

SPACE SHUTTLE

LANDING SITE CHARTS

AREA CHART - 1	1:2,000,000 Scale
AREA CHART - 2	1:1,000,000 Scale
RUNWAY CHART - 1	1:250,000 Scale
RUNWAY CHART - 2	1:62,500 Scale

LANDING SITES

EDWARDS AIR FORCE BASE, CALIFORNIA
NORTHROP STRIP, NEW MEXICO
KENNEDY SPACE CENTER, FLORIDA
ROTA NAVAL STATION, SPAIN
KADENA AIR BASE, OKINAWA
HICKAM AIR FORCE BASE, HAWAII

STS-3

JANUARY 1982

CONTENTS

EDWARDS AIR FORCE BASE

Area Charts 1 and 2
Runway Charts 1 and 2 for Runways 04, 15, 17L and 23

NORTHROP STRIP

Area Charts 1 and 2
Runway Charts 1 and 2 for Runways 05, 17, 23 and 35

KENNEDY SPACE CENTER

Area Charts 1 and 2
Runway Charts 1 and 2 for Runways 15 and 33

ROTA NAVAL STATION

Area Charts 1 and 2
Runway Charts 1 and 2 for Runways 10 and 28

KADENA AIR BASE

Area Charts 1 and 2
Runway Charts 1 and 2 for Runways 05L and 23R

HICKAM AIR FORCE BASE

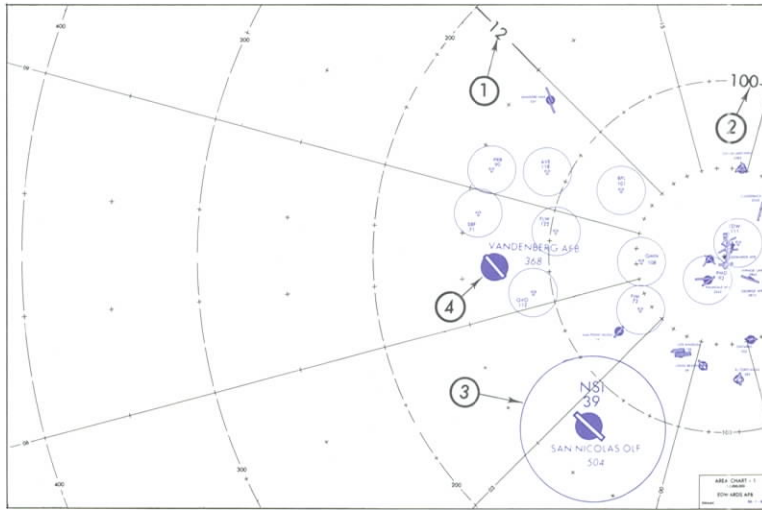
Area Charts 1 and 2
Runway Charts 1 and 2 for Runways 08R and 26L

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LEGEND

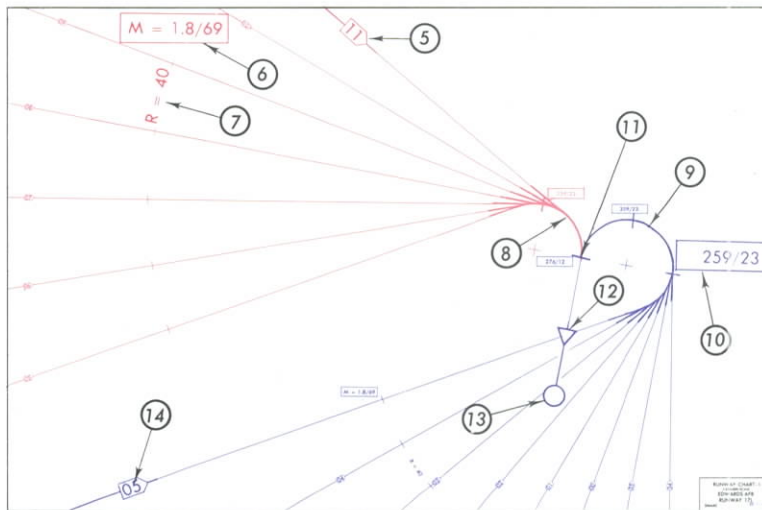
LANDING SITE CHARTS

AREA-1&2
Scale 1:2,000,000
and 1:1,000,000



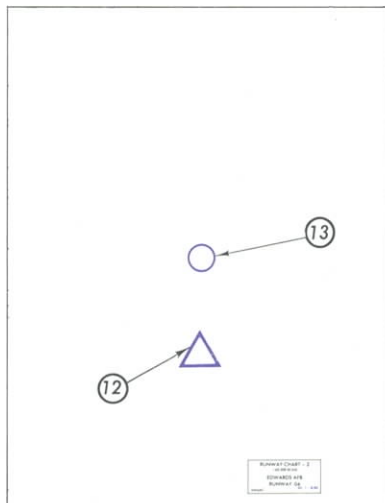
- ① Magnetic Heading to Landing Site
- ② Distance to Landing Site (nautical miles)
- ③ TACAN Station (in onboard maxi-table)
- ④ Airfields with runway length >10,000 feet.

RUNWAY - 1
Scale 1:250,000



- ⑤ Magnetic Headings to Right Heading Alignment Cylinder
- ⑥ Nominal Velocity (MACH number) and Altitude (k feet)
- ⑦ Range to Runway Threshold (nautical miles)
- ⑧ Right Heading Alignment Cylinder (Red)
- ⑨ Left Heading Alignment Cylinder (Blue)

RUNWAY - 2
Scale 1:62,500



- ⑩ Nominal Velocity (knots) and Altitude (k feet)
- ⑪ Nominal Entry Point
- ⑫ Aim Point
- ⑬ Touchdown Point
- ⑭ Magnetic Heading to Left Heading Alignment Cylinder

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126W

125W

124W

123W

122W

400

300

SANTA CRUZ
MONTEREY BAY

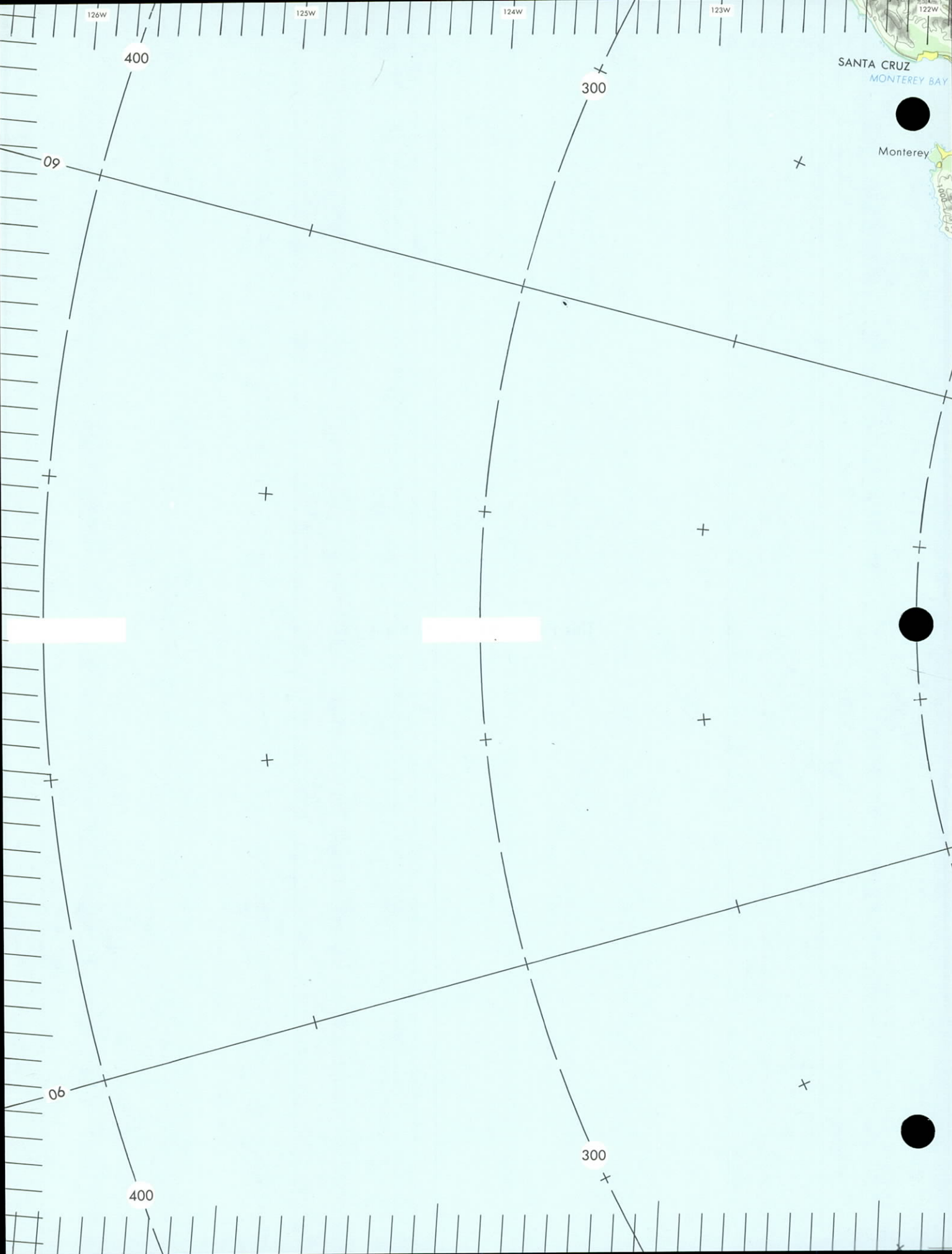
Monterey

09

06

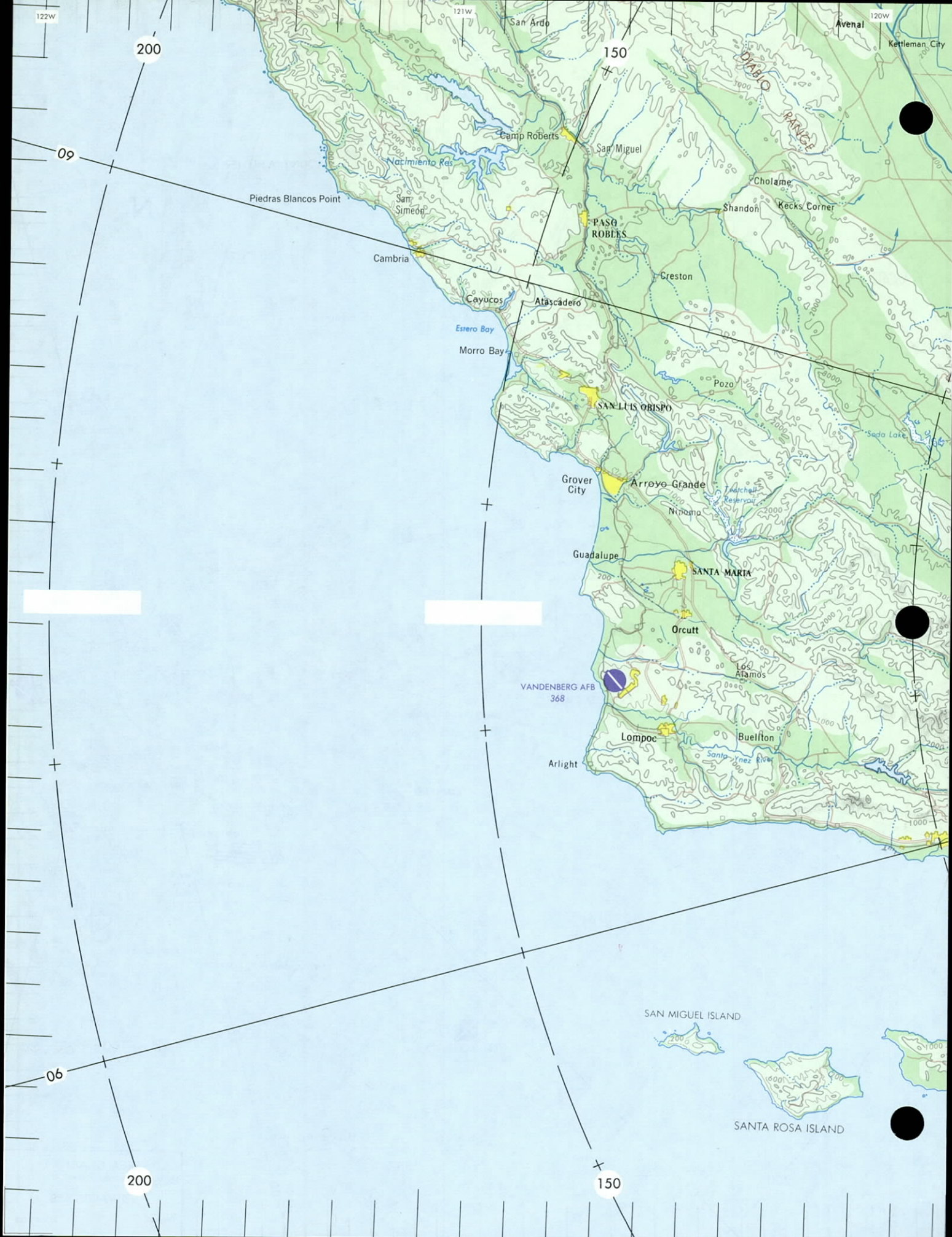
400

300





AREA CHART - 1
1:2,000,000
EDWARDS AFB
DMAAC ED. 4-1/82



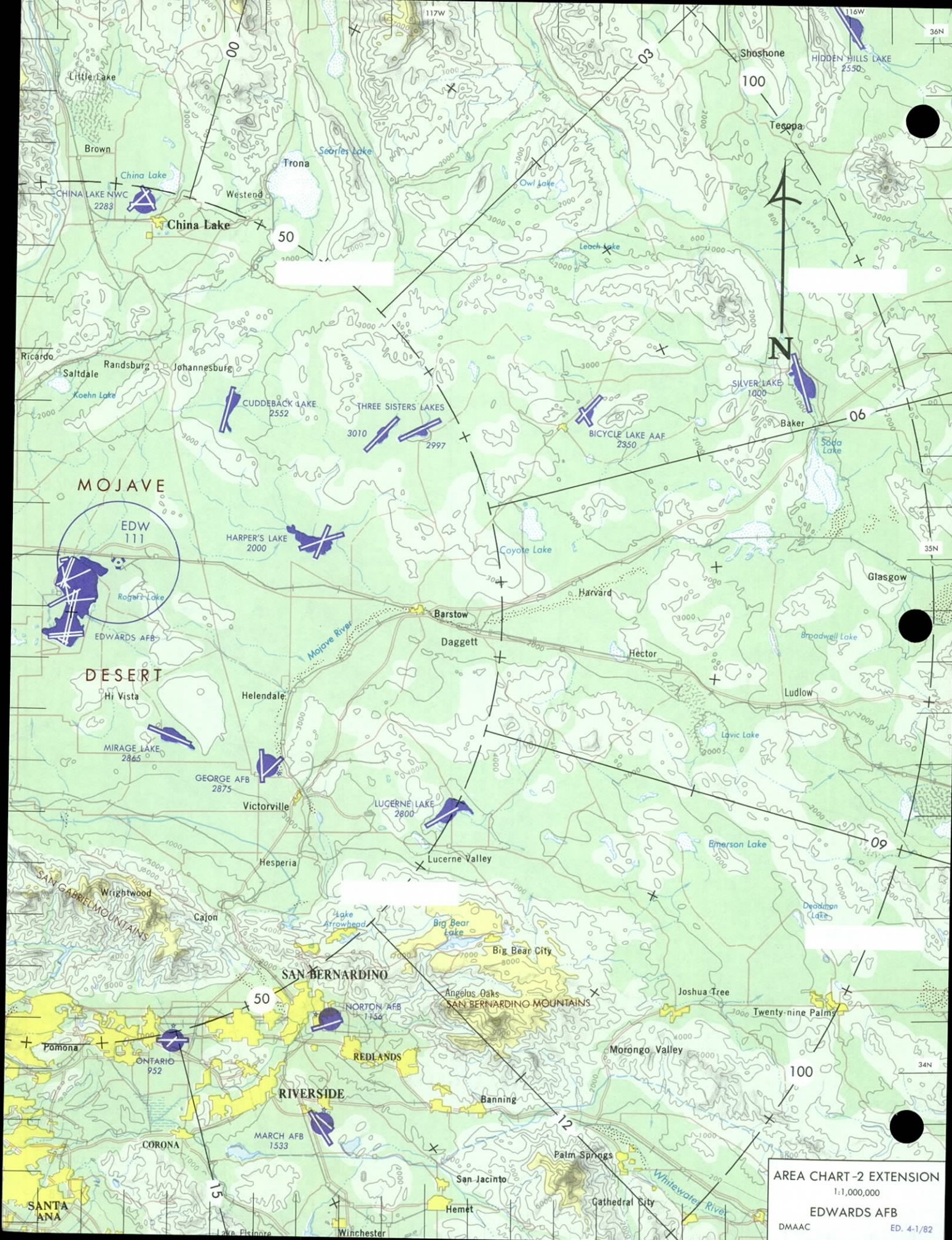


AREA CHART - 2
1:1,000,000

EDWARDS AFB

DMAAC

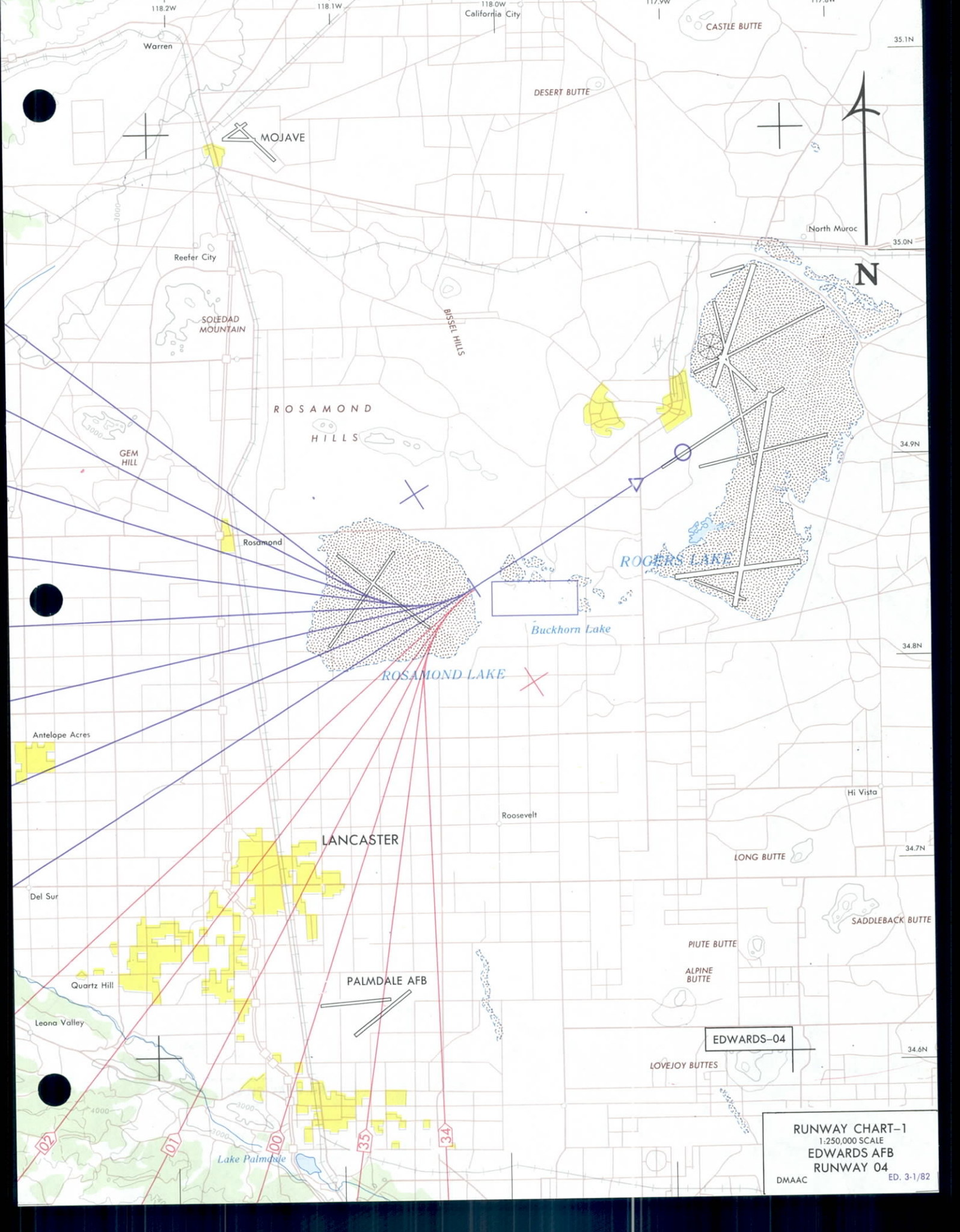
ED. 4-1/82



AREA CHART -2 EXTENSION
 1:1,000,000
EDWARDS AFB
 DMAAC ED. 4-1/82

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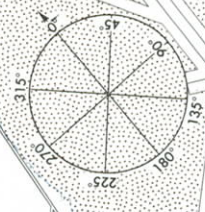
RUNWAY CHART-1
1:250,000 SCALE
EDWARDS AFB
RUNWAY 04
DMAAC ED. 3-1/82

ROGERS LAKE

Edwards
Air Force Base

South Base

Wherry
Housing



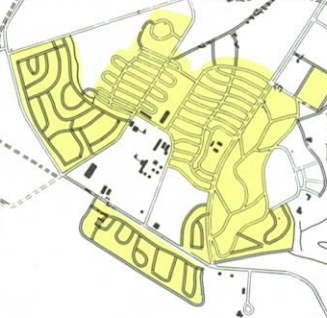
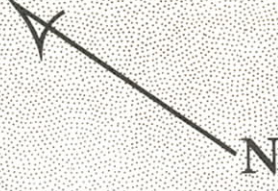
31200x300

39200x300

26500x300

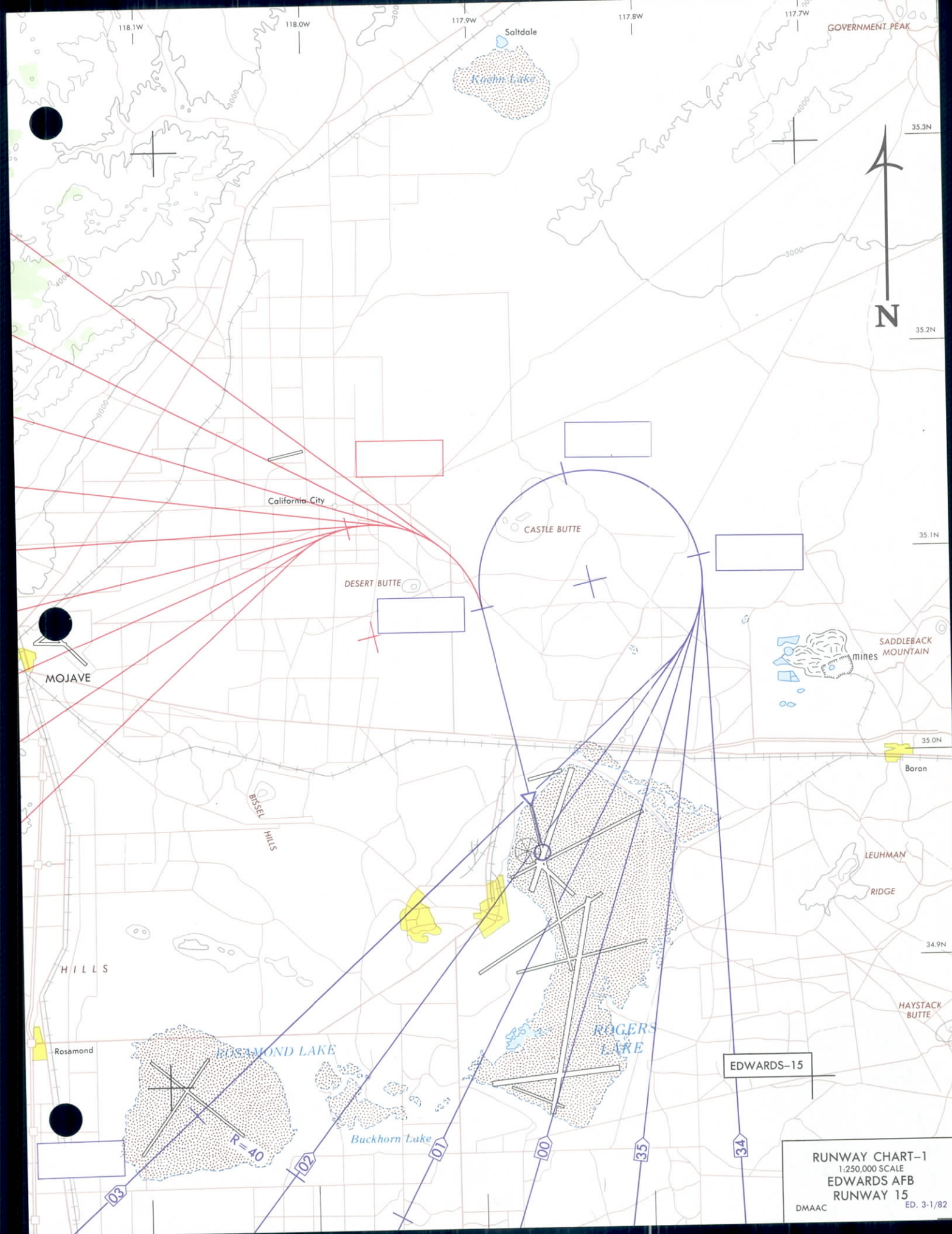
EDWARDS-04

RUNWAY CHART-2
 1:62,500 SCALE
EDWARDS AFB
RUNWAY 04
 DMAAC ED. 3-1/82



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RUNWAY CHART-1
 1:250,000 SCALE
 EDWARDS AFB
 RUNWAY 15
 DMAAC ED. 3-1/82



