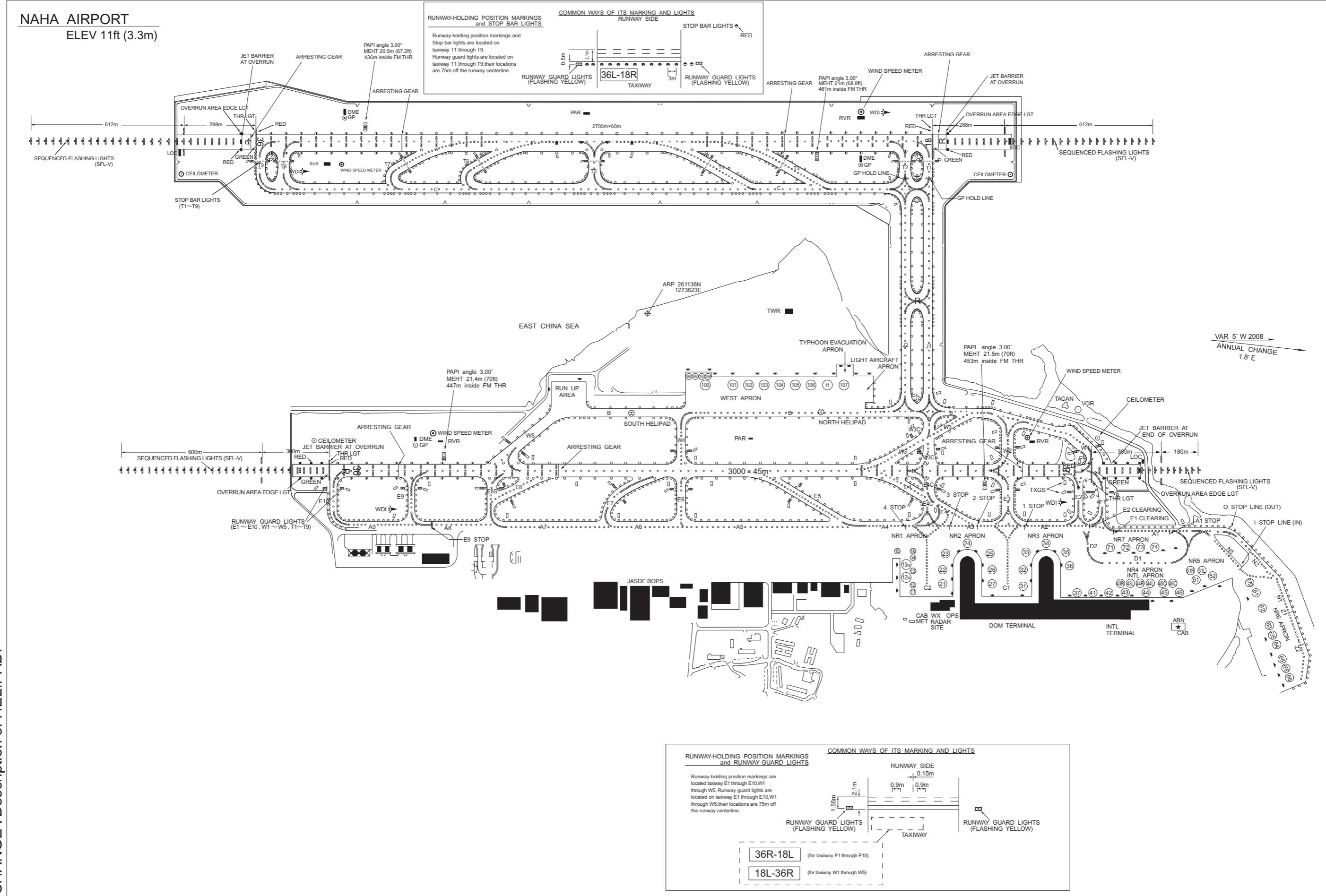
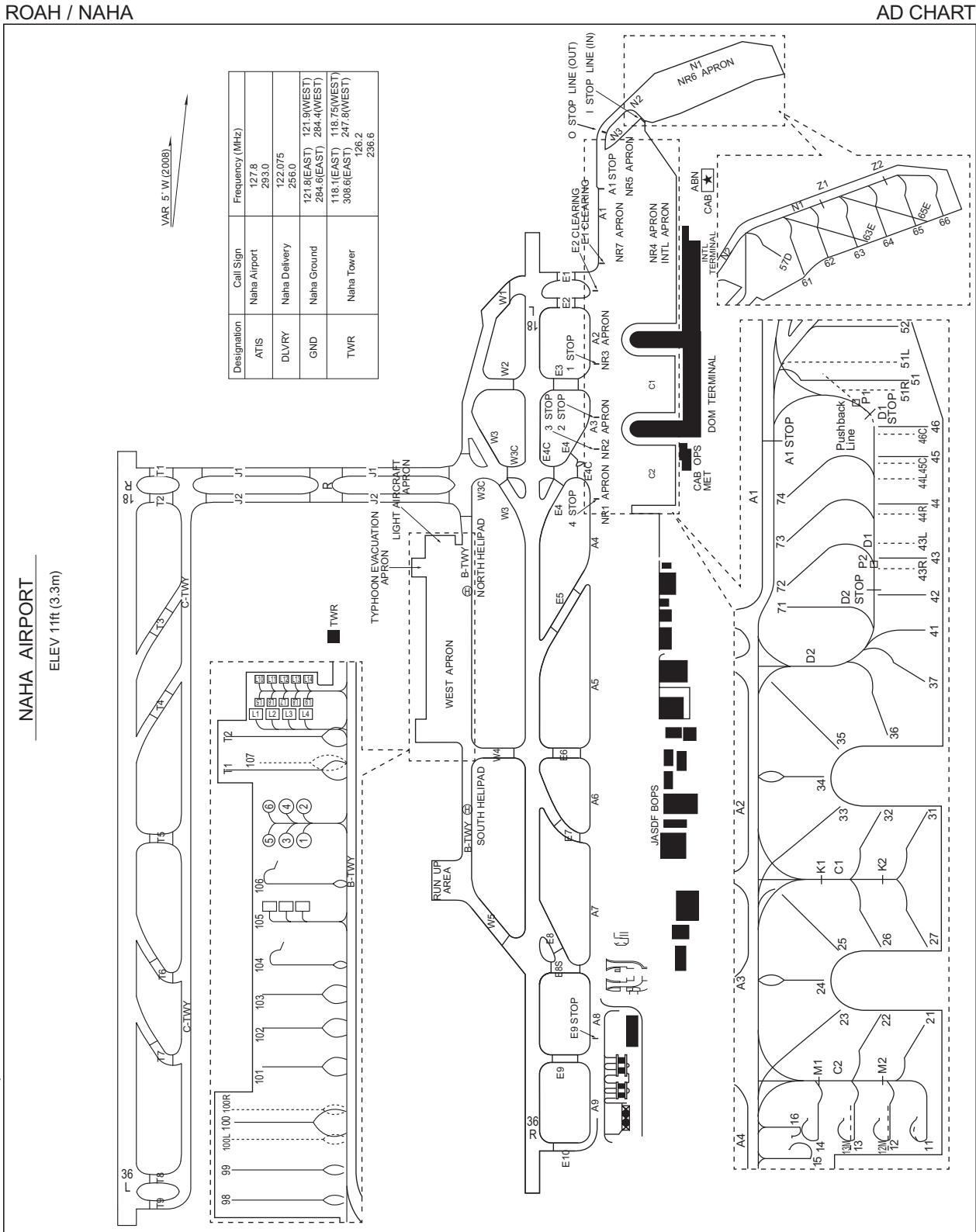


AERODROME CHART



CHANGE : Description of HELIPAD.

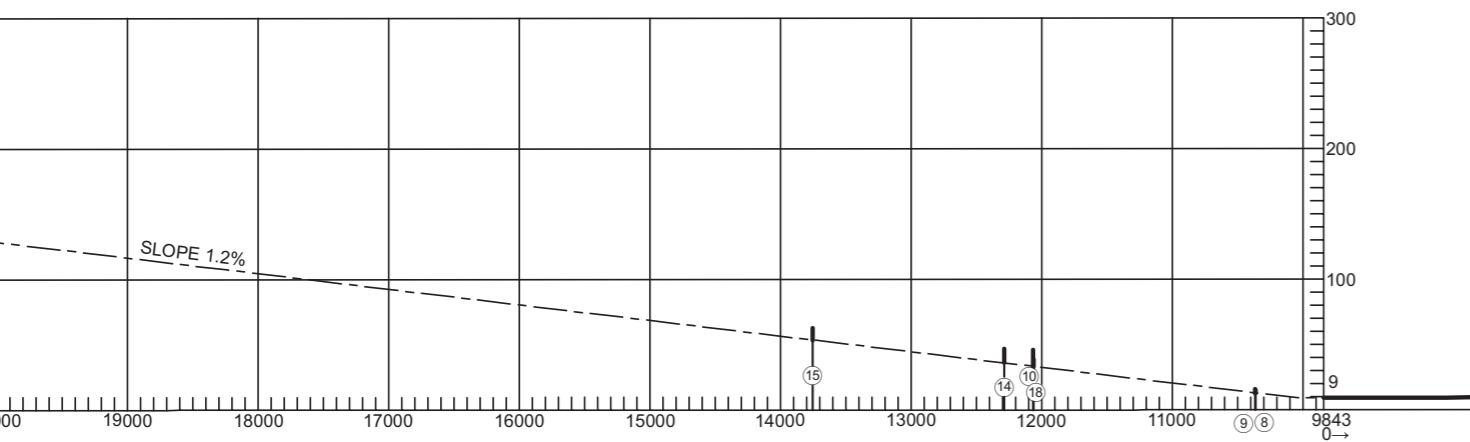


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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

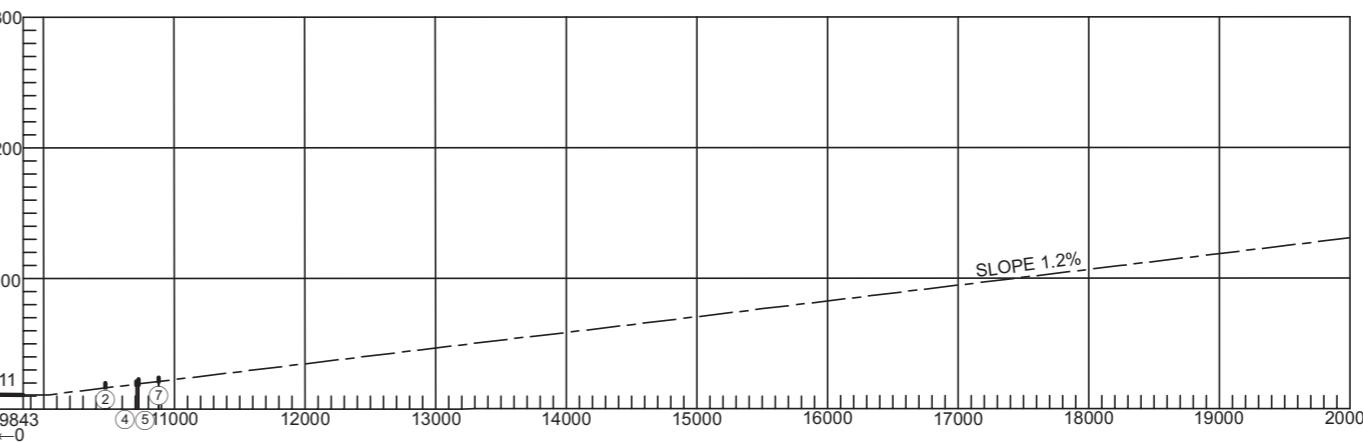
MAGNETIC VARIATION 6°W - FEB 2023



NAHA AIRPORT
RWY: 36R/18L

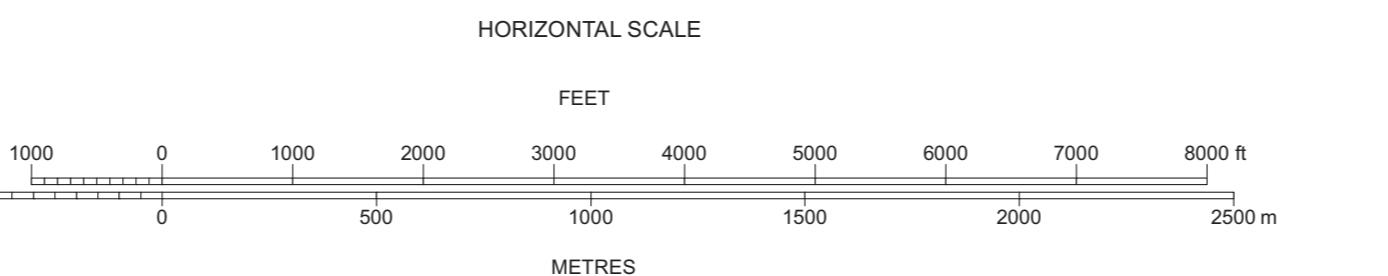
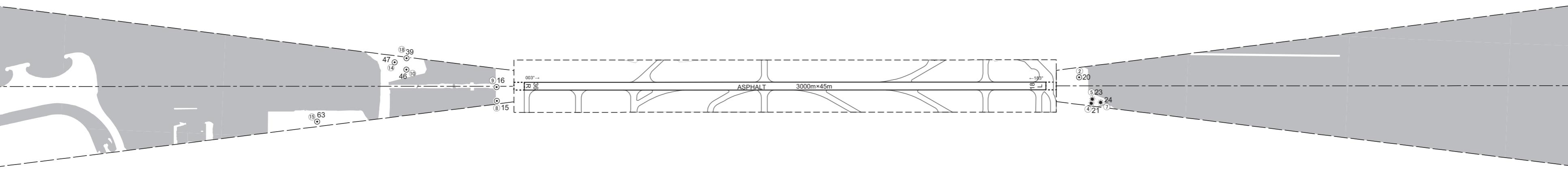
DECLARED DISTANCES

RWY 36R	RWY 18L	
3000m	TAKE OFF RUN AVAILABLE	3000m
3000m	TAKE OFF DISTANCE AVAILABLE	3000m
3000m	ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m	LANDING DISTANCE AVAILABLE	3000m



FT M
300 100
250 75
200 50
150 25
100 0

VERTICAL SCALE



LEGEND

- (1) IDENTIFICATION NUMBER
- (○) POLE, TOWER, SPIRE, ANTENNA, ETC
- (*) TREE
- (—) RAILROAD
- (---) TRANSMISSION LINE OR OVERHEAD CABLE
- (△) TRIANGULATION POINT
- (★) AERONAUTICAL GROUND LIGHT
- (■) BUILDING OR LARGE STRUCTURE
- (~~~~) CONTOURS(ft)
- (※) OBSTRUCTION LIGHT

AMENDMENT RECORD

Nr	DATE	ENTERED BY

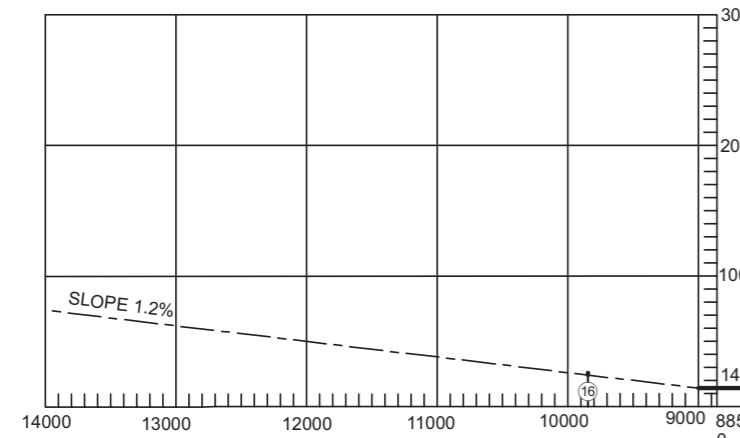
測量法に基づく国土地理院長承認(使用) R 4JHs 286

CHANGE : Update.

