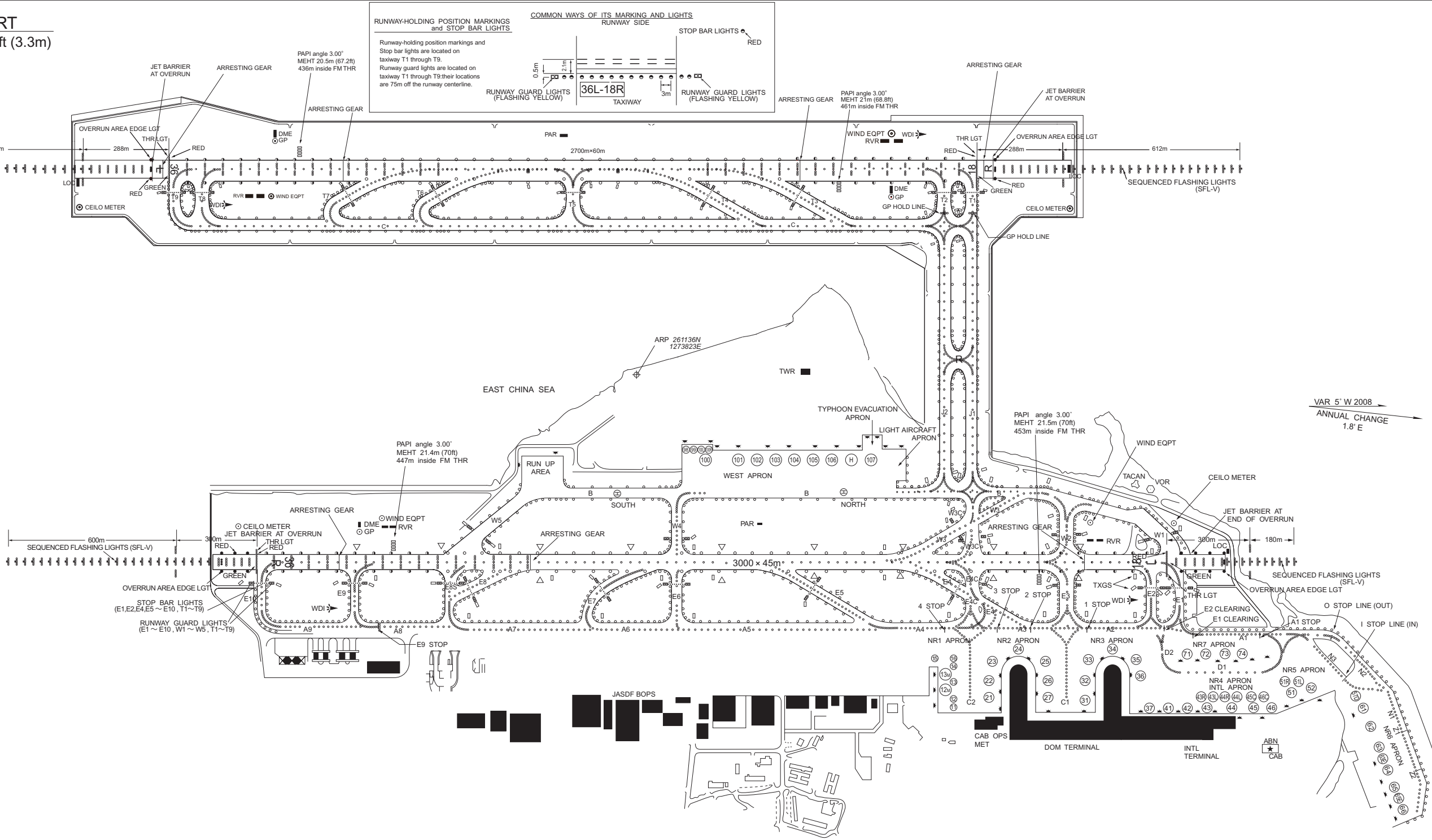
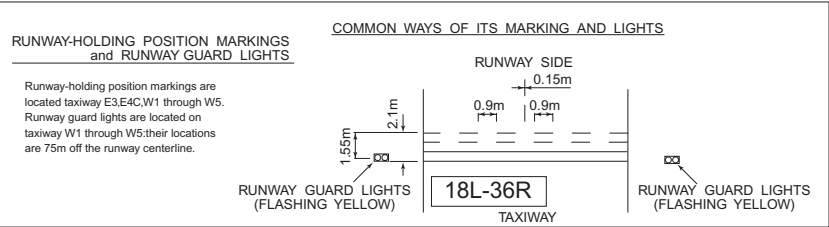
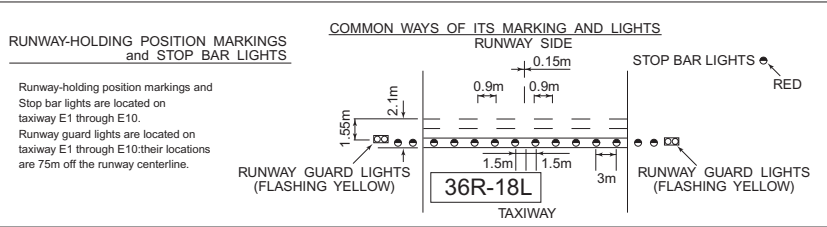


AERODROME CHART

NAHA AIRPORT
ELEV 11ft (3.3m)



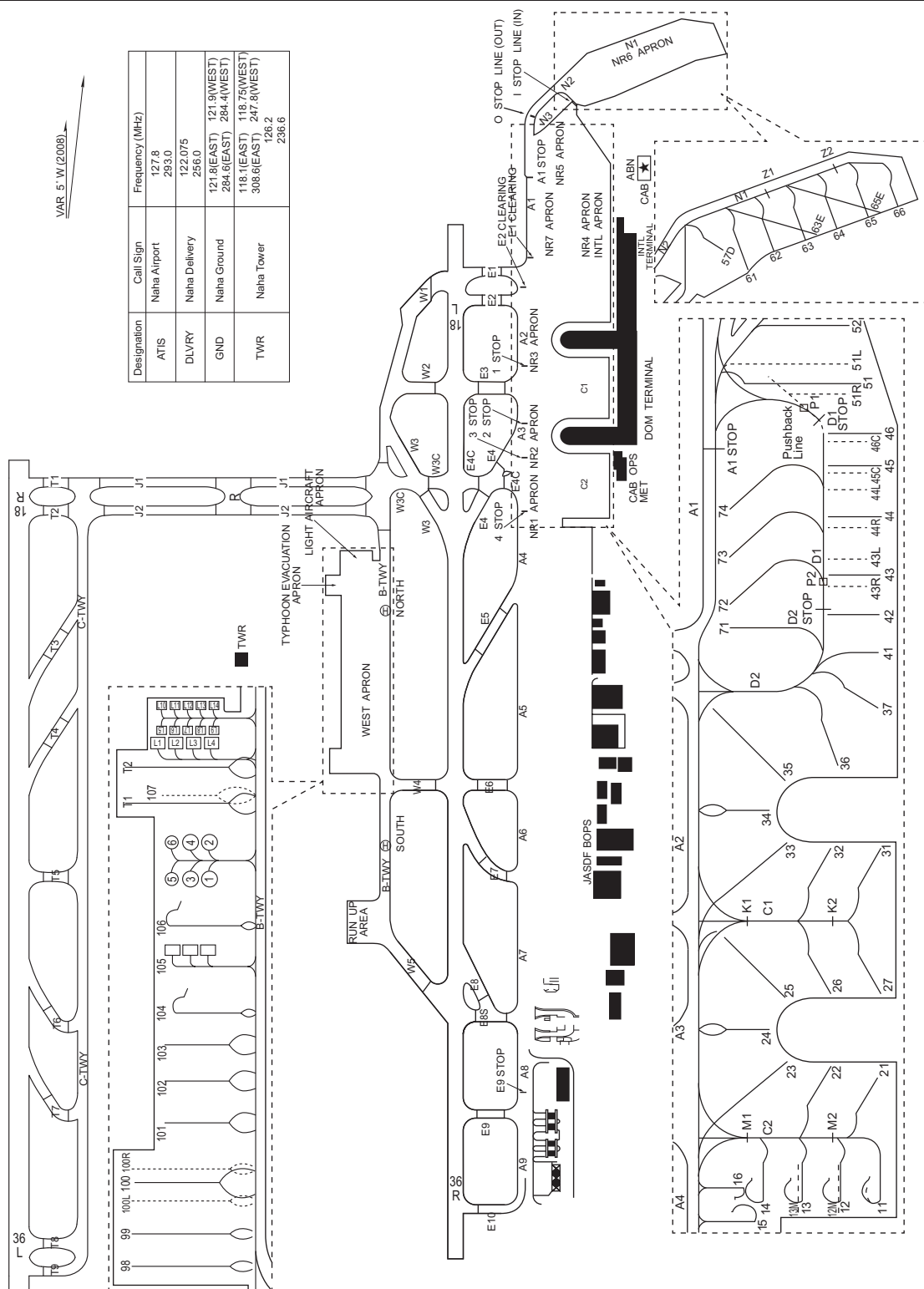
CHANGE : TWY D1, D2 installed. Spot 71-74 installed. Spot 36L, 36R abolished. A1 STOP installed.



AD CHART

ELEV 11ft (3.3m)

Designation	Call Sign	Frequency (MHz)
ATIS	Naha Airport	127.8
		293.0
		122.075
DLVR	Naha Delivery	256.0
GND	Naha Ground	121.6(EAST)
		121.9(WEST)
		284.6(EAST) 284.4(WEST)
TWR	Naha Tower	118.1(EAST) 118.75(WEST)
		308.6(EAST) 247.8(WEST)
		126.2
		236.6



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AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 5°25' W-APR 2020



LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
① IDENTIFICATION NUMBER			
⊙ POLE, TOWER, SPIRE, ANTENNA, ETC			
★ AERONAUTICAL GROUND LIGHT			
✱ OBSTRUCTION LIGHT			
■ BUILDING OR LARGE STRUCTURE			
— RAILROAD ▲ TRIANGULATION POINT			
— TRANSMISSION LINE OR OVERHEAD CABLE			
▨ LEVEE			
✱ TREE			
○ LAKE			
— RIVER			
— CONTOUR(S)			

CHANGE : RWY number

AERODROME OBSTACLE CHART-ICAO

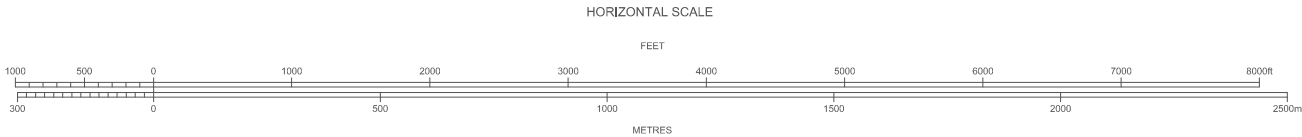
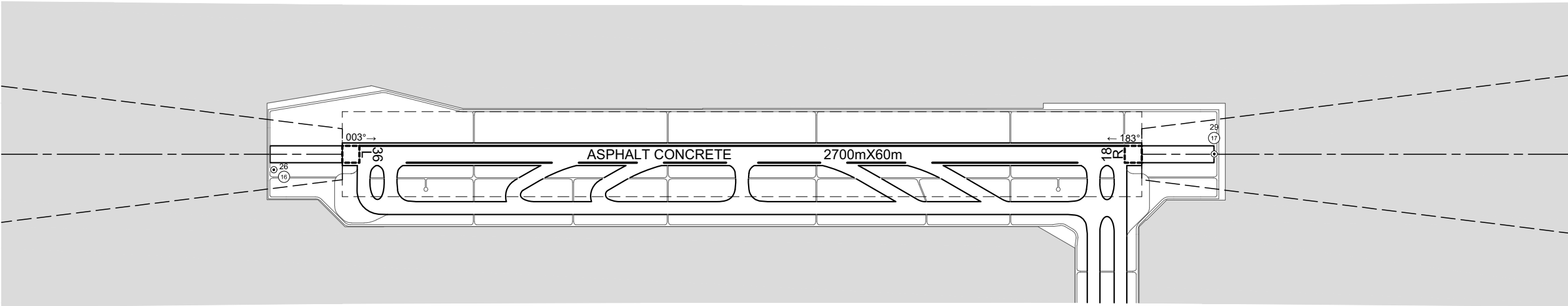
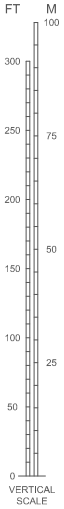
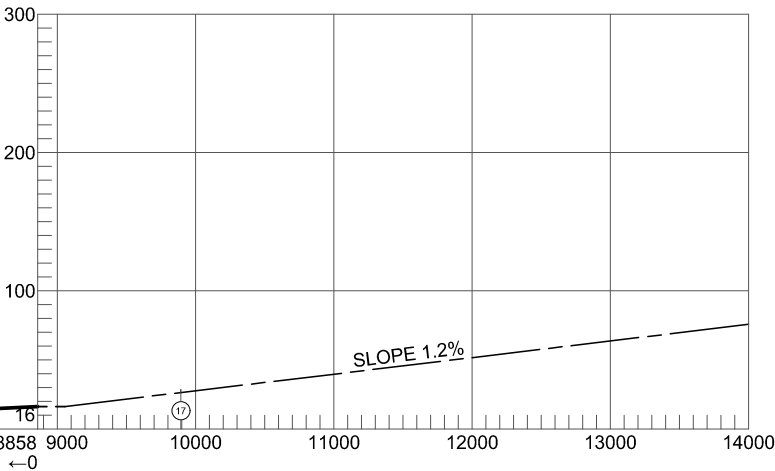
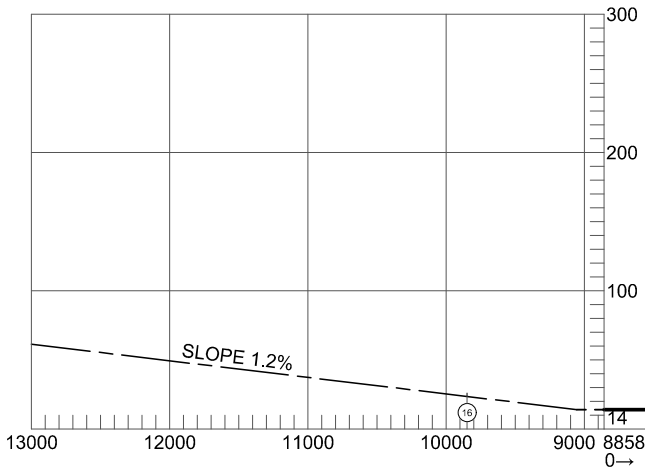
DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 5°25' W-APR 2020

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



LEGEND		AMENDMENT RECORD		
①	IDENTIFICATION NUMBER	Nr	DATE	ENTERED BY
⦿	POLE, TOWER, SPIRE, ANTENNA, ETC			
★	AERONAUTICAL GROUND LIGHT			
✱	OBSTRUCTION LIGHT			
■	BUILDING OR LARGE STRUCTURE			
—+—+—	RAILROAD			
—+—+—	TRANSMISSION LINE OR OVERHEAD CABLE			
	LEVEE			
★	TREE			
○	LAKE			
~~~~~	CONTOUR(S)			
~~~~~	RIVER			
▲	TRIANGULATION POINT			

