8838 172 UNCLASSIFIED 5th MarDiv, In the Field, 16 Nov 1944. D-2 SPECIAL STUDY OF THE ENEMY SITUATION CONTENTS

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A. TABLE OF DISTANCES

(1) All distances from the objective shown below are in nautical miles:

ENEMY BASES

нана јіма	.120
CHICHI JIMA	.140
PAGAN.	.470
HACHIJO JIMA	
MINAMI DAITO JIMA.	. 525
NII JIMA	.580
KUSHIMOTO	600
TATEYAMA N.A.S	615
NAGOYA	645
<u> ҮОКОНАМА</u>	. 645
MARCUS	650
TOKYO	660
AMAMI O SHIMA	675
OKINAWA JIMA	.740
FUSAN	900
YAP.	. 936
SHANGHAI	L.070
PALAU.	1,110
TAKAO, FORMOSA	L,160
TRUK	1,209
MANILA	1,290
WAKE.	1,441

ALLIED BASES

SAIPAN625 GUAM..... ULITHI..... 888 LNIWETCK. 1,440 KWAJALEIN....1,760 PEARL HARBOR 3,330



y authority of

J. KELLER Maj., Inf. Custodian

B. HISTORY AND POPULATION

(1) NANPO SHOTO, or "Southern Islands," is a chain of small volcanic hlands running in a long line from almost the outskirts of TOKYO southward toward the MARIANAS. O SHIMA at the north is 65 miles from TOKYO. WORKMAN at uth is about 300 miles north of the MARIANAS and 660 miles from TOKIO, These islands guard the immediate approach to TOKYO and their TEL AT & ALL TO EVAL

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D-2 SPECIAL STUDY OF THE ENEMY SITUATION (CONT'D)

value is more military than economic. They are under the jurisdiction of the TOKYO Prefectural Government and are administered as an integral part of JAPAN. All of NANPO SHOTO is peopled by Japanese, early Caucasian and Hawaiian settlers having lost their racial identity by intermarriage. The religion is that of the Japanese mainland with Buudhism and Shintoism predominating. Few of the natives are Christians. The VCL-CANO ISLANDS (KAZAŃ RETTO) were discovered in 1543 by the Spaniard, Bernard de Torres. The Japanese commenced colonization in 1887 and by 1891 had such a firm grip on the islands that they were incorporated into the Ogasawara Branch Administration.

Of the KAZAN RETTO, the only island of importance is WORKMAN. Its importance is almost entirely military and lies in the fact that the island has enough flat ground to accomodate airfields. WORKMAN has approximately 1091 civilian inhabitants living largely at MOTO YAMA in the northern part of the island, who make their living by growing sugar cane and vegetables, by fishing and working at the sugar refinery. Sulphur, in considerable quantities, is present, but it has not been definitely ascertained how much use is made of it. Banana and coconut trees grow abundantly in the low places. There are no perennial streams on the island, and the Japanese have been forces to produce water from sulphur springs in addition to using catchments.

C. TERRAIN ANALYSIS

(1) Terrain: General

WORKMAN is essentially a volcanic island. The dome-shaped northern half of the island is formed by several rocky hills, ranging from 340' to 387' in height. This is connected by a narrowing neck of land to SURIBACHI YAMA (MOUNTAIN), a volcanic cone rising precipitously from the sea to a height of about 556', and forming the southern point of the island. The island is about 9,000 yards long in a NE-SW direction, and about 4,700 yards across, NW-SE, at the widest point in the northern half. The neck of land connecting SURIBACHI YAMA to the northern part of the island narrows to a width of about 700 yards, just north of that volcano. The northern end of the island is generally round in shape.

A plateau about one mile in diameter comprises the central area of the northern half of the island. The surface is irregular but maximum difference in elevation amounts only to about 50 feet. Slopes from the north central plateau to the coast have an average grade of about one in ten, but they are rough and irregularly broken by rocky cliffs in many places. The slope southwestward from this plateau, along the ridge of the narrow neck of land to SURIBACHI YAMA, is gentle, about one in fifty. The slopes from the axis of this ridge to the beaches have an average gradient of about one in fifteen. The ridge reaches a low of about 100 feet just north of SURIBACHI YAMA. (See Terrain Analysis Map for general contour of island.)