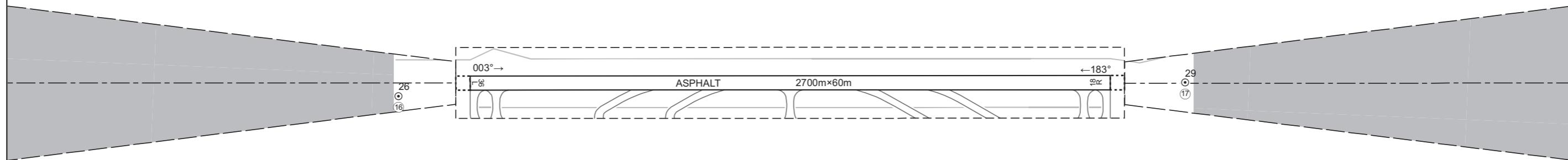
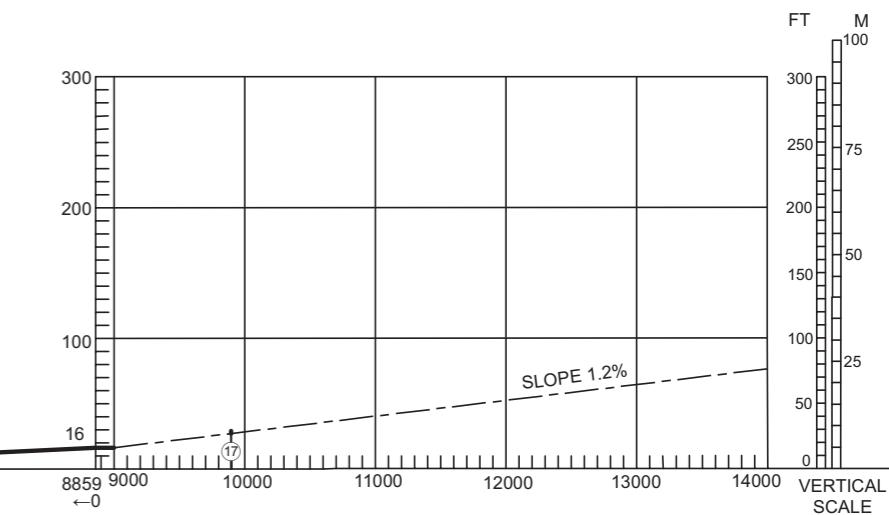
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

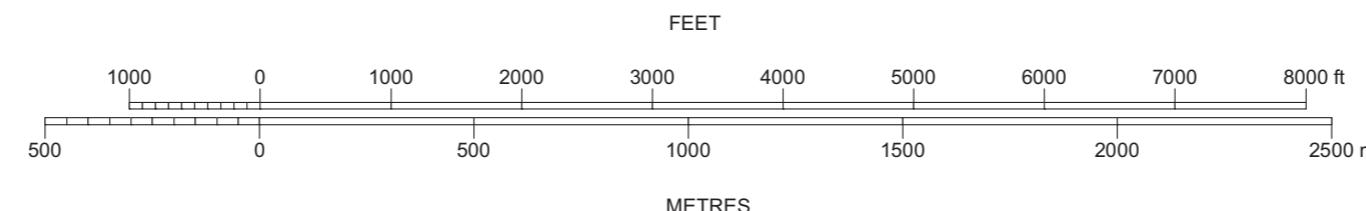
MAGNETIC VARIATION 6°W - FEB 2023



NAHA AIRPORT RWY: 36L/18R	
DECLARED DISTANCES	
RWY 36L	RWY 18R
2700m	TAKE OFF RUN AVAILABLE 2700m
2700m	TAKE OFF DISTANCE AVAILABLE 2700m
2700m	ACCELERATE STOP DISTANCE AVAILABLE 2700m
2700m	LANDING DISTANCE AVAILABLE 2700m



HORIZONTAL SCALE



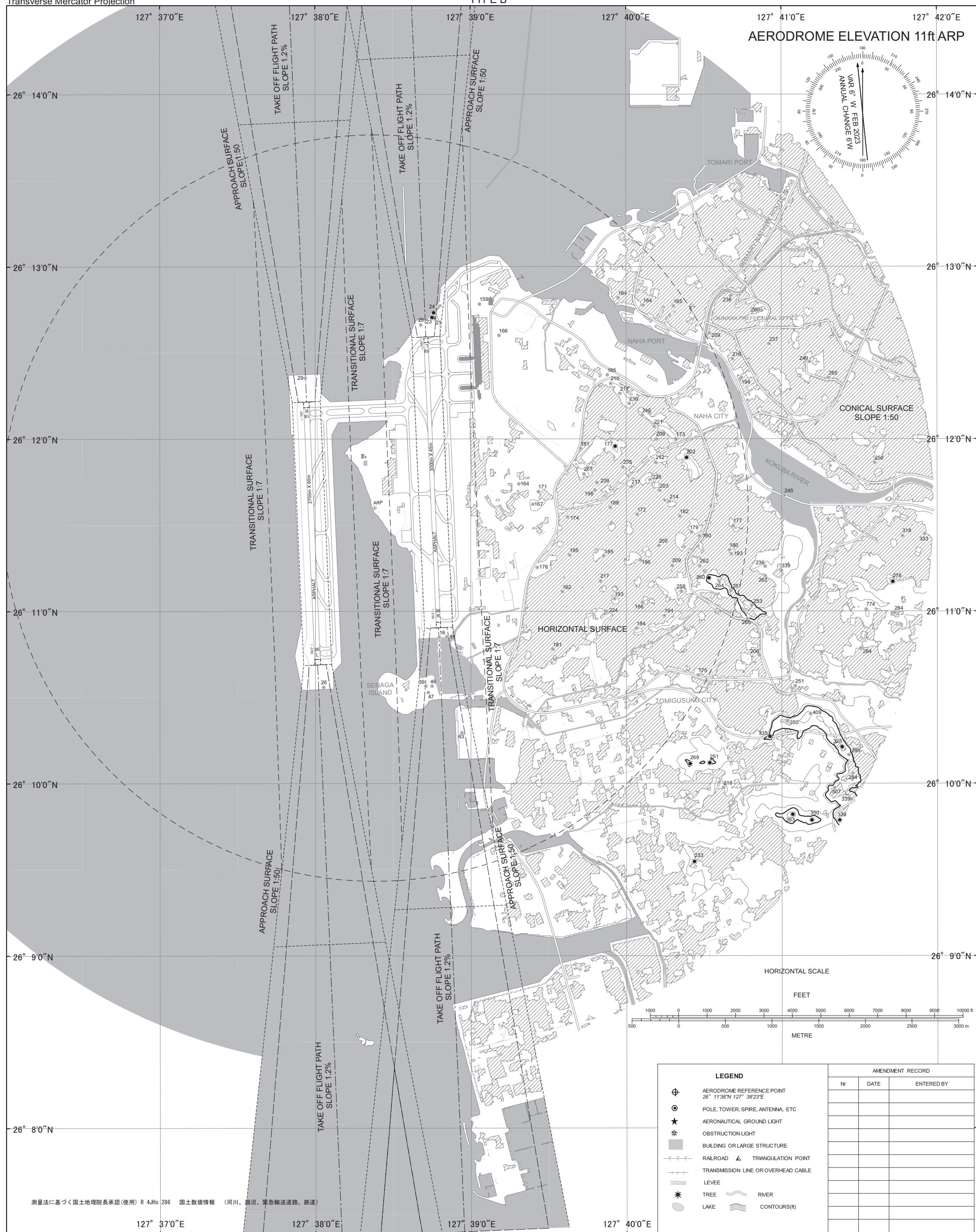
CHANGE : Update.

