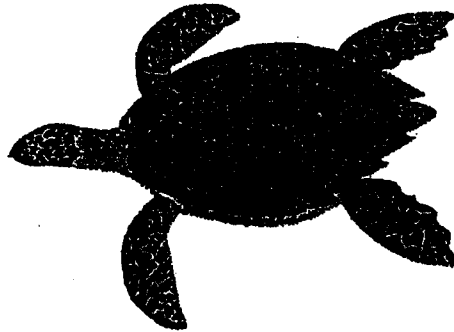




**United States Air Force
15th Air Base Wing
Environmental Restoration Program**

***Final*
GEOPHYSICAL SURVEY RESULTS
FOR DELINEATION OF BURIED
METAL**

**Bellows Air Force Station OU-7
Oahu, Hawaii**



**Prepared for: Air Force Center for Environmental Excellence
Environmental Services Office
Environmental Restoration Division (AFCEE/ERD)
Brooks Air Force Base, Texas 78235-5328**

and

15 CES/CEVR, Hickam Air Force Base, Oahu, Hawaii

Prepared by: OHM Remediation Services Corp., Kapolei, Hawaii

**Contract No. F41624-94-D-8106
Delivery Order 56**

June 19, 1998

4.27 Building 490, ST16

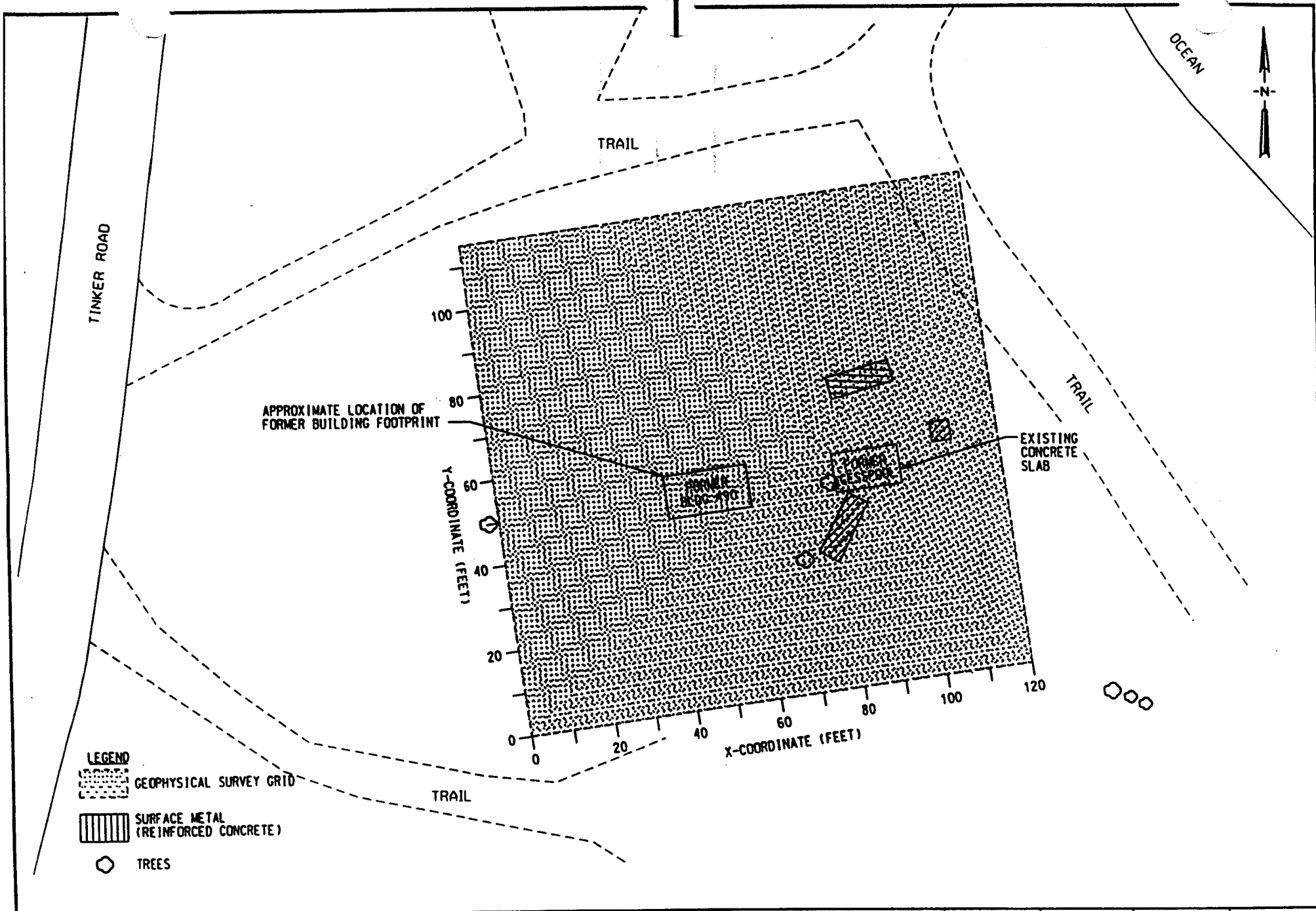
Former Latrine Building 490 is located in a recreational area in the east-central portion of Bellows AFS. This area was formerly used as a base landfill. A heating fuel UST is reportedly located adjacent to former Building 490. The EM metal-locating survey at this site covered an area of 115 feet by 120 feet. Figure 4.27-1 depicts the location of the geophysical survey and surface features that were observed. Figures 4.27-2 and 4.27-3 depict the contour maps of the differential EM data and bottom coil EM data, respectively.