(2) <u>Coastline</u>

The coactions of the northern half of WORKMAN may be described generative end of the northern half of WORKMAN may be described rener to the southeast coast, from KITANO to make the southeast to the easternmost point of the island, is composed of dark volcanic sand. Although relatively smooth, the beach here is narrow and steep, and in places is broken by rough rock outcrops. This beach is backed by very rough terrain and is irregularly obstructed

D-2 SPECIAL STUDY OF CONTINUES SITURTION (CONTIN

by rocky shoals. The remainder of the northern coast is very rough, immediately backed by serrated rock cliffs, and obstructed by boulders with no real beaches.

The southern half of the island affords good beaches of dark volcanic sand on both the east and west sides, beginning just north of SURIBACHI IAMA.

(3) <u>Streams</u>

There are no perennial streams on the island.

(4) <u>Conditions of Soil</u>

In general, the dome-shaped northern part of WORKMAN has a thin soil cover, bed rock being exposed over more than half of its surface. Over the remainder of the northern part, the soil probably has an average depth of only a few feet at most, and as a result, digging-in can be expected to be difficult in this area. SURIBACHI YAMA is a rocky cone with no soil at all over most of its area. The soil on the ridge connecting SURIBACHI YAMA with the north-central plateau has an estimated depth of from five to ten feet and there are no extensive rock outcrops on this ridge. The soil of the upland areas is a stony clay which is dusty when dry and very slippery when wet. It drains and dries rapidly in its natural state.

The beaches and low slopes of the ridge are composed of dark, course, volcanic sand.

(5) Vegetation in Division Zone of Action

There is no vegetation in the eastern landing beach area to provide concealment or hinder movement of troops.

The west slopes of the central portion of WORKMAN are checkared with what appear to be fields under cultivation, separated by hedgerows 10 to 15 feet high.

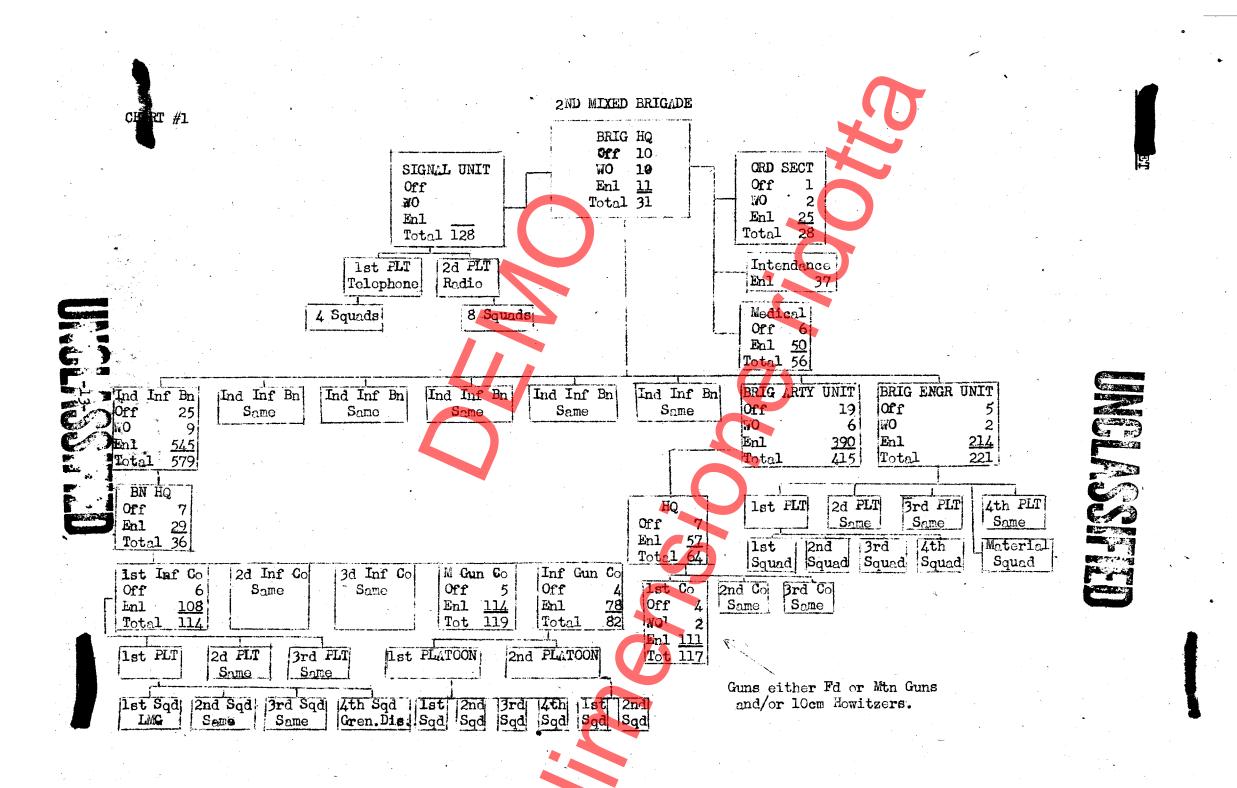
Grass and low scrub trees, sufficiently heavy to offer good concealment, cover much of the slopes of the northern half of the island.

