).

SITE SURVEY SUMMARY SHEET
FOR
DERP-FUDS SITE NO. J09CA113000
BROWN FIELD BOMBING RANGE, CA

SITE NAME(S): Brown Field Bombing Range, also known as Otay Mesa Bombing Range, Otay Bombing Target, or Otay Mesa Bombing Target #32

LOCATION: San Diego County, California, northeast of Brown Field Municipal Airport; see site map enclosed

SITE HISTORY: Beginning in 1944, the Department of Defense used the 46.44-acre site as a target range for Navy bombing practice. Civilian ownership of the property resumed in 1961. Currently, the site owner is proposing to develop the property as part of a business park complex.

SITE VISIT: A site visit was conducted on 18 July 1990 by Timothy O'Gara and Karen Kahler of Strata Technologies, Inc. They spoke with representatives of the Baldwin Company, the current owner/developer of the property, before visiting the site.

CATEGORY OF HAZARD: OEW

PROJECT DESCRIPTION: There are many pieces of practice ordnance and shrapnel at the northern end of the site, the apparent target area. The removal and disposal of this ordnance is proposed.

AVAILABLE STUDIES AND REPORTS: None identified.

PA POC: Lee Jauman, 213-894-2865, is the Los Angeles District POC.

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
FORMERLY USED DEFENSE SITES PROGRAM
FINDINGS AND DETERMINATION OF ELIGIBILITY
BROWN FIELD BOMBING RANGE
SAN DIEGO COUNTY, CALIFORNIA
PROJECT NO. J09CA113000

FINDINGS OF FACT

1. On 21 April 1944, the United States acquired by condemnation 46.44 acres of land for a Navy bombing range in San Diego County, approximately 2 miles northeast of the Brown Field (or Otay Mesa) Air Field. On 21 July 1944, the United States also acquired an easement along the road leading to the site. (Although the acquisition and disposal documents have identical legal description of this easement, the acquisition document lists its area as 2.34 acres, while the disposal documents lists 4.67 acres.) The United States paid \$1300 for the bombing range and \$50 for the easement. In addition, the Navy acquired an unknown quantity of land adjoining the site for rock approach markers by revocable permit in November 1944; no copy of this permit could be located.
2. The Brown Field Bombing Range (also known as the Otay Mesa Bombing Range, the Otay Bombing Target, or Otay Mesa Bombing Target #32) was used by the Navy as a dive-bombing practice range. Records from November 1944 suggest that an observation tower may have been erected at or near the target range property. The site was still being used for bombing practice as late as 1950; no information was located on Department of Defense (DOD) use of the site after this date. No data were found to indicate that parties other than the Navy used the property during DOD's tenure.
3. By mid-1961, the bombing range and the easement had been determined to be surplus and assigned to the General Services Administration for disposal. By quitclaim deeds dated 23 June 1961, the 46.44 acres of easement were granted to Kuebler Ranch Inc. for \$450. Deed restrictions stated that DOD release of the bombing range was "Subject to rights of way, restrictions, reservations and easements of existing or of record." The site and easement were accepted with any improvements and appurtenances; there was no restoration provision in the deeds. The site has not been developed since DOD relinquished ownership; no data have been found to indicate that subsequent owners could have contributed to OEW contamination on the site. The Baldwin Company, the current owner, is proposing to build a business park complex on the property.

Project No. J09CA113000
Continued

DETERMINATION

Based on the foregoing findings of fact, the site has been determined to be formerly used by DOD. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 U.S.C. 2701 et seq.

6 August 1993
Date

Milton Hunter
MILTON HUNTER
Brigadier General, U.S. Army
Commanding

PROJECT SUMMARY SHEET
DERP-FUDS SITE NO. J09CA113000
BROWN FIELD BOMBING RANGE, CA

PROJECT DESCRIPTION: Brown Field Bombing Range is a former Navy practice bombing range. The area currently is undeveloped, with numerous practice bomb fragments and impact craters scattered throughout the northern portion of the site. The average crater had an approximate diameter of six feet and an approximate depth of one foot; the largest measured roughly ten feet in diameter and three feet in depth. Concrete debris that appeared to be the remnants of targets were also present. A barbed-wire fence surrounded the site.

Records indicate that the bombing range's targets consisted of a "simulated destroyer deck" and "concentric circles." According to a 1950 target status document, the range was used for "glide, dive and waterfilled" bombing.

Specific ordnance noted during the site visit appeared to be of the target marker and practice rocket varieties. Target markers are practice bombs equipped with an expelling charge of smokeless powder and a marker load of stabilized red phosphorous or zinc oxide. Practice rockets, according to available information, were inert. At the site, heavy cast-metal ordnance that appeared to be miniature target marker bodies was found in fragments, or intact with no explosive signal assemblies. Thinner metal fragments resembling rocket fins, rocket lug bands, and distorted rocket heads were found in greater abundance. No ordnance was observed outside the apparent target area at the northern end of the site.

PROJECT ELIGIBILITY: Records and site maps indicate that the target range was used by the Navy. The project has been evaluated in accordance with Appendix A of the CEMP-RT memorandum.

POLICY CONSIDERATIONS: Under current Department of Defense (DOD) policy considerations, the Brown Field Bombing Range is eligible for remediation of ordnance and explosive wastes under the Defense Environmental Restoration Program. The ordnance found at the site was generated by DOD operations. No data were found to indicate that the property was altered or beneficially used for ordnance-related purposes after DOD's use of the site. No compensation or provisions in title transfer documents absolved the government from site restoration. There are no known deed restriction violations that would disqualify the site for remediation.

Project No. J09CA113000
Continued

PROPOSED PROJECT: Further DOD response should involve a project to remediate ordnance and explosive waste (OEW) contamination at the site. The proposed project, which will be conducted by the Los Angeles Division, should include a feasibility study and an environmental impact statement or assessment, as well as ordnance removal and disposal. Under OEW risk assessment procedures, the site's Risk Assessment Code (RAC) is 2. RAC 2 sites require action to mitigate the hazard or protect personnel. A feasibility study is appropriate.

RAC: Enclosed

POC: Lee Jauman, (213) 894-2865, Los Angeles District

CONFIDENTIAL

1 June 1945 - 1 Sept 1945

QUARTERLY SUPPLEMENT TO
HISTORY OF
NAVAL AUXILIARY AIR STATION
BROWN FIELD
CHULA VISTA, CALIFORNIA

* * * * *

~~CONFIDENTIAL~~

HISTORY OF NAVAL AUXILIARY AIR STATION BROWN FIELD

1 June, 1945 - 1 September, 1945

In June 1945 most of the construction work contemplated in the expansion program of Brown Field had been completed or was nearing completion. Fleet Units had been increased to two CVL air groups and three VC squadrons and CASU-66 had been brought up to full complement to approximately 900 men. Station departments were running smoothly in the new routine established in carrying out the increased work load.

In the Ordnance Department there was a marked increase in the aircraft rocket program. More bombs were made available for practice after VE day and a much greater number of live drops were being made.

Personnel in the Operations Department was increased on June 7 with the addition of Lt. J. Pfeiler.

The Training Department increased its facilities for the handling of the larger Fleet Training Program and placed in operation a new type of free gunnery self assessing camera. Four of these cameras were installed in turrets on Squadron planes and were used in making film records of gunners errors. Chief Gunnery Freer who had been in charge of the Free Gunnery Program was transferred on 25 June and was replaced by Gunner Dutcher. On 29 June Lt. (jg) Hart reported to Brown Field for duty in the Training Department but was immediately detached on temporary duty orders to ComFair West Coast to conduct extended experiments in connection with frangible bullets for use in the training of gunners on PB4Y type aircraft.

Work on the field lighting was begun on June 27 which would furnish

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Appendix II Chronological listing of individual events important in the development of NAAS Brown Field.

June 1945

Marked increase in aircraft rocket program and number of "live drops."
Lieut. Pfeiler reported for duty in Operations.
Gh-3 returned from NAAF Thermal.
Construction started on field lighting system.
Gun camera installed in squadron planes.
John J. Quigley, Lieut. ChC detached June 7.
Lieut. F. E. Bowman reported for duty and was designated as Ship's Service Officer.

July 1945

Ch Boatswain Joseph H. Jellison reported aboard and was assigned duties as Assistant Security Officer. (13 July 1945)
Work started on standardizing field course signals to conform with CAA regulations.
Lieut. Reber transferred to Naval Hospital, Lt. A. D. Rusk assuming the duties of Operations Officer. (July 16)
FS bombs added to squadron training syllabi.
16 July Officers' Mess opened - prices 40-50-40.
Public Works installed a new electric transformer in Ships Service and erected a two post hydraulic hoist in Transportation.
Lt. C. M. Fox, Jr. was relieved as Communication Officer by Lt.(jg) C. Eckstrom.
Construction went forward on a new gate house. The new entrance allows traffic to pass on either side, thereby alleviating the traffic jams experienced in the past.
The plane washing pit was completed as far as construction was concerned, but still lacks all materials to fit it up. It is being put to use in its present condition.
An asphalt platform was laid at the rear of the Supply building to hold new plane wings.
M.A.A. forces of CASU and Ship's Company were consolidated and Chief Boatswains Mate P. Nagle appointed Chief Master at Arms.
New N2 S (Sterrman) received for use at this station.
July 23rd Lieut. Amos Kramer was detached from the station. He had been serving as Recognition Officer.
July 28th was the completion date for the game room and Library additions to Ship's Service. These were much needed and appreciated facilities for the enlisted personnel aboard.

August 1945

Work was started on runway 21. This is a 2 ball runway which had never

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permanent Range Chief and on 26 September Gunner L.A. Freer reported as Assistant Range Officer. Ranges at that time were in a partial stage of completion but were being regularly utilized in the training of squadron officers and aircrewmembers.

In October 1944, the station underwent a major change when a squadron of PB4Y and PB4Y-2 airplanes reported aboard. Its arrival made necessary a transfer of all operations from carrier type to heavy duty land based types. One of the departments which underwent the greatest degree of change was the Supply Department which returned its entire stock of fighter plane parts and supplies to Naval Air Station, San Diego, and replaced them with corresponding parts and supplies for bombers.

The Operations Department revised its methods considerably and the Training Department revised its entire program to handle bomber pilots and aircrewmembers as opposed to carrier based personnel. Similar changes took place in the Assembly and Repair Department.

Carrier based squadrons had previously been based at the field for short periods of time--usually 3 to 10 weeks. With the arrival of the bomber squadron, the short term program with frequent arrivals and departures, gave way to a long term one with the squadron forming at Brown Field with a small amount of personnel and planes but increasing to full size in both personnel and planes over a period of approximately 4 months.

Among new developments which were set up to handle bomber squadrons was a 5-turret crew trainer placed in operation by the Training Department. This device consisted of a set of PB4Y-2 turrets, each with 3A-2 gunnery projection trainers and all designed to operate simultaneously to give the effect of an actual Liberator type aircraft in flight and under attack

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of enemy fighters. All turrets were connected by interphone system and all conversations could be recorded so that voice procedure techniques and aircraft identification agility of gunners would be reviewed after every operation. This device was the first of its type and has since been adopted in ground training programs of other stations.

In October, the expansion of the Ground Training Department continued with the arrival of CSp(G) A.J. Kalstrom as free gunnery instructor. Lt. Hutchinson, Training Officer, was transferred to the Naval Hospital, San Diego, during the latter part of the month and Lt. Weems assumed full responsibility as Ground Training Officer.

On 1 October 1944, Brown Field Ship's Service, which had been operated as a division of Naval Air Station, San Diego, received word that effective 1 January 1945, it would be operated as a separate organization. A civilian bookkeeper was employed on 16 October to become familiar with changes involved and to set up procedures for this new type of operation.

Safety and Security were increased during October by the addition of improved and up to date fire equipment. On 21 October, Lt. O.P. Brown reported for duty as Operations Duty Watch Officer. The Ordnance Department during the month was effected to a very large extent by the addition of rocket firing to the training of carrier aircraft squadrons. Although the carrier type squadrons were not then permanently based at Brown Field, instructions were given to be able to provide rocket facilities at a later date. A pyrotechnic magazine was cleared and its contents replaced by rockets and a rocket loading area was designated

Lt. D.B. Kearney was advanced from Personnel to Administrative Officer on 1 November 1944.

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On 10 November, the Ship's Service Department expanded through the addition of storage and retail sales space. A civilian clerk was hired on 13 November, and on 15 November a civilian manager was employed. During the month a detachment of Marines, operating in radar detection work, which had reported four months previously for an indefinite stay, moved out.

During November, all Ordnance personnel was trained in rocket handling and loading through the Mobile Rocket Training Unit sent out from Naval Air Station, San Diego.

On 1 November, the pistol, skeet and shotgun turret ranges were completed and placed in operation.

Lt. K.L. McFarland reported for duty and became Personnel Officer on 2 November. The station football team under the leadership of Lt. Kirby won the 11th Naval District league championship in a hard fought battle.

The Medical Department announced that its facilities now included those necessary for emergency surgery and all but more complicated types of laboratory tests.

In December, 1944, PB4Y-2 squadron (VPB-122) received orders to leave Brown Field and report to Naval Auxiliary Air Station, Camp Kearney, where their personnel except a small nucleus would be redistributed among other squadrons which were under pressure to leave for immediate service. All that had been done in setting up facilities to handle heavy land based aircraft now had to be undone and facilities provided immediately for handling carrier types once more. This was definitely another major operations but it was conducted in a systematic way and, since most of the station personnel had been trained in carrier types, the change

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trips daily to San Diego. An annex to the Ship's Service was completed to house the Ship's Service office. A cold storage plant for handling beer in large quantities was installed. On 15 May, Lt. J.W. Barnett, Ship's Service Officer, was transferred and Lt. O.P. Brown, Assistant Ship's Service Officer, assumed temporary duty as Ship's Service Officer.

During May, a base radio system was installed for CASU 66 to enable CASU operators to monitor certain circuits, check on radio conversation and to supplement Brown Field communications facilities.

Boatswain Shook, Assistant Security Officer, Brig Officer, and Division Officer for General Detail, was transferred during the month. Since the arrival of Bo'sun Shook--approximately 2 months previous--several separated duties had been consolidated under his supervision in order to secure more centralized control of the station's safety and security.

During May, construction proceeded upon a separate magazine for rockets and JATO units. Constantly increasing use of these units in training had made necessary additional storage space and handling facilities.

During May, a Homoja hut project for the housing of 60 transient service families made steady progress. On 1 May, Lt.(jg) K.L. Billman assumed duties as official Wave representative relieving Lt.(jg) Killion, Communications Officer, of Wave responsibilities. Miss Billman was assigned additional duty as Personnel Relations Officer. Approximately 40 Waves had been transferred during the previous month to the newly completed Wave barracks at Brown Field and considerable organizational work remained to be done in order to provide completely satisfactory conditions.

During the month Lt. Kirby, Athletic Officer of CASU 66, who had

Medical Department represented by one CPhm and 2 hospital corpsmen. The first medical officer, Dr. J. T. Hilton (MC), reported (22 March). East wing of dispensary opened and dispensary officially commissioned (25 March). First dental officer, Lt. D. C. Carpenter (DC), reported (31 March).

April 1943

Station Order 26-43 laid the groundwork for organization whereby Fleet Units would furnish galley help, drivers and general detail to Ship's Company.

Commissary departmentalized, each directly under Commissary Officer and independent of each other. Fresh provisions procured from local dealers on open contracts.

Crash and radio equipment installed in the crash ambulance. New facilities obtained and set up for the crash jeep, hospital cub, etc. Lt. Comaich reported aboard and assigned duties as Communications Officer (21 April). Base communications were segregated as a separate department.

Lt. Bibie was relieved by Ens. C. F. Merten and 5 storekeepers were added to the personnel.

Ordnance established in April with Lt. G. E. Chaquet as first Ordnance Officer. Six 20 MM and 10 .50 cal. AA machine guns were received. Six gun pits with concrete bases and sandbag reinforced walls and 20 MM guns and mounts were installed in these pits.

Lt. Comaich assigned collateral duties as Legal Officer.

Athletics conducted within the various Fleet Units by their athletic officers.

First emergency landing call answered (24 April).

May 1943

Intra-station competitive sports program supervised by Lt. Mike Farroh of CASU.

June 1943

Ship's Service store started functioning 22 June in a space approximately 13' x 15'. First day's sales totaled \$143.51. Store hours 0900-1600, closed Sunday. Storekeeper 2c assigned to help S.S. Officer.

Up to and including 26 June a total of 142 planes had logged in and a total of 78 planes had departed from this station.

Two small Link buildings were completed and two Link trainers installed. Three instructors reported aboard. A Recognition building was finished and Lt. Hill was placed in charge.

July 1943

A laundry, cleaning and shoe repair service was inaugurated and a seaman was assigned to the division (5 July).

Ambulance Cub (AE-1) Bureau #30258 was assigned to Operations (3 July).

A fire crew was sent out regularly to the Otay bombing target to guard against fires.

Mrs. J. S. Stach came aboard as Tower Duty Officer (1 August). Supply Division moved into new building. Lt. Merten was relieved as Supply Officer by Lt.(jg) T. F. Donovan. The personnel complement was reduced to 9 for Fleet Units were to furnish others.

Lt. R. C. Weems, Jr., reported for temporary duty as Assistant Training Officer (4 August). His orders became permanent (28 August). Training Department personnel began to enlarge to handle 100-man training building.

A contract was signed for a project including Ship's Company barracks, BOQ, Brig, Waves' barracks, nose hangars and line shacks, training building, and additional storehouses.

September 1944

Commander Dennis S. Crowley, USN, came aboard as station's first regular Commanding Officer. Lt. Doane became Executive Officer.

A large cold storage plant was constructed at NAS and auxiliary air fields began drawing all fresh supplies. This was made necessary because of the inability of local dealers to always obtain fresh supplies.

All transmitters were moved and installed in the Transmitter Building with remote control in Operations Building. Field control receivers were installed in the tower.

Lt. S. L. Brinkley reported as permanent Range Officer (11 September). CSp(G) E. E. Wyckoff reported as permanent Range Chief (20 September). Gunner L. A. Freer reported as Assistant Range Officer (26 September).

Conversion of A&R Department from field handling equipment for carrier aircraft to equipment for handling patrol bomber planes was necessary.

October 1944

Word received 1 October, effective 1 January 1945, that outlying fields' Ship's Services would become separate units. A bookkeeper was hired to become familiar with setup so he could take over work involved (16 October).

Lt. O. P. Brown reported as Operations Duty Watch Officer (21 October). Additional fire equipment was obtained.

Parts for carrier type planes were returned to stock at NAS and replaced by spare parts for PB4Y's to meet needs of PB squadron reporting aboard.

Squadrons added rocket training to their syllabi. There was no separate rocket storage so pyrotechnics were removed from a magazine and replaced by rockets. A rocket loading area was designated off runway #32.

The entire program was reorganized to handle land-based aircraft (15 October). Lt. Hutchinson was transferred to Naval Hospital and Lt. Weems became Ground Training Officer (1 October).

November 1944

Lt. D. B. Kearney was appointed Administrative Officer (1 November).

An addition for storage and selling space was completed (10 November). Another clerk hired (13 November). A civilian manager was hired (15 November). Marines moved out.

Mobile rocket training school was sent out from ComFair West Coast to check out all ordnance personnel on rocket handling and loading.

The gunnery ranges were completed (1 November).

Lt. K. L. McFarland became Personnel Officer (2 November).

Station football team won 11th Naval District League championship.

Adequate facilities for emergency surgery and performing laboratory tests were on hand.

December 1944

The bomber squadron (VPB 122) left (1 December).

A new grill was opened at Ship's Service and hamburgers were sold (7 December).

From 6 June to 29 January, 1945, 207 planes logged in and 174 aircraft departed from station.

Two additional Wave Communications Officers reported. Increase in traffic handling indicated by daily average of coded group.

March	December
410	773.3

Daily average of plain message

March	December
11.5	10.5

Reconversion to carrier stock necessary.

The patrol bomber squadron departed, but the PB4Y training equipment for replacement combat crews was maintained.

There were adequate facilities for X-ray processing, for handling crashes and examination for aviation duty. The pharmacy was well stocked with all standard medicine. Had equipment for testing night vision. Two complete dental units were in operation. Total admissions for one year were 535 with an average of 5.3 for each. 5674 immunizations were given and 249 patients received diagnostic X-rays. Approximately 1800 dental treatments were given and 2000 laboratory tests made. Average daily sick call was 35.

January 1945

CASU 66 Supply was organized to furnish Fleet Units with articles of routine nature and process all requisitions of Fleet Units while aboard. This division also furnished additional storekeepers as needed to help Ship's Company personnel.

Approximately 136 combat crewmen have been trained with training equipment to date (1 January). Lt. C. K. Thompson reported for duty as Fixed Gunnery Training Officer (23 January).

Three medical officers aboard, two dental officers, and eighteen corpsmen. This complement includes personnel from Fleet Units.

February 1945

Twenty Waves reported for permanent duty (1 February). They were quartered at Ream until barracks here were furnished. Early preparations

11th NAVAL DISTRICT -- POSTWAR GUNNERY AND TARGET AREA REQUIREMENTS (CONTD)

NAME	NO.	LATITUDE	LONGITUDE	DESCRIPTION	USE	REMARKS	SUPPORTING ACTIVITY	OWNERSHIP STATUS	LEASE NO.	EXPIRATION DATE
	5	33°04'40"N	117°19'50"W	Floating Pyramid-radar rigged.	Low level bombing.	To be discontinued fiscal year 1948 because of poor physical characteristics.	11th Naval District	Off shore.		
	6	33°21'40"N	117°36'40"W	Floating Pyramid-radar rigged.	Low level bombing or miniature bombs.		11th Naval District	Off shore.		
Wilson Hook	11	34°06'30"N	120°24'12"W	Black rock 19' high.	Dive, glide angle, live bombing rocket firing high and low level.	To be discontinued fiscal year 1948 because of poor physical characteristics.	11th Naval District	Gov. owned.		
Begg Rock	12	33°21'46"N	119°41'40"W	Unpainted rock 15' high.	Testing & evaluation of pilotless aircraft by NANTC Pt. Mugu.	To be discontinued fiscal year 1948 because of poor physical characteristics.	11th Naval District	Gov. owned.		
Castle Rock	13	33°02'04"N	118°36'47"W	Unpainted Islet 72' high.	High Alt. Dive Bombing, Strafing & rocket firing Prac. Min. & Live Bombs.		11th Naval District	Gov. owned.		
Miramar	31	32°54'54"N	117°07'19"W	Concentric circles 50'-100' and 200' radii.	Dive & glide bombing controlled practice and min. bombs.		MCAS Miramar	USN owned.		
Otay B.T.	32	32°35'35"N	116°56'21"W	3 Concentric circles 50'-100' and 200' radii & simulated destroyer deck. Glide Angle Target.	Controlled practice and min. bombs, dive/glide angle calibration.		NAAS Brown Field	USN owned.		
Trabuco	35	33°37'36"N	117°36'25"W	Simulated Destroyer Deck.	Dive bombing.		MCAS El Toro (35-37)	Lease	NOY(R)-37241	30 June 1948
Clarks Dry Lake	65	33°27'07"N	116°16'00"W	3 concentric circles 50'-100' and 200' radii simulated sub. deck, 12' wide x 175' long.	High altitude & dive bombing strafing and subcalibre rocket.		NAS El Centro	USN owned.		

REPRODUCED AT THE NATIONAL ARCHIVES

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

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F-3 Letter "Historical sites within the site area of Brown Field", October 8, 1996 (B-17).

F-4 Letter "Request for Threatened, Endangered or Proposed species for the Brown Field Bombing Range, November 26, 1996 (B-20).

Cochran

IN REPLY ADDRESS
THE BUREAU OF YARDS AND DOCKS
AND REFER TO NO.

F-5-1/SJ/eg
C5-2-SD-7

NAVY DEPARTMENT

BUREAU OF YARDS AND DOCKS

WASHINGTON, D. C.

MEMORANDUM

December 30, 1942

From: Planning Section.
To: Condemnation Section.