測量法に基づく国土地理院長承認(使用) R 4JHs 286

LEGEND			AMENDMENT RECORD		
Nr	DATE	ENTERED BY			
①	IDENTIFICATION NUMBER				
◎	POLE, TOWER, SPIRE, ANTENNA, ETC				
*	TREE	LEVEE			
- - -	RAILROAD	RIVER			
— + —	TRANSMISSION LINE OR OVERHEAD CABLE				
△	TRIANGULATION POINT				
★	AERONAUTICAL GROUND LIGHT				
▨	BUILDING OR LARGE STRUCTURE				
~~~~~	CONTOURS(ft)				
※	OBSTRUCTION LIGHT				

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE B



CHANGE : Update.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/ NAHA

SID

NAHA NORTH FOUR DEPARTURE

RWY18L/18R: (Not established)  
RWY36R : Climb RWY HDG to NHC 2.4DME,...  
RWY36L : Climb RWY HDG to 500FT,...  
...turn left, via NHC R341 to EISAR.

Note RWY36R/36L: 5.0% climb gradient required up to 500FT.

SCUBA TRANSITION

From over EISAR, via NHC R341 to 24.1DME, turn right to intercept NHC R344 to SCUBA.  
Cross SCUBA at or above 4000FT.

LAVON ONE DEPARTURE

RWY18L : Climb RWY HDG to NHC 4.7DME, turn right, via NHC R196...  
RWY18R : Climb RWY HDG to 600FT, turn right, via NHC R211...  
... to intercept and proceed via NHC 15.0DME clockwise ARC to LAVON.  
  
RWY36R : Climb RWY HDG to NHC 2.4DME, turn left, via NHC R341...  
RWY36L : Climb RWY HDG to 500FT, turn left, via NHC R308...  
...to intercept and proceed via NHC 15.0DME counterclockwise ARC to LAVON.

Note RWY36R/36L: 5.0% climb gradient required up to 500FT.

OLVAL ONE DEPARTURE

RWY18L : Climb RWY HDG to NHC 4.7DME, turn right, via NHC R196...  
RWY18R : Climb RWY HDG to 600FT, turn right, via NHC R211...  
... to intercept and proceed via NHC 15.0DME clockwise ARC to OLVAL.

RWY36R : Climb RWY HDG to NHC 2.4DME, turn left, via NHC R341...  
RWY36L : Climb RWY HDG to 500FT, turn left, via NHC R308...  
...to intercept and proceed via NHC 15.0DME counterclockwise ARC to OLVAL.

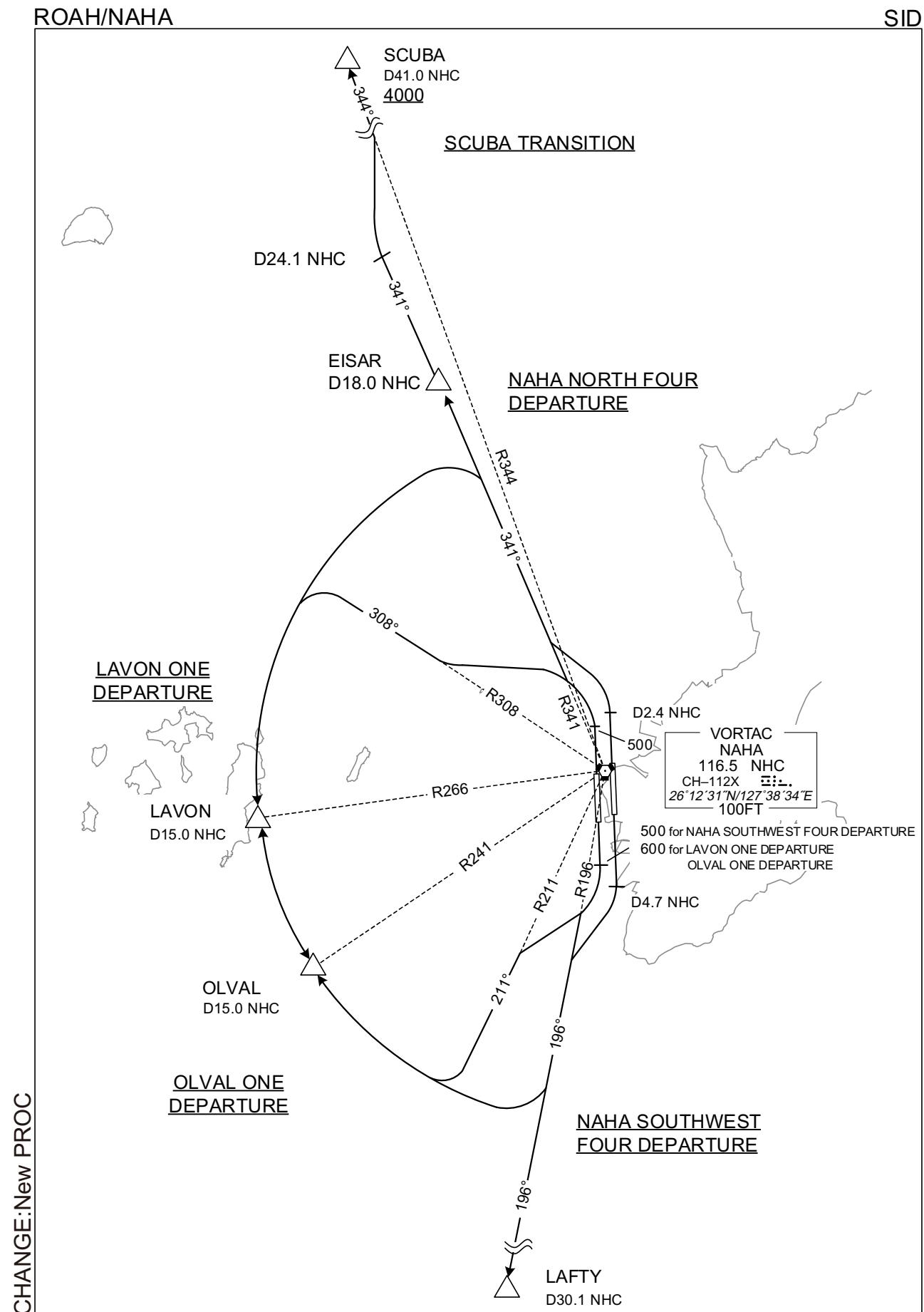
Note RWY36R/36L: 5.0% climb gradient required up to 500FT.

NAHA SOUTHWEST FOUR DEPARTURE

RWY18L : Climb RWY HDG to NHC 4.7DME,...  
RWY18R : Climb RWY HDG to 500FT,...  
... turn right, via NHC R196 to LAFTY.  
RWY36R/36L: (Not established)

CHANGE:New PROC

## STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

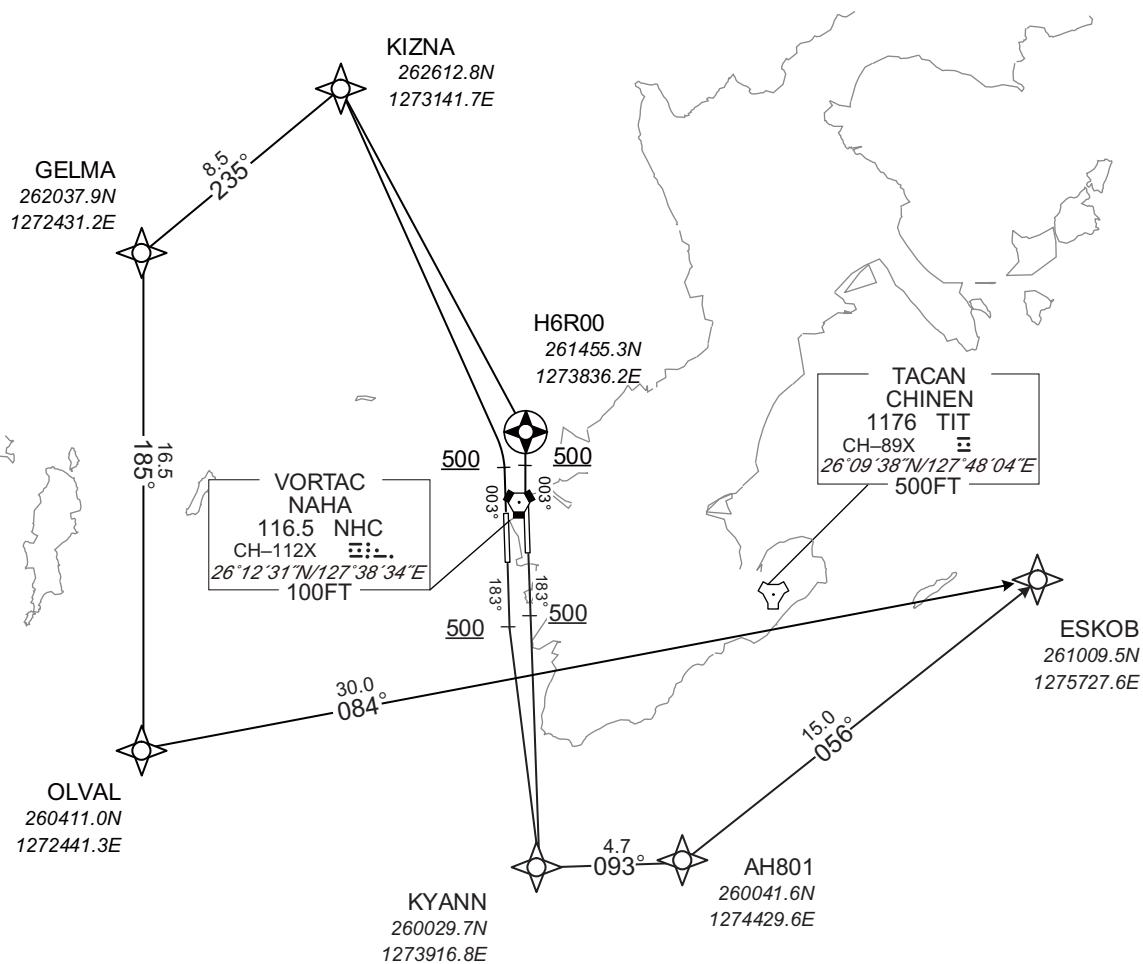
RNAV SID

ESKOB THREE DEPARTURE

RNP1

Note GNSS required.

VAR 6°W



CHANGE : Navigation Specification(Basic RNP1 → RNP1)

RWY18L : Climb on HDG183° at or above 500FT, direct to KYANN, to AH801, to ESKOB.

RWY18R : Climb on HDG183° at or above 500FT, direct to KYANN, to AH801, to ESKOB.

RWY36R : Climb on HDG003° at or above 500FT, direct to H6R00, turn left direct to KIZNA, to GELMA, to OLVAL, to ESKOB.

RWY36L : Climb on HDG003° at or above 500FT, turn left direct to KIZNA, to GELMA, to OLVAL, to ESKOB.

NOTE RWY36R/36L : 5.0% climb gradient required up tp 500FT.

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/ NAHA

RNAV SID

ESKOB THREE DEPARTURE

## RWY18L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	RNP1

## RWY18R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	RNP1

## RWY36R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
005	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	RNP1
006	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	RNP1

## RWY36L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
004	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	RNP1
005	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA	RNAV TRANSITION
	AMAMI TRANSITION / CHERY TRANSITION / YANBARU TRANSITION
Note GNSS required.	
VAR 6°W	