around the base of SURIBACHI YAMA, going from the west to the northeast, there is a fringe of woods and scrub growth which grows up the side of the mountain for about 150 feet on the northwest and parts of the north side. The trees and scrub growth in this area vary in height from 10 feet to 25 feet. On the northwestern rim of the crater is a patch of trees and scrub, with one small clump on the northern rim. The fields on the northern edge of the woods at the base of SURIBACHI YAMA are separated by five finger-like wooded projections and contained sugar cane from 3 to 4 feet high on 25Sep44. Wooded areas and cane fields at the base of SURIBACHI YAMA are crisscrossed with track activity.

See Military Obstacles Map for sugar cane cultivation in Div ZofA.

(6) <u>Critical Terrain Features</u>

a. <u>SURIBACHI YAMA</u>. This mountain, at the southern end of the island, rises to a maximum height of 556 feet, commands the approaches to



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(2) MAPIRE (HONSHU, KYUSHU; N. NANSEI SHOTO)

In view of the great threat to the Empire by the attack on the target, it must be assured that overy available plane will be used to oppose our landing and susceeding operations.

Operations since IC Outcher 1914 have seriously dopleted air strength maich the enemy had been boarding in the Empire since June. This is particularly true or nevel air strength

It is believed that there are about 500 plones with sufficient operating range to reach the target directly from the homeland. These probably will course from the concentration of airfields in the TONYO-YOKOHAMA-ONDEL SAN areas. By the use of MACHINO JUMA, in the northorn NANFO SHOTO, as a refueling point, many additional planes, including, single engine bonders and fighters may be brought within effective supporting distance of WORKMAN.

(3) SOUTHERN NANSEL SHOTO

Our attack may also bring enemy air reaction from planes based on the five fields in the OKLNAWA area, 740 miles away. These planes may use MINAMI DAITO SHIMA (25°50'N:131°14'E), 525 miles west of WORKMAN as a refueling point.

(4) CARRIER-BASED AIRCRAFT

Since the beginning of the MARIANAS operations, there have been heavy losses inflicted on the enemy, both in carriers puck and dataged, and in carrier aircraft and pilots eliminated. The losses suffered in the two fleet engagements in the FHILIPPINE area have probably loss them with few well-trained carrier pilots.

Although it is not definitely known what energy write were sunk and to what extent others were damaged, it is estimated that the energy cannot have carrier capacity, now operational, for nore than about 400 planes.