Subject: Correction of description and declaration of taking, Civil No. 251-SD, 2.34 acres of land - access road to Otay Mesa Bombing Target, San Diego, Cal.

1. The attached letter from the Department of Justice, transmitting copy of a letter from W. J. Adams, Special Attorney to the Attorney General, pointing out errors in the mimeographed description heretofore furnished, has been carefully checked against the maps and descriptions previously furnished from the field.
2. Due to an error on the part of the surveyor in the written description contained on the vandyke, from which the attached prints are made, the maps and also the descriptions previously filed in the suit are incorrect.
3. The maps and descriptions hereto attached are to be substituted for those previously filed in the case.

W. P. Trueman



F-1

ADDRESS REPLY TO
"THE ATTORNEY GENERAL"
AND REFER TO
INITIALS AND NUMBER

DEPARTMENT OF JUSTICE
WASHINGTON, D. C.

NA 11/21-13
75

RJL-ICH

33-5-491-3

December 3, 1942

Chief, Bureau of Yards and Docks
Real Estate Division
Department of the Navy
Washington, D. C.

Dear Sir:

Reference is made to the condemnation proceeding entitled United States v. An Estate or Interest in 2.34 Acres of Land in San Diego County, California, Claude R. Kuebler, et al., No. 251-SD Civil, for use in connection with access road to Otay Mesa Bombing Target, San Diego, California.

Enclosed herewith is copy of letter, which is self-explanatory, from Wm. J. Adams, Special Attorney at San Diego, California, to which is attached Exhibit A in the above-entitled proceeding with corrections in description noted thereon. The error in description apparently makes it necessary for amended declaration of taking to be filed, also authority for dismissing or excluding the lands erroneously described in the original description so as to remove any cloud upon the title thereto. Kindly advise your desires in the matter.

Respectfully,
For the Attorney General

Norman M. Littell
NORMAN M. LITTELL
Assistant Attorney General

Enclosure
No. 968859



206773

F-1

WELI/MI-13
F-5-7A/HBM/ncl
GS-2-ED-7

1 February 1944.

The Commissioner,
Public Buildings Administration,
Washington 25, D. C.

Sirs:

The United States of America became vested with a perpetual easement for an access road in 2.86 acres of land, more or less, in San Diego County, California pursuant to a declaration of taking and amendment thereto filed November 24, 1943, and January 23, 1943, respectively, in the United States District Court for the Southern District of California, Southern Division, in the case entitled United States of America v. 2.86 acres of land, more or less, in San Diego County, California, Claude H. Kuebler, et al., Civil No. 251-23. This land was acquired for an access road to landing target site used in connection with the United States Naval Air Station, San Diego, California. The sum of \$80.00 was deposited into the registry of the court at the time of the filing of the declaration of taking as estimated just compensation.

It is requested that clearance of the above-mentioned land be granted.

Very truly yours,

JOHN J. GOVERNOR,
By direction of the Chief of the
Bureau of Yards and Docks.

CC: Op20
Coml
BuAero
CO US NAV, San Diego, Calif.

See Estate Files

Listed Species in SAN DIEGO County

COMMON NAME	SCIENTIFIC NAME	FEDERAL STATUS	STATE STATUS
CALIFORNIA BROWN PELICAN	PELECANUS OCCIDENTALIS CALIFORNICUS (NESTING COLONY)	Endangered	Endangered
CALIFORNIA BLACK RAIL	LATERALLUS JAMAICENSIS COTURNICULUS	Sp of Concern (C2)	Threatened
LIGHT FOOTED CLAPPER RAIL	RALLUS LONGIROSTRIS LEVIPES	Endangered	Endangered
WESTERN SNOWY PLOVER	CHARADRIUS ALEXANDRINUS NIVOSUS	Threatened	None
CALIFORNIA LEAST TERN	STERNA ANTILLARUM BROWNI	Endangered	Endangered
WESTERN YELLOW BILLED CUCKOO	COCCYZUS AMERICANUS OCCIDENTALIS	None	Endangered
WILLOW FLYCATCHER	EMPIDONAX TRAILLII	None	Endangered
BANK SWALLOW	RIPARIA RIPARIA	None	Threatened
CALIFORNIA GNATCATCHER	POLIOPTILA CALIFORNICA	Threatened	None
LEAST BELLS VIREO	VIREO BELLII PUSILLUS	Endangered	Endangered
BELDINGS SAVANNAH SPARROW	PASSERCULUS SANDWICHENSIS BELDINGI	Sp of Concern (C2)	Endangered
DESERT PUFFISH	CYPRINODON MACULARIUS	Endangered	Endangered
TIDEWATER GOBY	EUCYCLOGOBIUS NEWBERRYI	Endangered	None
UNARMORED THREESPINE STICKLEBACK	GASTEROSTEUS ACULEATUS WILLIAMSONI	Endangered	Endangered
PACIFIC POCKET MOUSE	PEROGNATHUS LONGIMEMBRIS PACIFICUS	Endangered	None
STEPHENS KANGAROO RAT	DIPODOMYS STEPHENSI	Endangered	Threatened
PENINSULAR BIGHORN SHEEP	OVIS CANADENSIS CREMNOBATES	Proposed Endangered	Threatened
BAREFOOT BANDED GECKO	COLEONYX SWITAKI	Sp of Concern (C2)	Threatened
ARROYO SOUTHWESTERN TOAD	BUFO MICROSCAPHUS CALIFORNICUS	Endangered	None
RIVERSIDE FAIRY SHRIMP	STREPTOCEPHALUS WOOTTONI	Endangered	None
SAN DIEGO BUTTON-CELERY	ERYNGIUM ARISTULATUM VAR PARISHII	Endangered	Endangered
ENCINITAS BACCHARIS	BACCHARIS VANESSAE	Proposed Endangered	Endangered
OTAY TARPLANT	HEMIZONIA CONJUGENS	Proposed Endangered	Endangered
MOHAVE TARPLANT	HEMIZONIA MOHAVENSIS	Sp of Concern (C2*)	Endangered
LAGUNA MTNS ASTER	MACHAERANTHERA ASTEROIDES VAR LAGUNENSIS	Sp of Concern (C2)	Rare
GANDER'S RAGWORT	SENECIO GANDERI	Sp of Concern (C2)	Rare
SLENDER-POD JEWELFLOWER	CAULANTHUS STENOCARPUS	Sp of Concern (C2)	Rare
GAMBEL'S WATERCRESS	RORIPPA GAMBELLII	Endangered	Threatened
CUYAMACA LAKE DOWNINGIA	DOWNINGIA CONCOLOR VAR BREVIOR	Proposed Endangered	Endangered
SHORT-LEAVED DUDLEYA	DUDLEYA BLOCHMANIAE SSP BREVIFOLIA	Proposed Endangered	Endangered
PEIRSON'S MILK-VETCH	ASTRAGALUS MAGDALENAE VAR PEIRSONII	Proposed Endangered	Endangered
COASTAL DUNES MILK-VETCH	ASTRAGALUS TENER VAR TITI	Proposed Endangered	Endangered
SAN DIEGO THORN MINT	ACANTHOMINTHA ILICIFOLIA	Proposed Endangered	Endangered
WILLOWY MONARDELLA	MONARDELLA LINOIDES SSP VIMINEA	Proposed Endangered	Endangered
SAN DIEGO MESA MINT	POGOGYNE ABRAMSII	Endangered	Endangered
OTAY MESA MINT	POGOGYNE NUDIUSCULA	Endangered	Endangered
PARISH'S MEADOWFOAM	LIMNANTHES GRACILIS SSP PARISHII	Proposed Threatened	Endangered
ORCUTT'S SPINEFLOWER	CHORIZANTHE ORCUTTIANA	Proposed Endangered	Endangered
CUYAMACA LARKSPUR	DELPHINIUM HESPERIUM SSP CUYAMACAE	Sp of Concern (C2)	Rare
SMALL-LEAVED ROSE	ROSA MINUTIFOLIA	Sp of Concern (C2)	Endangered
BORREGO BEDSTRAW	GALIUM ANGUSTIFOLIUM SSP BORREGOENSE	Sp of Concern (C2)	Rare
SALT MARSH BIRD'S-BEAK	CORDYLANTHUS MARITIMUS SSP MARITIMUS	Endangered	Endangered
MEXICAN FLANNELBUSH	FREMONTODENDRON MEXICANUM	Proposed Endangered	Rare
DEHESA NOLINA	NOLINA INTERRATA	Proposed Threatened	Endangered

THREAD-LEAVED BRODIAEA
DUNN'S MARIPOSA LILY
CALIFORNIA ORCUTT GRASS
Totals

BRODIAEA FILIFOLIA
CALOCHORTUS DUNNII
ORCUTTIA CALIFORNICA

Proposed Threatened Endangered
Sp of Concern (C2) Rare
Endangered Endangered

20 Animals
27 Plants
Return to species by county.

rev:07/08/96



South Coastal Information Center
Social Science Research Laboratory
College of Arts and Letters
San Diego State University
5500 Campanile Drive
San Diego CA 92182-4537

(619) 594-5682

October 8, 1996

SIOAC-ESL (L.Dauphin)
Director
USADACS
Savanna, IL 61074-9639

Dear Mr. Dauphin,

Following our telephone conversation on September 30, 1996, I consulted the Information Center's Assistant Coordinator as to how we should proceed with your request. I was instructed to perform the record search, and send you this letter, which describes the steps that need to be taken for you to receive the search.

We have conducted a records search as per your request for the Brown Field Bombing Range project located on the Otay Mesa USGS 7.5-minute quadrangle map in San Diego County.

There are fifty-three prehistoric sites within one mile of your project area. They are made up of habitation sites, food processing sites, and possible manufacturing and/or procurement sites. There are also five historic habitation sites within one mile of your project area.

The cultural resources present in the above project areas may require significant mitigation if they are to be utilized. Cultural resources are nonrenewable and often easily damaged; their scientific and aesthetic values are significantly impaired by disturbance.

Federal law allows us to release our record search information to only the following qualified individuals: archaeologists, architects or historians. Because there are cultural resources in your project area we recommend that you contact a qualified archaeologist to review this record search.

Your qualified professional can receive the site maps and the site forms by sending us a letter, at the above address, requesting the information. The qualified professional will also need to include their vitae or resume, and a copy of the Agreement of Confidentiality which is enclosed. Be sure to give the project name and who the requested the search in the letter. Please let us know when we can be of further service.

Sincerely,

Gabrielle Jamison
Research Assistant
South Coastal Information Center
San Diego State University



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
Carlsbad Field Office
2730 Loker Avenue West
Carlsbad, California 92008

November 26, 1996

Mr. Mike Harper
Department of the Army
U.S. Army Defense Ammunition Center and School
Savanna, IL 61074-9639

Attn: Larry Dauphin

Re: Request for Threatened, Endangered, or Proposed Species for the Brown Field Bombing Range, San Diego County, and Carrizo Impact Area and Holtville Rocket Target 1R (#94) in Imperial County, California (1-6-97-SP-15)

Dear Mr. Harper:

The Fish and Wildlife Service (Service) has reviewed the information provided by your letter dated September 24, 1996, in an effort to assess the potential for federally listed threatened or endangered species at the referenced sites. The U.S. Army Technical Center for Explosives Safety is supporting the U.S. Army Corps of Engineers in assessing formerly used defense sites for potential ordnance and explosives contamination. To assist you in evaluating the potential for conflicts between threatened and/or endangered species and the proposed actions on the sites, we are providing three lists (see enclosed) which contain species that occur in the general areas. The enclosed lists partially fulfill the requirements of the Service under section 7 of the Endangered Species Act of 1973, as amended (Act). We recommend that you seek assistance from a biologist familiar with the project sites and with the listed species in assessing the potential for direct, indirect and cumulative impacts resulting from project implementation.

Section 7(a)(2) of the Act requires a Federal Agency, in consultation with, and with the assistance of the Service, to insure that any action it authorizes, funds, or carries out, is not likely to jeopardize the continued existence of any listed species or result in the destruction or adverse modification of critical habitat. To meet this requirement, Biological Assessments are required under section 7 of the Act if listed species or critical habitat may be present in the area affected by any major construction activity¹. Federal agencies have the responsibility to

¹ "Construction Activity" means any Federal action which significantly affects the quality of the human environment designed primarily to result in the building or erection of man-made structures such as dams, buildings, roads, pipelines, channels, and the like. This includes Federal actions such as permits, grants, licenses, or other forms of Federal authorizations or approvals which may result in construction.

prepare a Biological Assessment if the proposed action is a major construction activity that requires the preparation of an Environmental Impact Statement. If a Biological Assessment is not required, your agency still has the responsibility to review its proposed activities and determine whether the listed species will be affected. Moreover, "action" means all activities or programs authorized, funded, or carried out, in whole or in part, over which Federal agencies retain discretion. In addition, "action area" means all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action.

Section 7(d) of the Act prohibits Federal agencies and applicants from making any irreversible or irretrievable commitment of resources which has the effect of foreclosing the formulation or implementation of reasonable and prudent alternatives which would avoid jeopardizing the continued existence of listed species or resulting in the destruction of critical habitat. During the assessment or review process, you may engage in planning efforts, but may not make any irreversible commitment of resources. Such a commitment could constitute a violation of section 7(d) of the Act. If a listed species may be adversely affected, agencies should request, in writing through our office, formal consultation pursuant to section 7(a)(2) of the Act. Informal consultation should be used to exchange information and resolve conflicts with respect to listed species prior to a written request for formal consultation.

When the agency determines that its action is likely to jeopardize the continued existence of any proposed species or result in the destruction or adverse modification of proposed critical habitat, a Federal agency is required to initiate a conference with the Service. Conferences are informal discussions between the Service and the Federal agency, designed to identify and resolve potential conflicts between an action and proposed species or proposed critical habitat at an early point in the decision making process. The Service makes recommendations, if any, on ways to minimize or avoid adverse effects of the action. These recommendations are advisory because the jeopardy prohibition of section 7(a)(2) does not apply until the species is listed or the proposed critical habitat is designated, and the Federal agency determines whether or not formal consultation is required. The conference process fills the need to alert Federal agencies of possible steps that an agency might take at an early stage to adjust its actions to avoid jeopardizing a proposed species.

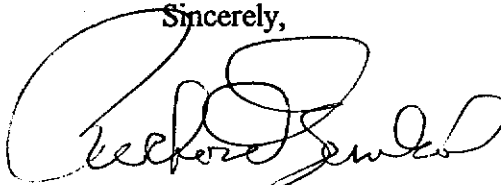
Species of concern are taxa which currently are afforded no Federal status but are included for the purpose of notifying a project proponent in advance of possible proposals and listings which at some time in the future may have to be considered in your planning activities. If early evaluation of a project indicates that it is likely to adversely impact a species of concern, we recommend that the Federal agency seek technical assistance from this office in an effort to avoid or reduce impacts to such species.

In addition to the species on the provided lists, the Service is also concerned about three plant communities which could exist in the Brown Field Bombing Range. The names of these three sensitive plant communities are the San Diego Mesa claypan vernal pools, scrub oak, and maritime succulent scrub. Although these plant communities are not afforded any federal

protection, we urge you to avoid or minimize impacts to them. Some of the impacts include dust residue created by dirt roads, widening or increasing roads, farm equipment traffic, border patrol vehicle and immigrant foot traffic, fire, blight, grazing, and urban encroachment.

The Service appreciates close coordination with the Federal agency (and applicant) during the preparation of the Biological Assessment. Our goal would be to provide technical assistance that identifies specific features that could be incorporated into the project description to avoid adverse impacts to listed species. Should you have any questions regarding the species listed or your responsibilities under the Act, please contact Beverlee Mare'chal of my staff at (619) 431-9440.

Sincerely,



for Gail C. Kobetich
Field Supervisor

3 Enclosures

Listed Endangered, Threatened,
Proposed, and Species of Concern that May Occur in the
Jurisdiction of the Brown Field Bombing Range
San Diego County, California

November 26, 1996

Common Name	Scientific Name	Status
<u>BIRDS</u>		
least Bell's vireo	<u>Vireo bellii pusillus</u>	E
coastal California gnatcatcher	<u>Polioptila californica californica</u>	T
coastal cactus wren	<u>Campylorhynchus brunneicapillus</u>	None
Belding's savannah sparrow	<u>Passerculus sandwichensis beldingi</u>	None
<u>PLANTS</u>		
San Diego button celery	<u>Eryngium aristulatum var. parishii</u>	E
California Orcutt grass	<u>Orcuttia californica</u>	E
Otay mesa mint	<u>Pogogyne nudiuscula</u>	E
Mexican flannelbush	<u>Fremontodendron mexicanum</u>	PE
Otay tarplant	<u>Hemizonia conjugens</u>	PE
prostrate navarretia	<u>Navarretia fossalis</u>	PT
varigated dudleya	<u>Dudleya variegata</u>	None
San Diego ambrosia	<u>Ambrosia pumila</u>	None
San Diego barrel cactus	<u>Ferocactus viridescens</u>	None
little mousetail Nuttall's scrub oak	<u>Myosurus minimus ssp. apus</u>	None

Enclosure 1

small-leaved rose	<u>Quercus pumosa</u>	None
	<u>Rosa minutifolia</u>	None
<u>REPTILES</u>		
San Diego horned lizard		
orange-throated whiptail	<u>Phrynosoma coronatum blainvillei</u>	None
	<u>Cnemidophorus hyperythrus</u>	None

- E: Endangered
- T: Threatened
- PE: Proposed Endangered
- PT: Proposed Threatened
- None: Species of Concern are taxa for which the Service is compiling information on population status and trends

Enclosure 1

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX G

REAL ESTATE DOCUMENTS

APPENDIX G

REAL ESTATE DOCUMENTS

Table of Contents

G-1 Memorandum with Endorsements, "Acquisition of auxiliary land fields in the vicinity of San Diego, California", August 15, 1940 (B-22).

G-2 GSA, "Report of Excess Property, for Otay Mesa Bombing Target #32...", (B-24).

G-3 GSA, Real Property Transaction with Quitclaim Deed (B-24).

G-4 1996 San Diego Assessor's Map (B-25).

COPY

7 September 1940.

MAIL/NI-13
Op-30D-MG
MAIL/NI-9(400708)
Serial 232930

4th Endorsement

To:

From:

Info:

Subject:

Chief of Naval Operations.
Secretary of the Navy (Judge Advocate General).
Acquisition of auxiliary landing fields in the vicinity of San Diego, California (Ltr. Comdt. MAILND NI-13/NI-9 (Serial P-889), dated 15 Aug. 1940).

Forwarded, concurring in the recommendations of the Chief of the Bureau of Aeronautics and the Chief of the Bureau of Yards and Docks, in the second and third endorsements, that appropriate action be taken to acquire the eleven fields described in the basic letter.

C.C.Hartigan

C. C. HARTIGAN,
By Direction

Copy to: BuAer
BuY&D

COPY

ND11-9/1-13
21-9/1-13

September 5, 1940

ND11/N1-13

3rd Endorsement

From: Chief of the Bureau of Yards and Docks
To: Judge Advocate General,
Via: Chief of Naval Operations.
Subject: Acquisition of auxiliary landing fields in
the vicinity of San Diego, California--Letter
from Commandant, Eleventh Naval District,
N1-13/N1-9 (Serial P-889), dated August 15,
1940.

1. Forwarded. The Bureau of Yards and Docks, concurs in the recommendation of the Bureau of Aeronautics contained in the Second Endorsement.

2. Upon receipt of information as to the cost, this Bureau will prepare the necessary accounting requisition to provide a check for payment of these properties.

L.B.Combs

L. B. Combs
Assistant to Chief of Bureau
by direction

CC - Bureau of Aeronautics

C O P Y

Aer-F-2-PMQ
N1-9/NA11

September 3, 1940

2nd Endorsement

From: The Chief of the Bureau of Aeronautics.
To: The Chief of Naval Operations.
Via: The Chief of the Bureau of Yards and Docks.
SUBJECT: Acquisition of auxiliary landing fields
in the vicinity of San Diego, California.

1. Forwarded.

2. The present plans of this Bureau are to acquire the outlying fields used at the Naval Air Station, San Diego. An item of \$251,000 for this purpose is indicated in the sum appropriated for the development of the Naval Air Station, San Diego by H. R. 10055.

3. It is noted in the enclosure to the basic letter that the fields listed consist of eleven outlying fields in seventeen parcels of land. It is recommended that appropriate action be taken to acquire the eleven fields described in the basic letter.

J. H. Towers

J. H. TOWERS
Rear Admiral U.S.N.
Chief of the Bureau of Aeronautics

C O P Y

IN REPLY ADDRESS
JUDGE ADVOCATE GENERAL OF THE NAVY
AND REFER TO NO.

WASHINGTON, D. C.
DEPARTMENT OF THE NAVY
OFFICE OF THE JUDGE ADVOCATE GENERAL

NALL/N1-9(400708)U

DEPARTMENT OF THE NAVY

OFFICE OF THE JUDGE ADVOCATE GENERAL

WASHINGTON, D. C.

August 23, 1940

First Endorsement

From: The Judge Advocate General of the Navy
 To: The Chief of Naval Operations

Via: 1. The Chief of the Bureau of Aeronautics
 2. The Chief of the Bureau of Yards and Docks

Subject: Acquisition of auxiliary landing fields
 in the vicinity of San Diego, California.

1. Comment and recommendation are requested with return of papers.

2. Information is requested as to whether all of the auxiliary fields listed herein are recommended to be acquired for naval aviation purposes.

to furnish...
 C. F. Martin

C. F. Martin
By direction

the fields...
 C. F. Martin

3. In addition...
 C. F. Martin

REPRODUCED
Commandant's Office
ELEVENTH NAVAL DISTRICT
San Diego, California

August 15, 1940

NI-9
Serial P-889)

FROM: The Commandant.
To: The Judge Advocate General.
SUBJECT: Acquisition of auxiliary landing fields in the vicinity of San Diego, California.

References: (a) JAG's lettr. NA11/NI-9 (400708)U, of August 6, 1940.
(b) Budooks's lettr. ND11/NI-13, June 20, 1940.
(c) Comeleven Des. 082301, of August 8, 1940.
(d) JAG's Des. 132106, of August 13, 1940.

Enclosures: (A) List of auxiliary fields, showing owners, areas and prices asked.
(B) List of auxiliary landing fields giving best available description.

1. By reference (c) the Commandant was requested to furnish a complete description, together with names and addresses of the owners, of the respective lands selected to be acquired for the auxiliary landing fields. By reference (b) the Commandant was requested to furnish similar information, but in greater detail, for the "Rosedale" auxiliary landing field.

2. Enclosure (A) herewith gives the names of the fields, the owners and addresses, the areas, the prices asked per acre, the total prices asked per field, and the appraised prices informally made by Mr. LeRoy E. Goodbody. Enclosure (B) gives the best description at present available of the various areas in question.

3. In addition to the above information, reference requested blue prints or plats of the areas, references to maps and records of deeds, or other instruments of title, or descriptions by metes and bounds, unless the property can be

August 15, 1940

fully described by lot number or numbers, and appraisals giving the names of individual owners in each instance, and the areas involved. This further information is not, as yet, available, but surveys are now under way to complete the plats and secure the metes and bounds descriptions of the various parcels. Records are being searched, and this information will be forwarded as soon as obtained.

4. Reference (c) requested Fred Prakel and Harry Jackson, HOLA appraisers, who have reported in connection with appraisal of Rosedale Field, to be further authorized via HOLA channels to appraise all other auxiliary landing fields now being considered for purchase.

5. In answer to reference (c) reference (d) requested by airmail the descriptions and ownerships of the auxiliary landing fields, which is enclosed herewith. While the property descriptions, as given on Enclosure (B) are not sufficient for legal purposes, they are sufficient to permit the appraisers to identify and locate the areas to be appraised, and to permit the appraisals to be made on an acreage basis.