24000 X 300

South Base

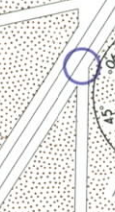
26500 X 300

Edwards Air Force Base

ROGERS LAKE

26600 x 300

23000 x 300



North Base

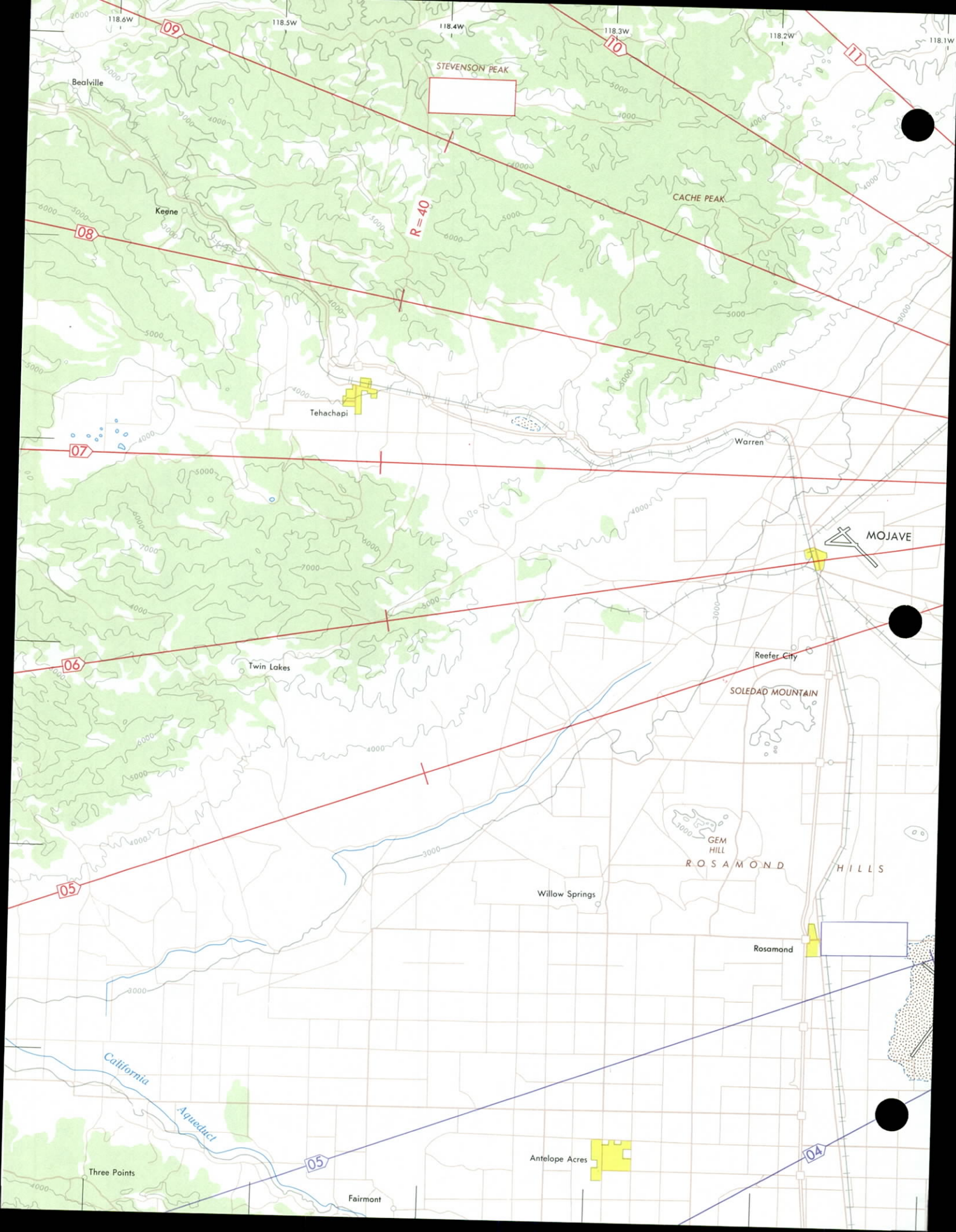
North Muroc

North Edwards

EDWARDS-15

RUNWAY CHART - 2
 1:62,500 SCALE
 EDWARDS AFB
 RUNWAY 15
 DMAAC ED. 3-1/82

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STEVENS ON PEAK

CACHE PEAK

MOJAVE

SOLEDAD MOUNTAIN

GEM HILL

ROSAMOND HILLS

118.6W

118.5W

118.4W

118.3W

118.2W

118.1W

09

10

11

Bealville

STEVENS ON PEAK

4000

5000

6000

7000

8000

R=40

CACHE PEAK

08

9000

10000

11000

12000

13000

14000

15000

16000

17000

18000

07

Tehachapi

Warren

19000

20000

21000

22000

23000

06

Twin Lakes

24000

25000

26000

27000

28000

05

Willow Springs

29000

30000

31000

32000

33000

California Aqueduct

Reefers City

Rosamond

Three Points

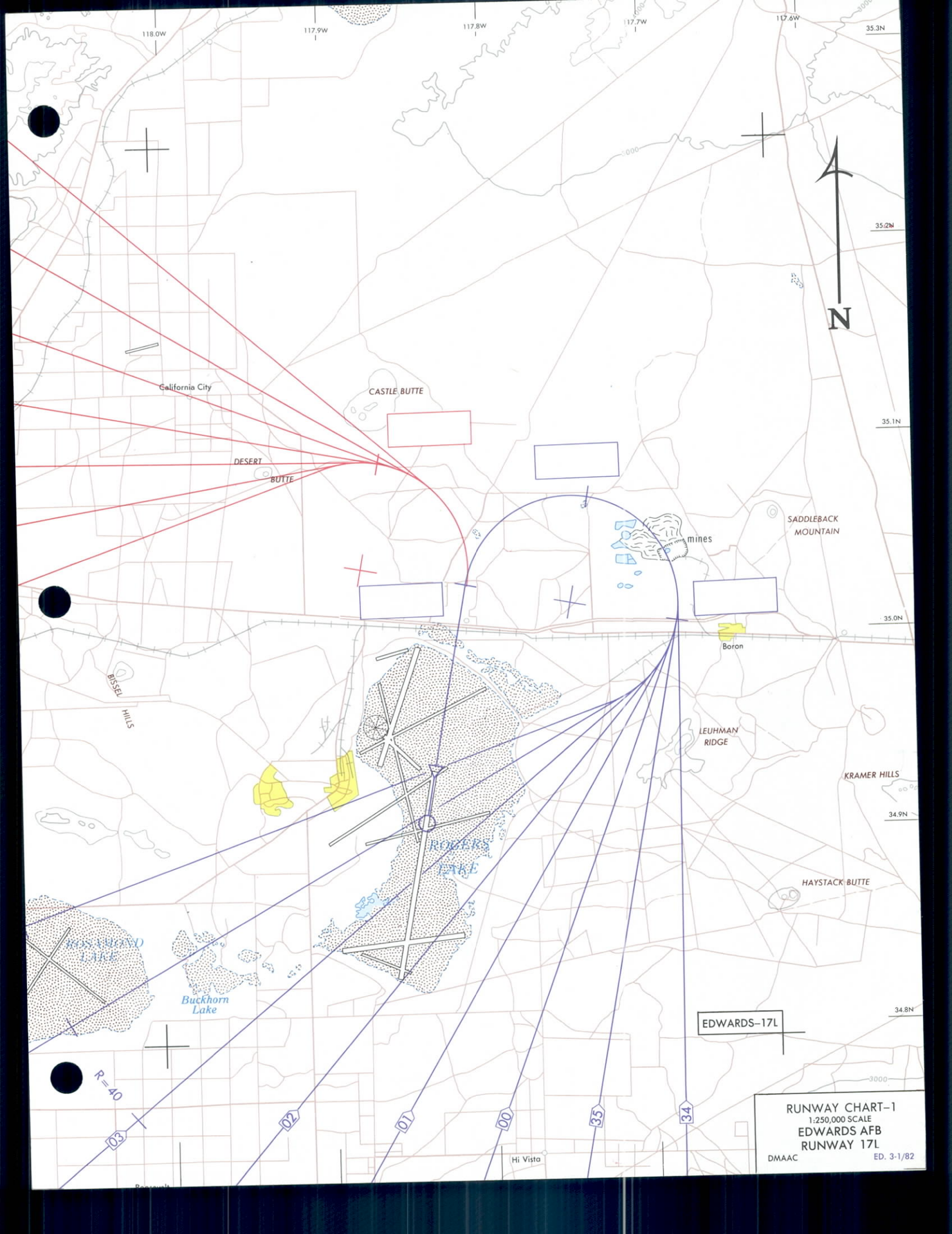
05

Fairmont

Antelope Acres

04





118.0W

117.9W

117.8W

117.7W

107.6W

35.3N

35.2N

35.1N

35.0N

34.9N

34.8N

California City

CASTLE BUTTE

DESERT BUTTE

mines

SADDEBACK MOUNTAIN

Boron

LEUHMANN RIDGE

KRAMER HILLS

HAYSTACK BUTTE

BESEL HILLS

ROSALIND LAKE

Buckhorn Lake

ROGERS LAKE

EDWARDS-17L

Hi Vista

R=40

RUNWAY CHART-1
1:250,000 SCALE
EDWARDS AFB
RUNWAY 17L

DMAAC

ED. 3-1/82

N

10000 x 300

23200 x 300

39200 x 300

24000 x 300

26500 x 300

South Base

Edwards Air Force Base

ROGERS LAKE

17



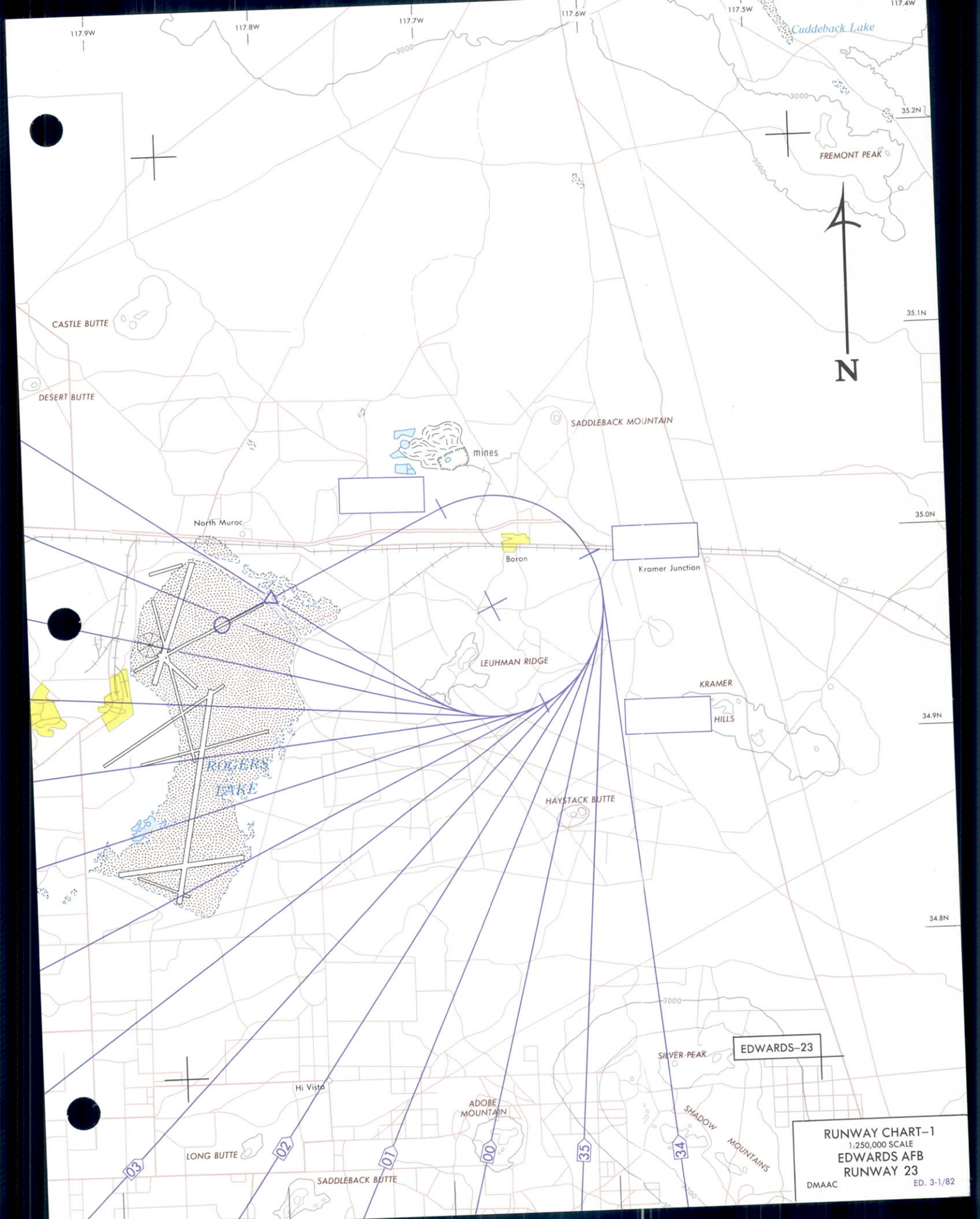
EDWARDS-17L

RUNWAY CHART - 2
 1:62,500 SCALE
 EDWARDS AFB
 RUNWAY 17L
 DMAAC ED. 3-1/82

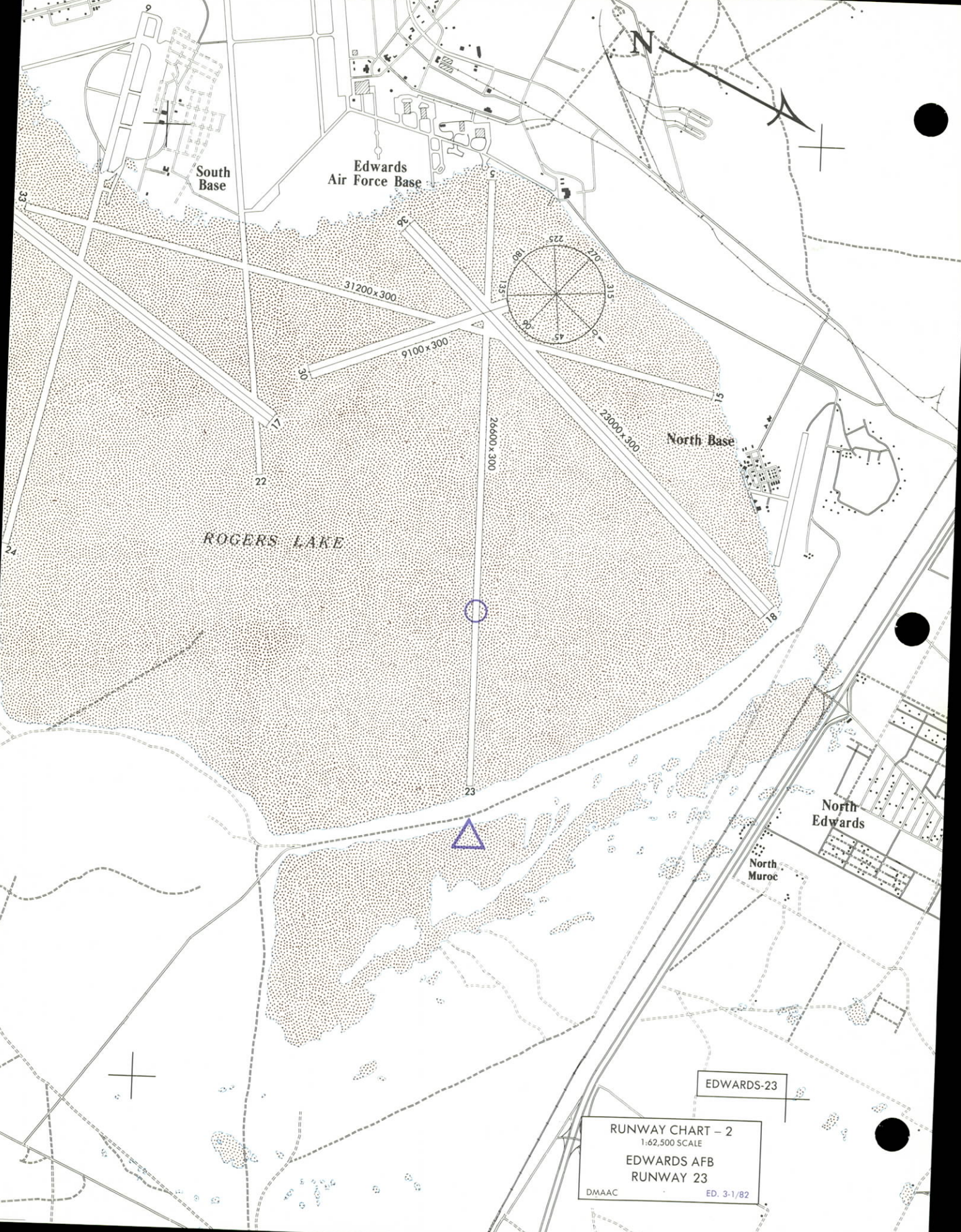
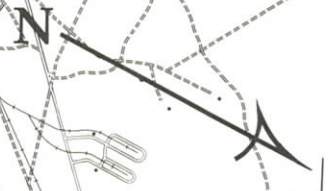


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RUNWAY CHART-1
1:250,000 SCALE
EDWARDS AFB
RUNWAY 23
DMAAC ED. 3-1/82



South Base

Edwards Air Force Base

North Base

ROGERS LAKE

North Edwards

North Muroc

EDWARDS-23

RUNWAY CHART - 2
1:62,500 SCALE
EDWARDS AFB
RUNWAY 23
DMAAC ED. 3-1/82

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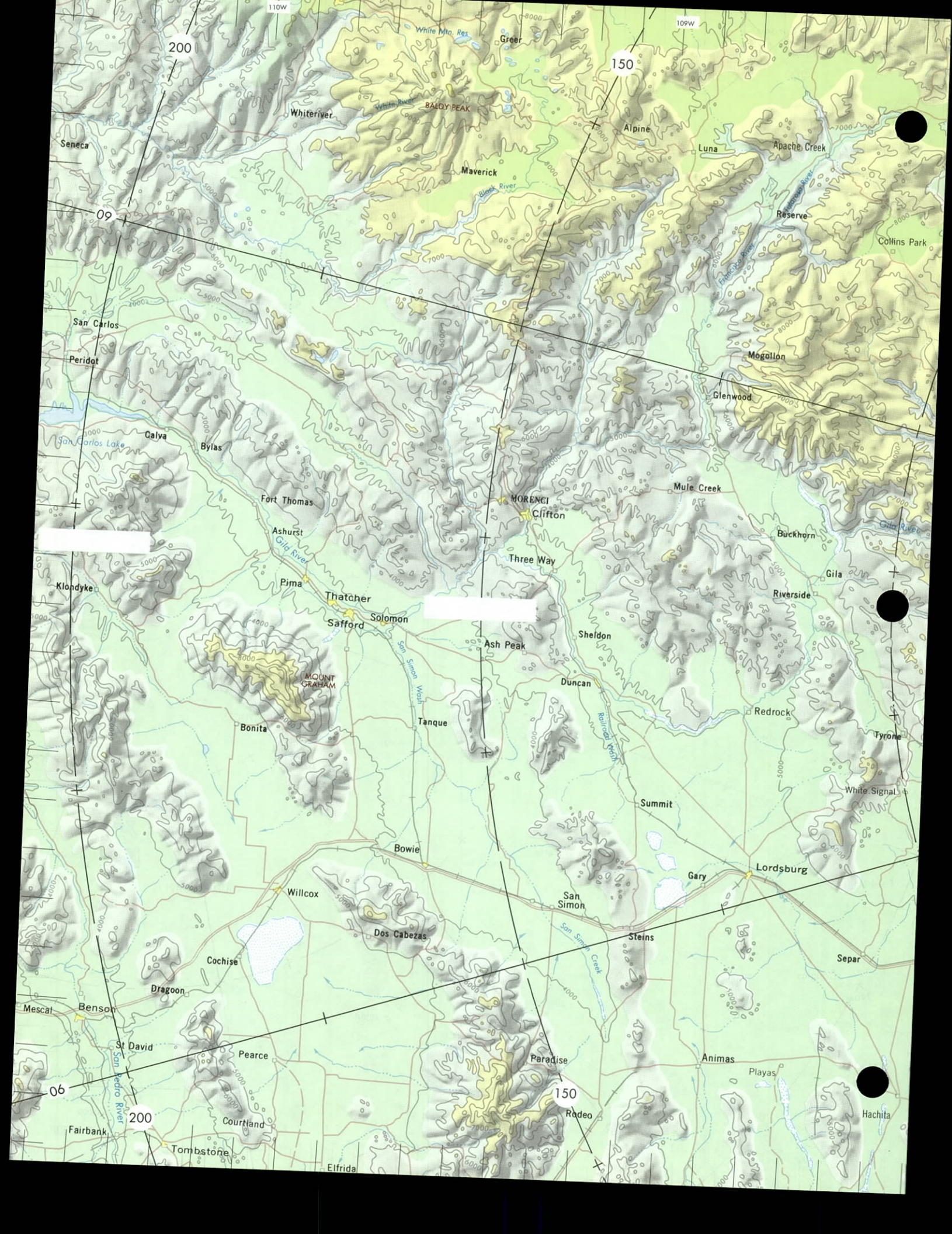