BY COMMAND OF MAJOR GENERAL ROCKEY :

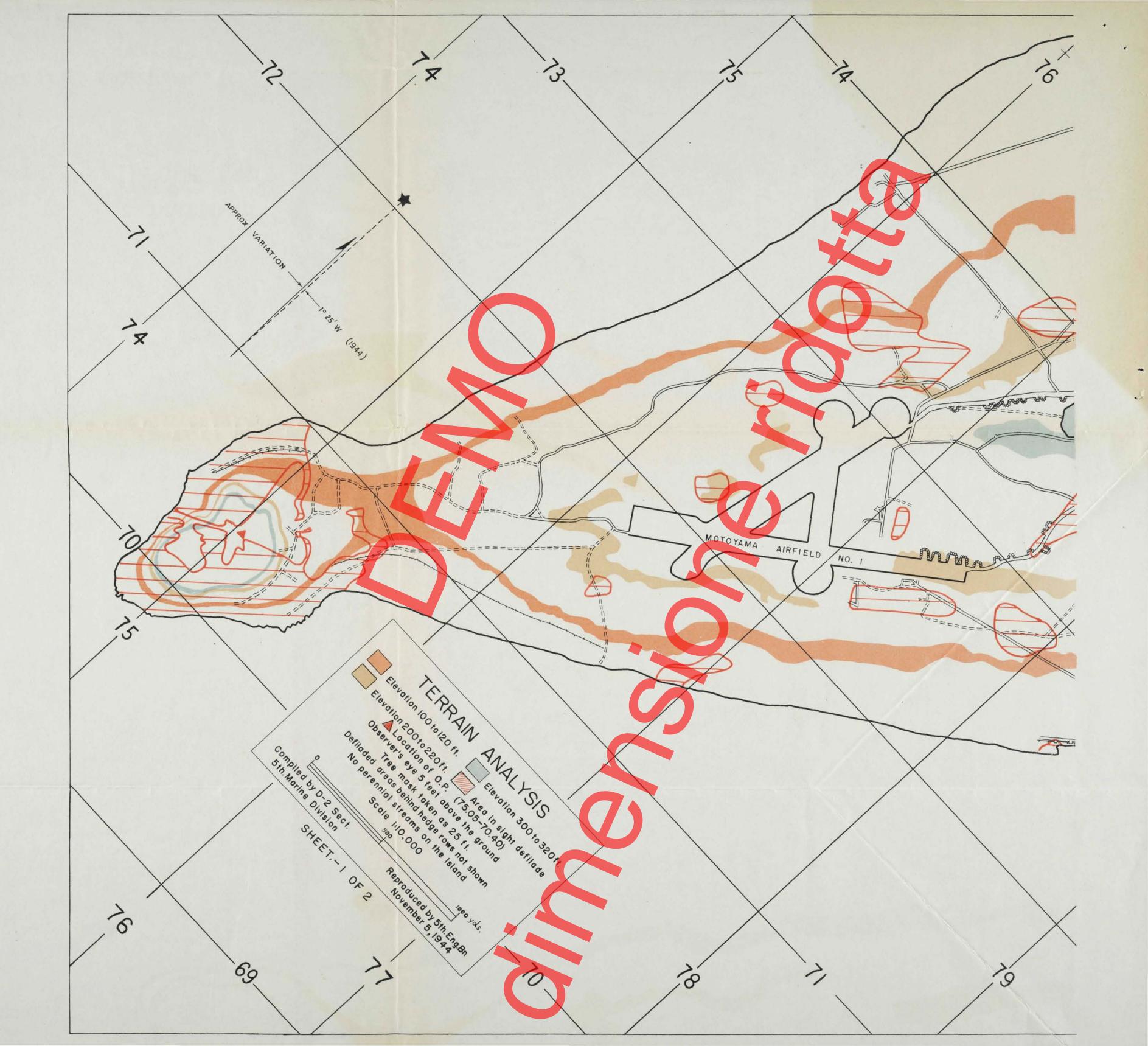
Chief of Staff.