<p>The map illustrates the departure routes from ESKOB and VORTAC NAHA. ESKOB is located at 26°10'09.5N/127°57'27.6E. VORTAC NAHA is located at 26°12'31N/127°38'34E. The routes are as follows:</p> <ul style="list-style-type: none"> <li><b>AMAMI TRANSITION:</b> From ESKOB, via ADDAN, to CHERY, then to AMAMI. The route is labeled with a bearing of 034° and a distance of 703.3 NM.</li> <li><b>CHERY TRANSITION:</b> From ESKOB, via ADDAN, to CHERY. The route is labeled with a bearing of 051° and a distance of 23.7 NM.</li> <li><b>YANBARU TRANSITION:</b> From ESKOB, via ADDAN, to CHERY, then to AMAMI. The route is labeled with a bearing of 031° and a distance of 36.3 NM.</li> </ul> <p>Key locations and coordinates shown on the map:</p> <ul style="list-style-type: none"> <li><b>ESKOB:</b> 26°10'09.5N, 127°57'27.6E</li> <li><b>VORTAC NAHA:</b> 26°12'31N, 127°38'34E</li> <li><b>ADDAN:</b> 26°41'10.0N, 128°18'29.4E</li> <li><b>CHERY:</b> 26°55'56.4N, 128°39'18.1E</li> <li><b>AMAMI:</b> 28°26'37.2N, 129°35'02.6E</li> <li><b>TACAN CHINEN:</b> 1176 TIT, CH-89X, 26°09'38"N/127°48'04"E, 500FT</li> </ul>	
<b>CHANGE : Navigation Specification(Basic RNP1 → RNP1).</b> <p><b>AMAMI TRANSITION</b> From ESKOB, to ADDAN, to CHERY, to AMAMI.</p> <p><b>CHERY TRANSITION</b> From ESKOB, to ADDAN, to CHERY.</p> <p><b>YANBARU TRANSITION</b> From ESKOB, to ADDAN.</p>	

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV TRANSITION

AMAMI TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ESKOB	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	RNP1
004	TF	AMAMI	-	034 (028.3)	-5.6	103.3	-	-	-	-	RNP1

CHERY TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ESKOB	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	RNP1

YANBARU TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ESKOB	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION

KIZNA TWO DEPARTURE  
RESORT TRANSITION

RNP1

Note GNSS required.

VAR 6°W

RESORT TRANSITION

OKUMA  
264017.0N  
1280219.1E

KIZNA  
262612.8N  
1273141.7E

30.8°  
068°

KIZNA TWO DEPARTURE

H6R00  
261455.3N  
1273836.2E

500

500

500

VORTAC  
NAHA  
116.5 NHC  
CH-112X  
26°12'31"N 127°38'34"E  
100FT

TACAN  
CHINEN  
1176 TIT  
CH-89X  
26°09'38"N 127°48'04"E  
500FT

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

KIZNA TWO DEPARTURE

RWY18L/18R: (Not established)

RWY36R : Climb on HDG003° at or above 500FT, direct to H6R00, turn left direct to KIZNA .

RWY36L : Climb on HDG003° at or above 500FT, turn left direct to KIZNA .

NOTE RWY36R/36L: 5.0% climb gradient required up to 500FT.

RESORT TRANSITION

From KIZNA, to OKUMA.

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/ NAHA

RNAV SID and TRANSITION

KIZNA TWO DEPARTURE

## RWY36R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1

## RWY36L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1

RESORT TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	OKUMA	-	068 (062.7)	-5.6	30.8	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

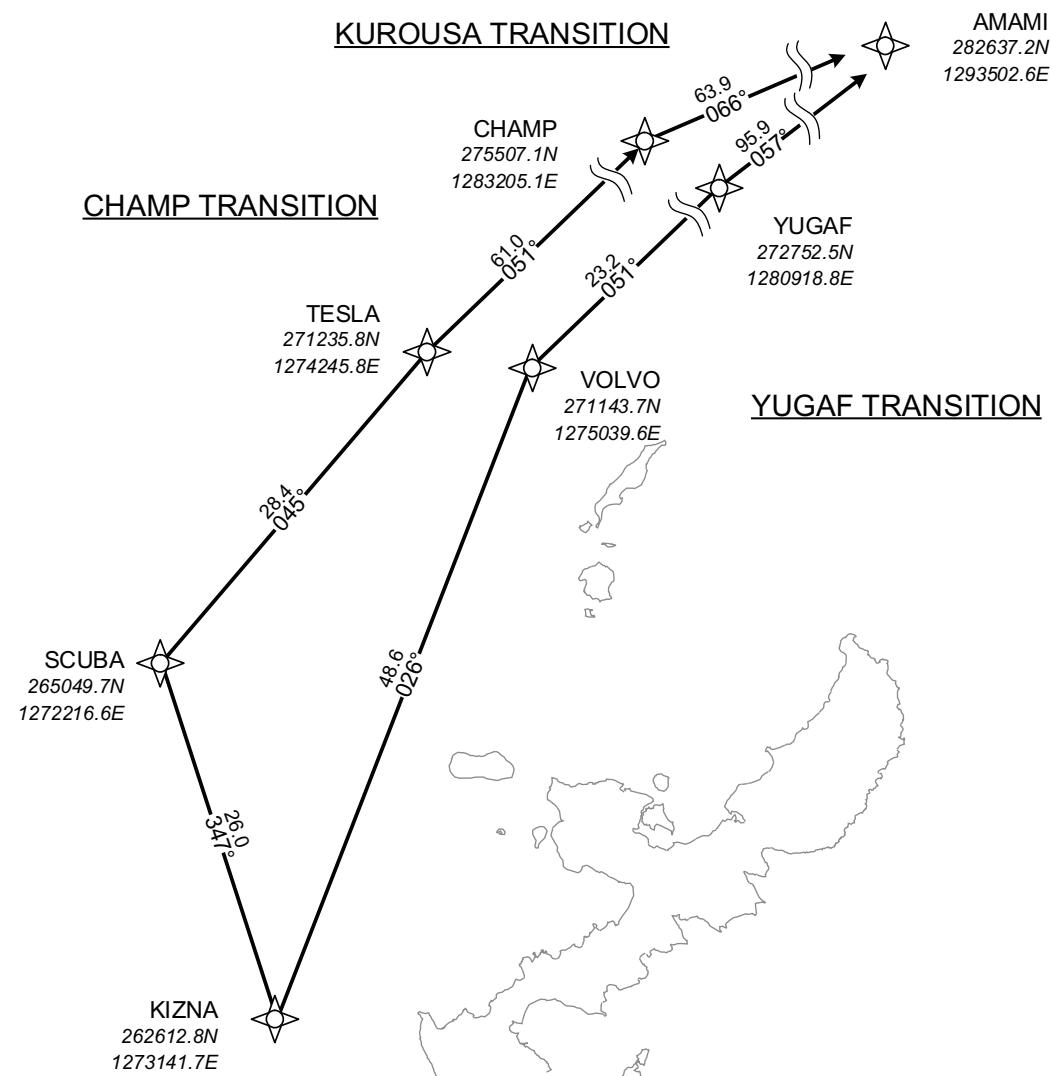
RNAV TRANSITION

KUROUSA TRANSITION  
CHAMP TRANSITION  
YUGAF TRANSITION

RNP1

Note GNSS required.

VAR 6°W



CHANGE : Navigation Specification(Basic RNP1 → RNP1).

**KUROUSA TRANSITION**

From KIZNA, to SCUBA, to TESLA, to CHAMP, to AMAMI.

**CHAMP TRANSITION**

From KIZNA, to SCUBA, to TESLA, to CHAMP.

**YUGAF TRANSITION**

From KIZNA, to VOLVO, to YUGAF, to AMAMI.

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV TRANSITION

KUROUSA TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	RNP1
005	TF	AMAMI	-	066 (060.2)	-5.6	63.9	-	-	-	-	RNP1

CHAMP TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	RNP1