6. It is therefore requested that the necessary orders be issued to have Messrs. Prakel and Jackson perform this work.

C. A. Blakely

C. A. BLAKELY



1047-1177
DISTRICT PUBLIC WORKS OFFICE
ELEVENTH NAVAL DISTRICT
SAN DIEGO 32, CALIFORNIA

IN REPLY REFER TO:
Ser 13937/E-220

17 AUG 1960

Rec'd 8/18/60

General Services Administration
Public Buildings Service
Acquisition and Disposal Division
49 Fourth Street
San Francisco 3, California

Gentlemen:

In accordance with the Regulations of the General Services Administration, Title 2, Real Property Management, there are transmitted herewith in triplicate, as enclosure (1), Standard Forms 118 and 118b for the purpose of reporting Otay Mesa Bombing Target #32, San Diego County, California, excess to needs of the Department of the Navy. The excess property consists of 46.44 acres of land and an easement for access purposes to the target area. This easement, a strip 20 feet wide, contains 4.67 acres, more or less. An attorney's report on title and descriptions of the properties are attached to Standard Form 118b. Muniments of title are submitted as enclosure (2).

It will be noticed from the enclosed maps and description of the easement that the roadway to the target area passes through the barnyard and corral of the Kuebler Ranch. In order to make this passage, it is necessary to open and close three gates to prevent cattle and horses from escaping. This circumstance is explained as follows: The United States condemned the 46 acres of land, more or less, in February 1942. Two separate former owners, the Otay Agricultural Corporation and Mr. and Mrs. Claude R. Kuebler, gave whole-hearted cooperation and patriotic support to the Government during establishment of the target range. Mr. Claude R. Kuebler passed away during March 1960. His widow, Cieila B. Kuebler, still residing at the ranch, stated to representatives of this office that when the target area was taken, the Navy was permitted access to the target area over ranch roads. These roads, then as now, pass through the fenced barnyard and corrals. The military requested and was granted permission to put their own padlock on the barnyard gate. Mrs. Kuebler also stated that she and her husband were told by a representative of the Navy at that time that the road would be used only for military use.

During November 1942, the Government filed condemnation proceedings for acquisition of a perpetual easement over the existing roadway and it was still the understanding of the former owners that the Government would relinquish the easement right after the target area was no longer required.

Mrs. Kuebler is now concerned as to what may happen if the target area is sold to someone other than the former owners and the easement rights transferred with the property. The target area land has little value for agricultural use, being of a gravel-type content and strewn with small- to medium-sized boulders. Mrs. Kuebler and the Otay Ranch Corporation desire to acquire the property, mainly for the purpose of closing a gap within the boundaries of their respective properties and to establish and protect clear title thereto by extinguishing the road easement.

The District Public Works Officer strongly recommends that the former owners be given every lawful consideration for acquisition of their original properties, either by a negotiated sale or by a chance to meet or beat other offers for the property.

No temporary agreements to use the subject property have been issued.

Very truly yours,



Encl:

- (1) Standard Forms 118 and 118b with attachments, in triplicate
- (2) Copies of Documents Civil 151-SD and Civil 251-SD with attachments

W. M. BROWN
Captain, CEC, USN
Assistant DPWO for Planning and
Real Estate

PUBLIC BUILDINGS SERVICE
417 South Hill Street, Room 1163
Los Angeles 13, California

May 26, 1961

Otay Mesa Bombing Target #32
San Diego County, California
H-Calif-710

Kuebler Ranch, Inc.
373 E Street
Chula Vista, California

Attention: Mr. Lawrence C. Kuebler

Gentlemen:

Your offer for the access road easement of subject facility as outlined in your letter of February 21, 1961, has been approved by the Administrator of General Services Administration, subject only to clearance by the appropriate Committees of Congress. }

Unless advised to the contrary on or before June 13, 1961, you will then be authorized to assume possession as of that date, and the necessary legal documents will be prepared by our Regional Counsel in San Francisco and sent to you as soon as possible after that effective date.

Sincerely yours

/s/R. T. Hollingsworth

R. T. Hollingsworth
Realty Officer
Acquisition & Disposal
Field Office

RTHollingsworth/mw

cc: Disposal Branch, A&D, SF 30

G-3

GENERAL SERVICES ADMINISTRATION
PUBLIC BUILDINGS SERVICE

DETERMINATION OF SURPLUS
(Excess Real Property and Related Personal Property)

1. GSA REGIONAL OFFICE Reg. 9 - San Francisco	2. GSA CONTROL NUMBER N-Calif-710
3. HOLDING AGENCY NUMBER 11-22	4. TYPE OF APPROVAL REQUIRED <input checked="" type="checkbox"/> A. REGIONAL ONLY <input type="checkbox"/> B. CENTRAL OFFICE & R
5. DATE REPORT OF EXCESS RECEIVED 8-18-60*	

6. PROPERTY IDENTIFICATION
Otay Mesa Bombing Target # 32
San Diego County, California

7. TYPE OF DETERMINATION (Check one)

A. ORIGINAL B. CORRECTION (If B, C, or D are checked, explain details in Block 11.)
 C. RESCISSION D. OTHER

8. PROPERTY DETERMINED SURPLUS

9. PROTECTION AND MAINTENANCE OF PROPERTY

A. ANNUAL COST \$ None
B. DATE GSA LIABLE FOR P&M COST 10-1-61

A. BUILDINGS, STRUCTURES, UTILITIES, AND MISC. FACILITIES			
USE	NO. BUILDINGS	AREA (Sq. Ft.)	ACQUISITION COST
(1) OFFICE			
(2) STORAGE			
(3) OTHER (Specify)			
(4) TOTAL SPACE			
(5) TOTAL ACQUISITION COST.....			
B. LAND			
GOVT'S INTEREST	ANNUAL RENTAL	AREA (Acres)	ACQUISITION COST
(1) FEE		46.44	\$ 1,300
(2) LEASED	\$		
(3) OTHER (Specify)		4.67	50
(4) TOTAL LAND	\$	51.11	\$ 1,350
C. RELATED PERSONAL PROPERTY (Acquisition Cost)			\$
D. GRAND TOTAL ACQUISITION COST OF PROPERTY DETERMINED SURPLUS (Lines A(5), B(4) and C).			\$ 1,350

10. FINDINGS (Check appropriate statements & explain in Block 11)

A. THE EXCESS PROPERTY HAS BEEN SCREENED AGAINST THE KNOWN DEFENSE AND CIVILIAN REQUIREMENTS OF THE FEDERAL GOVERNMENT. IT IS NOT REQUIRED FOR THE NEEDS AND RESPONSIBILITIES OF ALL FEDERAL AGENCIES AND IS DETERMINED TO BE SURPLUS PROPERTY.

B. THE REQUIREMENT FOR SCREENING OF THE EXCESS PROPERTY HAS BEEN WAIVED AND IT IS DETERMINED TO BE SURPLUS PROPERTY.

C. THE PROPERTY IS SUBJECT TO DISPOSAL BY THE HOLDING AGENCY.

D. THE PROPERTY IS SUBJECT TO DISPOSAL BY THE GENERAL SERVICES ADMINISTRATION.

11. REMARKS (Use reverse if more space is required)

* Report of Excess accepted 8-25-60. Advance Notice rec'd 7-1-60 and Notice of Availability mailed 7-18-60.

10.A. - Screened by circularization of Notice of Availability dated 7-18-60 to Federal agencies pursuant to Volume GS 6-3, 501.03, Chapter V.

10.D. - GSA is the disposal agency under the provisions of GSA Reg. 2-V-201.03.

CENTRAL OFFICE APPROVAL (When required)		REGIONAL OFFICE APPROVAL	
SIGNATURE AND TITLE	DATE	SIGNATURE AND TITLE <i>A. D. Wilson</i>	DATE
		A. D. Wilson, Realty Assistant Disposal Branch	8-29-60

REQUEST FOR VALUATION SERVICE

This form is for use in requesting valuation service of real property and related personal property. If request originates in the Central Office, submit original to Director, Appraisal Division; if in the regional office, to the Regional Appraiser. Requesting office retains duplicate copy.

2. REQUESTING OFFICE

Disposal Branch, PBS, GSA
San Francisco, California

3. NAME OF REQUESTING OFFICER

E. A. Saylor, Jr., Acting Chief, Disposal
Branch, A & D Division, PBS

4. PURPOSE OF APPRAISAL IS TO ESTIMATE (If "other service," check item 4.g., and complete)

<input type="checkbox"/>	a. FAIR MARKET VALUE (ACQUISITION)	<input type="checkbox"/>	d. FAIR CONSIDERATION FOR A PARTIAL RELEASE UNDER AN EXISTING MORTGAGE
<input checked="" type="checkbox"/>	b. FAIR MARKET VALUE (DISPOSAL)	<input type="checkbox"/>	e. INSURABLE VALUE
<input type="checkbox"/>	c. FAIR ANNUAL RENTAL	<input type="checkbox"/>	f. FAIR MARKET VALUE (PROPERTY TO BE LEASED TO U.S.)
<input type="checkbox"/>	g. OTHER SERVICE (Specify)		

5. ADDRESS OF PROPERTY (Number, street, city and state)

San Diego County, California

6. DATE OF ACQUISITION*

1942

7. NAME BY WHICH PROPERTY POPULARLY KNOWN, OR PLANCOR NUMBER

Otay Mesa Bombing Target # 32 (N-Calif-710)

8. ORIGINAL COST*

\$1,350

9. LEGAL DESCRIPTION OF PROPERTY TO BE APPRAISED (Continue on reverse, if necessary. Refer to item number)

a. LOT NO., BLOCK NO., NAME OF SUBDIVISION, AND CITY OR COUNTY

b. METES AND BOUNDS

See attached documents.

c. OTHER

10. BRIEF DESCRIPTION OF IMPROVEMENTS (Buildings, structures, above-ground utilities, etc.)

None

11. BRIEF DESCRIPTION OF MACHINERY, EQUIPMENT, OR OTHER PERSONALTY

None

12. PRESENT OWNER (Identity and address)

District Public Works Office
Eleventh Naval District
San Diego 32, California

13. ATTACHMENTS (List here, if available, such data and documents as may be attached; for example, maps, plot plans, working drawings, land surveys, inventories, together with the legal description of all easements, encroachments, liens, existing leases, or other encumbrances, which might affect the marketability of the property specified. Use additional sheets, if necessary. Refer to item number)

(1) Our entire file. (2) One copy Navy's ltr 8-17-60. (3) 4 copies each SF-118, SF-118b, Attorney's Report, and legal descriptions. (4) 4 copies map of 46.44-acre area. (5) 4 copies map of access easement.

14. SIGNATURE OF REQUESTING OFFICER

15. DATE OF REQUEST

8-31-60

* Government-owned property ONLY.

**COI OF EXCESS
 REAL PROPERTY**

1. HOLDING AGENCY NO. **42**
 2. DATE OF REPORT **AUG 15 1960**
 DATE RECEIVED (GSA use only) **8-18-60**
 GSA CONTROL NO. (GSA use only) **W-Calif-710**

3. TO (Furnish address of GSA regional offices)
**General Services Administration
 49 Fourth Street
 San Francisco 3, California**

4. FROM (Name and address of holding agency)
**Department of the Navy
 Washington 25, D. C.**

5. NAME AND ADDRESS OF REPRESENTATIVE TO BE CONTACTED
**Mr. R. G. Muench, Director, Real Estate Div.,
 District Public Works Office, 11th Naval Dist.,
 San Diego 32, California**

6. NAME AND ADDRESS OF CUSTODIAN
**Commander, Naval Air Bases, Eleventh Naval
 District, Naval Air Station North Island,
 San Diego, California**

7. PROPERTY IDENTIFICATION
**Otay Mesa Bombing Target #32, Naval Auxiliary
 Air Station, Brown Field, Chula Vista, Cal.**

8. PROPERTY ADDRESS (Give full location)
**2 1/2 miles NE of Brown Field; about 3 miles
 north from Mexican border**

9. SPACE DATA						10. LAND	
USE	NUMBER OF BUILDINGS (1)	FLOOR AREA (Sq. ft.) (2)	NUMBER OF FLOORS (3)	FLOOR LOAD CAPACITY (4)	CLEAR HEADROOM (5)	(From SF 118b)	ACRE OR SQUARE FEET
A. OFFICE						A. FEE	46.44
B. STORAGE						B. LEASED	
C. OTHER (See 9 F)						C. OTHER	4.67
D. TOTAL (From SF 118a)						D. TOTAL	51.11
E. GOV'T INTEREST:						F. SPECIFY "OTHER" USE ENTERED IN C ABOVE	
(1) OWNER						Easement for roadway. From County road through private property to Target #32.	
(2) TENANT							

11. COST TO GOVERNMENT

ITEM	SCHEDULE	COST
A. BUILDINGS, STRUCTURES, UTILITIES, AND MISCELLANEOUS FACILITIES	A (Col. d)	\$
B. LAND	B (Col. f)	1,350.00
C. RELATED PERSONAL PROPERTY	C (Col. h)	
D. TOTAL (Sum of 11A, 11B, and 11C)		\$1,350.00
E. ANNUAL PROTECTION AND MAINTENANCE COST (Government-owned or leased) None		

12. LEASEHOLD(S) DATA (Use separate sheet if necessary)

A. TOTAL ANNUAL RENTAL	\$
B. ANNUAL RENT PER SQ. FT. OR ACRE	\$
C. DATE LEASE EXPIRES	
D. NOTICE REQUIRED FOR RENEWAL	
E. TERMINAL DATE OF RENEWAL RIGHTS	
F. ANNUAL RENEWAL RENT PER SQ. FT. OR ACRE	\$
G. TERMINATION RIGHTS (in days)	
LESSOR	GOVERNMENT

13. DISPOSITION OF PROCEEDS

14. TYPE OF CONSTRUCTION

15. HOLDING AGENCY USE
Practice Bombing Range and Bombing target. Restricted to practice and water-filled practice bombs.

16. RANGE OF POSSIBLE USES
Agriculture only. Access is restricted. Roadway easement passes through former owner's ranch barnyard and requires opening and closing three gates, one of which is kept locked to prevent animals escaping.

17. NAMES AND ADDRESSES OF INTERESTED FEDERAL AGENCIES AND OTHER INTERESTED PARTIES
**Mrs. Clella B. Kuebler, Kuebler Ranch, 511 Alta Rd., Chula Vista, California
 Otay Ranch, Telegraph Canyon Rd., Chula Vista, California**

18. REMARKS
The excess property has been decontaminated.
This property has been screened against the known defense needs of the Department of Defense, and requirements of Title 10, U. S. Code, Section 2662, have been met.

19. REPORT AUTHORIZED BY **Bureau of Yards & Docks, Dept of the Navy BUDOCKS INSTR 11011.34A**

NAME J. A. McHENRY, CAPT., CEC USN	SIGNATURE <i>J. A. McHenry</i> SEP 6 1960
TITLE District Public Works Officer	

CONTROL BY
 E 13647

STANDARD FORM 118b
DECEMBER 1953
PRESCRIBED BY GENERAL
SERVICES ADMINISTRATION
REGULATION 2-IV-201.00

4116-5-1350

**LAND Otay Mesa Bombing Target No. 32,
NAAS, Brown Field, Chula Vista, Cal.**

SCHEDULE B—SUPPLEMENT TO REPORT OF EXCESS REAL PROPERTY

1. HOLDING AGENCY NO. 11-22	2. PAGE 1 OF 1 PA OF THIS SCHEDULE
3. GOVERNMENT INTEREST <input type="checkbox"/> LEASE <input type="checkbox"/> PERMIT <input checked="" type="checkbox"/> FEE	<input type="checkbox"/> LICENSE <input type="checkbox"/> EASEMENT <input type="checkbox"/> INFORMAL AGREEMENT <i>N-Calif-710</i>

LINE NO. (a)	TRACT NO. (b)	NAME OF FORMER OWNER OR LESSOR AND ADDRESS (c)	TRACT ACQUIRED (Acres or square feet) (d)	EXCESS REAL PROPERTY			TYPE OF ACQUISITION (h)	RESTRICTIONS ON USE OR TRANSFER OF GOVERNMENT INTEREST (i)
				ACRES OR SQUARE FEET (e)	COST (f)	ANNUAL RENTAL (g)		
1		CLAUDE R. KUEBLER,	46.44	46.44	\$1,300.00		Condemnation	
2		CIELLA B. KUEBLER and					Civil No. 151-SD filed 16 Feb 1942 in U. S. Dist Court So. Dist of Calif., So. Div. Judgment & Decree in Condemnation awarded and filed Apr 21, 1944.	
3		OTAY AGRICULTURAL CORP						
4								
5								
6								
7		CLAUDE R. KUEBLER,	4.67*	4.67*	50.00		Condemnation.*	
8		CIELLA B. KUEBLER					Civil 251-SD filed 24 Nov 1942. (Perpetual easement for roadway to Otay Bombing Target over and across the - - -) 2.34 acres. The legal description of the land described in the civil action describes 4.67 acres instead of 2.34 acres.	
9								
10								
11								
12								
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14								
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17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
TOTAL			51.11	51.11	50.00			

10 August 1960

ATTORNEY'S REPORT ON TITLE

Otay Mesa Bombing Target #32, Naval Auxiliary Air Station,
Brown Field, Chula Vista, California

1. The following report is based on an examination of the files in the Real Estate Division, District Public Works Office, Eleventh Naval District, San Diego, California.

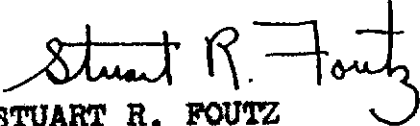
2. The property being disposed of consists of 46.44 acres of land together with a perpetual easement for access purposes containing 4.67 acres, which is depicted on a map entitled "Naval Operating Base, San Diego, California Air Station, Survey of Existing Road to Otay Bombing Target", Exhibit "A" of Civil No. 251-SD.

3. The records disclose:

- (1) Fee simple title was acquired to 46.44 acres of land by the United States in United States of America, Plaintiff, v. 46 Acres of Land, More or Less, situated in the County of San Diego, California, Claude R. Kuebler, et al, Defendants, Civil No. 151-SD, filed February 16, 1942, in the District Court of the United States for the Southern District of California, Southern Division. In the final judgment dated April 21, 1944, it was determined that the just compensation for the land was the sum of \$1,300.00, which amount was deposited into the Registry of the Court at the time of the filing of the declaration of taking. Valid title to the land was vested in the United States of America on February 16, 1942, as stated in the opinion of the Attorney General, Washington, D. C., dated April 6, 1942.
- (2) In condemnation proceedings entitled United States v. An Estate or Interest in 2.34 Acres of Land, More or Less, San Diego County, California, Civil No. 251-SD, filed November 24, 1942, there was vested in the United States a perpetual easement for an access road for use in connection with the establishment of Otay Mesa Bombing Field. In the judgment dated July 21, 1944, it was determined that the just compensation for the above easement was the sum of \$50.00, which amount had been deposited in the registry of the court, as stated in the opinion of the Attorney General, Washington, D. C., dated July 7, 1945.

(3) It should be noted that Exhibit "A" to Civil No. 251-SD describes a strip 20 feet in width, lying ten feet on either side of the center line of the acquired easement. In verifying the acreage in accordance with the description thereof, it was found that the easement area contains 4.67 acres instead of 2.34 acres, hence the additional 2.33 acres as shown in the Report of Excess Real Property attached hereto.

4. No action has been taken by the Department of the Navy which would affect the title to the subject property. The United States of America is not retaining any interest in said property.


STUART R. FOUTZ
Counsel
District Public Works Office
Eleventh Naval District

U.S. NAVAL AUXILIARY AIR STATION, BROWN FIELD
OTAY BOMBING TARGET
CHULA VISTA, CALIFORNIA

23 June 1960

DESCRIPTION

A parcel of land lying and being situate in the County of San Diego, State of California, being a portion of Section 24, Township 18 South, Range 1 West, San Bernardino Base and Meridian, described as follows:

BEGINNING at the intersection of the Southerly line of the Otay Rancho as shown on Map No. 862, Records of said San Diego County, with the Westerly line of said Section 24; thence North $71^{\circ} 02' 00''$ East, along said Southerly line of the Otay Rancho, a distance of 1922.23 feet to a 4-inch concrete filled iron pipe as shown on Record of Survey No. 920, on file in the Office of the County Recorder of said San Diego County; thence South $19^{\circ} 54' 20''$ East, a distance of 1680.00 feet; thence West a distance of 855.00 feet; thence North $58^{\circ} 06' 10''$ West, a distance of 1807.80 feet to the POINT OF BEGINNING, containing 46.44 acres, more or less.

U.S. NAVAL AUXILIARY AIR STATION, BROWN FIELD

OTAY BOMBING TARGET

CHULA VISTA, CALIFORNIA

23 June 1960

DESCRIPTION

EASEMENT FOR ACCESS ROAD

All of that land lying and being situate in the County of San Diego, State of California, being a portion of Sections 19 and 30 of Township 18 South, Range 1 East, and a portion of Section 24, Township 18 South, Range 1 West, all of San Bernardino Base and Meridian, more particularly described as follows:

A certain piece or parcel of land, being a strip twenty feet in width, lying ten feet on either side of the following described center line, said line being the center line of an existing road:

BEGINNING at a point in the San Diego County Road Survey No. 154, said survey being on file in the office of the County Surveyor of said County, 683.18 feet Southerly from the quarter corner common to Sections 30 and 19, Township 18 South, Range 1 East; thence following the center line of the existing County road South $87^{\circ} 59' 20''$ East, 943.60 feet; thence North $2^{\circ} 20' 40''$ East, 262.44 feet; thence North $73^{\circ} 20' 20''$ East, 68.71 feet to the end of pavement; thence continuing North $73^{\circ} 20' 20''$ East, along the center line of an existing road 70.60 feet; thence North $0^{\circ} 51' 10''$ West, 417.83 feet to a point in the North line of said Section 30; thence continuing North $0^{\circ} 51' 10''$ West, a distance of 10.00 feet to a point in the SE $\frac{1}{4}$ of Section 19; thence South $89^{\circ} 50'$ West, parallel with the South line of said SE $\frac{1}{4}$ of said Section 19, a distance of 1083.77 feet to a point in the Westerly line of said SE $\frac{1}{4}$; thence continuing South $89^{\circ} 50' 00''$ West, parallel with the Southerly line of the SW $\frac{1}{4}$ of said Section 19, a distance of 2701.80 feet to the Westerly line of said Section 19; thence South $89^{\circ} 48' 30''$ West, parallel with the Southerly line of Section 24, Township 18 South, Range 1 West, a distance of 157.28 feet to a point; thence in a general Northwesterly direction over and across said Section 24, the following courses and distances:

North $38^{\circ} 16' 10''$ West, 235.30 feet;
North $25^{\circ} 47' 50''$ West, 521.82 feet;
North $37^{\circ} 37' 10''$ West, 154.06 feet;

U.S. NAVAL AUXILIARY AIR STATION, BROWN FIELD, OTAY BOMBING
TARGET, CHULA VISTA, CALIFORNIA, EASEMENT FOR ACCESS ROAD
DESCRIPTION Continued

North 24° 17' 10" West, 507.62 feet;

North 33° 29' 30" West, 206.01 feet;

North 52° 32' 50" West, 851.19 feet;

North 66° 28' 50" West, 462.80 feet;

North 56° 24' 00" West, 284.93 feet;

North 35° 31' 00" West, 376.57 feet;

North 27° 30' 00" West, 334.32 feet, crossing the South

line of the NE $\frac{1}{4}$ of said Section 24 at 127.46 feet at a point
81.40 feet Easterly from the center of said Section measured
along said South line of the NE $\frac{1}{4}$, and crossing the West line
of the NE $\frac{1}{4}$ of Section 24, at 303.54 feet at a point 156.03
feet Northerly from the center of said Section measured along
the West line of said NE $\frac{1}{4}$; thence North 37° 12' 20" West,
550.36 feet to a point of intersection with the lands of the
United States Government known as the Otay Bombing Target
Tract (S.D. Civil No. 151), said point being
North 19° 54' 20" West, 28.50 feet from the Southeast corner
thereof, containing 4.67 acres, more or less.

CERTIFICATE OF RECORDATION

I, A. S. GRAY, County Recorder, of the Office of
the County Recorder of the County of San Diego,
State of California, did receive for recordation
the following instrument:

Easement deed dated June 23, 1961, between the United States of
America, Grantor, and Kuebler Ranch, Inc., Grantee.