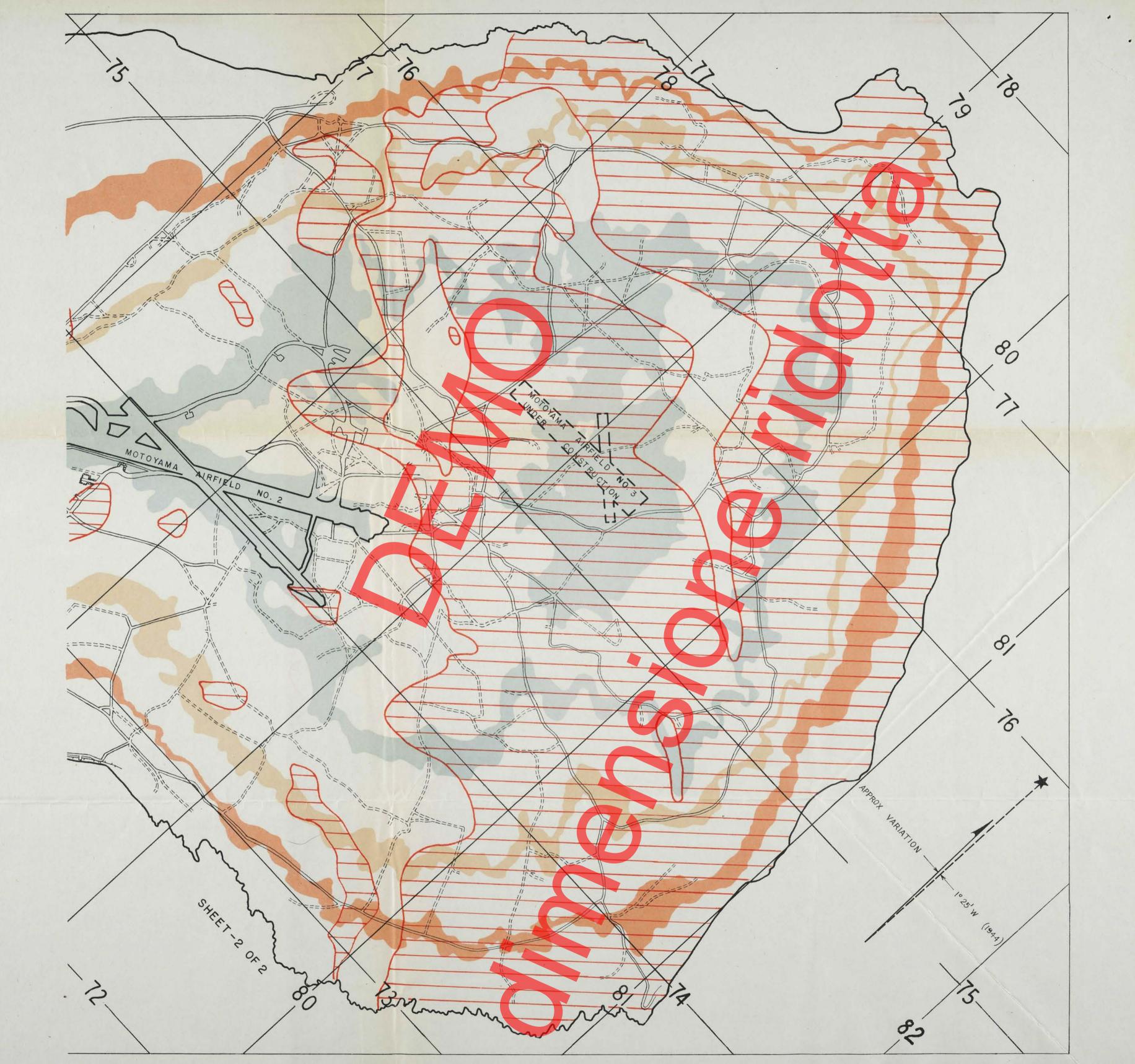
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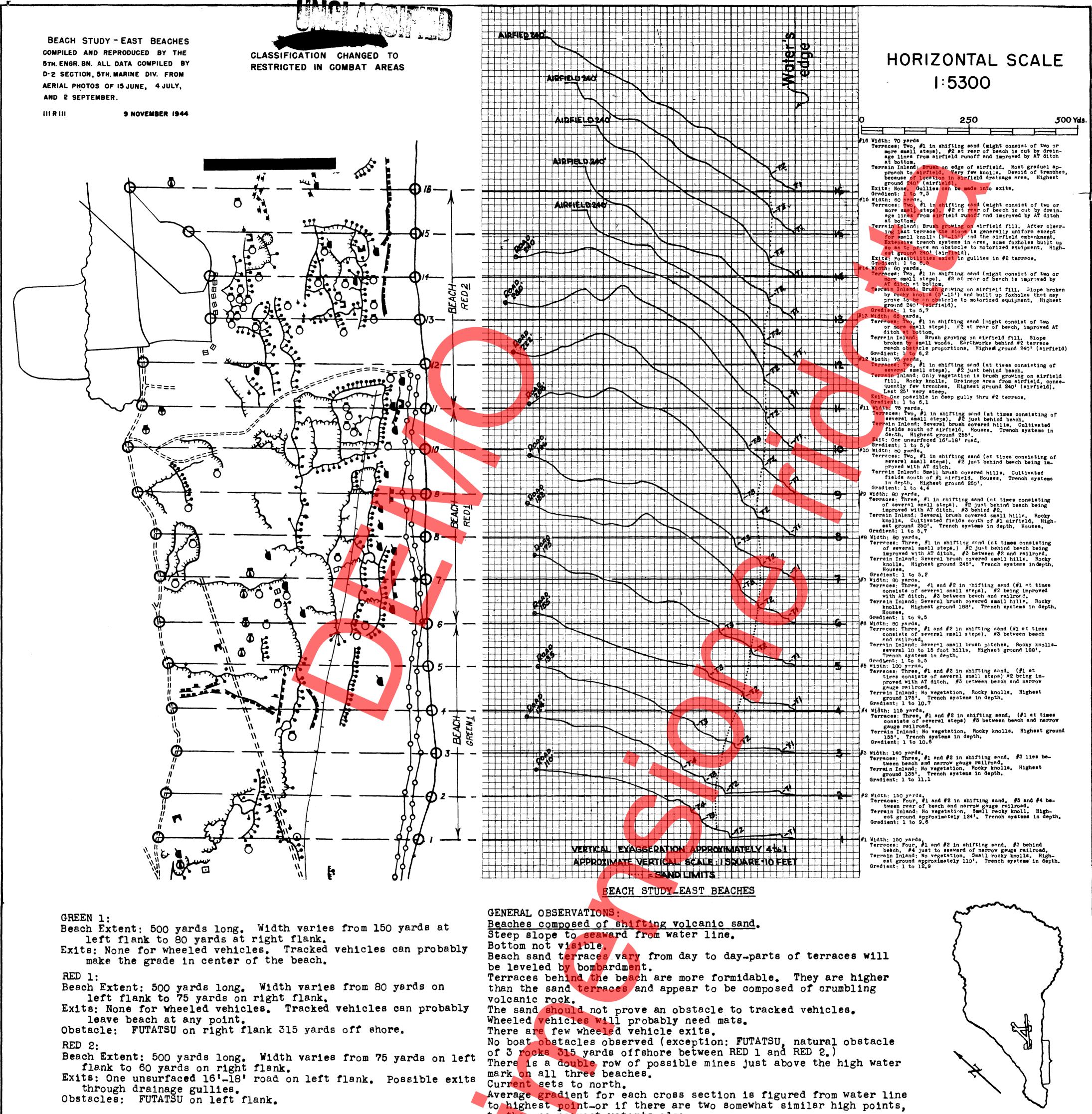
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longe (1. Noll GEORGE A. ROLL. LtCol, USMC D-2.







to the one nearest water's edge.

NOTE: Study based on interpretation of aerial photos of 15 June, 4 July and 2 September.