YUGAF TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIZNA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	VOLVO	-	026 (020.3)	-5.6	48.6	-	-	-	-	RNP1
003	TF	YUGAF	-	051 (045.7)	-5.6	23.2	-	-	-	-	RNP1
004	TF	AMAMI	-	057 (051.9)	-5.6	95.9	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD DEPARTURE CHART-INSTRUMENT

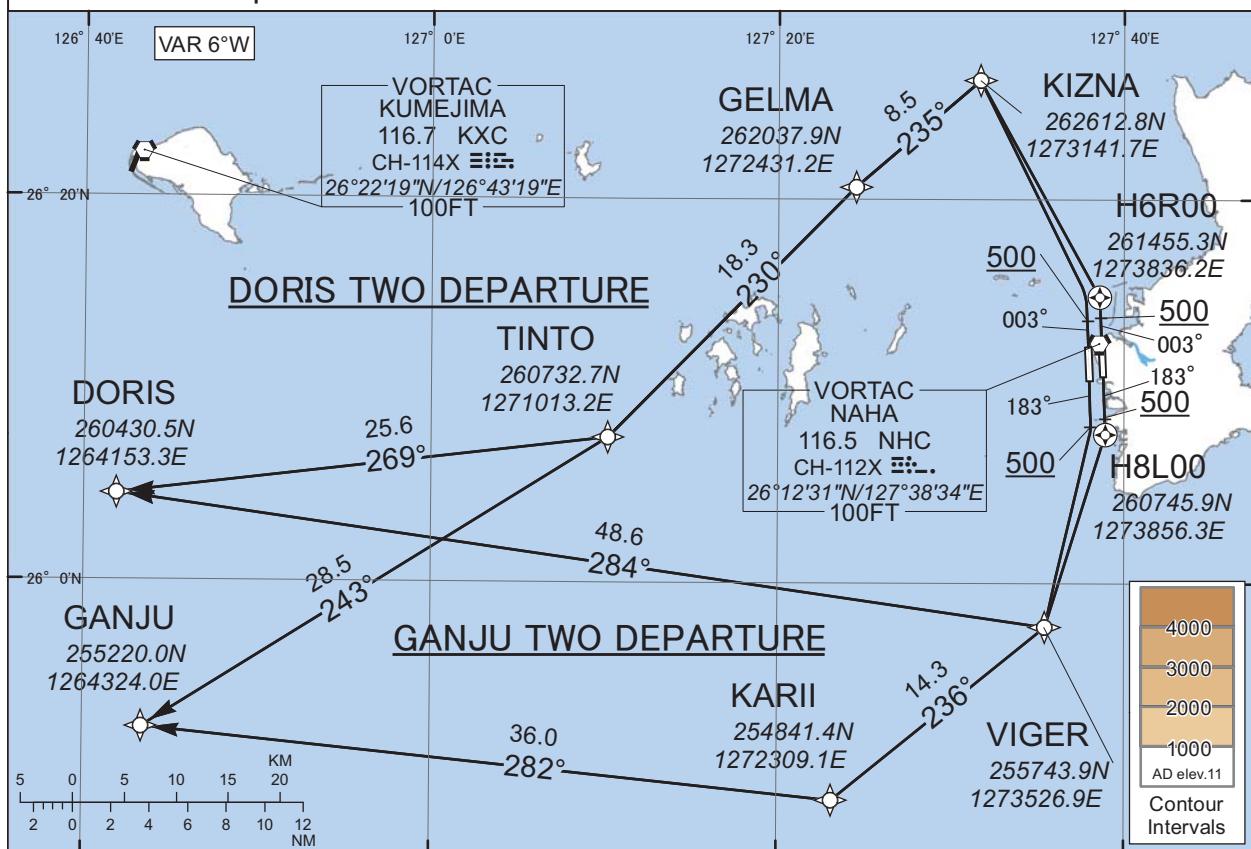
ROAH / NAHA

RNAV SID

DORIS TWO DEPARTURE / GANJU TWO DEPARTURE

RNP1

Note GNSS required.



### DORIS TWO DEPARTURE

RWY18L : Climb on HDG183° at or above 500FT, direct to H8L00, turn right direct to VIGER, to DORIS.

RWY18R : Climb on HDG183° at or above 500FT, turn right direct to VIGER, to DORIS.

RWY36R : Climb on HDG003° at or above 500FT, direct to H6R00, turn left direct to KIZNA, to GELMA, to TINTO, to DORIS.

RWY36L : Climb on HDG003° at or above 500FT, turn left direct to KIZNA, to GELMA, to TINTO, to DORIS.

Note RWY36R/36L : 5.0% climb gradient required up to 500FT.

### GANJU TWO DEPARTURE

RWY18L : Climb on HDG183° at or above 500FT, direct to H8L00, turn right direct to VIGER, to KARII, to GANJU.

RWY18R : Climb on HDG183° at or above 500FT, turn right direct to VIGER, to KARII, to GANJU.

RWY36R : Climb on HDG003° at or above 500FT, direct to H6R00, turn left direct to KIZNA, to GELMA, to TINTO, to GANJU.

RWY36L : Climb on HDG003° at or above 500FT, turn left direct to KIZNA, to GELMA, to TINTO, to GANJU.

Note RWY36R/36L : 5.0% climb gradient required up to 500FT.

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

DORIS TWO DEPARTURE

## RWY18L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
004	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	RNP1

## RWY18R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
003	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	RNP1

## RWY36R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
006	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	RNP1

## RWY36L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
005	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1)

## STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

GANJU TWO DEPARTURE

## RWY18L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
004	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	RNP1
005	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	RNP1

## RWY18R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	183 (177.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNP1
003	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	RNP1
004	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	RNP1

## RWY36R

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
006	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	RNP1

## RWY36L

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNP1
005	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1)

STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

STAR

SCUBA ARRIVAL

From over SCUBA, via NHC R344 to 28.1 DME, turn right to intercept and proceed via NHC R341 to EISAR.

Cross NHC R344/28.1DME at or above 3000FT, cross EISAR at or above 2000FT.

LAVON ARRIVAL

From over LAVON, via NHC 15.0DME counterclockwise ARC to VIGER.

Cross VIGER at or above 2000FT.

(When using NHC TACAN only)

From over LAVON at or above 5000FT, via NHC 15.0DME counterclockwise ARC to VIGER.

Cross VIGER at or above 4400FT.

LAFTY ARRIVAL

From over LAFTY, via NHC R196 to VIGER.

Cross VIGER at or above 2000FT.

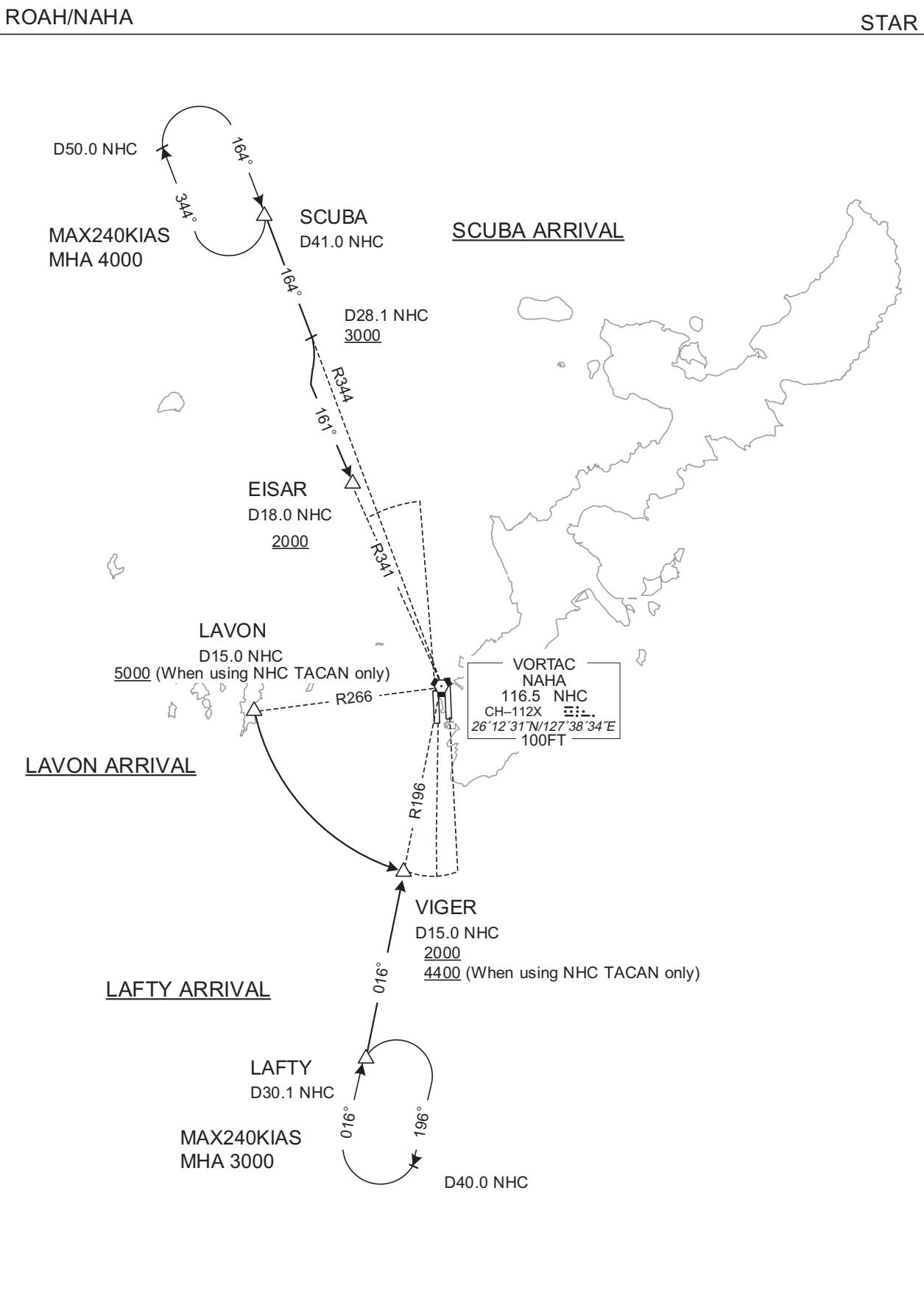
(When using NHC TACAN only)

From over LAFTY, via NHC R196 to VIGER.

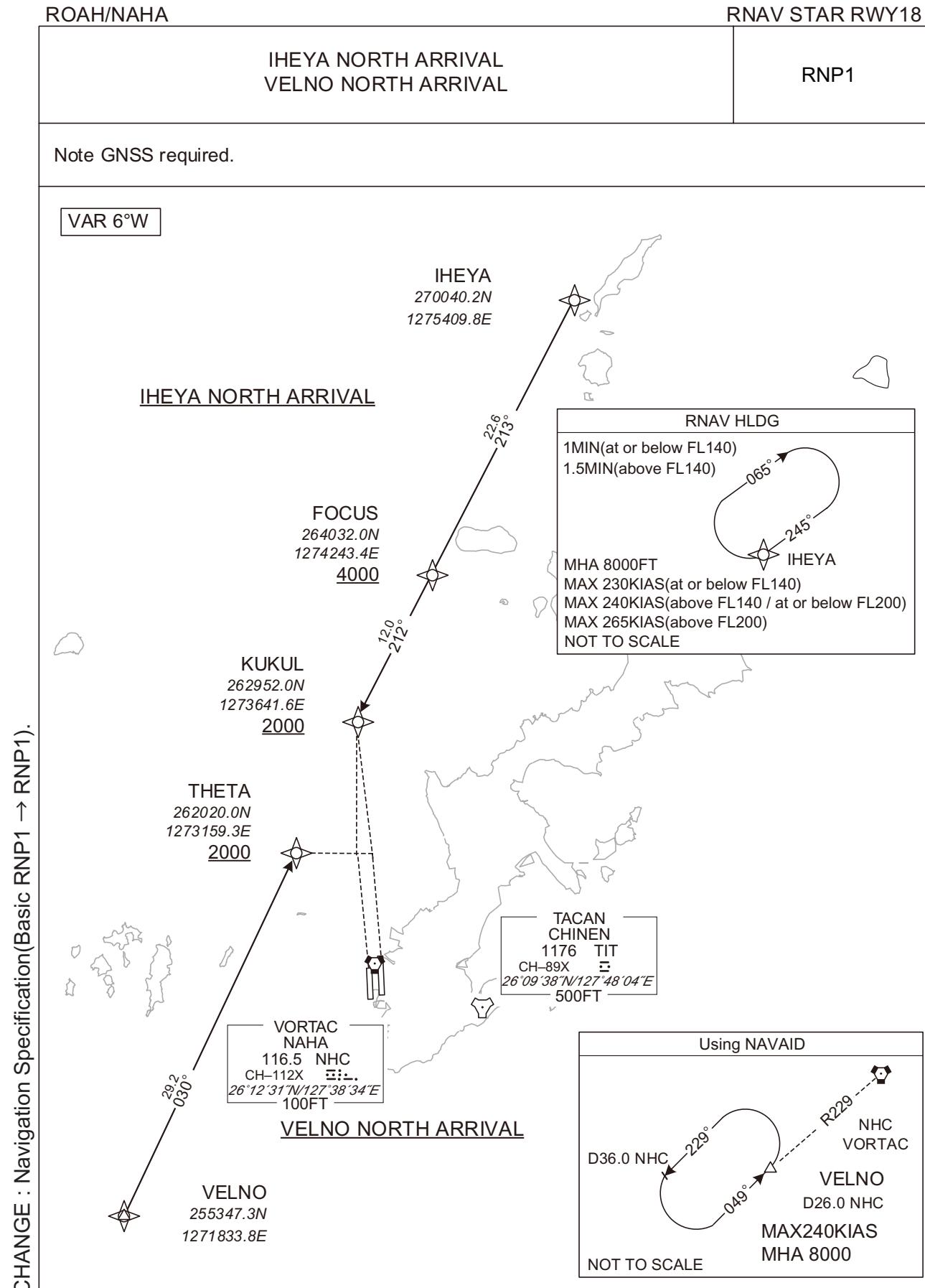