CHANGE : Newly established

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



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



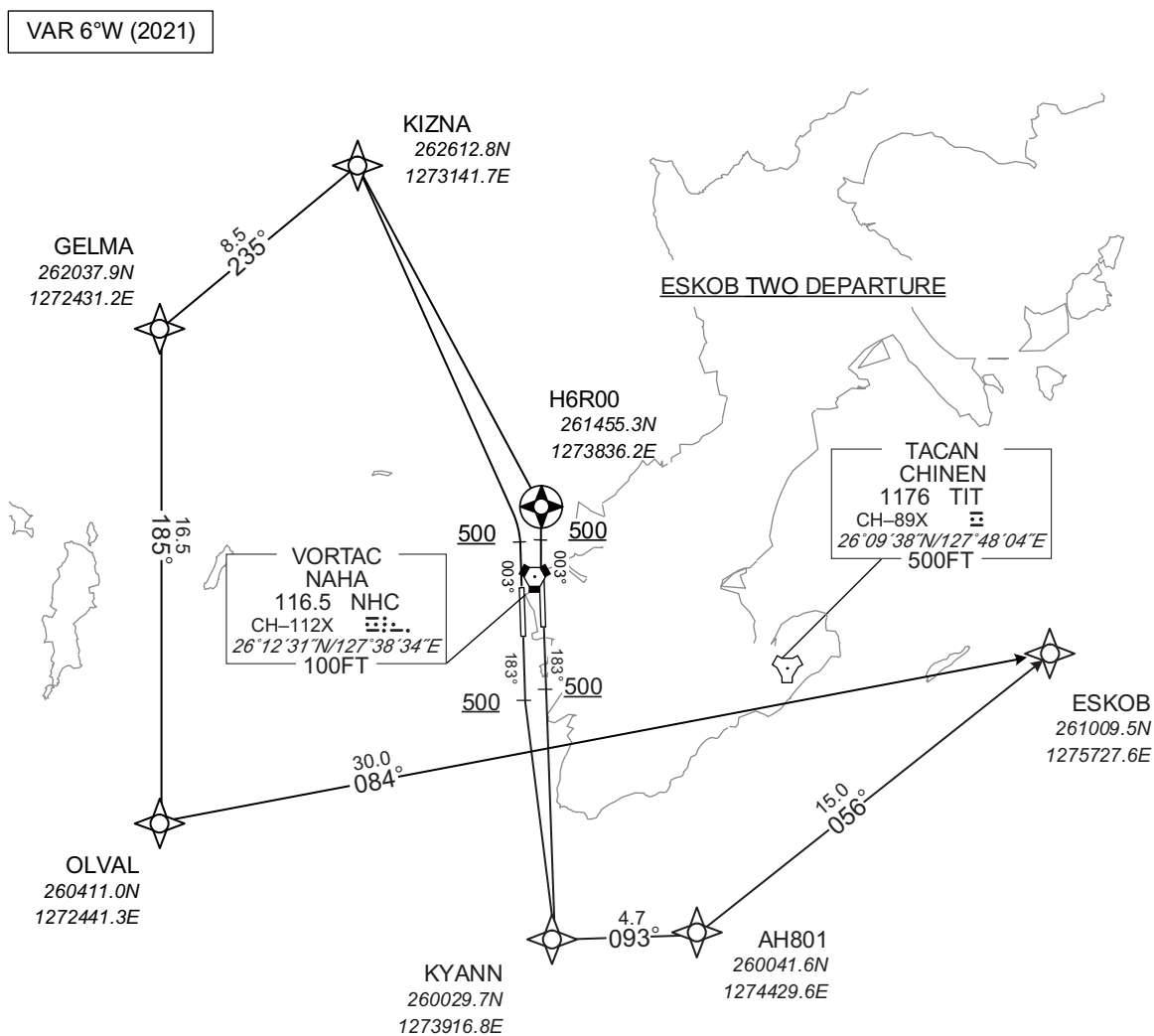
STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID

ESKOB TWO DEPARTURE			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2) RADAR service required.		Critical DME	RWY36R /36L NHC :23.6NM to ESKOB - 8.1NM to ESKOB TIT :23.6NM to ESKOB - 8.1NM to ESKOB
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.	DME GAP	RWY18L /18R : DER - ESKOB RWY36R /36L : DER - 23.6NM to ESKOB 8.1NM to ESKOB - ESKOB

CHANGE: VAR. PROC renamed. PROC for RWY36R/36L established. Critical DME, DME GAP added(RWY36R/36L). NOTE added.

ESKOB TWO DEPARTURE

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 to 500FT.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID

ESKOB 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	-	-	RNAV1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	RNAV1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	RNAV1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	RNAV1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	RNAV1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	RNAV1

RWY36R

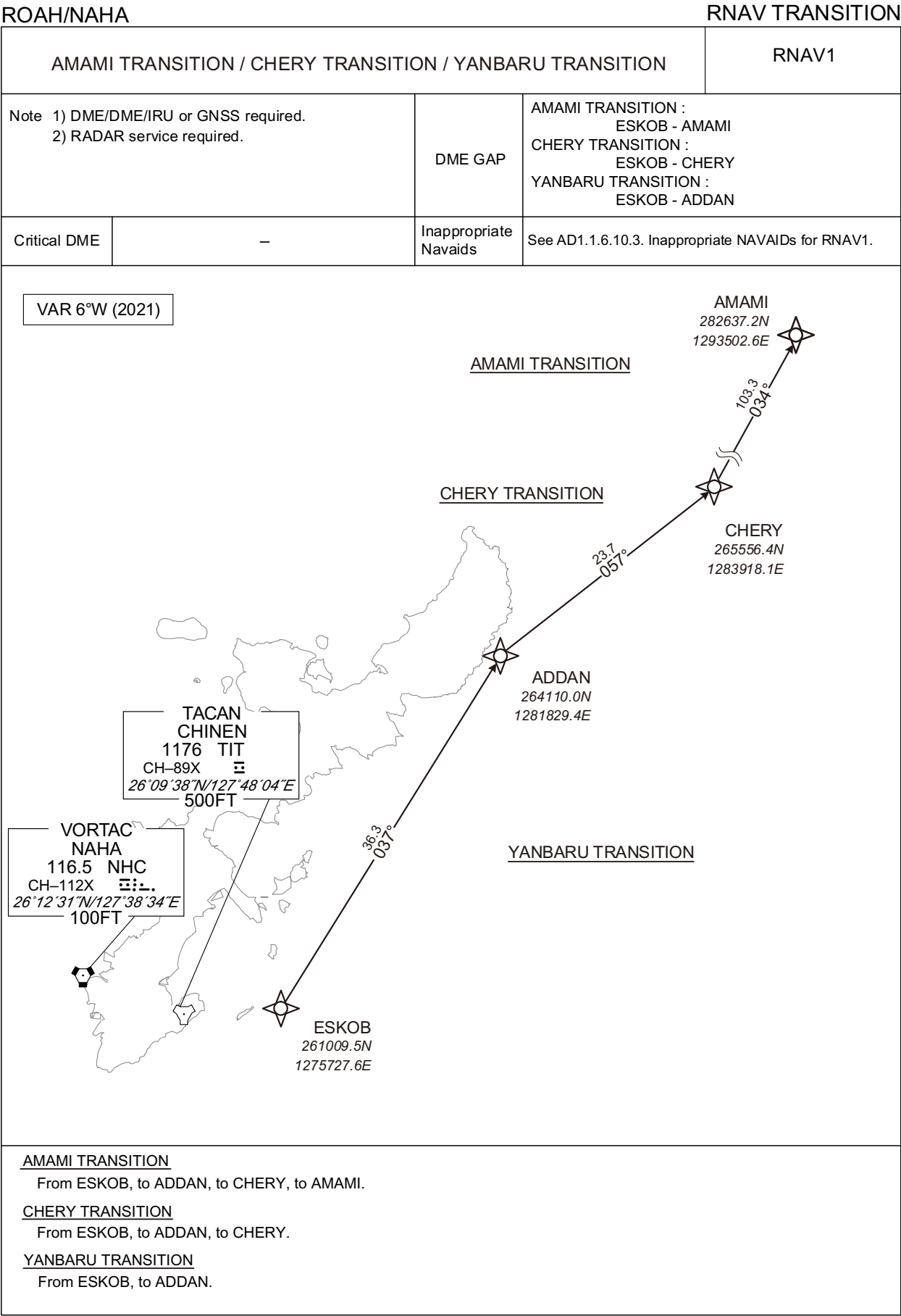
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	RNAV1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNAV1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNAV1
005	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	RNAV1
006	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNAV1
004	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	RNAV1
005	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	RNAV1

CHANGE: VAR. PROC renamed. PROC for RWY36R/36L established.

STANDARD DEPARTURE CHART-INSTRUMENT



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	-	-	-	-	-	RNAV1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNAV1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	RNAV1
004	TF	AMAMI	-	034 (028.3)	-5.6	103.3	-	-	-	-	RNAV1

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	-	-	-	-	-	RNAV1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNAV1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	RNAV1

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	-	-	-	-	-	RNAV1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	RNAV1

CHANGE: VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION

KIZNA ONE DEPARTURE RESORT TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off roll. 2) RADAR service required.		DME GAP	RWY36R : DER - KIZNA RWY36L : DER - KIZNA RESORT TRANSITION : KIZNA - OKUMA
Critical DME	-	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.
<div>VAR 6°W (2021)</div>			
KIZNA ONE DEPARTURE RWY18L/18R: (Not established) RWY36R : Climb on HDG003° at or above 500FT, direct to <u>H6R00</u> , 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.			

CHANGE: VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION

KIZNA ONE 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	-	-	RNAV1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNAV1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1

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	-	-	-	-	-	RNAV1
002	TF	OKUMA	-	068 (062.7)	-5.6	30.8	-	-	-	-	RNAV1

CHANGE: VAR.

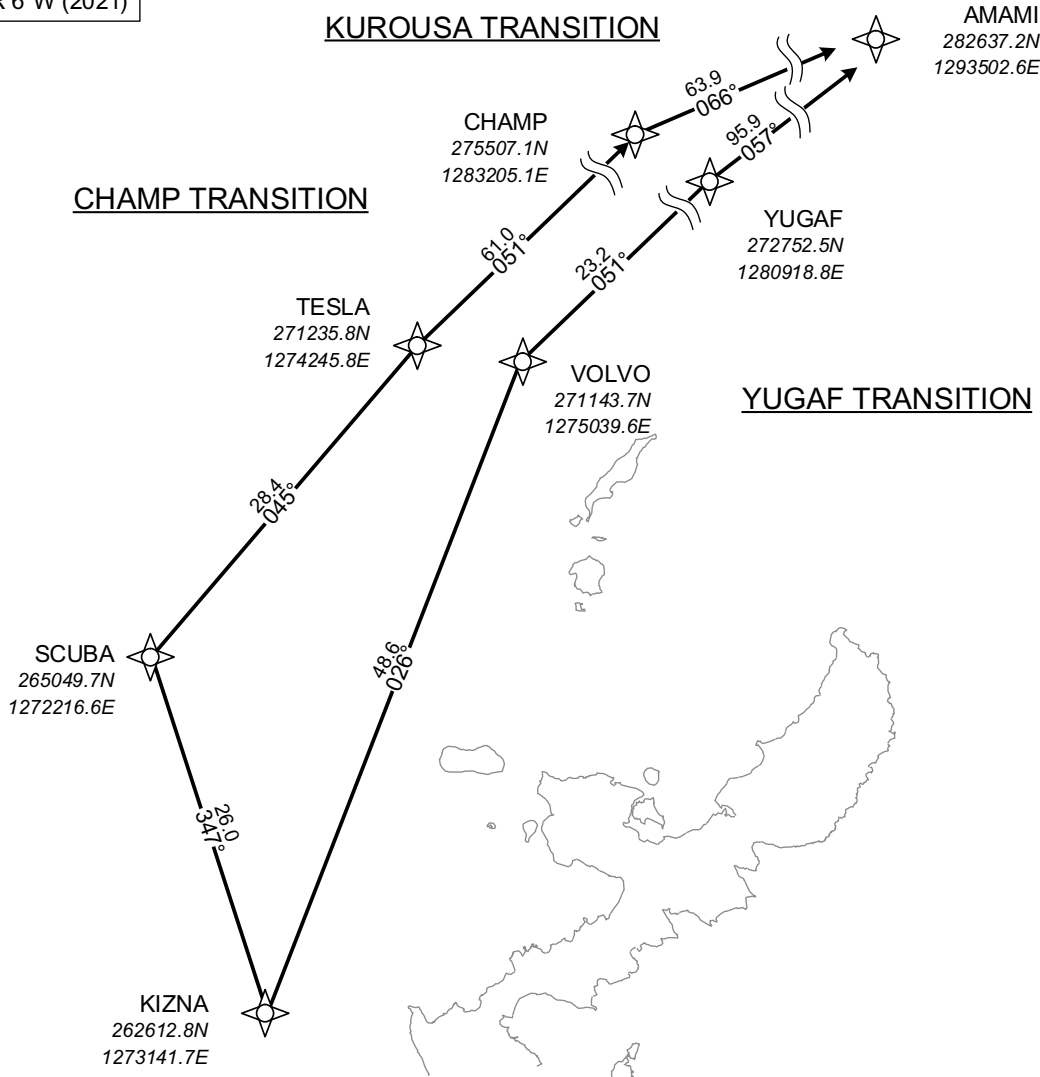
STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV TRANSITION

KUROUSA TRANSITION CHAMP TRANSITION YUGAF TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.		DME GAP	KUROUSA TRANSITION : KIZNA – SCUBA 40.0NM to AMAMI – AMAMI CHAMP TRANSITION : KIZNA – SCUBA YUGAF TRANSITION : KIZNA – 30.0NM to VOLVO 80.0NM to AMAMI – AMAMI
Critical DME	–	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

VAR 6°W (2021)



CHANGE: VAR.

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	-	-	-	-	-	RNAV1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	RNAV1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	RNAV1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	RNAV1
005	TF	AMAMI	-	066 (060.2)	-5.6	63.9	-	-	-	-	RNAV1

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	-	-	-	-	-	RNAV1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	RNAV1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	RNAV1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	RNAV1

YUGAF TRANSITION

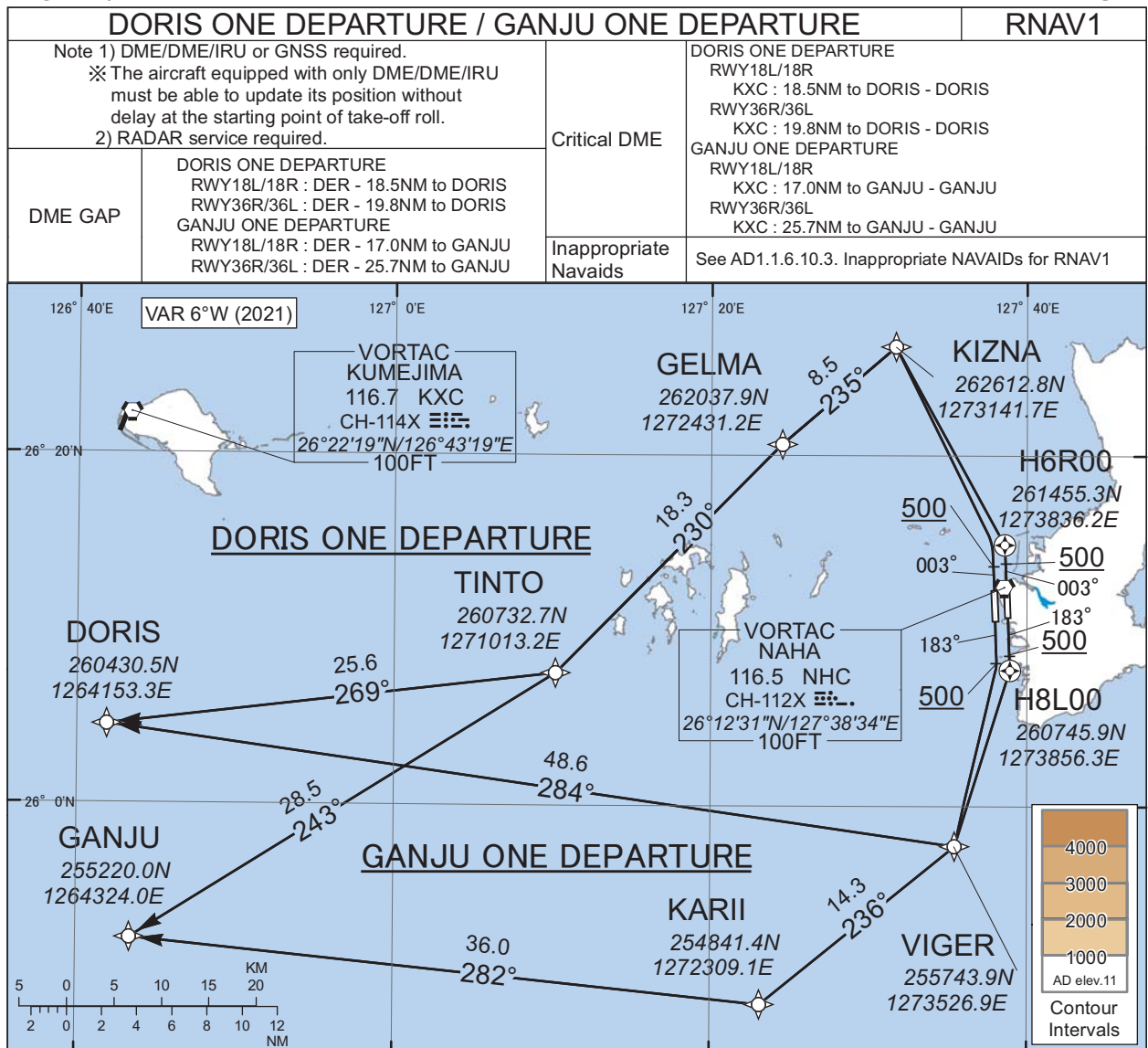
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIZNA	-	-	-5.6	-	-	-	-	-	RNAV1
002	TF	VOLVO	-	026 (020.3)	-5.6	48.6	-	-	-	-	RNAV1
003	TF	YUGAF	-	051 (045.7)	-5.6	23.2	-	-	-	-	RNAV1
004	TF	AMAMI	-	057 (051.9)	-5.6	95.9	-	-	-	-	RNAV1

CHANGE: VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

**DORIS ONE 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 ONE 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 : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

DORIS ONE 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	-	-	RNAV1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	RNAV1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNAV1
004	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNAV1
003	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	RNAV1

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

DORIS ONE 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	-	-	RNAV1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNAV1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNAV1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNAV1
006	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNAV1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNAV1
005	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	RNAV1

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

GANJU ONE 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	-	-	RNAV1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	RNAV1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNAV1
004	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	RNAV1
005	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	RNAV1
003	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	RNAV1
004	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	RNAV1

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH / NAHA

RNAV SID

GANJU ONE 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	-	-	RNAV1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	RNAV1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNAV1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNAV1
006	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	RNAV1

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	-	-	RNAV1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	RNAV1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	RNAV1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	RNAV1
005	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	RNAV1

CHANGE : New PROC.