AREA CHART - 1
1:2,000,000

NORTHROP STRIP

DMAAC

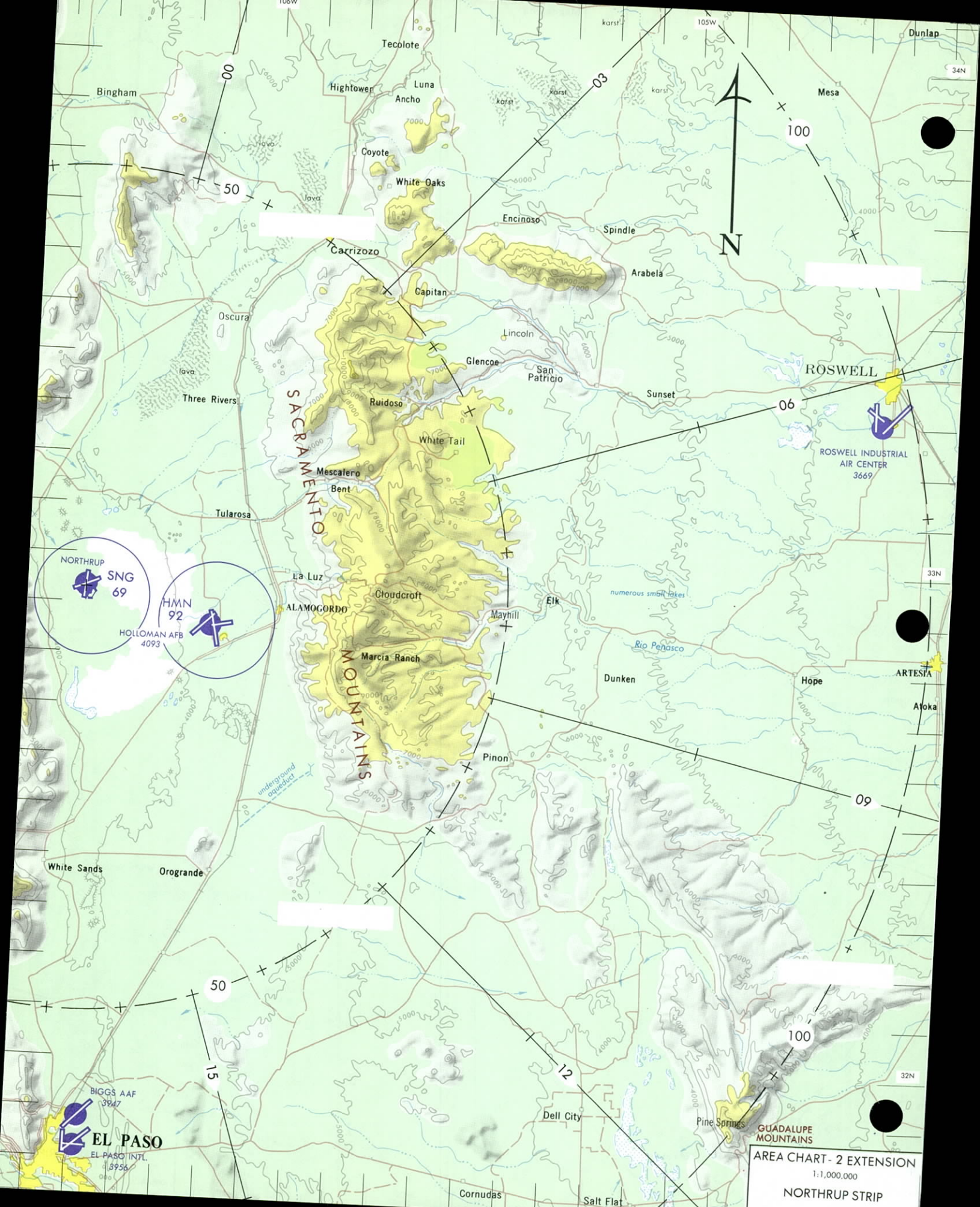
ED. 4-1/82





NORTHROP SNG 69
HMM 92
HOLLOMAN AFB 4093

AREA CHART - 2
1:1,000,000
NORTHROP STRIP
DMAAC ED. 3-7/81



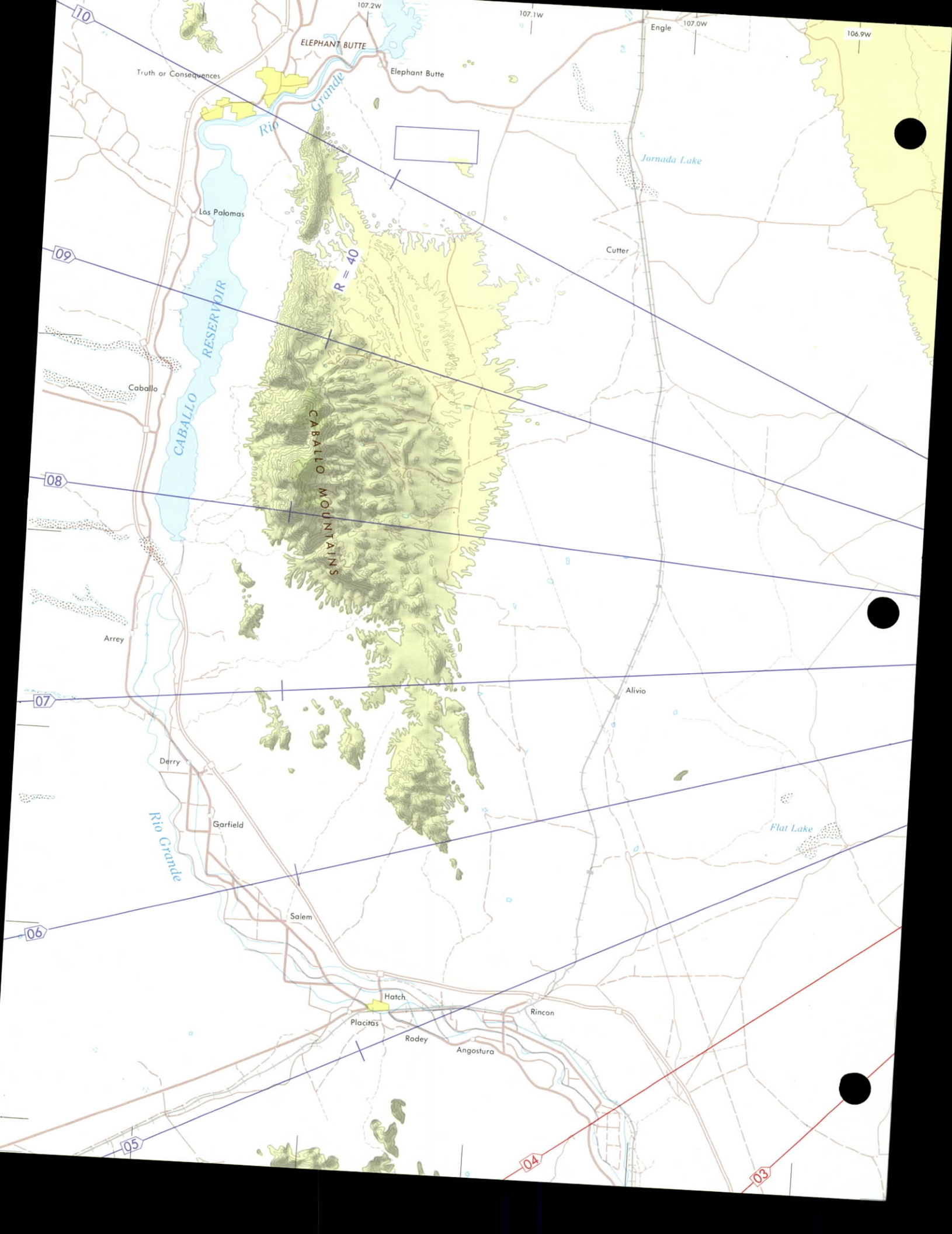
NORTHROP SNG 69

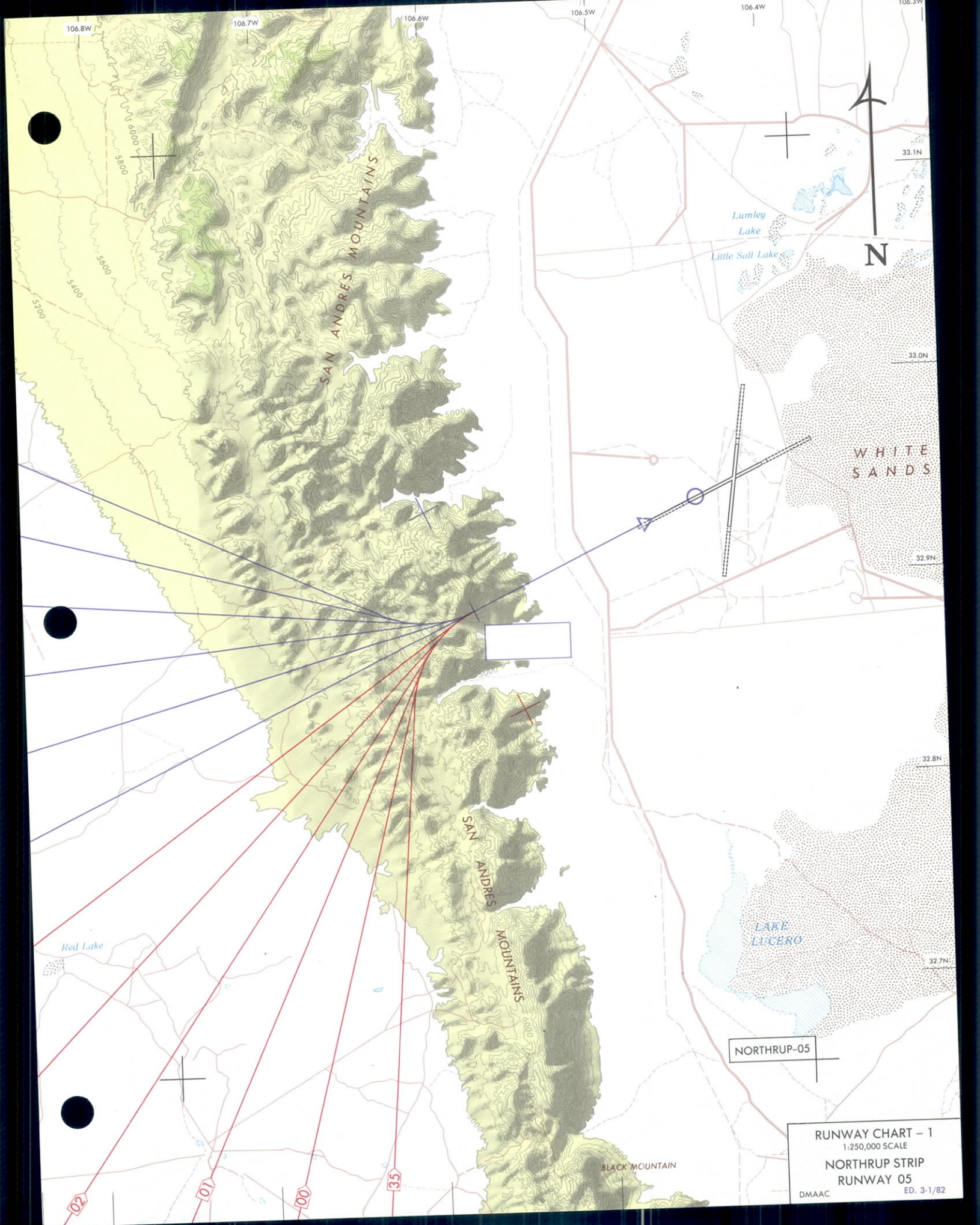
HMN 92

HOLLOMAN AFB 4093

AREA CHART - 2 EXTENSION
1:1,000,000
NORTHROP STRIP
DMAAC ED. 3-7/81

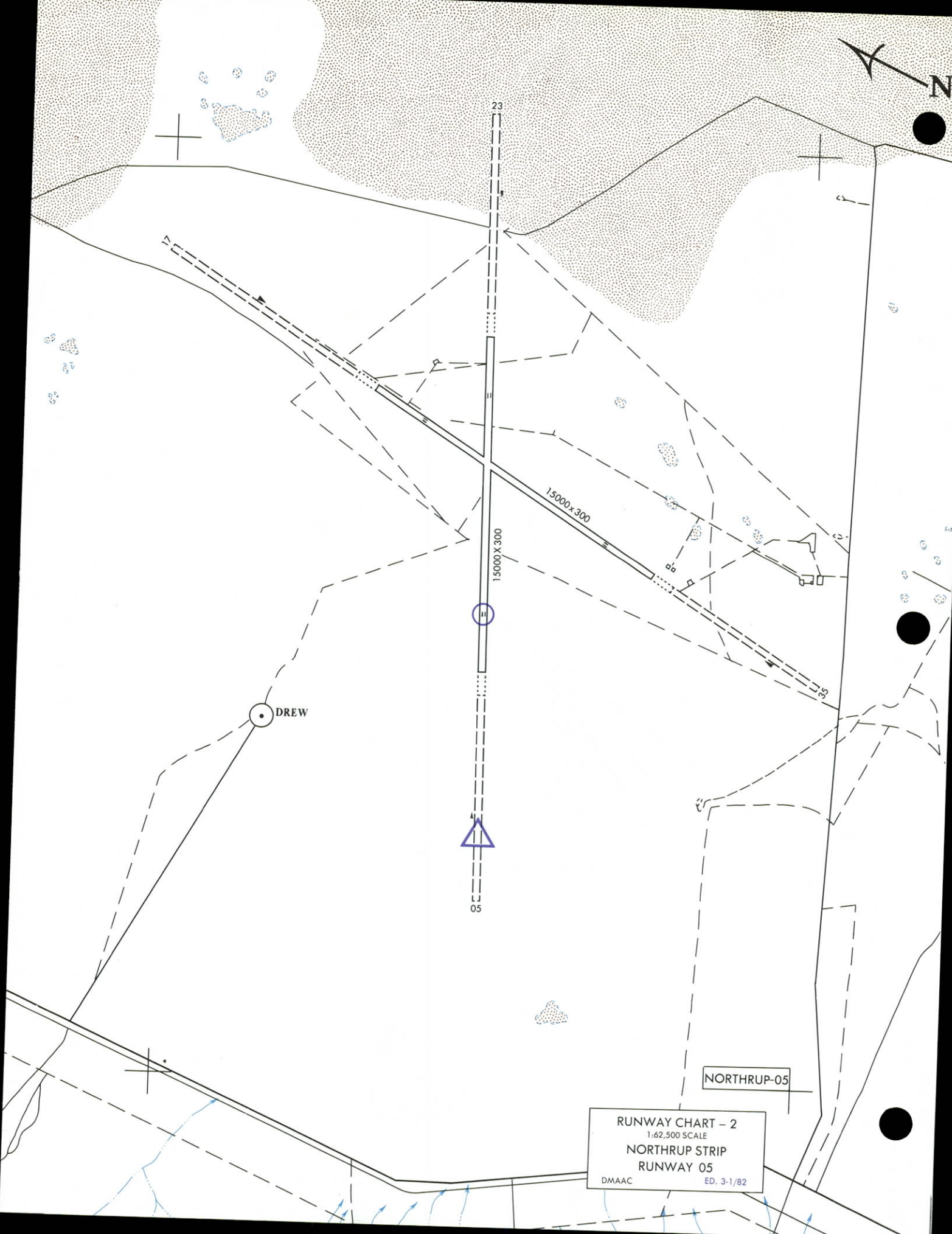
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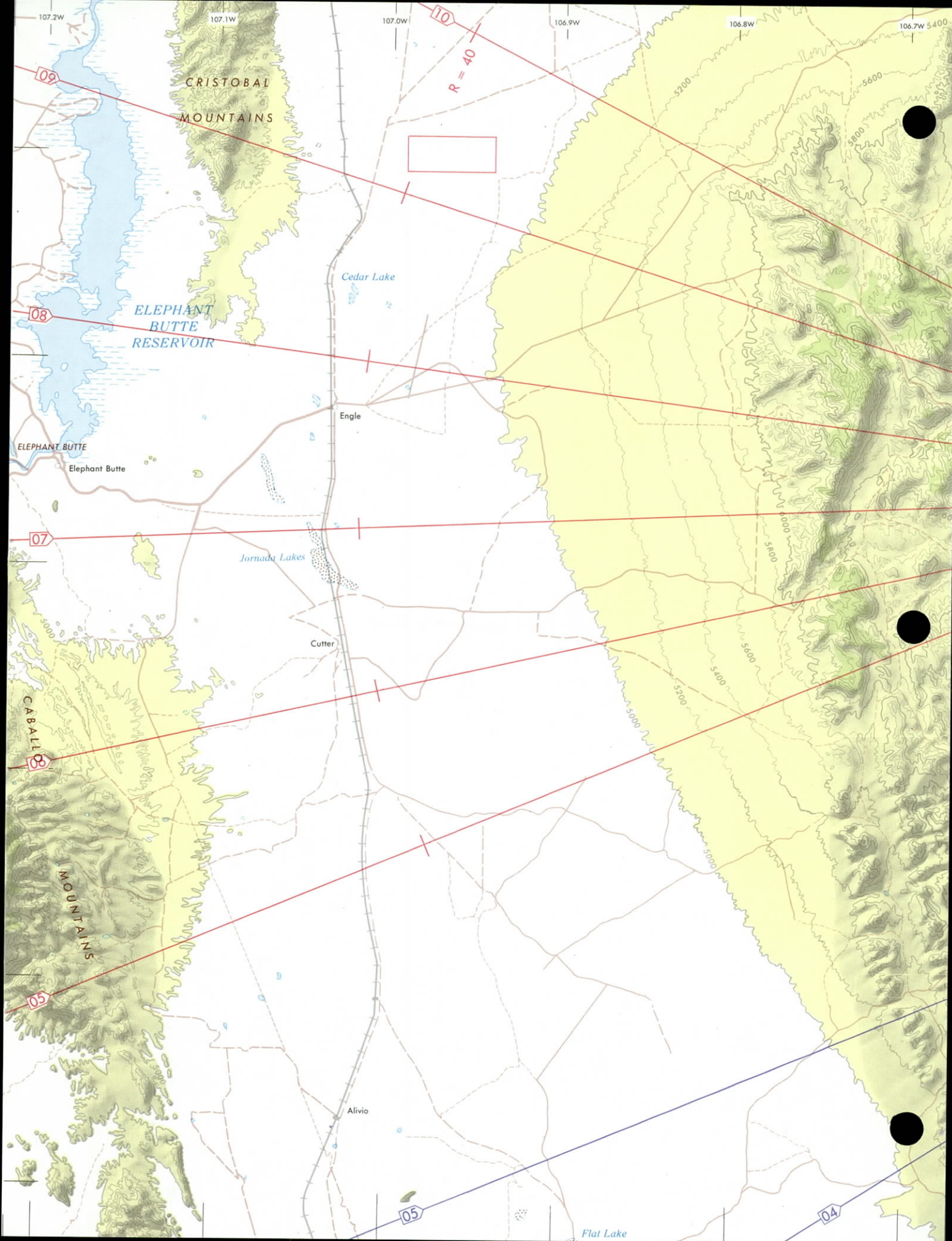
RUNWAY CHART - 1
1:250,000 SCALE
NORTHRUP STRIP
RUNWAY 05

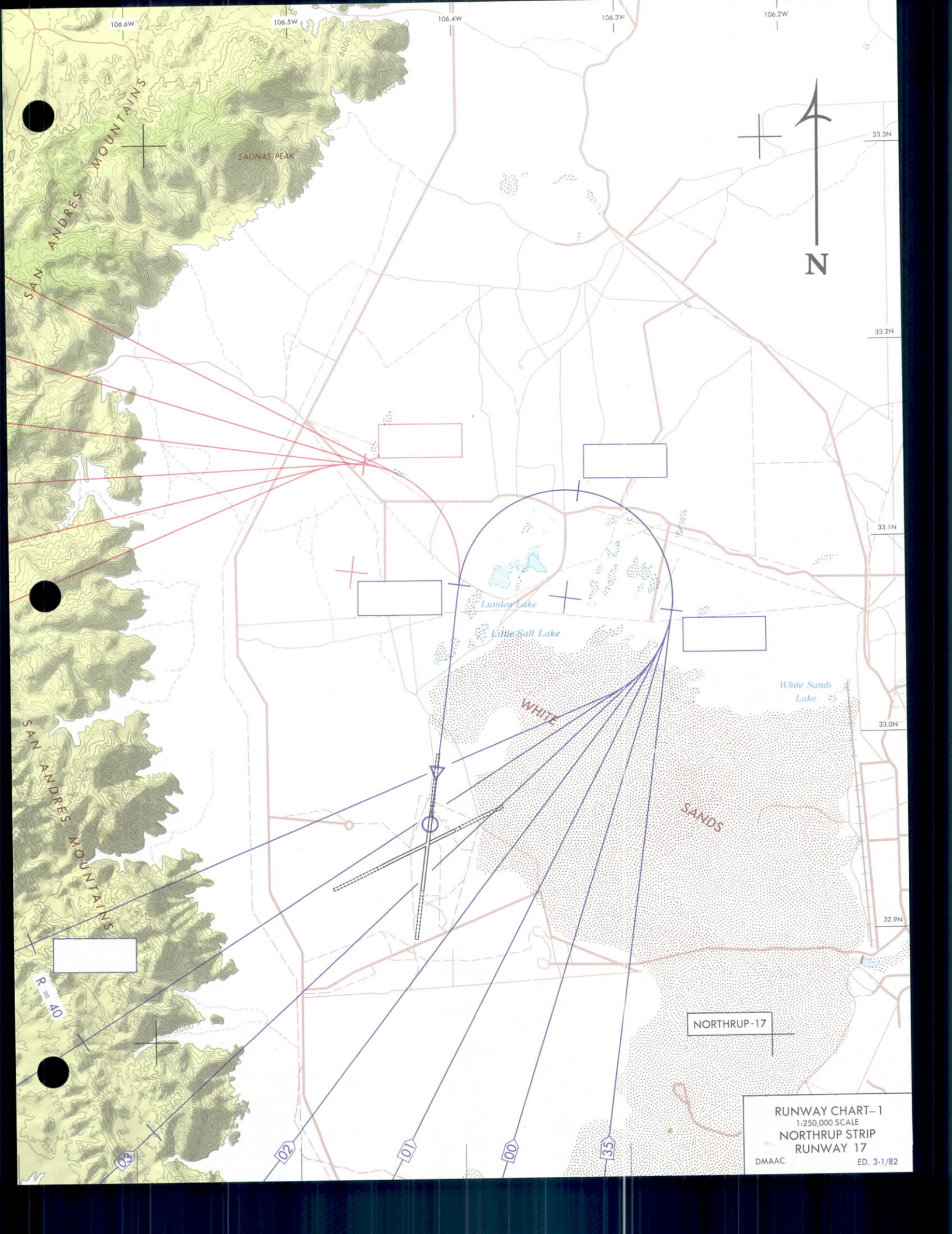
DMAAC ED. 3-1/82



RUNWAY CHART - 2
1:62,500 SCALE
NORTHROP STRIP
RUNWAY 05
DMAAC ED. 3-1/82

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106.6W 106.5W 106.4W 106.3W 106.2W