Cross VIGER at or above 4400FT.

CHANGE: New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY18

IHEYA NORTH ARRIVAL

From IHEYA, to FOCUS at or above 4000FT, to KUKUL at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	IHEYA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	FOCUS	-	213 (206.9)	-5.6	22.6	-	+4000	-	-	RNP1
003	TF	KUKUL	-	212 (206.8)	-5.6	12.0	-	+2000	-	-	RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	IHEYA	245 (239.1)	-5.8	1.0 (-14000) 1.5 (+14001)	R	8000	-	-230 (-14000) -240 (14001-20000) -265 (+20001)	RNP1

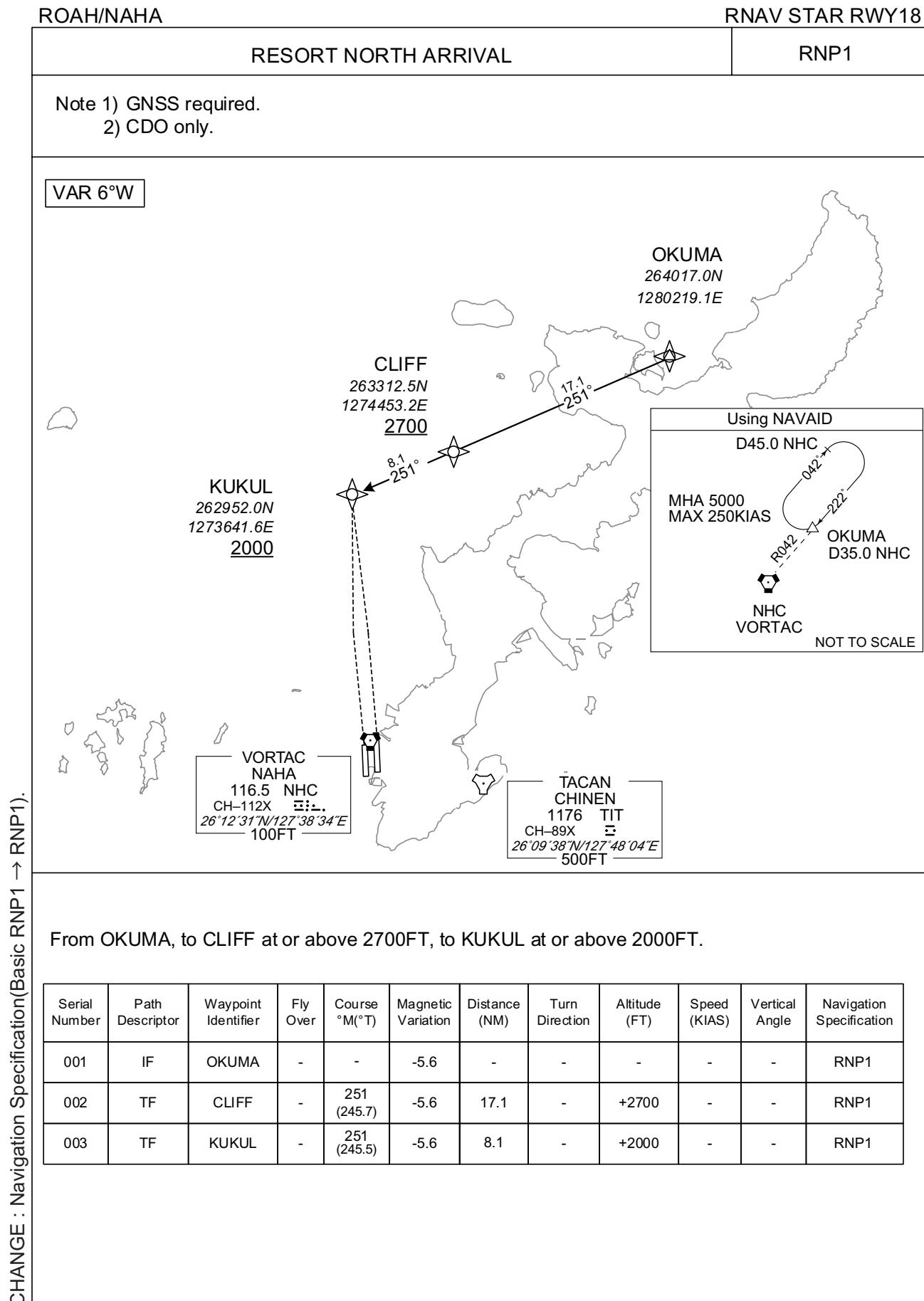
VELNO NORTH ARRIVAL

From VELNO, to THETA at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VELNO	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	THETA	-	030 (024.4)	-5.6	29.2	-	+2000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY18

GUPTI NORTH ARRIVAL  
ENTOK NORTH ARRIVAL

RNP1

Note 1) GNSS required. 2) CDO only.

VAR 6°W

GUPTI  
290124.5N  
1280918.7E  
FL200GUPTI NORTH ARRIVALIHEYA  
270040.2N  
1275409.8EKUKUL  
262952.0N  
1273641.6E  
2000ENTOK  
261914.3N  
1245953.8E  
FL170YEEZY  
262018.1N  
1265032.5E  
2100THETA  
262020.0N  
1273159.3E  
2000ENTOK NORTH ARRIVAL

VORTAC  
NAHA  
116.5 NHC  
CH-112X   
26°12'31"N/127°38'34"E  
100FT

TACAN  
CHINEN  
1176 TIT  
CH-89X   
26°09'38"N/127°48'04"E  
500FT

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY18

GUPTI NORTH ARRIVAL

From GUPTI at or above FL200, to IHEYA, to KUKUL at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GUPTI	-	-	-5.6	-	-	+FL200	-	-	RNP1
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	RNP1
003	TF	KUKUL	-	213 (206.9)	-5.6	34.6	-	+2000	-	-	RNP1

ENTOK NORTH ARRIVAL

From ENTOK at or above FL170, to YEEZY at or above 2100FT, to THETA at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.6	-	-	+FL170	-	-	RNP1
002	TF	YEEZY	-	095 (089.0)	-5.6	99.2	-	+2100	-	-	RNP1
003	TF	THETA	-	095 (089.8)	-5.6	37.2	-	+2000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

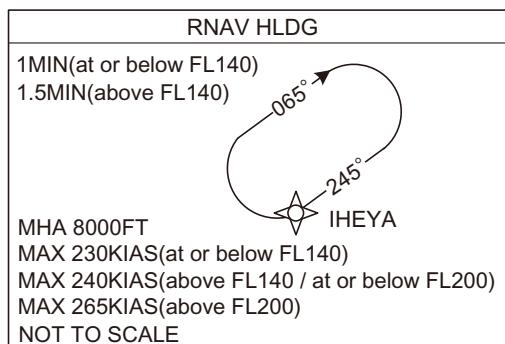
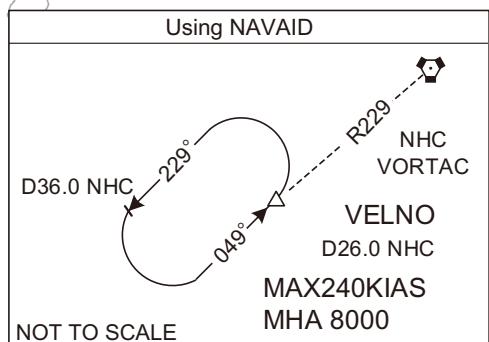
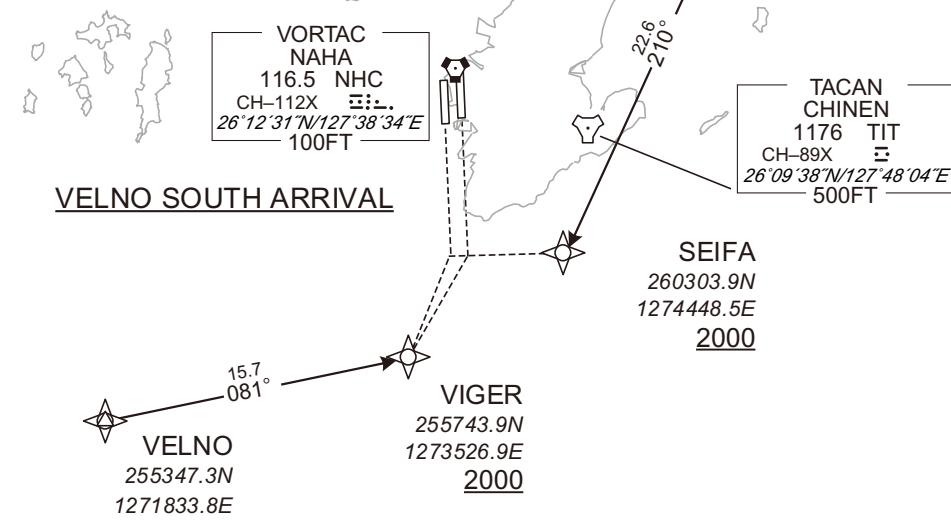
RNAV STAR RWY36

IHEYA SOUTH ARRIVAL  
VELNO SOUTH ARRIVAL

RNP1

Note GNSS required.

VAR 6°W

IHEYA  
270040.2N  
1275409.8EIHEYA SOUTH ARRIVALHASSA  
262334.1N  
1275516.0E  
11000

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY36

IHEYA SOUTH ARRIVAL

From IHEYA, to HASSA at or above 11000FT, to SEIFA at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	IHEYA	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	HASSA	-	184 (178.5)	-5.6	37.1	-	+11000	-	-	RNP1
003	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	IHEYA	245 (239.1)	-5.8	1.0 (-14000) 1.5 (+14001)	R	8000	-	-230 (-14000) -240 (14001-20000) -265 (+20001)	RNP1

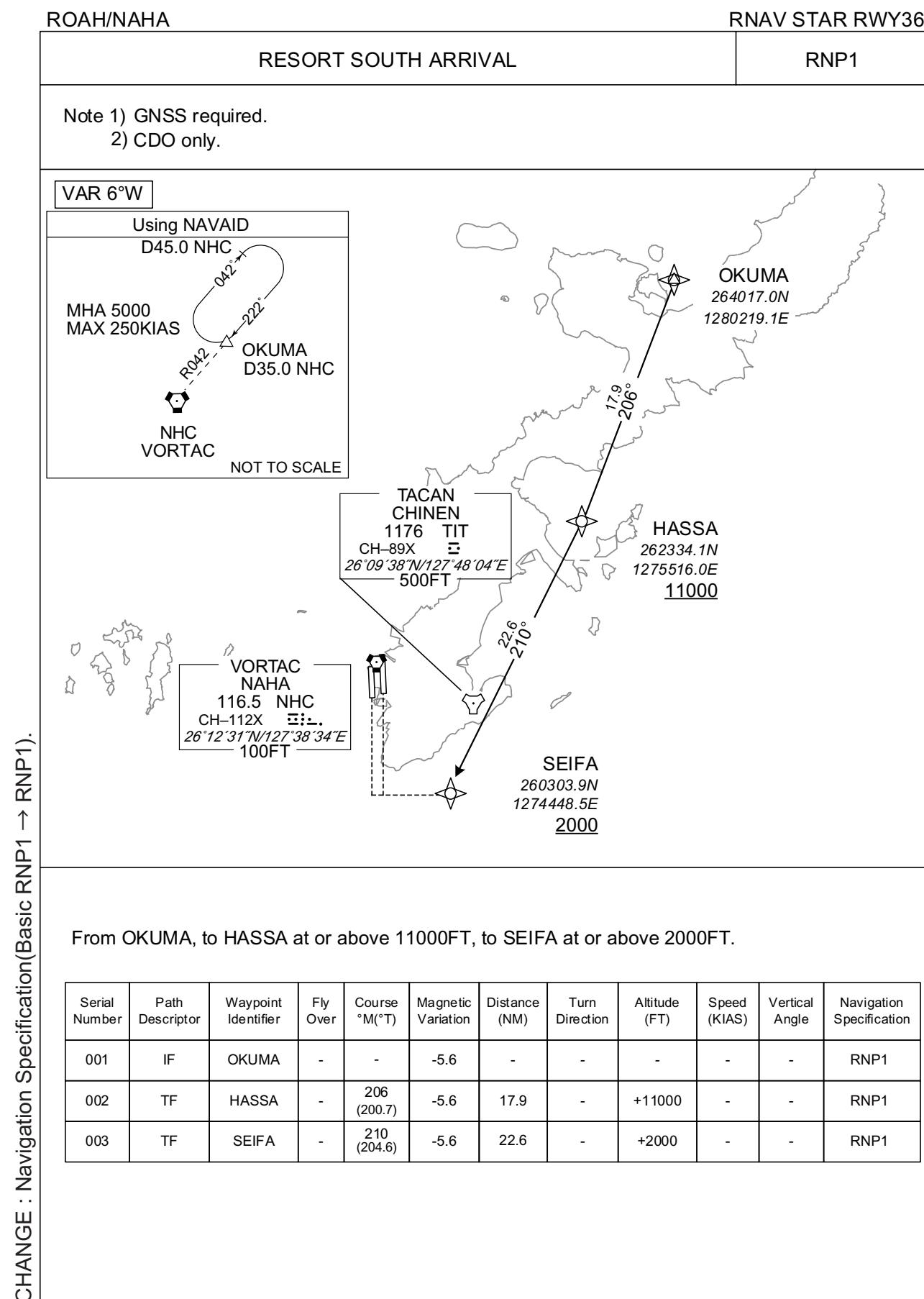
VELNO SOUTH ARRIVAL

From VELNO, to VIGER at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VELNO	-	-	-5.6	-	-	-	-	-	RNP1
002	TF	VIGER	-	081 (075.4)	-5.6	15.7	-	+2000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

## STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY36

GUPTI SOUTH ARRIVAL  
ENTOK SOUTH ARRIVAL

RNP1

Note 1) GNSS required. 2) CDO only.

VAR 6°W

GUPTI  
290124.5N  
1280918.7E  
FL200

GUPTI SOUTH ARRIVAL

IHEYA  
270040.2N  
1275409.8E



ENTOK SOUTH ARRIVAL

TACAN  
CHINEN  
1176 TIT  
CH-89X  
26°09'38"N/127°48'04"E  
500FT

HASSA  
262334.1N  
1275516.0E  
11000

VORTAC  
NAHA  
116.5 NHC  
CH-112X  
26°12'31"N/127°38'34"E  
100FT

SEIFA  
260303.9N  
1274448.5E  
2000

ENTOK  
261914.3N  
1245953.8E  
FL170

VIGER  
255743.9N  
1273526.9E  