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.

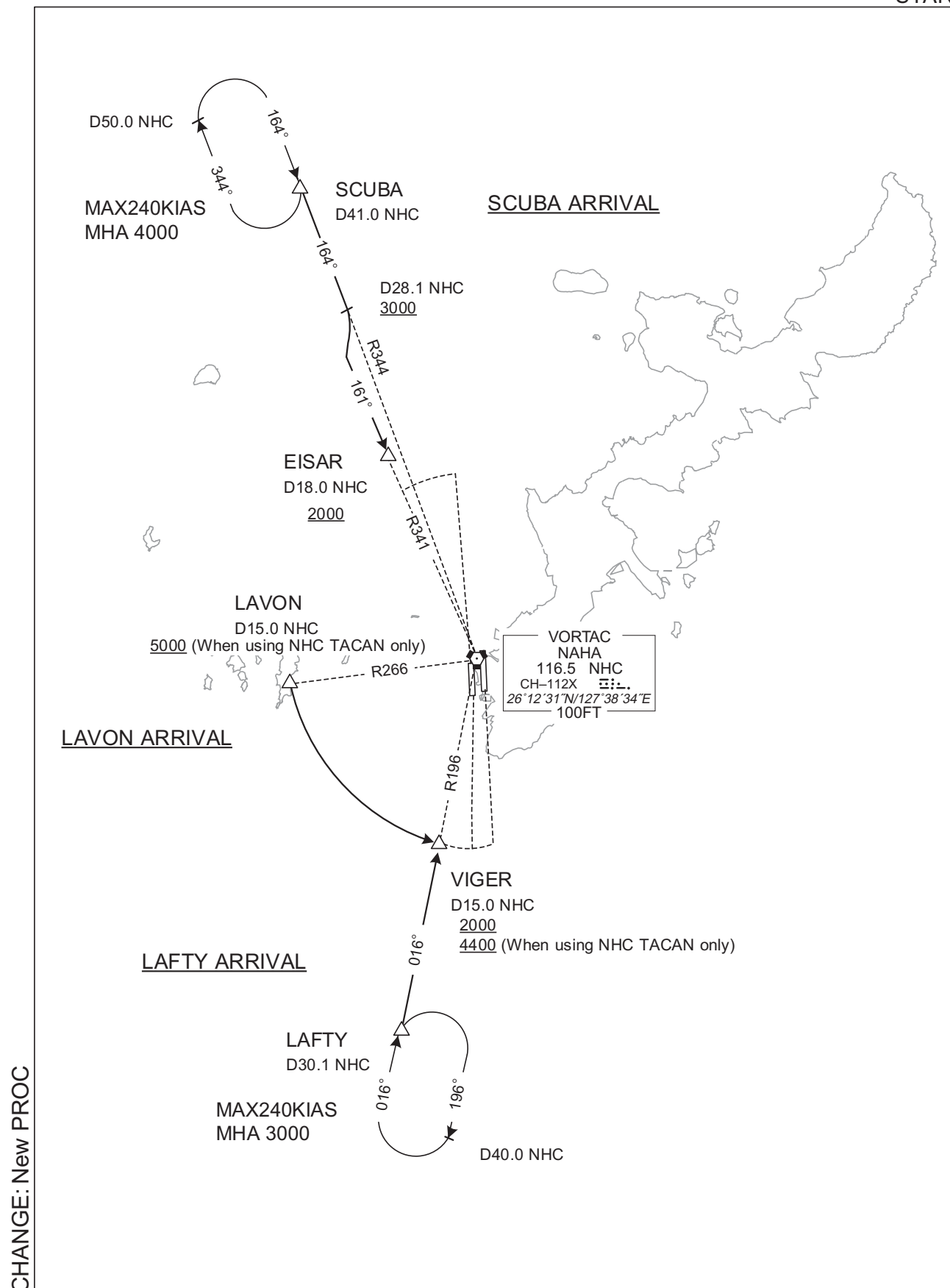
Cross VIGER at or above 4400FT.

CHANGE: New PROC

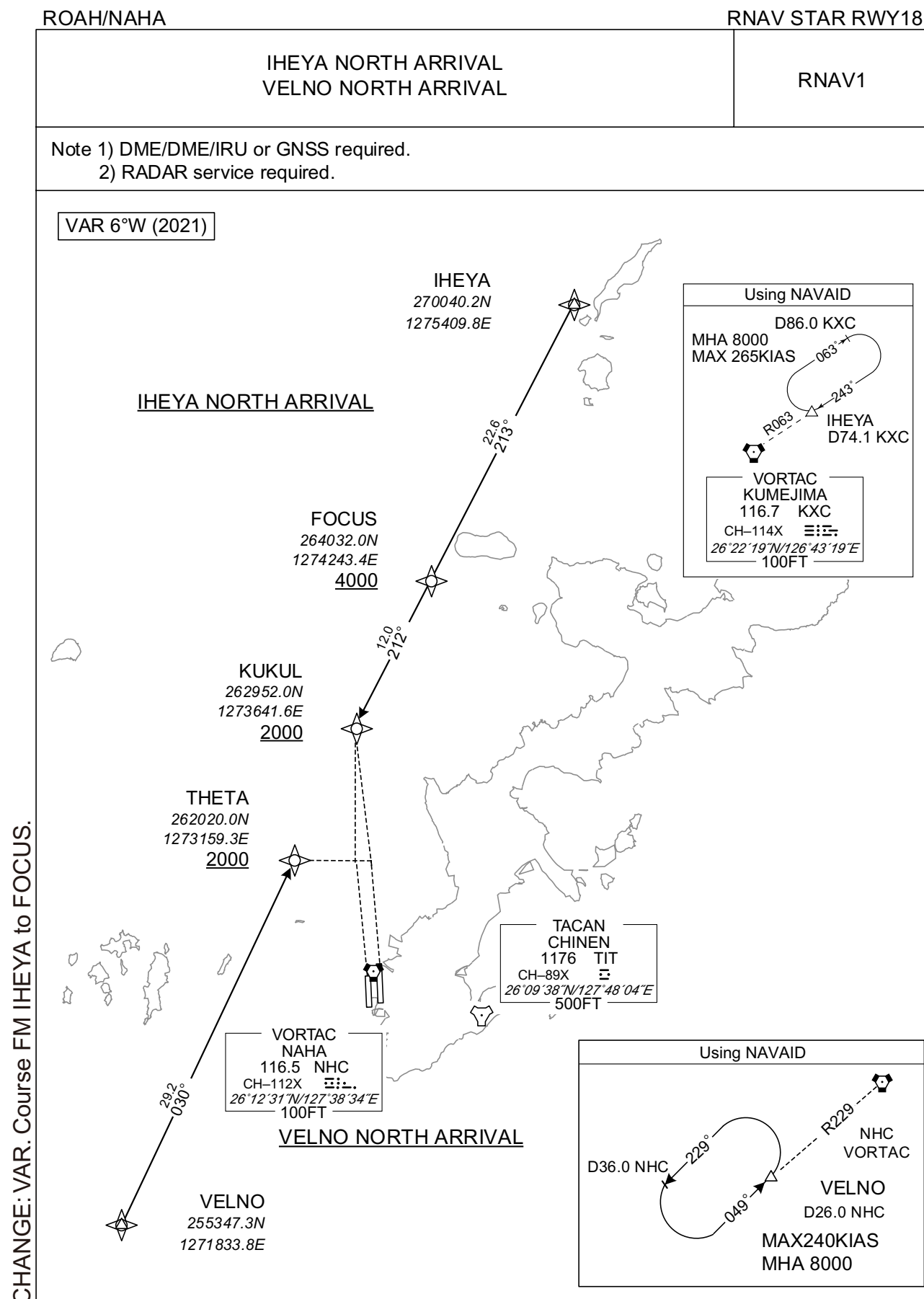
STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

STAR



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.

Critical DME	–
DME GAP	IHEYA – KUKUL
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

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	-	-	-	-	-	RNAV1
002	TF	FOCUS	-	213 (206.9)	-5.6	22.6	-	+4000	-	-	RNAV1
003	TF	KUKUL	-	212 (206.8)	-5.6	12.0	-	+2000	-	-	RNAV1

VELNO NORTH ARRIVAL

From VELNO, to THETA at or above 2000FT.

Critical DME	–
DME GAP	VELNO – THETA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

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	-	-	-	-	-	RNAV1
002	TF	THETA	-	030 (024.4)	-5.6	29.2	-	+2000	-	-	RNAV1

CHANGE: VAR: Course FM IHEYA to FOCUS.

STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY18

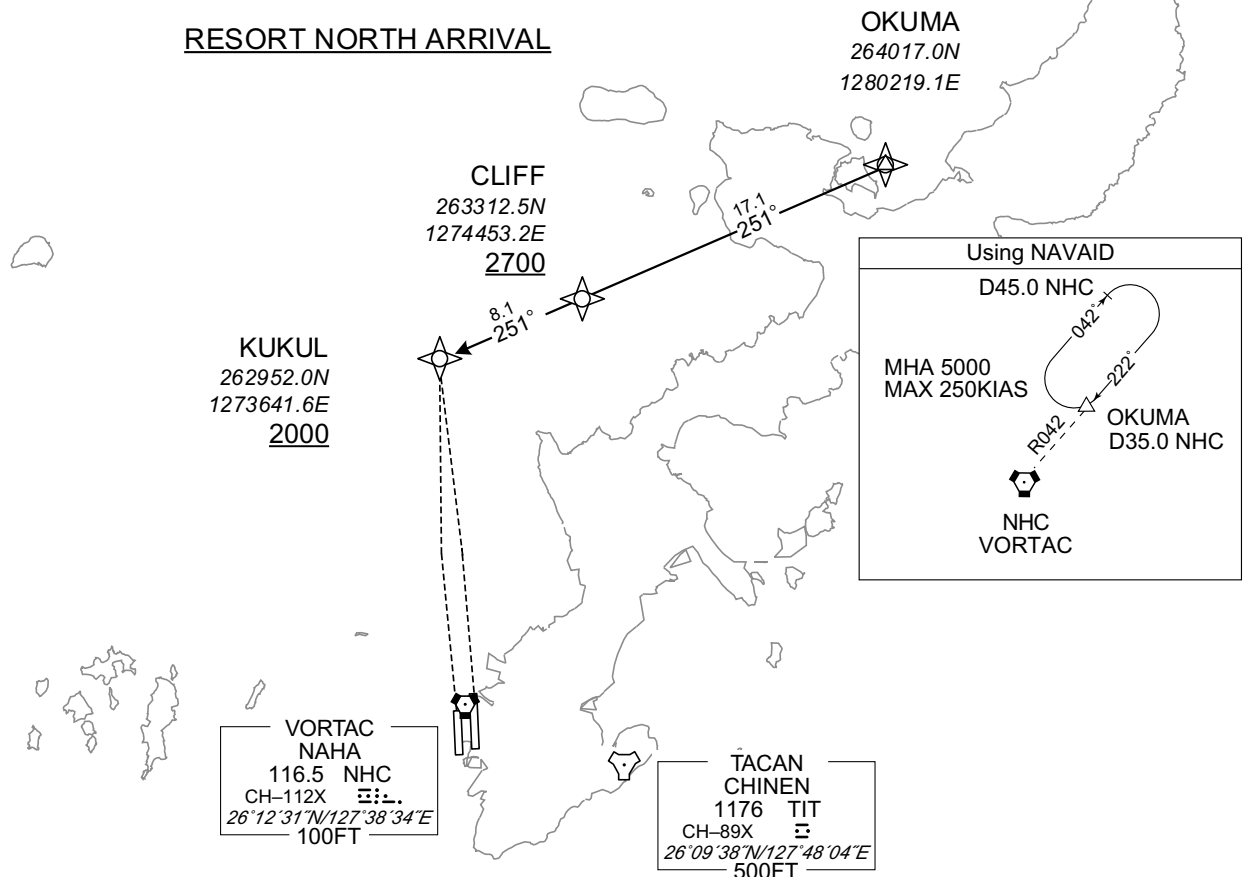
RESORT NORTH ARRIVAL

RNAV1

- Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.
3) CDO only.

VAR 6°W (2021)

RESORT NORTH ARRIVAL



RESORT NORTH ARRIVAL

From OKUMA, to CLIFF at or above 2700FT, to KUKUL at or above 2000FT.

Critical DME	-
DME GAP	OKUMA - KUKUL
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

CHANGE: VAR.

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	OKUMA	-	-	-5.6	-	-	-	-	-	RNAV1
002	TF	CLIFF	-	251 (245.7)	-5.6	17.1	-	+2700	-	-	RNAV1
003	TF	KUKUL	-	251 (245.5)	-5.6	8.1	-	+2000	-	-	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY18

GUPTI NORTH ARRIVAL
ENTOK NORTH ARRIVAL

Basic RNP1

Note 1) GNSS required. 2) CDO only.

VAR 6°W (2021)

GUPTI NORTH ARRIVAL

GUPTI
290124.5N
1280918.7E
FL200

IHEYA
270040.2N
1275409.8E

KUKUL
262952.0N
1273641.6E
2000

ENTOK
261914.3N
1245953.8E
FL170

YEEZY
262018.1N
1265032.5E
2100

THETA
262020.0N
1273159.3E
2000

ENTOK 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: VAR. PROC course.

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	-	-	Basic RNP1
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	Basic RNP1
003	TF	KUKUL	-	213 (206.9)	-5.6	34.6	-	+2000	-	-	Basic 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	-	-	Basic RNP1
002	TF	YEEZY	-	095 (089.0)	-5.6	99.2	-	+2100	-	-	Basic RNP1
003	TF	THETA	-	095 (089.8)	-5.6	37.2	-	+2000	-	-	Basic RNP1

CHANGE: VAR. PROC course.

STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

RNAV STAR RWY36

IHEYA SOUTH ARRIVAL
VELNO SOUTH ARRIVAL

RNAV1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 6°W (2021)

IHEYA SOUTH ARRIVALIHEYA
270040.2N
1275409.8E

Using NAVAID

D86.0 KXC
MHA 8000
MAX 265KIAS
063°
243°
R063
IHEYA
D74.1 KXCVORTAC
KUMEJIMA
116.7 KXC
CH-114X
26°22'19"N/126°43'19"E
100FT37.1
184°

Using NAVAID

D36.0 NHC
229°
049°
R229
NHC
VORTAC
VELNO
D26.0 NHC
MAX240KIAS
MHA 8000HASA
262334.1N
1275516.0E
11000VORTAC
NAHA
116.5 NHC
CH-112X
26°12'31"N/127°38'34"E
100FTVELNO SOUTH ARRIVALTACAN
CHINEN
1176 TIT
CH-89X
26°09'38"N/127°48'04"E
500FTSEIFA
260303.9N
1274448.5E
200015.7
081°
VELNO
255347.3N
1271833.8EVIGER
255743.9N
1273526.9E
2000

CHANGE: VAR.

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.

Critical DME	-
DME GAP	20.0NM to HASSA – SEIFA
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

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	-	-	-	-	-	RNAV1
002	TF	HASSA	-	184 (178.5)	-5.6	37.1	-	+11000	-	-	RNAV1
003	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	RNAV1

VELNO SOUTH ARRIVAL

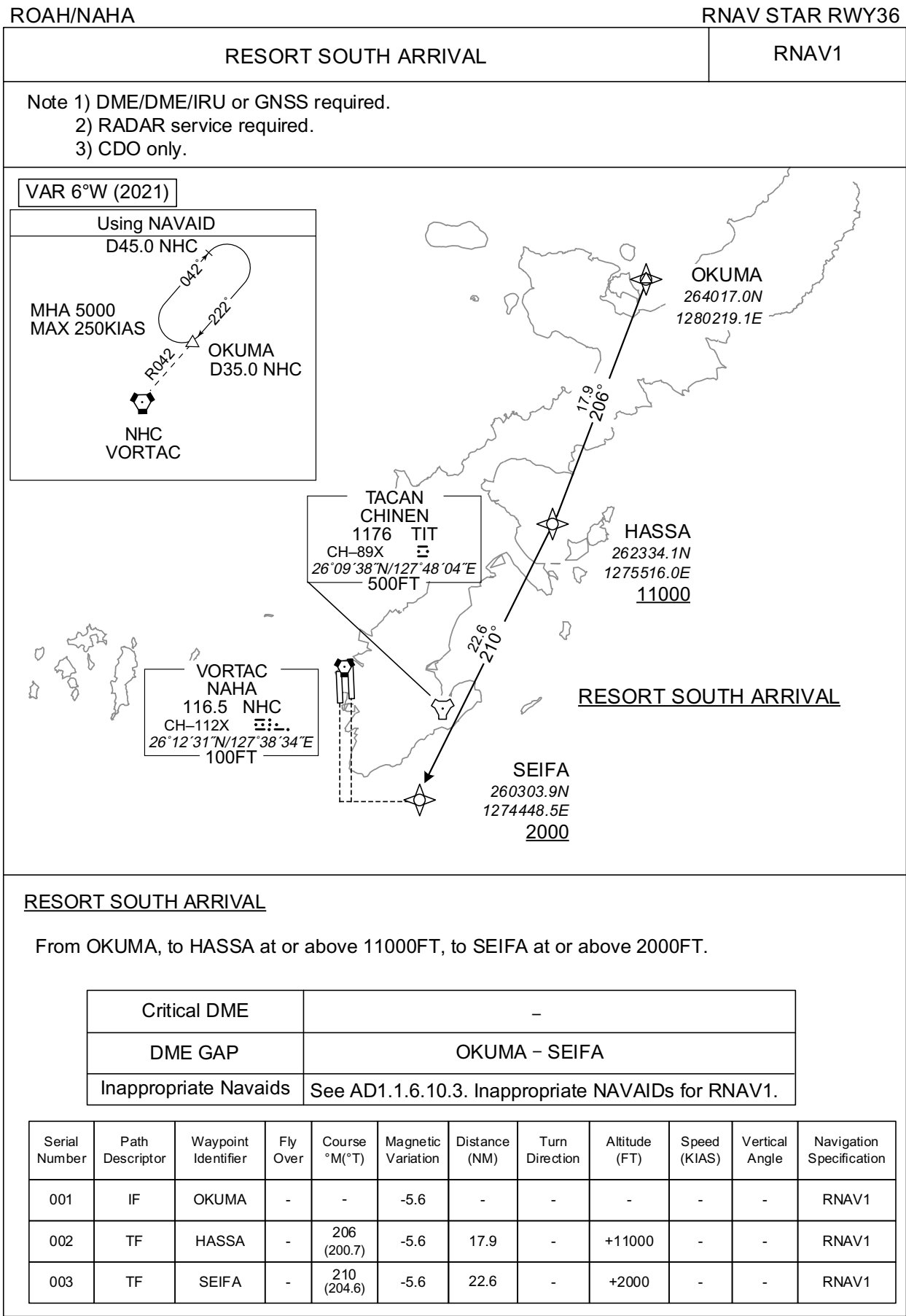
From VELNO, to VIGER at or above 2000FT.

Critical DME	-
DME GAP	VELNO – VIGER
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

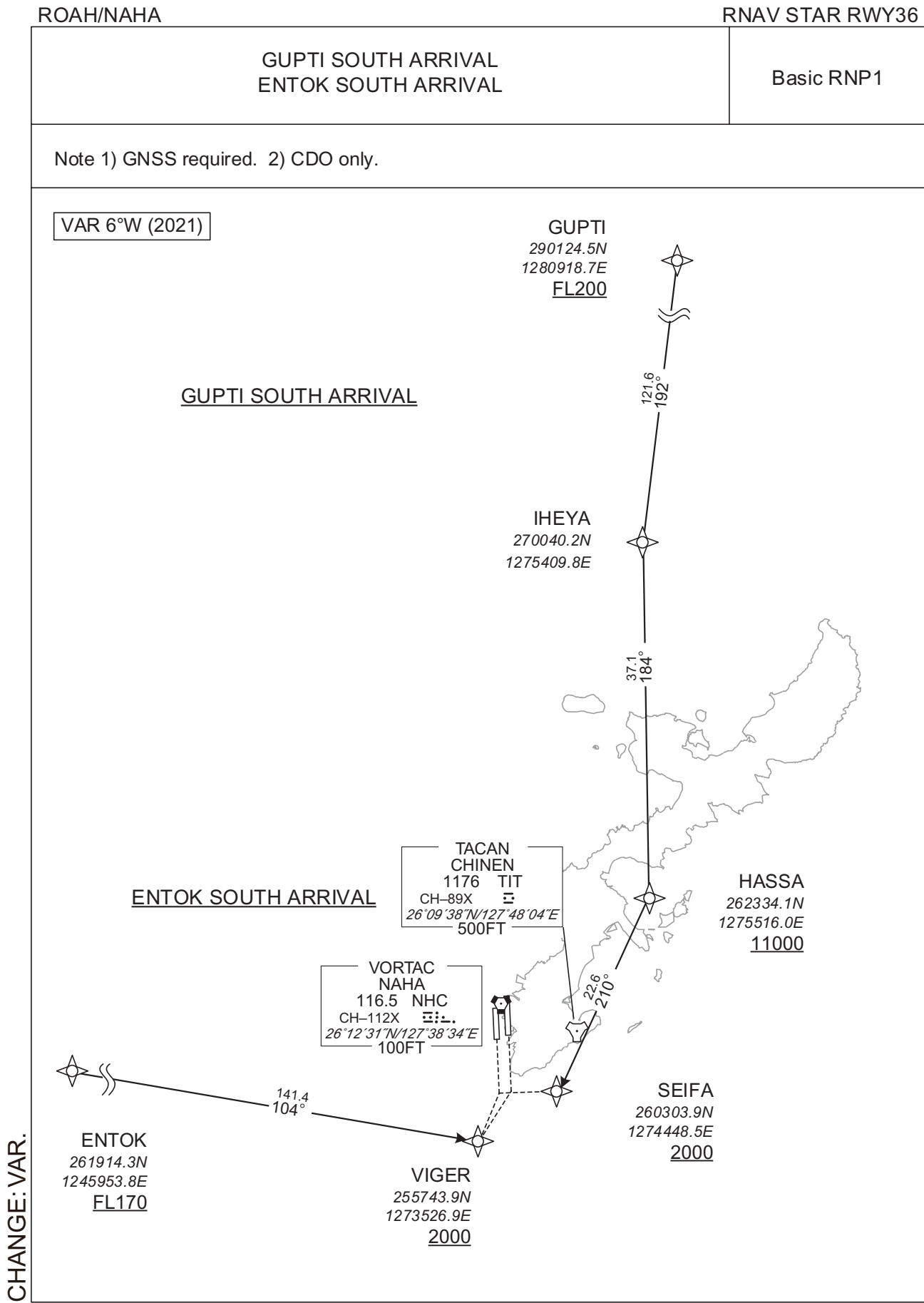
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VELNO	-	-	-5.6	-	-	-	-	-	RNAV1
002	TF	VIGER	-	081 (075.4)	-5.6	15.7	-	+2000	-	-	RNAV1

CHANGE: VAR.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT



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	-	-	Basic RNP1
002	TF	IHEYA	-	192 (186.4)	-5.6	121.6	-	-	-	-	Basic RNP1
003	TF	HASSA	-	184 (178.5)	-5.6	37.1	-	+11000	-	-	Basic RNP1
004	TF	SEIFA	-	210 (204.6)	-5.6	22.6	-	+2000	-	-	Basic RNP1

ENTOK SOUTH ARRIVAL

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

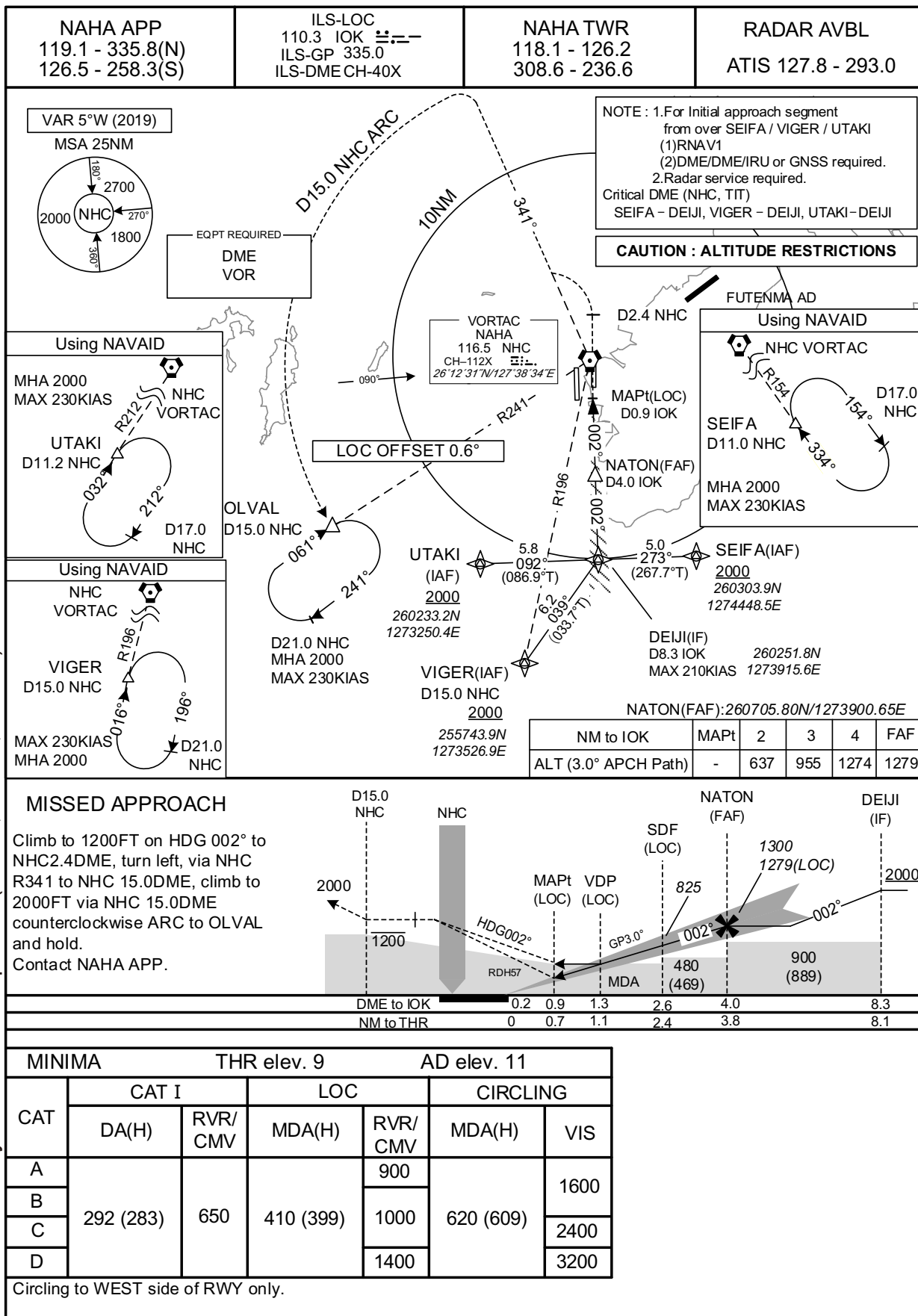
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.6	-	-	+FL170	-	-	Basic RNP1
002	TF	VIGER	-	104 (098.2)	-5.6	141.4	-	+2000	-	-	Basic RNP1

CHANGE: VAR.