I further certify that the said document was recorded
file/page 133500, series 2, book 1961
as ~~Document No.~~ _____, ~~in Book~~ _____, ~~at page~~ _____,
of the Official Records of the said County, on the 3rd day
of August, ~~1960~~ 1961.

A. S. GRAY, County Recorder
Recorder

By s/ E. J. Lisle
Deputy Recorder

(S E A L)

Return to:

General Services Administration
49 Fourth Street
San Francisco 3, California

Attention: Clarence W. Hull
Regional Counsel

CONFORMED
COPY

PUBLIC BUILDINGS SERVICE
417 South Hill Street, Room 1163
Los Angeles 13, California

June 26, 1961

Otay Mesa Bombing Target #32
San Diego County, California
N-Calif-710

United Enterprises, Inc.
6573 Serrano Place
San Diego 15, California

Kuebler Ranch, Inc.
373 E Street
Chula Vista, California

Attention: Mr. Lawrence C. Kuebler

Gentlemen:

Having received no objection by the appropriate Committees of Congress and in accordance with our letter of May 26, 1961, you are hereby authorized to assume possession of the fee-owned land of subject facility as of June 23, 1961.

The necessary legal documents will be prepared by our Regional Counsel in San Francisco and will be sent to you as soon as possible.

Sincerely yours

R. T. Hollingsworth

R. T. Hollingsworth
Realty Officer
Acquisition & Disposal
Field Office

15

CONTROL

Regional Counsel, GSA
San Francisco, California

June 29, 1961

E. T. Hollingsworth, Realty Officer,
A&D Field Office, P&S, Los Angeles

EW

Legal Documents
Otay Mesa Bombing Target #32
San Diego County, California
H-Calif-710

/s/R. T. Hollingsworth

Please prepare the necessary legal documents to dispose of the Government's interest in subject facility. The Government's interest is being disposed of in two units, which for purposes of identification are referred to as Unit 1 and Unit 2. Both units are being disposed of by authorized negotiation and were submitted to the appropriate Committees of Congress. Unit 1 comprises the Government's fee interest in 46.44 acres of land. Unit 2 comprises the Government's interest in 4.67 acres of access road easement. The following and the A&D file are submitted to furnish the required information:

1. Date of Sale: Unit 1 - May 26, 1961
Unit 2 - May 26, 1961

2. Name of Purchaser: Unit 1
United Enterprises, Inc.
(a Delaware corporation)
6573 Serrano Place
San Diego 15, California
and
Kuebler Ranch, Inc.
(a California corporation)
373 E Street
Chula Vista, California

Unit 2
Kuebler Ranch, Inc.
(a California corporation)
373 E Street
Chula Vista, California

3. Terms of Payment Unit 1 - \$4,600.00. This is total purchase price. Amount sent to Regional Comptroller in two checks - one for \$1,040.00 March 10, 1961 and one for \$3,560.00 March 13, 1961.

Unit 2 - \$450.00. This is total purchase price. Check sent Regional Comptroller March 10, 1961.

file

June 29, 1961

4. Insurable Value: None
5. Effective Date: Unit 1 - June 23, 1961
Unit 2 - June 23, 1961
6. Legal Description: Exhibit A (fee owned land)
Exhibit B (easement for access road)
7. Special Provisions: This is a negotiated disposal consistent with the provisions of Section 203(e) (6) of the Federal Property and Administrative Services Act of 1949, as amended, approved by the Administrator May 19, 1961. Authority delegated to Region 9 to execute such documents and take other such action as necessary to consummate this transaction after June 23, 1961, unless otherwise instructed. No other instructions received.
- Your memo dated May 2, 1961, states that in your opinion United Enterprises, Inc. and Kuebler Ranch, Inc. represent the former owners from whom the Government acquired the property.

Attachments:
Exhibits A & B
A&D Case file

1. ACCEPTANCE OF AGENCY		11-22	8-25-60	4.67E	-	\$1,350	MARKET VALUE	PAID	START DATE	END DATE	SCREENING PERIOD (No. of days)
2. START OF SCREENING			7-18-60	4.67E	-	\$1,350					30 days
2	3. APPRAISAL REPORT	EXPECTED	11-30-60	4.67E							REVISED EXPECTED DATE
		APPROVED	12-7-60	46.44F	-	\$1,350	\$3,450				
1	4. INSPECTION	SCHEDULED	9-28-60								BEST USE
		ACTUAL	9-23-60								REV. SCHED. DATE
	5. EXCESS PLAN FORMULATION	SCHEDULED									REVISED SCHEDULED DATE
	6. WITHDRAWAL REQUEST	RECEIVED									DATE APPROVED
	7. TRANSFER APPLICATION	RECEIVED									AGENCY
	8. ACCEPTANCE OF CUSTODY & ACCOUNTABILITY	APPROVED									AGENCY
	9. SURPLUS DE-TERMINATION	SCHEDULED									REV. SCHED. DATE
		ACTUAL	8-29-60								DISPOSAL BY <input checked="" type="checkbox"/> GSA <input type="checkbox"/> NA
	10. RECALL FROM SURPLUS										REVISED SCHEDULED DATE
3	11. DISPOSAL PLAN FORMULATION	SCHEDULED	12-21-60								REVISED SCHEDULED DATE
		ACTUAL	12/16-60								
	12. SALE PROPOSAL FORMULATION	SCHEDULED	N.A.								REVISED SCHEDULED DATE
		ACTUAL									

REGION NO. PROPERTY NAME AND LOCATION: 9-LA Otay Mesa Bombing Target # 32, San Diego Co., Calif. ORIG. N-Cont-710

4	13. ADVERTISING	SCHEDULED	N.A.								REV. SCHED. DATE
		ACTUAL									<input type="checkbox"/> AUCTION <input type="checkbox"/> S.F. <input checked="" type="checkbox"/> NEGOTIATED
6.5	14. BID OPENING	SCHEDULED	N.A.								HIGH BID
		ACTUAL									REV. SCHED. DATE
8	15. AWARD DECISION	SCHEDULED	3-3-61	4.67E							SELLING PRICE \$5,050.00
		ACTUAL	5/3/61	46.44F	-	\$1,350	\$3,450				REV. SCHED. DATE 5/3/61 **
7.5	16. SALE CLOSING	SCHEDULED	5-3-61								SELLING PRICE \$5,050 10-23/61
		ACTUAL	8-3/61	4.67E		\$ 50.00	\$ 350				REV. SCHED. DATE 5/3/61-8-23/61
9.7			9-5-61	46.44F		1,300.00	3,100				GSA FORM NO. 213794
	17. DISCO. BY OTHER PROV. OF LAZ	P.L.									SELLING PRICE
		CONG.									TO
	18. ASSIGNMENT TO DHEW										APPLICANT
	19. DELEGATION BY GSA										AGENCY
											DELE. NO.
											CONTROL
											BY
											DATE
	LEASSEE	DATE	NO. ACRES	NO. BLDGS.	LEASE NO.	FAIR ANNU. RENT	ANNUAL RENTAL	EXP. DATE			

FINAL COPY

REMARKS
 Advance Notice rec'd 7-1-60 and Notice of Availability mailed 7-18-60. Formal Report of Excess rec'd 8-18-60. Appraisal requested 8-31-60.
 5. Explanatory Statement sent to CO on negotiated sale, through RO 3/28/61. (Being held for Regional Counsel's opinion.)
 6. RO forwarded Explanatory Statement to CO 5/3/61 upon favorable opinion from Regional Counsel. **Requires approval of Administrator.
 7. Acceptance letter subject only to Congressional Clearance by 5/3/61. 9. Sale Document distributed 3/1/61.

ROUTING (Check and complete)	
<input type="checkbox"/>	1. NO DISPOSAL
<input type="checkbox"/>	2. NO COPY ROLLAR
<input checked="" type="checkbox"/>	3. NO DISPOSAL
<input type="checkbox"/>	4. NO APPRAISAL
<input type="checkbox"/>	5. NO SURETY MONEY
<input type="checkbox"/>	7. OTHER

Otay Mesa Bombing Target #32
San Diego County, California
N-Calif-710
(Kuebler Ranch, Inc.)

North 66° 28' 50" West, 462.80 feet;
North 56° 24' 00" West, 284.93 feet;
North 35° 31' 00" West, 378.57 feet;
North 27° 30' 00" West, 334.32 feet, crossing the South

line of the NE 1/4 of said Section 24 at 127.46 feet at a point 81.40 feet Easterly from the center of said Section measured along said South line of the NE 1/4, and crossing the West line of the NE 1/4 of Section 24, at 303.54 feet at a point 156.03 feet North-erly from the center of said Section measured along the West line of said NE 1/4; thence North 37° 12' 20" West, 550.36 feet to a point of intersection with the lands of the United States Government known as the Otay Bombing Target Tract (S.D. Civil No. 151), said point being North 19° 54' 20" West, 28.50 feet from the Southeast corner thereof, containing 4.67 acres, more or less.

TO HAVE AND TO HOLD, all and singular, the said easement, unto the said GRANTEE, its successors and assigns forever.

SALD PROPERTY transferred hereby was duly determined to be surplus and was assigned to the General Services Administration for disposal pursuant to the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, and applicable rules, orders and regulations.

IN WITNESS WHEREOF, the GRANTOR has caused these presents to be executed as of the day and year first above written.

UNITED STATES OF AMERICA
Acting by and through the
ADMINISTRATOR OF GENERAL SERVICES

By .s. Fred H. Johnston

Fred H. Johnston
Chief, Real Property Division
Utilization and Disposal Service
General Services Administration
Region 9, San Francisco, California

STATE OF CALIFORNIA)
) ss:
City and County of San Francisco)

On this 24th day of July, 1961, before me,
Sigrid E. Anderson, a Notary Public in and for the City and County of San Francisco, State of California, personally appeared FRED H. JOHNSTON, known to me to be the Chief, Real Property Division, Utilization and Disposal Service, General Services Administration, Region 9, San Francisco, California, and acknowledged that he executed the within instrument on behalf of the United States of America, acting by and through the Administrator of General Services.

WITNESS my hand and official Seal.

G-3

(S E A L)

/s/ Sigrid E. Anderson

Sigrid E. Anderson

E A S E M E N T

THIS INDENTURE, made the 23rd day of June, 1961, between the UNITED STATES OF AMERICA, acting by and through the Administrator of General Services, under and pursuant to the powers and authority contained in the provisions of the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, and regulations and orders promulgated thereunder, GRANTOR, and KUEBLER RANCH, INC., a corporation organized and existing under the laws of the State of California, GRANTEE,

WITNESSETH: That the said GRANTOR, for and in consideration of the sum of FOUR HUNDRED FIFTY DOLLARS (\$450.00) to it in hand paid by the said GRANTEE, the receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, unto the said GRANTEE, and to its successors and assigns, all of the GRANTOR'S right, title and interest in and to that certain easement for right of way, described as follows:

All of that land lying and being situate in the County of San Diego, State of California, being a portion of Sections 19 and 30 of Township 18 South, Range 1 East, and a portion of Section 24, Township 18 South, Range 1 West, all of San Bernardino Base and Meridian, more particularly described as follows:

A certain piece or parcel of land, being a strip twenty feet in width, lying ten feet on either side of the following described center line, said line being the center line of an existing road:

BEGINNING at a point in the San Diego County Road Survey No. 154, said survey being on file in the office of the County Surveyor of said County, 683.18 feet Southerly from the quarter corner common to Sections 30 and 19, Township 18 South, Range 1 East; thence following the center line of the existing County road South $87^{\circ} 59' 20''$ East, 943.60 feet; thence North $2^{\circ} 20' 40''$ East, 262.44 feet; thence North $73^{\circ} 20' 20''$ East, 68.71 feet to the end of pavement; thence continuing North $73^{\circ} 20' 20''$ East, along the center line of an existing road 70.60 feet; thence North $0^{\circ} 51' 10''$ West, 417.83 feet to a point in the North line of said Section 30; thence continuing North $0^{\circ} 51' 10''$ West, a distance of 10.00 feet to a point in the SE 1/4 of Section 19; thence South $89^{\circ} 50'$ West, parallel with the South line of said SE 1/4 of said Section 19, a distance of 1083.77 feet to a point in the Westerly line of said SE 1/4; thence continuing South $89^{\circ} 50' 00''$ West, parallel with the Southerly line of the SW 1/4 of said Section 19, a distance of 2701.80 feet to the Westerly line of said Section 19; thence South $89^{\circ} 48' 30''$ West, parallel with the Southerly line of Section 24, Township 18 South, Range 1 West, a distance of 157.28 feet to a point; thence in a general Northwesterly direction over and across said Section 24, the following courses and distances:

North $38^{\circ} 16' 10''$ West, 235.30 feet;
North $25^{\circ} 47' 50''$ West, 521.82 feet;
North $37^{\circ} 37' 10''$ West, 154.06 feet;
North $24^{\circ} 17' 10''$ West, 507.62 feet.

Otay Mesa Bombing Target #32
San Diego County, California
N-Calif-710
(United Enterprises, Inc., and Kuebler Ranch, Inc.)

TO HAVE AND TO HOLD, all and singular, the said premises,
with the improvements thereon, unto the said GRANTEEES, their successors
and assigns forever.

IN WITNESS WHEREOF, the GRANTOR has caused these presents to
be executed as of the day and year first above written.

UNITED STATES OF AMERICA
Acting by and through the
ADMINISTRATOR OF GENERAL SERVICES

By /s/ Fred H. Johnston
Fred H. Johnston
Chief, Real Property Division
Utilization and Disposal Service
General Services Administration
Region 9, San Francisco, California

STATE OF CALIFORNIA)
(ss:
City and County of San Francisco)

On this 21st day of July, 1961, before me,
Sigrid E. Anderson, a Notary Public in and for the City and County of
San Francisco, State of California, personally appeared FRED H. JOHNSTON,
known to me to be the Chief, Real Property Division, Utilization and
Disposal Service, General Services Administration, Region 9, San Francisco,
California, and acknowledged that he executed the within instrument on
behalf of the United States of America, acting by and through the Adminis-
trator of General Services.

WITNESS my hand and official Seal.

/s/ Sigrid E. Anderson

Sigrid E. Anderson
Notary Public
in and for the City and County of
San Francisco, State of California

My Commission Expires: Mar. 4, 1965

(S E A L)
Affixed

Otay Mesa Bombing Target #32
San Diego County, California
N-Calif-710
(United Enterprises, Inc., and Kuebler Ranch, Inc.)

QUITCLAIM DEED

THIS INDENTURE, made the 23rd day of June, 1961, between the UNITED STATES OF AMERICA, acting by and through the Administrator of General Services, under and pursuant to the powers and authority contained in the provisions of the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, and regulations and orders promulgated thereunder, GRANTOR, and UNITED ENTERPRISES, INC., a corporation organized and existing under the laws of the State of Delaware, and KUEBLER RANCH, INC., a corporation organized and existing under the laws of the State of California, GRANTEES,

WITNESSETH: That the said GRANTOR, for and in consideration of the sum of FOUR THOUSAND SIX HUNDRED DOLLARS (\$4,600.00) in lawful money of the United States of America, to be paid by GRANTEES to GRANTOR, receipt of which is hereby acknowledged, has remised, released and forever quitclaimed, and by these presents does remise, release and forever quitclaim, unto the said GRANTEES, and to their successors and assigns, the following described parcel:

A parcel of land lying and being situate in the County of San Diego, State of California, being a portion of Section 24, Township 18 South, Range 1 West, San Bernardino Base and Meridian, described as follows:

BEGINNING at the intersection of the Southerly line of the Otay Rancho as shown on Map No. 862, Records of said San Diego County, with the Westerly line of said Section 24; thence North 71° 02' 00" East, along said Southerly line of the Otay Rancho, a distance of 1922.23 feet to a 4-inch concrete filled iron pipe as shown on Record of Survey No. 920, on file in the Office of the County Recorder of said San Diego County; thence South 19° 54' 20" East, a distance of 1680.00 feet; thence West a distance of 855.00 feet; thence North 58° 06' 10" West, a distance of 1807.80 feet to the POINT OF BEGINNING, containing 46.44 acres, more or less.

SUBJECT TO rights of way, restrictions, reservations and easements existing or of record.

TOGETHER WITH all and singular the tenements, hereditaments and appurtenances thereunto belonging, or in anywise appertaining, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and also all the estate, right, title, interest, property possession, claim and demand whatsoever, in law as well as in equity, of the said GRANTOR of, in or to the foregoing described premises, and every part and parcel thereof, with the appurtenances.

SAID PROPERTY transferred hereby was duly determined to be surplus, and was assigned to the General Services Administration for disposal pursuant to the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, and applicable rules, orders and regulations.

AS01P002 PARCEL DETAIL SCREEN 1- 1998 02/03/97 14:01:04
PN: 646-040-11-00 TRA: 84026 RCC: OC TRANS: 11-17-92 CD: O TAX ST: 0
CTL DOC: R1992-187277 ED: 04-01-92 DD: 04-01-92 DT: 001 AD/SRC: 01-30-93 / ZC
FI: 1 HWCP SMITH,GREGORY T & GEORGIANA R

P O BOX 2786 RANCHO SANTA FE CA 92067-2786

----- P R O P E R T Y D A T A -----

SITUS:

LEGAL: SEC 24-18-1W*NW 1/4 OF*POR*

MAP: SE ACRG/DT: 37.01 / UNITS: 0 LUC: 862 TYP:

----- V A L U E S A N D E X E M P T I O N S ----- HCY:

150,000 LAND FIX EX EX CD

IMPS BPP EX EX CD

150,000 L+I OPP EX EX CD

150,000 TOT 150,000 NET EX TRANS DT:

----- C O D E S -----

APPL AREA: 03 VCC: VCD: 03-08-96 SSN1: S/RC: S DEF TX YR:

APPR ID : 596 VAC: 0 VAD: 04-01-92 SSN2: S/RV: 92

----- C U T D A T A -----

PPN: PTR: 084018

CUT#/YR/TYP: 004521 / 1962 / TRA#/YR: 005133 / 1983 REP#/YR: /

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11-17-18

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CTL DOC: R1983-095943 ED: 03-25-83 DD: 03-25-83 DT: 001 AD/SRC: 09-01-83 /
FI: 1 PANS STATE OF CALIFORNIA

PUBLIC AGENCY 00000

----- P R O P E R T Y D A T A -----

SITUS:

LEGAL: SEC 24-18-1W*PAR PER ROS 9721 IN

MAP: SE ACRG/DT: 405.97 / 07-19-91 UNITS: 0 LUC: 000 TYP:

----- V A L U E S A N D E X E M P T I O N S -----

HCY:

LAND	FIX	EX	EX CD
IMPS	BPP	EX	EX CD
L+I	OPP	EX	EX CD
TOT	NET	EX TRANS	DT:

----- C O D E S -----

APPL AREA: VCC: VCD: SSN1: S/RC: DEF TX YR:

APPR ID : VAC: VAD: SSN2: S/R Y:

----- C U T D A T A -----

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CTL DOC: R1992-187277 ED: 04-01-92 DD: 04-01-92 DT: 001 AD/SRC: 01-30-93 / ZC
FI: 1 HWCP SMITH,GREGORY T & GEORGIANA R

P O BOX 2786 RANCHO SANTA FE CA 92067-2786

----- P R O P E R T Y D A T A -----

SITUS:

LEGAL: SEC 24-18-1W*NW 1/4 OF*POR*

MAP: SE ACRG/DT: 37.01 / UNITS: 0 LUC: 862 TYP:

----- V A L U E S A N D E X E M P T I O N S -----

HCY:

150,000 LAND	FIX	EX	EX CD
IMPS	BPP	EX	EX CD
150,000 L+I	OPP	EX	EX CD
150,000 TOT	150,000 NET	EX TRANS	DT:

----- C O D E S -----

APPL AREA: 03 VCC: VCD: 03-08-96 SSN1: S/RC: S DEF TX YR:

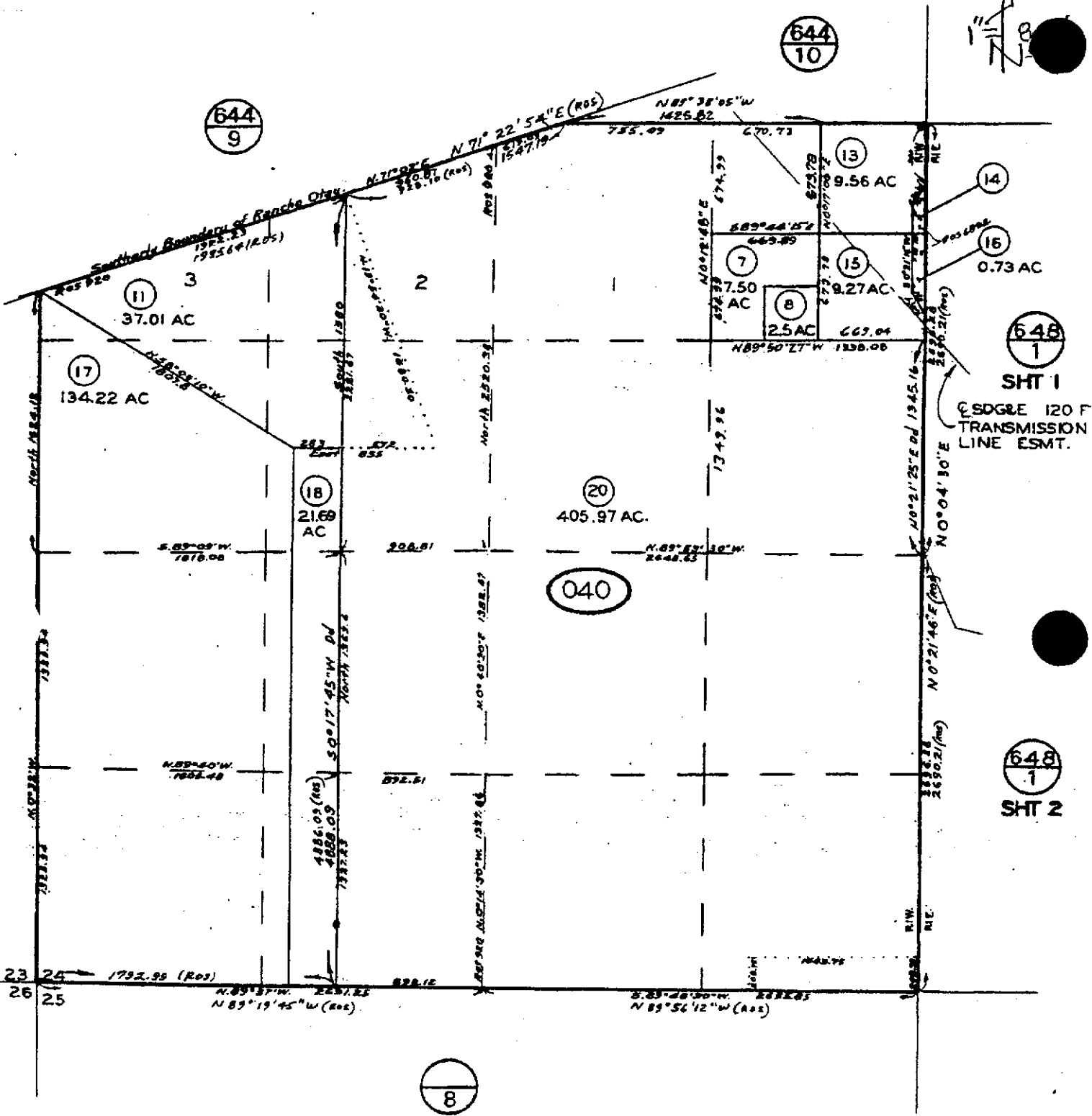
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----- C U T D A T A -----

PPN: PTR A: 084018

CUT#/YR/TYP: 004521 / 1962 / TRA#/YR: 005133 / 1983 REP#/YR: /

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SEC 24-T18S-RIW
ROS 920, 6892, 8722, 8723