33.3N

33.2N

33.1N

33.0N

32.9N



SALINAS PEAK

SAN ANDRES MOUNTAINS

SAN ANDRES MOUNTAINS

Lumley Lake

Little Salt Lake

White Sands Lake

WHITE

SANDS

NORTHROP-17

R=40

03

02

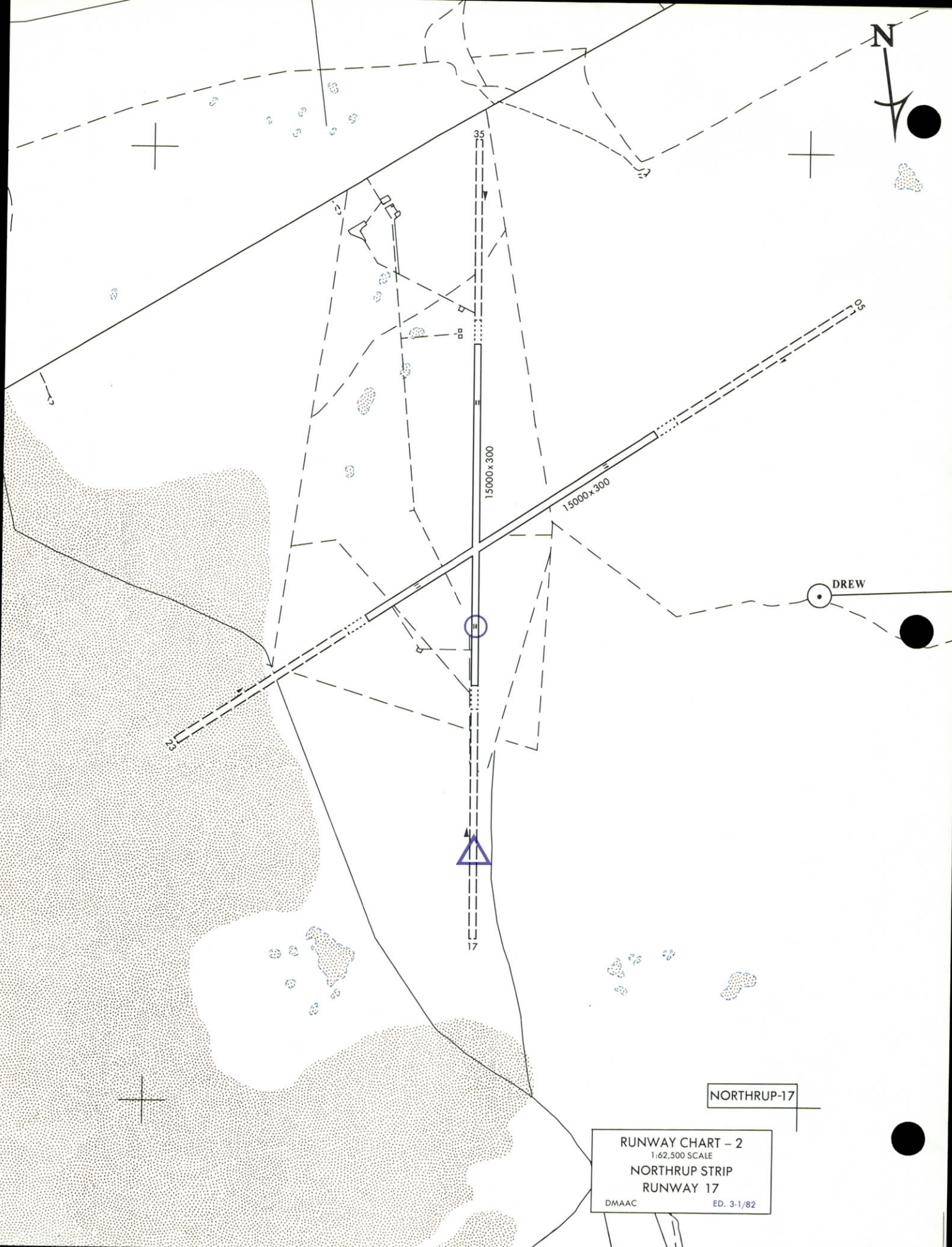
01

00

35

RUNWAY CHART-1
1:250,000 SCALE
NORTHROP STRIP
RUNWAY 17
DMAAC ED. 3-1/82

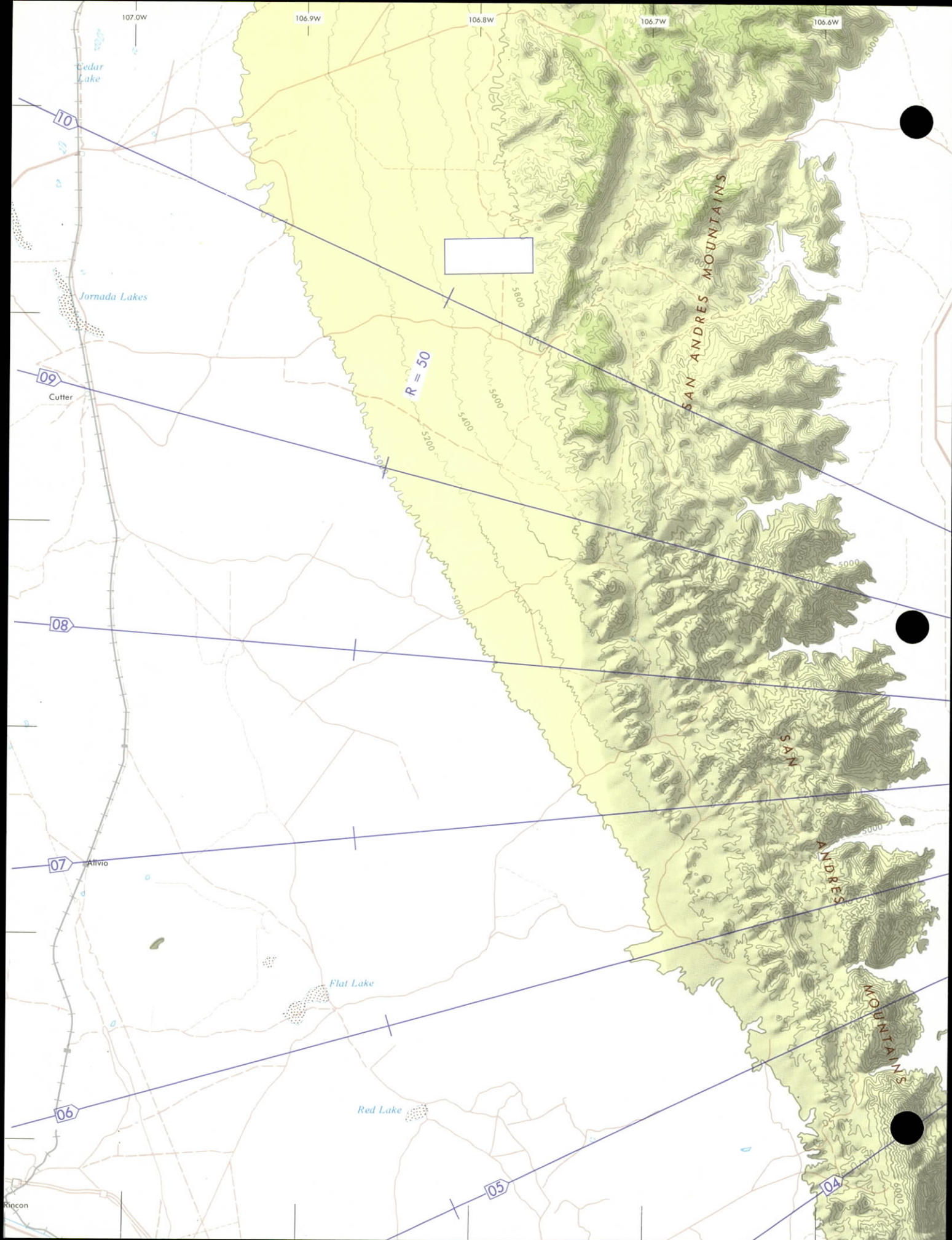
N

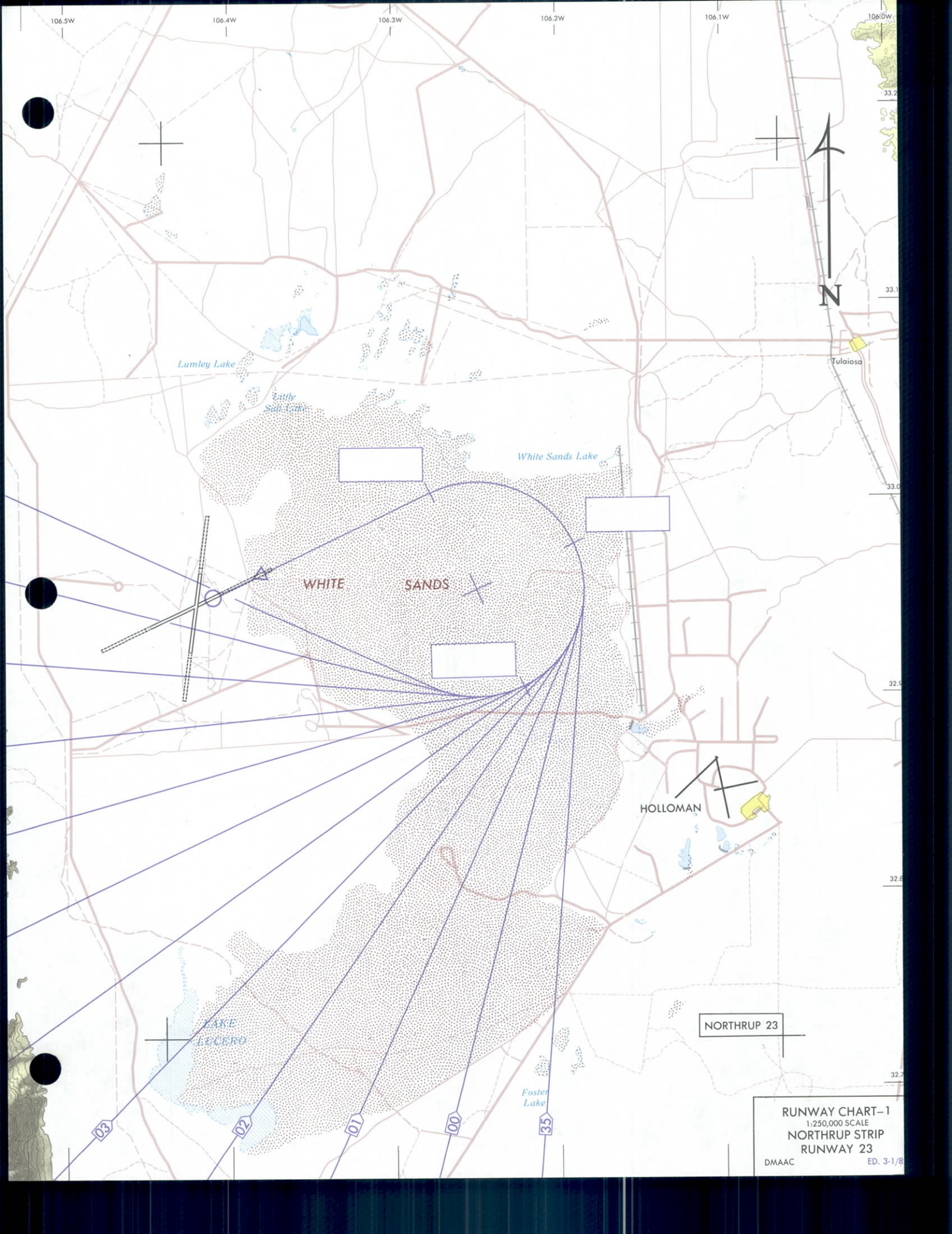


NORTHRUP-17

RUNWAY CHART - 2
1:62,500 SCALE
NORTHRUP STRIP
RUNWAY 17
DMAAC ED. 3-1/82

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Lumley Lake

Little Salt Lake

White Sands Lake

WHITE SANDS

HOLLOMAN

LAKE LECERO

Foster Lake

NORTHTRUP 23

RUNWAY CHART-1
1:250,000 SCALE
NORTHTRUP STRIP
RUNWAY 23
DMAAC ED. 3-1/8



03

02

01

00

35

106.0W

106.5W

106.4W

106.3W

106.2W

106.1W

33.2

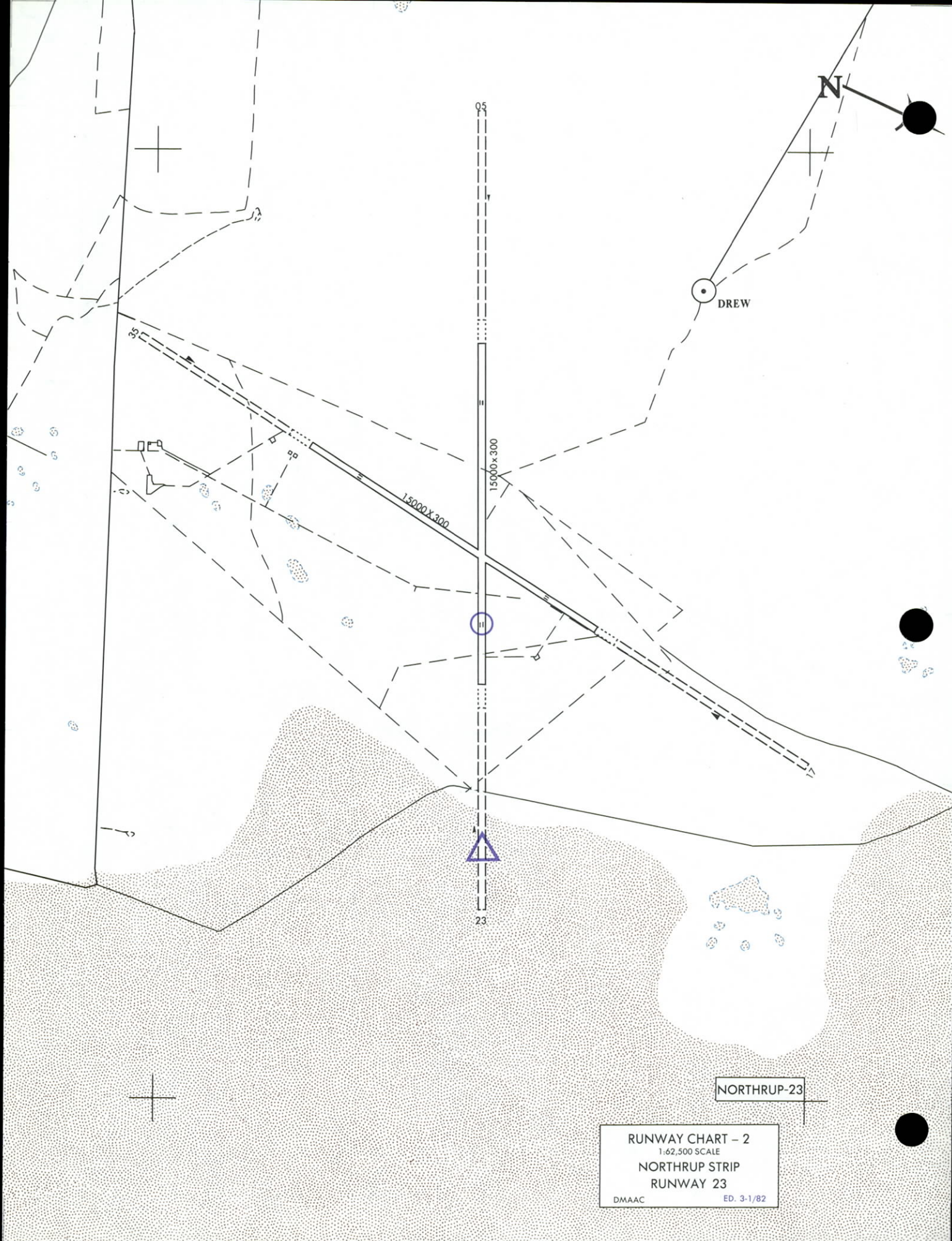
33.1

33.0

32.9

32.8

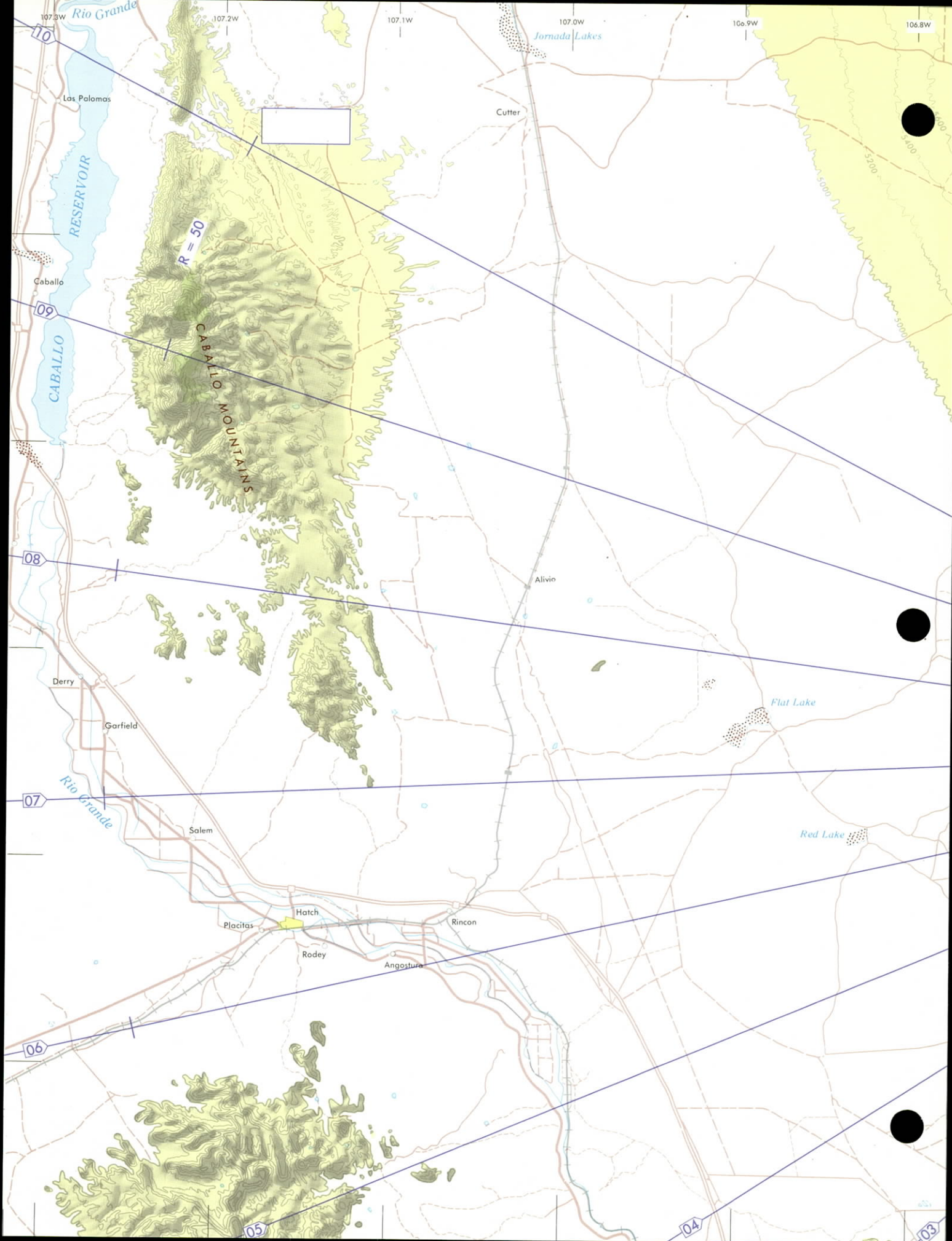
32.7

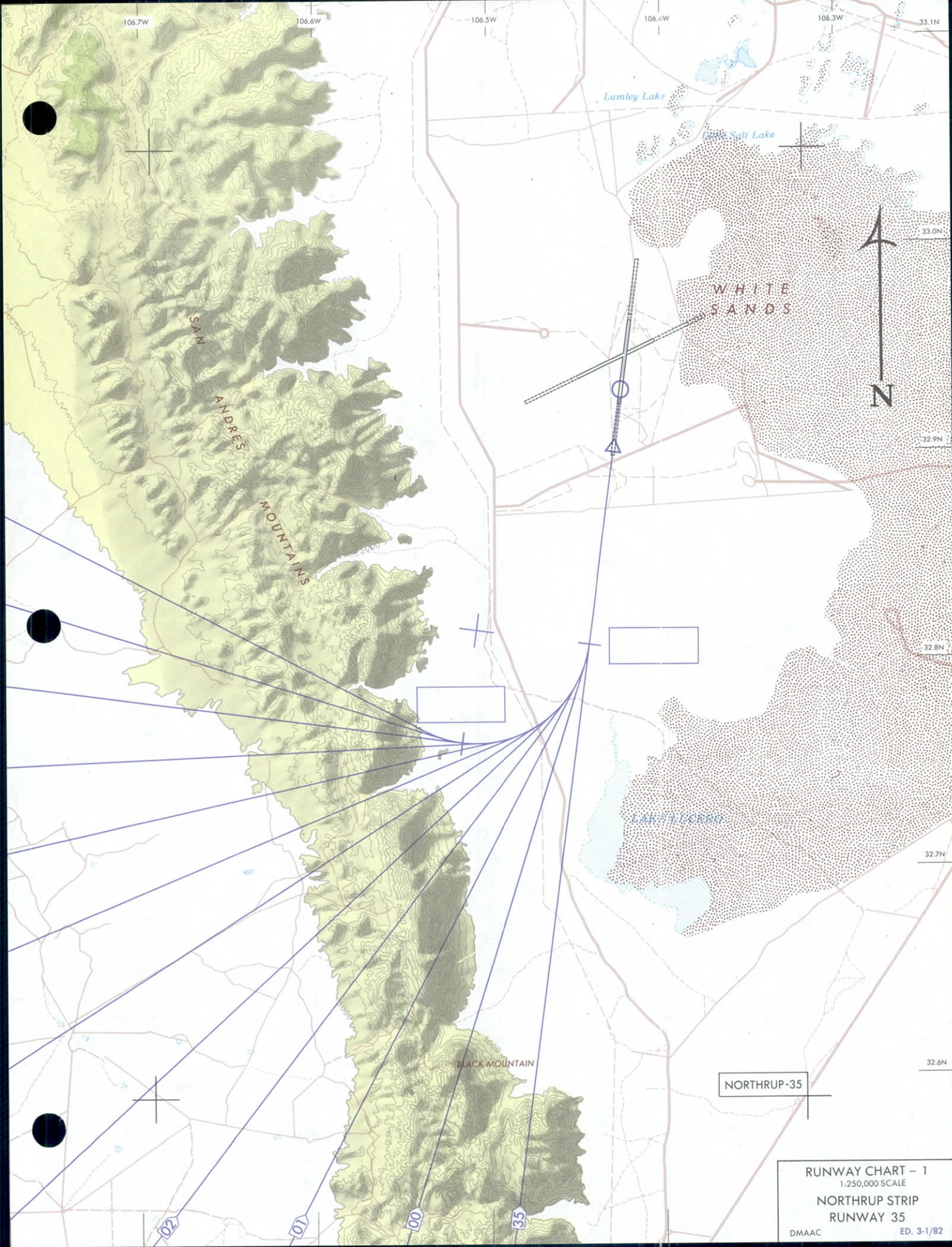


NORTHROP-23

RUNWAY CHART - 2
1:62,500 SCALE
NORTHROP STRIP
RUNWAY 23
DMAAC ED. 3-1/82

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106.7W

106.6W

106.5W

106.4W

106.3W

33.1N

Lumley Lake

Little Salt Lake

SAN

ANDRES

MOUNTAINS

WHITE SANDS

N

33.0N

32.9N

32.8N

LAKE EL CERRO

32.7N

BLACK MOUNTAIN

32.6N

NORTHROP-35

02

10

00

35

RUNWAY CHART - 1

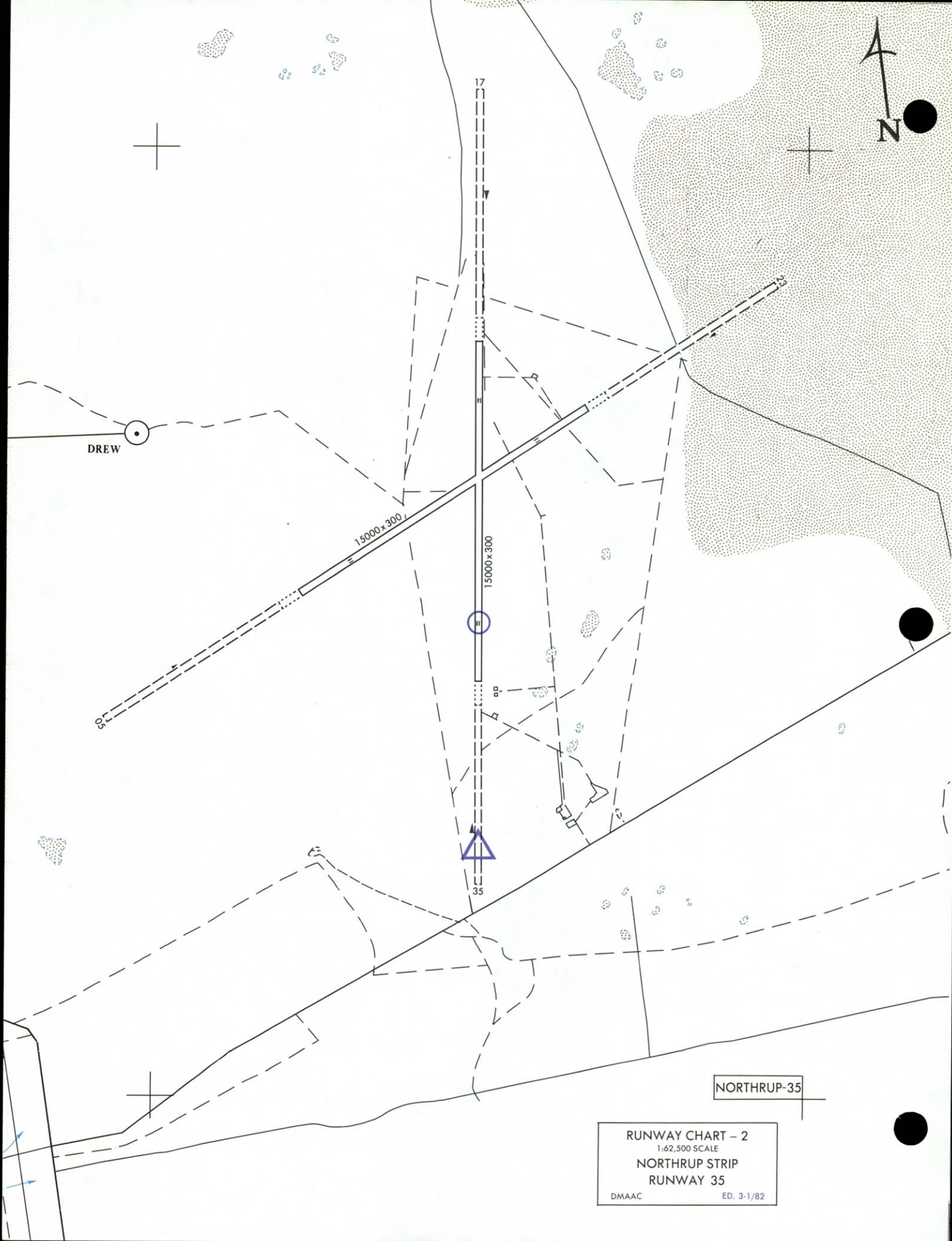
1:250,000 SCALE

NORTHROP STRIP

RUNWAY 35

DMAAC

ED. 3-1/82



DREW

15000 x 300

15000 x 300

17

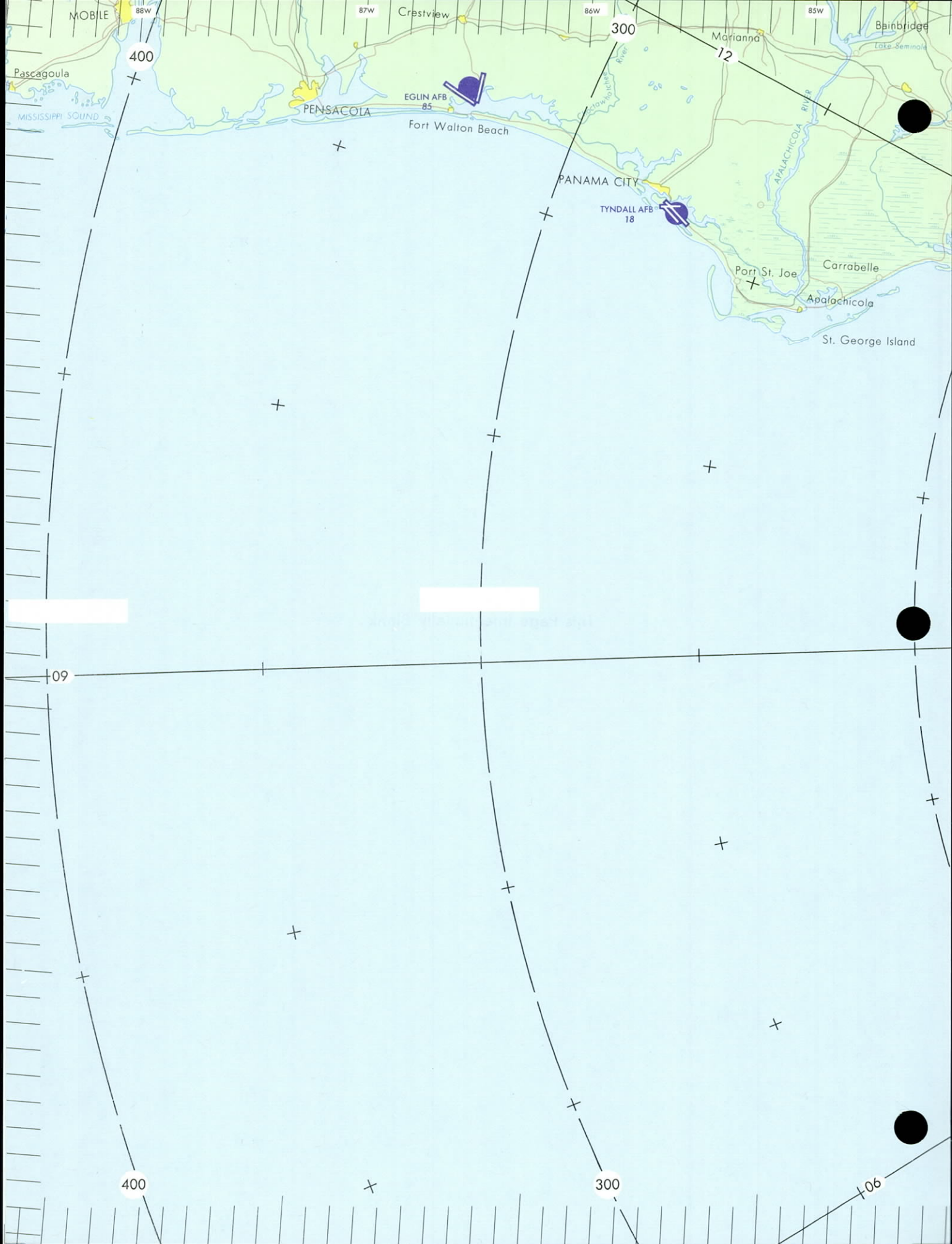
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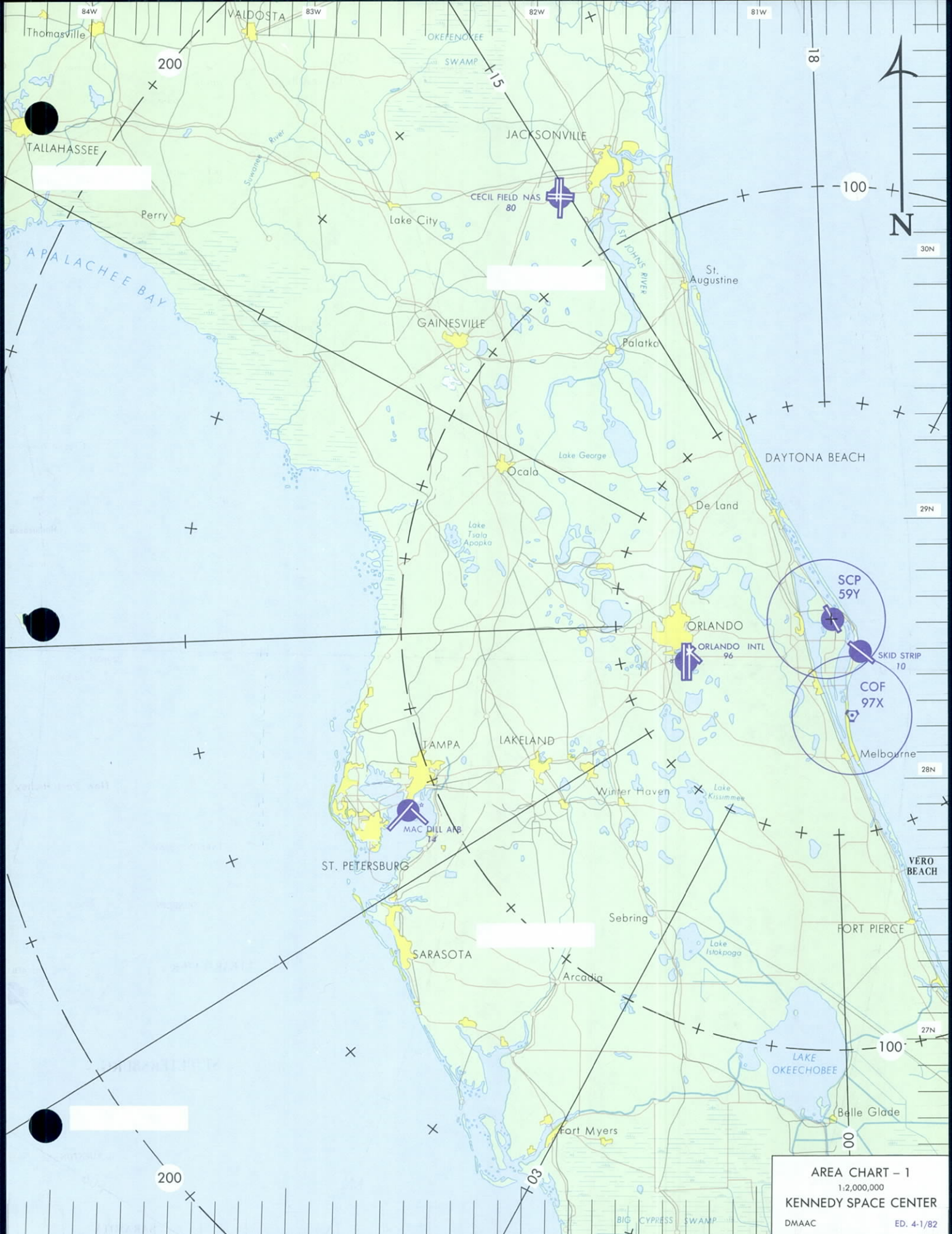
NORTHROP-35