The five EM anomalies detected at former Building 490 are summarized on Table 4.27-1. Their locations are depicted on Figure 4.27-4. Based on their size and shape, Anomalies 1 and 2 are potentially related to a UST. Anomaly 3 is considered to represent an area of ground disturbance containing buried metal objects. Anomalies 4 and 5 are linear in shape and are considered to represent buried pipelines.

Table 4.27-1
Summary of Geophysical Anomalies Detected at Building 490

Anomaly	Anomaly Location (x,y)	Estimated Depth (feet bgs)	Interpretation
1	(20,5)	3	Large (greater than 5-foot-diameter) buried metal object/potentially related to a UST
2	(55,95)	6	Large (greater than 5-foot-diameter) buried metal object/potentially related to a UST
3	(70,100)	6	Large area of disturbed ground containing buried metal objects
4	(100,10)	0.5	Shallow linear buried metal object
5	(120,70)	0.5	Shallow buried pipeline

(x,y) x-coordinate and y-coordinate of anomaly location are from geophysical survey grid in feet.



- LEGEND**
-  GEOPHYSICAL SURVEY GRID
 -  SURFACE METAL (REINFORCED CONCRETE)
 -  TREES

**Site Layout Map
(Former) Building 490
Geophysical Survey**

**Bellows Air Force Station
Oahu, Hawaii**

**SOURCE:
1993 UST PA Report
1996 PA/SI Report**

PROJECT MGR: JWB	DESIGNED BY: GPV	DRAWN BY: SEN	PROJECT NO.: 19688
CHECKED BY: GPV	SCALE: 1"=30'	DATE: 2/25/98	FIGURE NO.: 4.27-1