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PL DOC: R1993-310558 ED: 05-17-93 DD: 05-17-93 DT: 046 AD/SRC: 10-28-93 / TS
L: 1 PTNS OTAY VISTA ASSOCIATES L P

BENEFICIAL OWNER SHOWN...SEE NEXT SCREEN FOR TYPE

C/O THE BALDWIN CO 16811 HALE AVE IRVINE CA 92714

----- P R O P E R T Y D A T A -----

SITUS:

LEGAL: LOT 6*298.04 AC M/L IN LOTS 5&

MAP: 000862 SD ACRG/DT: 298.04 / 02-21-97 UNITS: 0 LUC: 864 TYP:

----- V A L U E S A N D E X E M P T I O N S ----- HCY:

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IMPS	BPP	EX	EX CD
906,780 L+I	OPP	EX	EX CD
906,780 TOT	906,780 NET	EX TRANS DT:	

----- C O D E S -----

APPL AREA: 03 VCC: VCD: 03-28-97 SSN1: S/RC: S DEF TX YR:

APPR ID : 261 VAC: 0 VAD: SSN2: S/RV: 92

----- C U T D A T A -----

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CUT#/YR/TYP: 001597 / 1997 / CC TRA#/YR: 005005 / 1998 REP#/YR: /

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TL DOC: R1992-845359 ED: 12-31-92 DD: 12-31-92 DT: 035 AD/SRC: 01-30-93 /
I: 1 CPNS JEWELS OF CHARITY INC

3650 SILVERSIDE RD #1048 WILMINGTON DE 19810

----- P R O P E R T Y D A T A -----

SITUS:

LEGAL: LOT 15

MAP: 000862 SD ACRG/DT: 160.00 / 03-20-92 UNITS: 0 LUC: 863 TYP:

----- V A L U E S A N D E X E M P T I O N S ----- HCY:

1,231,374 LAND FIX EX EX CD

IMPS BPP EX EX CD

1,231,374 L+I OPP EX EX CD

1,231,374 TOT 1,231,374 NET EX TRANS DT:

----- C O D E S -----

APPL AREA: 03 VCC: VCD: 03-26-93 SSN1: S/RC: S DEF TX YR:

APPR ID : 599 VAC: 0 VAD: 12-31-92 SSN2: S/R Y: 92

----- C U T D A T A -----

PPN: 644-090-01-00 PTR: 063077

CUT#/YR/TYP: 001987 / 1992 / CA TRA#/YR: 005005 / 1998 REP#/YR: /

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CTL DOC: R1995-363110 ED: 08-18-95 DD: 08-18-95 DT: 001 AD/SRC: 09-20-95 / TS
FI: 3 TRNS UPHAM IDA I TESTAMENTARY TRUST

* * MULTIPLE OWNERS....ONLY ONE OWNER SHOWN * *

P O BOX 940 MINERAL WELLS TX 76068-0940

----- P R O P E R T Y D A T A -----

SITUS: OTAY VALLEY RD CA

LEGAL: SEC 13-18-1W*LOT 4 /SE 1/4 OF SE 1/4/*

MAP: SE ACRG/DT: 23.00 / UNITS: 0 LUC: 810 TYP:

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IMPS BPP EX EX CD

471,750 L+I OPP EX EX CD

471,750 TOT 471,750 NET EX TRANS DT:

----- C O D E S -----

APPL AREA: 03 VCC: VCD: 12-01-95 SSN1: S/RC: DEF TX YR:

APPR ID : 599 VAC: 0 VAD: 08-18-95 SSN2: S/R Y:

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ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX H

NEWSPAPERS/JOURNALS

(Not used for this Report)

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

Table of Contents

- I-1. Interview with Mr. Dave Cavender.
- I-2. Interview with Mr. Mike Burleigh.
- I-3. Interview with Mr. Bruce Tinknell.
- I-4. Interview with Mr. Gregory T. Smith.
- I-5. Interview with Sgt Conrad Grayson.
- I-6. Interview with Mr. Jeff Carle.

CONVERSATION RECORD	TIME 1400	DATE 22 January 1997
----------------------------	---------------------	--------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE
 INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH Mr. Dave Cavender	ORGANIZATION Richard J. Donavan Correctional Facility	TELEPHONE NO. (619) 661-7840
---	---	--


SUBJECT

Former Brown Field Bombing Range

SUMMARY Dave is the Correctional Facility Plant Manager, Richard J. Donavan Correctional Facility. He gave an excellent briefing about the facility and its history. Dave explained that the property adjacent to the correctional facility is restricted to unauthorized personal and that he has spent some time surveying the ground cover on the east side of the barbed wire fence as part of his duties with the correctional facility. He was aware of a trash dump on the former bombing range and escorted the Site Inspection Team (SI) to the debris pile depicted in Photograph J-6. Dave indicated that it was common local knowledge that a bombing range existed somewhere on the mesa. Sometime in late November or early December, 1996, the San Diego Gas and Power was doing some repair work near the gas line, when the backhoe struck something that gave off a loud report and emitted a cloud of white smoke. The workers noted two "mortar sized" objects and notified the correctional facility. The objects caused no apparent damage to either personnel or equipment. Cavender indicated that the items were approximately the same size as the practice bomb illustrated in photograph J-7

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION Nickolas Heleg-Greza	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6052
SIGNATURE 	TITLE UXO Spec	DATE 22 Jan 97

CONVERSATION RECORD	TIME 1400	DATE 22 January 1997
----------------------------	---------------------	--------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE
INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH Mr. Mike Burleigh	ORGANIZATION Brown Field	TELEPHONE NO. (619) 424-0455
---	------------------------------------	--

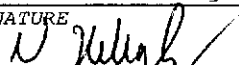
SUBJECT

Former Brown Field Bombing Range

SUMMARY Mike is the Airport Operations Assistant for Brown Field and has been employed there for 27 years. He knew that a bombing range used to exist and thought that the former bombing range property is currently owned by the state as a prison facility. Mike allowed us to look through his local history files. The airport record for the World War Two era is incomplete and contains very little history of Brown Field NAAS or no history of the bombing range. He had no knowledge of any ordnance incidents that could be associated with the former bombing range

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION Nickolas Heleg-Greza	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6052
SIGNATURE 	TITLE UXO Spec	DATE 22 Jan 97

CONVERSATION RECORD	TIME 1800	DATE 24 January 1997
----------------------------	---------------------	--------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE
 INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH Mr. Bruce Tinknell 8786 Betelgeufe Way San Diego, CA 92126	ORGANIZATION Private Citizen	TELEPHONE NO. (619) 578-9901
--	--	--

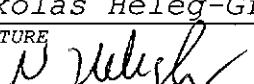
SUBJECT

Former Brown Field Bombing Range

SUMMARY Bruce is a retired military EOD specialist who spent a major portion of his military EOD career from 1975 to 1987 in the southern California area while assigned to the 70th Ordnance Detachment (EOD), San Diego. He remembers hearing about a former bombing target on the Otay Mesa, but does not recall any request for EOD support for this former bombing target range site. They did respond to one incident at Brown Field to pick up some caliber 50 machine-gun rounds. He indicated that aerial bombing targets were all over this region of Southern California.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION Nickolas Heleg-Greza	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6052
SIGNATURE 	TITLE UXO Spec	DATE 24 Jan 97

CONVERSATION RECORD	TIME 0730	DATE 8 August 1997
----------------------------	---------------------	------------------------------

TYPE

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		<input type="checkbox"/> INCOMING
		<input type="checkbox"/> OUTGOING

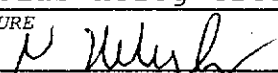
NAME OF PERSON CONTACT WITH Mr. Gregory T. Smith P.O. Box 2786 Rancho Santa Fe, CA 92067	ORGANIZATION Private Citizen Current Site Landowner	TELEPHONE NO. (619) 756-0107
--	---	--

SUBJECT
Former Brown Field Bombing Range

SUMMARY. Mr. Smith is the current landowner of approximately 80 percent of the former bombing range. He purchased 37.01 acres of the former site in March 1992. The State of California owns the remaining 9.43 percent. Mr. Smith's portion will become pasture for live stock grazing. He knew that the property was a former bombing target. Mr. Smith has only been to the property twice and did not notice anything that might resemble ordnance and is not alarmed at the prospect that practice inert ordnance debris maybe on the surface. Basically he has done very little with the property. He stated that it was mistakenly assumed that the Baldwin Company owned this property. They own the land directly west of his property while the land to the east and south is owned by the State of California and used as a prison facility.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION Nickolas Heleg-Greza	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6052
SIGNATURE 	TITLE UXO Spec	DATE 8 Aug 97

CONVERSATION RECORD	TIME 1030	DATE 24 August 1997
----------------------------	---------------------	-------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE
 INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH SGT Conrad Grayson San Diego County Sheriff San Diego, CA 92117	ORGANIZATION Chief, Criminal Investigation Unit- Bomb Squad	TELEPHONE NO. (619) 467-4660
---	---	--

SUBJECT

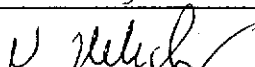
Former Brown Field Bombing Range

SUMMARY. (Note: the SI team did not contact SGT Grayson in January 1997, because his section was working around the clock investigating a series of bombings in and around San Diego)

SGT Grayson is a 20-year veteran of the San Diego Sheriff's "Bomb Squad". His unit does not respond to incidents on the Otay Mesa. The City of San Diego Fire Department Bomb Squad handles the territory adjacent to the correctional facility and the former bomb target area. However information is freely exchanged between the two departments and he does not recall any request for bomb squad assistance to the former bombing target.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION Nickolas Heleg-Greza	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6052
SIGNATURE 	TITLE UXO Spec	DATE 24 Aug 97

CONVERSATION RECORD	TIME 1030	DATE 26 August 1997
----------------------------	---------------------	-------------------------------

TYPE

VISIT

CONFERENCE

TELEPHONE
 INCOMING
 OUTGOING

NAME OF PERSON CONTACT WITH Jeff Carle San Diego County Fire Department San Diego, CA 92117	ORGANIZATION Chief, Metro Arson Strike Team	TELEPHONE NO. (619) 236-6815
---	--	--

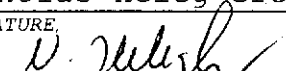
SUBJECT

Former Brown Field Bombing Range

SUMMARY. Mr. Jeff Carle is the Chief of the Metro Arson Strike Team for San Diego, CA. His area of operations includes Brown Field and the area of the former bombing range. Jeff has been with the Strike Team (ST) for the past 13 years. He keeps a close working relationship with the San Diego County Sheriff's Bomb Squad (BS). The ST and the BS share information and he does not recall any request for assistance to the former bombing range area. The area is really remote, especially since the correctional facility was constructed. He stated that surface activity is very low in that region. In general the only personnel on the former range site are either law-enforcement or illegal aliens. This is due to the proximity of Mexico, only three miles away, and the many remote areas for a person to hide in.

ACTION REQUIRED

ACTION TAKEN

NAME OF PERSON DOCUMENTING CONVERSATION Nickolas Heleg-Greza	ORGANIZATION CEMVR-ED-DO	TELEPHONE NUMBER (309) 794-6052
SIGNATURE 	TITLE UXO Spec	DATE 26 Aug 97

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX J

PRESENT SITE PHOTOGRAPHS

APPENDIX J

PRESENT SITE PHOTOGRAPHS

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- J-1.** Authorized entrance to site is past the Donavan Correctional Facility.
- J-2.** View down O'Neal Valley with site in the center and the correctional facility on the left.
- J-3.** Area A, Expended 100lb bomb bodies in trash pile.
- J-4.** Area A, 2.25 inch SCAR rocket motor tube in trash pile.
- J-5.** Area A, 3lb-practice bomb and 100lb practice bomb suspension ring.
- J-6.** Area A, Close-up of SCAR motor tube that was located near trash pile in J-3 above.
- J-7.** Area A, 100lb impacted practice bomb, one of many on the mesa.
- J-8.** Area A, Expended SCAR rocket motor tube, one of many on the mesa.
- J-9.** Area A, Lumber and several of the gypsum blocks that was a part of the former target.
- J-10.** Area A, Gypsum blocks in the target center.
- J-11.** Area B, View of the mesa looking southwest from the Otay Valley floor.
- J-12.** Area B, Expended 100lb practice bomb that is way off target, either dropped too early or too late.
- J-13.** Area B, Northeast end of mesa with the slippery clay easement road extending up the side of the mesa.
- J-14.** Area B, Nose section of 100lb-practice bomb on northwest side of mesa near the top.

APPENDIX J
PRESENT SITE PHOTOGRAPHS
Table of Contents (continued)

J-15. Area B, 500lb-practice bomb located on the north-northwest side of mesa.

J-16. Area B, View up ravine on the westside of mesa, note the practice bomb debris in foreground.

J-17. Area B, View across the ravine looking northeast toward top of mesa, note bomb debris in foreground.

J-18. Area B, View from top of adjacent mesa toward the barbed wire fence that separates Mr. Smith's and the State's property, note the rocket motor tube in the foreground.



J-1 Authorized entrance to site is past the Donovan Correctional Facility



J-2 View down O'Neal Valley with site in the center and the correctional facility on the left



J-3 Area A, Expanded 100lb bomb bodies in trash pile



J-4 Area A, 2.25 inch SCAR rocket motor tube in trash pile



J-5 Area A, 31lb-practice bomb and 100lb practice bomb suspension ring



J-6 Area A, Close-up of SCAR motor tube that was located near trash pile



J-7 Area A, 100lb impacted practice bomb, one of many on the mesa



J-8 Area A, Expended SCAR rocket motor tube, one of many on the mesa



J-9 Area A, Lumber and several of the gypsum blocks that was a part of the former target



J-10 Area A, Gypsum blocks in the target center



J-11 Area B, View of the mesa looking southwest from the Otay Valley floor



J-12 Area B, Expended 100lb practice bomb that is way off target, either dropped too early or too late



J-13 Area B, Northeast end of mesa with the slippery clay easement road extending up the side of the mesa



J-14 Area B, Nose section of 100lb-practice bomb on northwest side of mesa near the top



J-15 Area B, 500lb-practice bomb located on the north-northwest side of mesa



J-16 Area B, View up ravine on the westside of mesa, note the practice bomb debris in foreground



J-17 Area B, View across the ravine looking northeast toward top of mesa, note bomb debris in foreground



J-18 Area B, View from top of adjacent mesa toward the barbed wire fence that separates Mr. Smith's and the State's property, note the rocket motor tube in the foreground

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
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SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX K

HISTORICAL PHOTOGRAPHS

APPENDIX K

HISTORICAL PHOTOGRAPHS

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K-1. Aerial Photograph dated 5 Jan 1944 (B-26)

K-1a. Enlarged view of target area

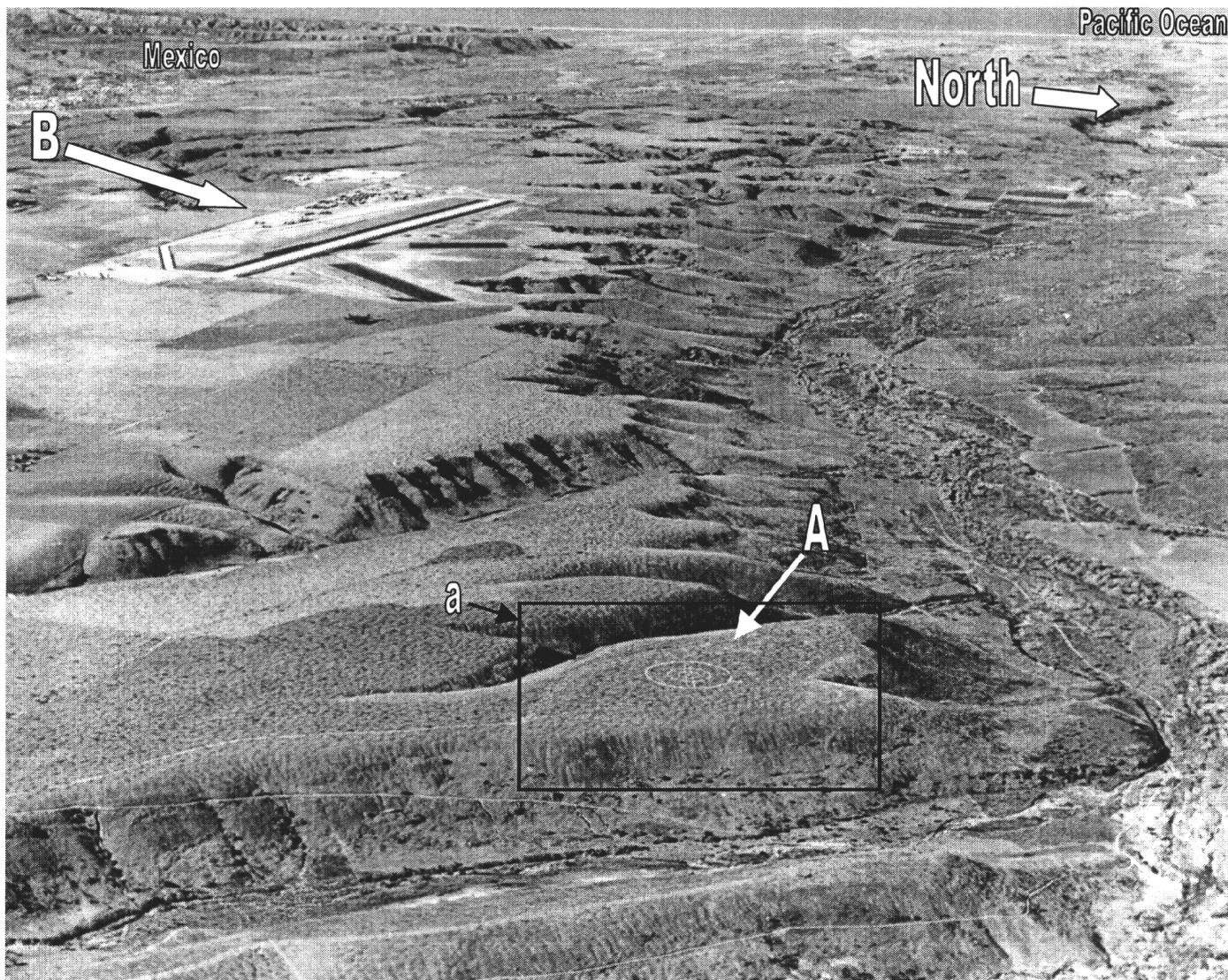
K-2. 1960 aerial photograph of Otay Mesa (B-27)

K-2a. Enlarged view of K-2's box a

K-3. 1969 aerial photograph of the entire mesa (B-28)

K-3a. Enlarged view of former target area

U.S. Navy aerial photograph dated 5 Jan 1944



A. Brown Field Bombing Range (Otay Mesa Bomb Target #32)

B. Brown Field NAAS

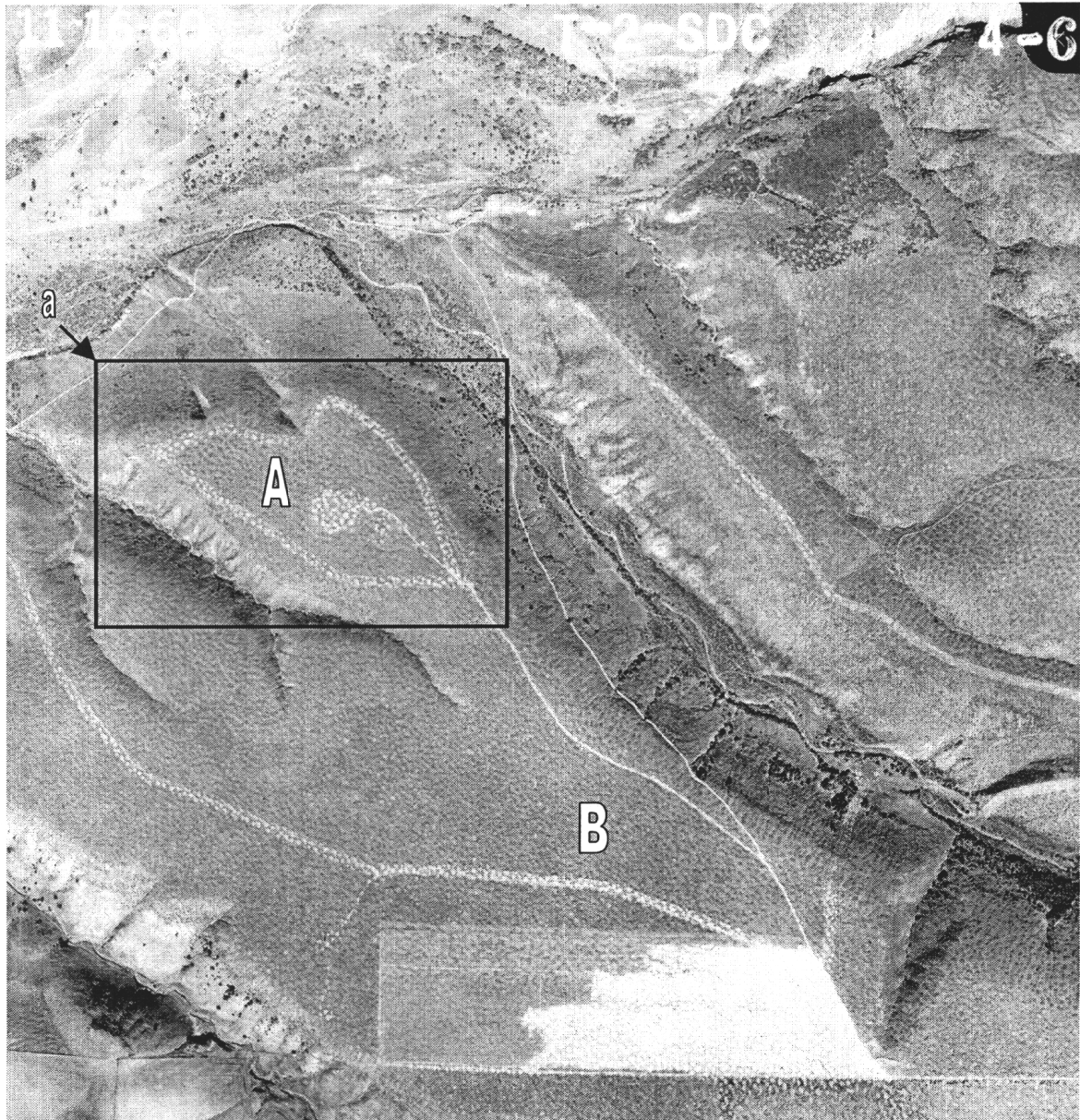
a. This area is enlarged in document K-1a

Enlarged view of target area, circa 1944



Close-up view of the bomb target on Otay Mesa. The arrow on the outer circle points north.