RUNWAY CHART - 2
1:62,500 SCALE
NORTHROP STRIP
RUNWAY 35
DMAAC ED. 3-1/82

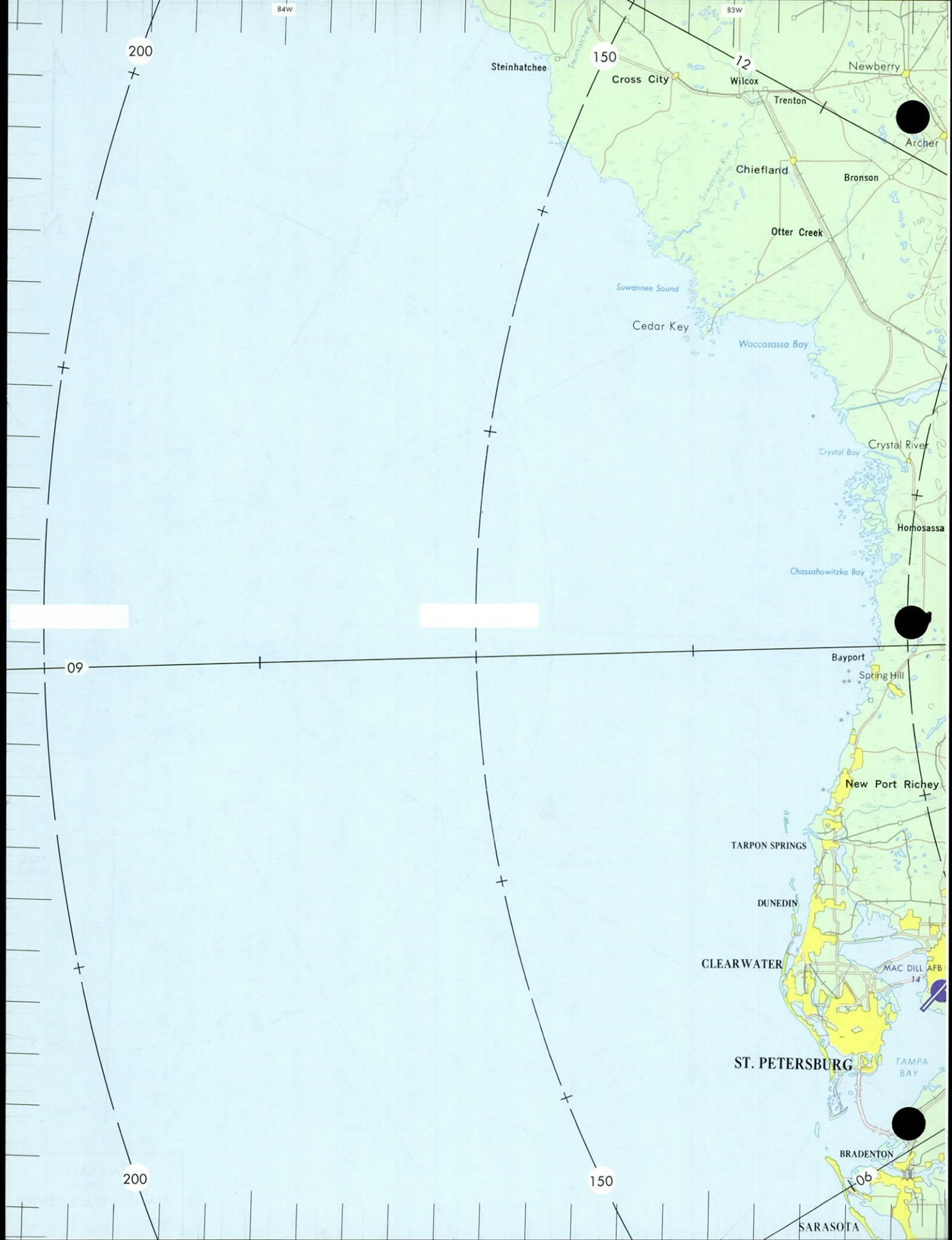
Kennedy Space
Center
Florida

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AREA CHART - 1
1:2,000,000
KENNEDY SPACE CENTER
DMAAC ED. 4-1/82



200

84W

150

72

Wilcox

Newberry

Steinhathee

Cross City

Trenton

Archer

Bronson

Chiefland

Otter Creek

Suwannee Sound

Cedar Key

Waccasassa Bay

Crystal Bay

Crystal River

Homosassa

Chassahowitzka Bay

09

Bayport

Spring Hill

New Port Richey

TARPON SPRINGS

DUNEDIN

CLEARWATER

MAC DILL AFB

ST. PETERSBURG

TAMPA BAY

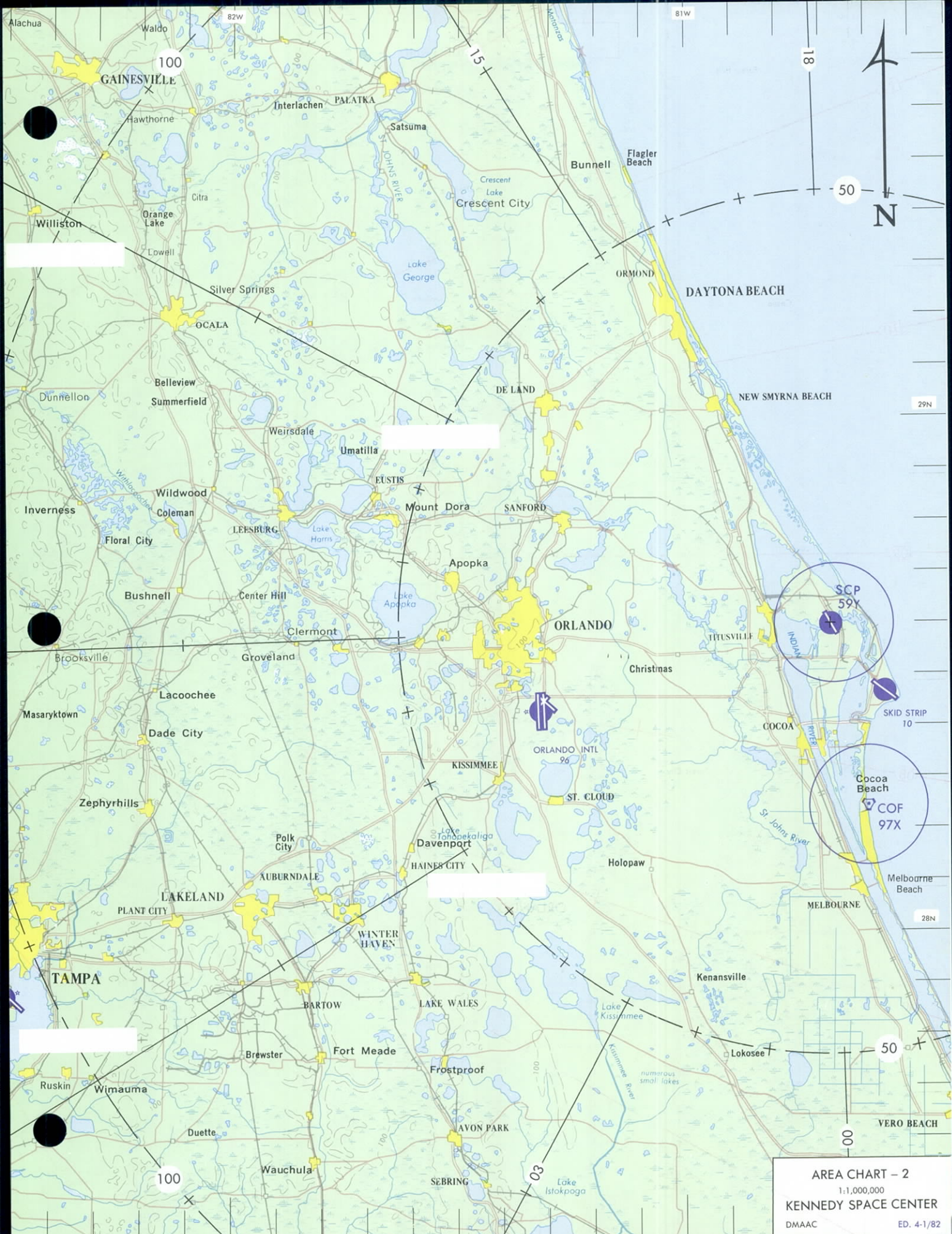
BRADENTON

200

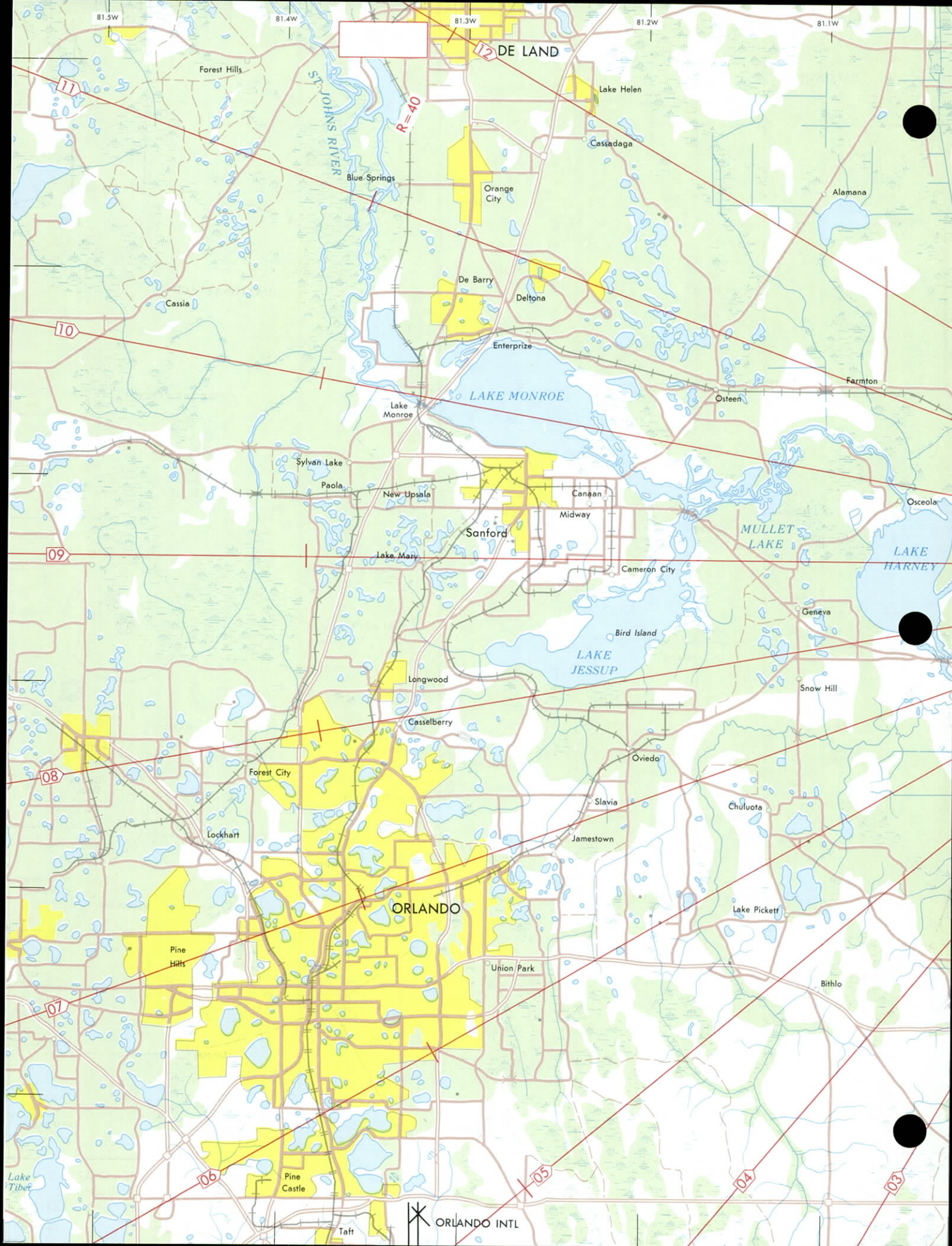
150

06

SARASOTA



AREA CHART - 2
1:1,000,000
KENNEDY SPACE CENTER
DMAAC ED. 4-1/82



[White Box]

DE LAND

ORLANDO

ORLANDO INTL





29.0N

28.9N

28.8N

28.7N

28.5N

28.5N

RUNWAY CHART-1
1:250,000 SCALE
KENNEDY SPACE CENTER
RUNWAY 15
DMAAC ED. 4-1/82

KSC-15

R=40

NEW SMYRNA BEACH

TITUSVILLE

MERRITT

BANANA

INDIAN RIVER

MOSQUITO LAGOON

CANAVERAL PENINSULA SKID STRIP

35

3A

Courtenay

Audubon

Delespine

Orono

Titusville Beach

False Cape

Wilson

Black Point

Mims

Southmers

Turnbull

Scottsmoor

Shiloh

Oak Hill

Ariel

Orange Island

Shipyard Island

Hucomer

Edgewater

Coronado Beach

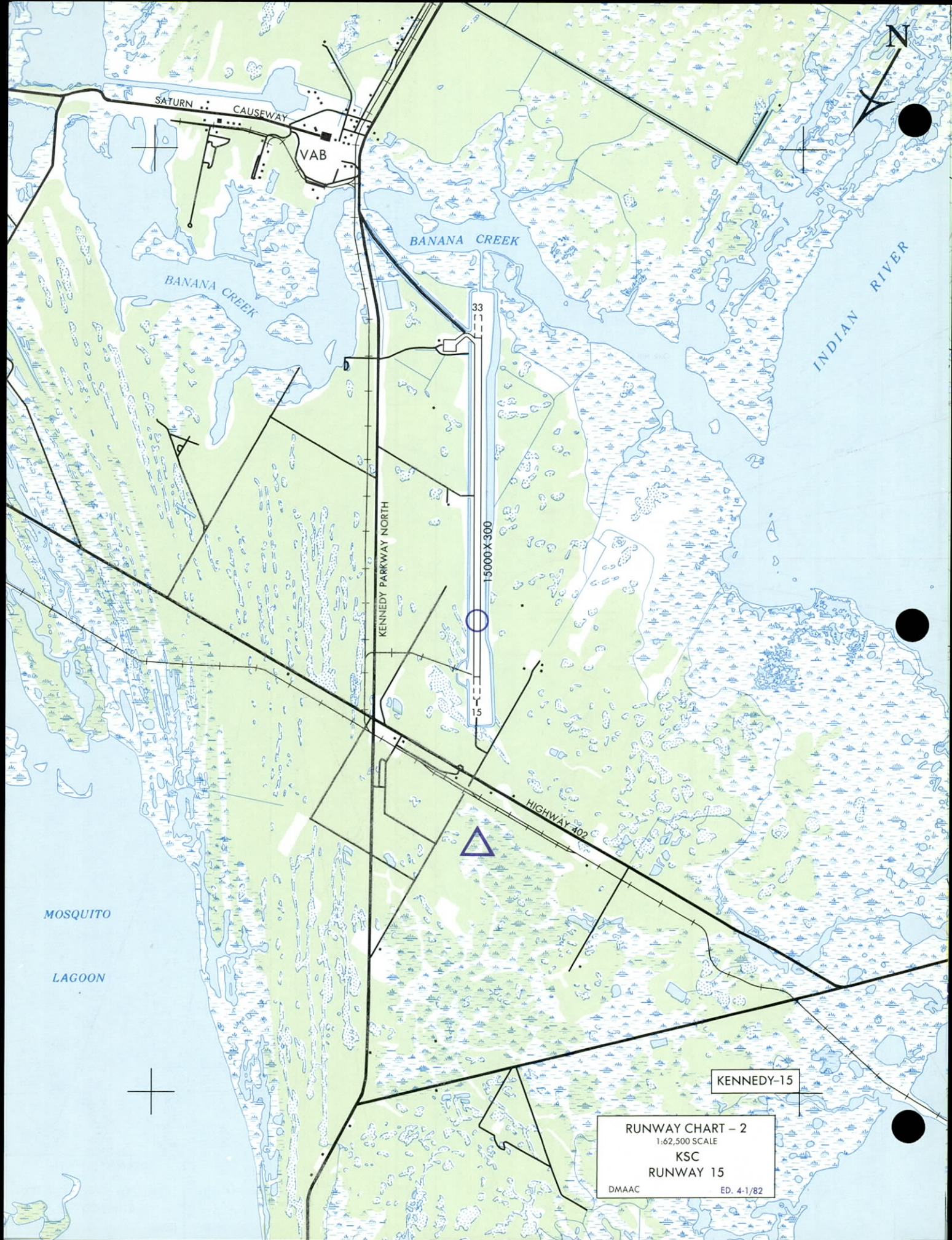
80.8W

80.7W

80.6W

81.0W

80.9W



SATURN CAUSEWAY

VAB

BANANA CREEK

BANANA CREEK

INDIAN RIVER

KENNEDY PARKWAY NORTH

33

15000X300

15

HIGHWAY 402

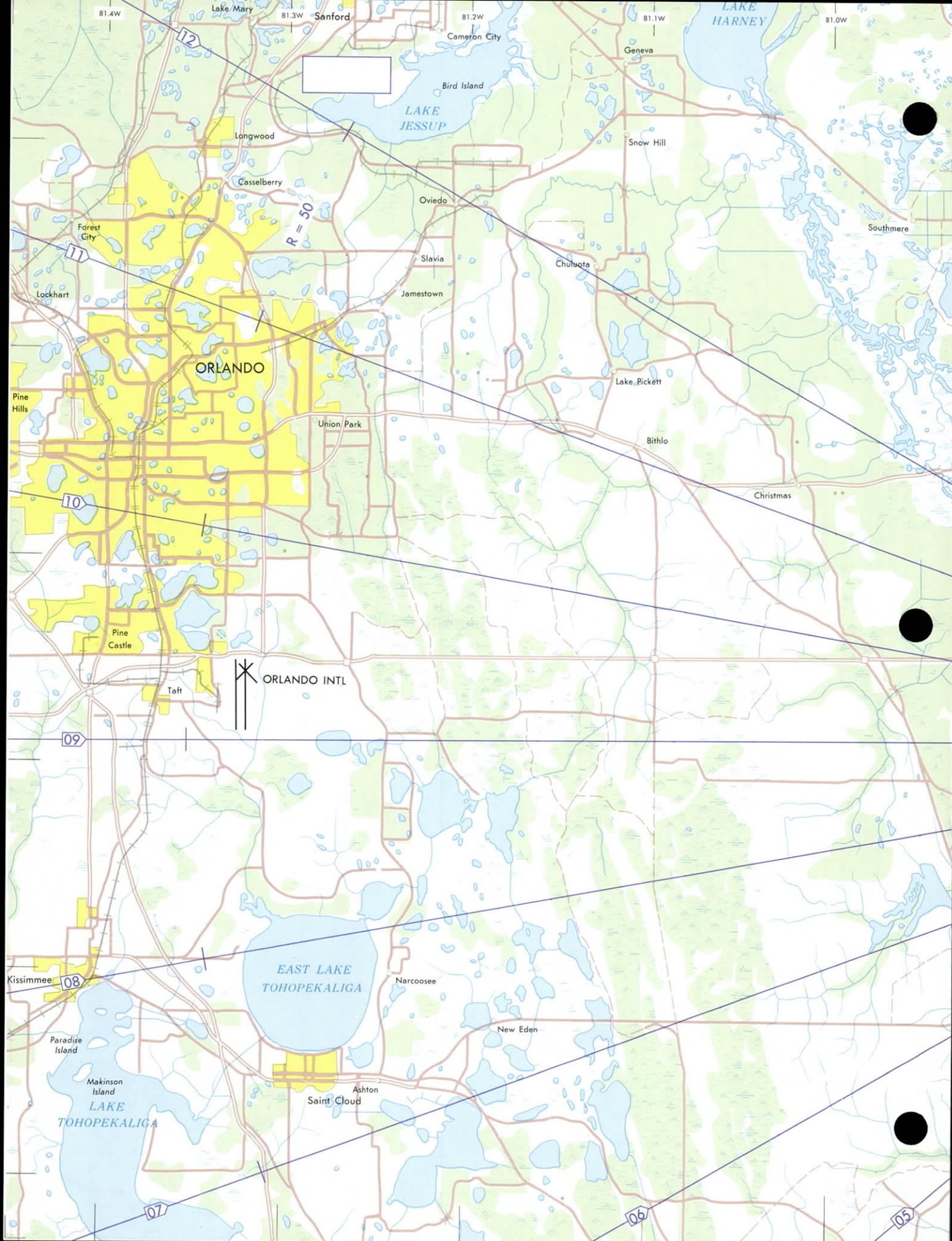
MOSQUITO

LAGOON

KENNEDY-15

RUNWAY CHART - 2
1:62,500 SCALE
KSC
RUNWAY 15
DMAAC ED. 4-1/82

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RUNWAY CHART-1
 1:250,000 SCALE
KENNEDY SPACE CENTER
RUNWAY 33
 DMAAC ED. 3-1/82