INSTRUMENT APPROACH CHART

ROAH / NAHA

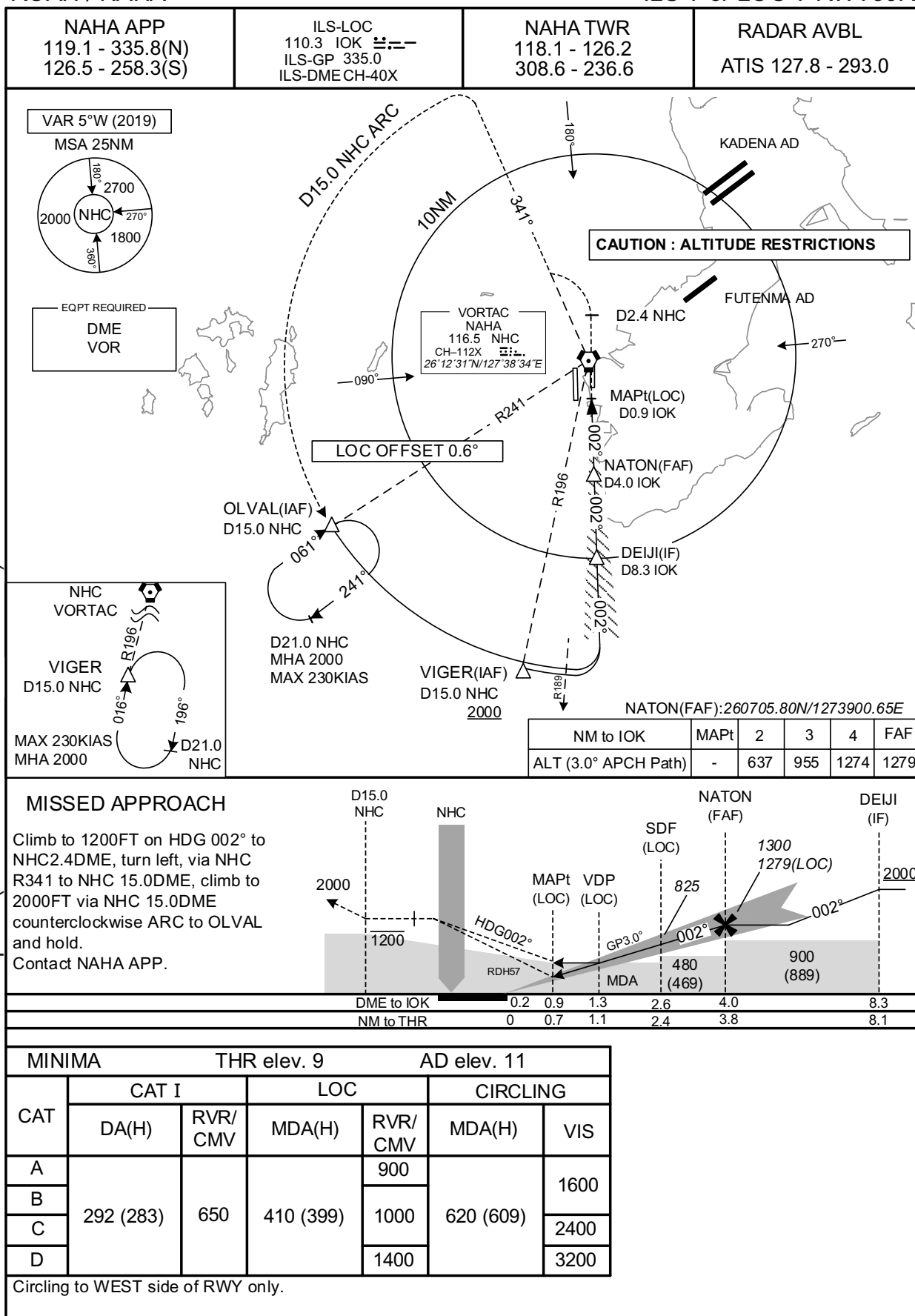
ILS Z or LOC Z RWY36R



INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Y or LOC Y RWY36R

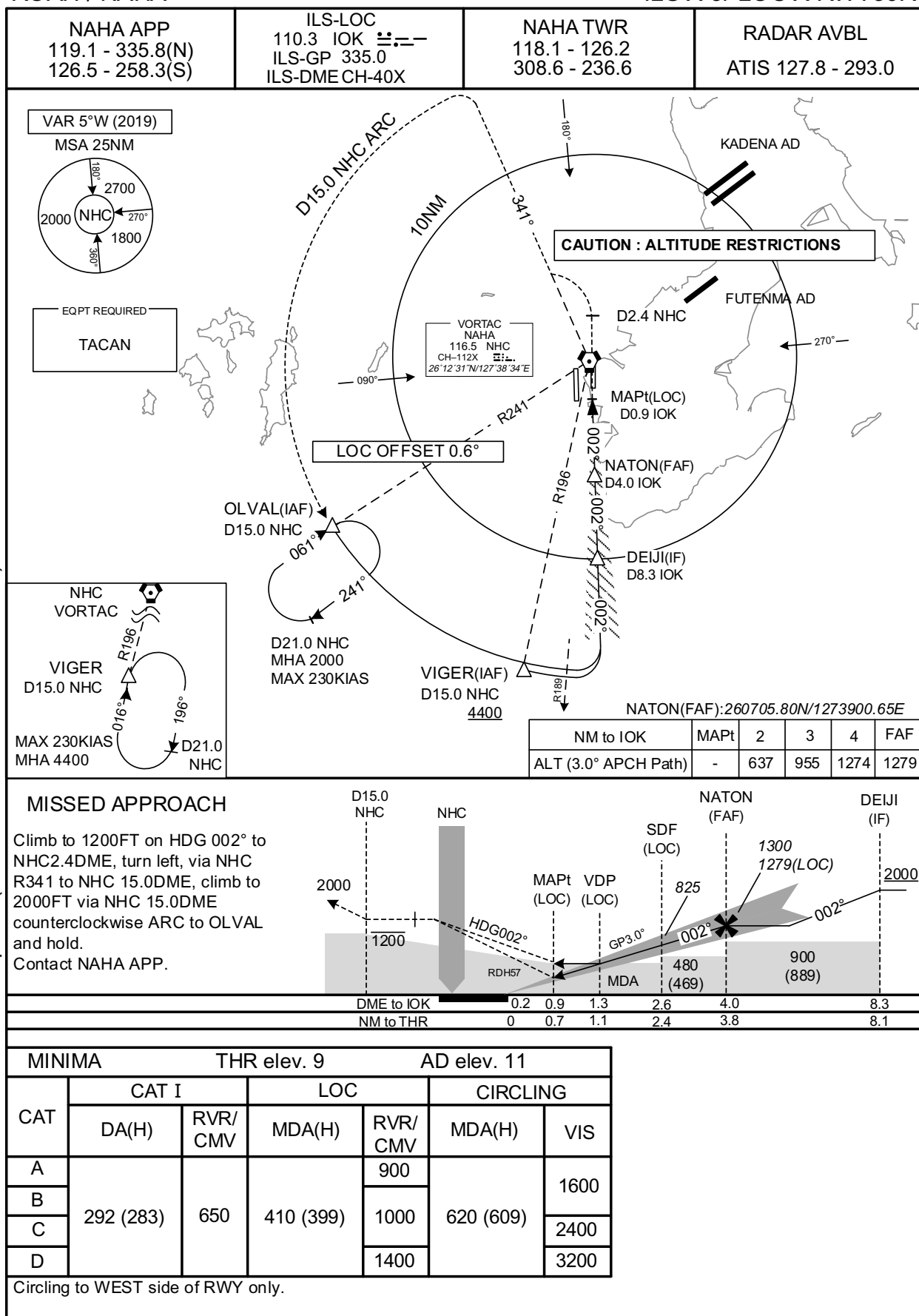


CHANGE: Correction of misdescription (NM to Next IOK → NM to IOK).

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS X or LOC X RWY36R

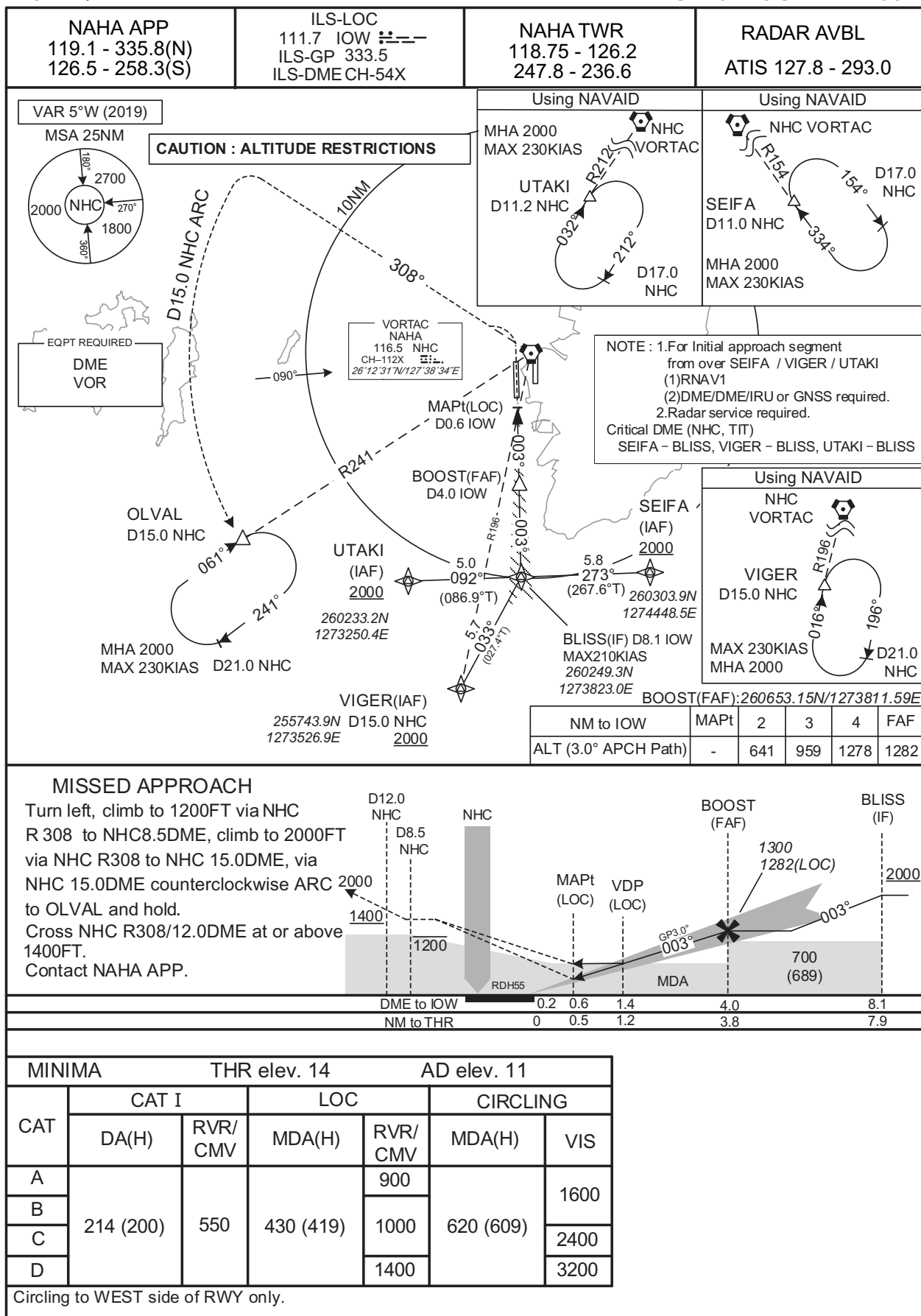


CHANGE: Correction of misdescription (NM to Next IOK → NM to IOK).

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Z or LOC Z RWY36L

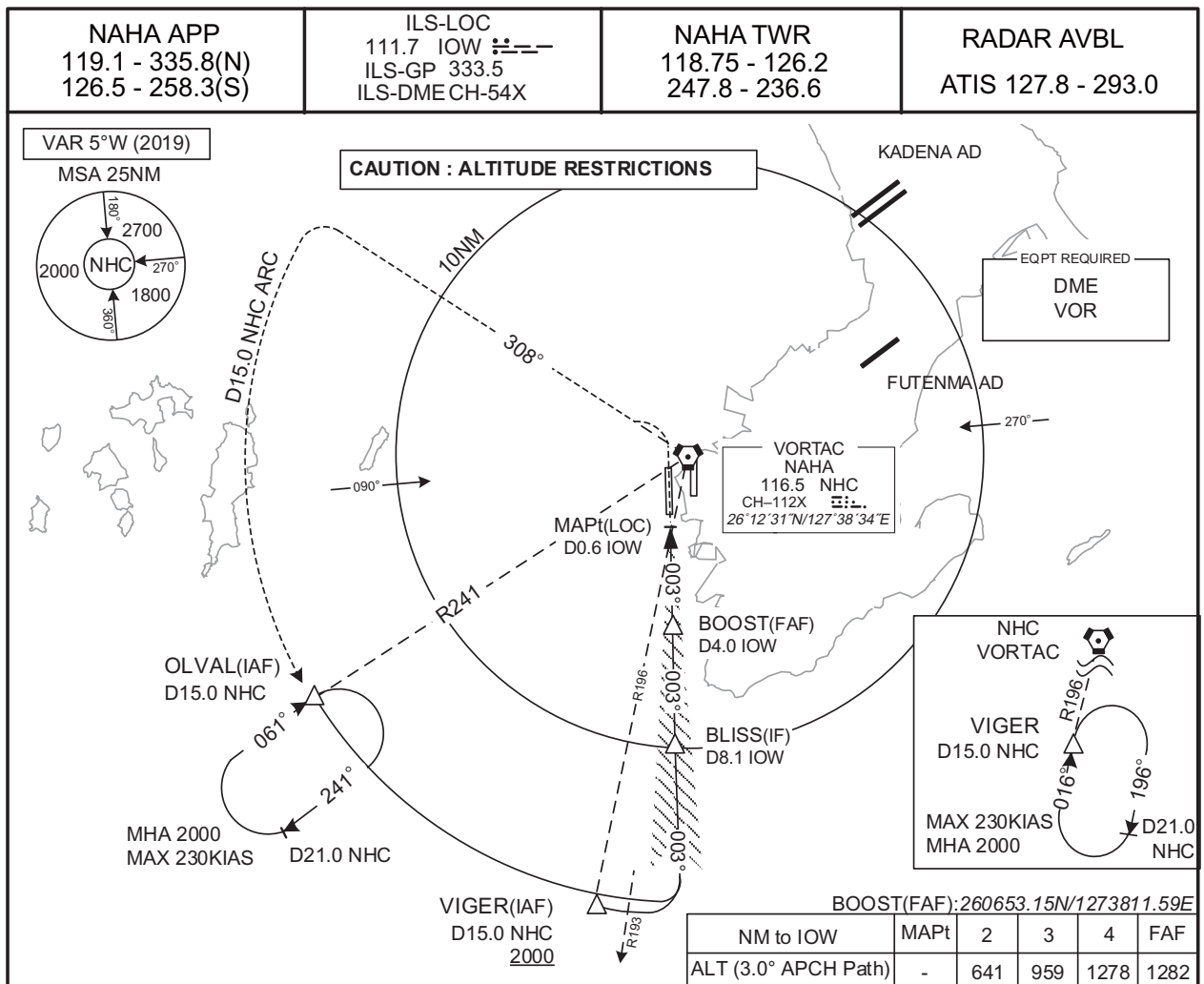


CHANGE: FIX symbol of HLDG pattern(SEIFA, UTAKI, VIGER).

INSTRUMENT APPROACH CHART

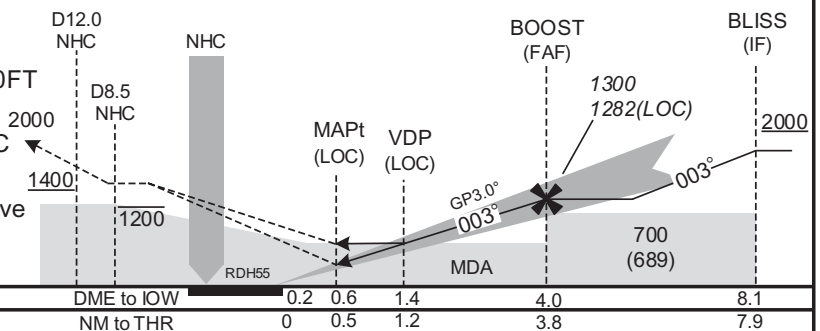
ROAH / NAHA

ILS Y or LOC Y RWY36L



MISSED APPROACH

Turn left, climb to 1200FT via NHC
R308 to NHC8.5DME, climb to 2000FT
via NHC R308 to NHC 15.0DME, via
NHC 15.0DME counterclockwise ARC
to OLVAL and hold.
Cross NHC R308/12.0DME at or above
1400FT.
Contact NAHA APP.