K-1a

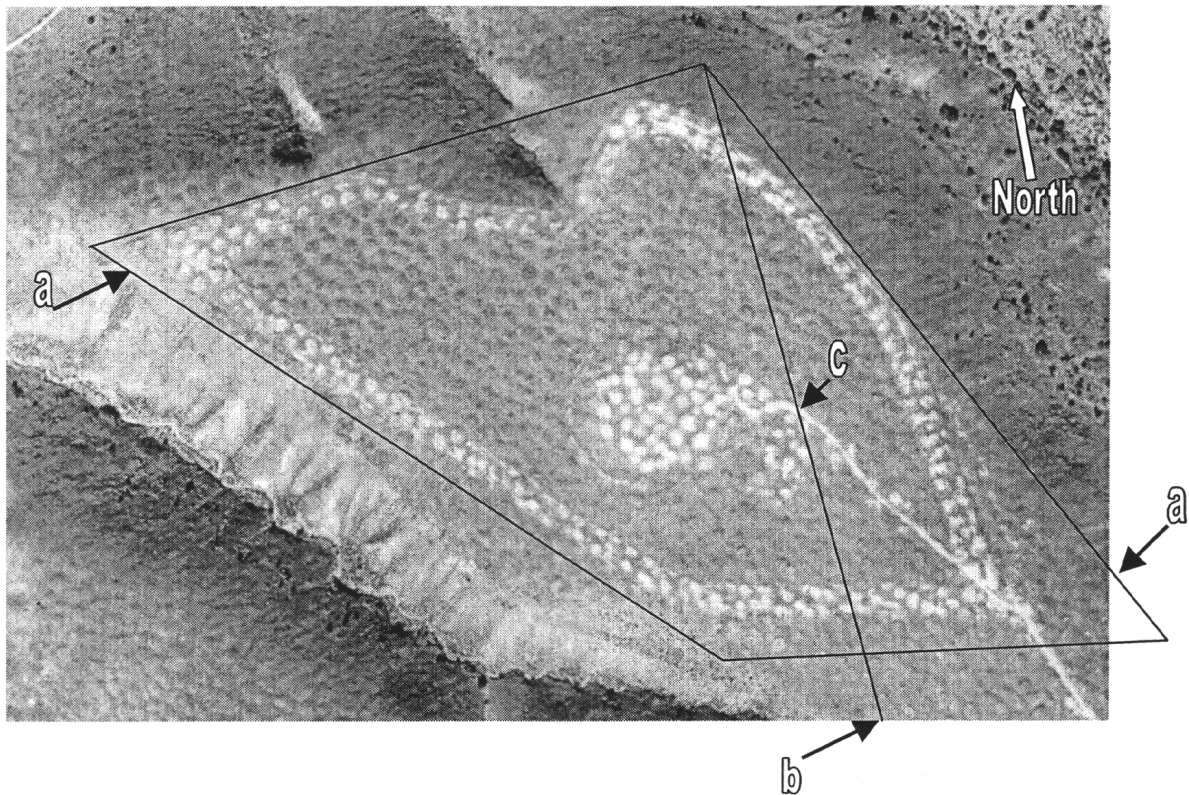


1. An excellent aerial photograph of the Otay Mesa area, that depicts the former target (A) and its surroundings before the Donovan Correctional Facility was constructed. The aerial can be deceiving upon first glance. The valleys and ravines appear as hills instead of depressions.

2. The Donovan Correctional Facility is situated at the base of the former target area (B).

a. This area is enlarged in document K-2a.

Enlarged view of box a in document K-2.



1. The former range boundary, circa 1944, is approximated by box a. The location of the current barbed wire fence is approximated by line b.
2. A barbed wire cattle gate is located at location c.
3. Mr. Smith owns the property to the west of the barbed wire fence and the State of California owns the east portion of the former bombing range.

K-2a

1969 aerial photograph of the entire mesa



Location: A is the former bombing range.
B is the Donovan Correctional Facility.
C is Brown Field Municipal Airport.
a is three miles north of the international
border between the United States and Mexico.
b represents the enlarged area view in document
K-3a.

Enlarged view of former target area in Document K-3



This 1969 close-up view shows the proximity of the new correctional facility in relation to the former bombing range. The only authorized access to the site is through the correctional facility's main entrance. The Gas/Power line road is accessible with a four-wheel drive vehicle, however the facility guards and the INS patrol the area and any unauthorized person will be detained.

ORDNANCE AND EXPLOSIVES
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APPENDIX L

REFERENCE MAPS/DRAWINGS

APPENDIX L

REFERENCE MAPS/DRAWINGS

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L-1. B-30 U.S. Naval Drawing "Multipurpose Target Range, Target and Equipment Details", dated 4/2/65 (B-30).

L-2. B-31 U.S. Naval Drawing "Strafing Range", dated 4/2/65 (B-31).

L-3. U.S. Naval Drawing "Multipurpose Target Range, Facility Details", dated 2/1/61 (B-32).

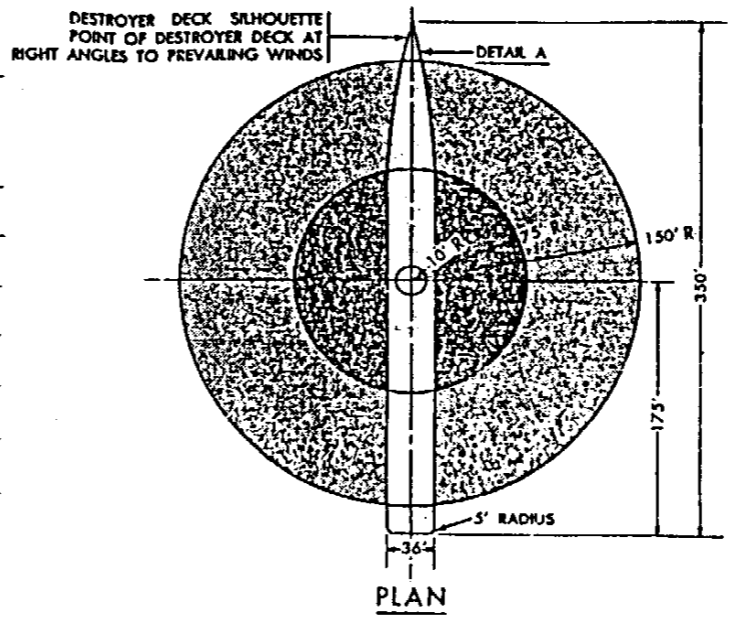
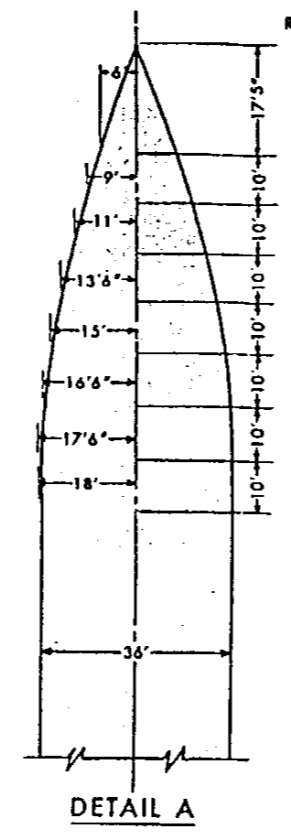
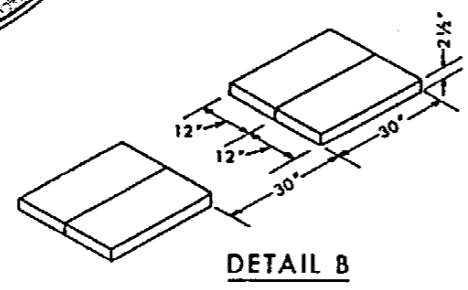
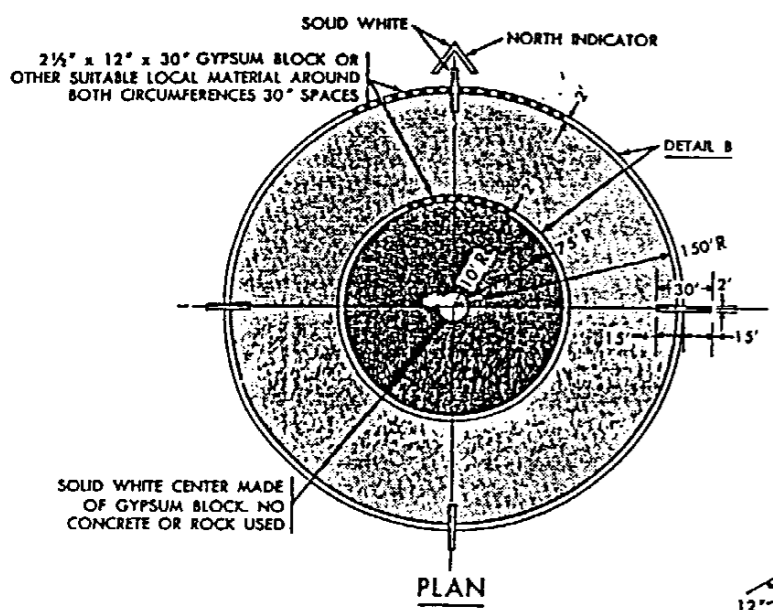
L-4. Reconstructed bomb target layout.

L-5. Excerpt map from reference B-23.

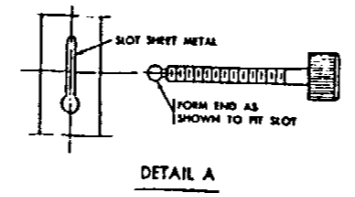
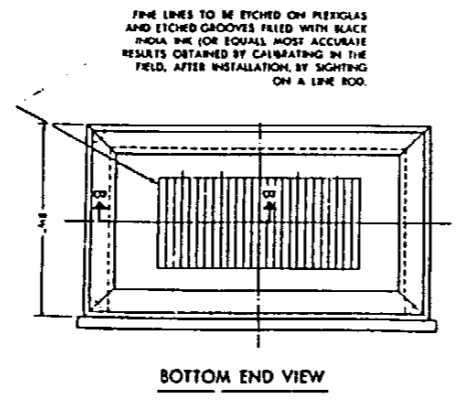
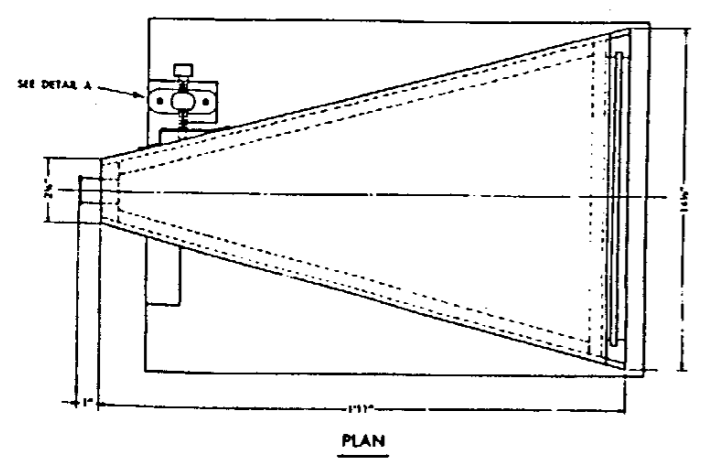
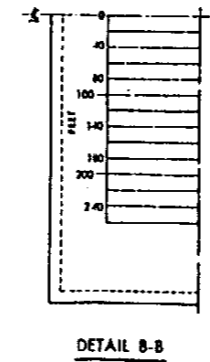
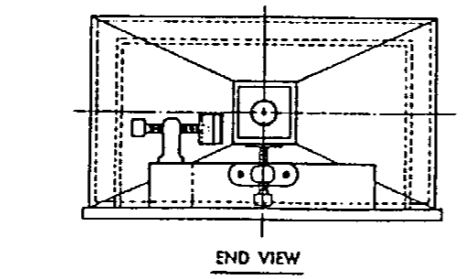
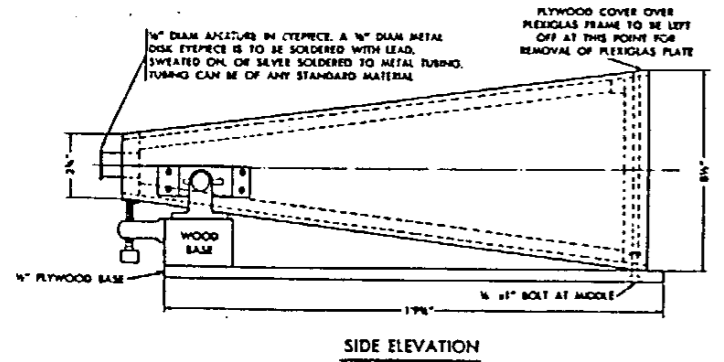
L-6. Excerpt map from reference B-33.

GENERAL DESIGN REQUIREMENTS

1. CRITERIA REQUIREMENTS
NAVWEPS 00-100-503 (Conf) TECHNICAL PLANNING MANUAL, Part C, Section 2, Code 179 23.
2. PROGRAMMING REQUIREMENTS
NAVWEPS 00-100-504 PROGRAMMING GUIDE Part C, Section 3, Code 179 23.
3. SPECIAL UTILITIES
See dwg. SE 179 23-1.
4. COLLATERAL EQUIPMENT
See item 1 above for technical equipment.
See dwg. SE 179 23-1.
5. GENERAL NOTES
a. See dwg. SE 179 23-1 for land area and air-space requirements and SE 179 23-3 for rocket bombing target facilities.
b. See dwg. SE 179 24-1 for live ordnance impact area facilities.



DIVE BOMBING TARGET DETAILS



SCORING DEVICE FOR BOMBING TARGET

SYMBOL	REVISIONS - DESCRIPTION	DATE	APPROVAL
A	Dwg. SE 179 23-3-2 hereby superseded	2/12/65	REB

DEPARTMENT OF THE NAVY
Bureau of Naval Weapons Washington 25, D. C.
U. S. NAVAL WEAPONS SHORE FACILITIES

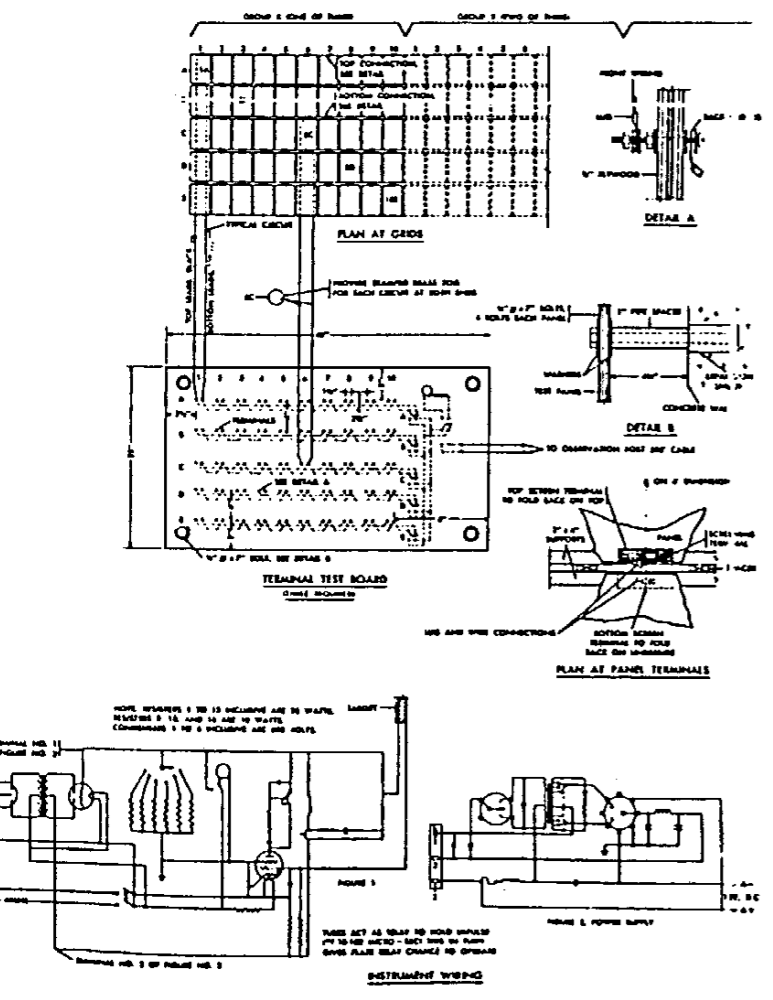
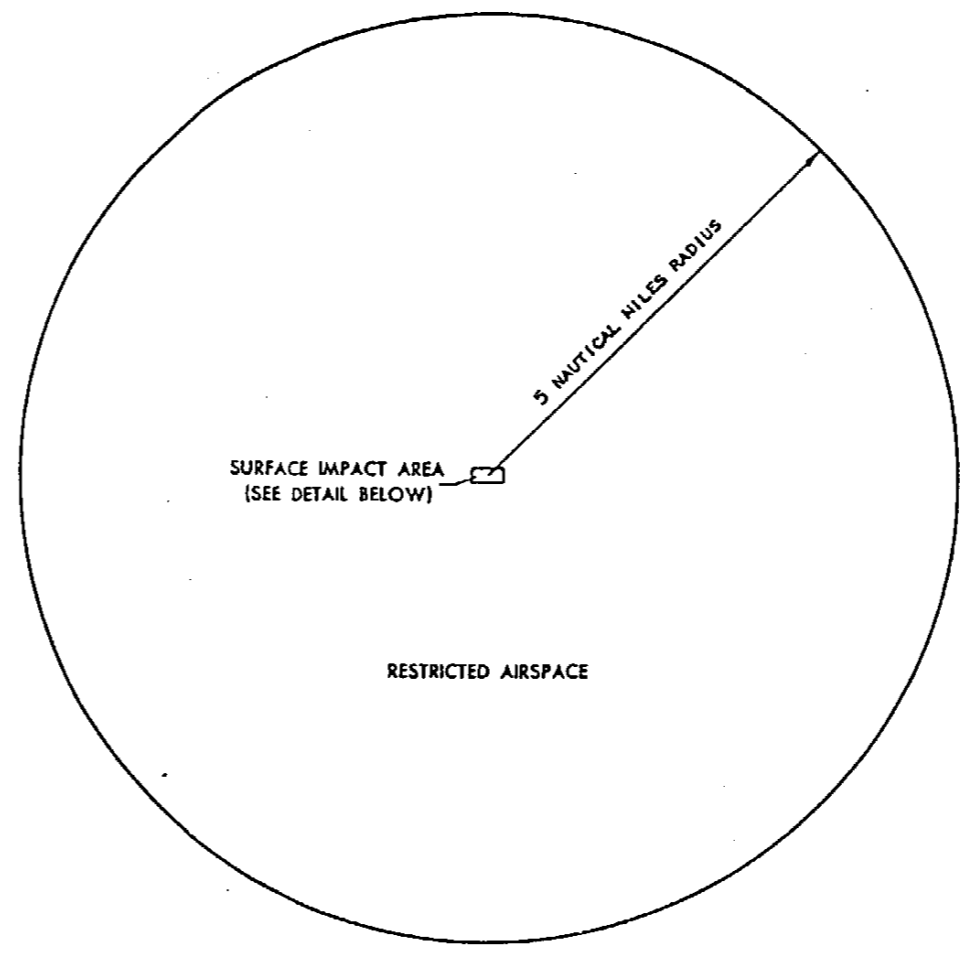
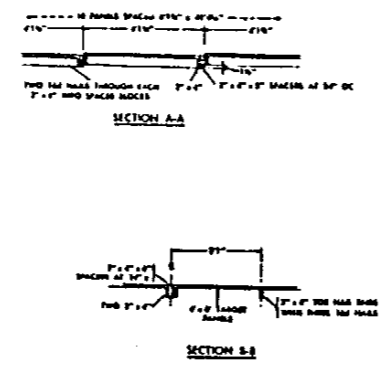
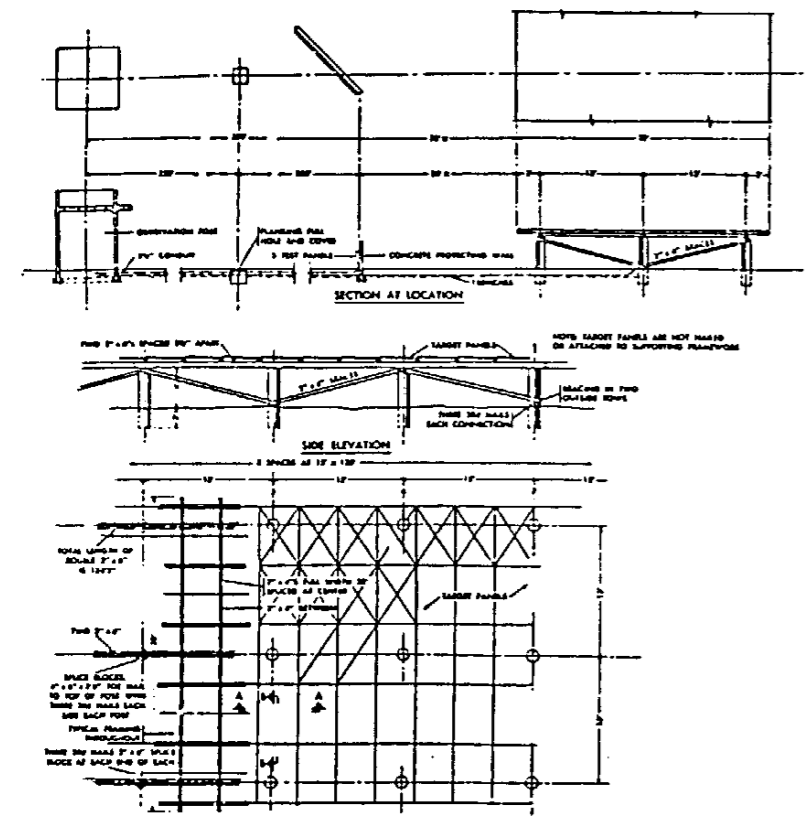
MULTIPURPOSE TARGET RANGE
TARGET AND EQUIPMENT DETAILS

REVIEWED BY: SAFETY DIVISION
SUBMITTED BY: *H.M. Ragan* 4/1/65
CODE DATE
CHIEF STANDARDS ENGINEER DATE

APPROVED BY: BUWEPS
AGENCY: *Butcher* 2/1/65
SCALE: *M. Williams* 4/2/65
DOCKET 61-45
BUWEPS DWG NO. 05170 23-2A

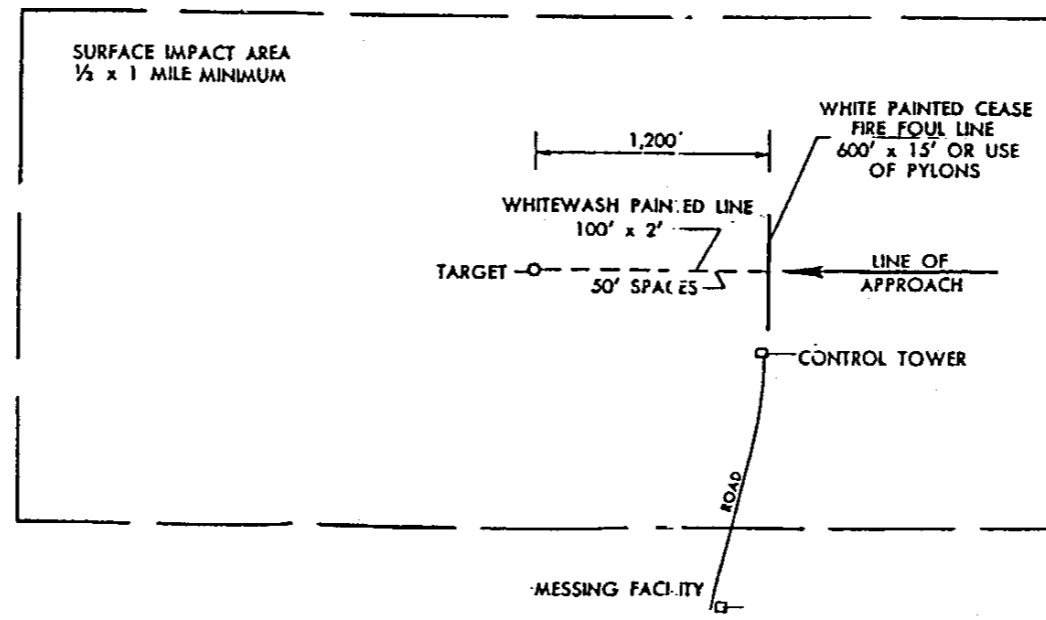
GENERAL DESIGN REQUIREMENTS

1. **CRITERIA REQUIREMENTS**
NAVWEPS 00-100-503 (Conf), TECHNICAL PLANNING MANUAL, Part C, Section 2, Code 179 12.
2. **PROGRAMMING REQUIREMENTS**
NAVWEPS 00-100-504, PROGRAMMING GUIDE, Part C, Section 3, Code 179 12.
3. **SPECIAL UTILITIES**
Telephone service for control tower. Other utilities as required.
4. **COLLATERAL EQUIPMENT**
See item 1 above for technical equipment for control tower. Remote range facilities may require berthing and messing for operating personnel (3 men).
5. **BUILDING AREA**
6. **LAND REQUIREMENTS**
Range requirements; approximately 320 acres for impact area or 104 sq. mi. for the airspace restricted area.
7. **GENERAL NOTES**
a. Refer NAVWEPS 00-100-502, Air Contour Maps, Vol. I for coordination requirements of airspace and restricted areas, AND AS REVISED BY OPNAV INST. 3770.2C OF 27 OCT. 1964.