MOSQUITO LAGOON



HIGHWAY 402

KENNEDY PARKWAY-NORTH

INDIAN RIVER

15000x300

33

BANANA CREEK

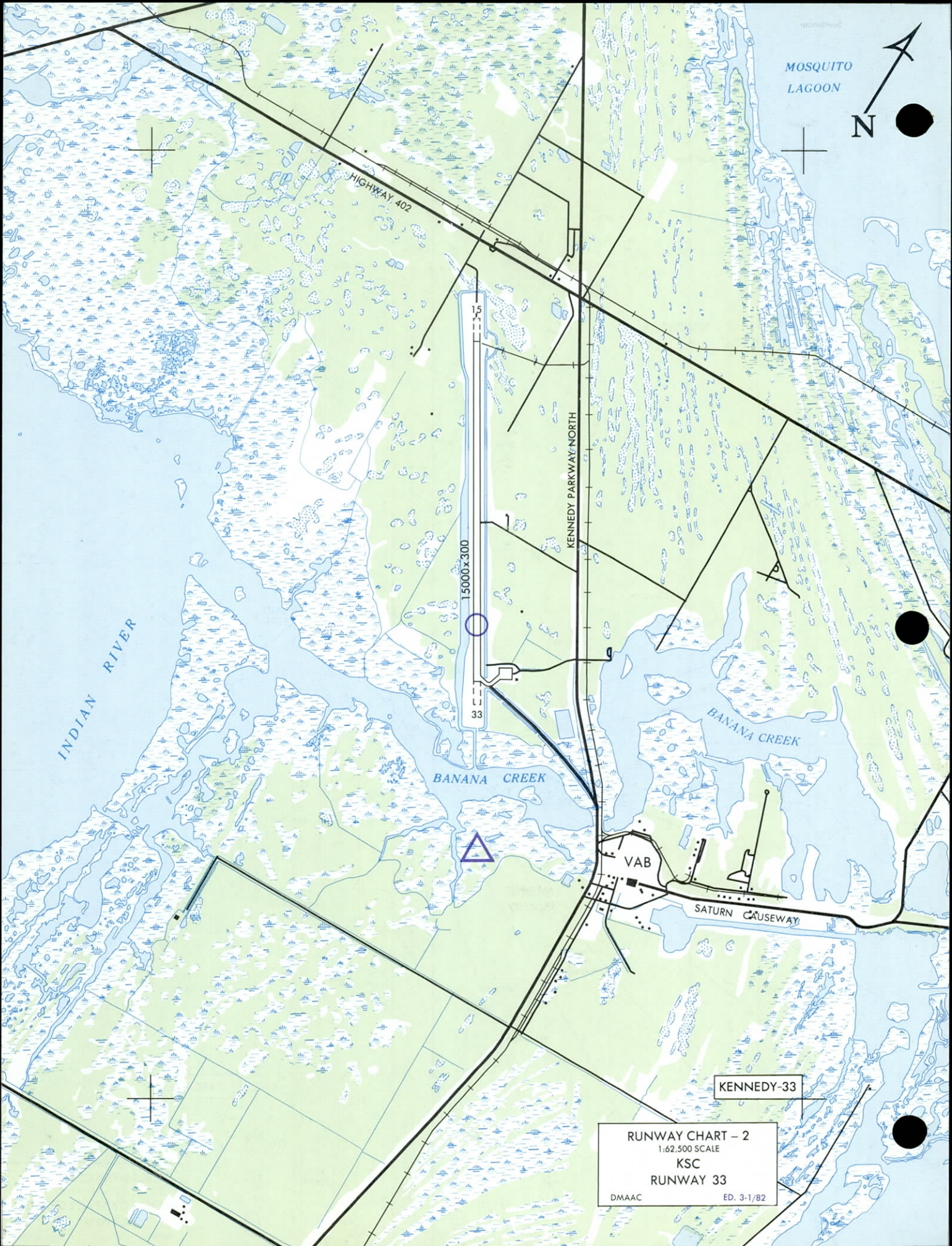
BANANA CREEK

VAB

SATURN CAUSEWAY

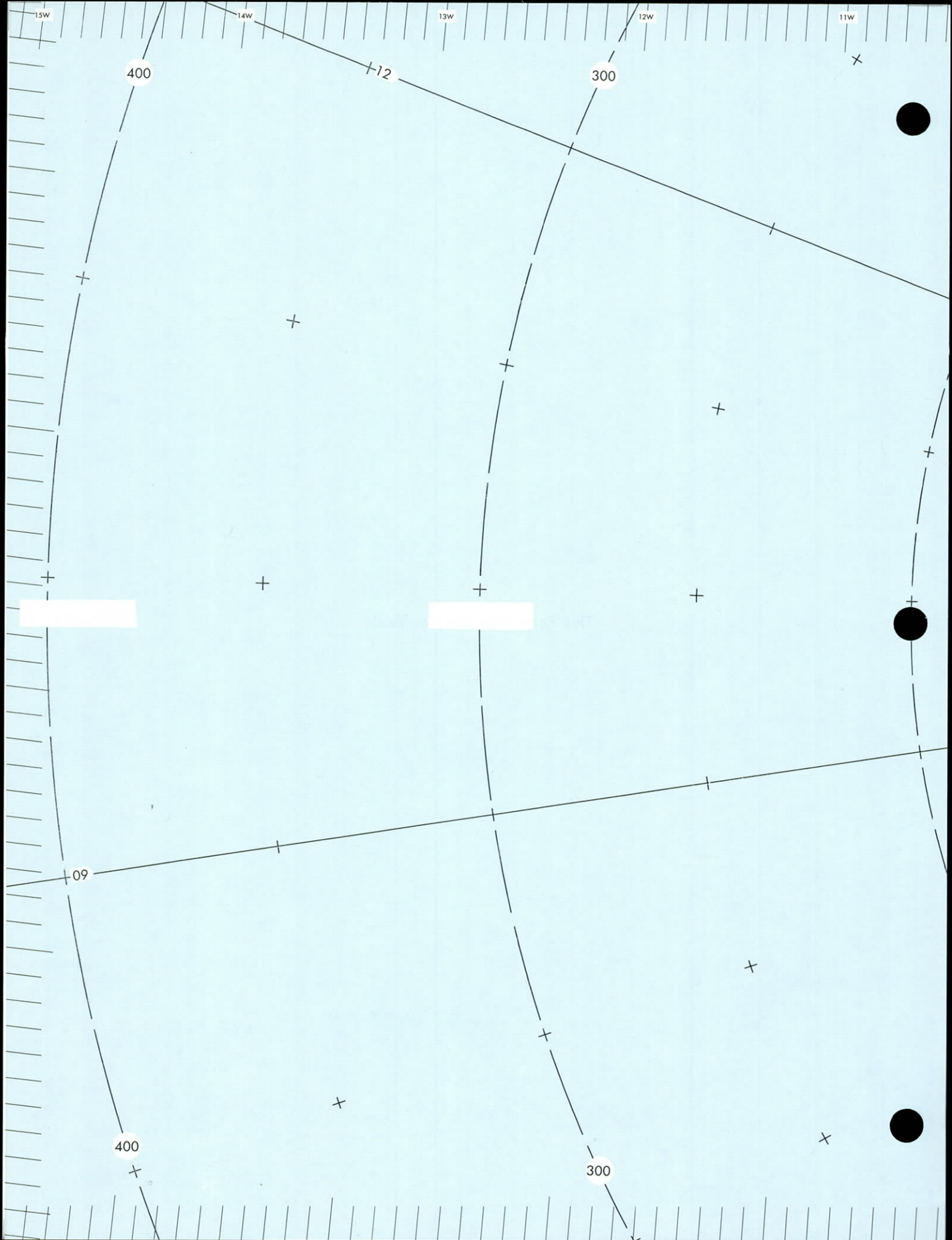
KENNEDY-33

RUNWAY CHART - 2
 1:62,500 SCALE
 KSC
 RUNWAY 33
 DMAAC ED. 3-1/82



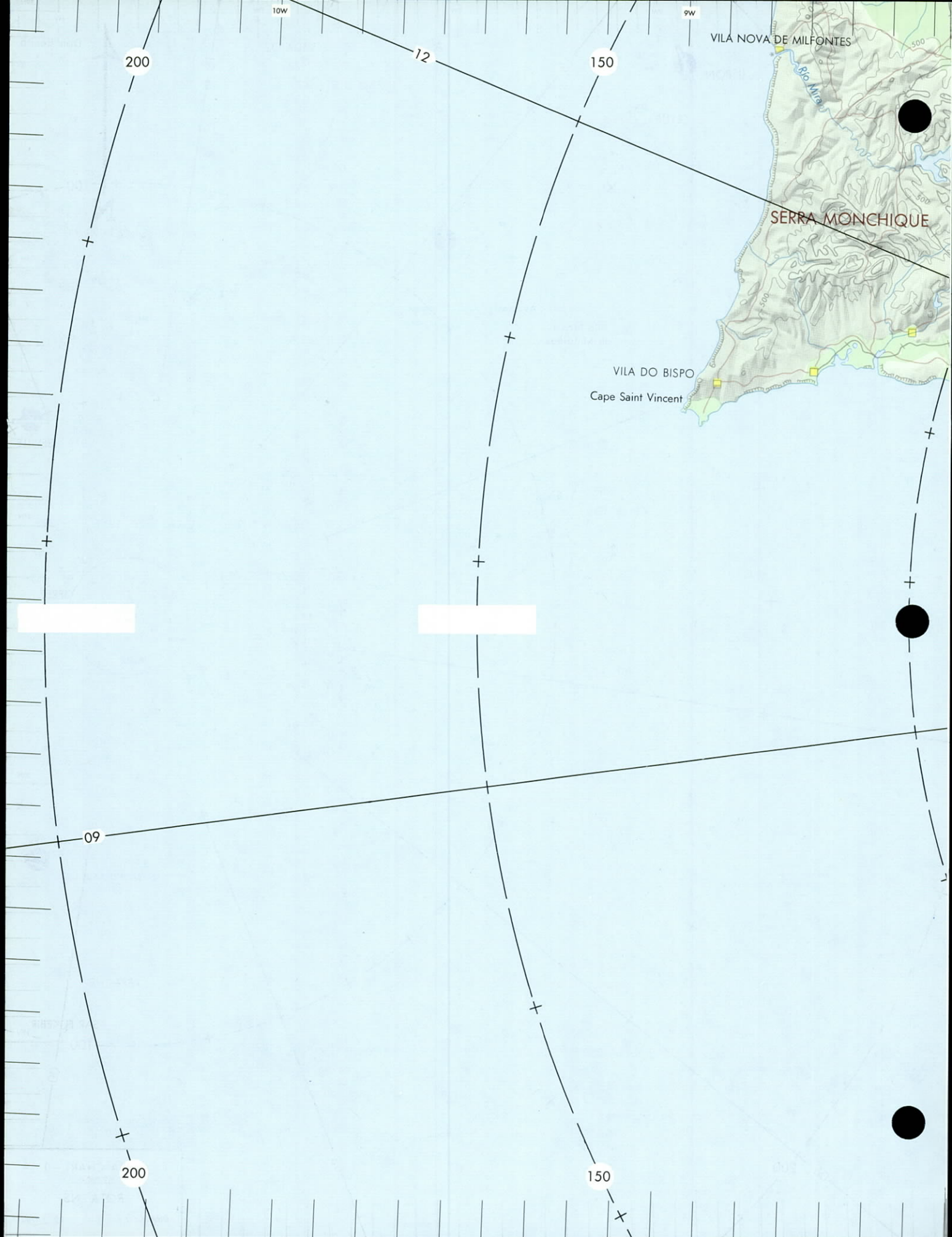
ROTA NS
Spain

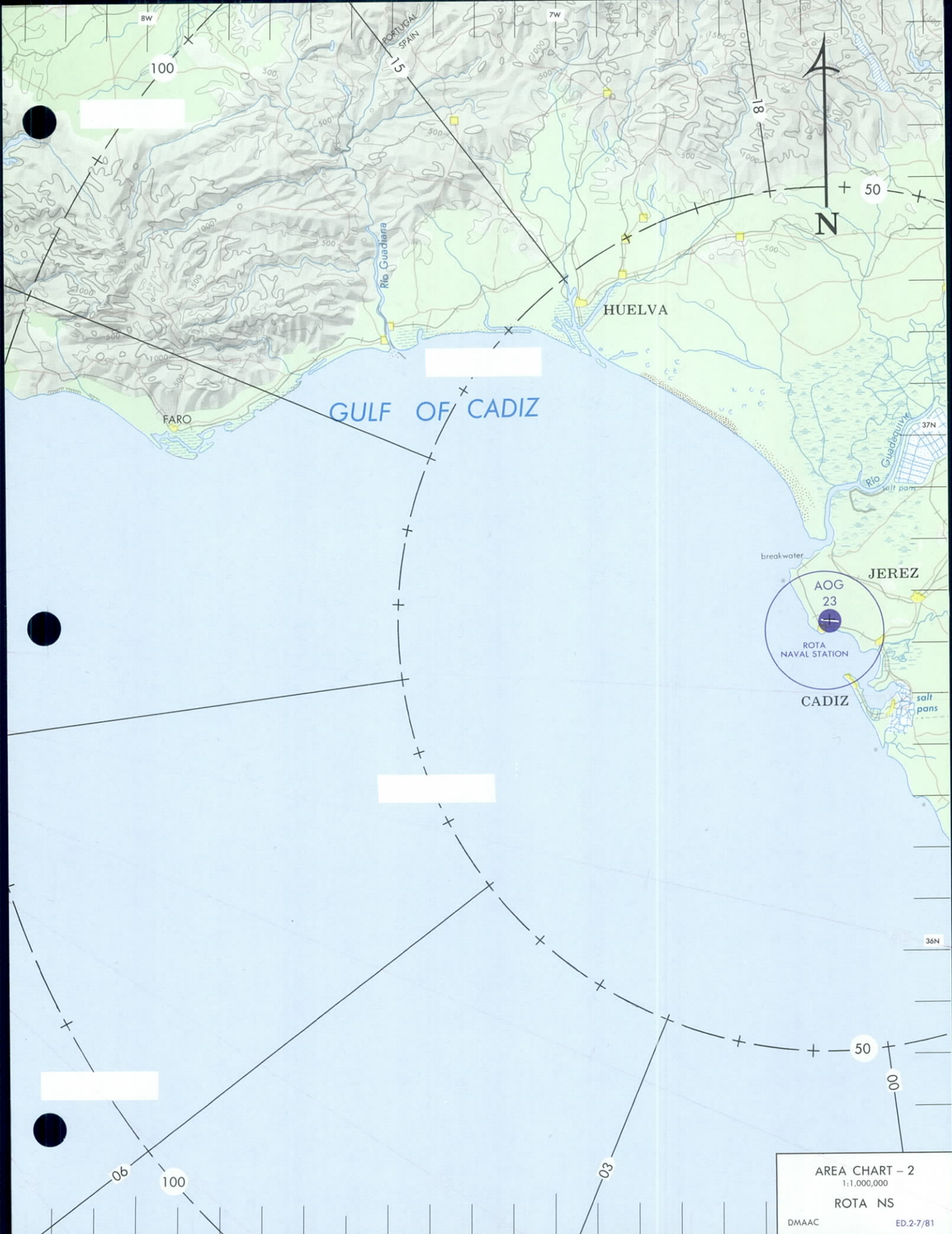
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AREA CHART - 1
1:2,000,000
ROTA NS
DMAAC ED. 3-1/82