CHANGE: New PROC

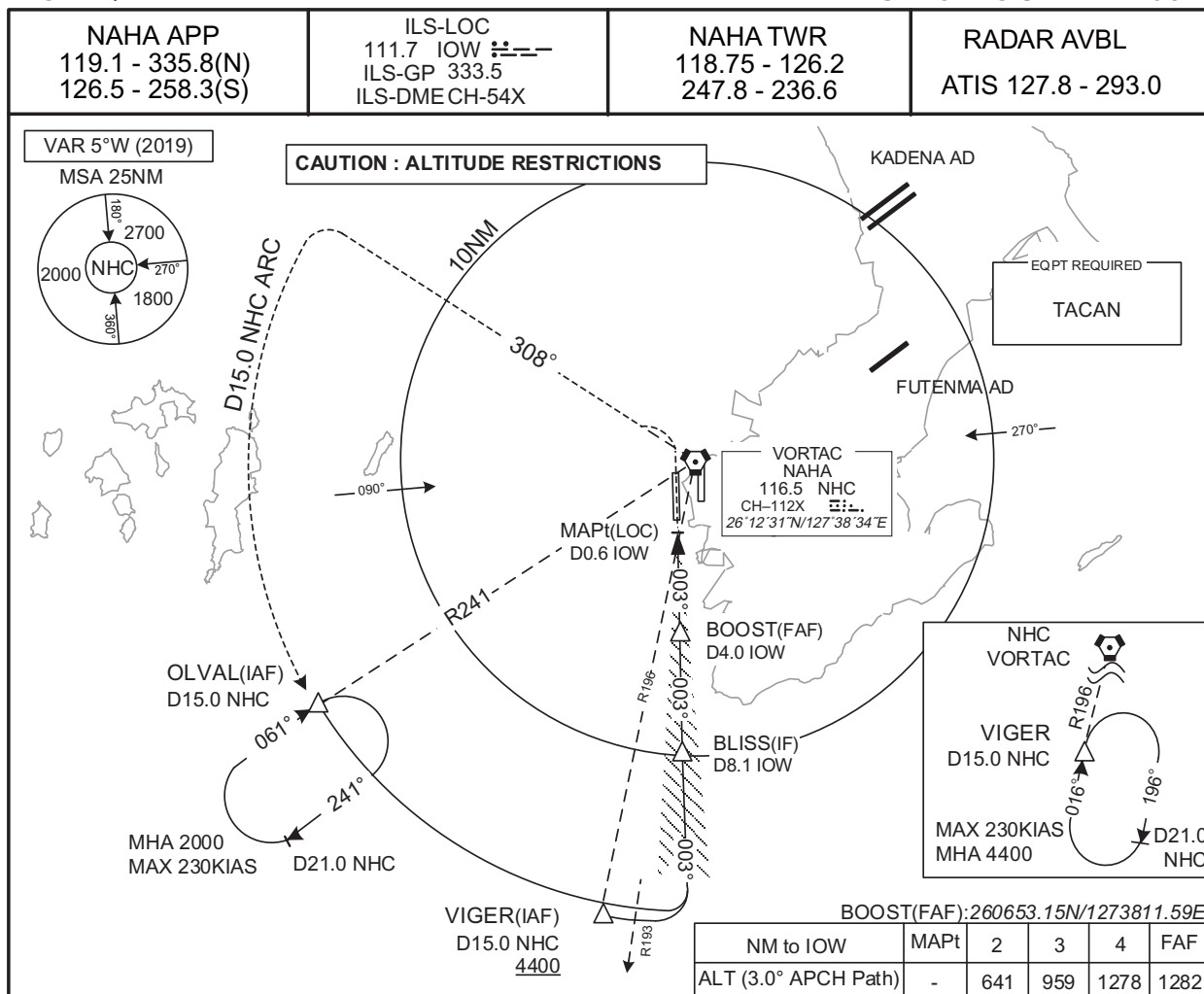
MINIMA		THR elev. 14		AD elev. 11		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	214 (200)	550	430 (419)	900	620 (609)	1600
B				1000		2400
C				1400		3200
D						

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

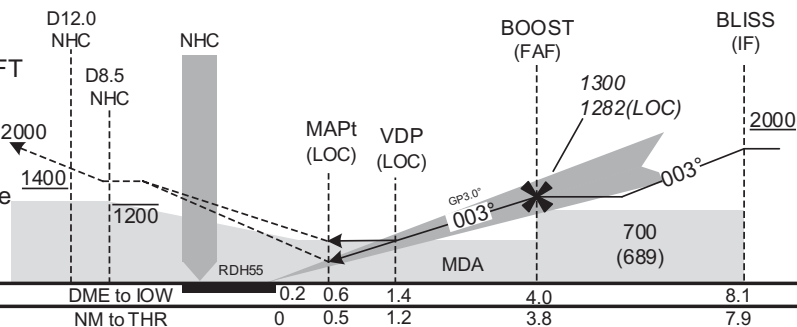
ROAH / NAHA

ILS X or LOC X RWY36L



MISSED APPROACH

Turn left, climb to 1200FT via NHC
 R308 to NHC8.5DME, climb to 2000FT
 via NHC R308 to NHC 15.0DME, via
 NHC 15.0DME counterclockwise ARC 2000
 to OLVAL and hold.
 Cross NHC R308/12.0DME at or above
 1400FT.
 Contact NAHA APP.



CHANGE: New PROC

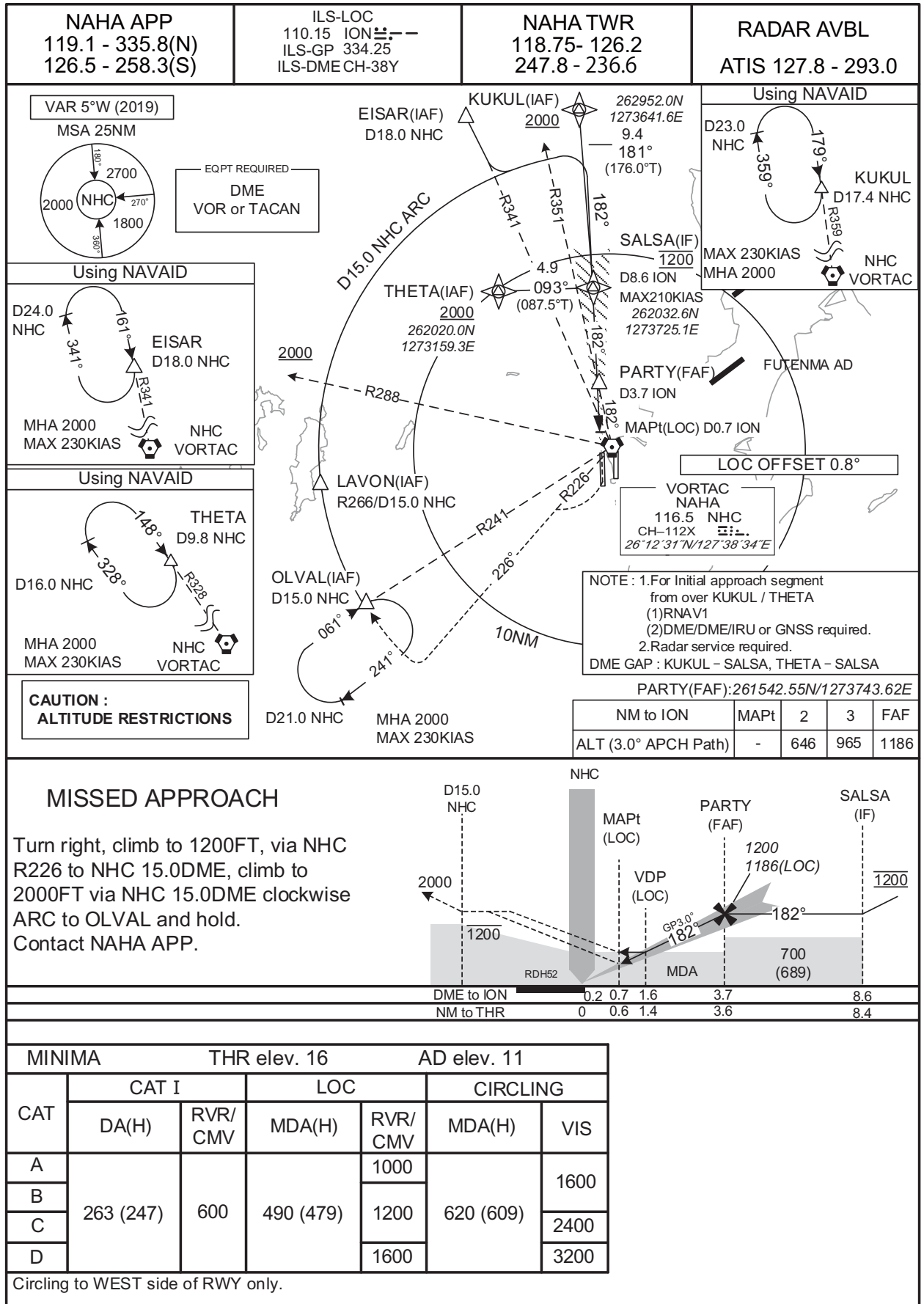
MINIMA		THR elev. 14		AD elev. 11			
CAT	CAT I		LOC		CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	214 (200)	550	430 (419)	900	620 (609)	1600	
B				1000			
C							2400
D							

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS or LOC RWY18R

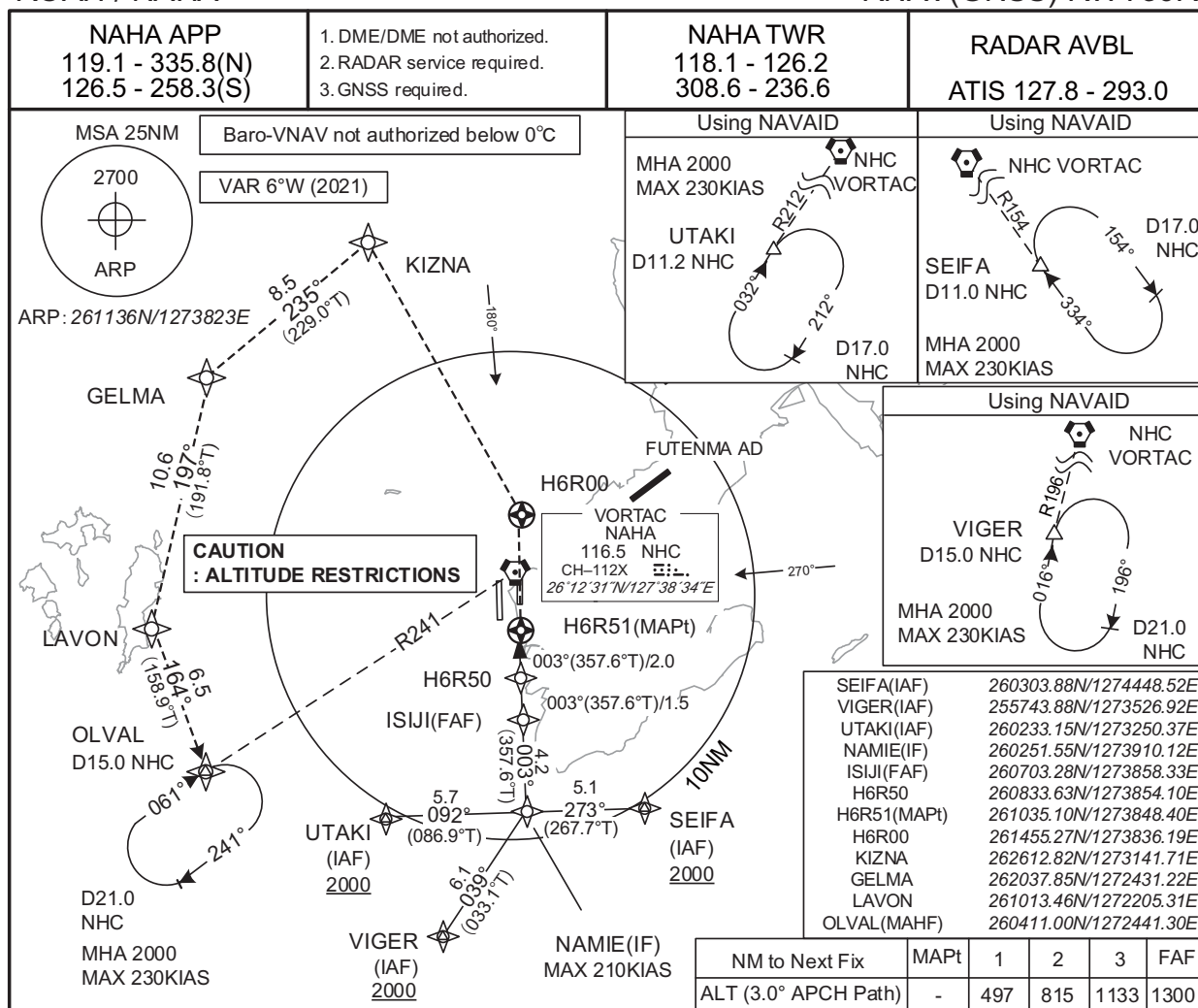


CHANGE: ALT restriction at SALSA added (in the plan view).

INSTRUMENT APPROACH CHART

ROAH / NAHA

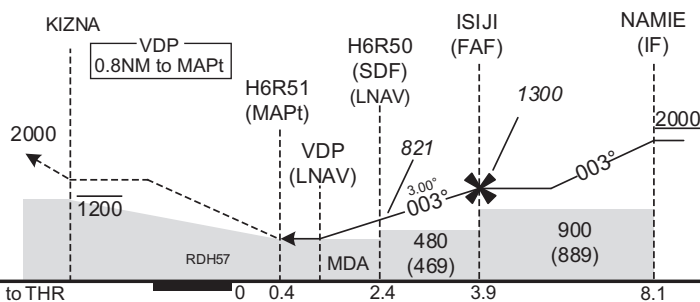
RNAV(GNSS) RWY36R



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.



CHANGE : Sensor for RNAV.

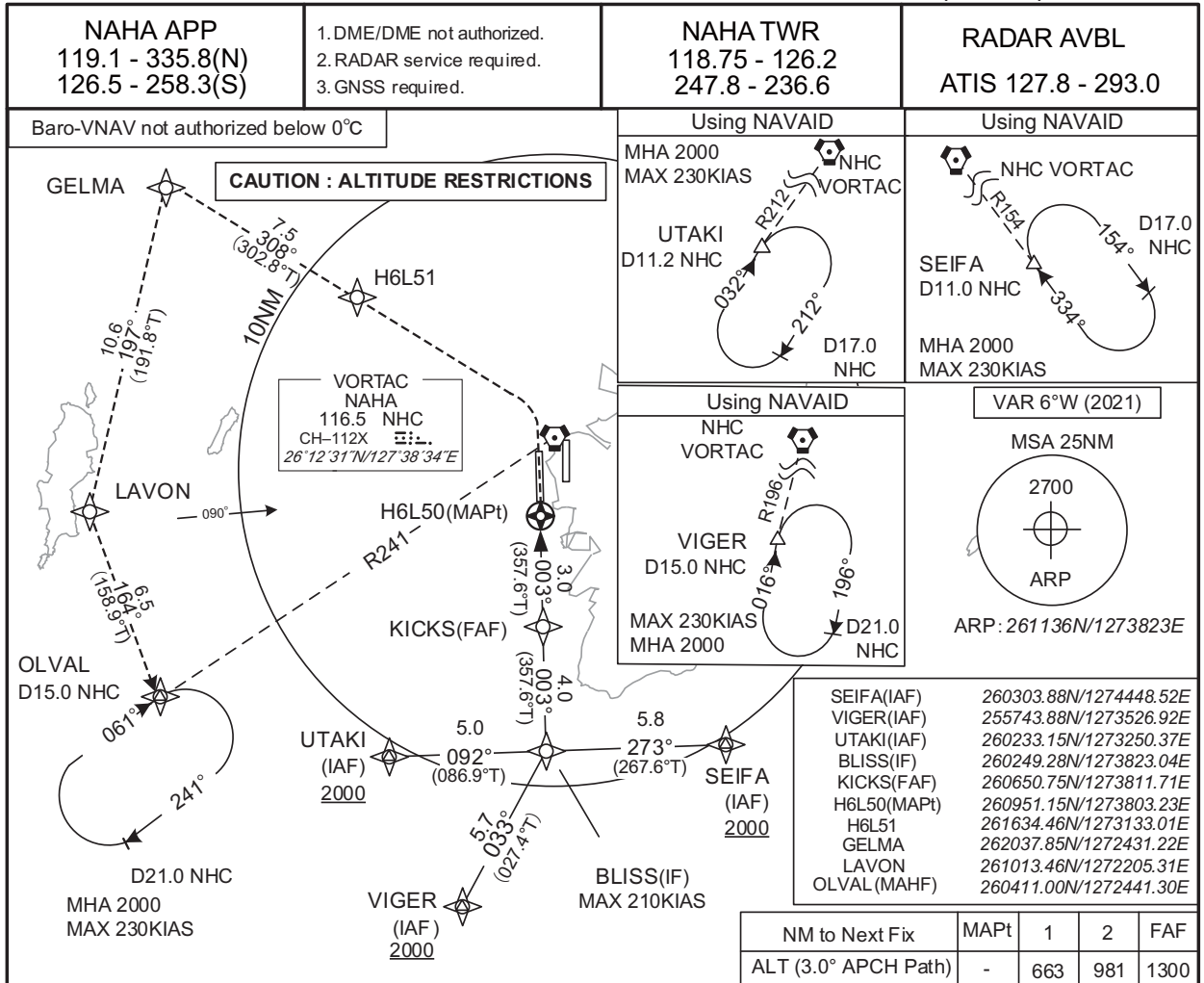
MINIMA		THR elev. 9		AD elev. 11		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	410 (401)	900	410 (399)	900	620 (609)	1600
B		1000		1000		
C						
D						
					2400	
					3200	

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

ROAH / NAHA

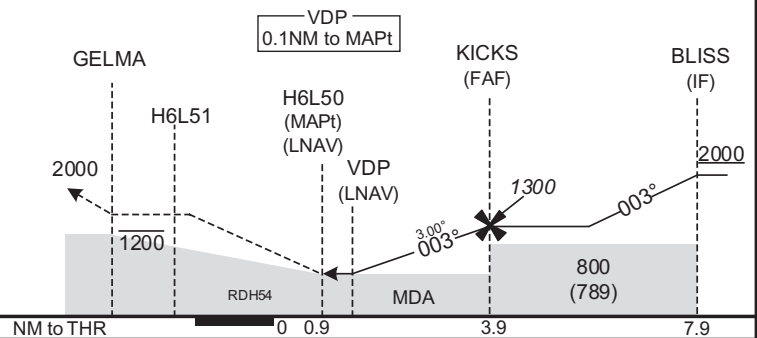
RNAV(GNSS) RWY36L



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 : Sensor for RNAV.