2000

CHANGE : Navigation Specification(Basic RNP1 → RNP1)

## STANDARD ARRIVAL CHART-INSTRUMENT

ROAH / NAHA

RNAV STAR RWY36

GUPTI SOUTH ARRIVAL

From GUPTI at or above FL200, to IHEYA, to HASSA at or above 11000FT, to SEIFA at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	GUPTI	-	-	-5.6	-	-	+FL200	-	-	RNP1
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	RNP1
003	TF	HASSA	-	184 (178.5)	-5.6	37.1	-	+11000	-	-	RNP1
004	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	RNP1

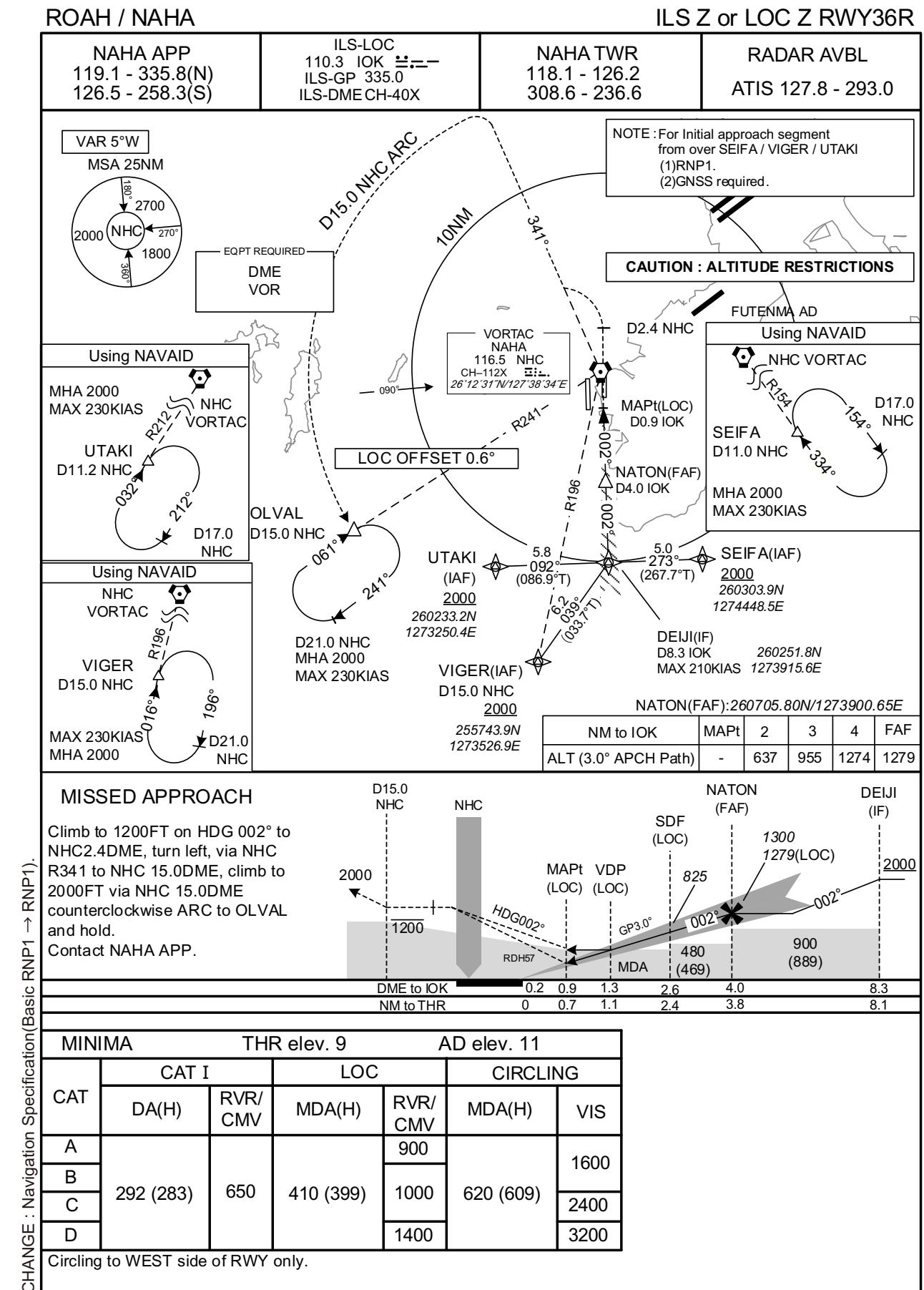
ENTOK SOUTH ARRIVAL

From ENTOK at or above FL170, to VIGER at or above 2000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.6	-	-	+FL170	-	-	RNP1
002	TF	VIGER	-	104 (098.2)	-5.6	141.4	-	+2000	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

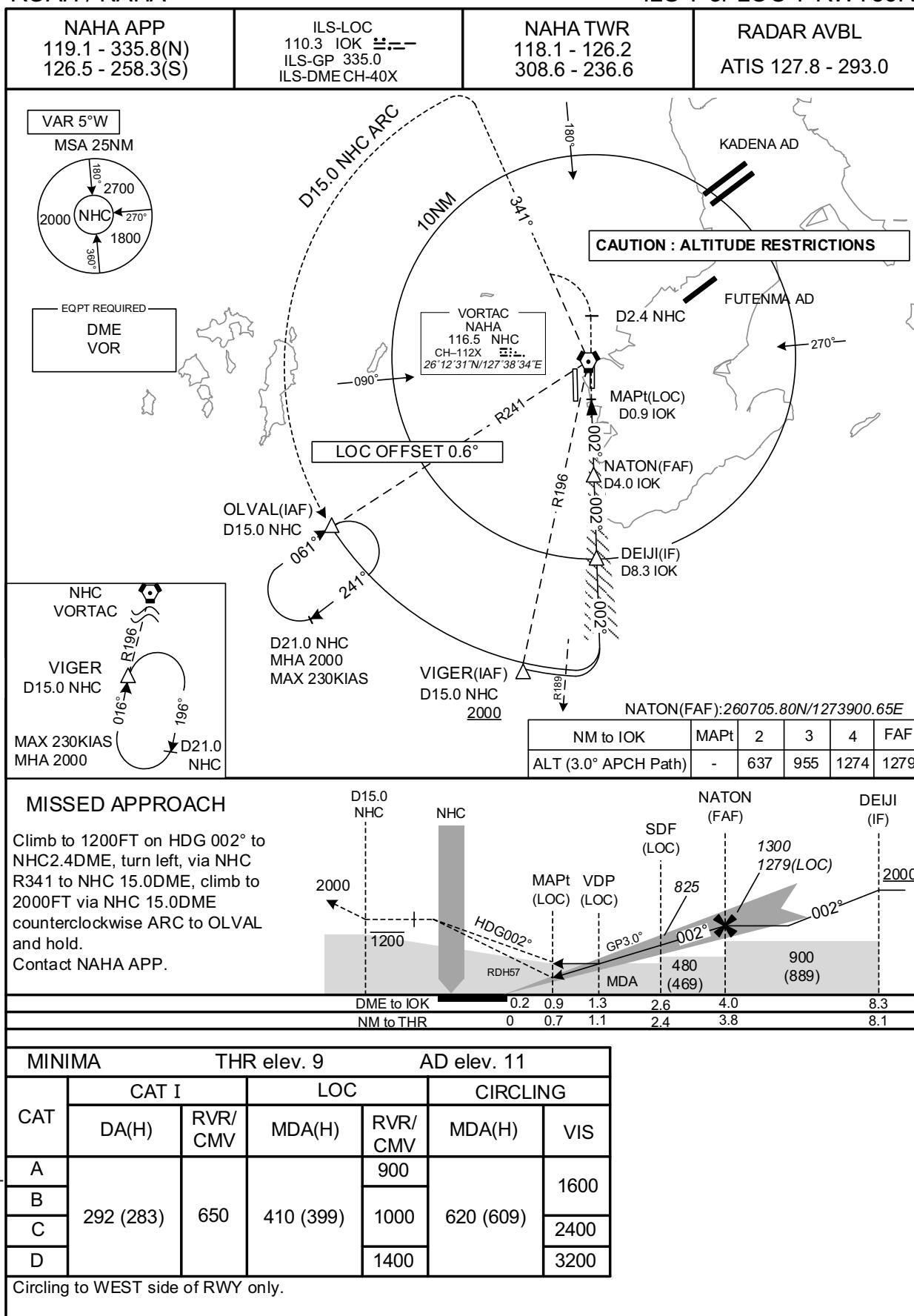
## INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

ROAH / NAHA

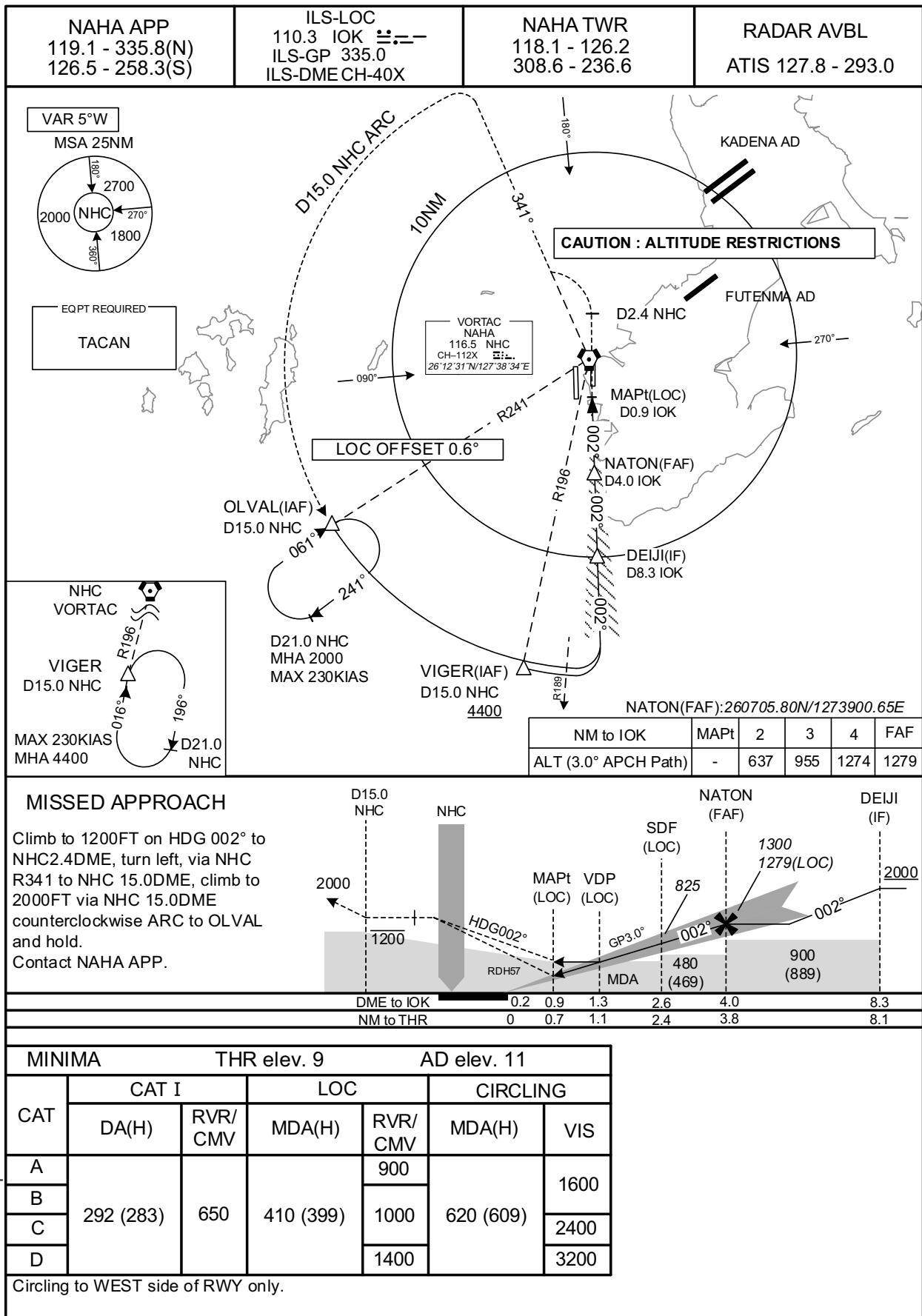
ILS Y or LOC Y RWY36R



## INSTRUMENT APPROACH CHART

ROAH / NAHA

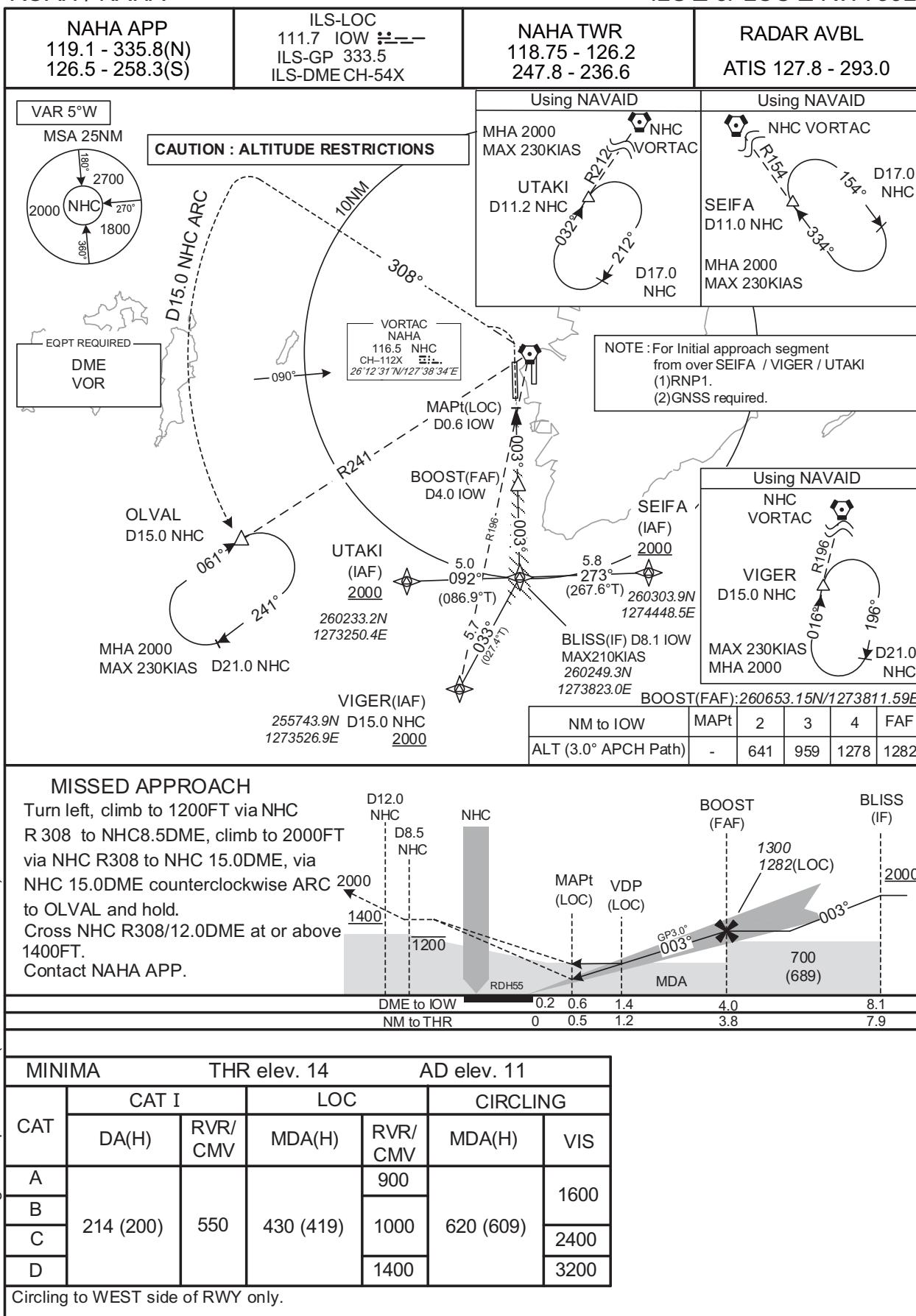
ILS X or LOC X RWY36R



## INSTRUMENT APPROACH CHART

ROAH / NAHA

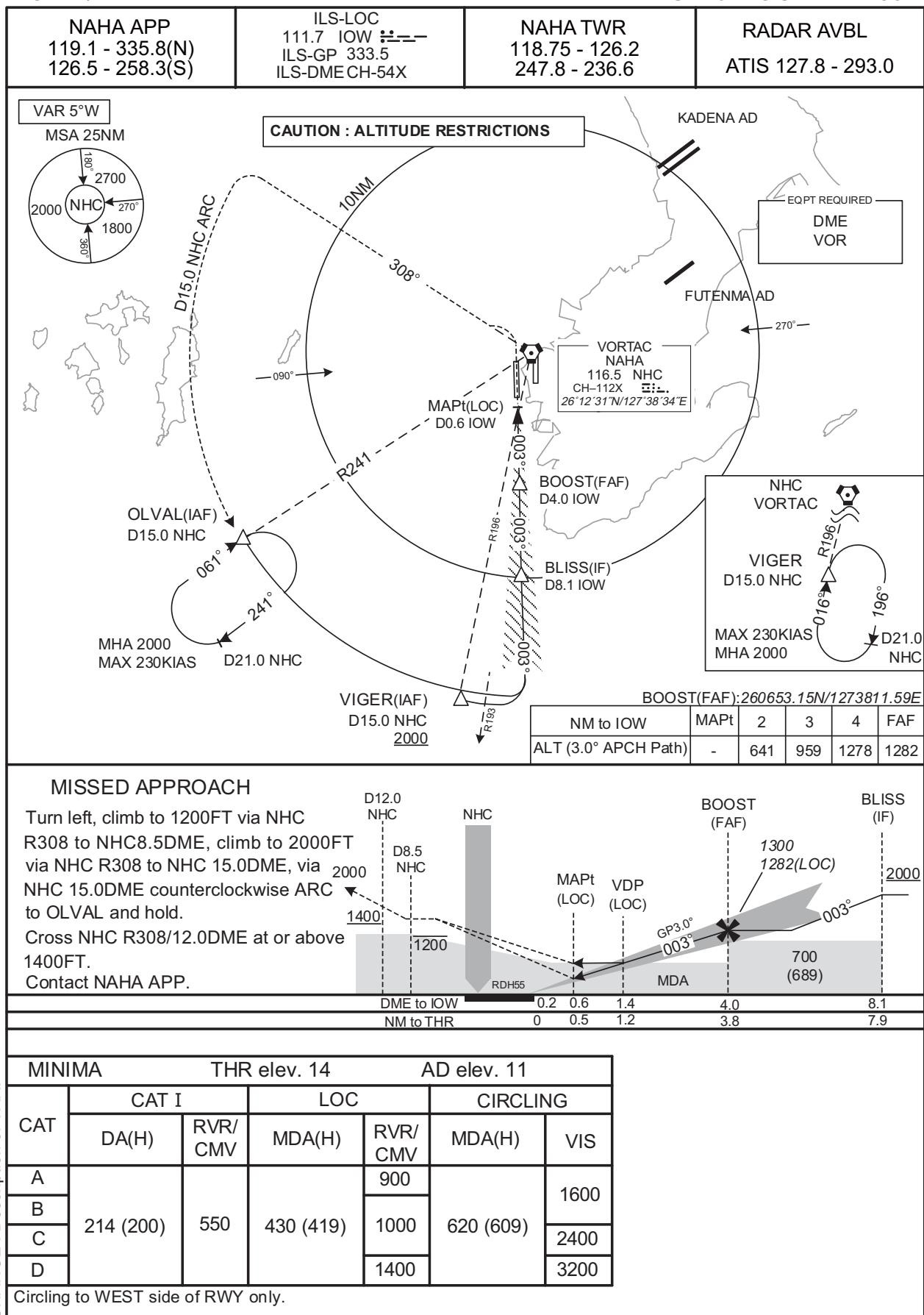
ILS Z or LOC Z RWY36L



## INSTRUMENT APPROACH CHART

ROAH / NAHA

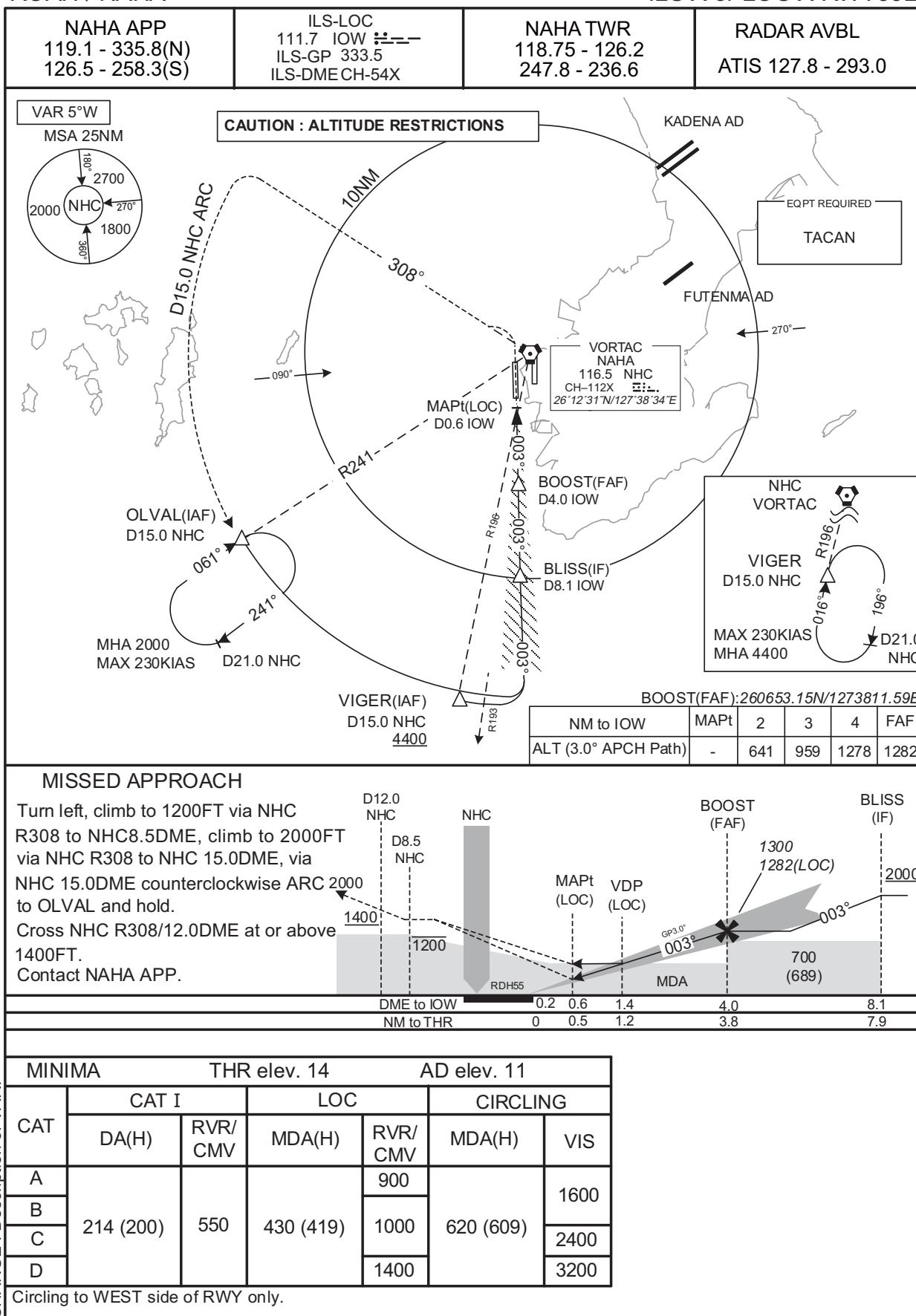
ILS Y or LOC Y RWY36L



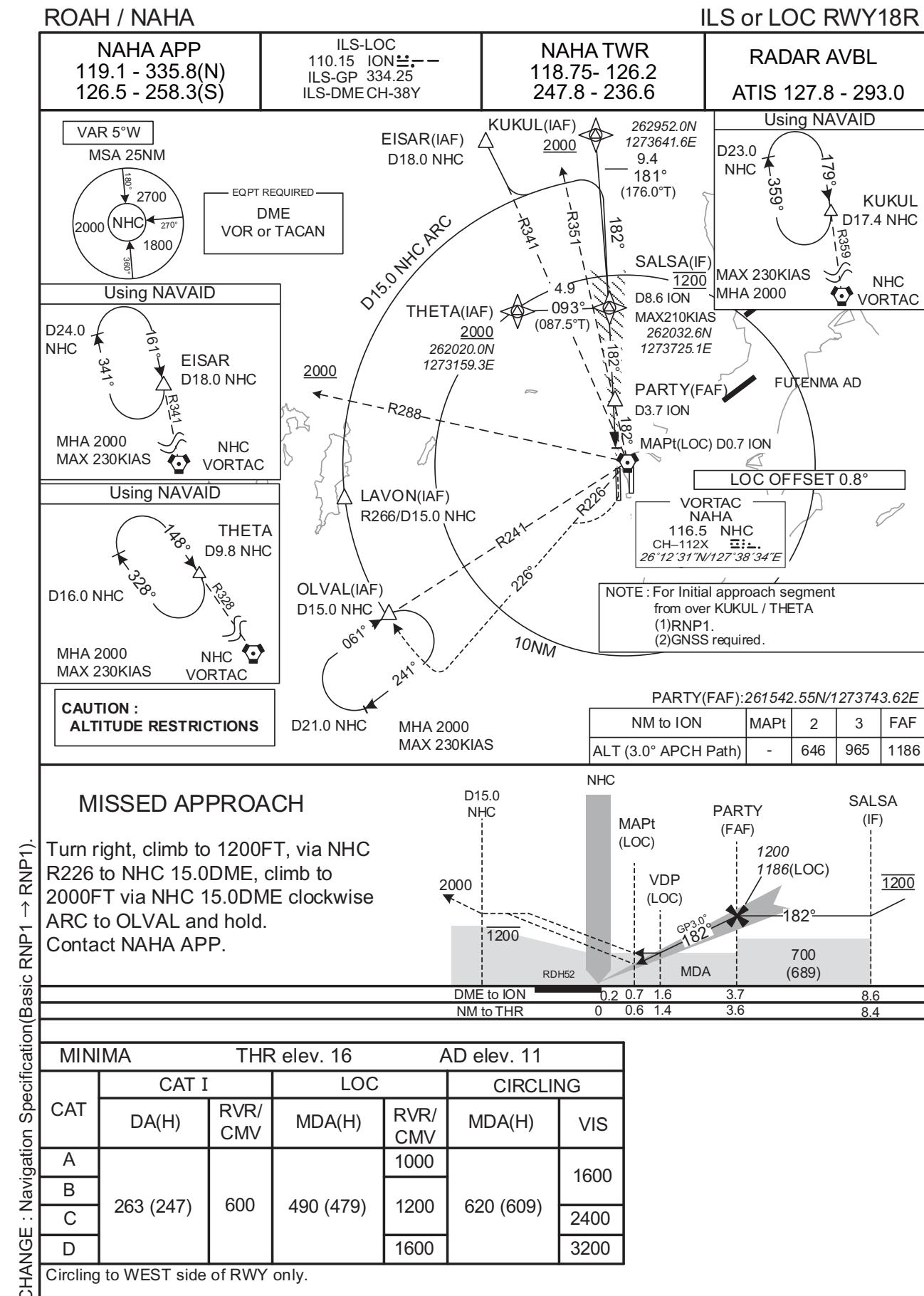
## INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS X or LOC X RWY36L



## INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

ROAH / NAHA

RNP RWY36R

**NAHA APP**  
119.1 - 335.8(N)  
126.5 - 258.3(S)

**RNP APCH**

**NAHA TWR**  
118.1 - 126.2  
308.6 - 236.6

**RADAR AVBL**  
ATIS 127.8 - 293.0

**MSA 25NM**  
Baro-VNAV not authorized below 0°C

**VAR 6°W**

**ARP**  
2700

**ARP: 261136N/1273823E**

**KIZNA**  
8.5 (235°)  
(229.0T)

**GELMA**  
10.6 (197°)  
(191.8T)

**LAVON**  
746 (158.9°)

**OLVAL**  
6.5 (164°)

**CAUTION : ALTITUDE RESTRICTIONS**

**FUTENMA AD**  
H6R00  
VORTAC NAHA  
116.5 NHC  
CH-112X  
26°12'31"N/127°38'34"E

**H6R51(MAPt)**  
003°(357.6°T)/2.0  
003°(357.6°T)/1.5

**H6R50**  
ISIJI(FAF)

**UTAKI (IAF) 2000**  
092° (086.9T)  
5.7

**VIGER (IAF) 2000**  
039° (033.1T)  
6.1

**NAMIE(IF) MAX 210KIAS**  
273° (267.7T)  
5.1

**SEIFA (IAF) 2000**  
273° (267.7T)  
5.1

**NOT TO SCALE**  
**UTAKI**  
033°  
2/3  
1MIN  
MHA 2000  
MAX 230KIAS

**NOT TO SCALE**  
**SEIFA**  
155°  
335°  
1MIN  
MHA 2000  
MAX 230KIAS

**NOT TO SCALE**  
**OLVAL**  
062°  
242°  
1MIN  
MHA 2000  
MAX 230KIAS

**NOT TO SCALE**  
**VIGER**  
016°  
196°  
1MIN  
MHA 2000  
MAX 230KIAS

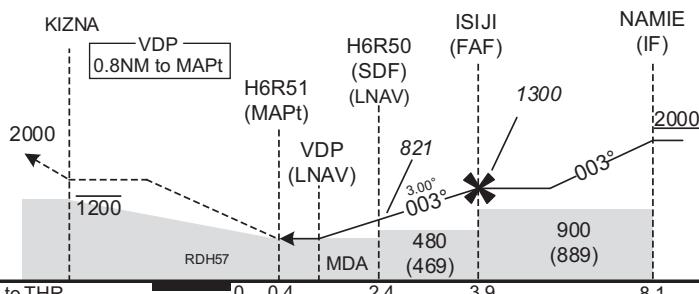
SEIFA(IAF)	260303.88N/1274448.52E
VIGER(IAF)	255743.88N/1273526.92E
UTAKI(IAF)	260233.15N/1273250.37E
NAMIE(IF)	260251.55N/1273910.12E
ISIJI(FAF)	260703.28N/1273858.33E
H6R50	260833.63N/1273854.10E
H6R51(MAPt)	261035.10N/1273848.40E
H6R00	261455.27N/1273836.19E
KIZNA	262612.82N/1273141.71E
GELMA	262037.85N/1272431.22E
LAVON	261013.46N/1272205.31E
OLVAL(MAHF)	260411.00N/1272441.30E

NM to Next Fix	MAPt	1	2	3	FAF
ALT (3.0° APCH Path)	-	497	815	1133	1300

## MISSED APPROACH

Direct to H6R00, turn left direct to KIZNA at or below 1200FT, to GELMA, to LAVON, to OLVAL and hold at 2000FT.

Contact NAHA APP.

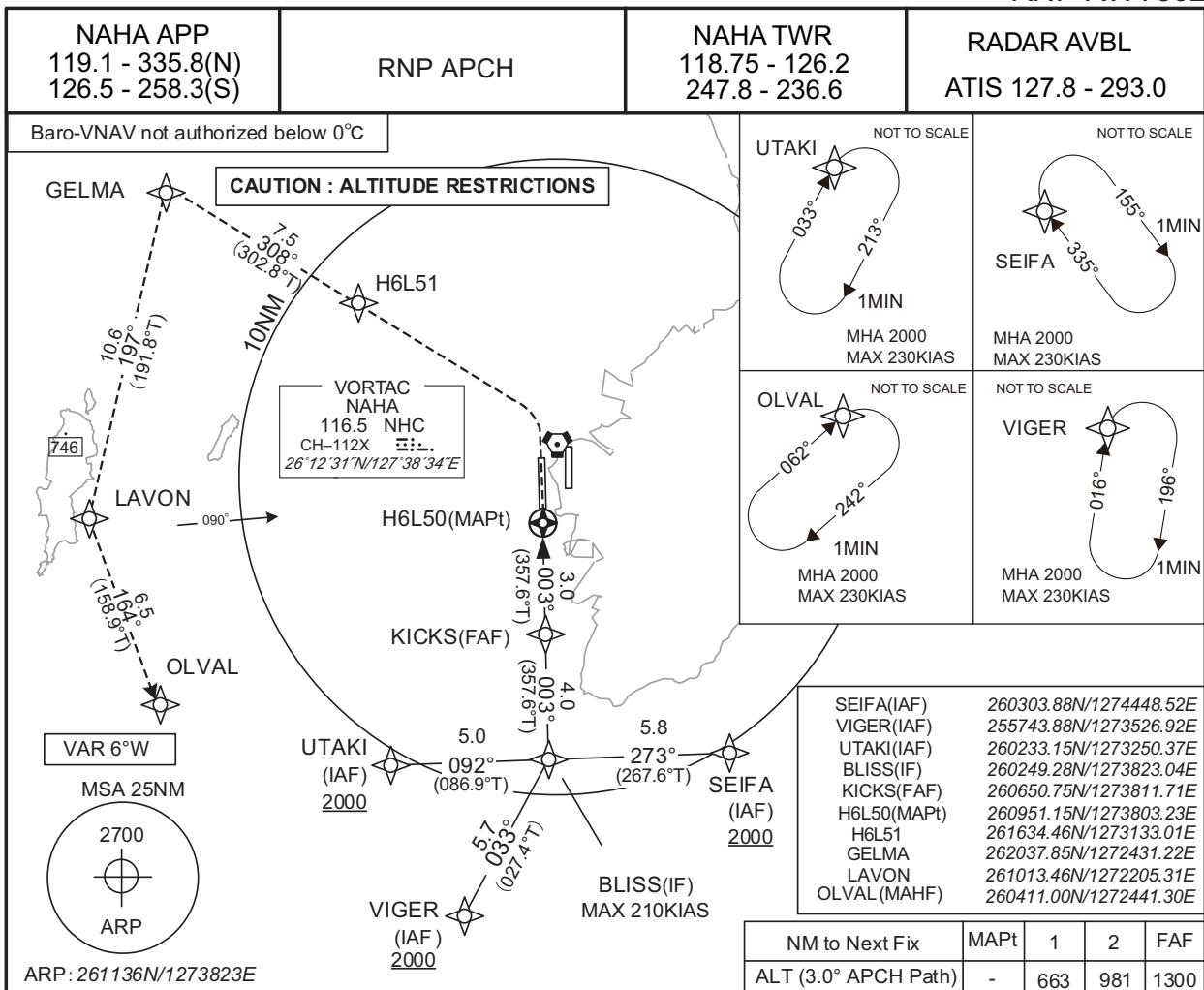


MINIMA		THR elev. 9		AD elev. 11		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	410 (401)	900	410 (399)	900	620 (609)	1600
B		1000		1000		2400
C		1400		1400		3200
D						

## INSTRUMENT APPROACH CHART

## ROAH / NAHA

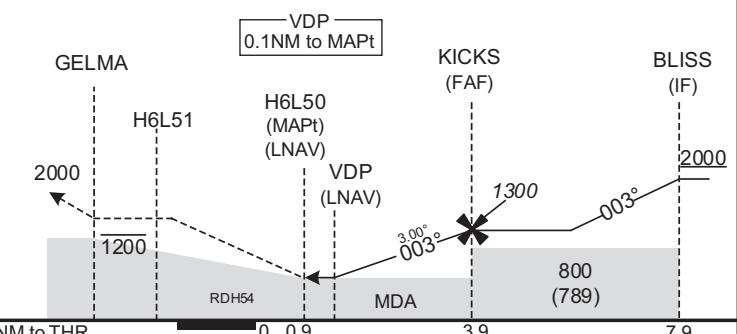