GULF OF CADIZ

HUELVA

JEREZ

AOG 23

ROTA NAVAL STATION

CADIZ

AREA CHART - 2
1:1,000,000

ROTA NS

DMAAC

ED.2-7/81

7.3W

7.2W

7.1W

7.0W

6.9W

6.8W

12



R = 40

11

10

09

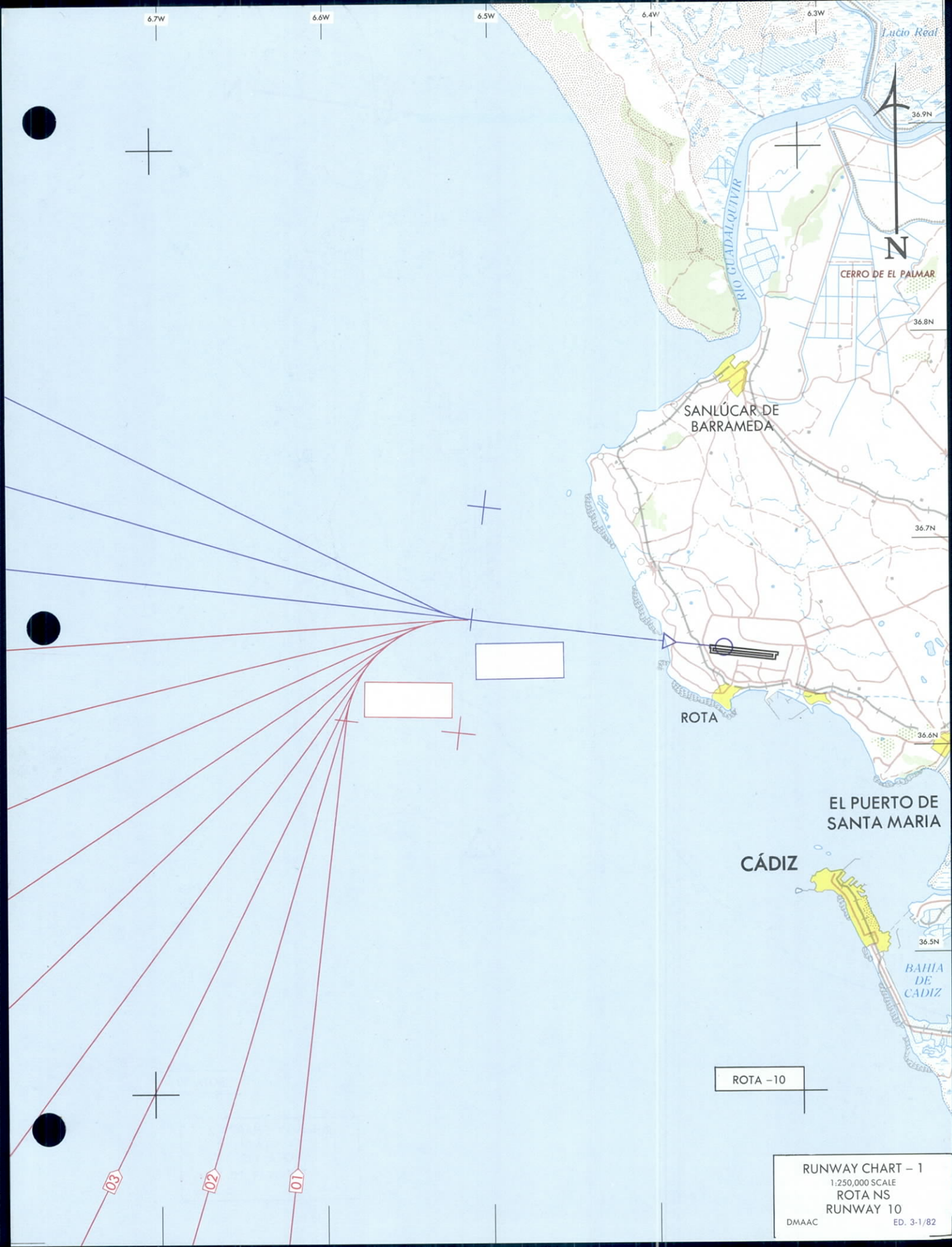
08

07

06

05

04



6.7W

6.6W

6.5W

6.4W

6.3W

Lucio Real

36.9N

CERRO DE EL PALMAR

36.8N

SANLÚCAR DE BARRAMEDA

36.7N

ROTA

36.6N

EL PUERTO DE SANTA MARIA

CÁDIZ

36.5N

BAHIA DE CADIZ

ROTA -10

RUNWAY CHART - 1
1:250,000 SCALE
ROTA NS
RUNWAY 10

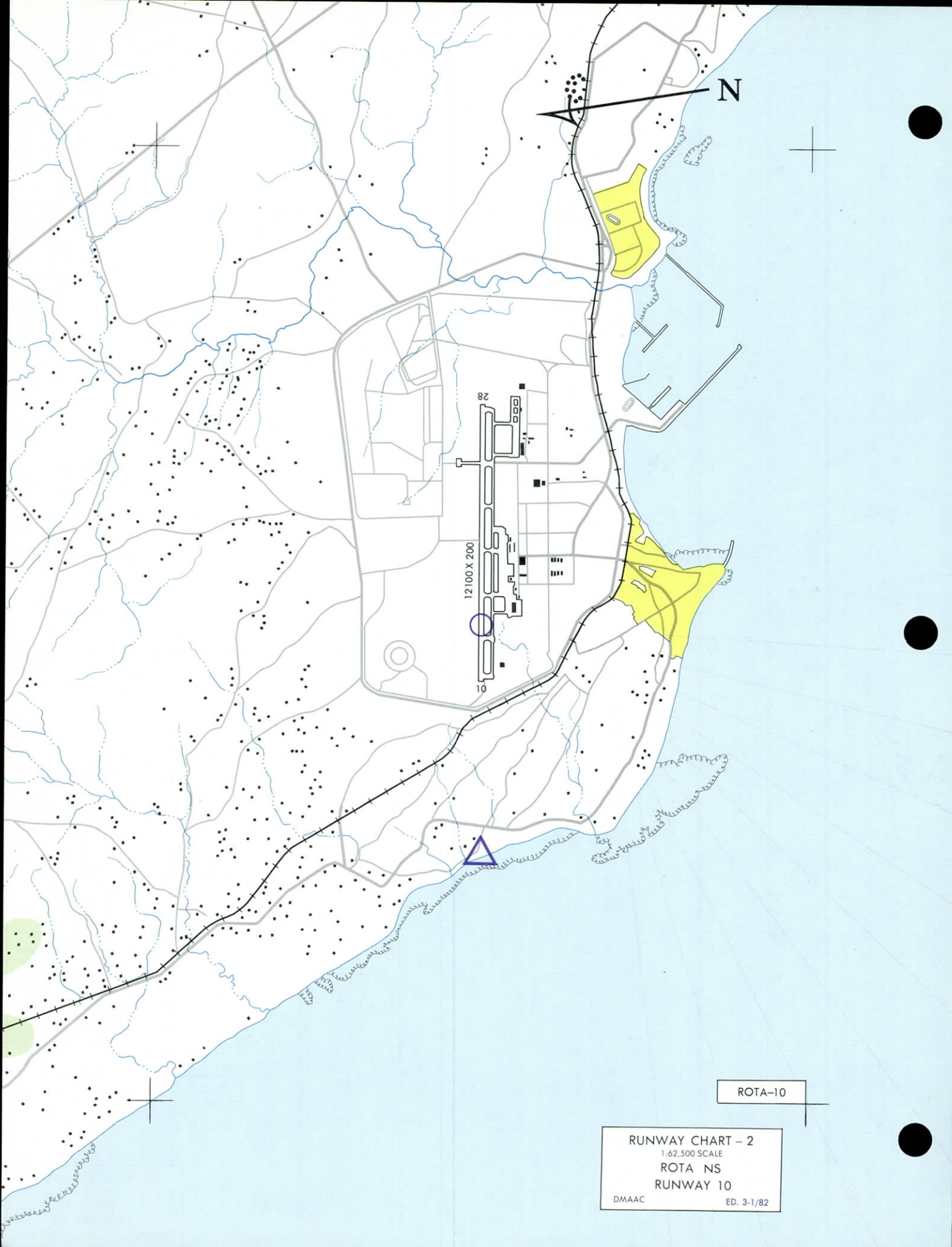
DMAAC

ED. 3-1/82

03

02

01



ROTA-10

RUNWAY CHART - 2
1:62,500 SCALE
ROTA NS
RUNWAY 10
DMAAC ED. 3-1/82

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7.0W

6.9W

6.8W

6.7W

6.6W

6.5W

12



R = 50

11

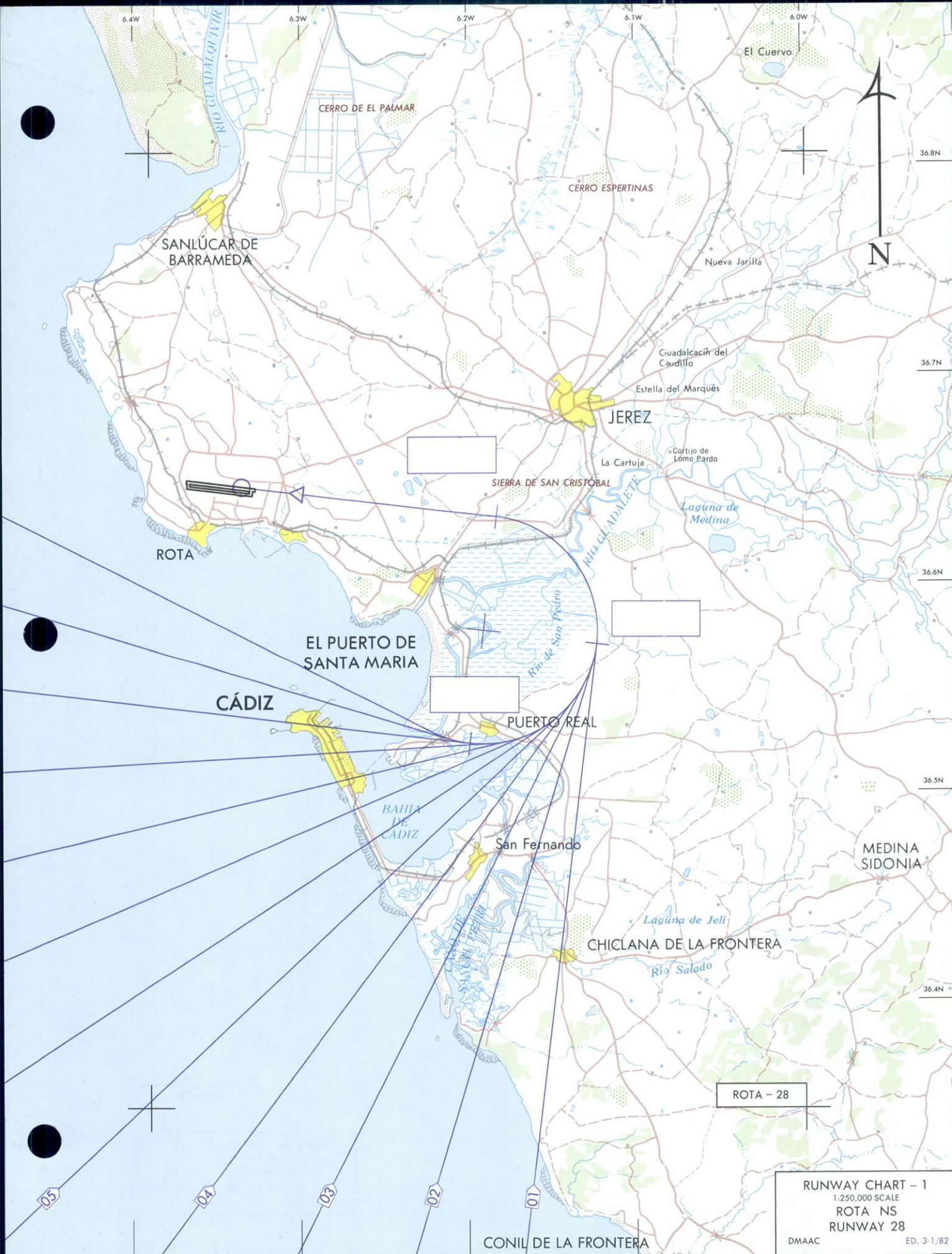
10

09

08

07

06



RUNWAY CHART - 1
 1:250,000 SCALE
ROTA NS
RUNWAY 28
 DMAAC ED. 3-1/82

CONIL DE LA FRONTERA

ROTA - 28

SANLÚCAR DE BARRAMEDA

JEREZ

EL PUERTO DE SANTA MARIA

CÁDIZ

PUERTO REAL

San Fernando

CHICLANA DE LA FRONTERA

MEDINA SIDONIA

CERRO DE EL PALMAR

CERRO ESPERTINAS

El Cuervo

Nueva Jarilla

Guadalcañ del Caudillo

Estella del Marqués

La Cartuja

Cortijo de Lomo Pardo

SIERRA DE SAN CRISTOBAL

Laguna de Medina

BAHIA DE CÁDIZ

Laguna de Jeli

Río Salado

6.4W

6.3W

6.2W

6.1W

6.0W

36.8N

36.7N

36.6N

36.5N

36.4N

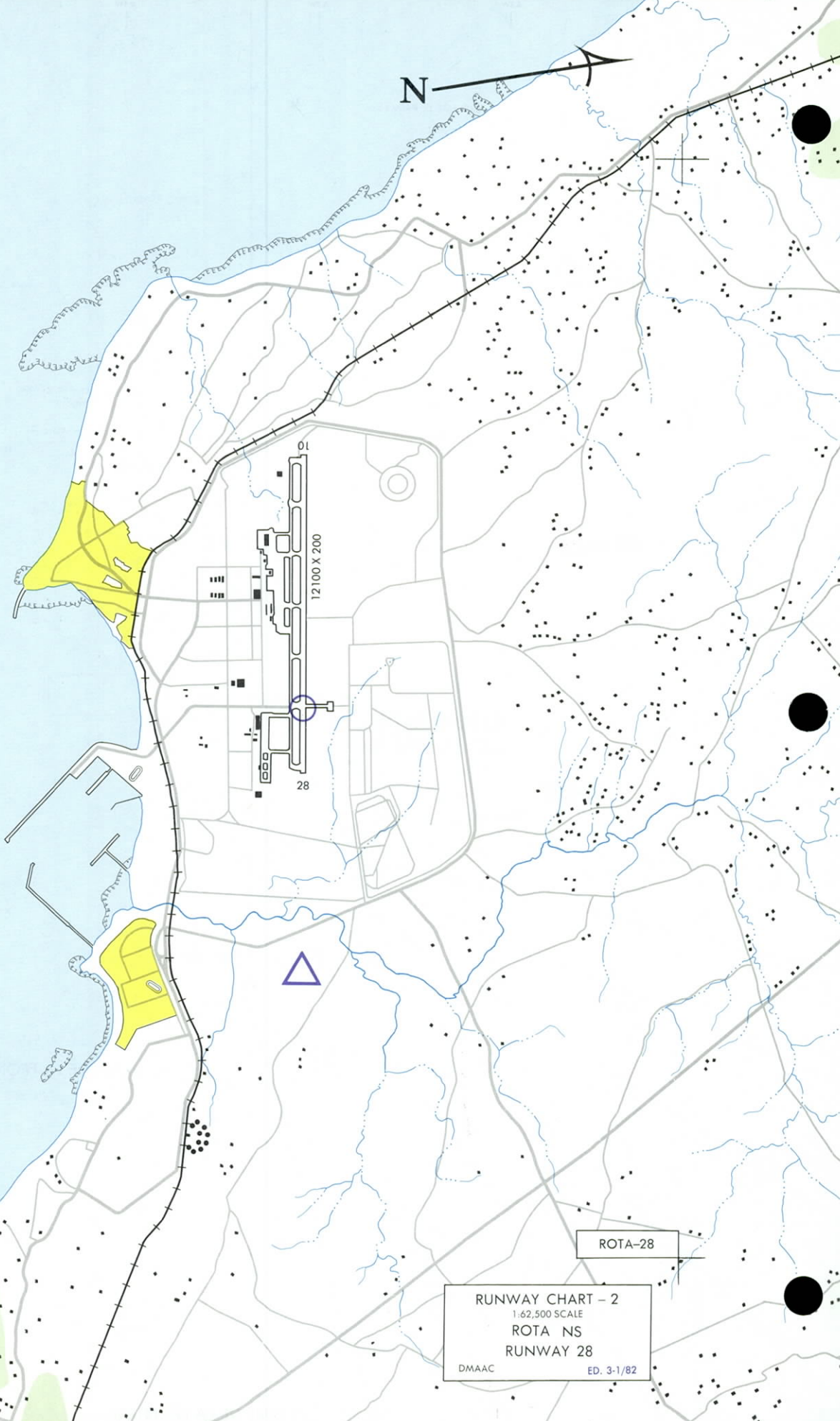
05

04

03

02

10

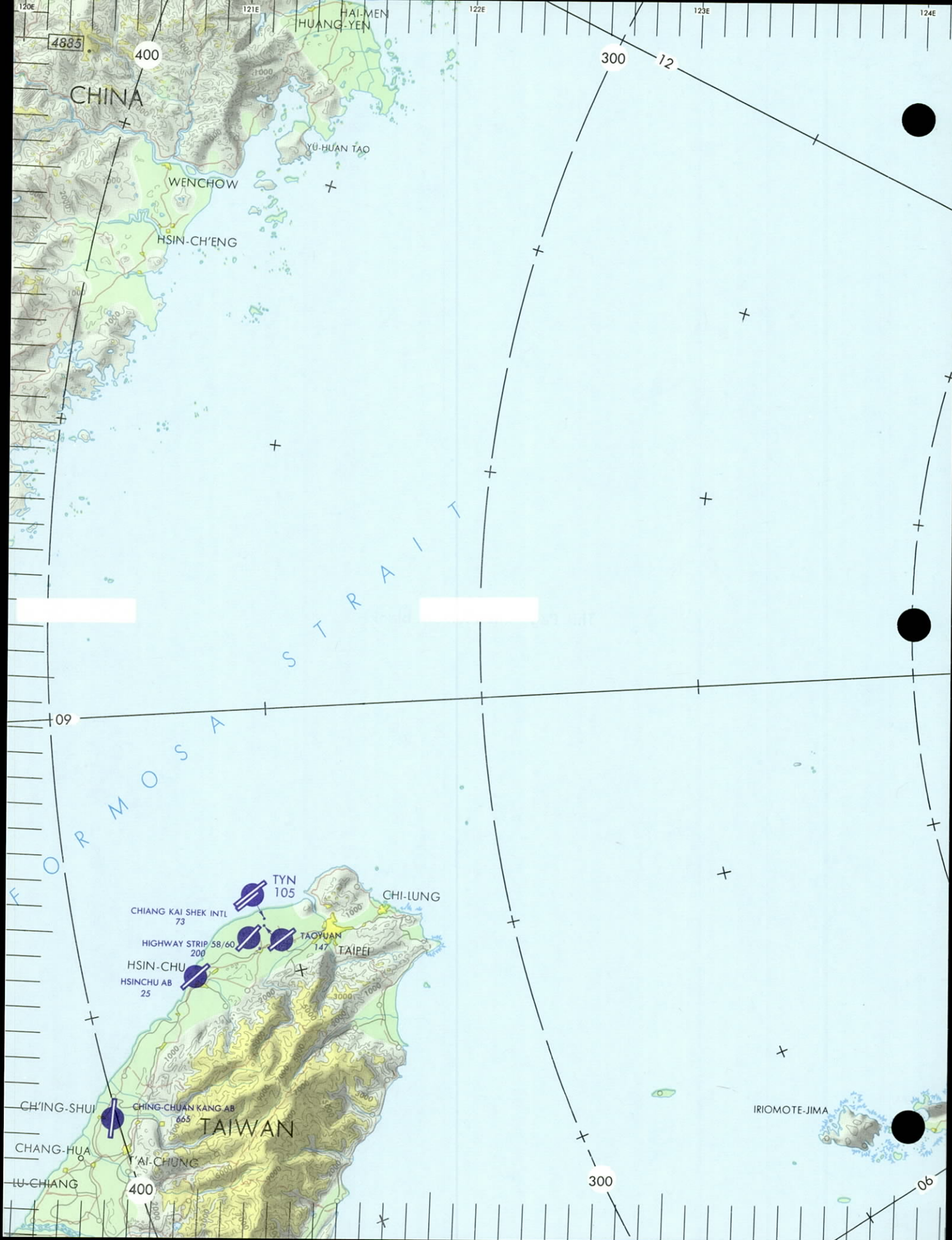


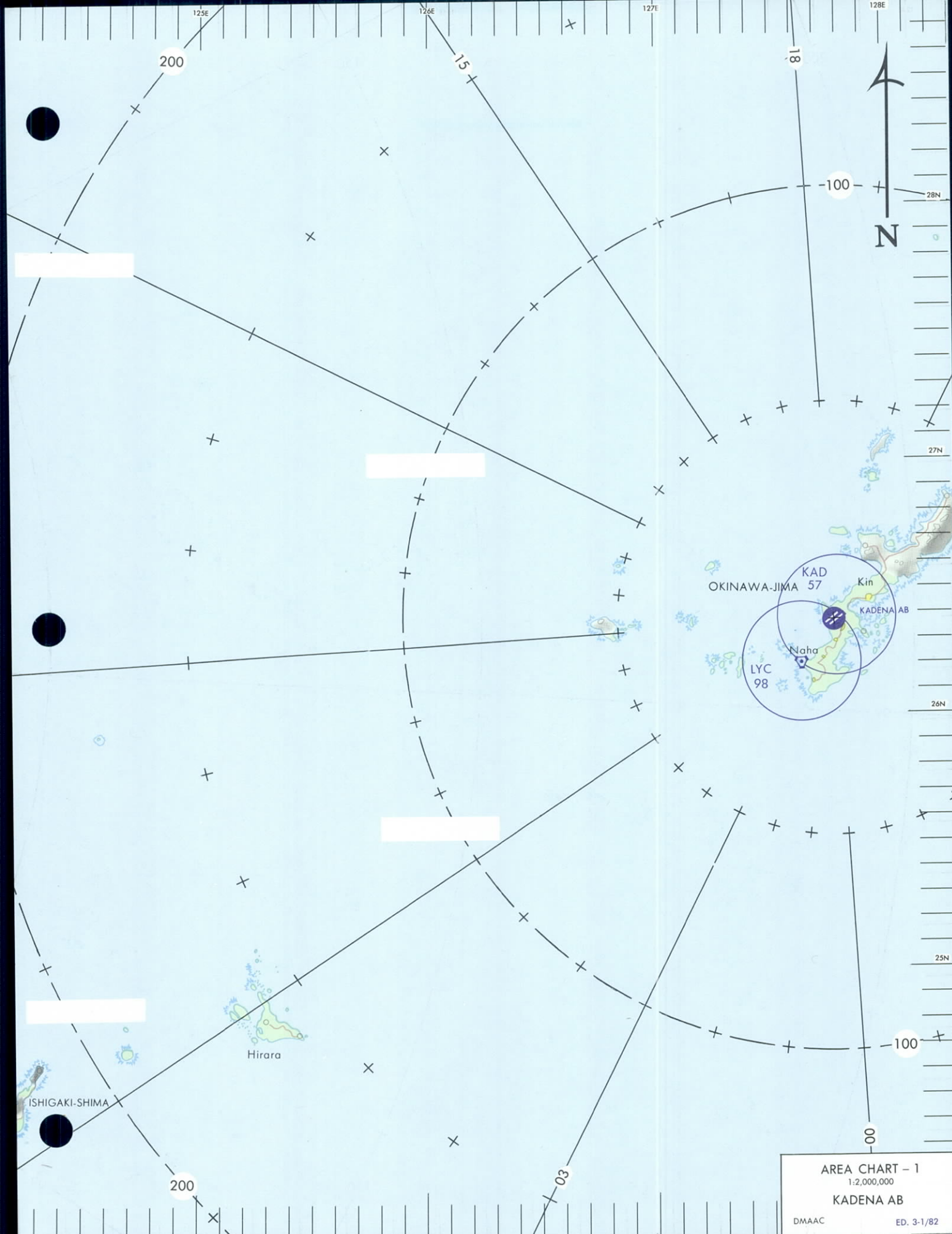
ROTA-28

RUNWAY CHART - 2
1:62,500 SCALE
ROTA NS
RUNWAY 28
DMAAC ED. 3-1/82

KADENA AB
Okinawa

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AREA CHART - 1
1:2,000,000
KADENA AB

DMAAC

ED. 3-1/82

124E

125E

200

150

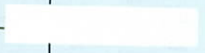
12

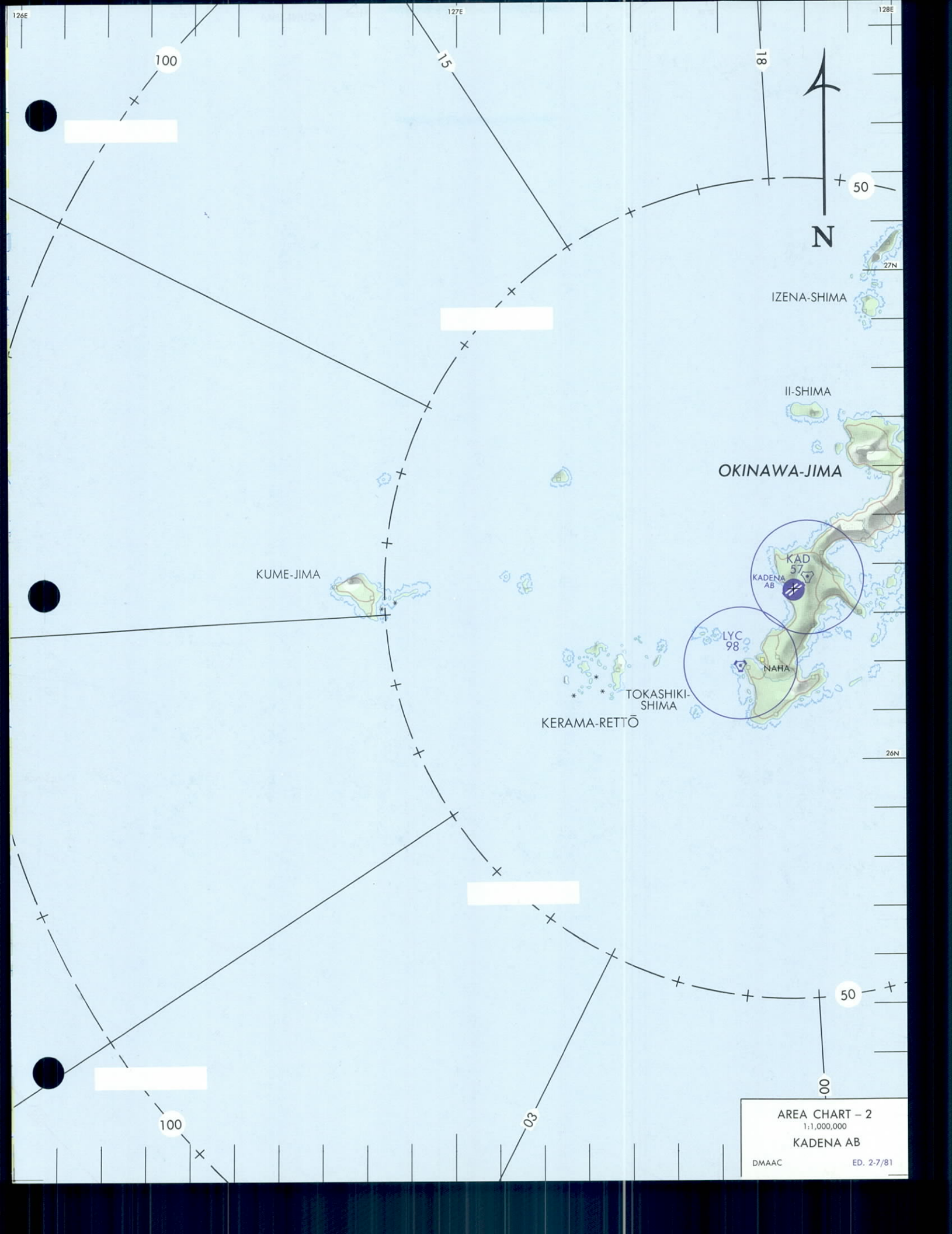
09

200

150

06





100

15

18

50

N

IZENA-SHIMA

II-SHIMA

OKINAWA-JIMA

KUME-JIMA

KAD
57
KADENA
AB

LYC
98
NAHA

TOKASHIKI-SHIMA

KERAMA-RETTŌ

26N

50

100

03

AREA CHART - 2
1:1,000,000
KADENA AB

DMAAC

ED. 2-7/81

126.9E

127.0E

127.1E

127.2E

127.3E

AGUNI-JIMA

12

13

11

R = 40

10

TONAKI-JIMA

U-TAKI

09

ZAMAMI-SHIMA

08

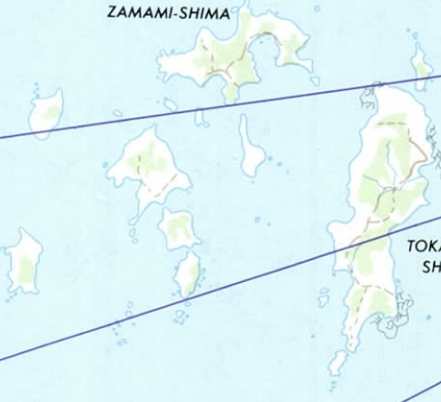
TOKASHIKI-SHIMA

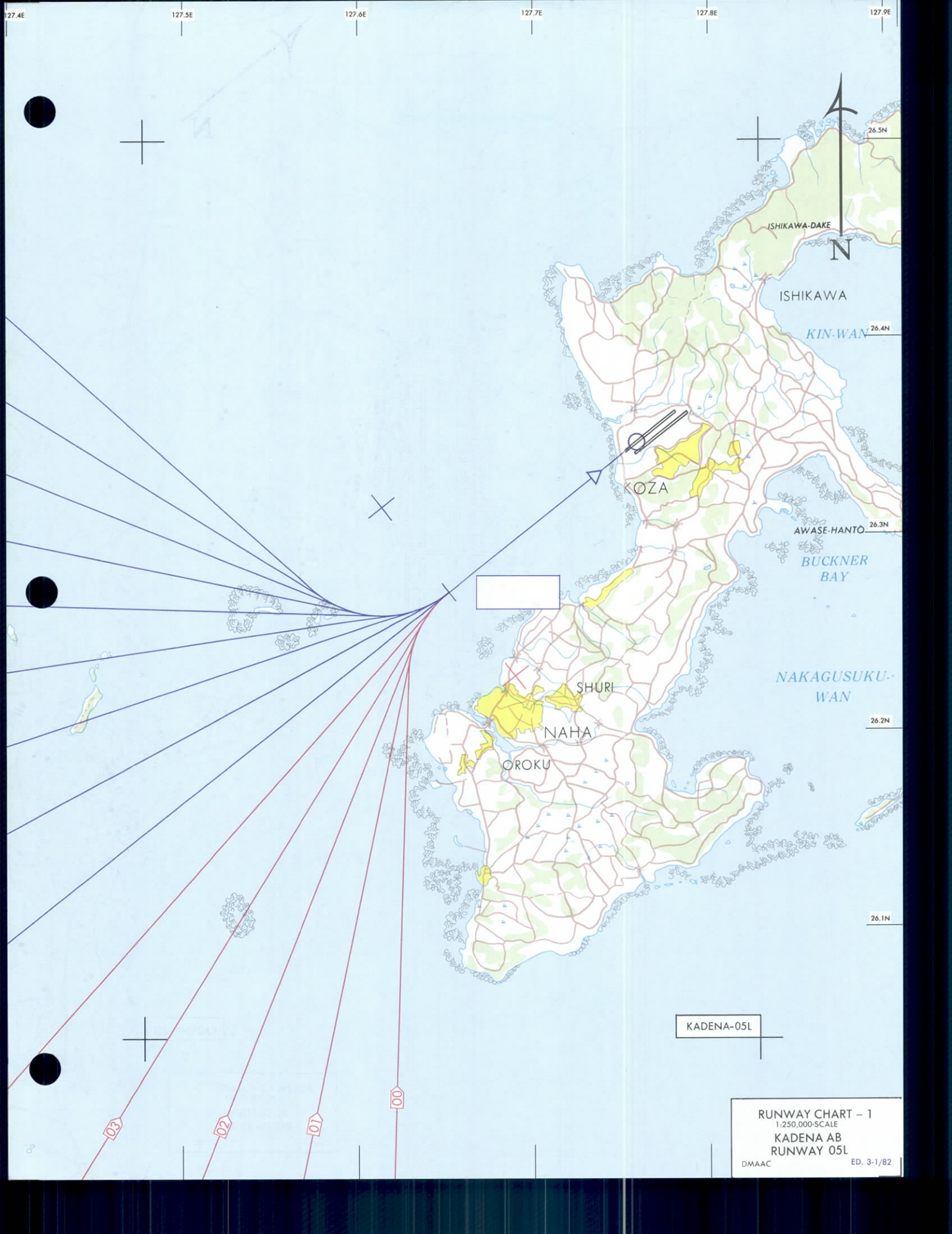
07

06

05

04





127.5E

127.6E

127.7E

127.8E

127.9E

26.5N

26.4N

26.3N

26.2N

26.1N

ISHIKAWA-DAKE

ISHIKAWA

KIN-WAN

KOZA

AWASE-HANTO

BUCKNER BAY

NAKAGUSUKU-WAN

SHURI

NAHA

OROKU

KADENA-05L

RUNWAY CHART - 1
1:250,000-SCALE
KADENA AB
RUNWAY 05L

DMAAC

ED. 3-1/82

03

02

01

00



KADENA-05L

RUNWAY CHART - 2
1:62,500 SCALE
KADENA AB
RUNWAY 05L
DMAAC ED. 3-1/82

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127.2E

127.3E

127.4E

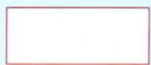
127.5E

127.6E

11

R=40

12



11



AGUNI-JIMA



10

R=50



TONAKI-JIMA

U-TAKI

09

08

ZAMAMI-SHIMA

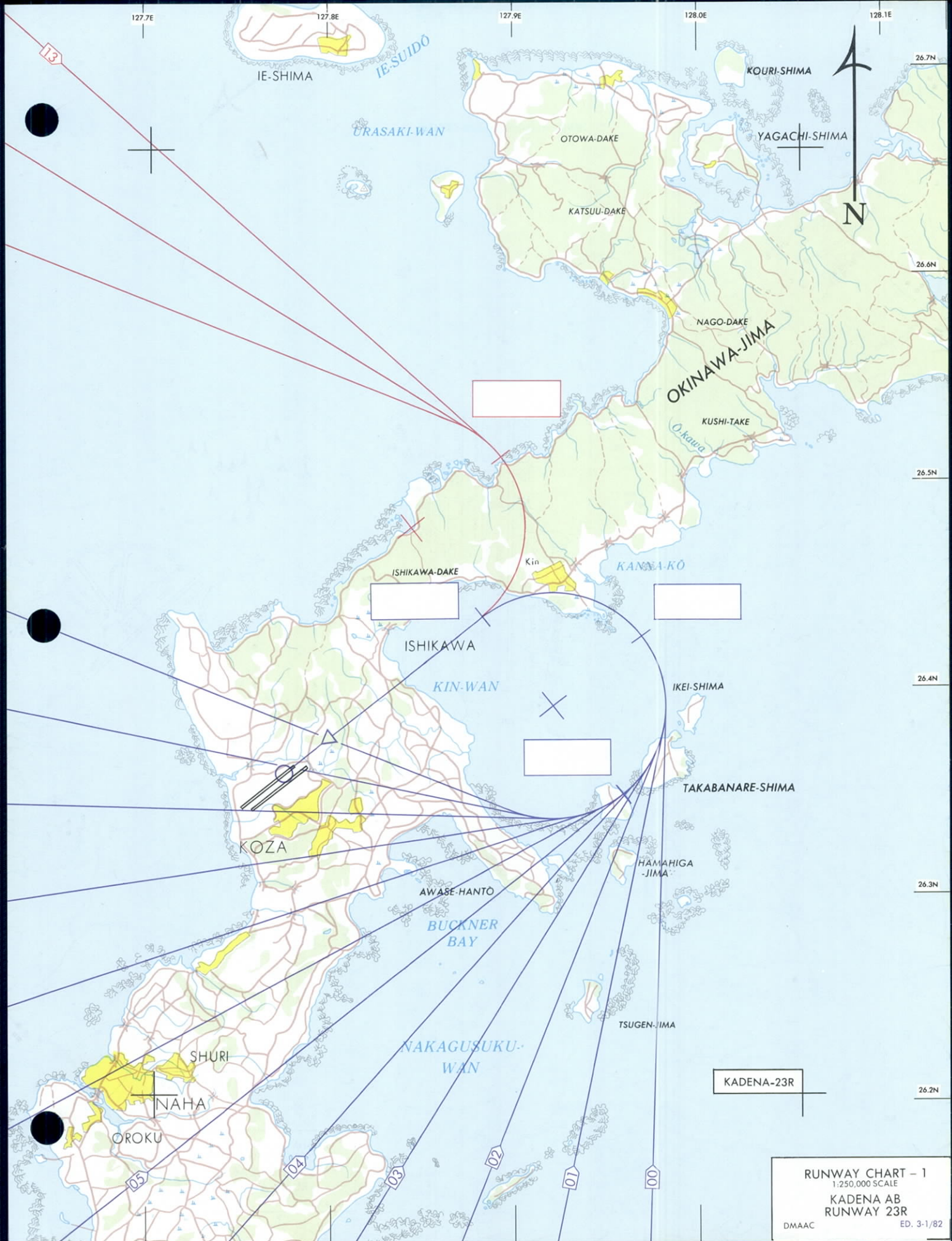


TOKASHIKI-SHIMA

07

06





RUNWAY CHART - 1
 1:250,000 SCALE
KADENA AB
RUNWAY 23R
 DMAAC ED. 3-1/82

[Red box]

[Red box]

[Red box]

[Red box]