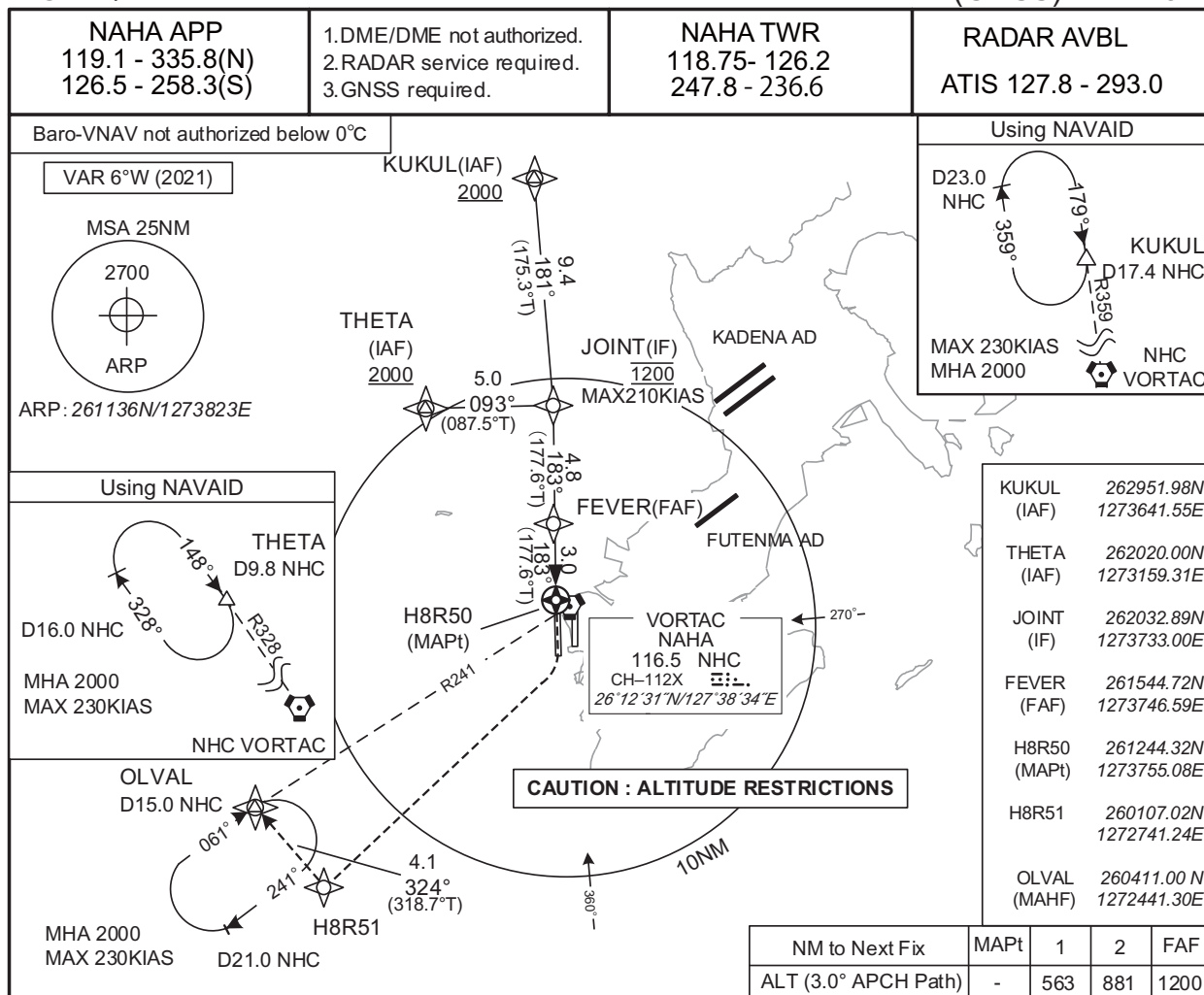
MINIMA		THR elev. 14		AD elev. 11			
CAT	LNAV/VNAV		LNAV		CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	370 (356)	900	370 (359)	900	620 (609)	1600	
B		1000		1000		2400	
C							3200
D							

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

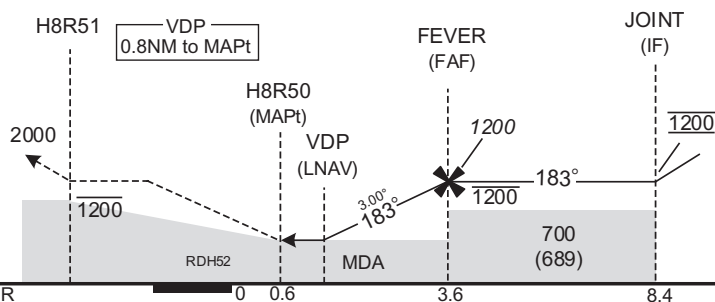
ROAH / NAHA

RNAV(GNSS) RWY18R



MISSED APPROACH

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



CHANGE : Sensor for RNAV.

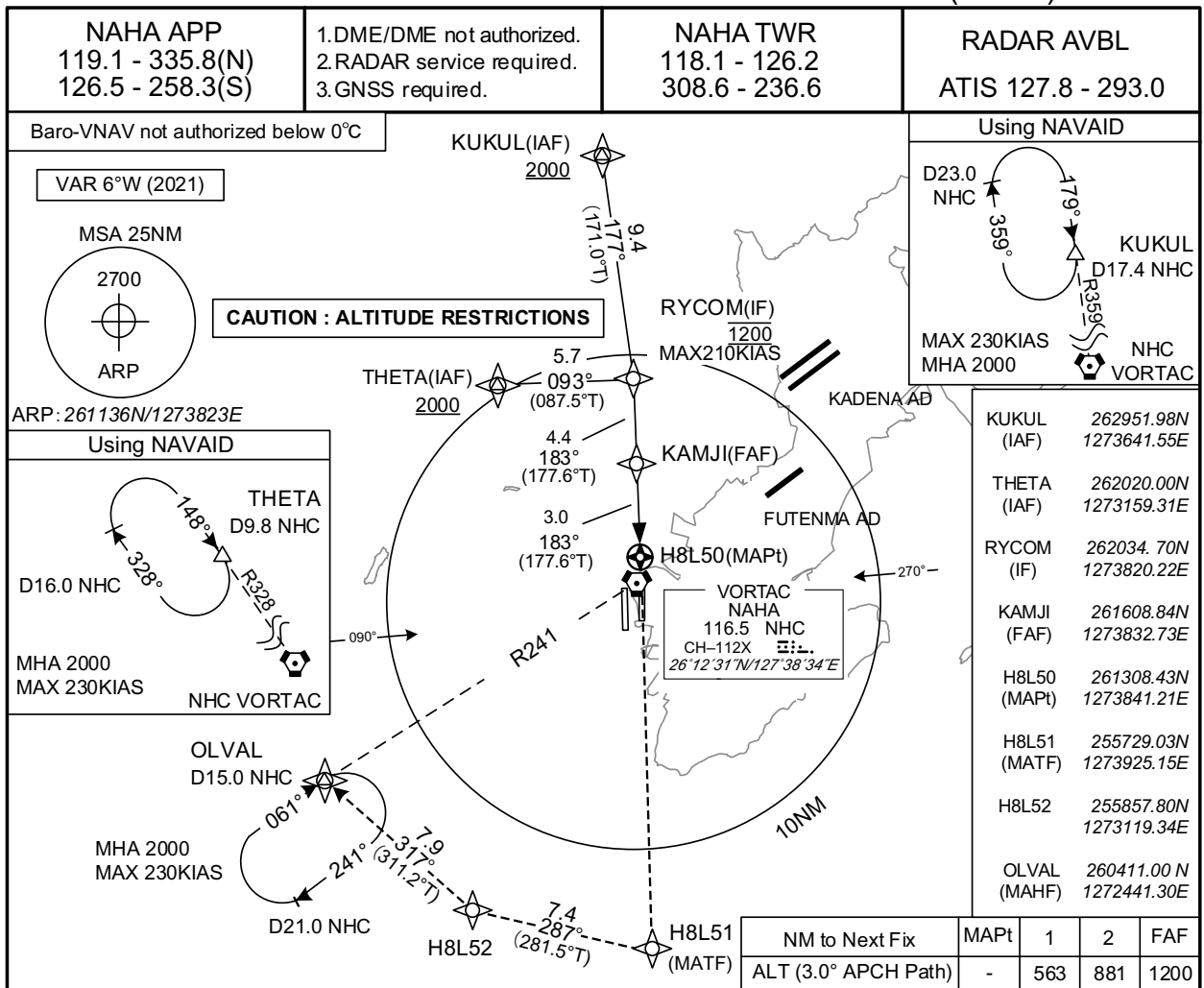
MINIMA		THR elev. 16		AD elev. 11	
CAT	LNAV/VNAV	LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)
A	490 (474)	1000	490 (479)	1000	1600
B		1200		1200	2400
C		1600		1600	3200
D		1600		1600	3200

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

ROAH / NAHA

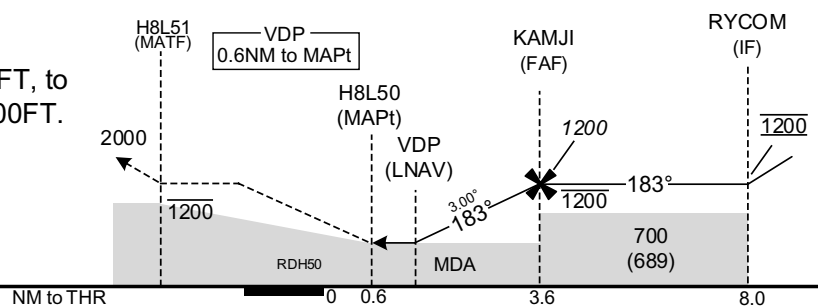
RNAV(GNSS) RWY18L



MISSED APPROACH

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

Contact NAHA APP.



CHANGE : Sensor for RNAV.

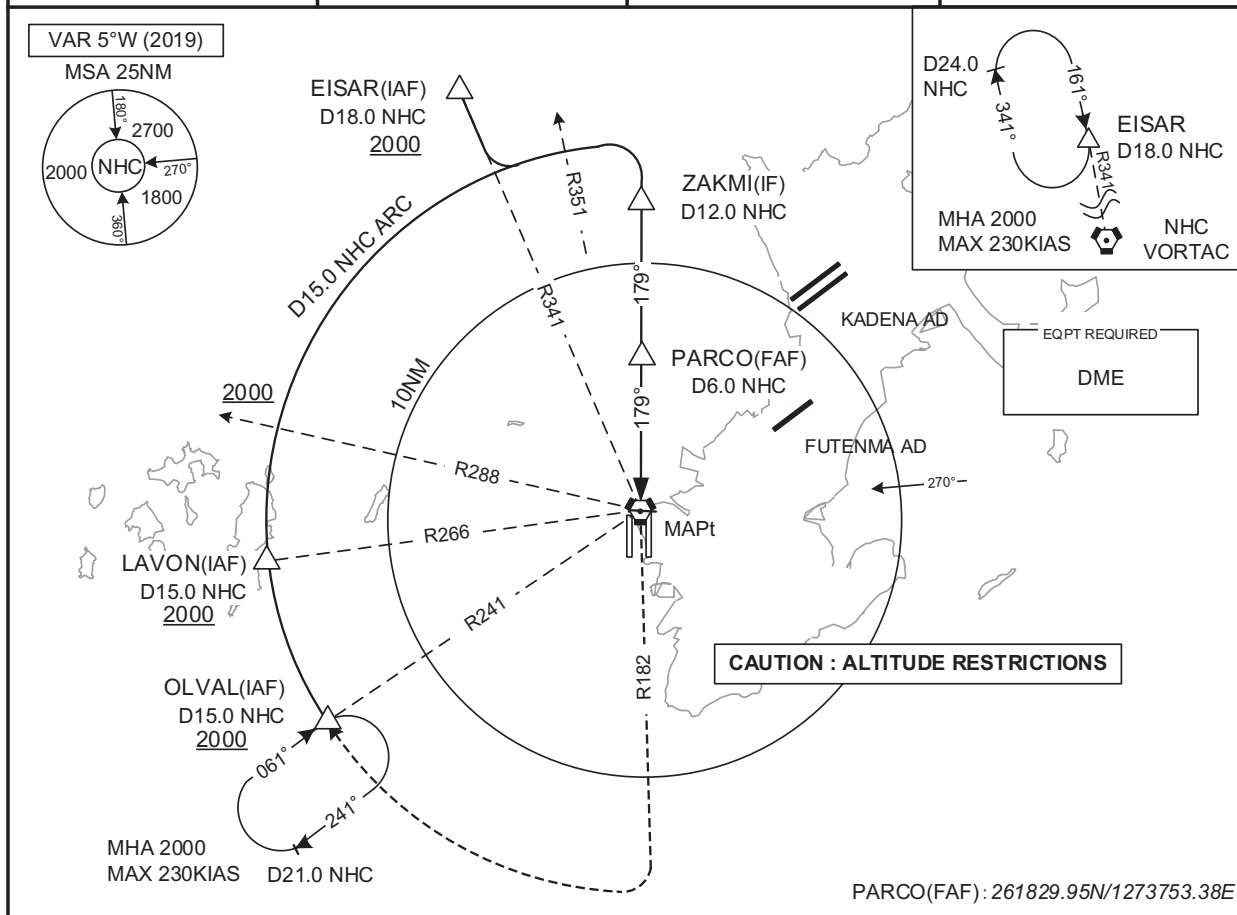
MINIMA		THR elev. 11		AD elev. 11	
CAT	LNAV/VNAV	LNAV	CIRCLING		
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	430 (419)	1200	430 (419)	1200	620 (609) 1600
B		1300		1300	
C		1400		1400	
D		1600		1600	

Circling to WEST side of RWY only.

ROAH / NAHA

VOR A or TACAN B

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
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Climb to 1200FT via NHC R182 to NHC
15.0DME, climb to 2000FT via NHC
15.0DME clockwise ARC to OLVAL and
hold.
Contact NAHA APP.