## RNP RWY36L



## MISSED APPROACH

Turn left direct to H6L51, to GELMA at or below 1200FT, to LAVON, to OLVAL and hold at 2000FT.

Contact NAHA APP.



CHANGE : Description of VAR.

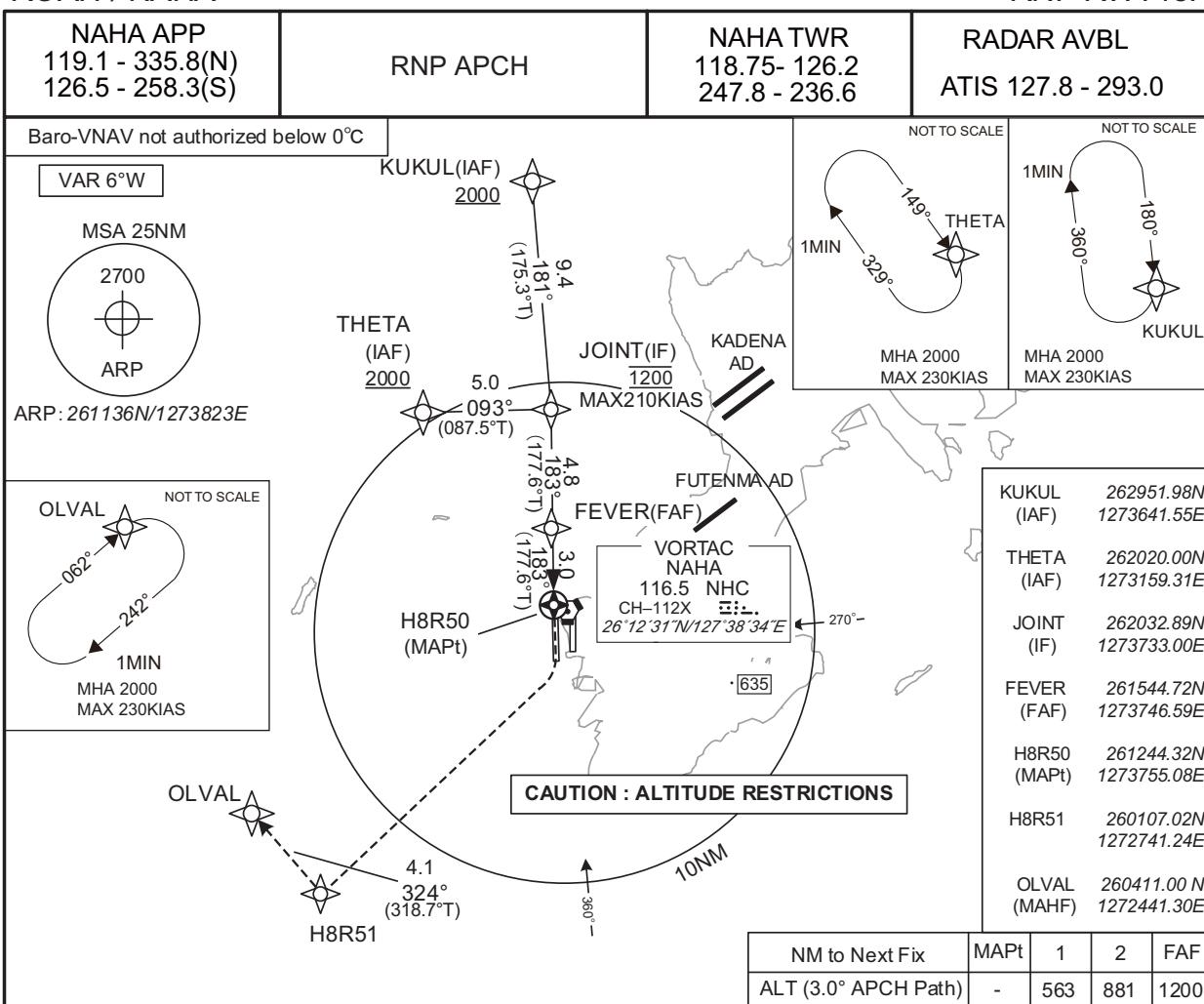
CAT	MINIMA		THR elev. 14		AD elev. 11	
	LNAV/VNAV	RVR/CMV	LNAV	RVR/CMV	CIRCLING	VIS
A	900		900		1600	
B	370 (356)	1000	370 (359)	1000	620 (609)	2400
C				1400		3200
D	1400					

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

## ROAH / NAHA

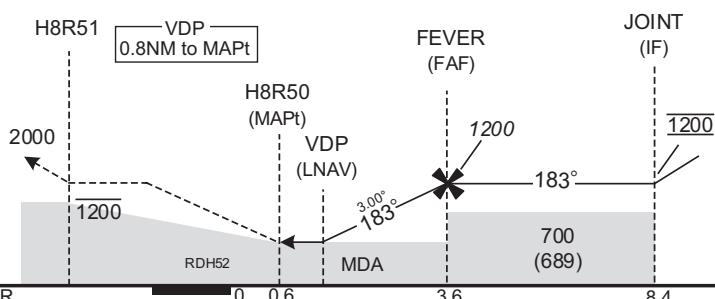
## RNP RWY18R



## MISSSED APPROACH

Turn right direct to H8R51 at or below 1200FT, to OLVAL and hold at 2000FT.

Contact NAHA APP.



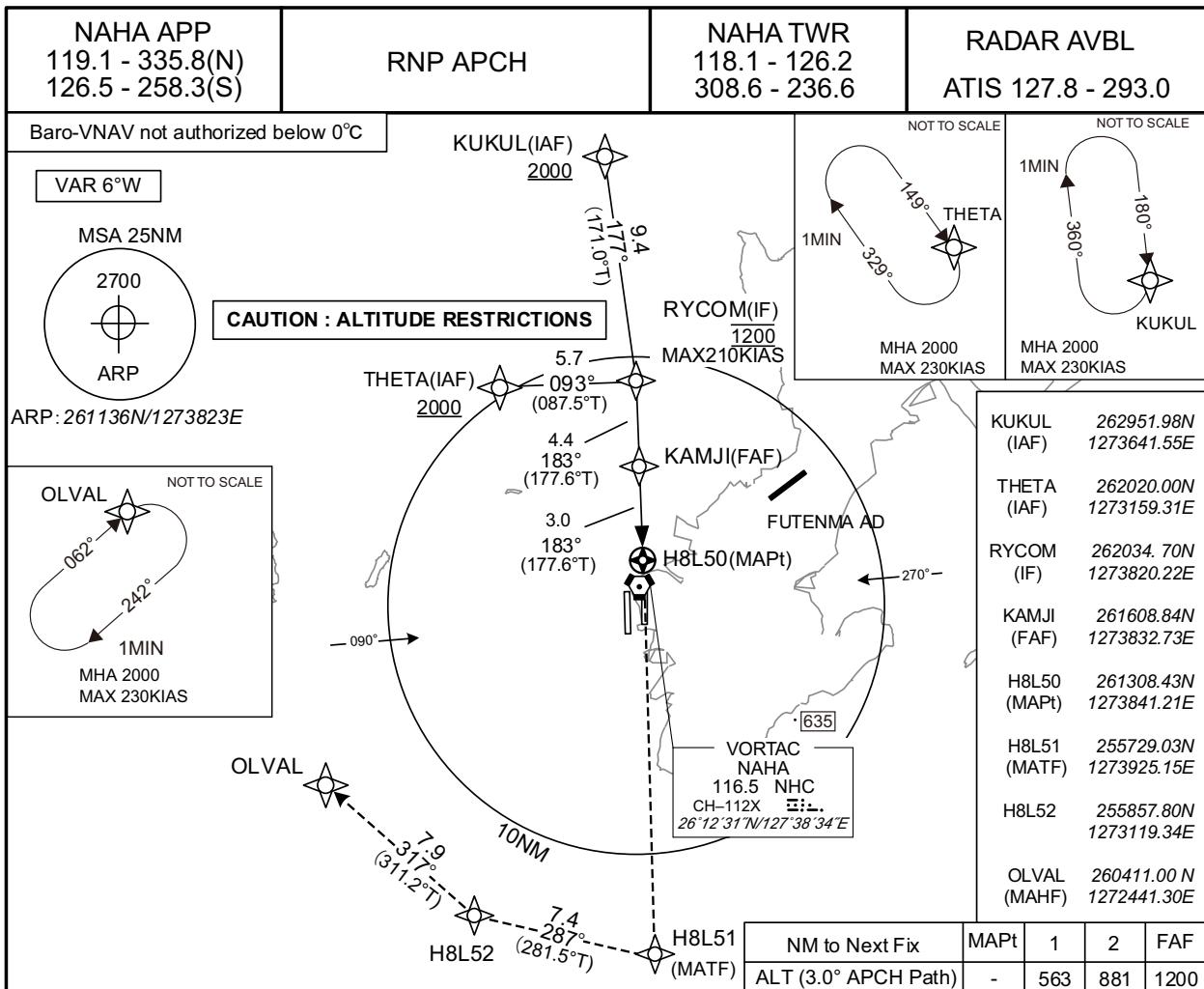
CAT	MINIMA		THR elev. 16		AD elev. 11		CHANGE : Description of VAR.
	LNAV/VNAV	RVR/CMV	LNAV	CIRCLING	MDA(H)	RVR/CMV	
A	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS	
B		1000		1000		1600	
C	490 (474)	1200	490 (479)	1200	620 (609)	2400	
D		1600		1600		3200	

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

## ROAH / NAHA

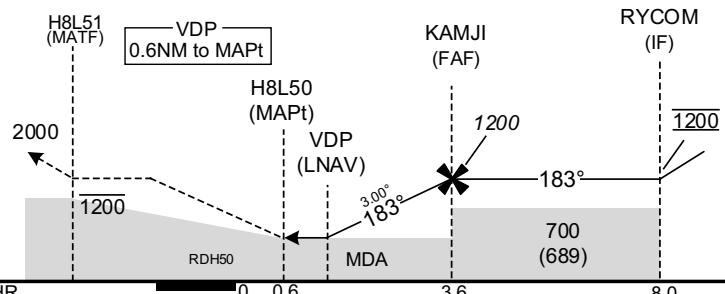
## RNP RWY18L



## MISSED APPROACH

Direct to H8L51 at or below 1200FT, to H8L52, to OLVAL and hold at 2000FT.

Contact NAHA APP.



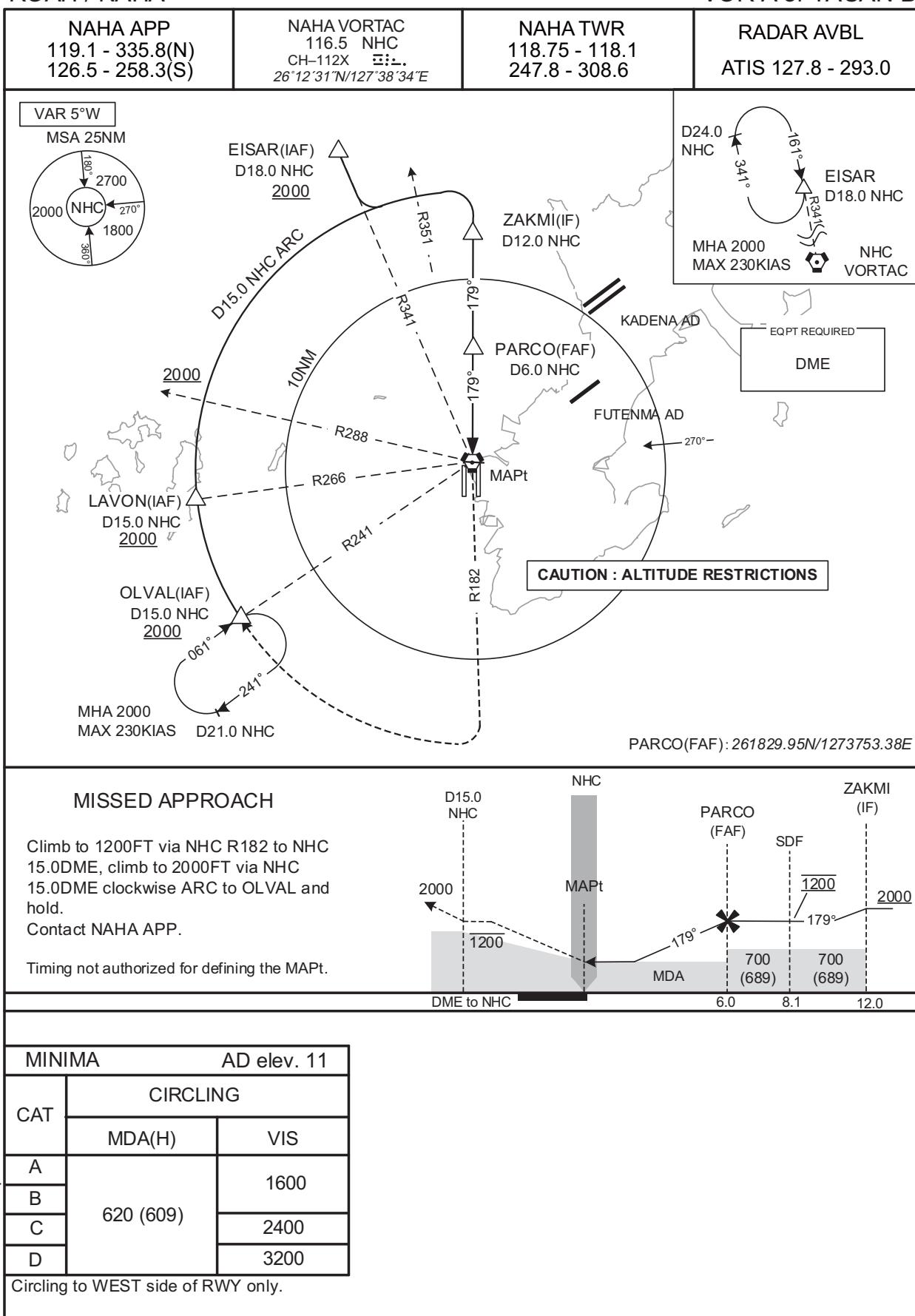
CHANGE : Description of VAR.

CAT	MINIMA		THR elev. 11		AD elev. 11	
	DA(H)	RVR/CMV	LNAV	LNAV	CIRCLING	
A	430 (419)	1200	430 (419)	1200	620 (609)	1600
B		1300		1300		1600
C		1400		1400		2400
D		1600		1600		3200

Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

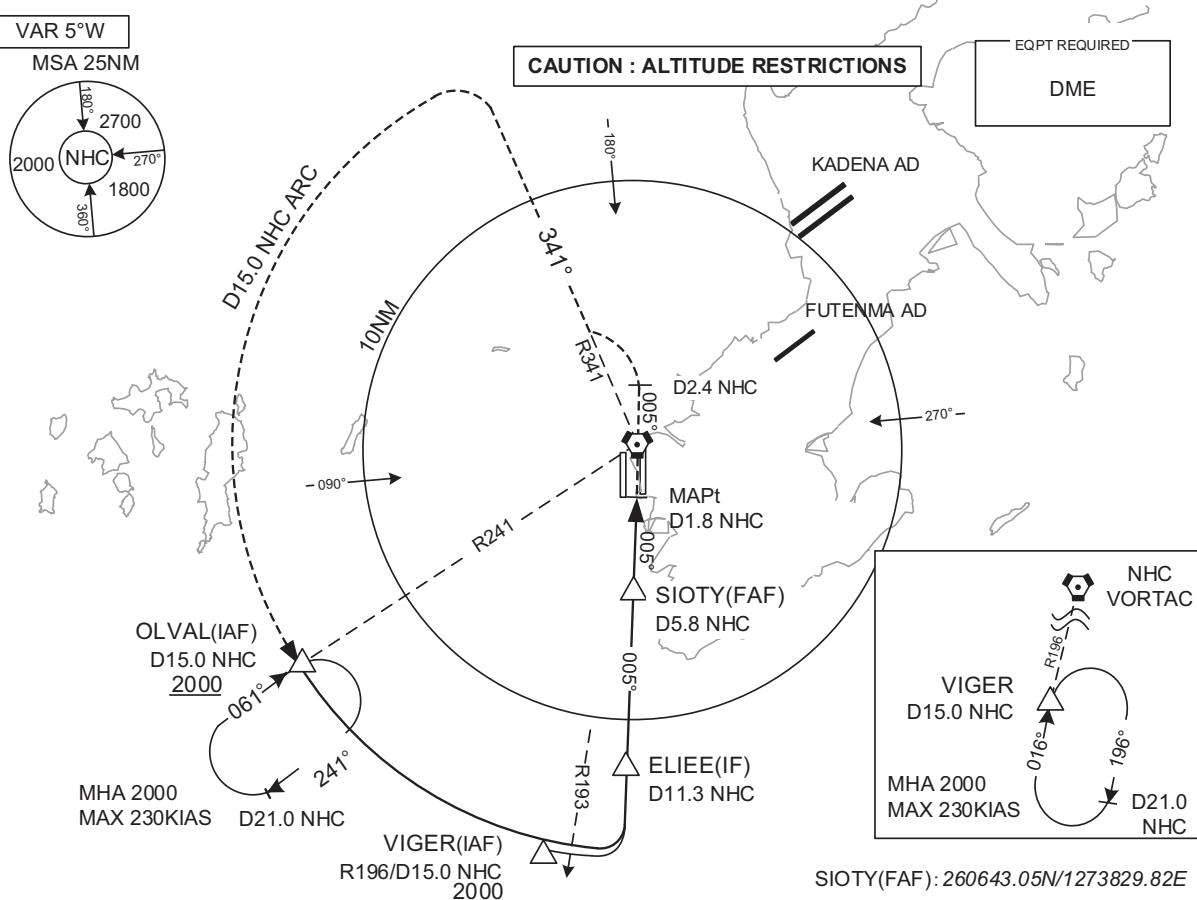


## **INSTRUMENT APPROACH CHART**

ROAH / NAHA

VOR C

NAHA APP 119.1 - 335.8(N) 126.5 - 258.3(S)	NAHA VORTAC 116.5 NHC CH-112X  26°12'31"N/127°38'34"E	NAHA TWR 118.75 - 118.1 247.8 - 308.6	RADAR AVBL ATIS 127.8 - 293.0
--------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------	----------------------------------

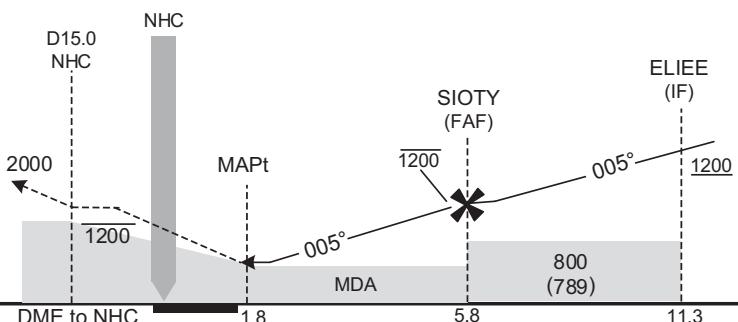


## MISSED APPROACH

Climb to 1200FT via NHC R005 to NHC 2.4DME, turn left proceed via NHC R341 to NHC 15.0DME, climb to 2000FT via NHC 15.0 DME counterclockwise ARC to QLVAL and hold.

Contact NAHA APP

Timing not authorized for defining the MAPt



MINIMA		AD elev. 11
CAT	CIRCLING	
	MDA(H)	VIS
A	620 (609)	1600
B		2400
C		3200
D		

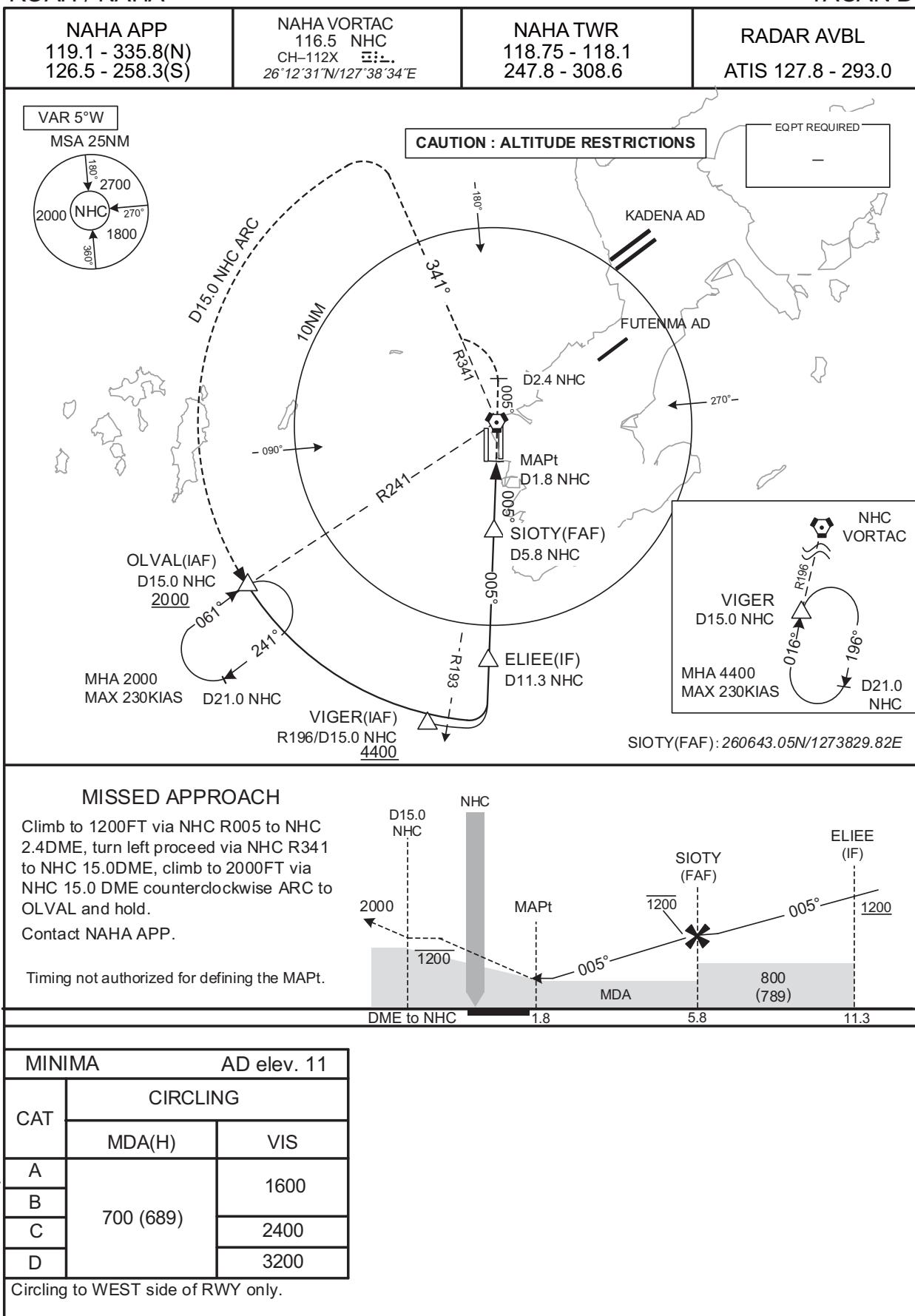
CHANGE : Description of VAR.

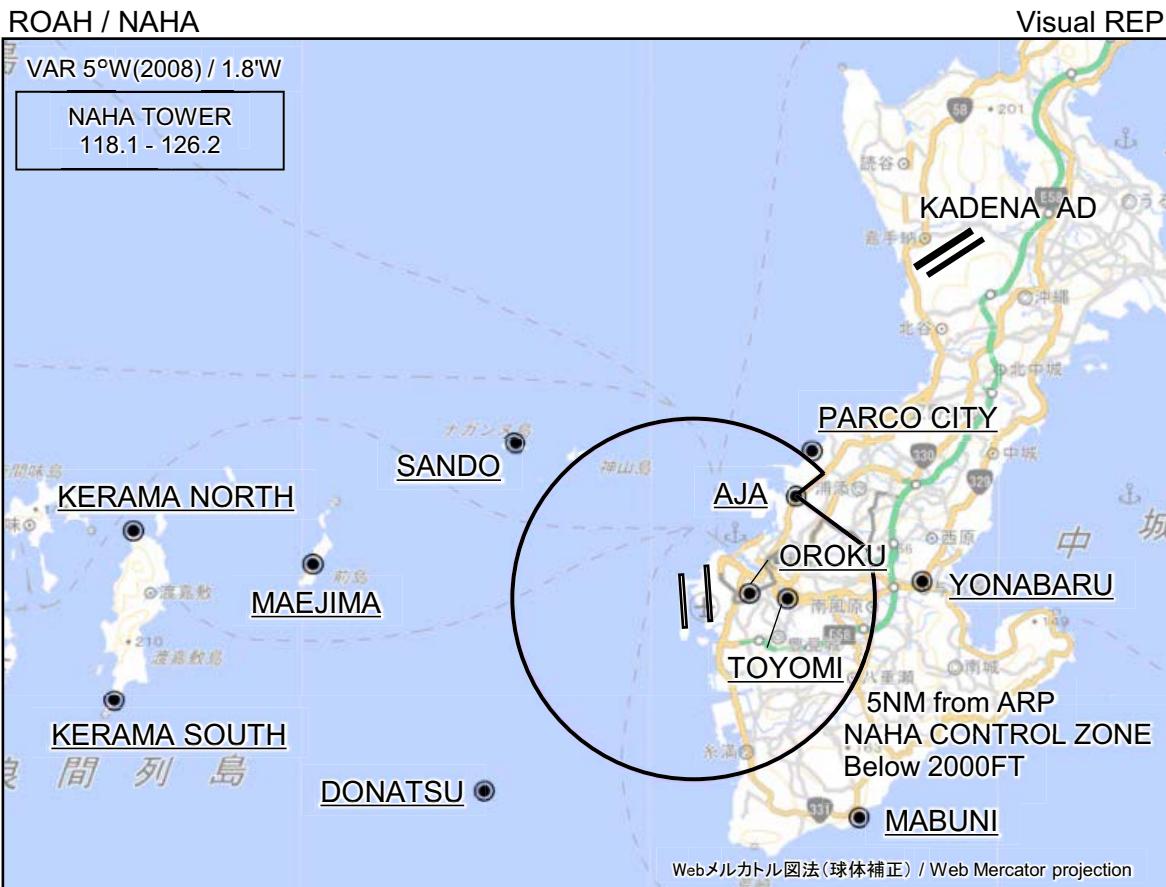
Circling to WEST side of RWY only.

## INSTRUMENT APPROACH CHART

ROAH / NAHA

TACAN D





※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

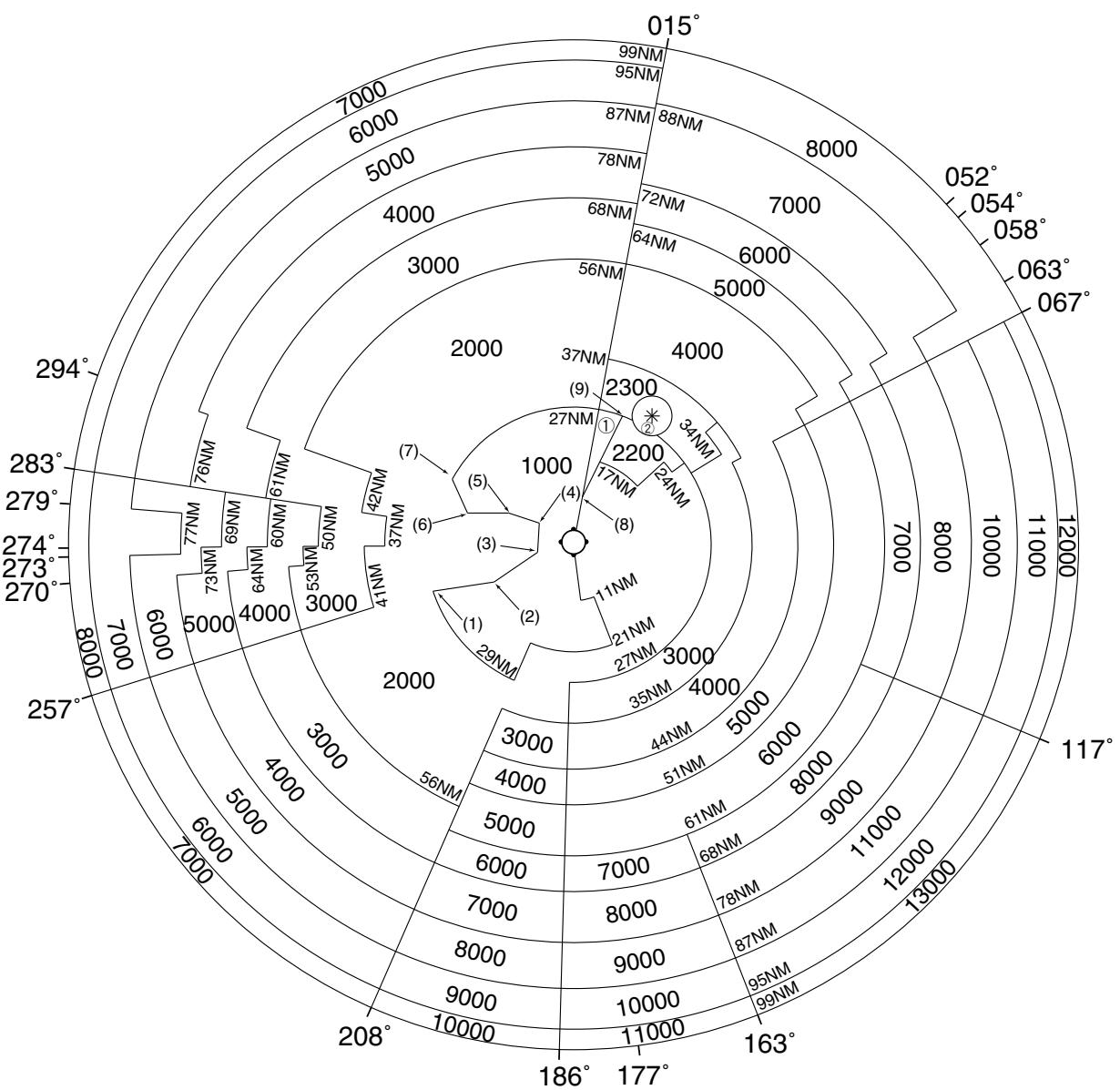
CHANGE : Map updated. BRG/DIST from ARP. Visual REP established(Oroku, Parco City, Toyomi).

Call sign	BRG / DIST from ARP	Remarks
サンド Sando	311°T / 6.6NM	ナガンヌ島 Island
慶良間ノース Kerama North	277°T / 15.4NM	渡嘉敷島北端 North edge of island
前島 Maejima	276°T / 10.5NM	前島 Island
慶良間サウス Kerama South	260°T / 16.1NM	渡嘉敷島南端 South edge of island
ドーナツ Donatsu	227°T / 7.8NM	ルカン礁 Coral reef
パルコシティ Parco City	037°T / 5.2NM	パルコシティ Shopping mall
安謝 Aja	043°T / 4.0NM	国道58号線安謝橋 Bridge
小禄 Oroku	083°T / 1.5NM	モノレール小禄駅 Station
与那原 Yonabaru	085°T / 6.2NM	国道329号線与那原交叉点 Intersection
とよみ Toyomi	090°T / 2.5NM	とよみ大橋と爬龍橋の交点 Intersection
摩文仁 Mabuni	143°T / 7.5NM	平和祈念公園 Park

ROAH / NAHA

Minimum Vectoring Altitude CHART

VAR 5°W (2011)



- ① 1500      (1) 260301N/1270807E      (6) 261829N/1271524E      (11) 263759N/1275528E
- ② 2600      (2) 260459N/1272121E      (7) 262505N/1271157E      * : 263759N/1275528E
- (3) 261057N/1273045E      (8) 262154N/1274025E      RADIUS 3.9NM
- (4) 261640N/1273102E      (9) 263755N/1274900E
- (5) 261835N/1272422E

CENTER: 261231N/1273834E (NHC)

* : 263759N/1275528E

RADIUS 3.9NM