AUTOMATIC RECORDING TARGET

STRAFING RANGE



DETAIL OF SURFACE IMPACT AREA

A Dws. SE 179 10.2-1 HEREBY SUPERSEDED 2/26/65			
SYMBOL	REVISIONS-DESCRIPTION	DATE	APPROVAL

DEPARTMENT OF THE NAVY
Bureau of Naval Weapons, Washington 25, D. C.
U. S. NAVAL WEAPONS SHORE FACILITIES

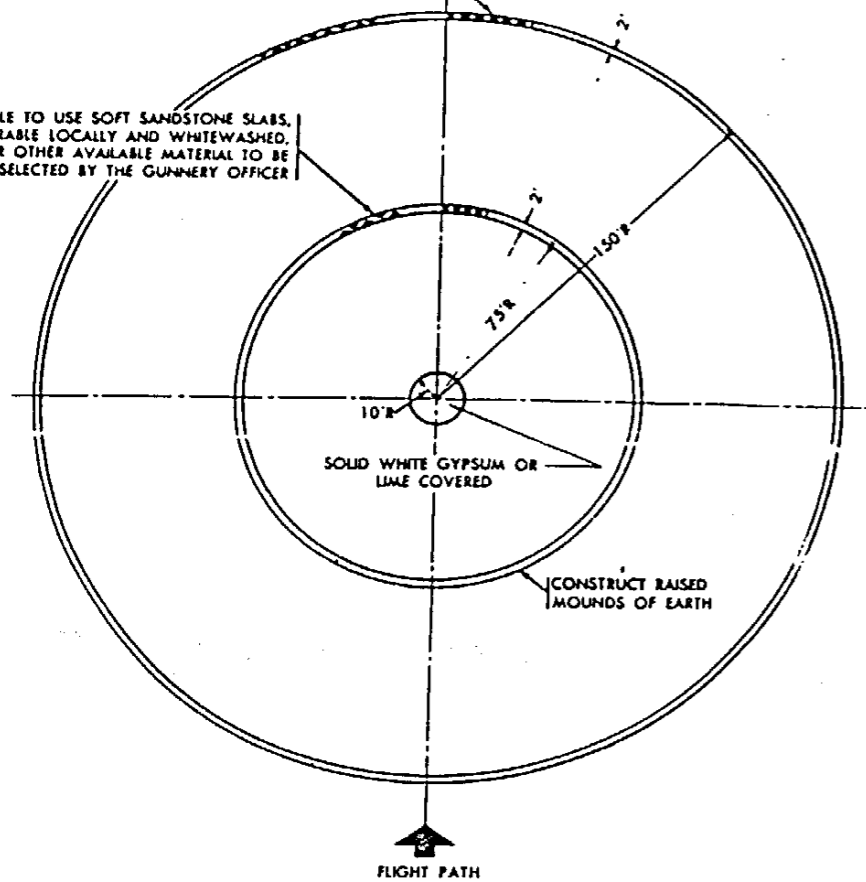
STRAFING RANGE

REVIEWED BY: SAFETY DIVISION
H. M. Roulson 4/65
SUBMITTED BY: *R. J. ... 2/26/65*
NAME: *R. J. ...* CODE: DATE: *2/26/65*
APPROVED BY: BUWEPS
W. J. ... 4/65
SCALE: DOC. ET 61-15
BUWEPS DWS NO. 00 170 12 1 A

SATISFACTORY TO: CMO-OP-320
AGENCY: *CD Phillips* *2/26/65*

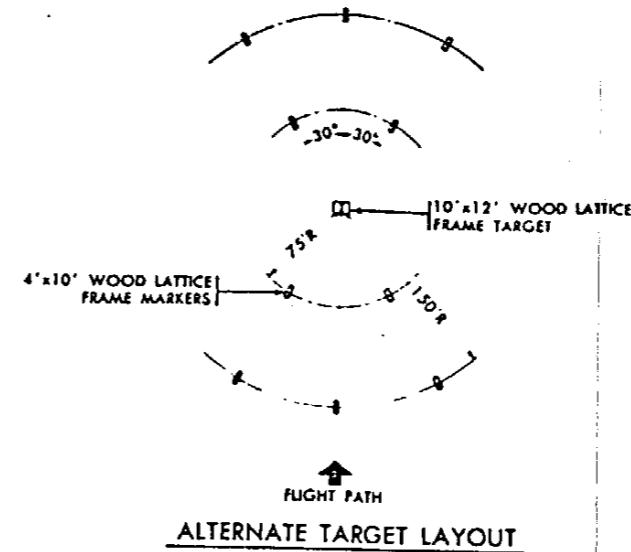
CONSTRUCT BANDS USING GYPSUM BLOCKS 2 1/2"x12"x30"
WITH 30" SPACES BETWEEN BLOCKS OR DRY GYPSUM ON
RAISED EARTH BANDS APPROXIMATELY 12" HIGH

PERMISSIBLE TO USE SOFT SANDSTONE SLABS,
IF PROCURABLE LOCALLY AND WHITEWASHED,
OR OTHER AVAILABLE MATERIAL TO BE
SELECTED BY THE GUNNERY OFFICER



TARGET DETAIL

DIRECTION OF PULLOUTS TO BE DESIGNATED
BY GUNNERY TRAINING OFFICER-IN-CHARGE



ROCKET BOMBING TARGET

DISTANCE VARIABLE ACCORDING TO
TERRAIN AND TYPE OF ORDNANCE
USED. (MIN 800' FOR MINATURE
SCARS; MAX 1,500' FOR HVARS AND
HIGH EXPLOSIVES)

1. CRITERIA REQUIREMENTS
NAVWEPS 00-100-503 (Conf). TECHNICAL PLANNING
MANUAL, Part C, Section 2, Code 179 20.3.
2. PROGRAMMING REQUIREMENTS
NAVWEPS 00-100-504, PROGRAMMING GUIDE,
Part C, Section 3, Code 179 20.3.
3. SPECIAL UTILITIES
See dwg. SE 179 20.3-1.
4. COLLATERAL EQUIPMENT
See item 1, above for technical equipment.
5. GENERAL NOTES
 - a. See dwg. SE 179 20.3-1 for land and airspace requirements, and SE 179 20.3-2 for target facilities.
 - b. See dwg. SE 179 20.4-1 for live ordnance impact area facilities.
 - c. Refer to Y & D drawing 873521 for details.

REVISION	REVISIONS - DESCRIPTION	DATE	APPROVAL
B	CHANG TO B WEPS & ADD B TO DWG. 117.	2/1/58	[Signature]
A	Details Deleted - Title Change	11/13/57	[Signature]

DEPARTMENT OF THE NAVY
Bureau of Naval Weapons Washington 25, D. C.
U. S. NAVAL WEAPONS SHORE FACILITIES

MULTIPURPOSE TARGET RANGE
FACILITY DETAILS

APPROVED BY: [Signature] DATE: 2/1/58
SUBMITTED BY: [Signature] CONTRACT ADMINISTRATOR DATE: 9/2/58

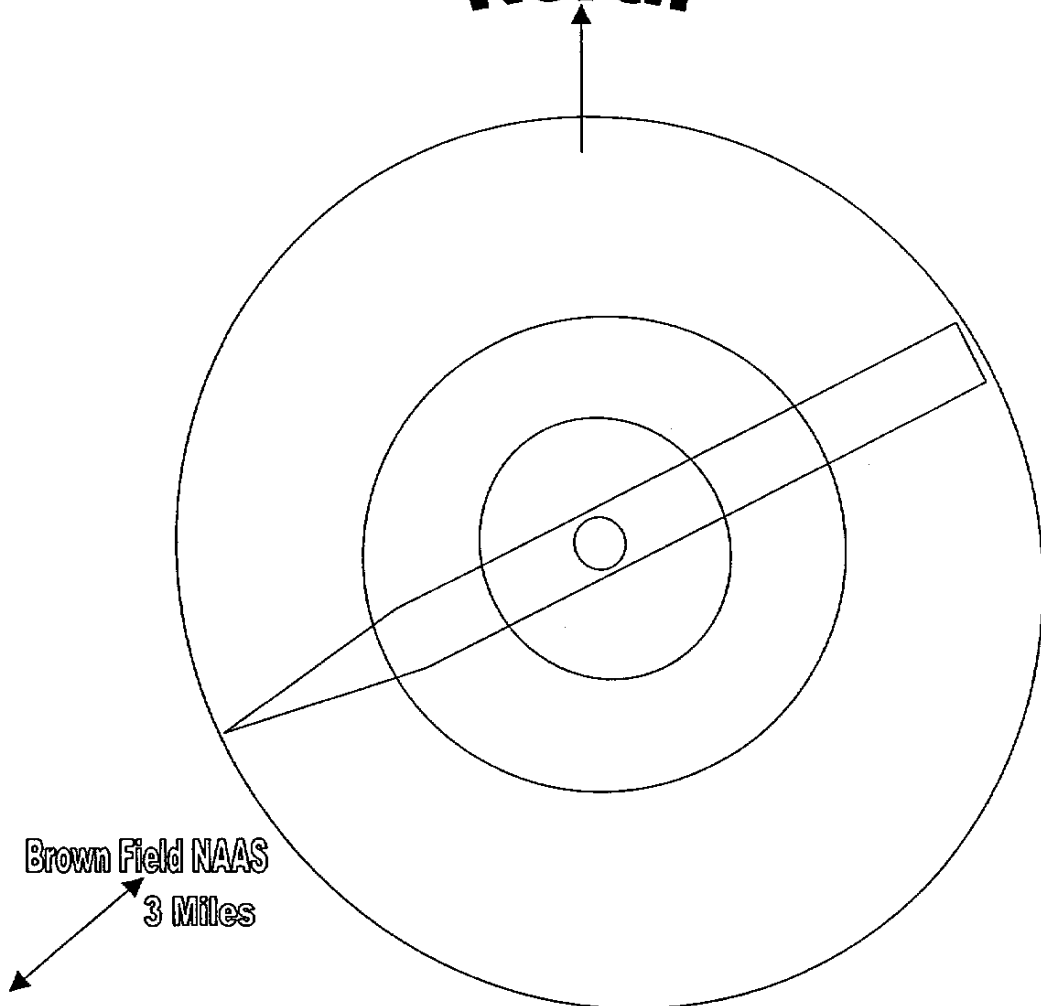
SATISFACTORY TO: [Signature] BUDGET AGENCY: AstCh 2/1/58
FOR OFFICE OF BUREAU: [Signature] DATE: 2/1/58

SCALE: NONE DOCKET NO. SE
BUWEPS DWG. NO. SE 179 20.3-3 SHEET 3 OF 3

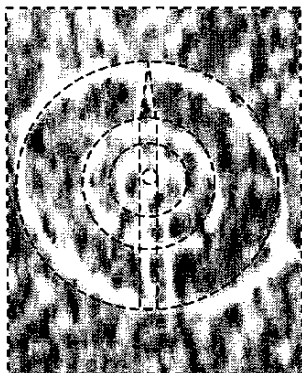
Reconstructed bomb target layout, Ref. Document K-1.

← Approximately 200 feet across →

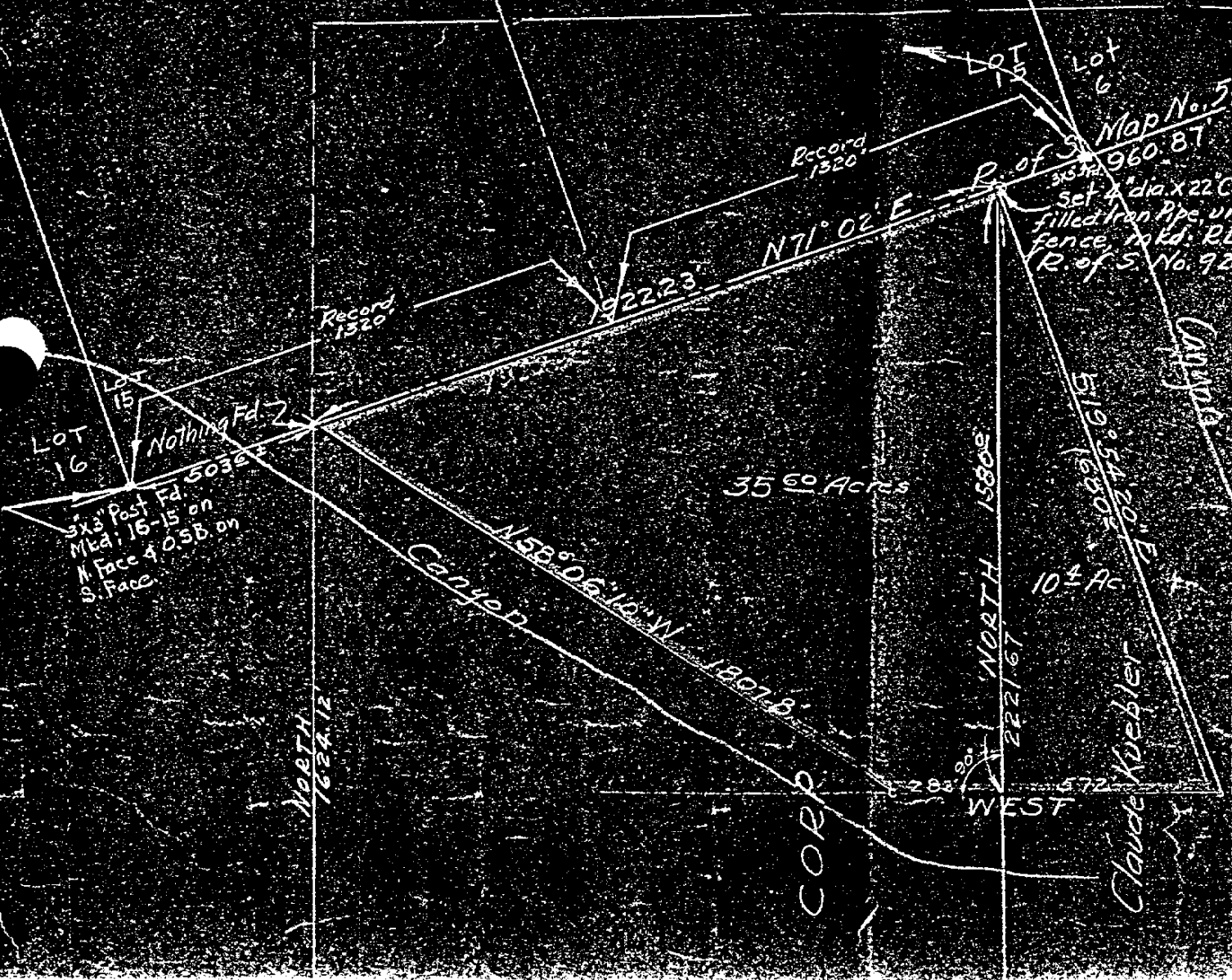
North



(Note) The bomb target was reconstructed using the aerial photograph in K-1 (cropped below) and the description of the Otay BT in doc E-6.



RANCHO MAP No. 862 OTAY



LOT 16

LOT 15

LOT 6

Nothing Fd 2

5x3 Post Fd.
Mtd: 16-15 on
N Face & 0.5B on
S. Face.

35.60 Acres

CANYON

CORP

Claude Koeppler

NORTH
1624.12

NORTH 1580E

WEST

Record 1320

Record 1320

N71°02'E

922.23

Map No. 5

960.87

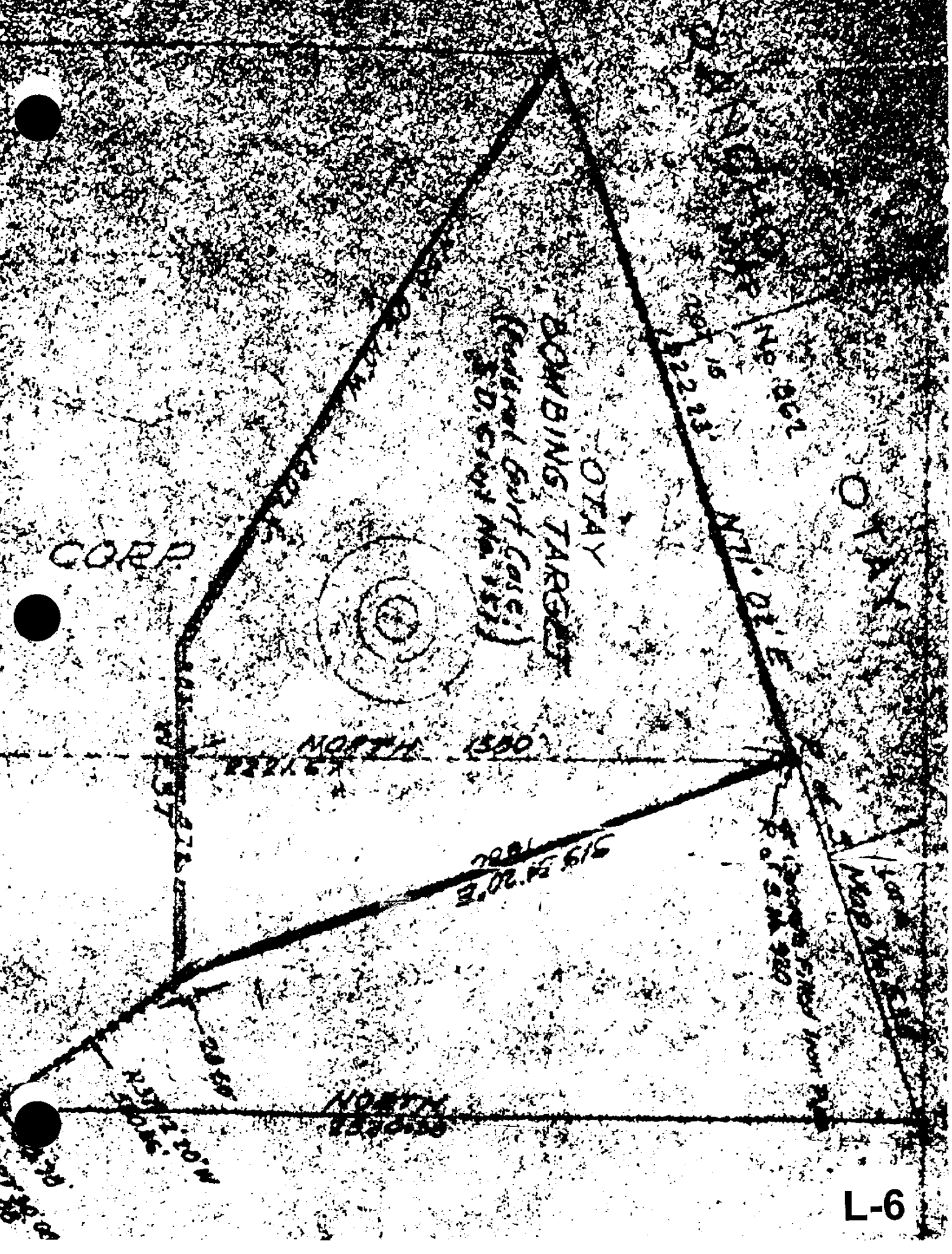
Set 4 dia x 22' filled iron pipe with fence, 1960.87' R. of S. No. 92

519.65
54.20'E
2095.615

10± Ac

288°

572



CORP

O
BOMBING TARGET
(Federal Buff Cases)
(D.C. of No. 151)

No. 862
1915
1922, 23

N 11° 02' E

O

NORTH 1500

519.24 20'E
1804

1000
1000
1000

NORTH 1500

1000
1000
1000

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX M

ARCHIVE SEARCH REPORT CORRESPONDENCE

(Not used in this report)

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

APPENDIX N

REPORT DISTRIBUTION LIST

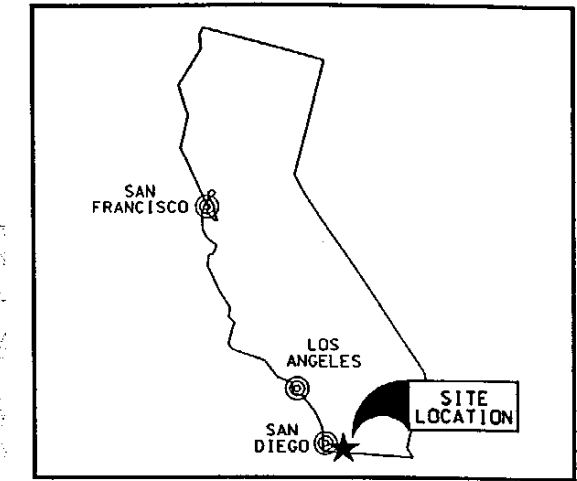
APPENDIX N

REPORT DISTRIBUTION LIST

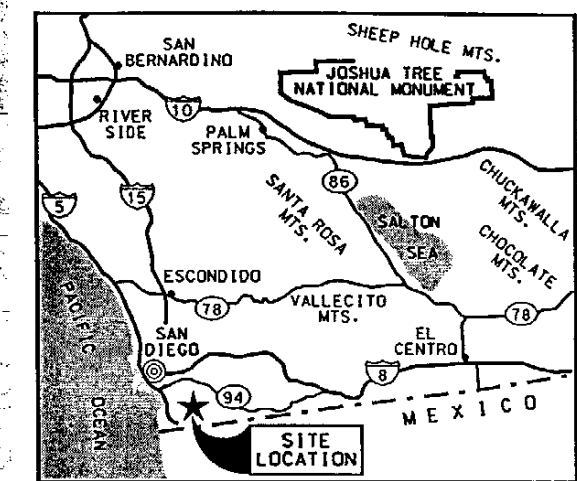
	I	II	III
I - Final Report			
II - Findings Report			
III - Routed Final Report			
Commander, U.S. Army Corps of Engineers Engineering & Support Center, Huntsville ATTN: CEHNC-ED-SY-A (Mardis) P.O. Box 1600 Huntsville, Alabama 35807-4301	2	-	-
Commander, U.S. Army Engineer Division Mississippi Valley ATTN: CEMVD-PM-E (Ethridge) PO Box 80 Vicksburg, MS 39181-0080	-	-	-
Commander, U.S. Army Defense Ammunition Center ATTN: SIOAC-ES Savanna, Illinois 61074-9639	3	-	-
Commander, U.S. Army Health Clinic ATTN: MCXP-PMA (Platt) Rock Island Arsenal Rock Island, Illinois 61201	-	-	-
Commander, U.S. Army Engineer District, Los Angeles District ATTN: CESPL-ED-MI (Boghossian) 911 Wilshire Blvd. Los Angeles, Ca 90017	1	-	-
Commander, U.S. Army Engineer District, Los Angeles District ATTN: CESPL-PM-M (Knutson) 911 Wilshire Blvd. Los Angeles, Ca 90017	1	-	-
Commander, U.S. Army Engineer District, Los Angeles District ATTN: CESPL-CO-SS 10845 Rancho Bernardo Road, 2nd Floor Suite 200, rm 204 Rancho Bernardo, CA 92127	1	-	-

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
FORMER BROWN FIELD BOMB RANGE
SAN DIEGO, CALIFORNIA
PROJECT NUMBER J09CA113001