Differential EM61 Data

Building 490

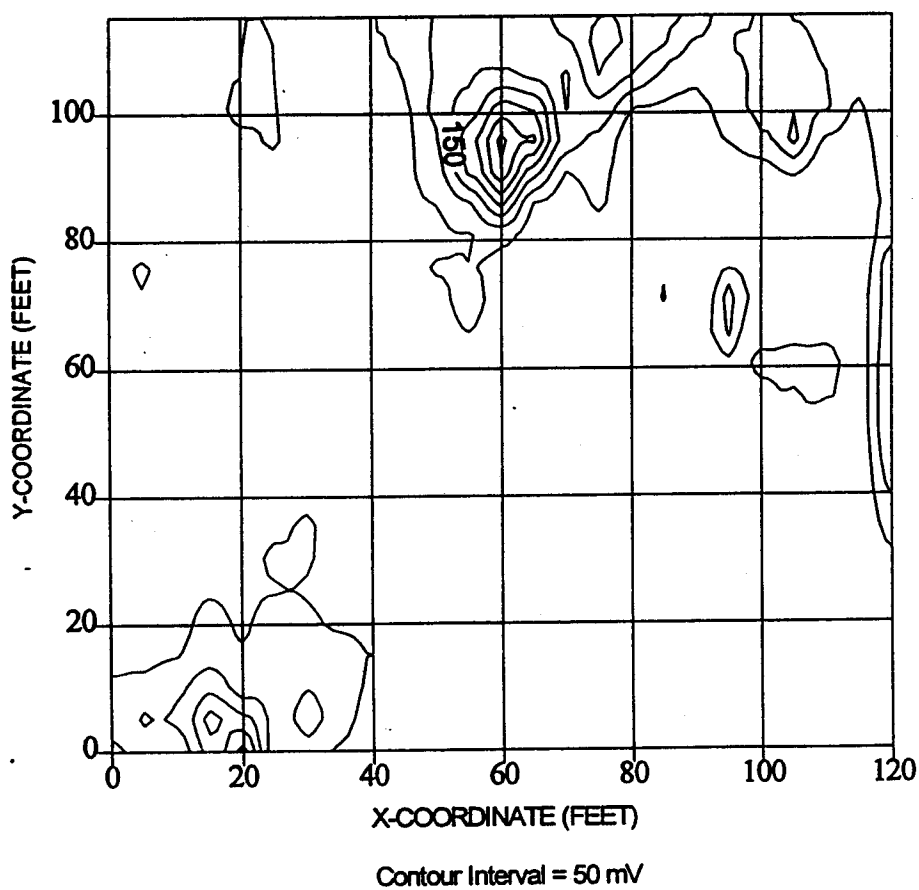


Figure 4.27-2 Differential EM61 Data, Building 490

Bottom Coil EM61 Data

Building 490

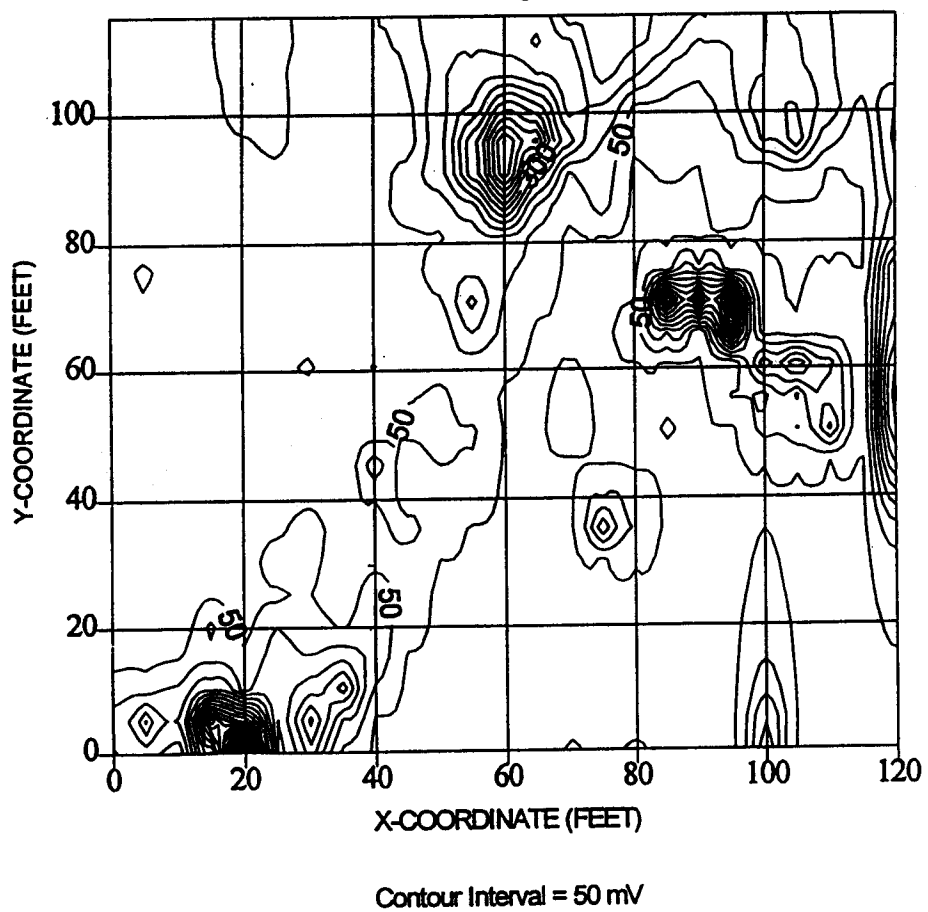
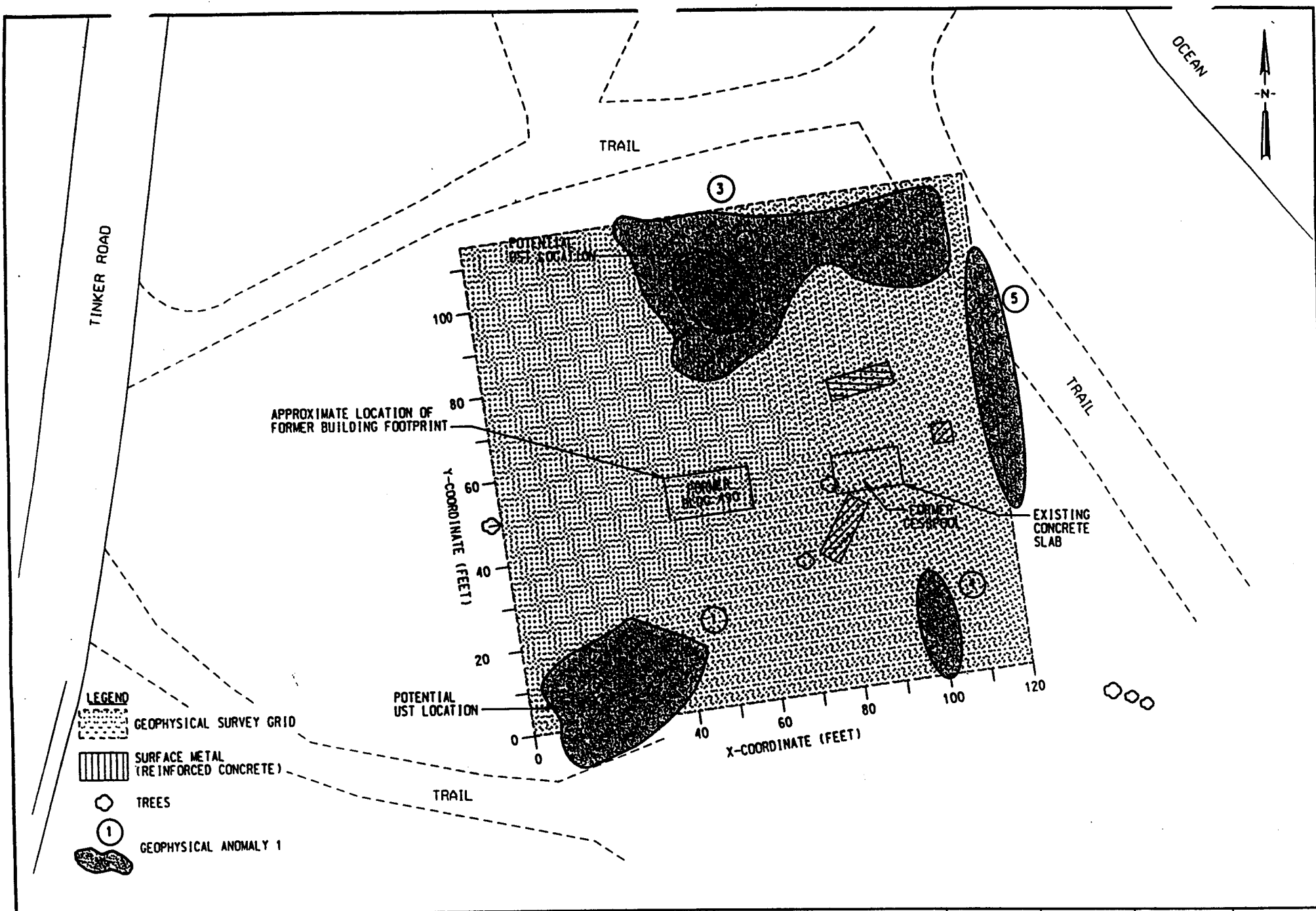


Figure 4.27-3 Bottom Coil EM61 Data, Building 490



Anomaly Location Map
(Former) Building 490
Geophysical Survey

Bellows Air Force Station
Oahu, Hawaii

SOURCE:
1993 UST PA Report
1996 PA/SI Report

PROJECT MGR: JRB	DESIGNED BY: GPY	DRAWN BY: SEN	PROJECT NO. 19688
CHECKED BY: GPY	SCALE: 1"=30'	DATE: 2/25/97	FIGURE NO. 4.27-4