KADENA-23R

127.7E

127.9E

128.0E

128.1E

26.7N

26.6N

26.5N

26.4N

26.3N

26.2N

13

05

04

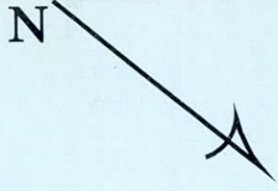
03

02

01

00





05R 05L

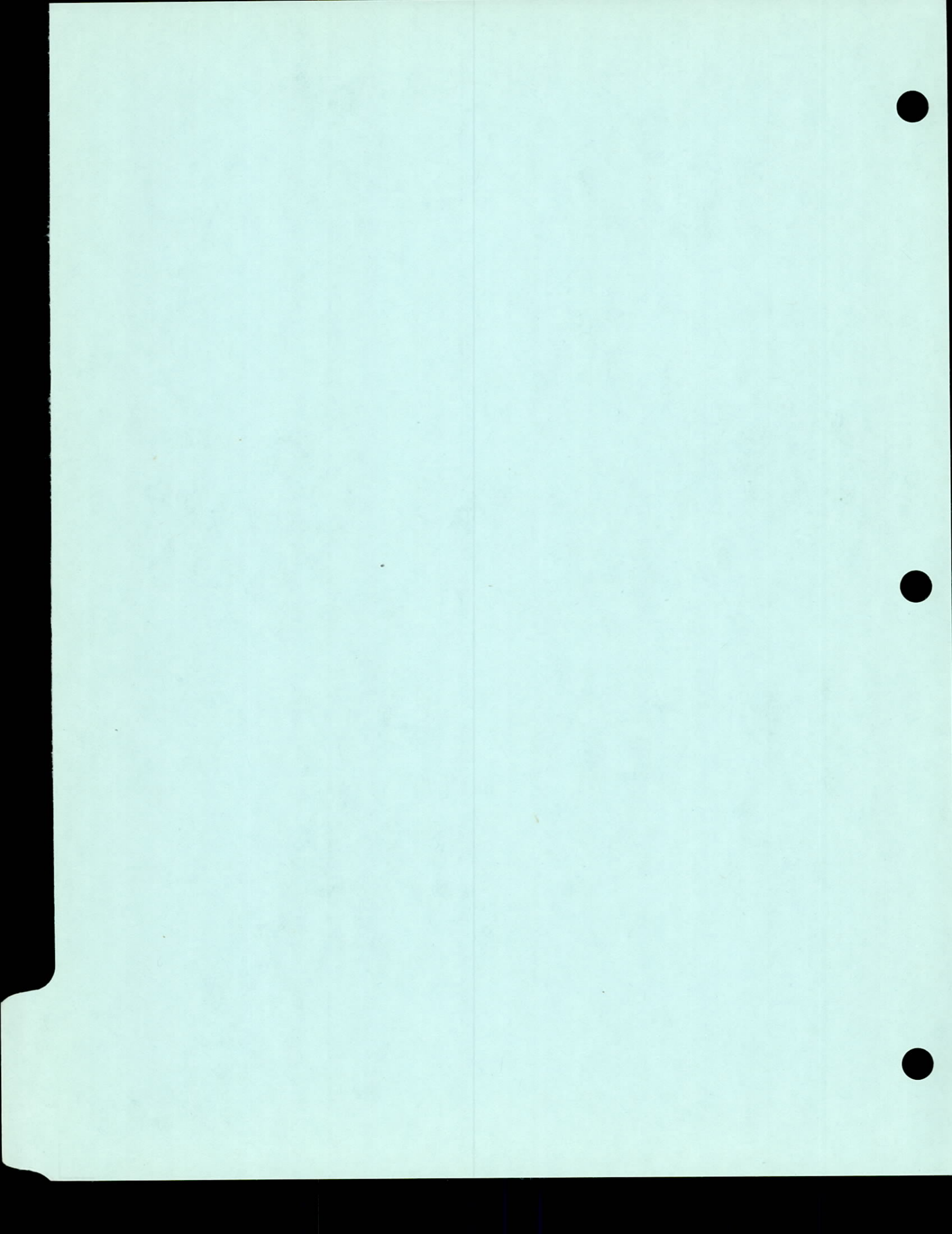
12,000 x 200
12,000 x 300

23L 23R

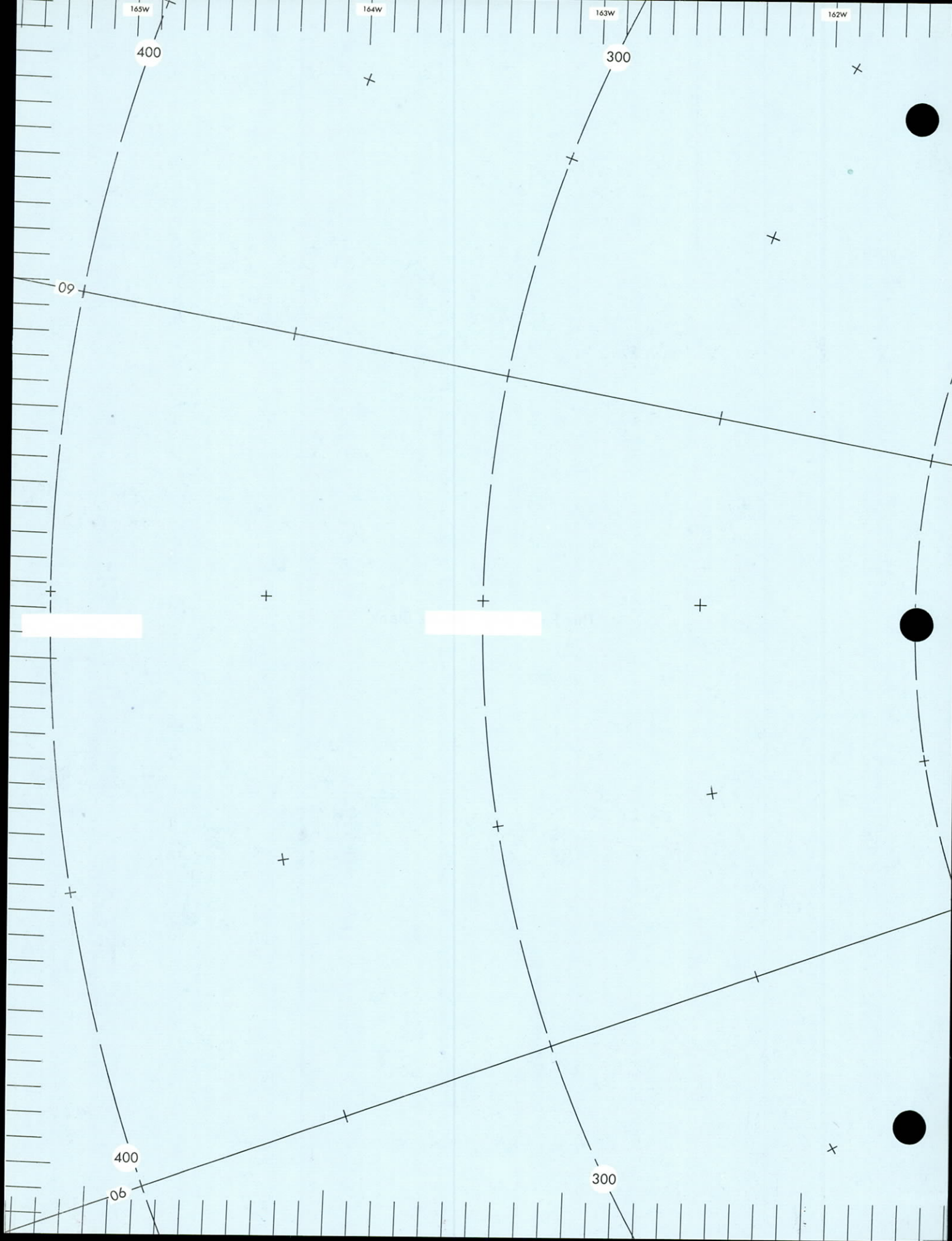
KADENA-23R

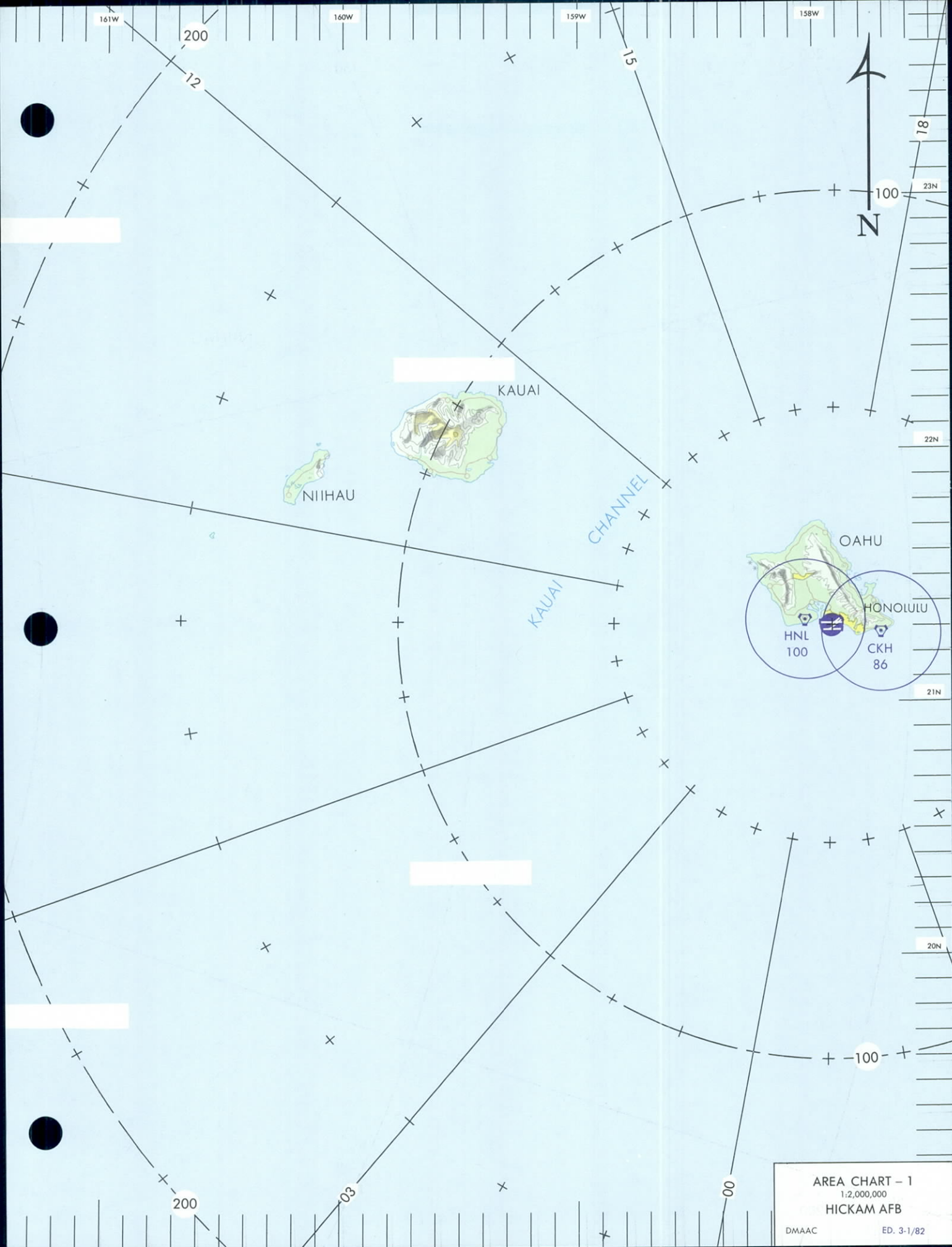
RUNWAY CHART - 2
1:62,500 SCALE
KADENA AB
RUNWAY 23R
DMAAC ED. 3-1/82



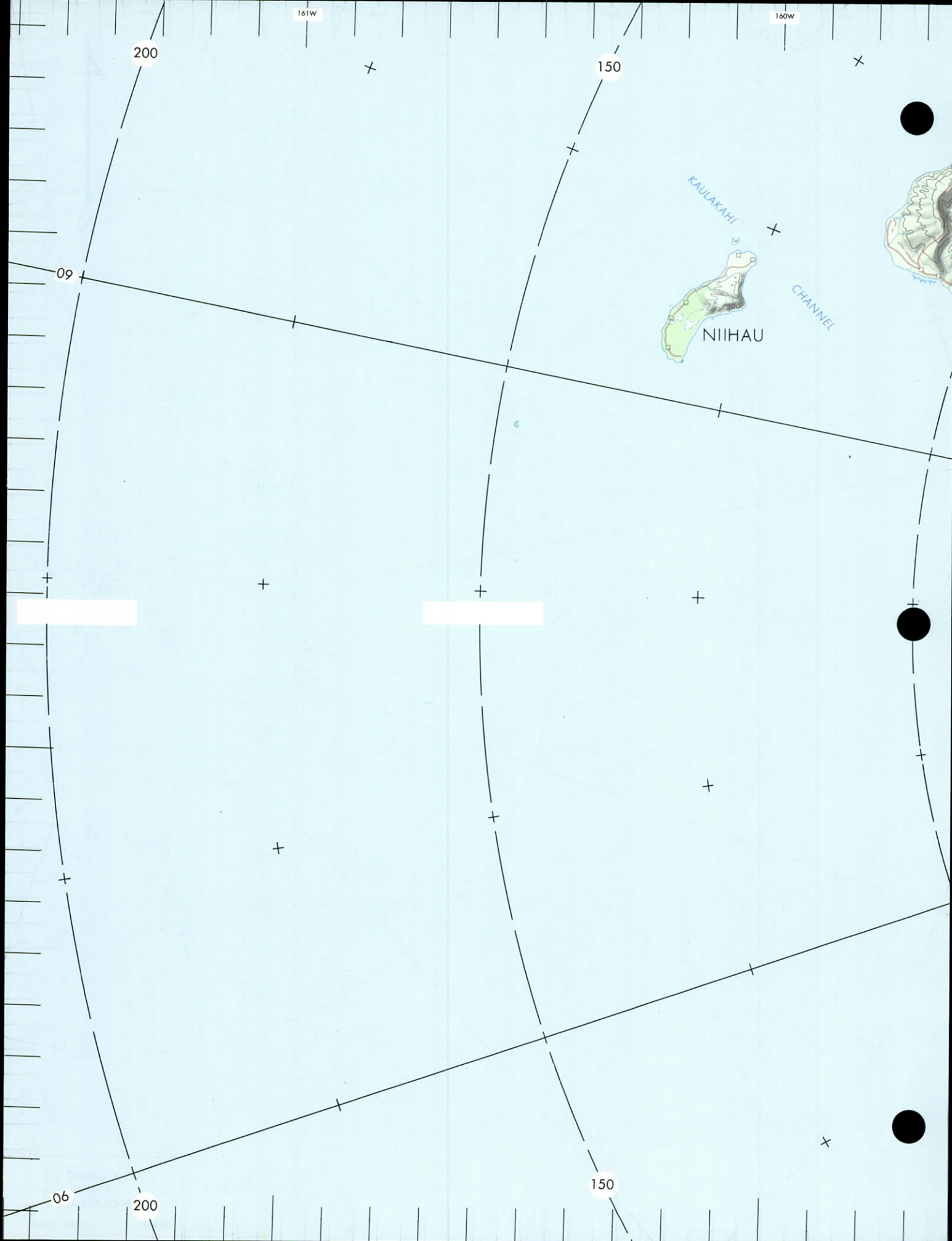


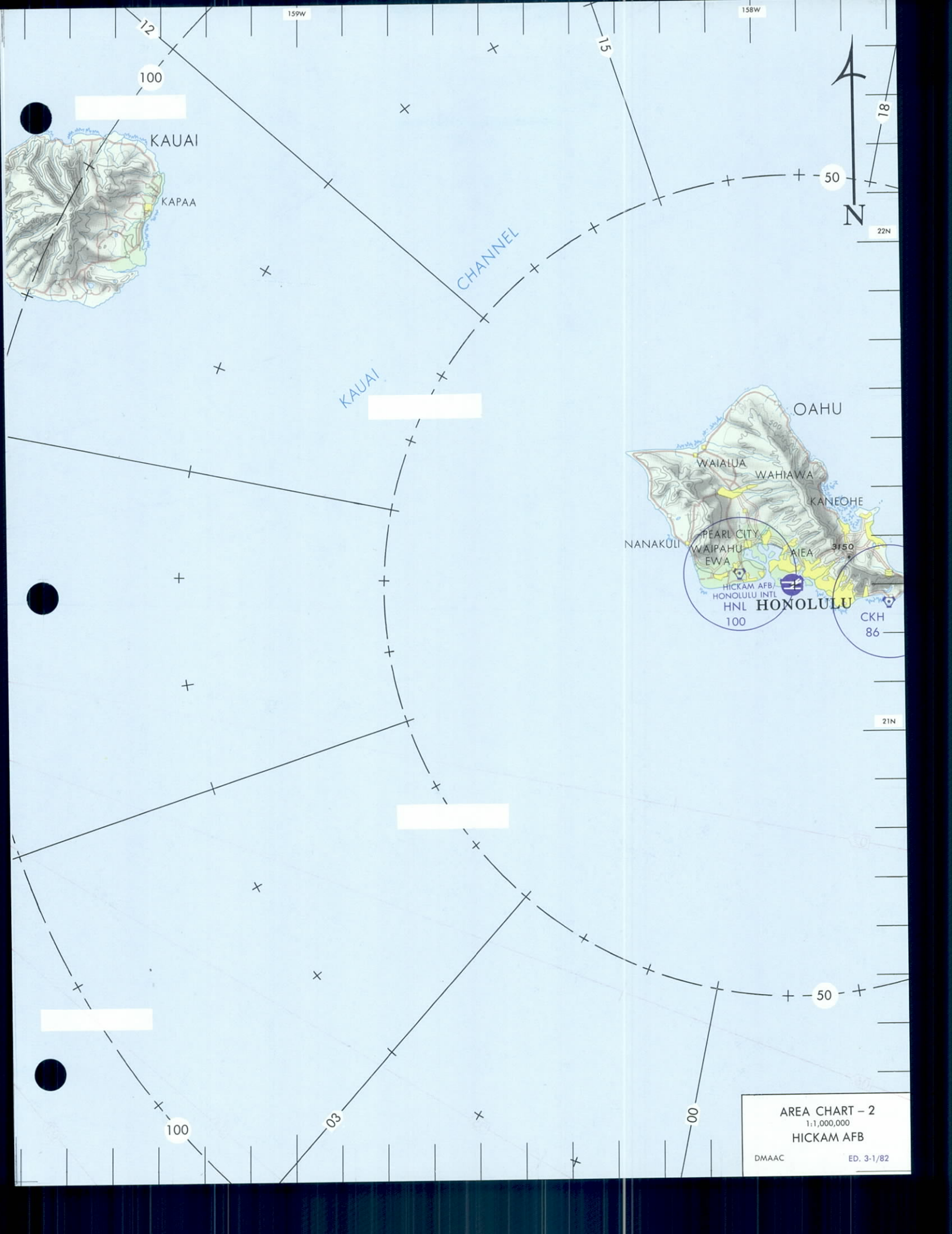
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AREA CHART - 1
1:2,000,000
HICKAM AFB
DMAAC ED. 3-1/82





100

KAUAI

KAPAA

KAUAI

CHANNEL



22N

OAHU



21N

50

100

03

00

AREA CHART - 2
1:1,000,000
HICKAM AFB
DMAAC ED. 3-1/82

158.8W

158.7W

158.6W

158.5W

158.4W

11



R = 40

10

09

08

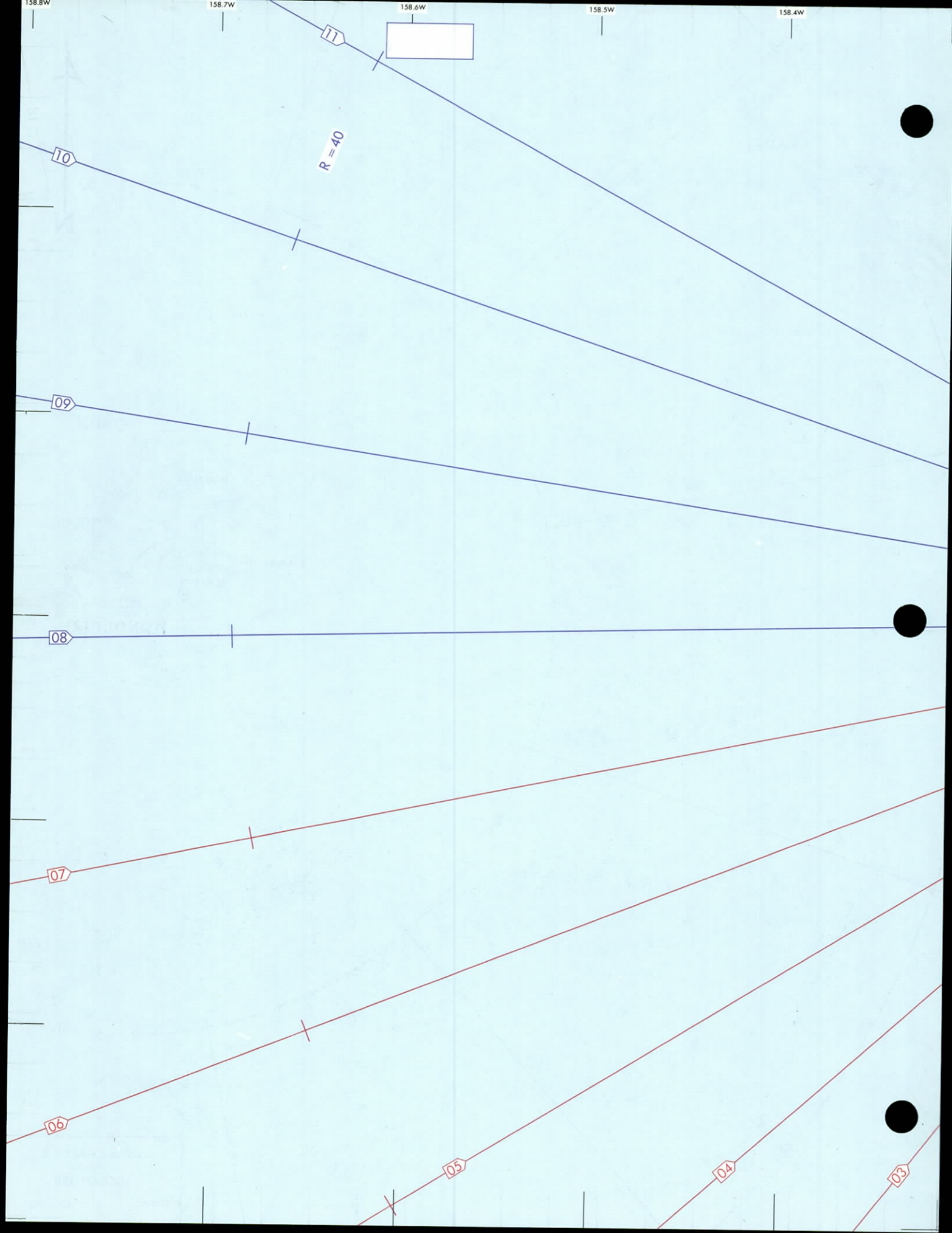
07

06

05

04

03





HICKAM-08R

RUNWAY CHART - 1
 1:250,000 SCALE
HICKAM AFB
RUNWAY 08R
 DMAAC ED. 3-1/82

02

01

00

35

21.2N

21.1N

21.4N

21.5N

158.3W

158.2W

158.1W

158.0W

157.9W

21.6N

SAND ISLAND

KEEHI LAGOON

PEARL HARBOR

PUULOA

EWA BEACH

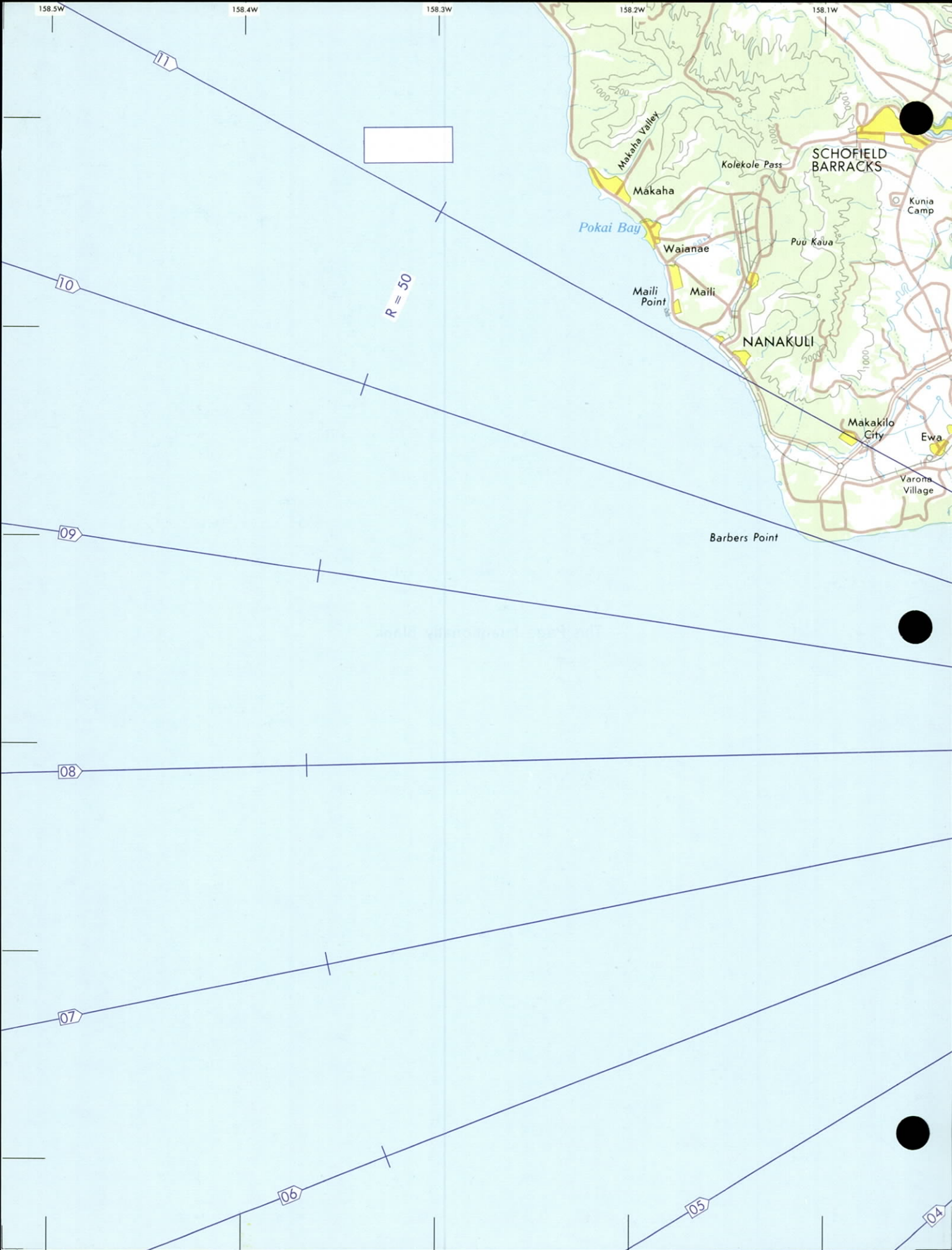


HICKAM-08R

RUNWAY CHART - 2
1:62,500 SCALE
HICKAM AFB
RUNWAY 08R
DMAAC ED. 3-1/82

N

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21.5N

21.4N

21.3N

21.2N

21.1N

21.0N

03

02

01

00

35

HICKAM-26L

RUNWAY CHART - 1
 1:250,000 SCALE
 HICKAM AFB
 RUNWAY 26L
 DMAAC ED. 3-1/82

EWA BEACH



PUULOA

PEARL HARBOR

12000 X 200

KEEHL LAGOON

SAND ISLAND

HICKAM-26L

RUNWAY CHART - 2
 1:62,500 SCALE
 HICKAM AFB
 RUNWAY 26L
 DMAAC ED. 3-1/82