REPORT PLATES

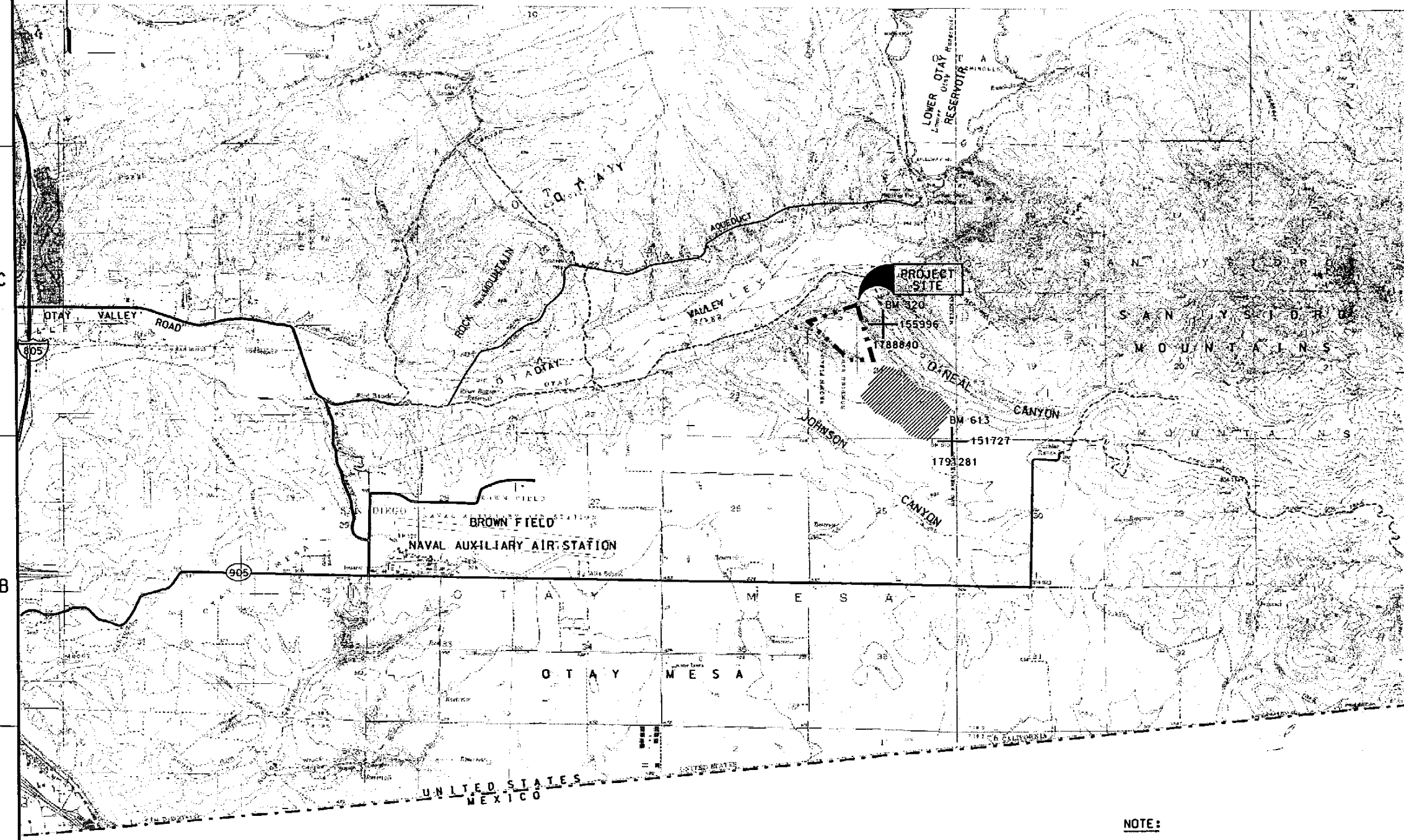


STATE MAP OF CALIFORNIA

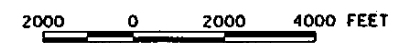


VICINITY MAP

- LEGEND:**
- FORMER BROWN FIELD BOMBING RANGE SITE BOUNDARY
 - == MAJOR ROADS
 - UNIMPROVED ROADS
 - - - - INTERNATIONAL BOUNDARY
 - + STATE PLANE COORDINATES
 - ▨ STATE PRISON FACILITY



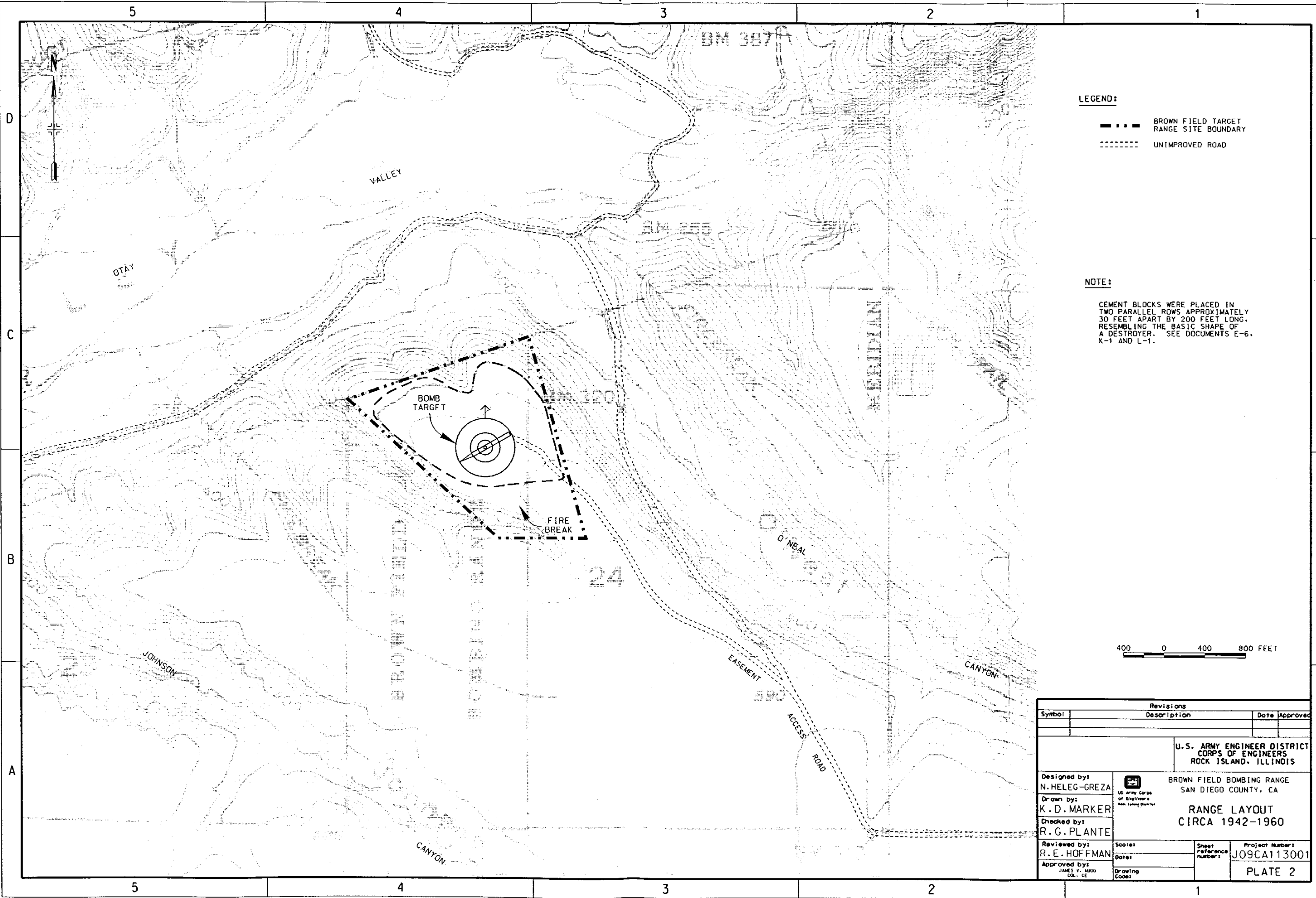
NOTE:
STATE PLANE COORDINATES LOCATED AT BENCHMARKS 320 & 613.



Revisions		Date	Approved
Symbol	Description		
<p>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS</p>			
<p>Designed by N. HELEG-GREZA</p>		<p>BROWN FIELD BOMBING RANGE SAN DIEGO COUNTY, CA</p>	
<p>Drawn by K. D. MARKER</p>		<p>SITE MAP</p>	
<p>Checked by R. G. PLANTE</p>			
<p>Reviewed by R. E. HOFFMAN</p>		<p>Scale:</p>	<p>Project Number: J09CA113001</p>
<p>Approved by JAMES V. LADD COL. CE</p>		<p>Date:</p>	<p>Sheet Reference Number: PLATE 1</p>
<p>Drawing Code:</p>			

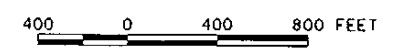
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24-SEP-1997 14:40
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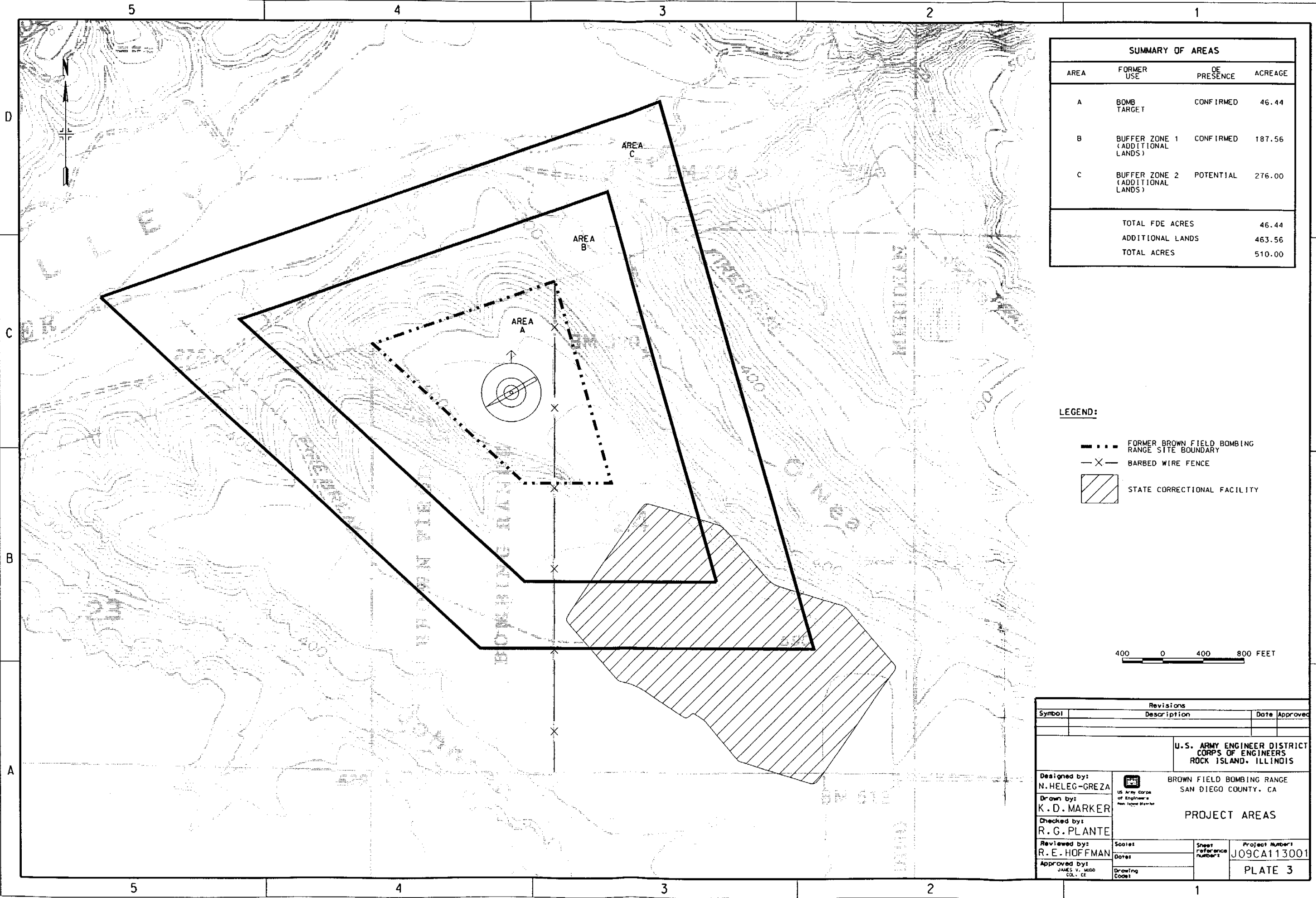
LEGEND:
 - - - - - BROWN FIELD TARGET
 - - - - - RANGE SITE BOUNDARY
 - - - - - UNIMPROVED ROAD

NOTE:
 CEMENT BLOCKS WERE PLACED IN TWO PARALLEL ROWS APPROXIMATELY 30 FEET APART BY 200 FEET LONG, RESEMBLING THE BASIC SHAPE OF A DESTROYER. SEE DOCUMENTS E-6, K-1 AND L-1.



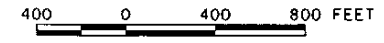
Revisions		Date		Approved	
Symbol	Description				
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS					
Designed by: N. HELEG-GREZA		 BROWN FIELD BOMBING RANGE SAN DIEGO COUNTY, CA			
Drawn by: K. D. MARKER					
Checked by: R. G. PLANTE		RANGE LAYOUT CIRCA 1942-1960			
Reviewed by: R. E. HOFFMAN	Scales: Date:	Sheet reference number:	Project Number: J09CA113001		
Approved by: JAMES V. MIDD COL. CE	Drawing Code:	PLATE 2			

30-SEP-1997 11:53
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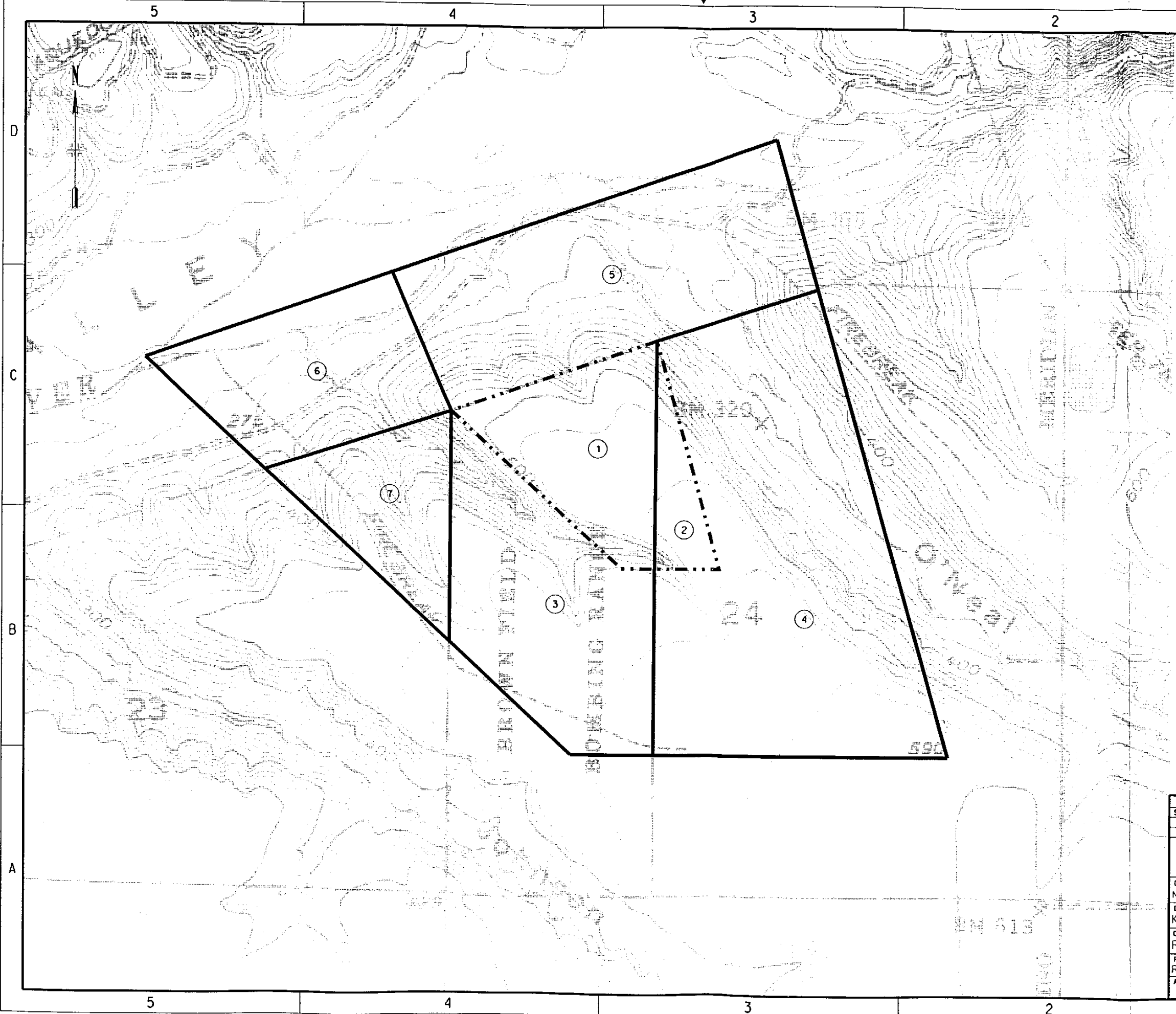
SUMMARY OF AREAS			
AREA	FORMER USE	OF PRESENCE	ACREAGE
A	BOMB TARGET	CONFIRMED	46.44
B	BUFFER ZONE 1 (ADDITIONAL LANDS)	CONFIRMED	187.56
C	BUFFER ZONE 2 (ADDITIONAL LANDS)	POTENTIAL	276.00
TOTAL FDE ACRES			46.44
ADDITIONAL LANDS			463.56
TOTAL ACRES			510.00

- LEGEND:**
- FORMER BROWN FIELD BOMBING RANGE SITE BOUNDARY
 - X- BARBED WIRE FENCE
 - [Hatched Box] STATE CORRECTIONAL FACILITY



Revisions		Date Approved	
Symbol	Description		
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: N. HELEG-GREZA		BROWN FIELD BOMBING RANGE SAN DIEGO COUNTY, CA	
Drawn by: K. D. MARKER			
Checked by: R. G. PLANTE	PROJECT AREAS		
Reviewed by: R. E. HOFFMAN	Scales:	Sheet reference number:	Project Number: JO9CA113001
Approved by: JAMES W. MIND COL., CE	Dates:	Drawing Code:	PLATE 3

30-SEP-1997 12:08
 et:proj\ects\dp257\dp257p4.dgn



OWNERSHIP SUMMARY			
TRACT	OWNER	PRESENT USE	ACREAGE
1	GREGORY SMITH	RANCH LAND	37.01
2	STATE OF CALIFORNIA	CORRECTIONAL FACILITY PROPERTY	9.43
TOTAL ACRES			46.44
3	GREGORY SMITH	RANCH LAND	81.28*
4	STATE OF CALIFORNIA	CORRECTIONAL FACILITY PROPERTY	170.16*
5	DTAY VISTA ASSOCIATES	RANCH LAND	109.25*
6	JEWELS OF CHARITY INC.	RANCH LAND	62.23*
7	THE BALDWIN COMPANY	RANCH LAND	40.64*
TOTAL ADDITIONAL ACRES			463.56
TOTAL FDE ACRES			46.44
TOTAL ACRES			510.00

* NON FUDS ELIGIBLE

NOTE:

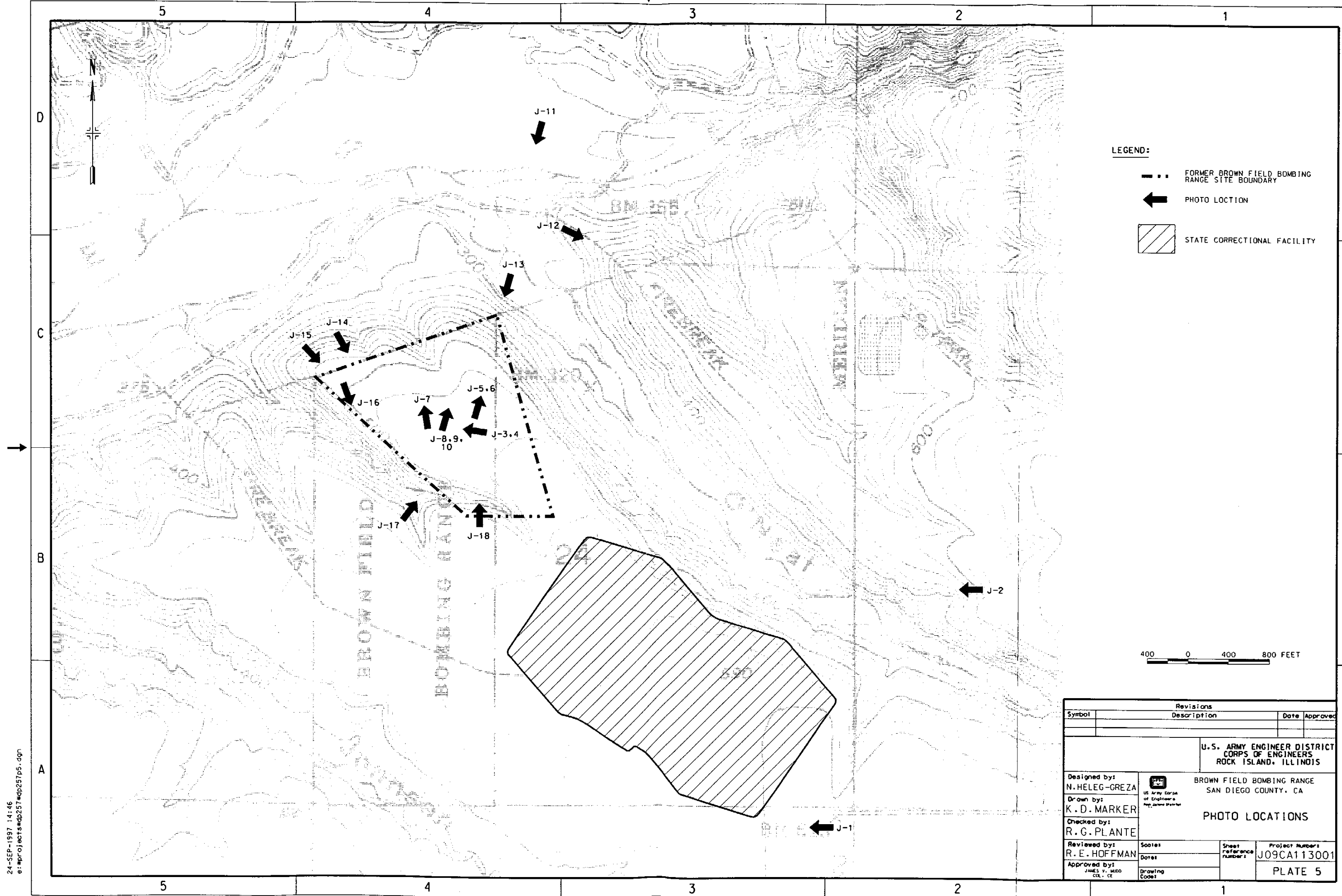
INFORMATION ABSTRACTED FROM DOCUMENT G-4.




LEGEND:

- - - FORMER BROWN FIELD BOMBING RANGE SITE BOUNDARY
- OWNERSHIP BOUNDARY



Revisions			
Symbol	Description	Date	Approved
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS			
Designed by: N. HELEG-CREZA	 BROWN FIELD BOMBING RANGE SAN DIEGO COUNTY, CA	OWNERSHIP 1997	
Drawn by: K. D. MARKER			
Checked by: R. G. PLANTE	Scale:	Sheet reference number:	Project number:
Reviewed by: R. E. HOFFMAN	Date:		J09CA113001
Approved by: JAMES W. 1400 COL. CE	Drawing Code:		PLATE 4



- LEGEND:**
-  FORMER BROWN FIELD BOMBING RANGE SITE BOUNDARY
 -  PHOTO LOCATION
 -  STATE CORRECTIONAL FACILITY

400 0 400 800 FEET

Revisions		Date		Approved	
Symbol	Description				
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS					
Designed by: N. HELEG-GREZA		BROWN FIELD BOMBING RANGE SAN DIEGO COUNTY, CA			
Drawn by: K. D. MARKER					
Checked by: R. G. PLANTE		PHOTO LOCATIONS			
Reviewed by: R. E. HOFFMAN		Scale:	Sheet Reference Number:	Project Number:	
Approved by: JAMES V. MIND COL. CE		Date:	Drawing Code:	J09CA113001	
				PLATE 5	

24-SEP-1997 14:46
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