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

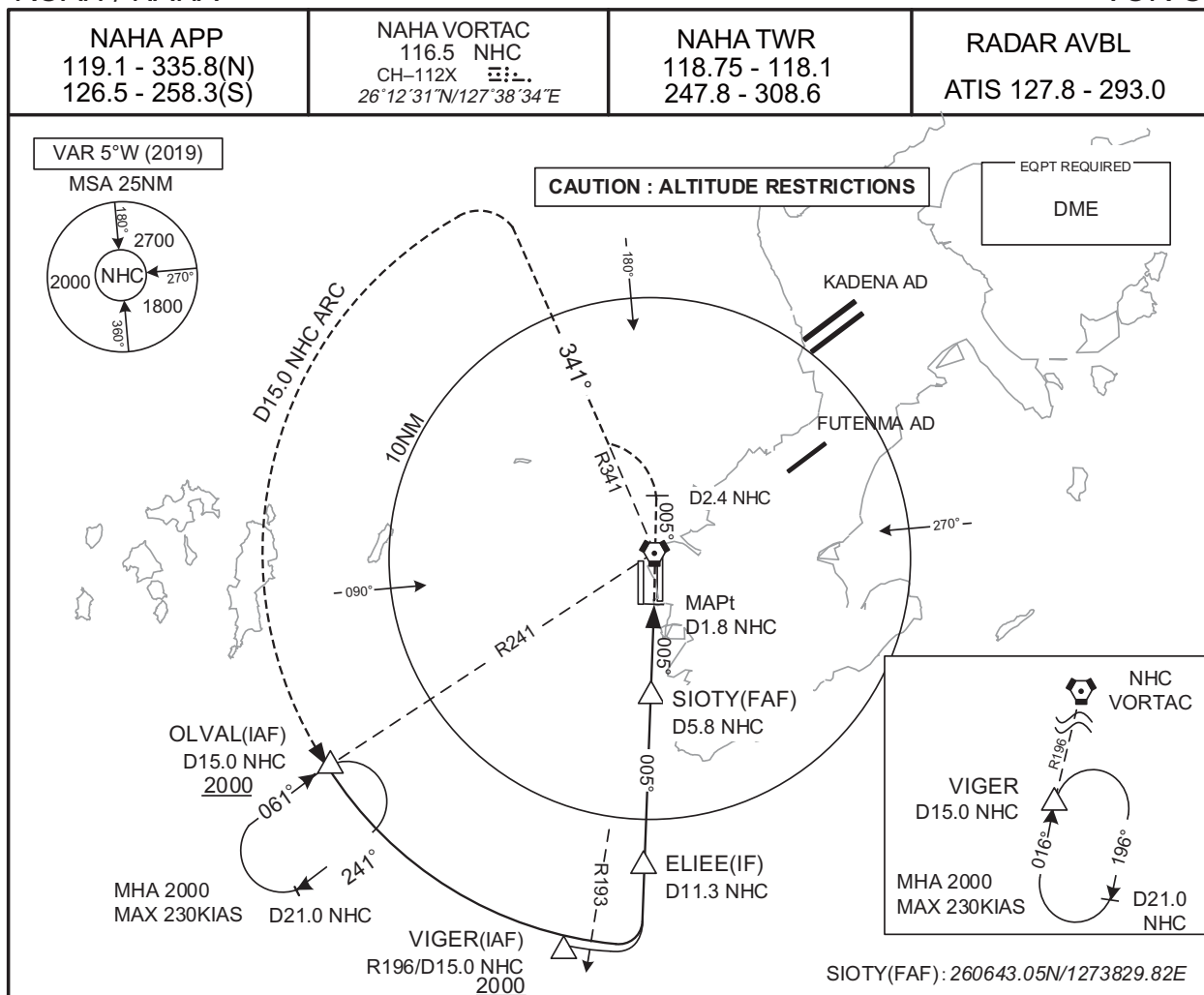
Circling to WEST side of RWY only.

CHANGE: New PROC

INSTRUMENT APPROACH CHART

ROAH / NAHA

VOR C

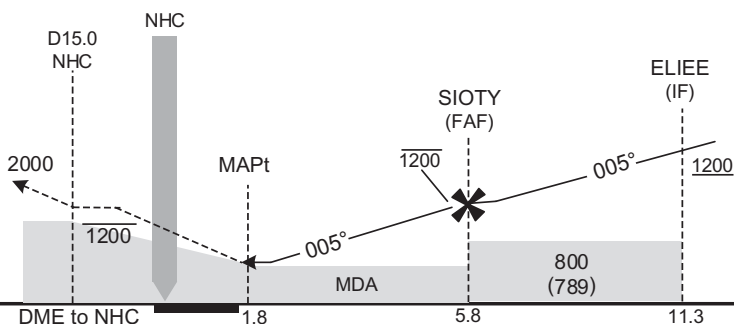


MISSED APPROACH

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 OLVAL and hold.

Contact NAHA APP.

Timing not authorized for defining the MAPt.



CHANGE: New PROC

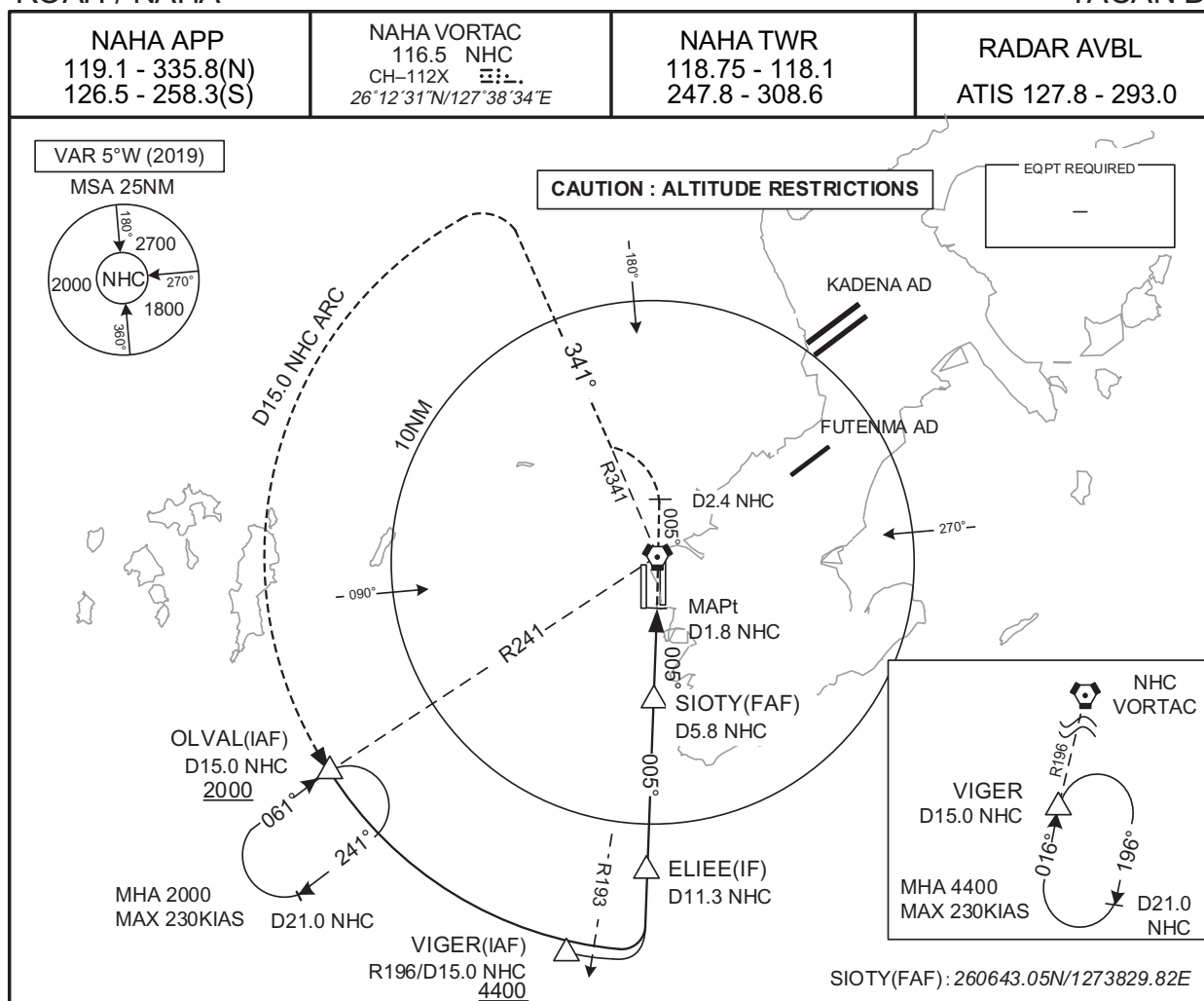
MINIMA		AD elev. 11
CAT	CIRCLING	
	MDA(H)	VIS
A	620 (609)	1600
B		2400
C		3200
D		

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

ROAH / NAHA

TACAN D

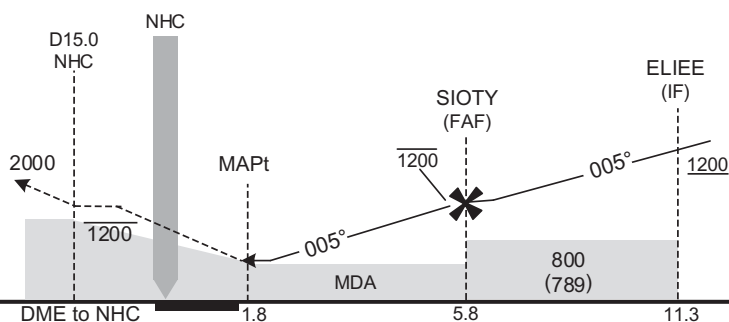


MISSED APPROACH

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 OLVAL and hold.

Contact NAHA APP.

Timing not authorized for defining the MAPt.



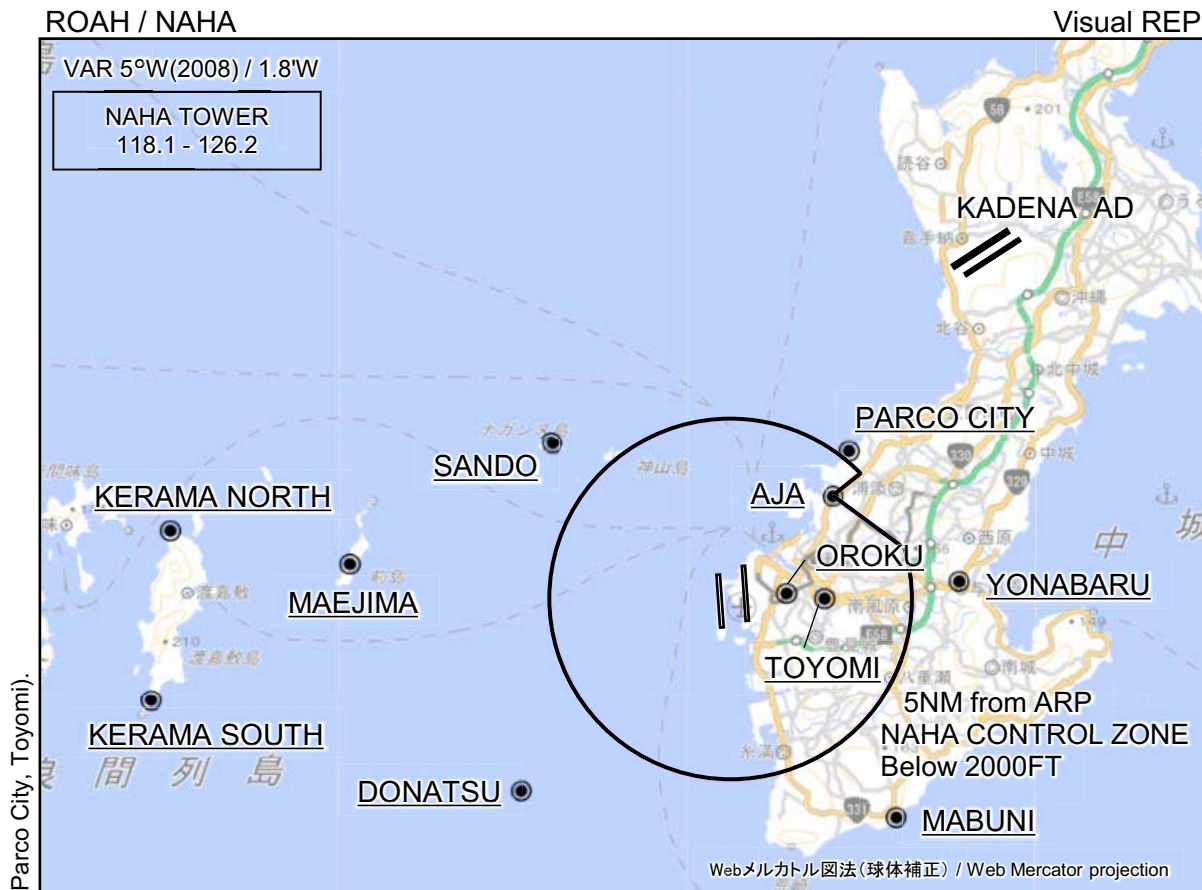
MINIMA

AD elev. 11

CAT	CIRCLING	
	MDA(H)	VIS
A	700 (689)	1600
B		2400
C		3200
D		

Circling to WEST side of RWY only.

CHANGE: New PROC



※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).

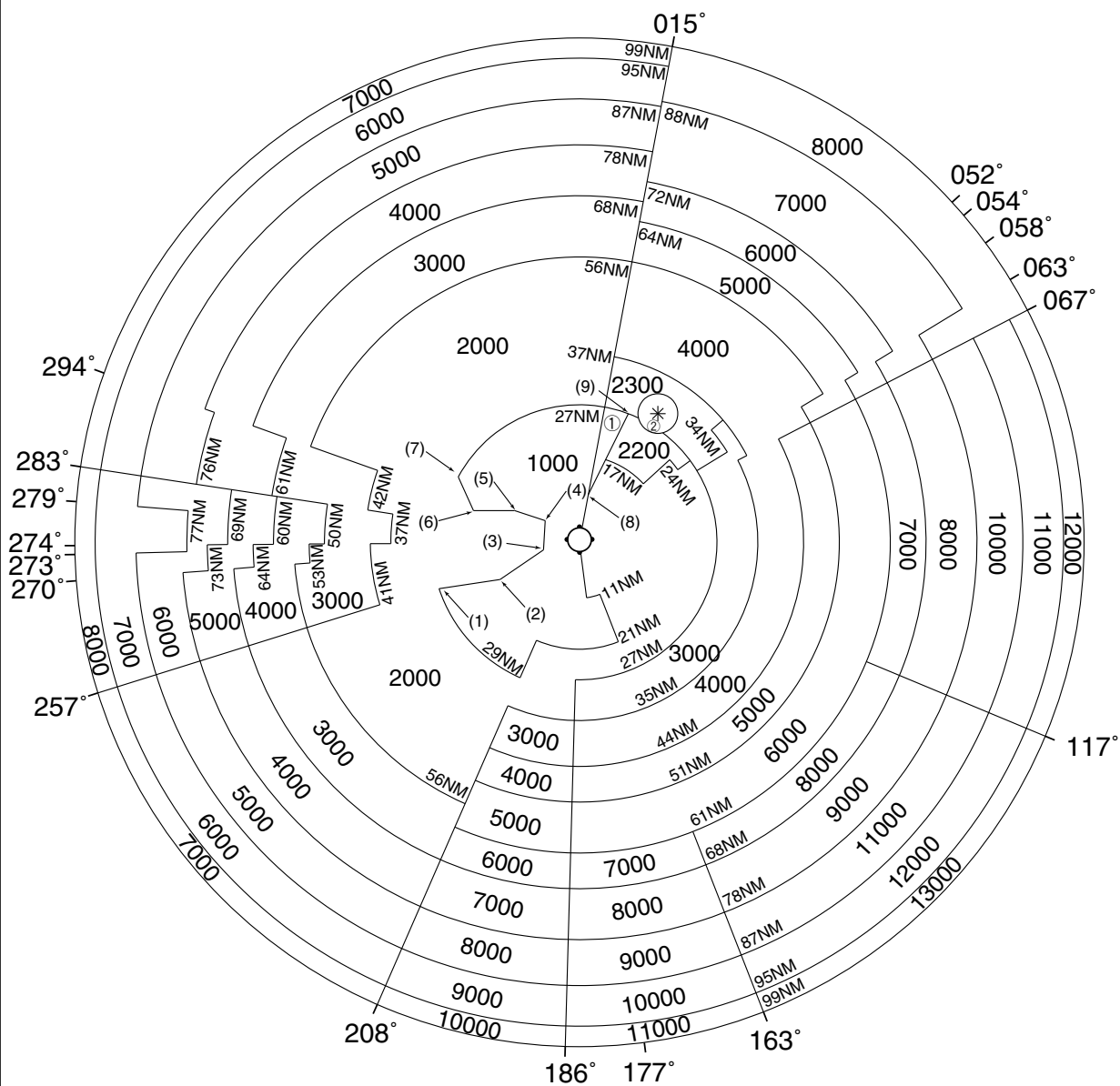
CHANGE : Map updated. BRG/DIST from ARP. Visual REP established(Oroku, Parco City, Toyomi).

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号線与那原交差点 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 CENTER: 261231N/1273834E (NHC)
 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