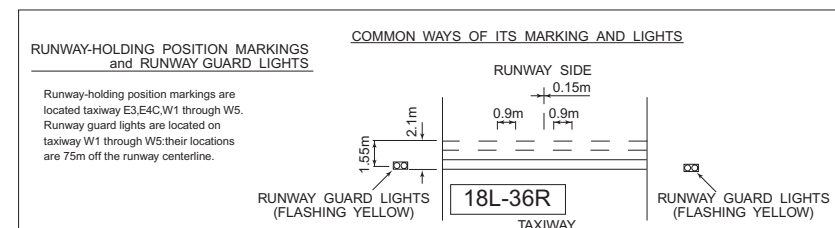
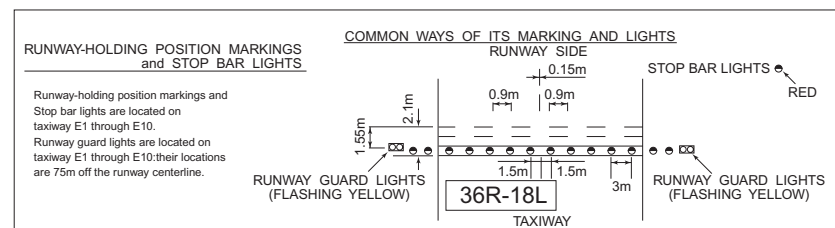


NAHA AIRPORT
ELEV 11ft (3.3m)



Civil Aviation Bureau, Japan (EFF:8 OCT 2020)

ROAH / NAHA

AD CHART

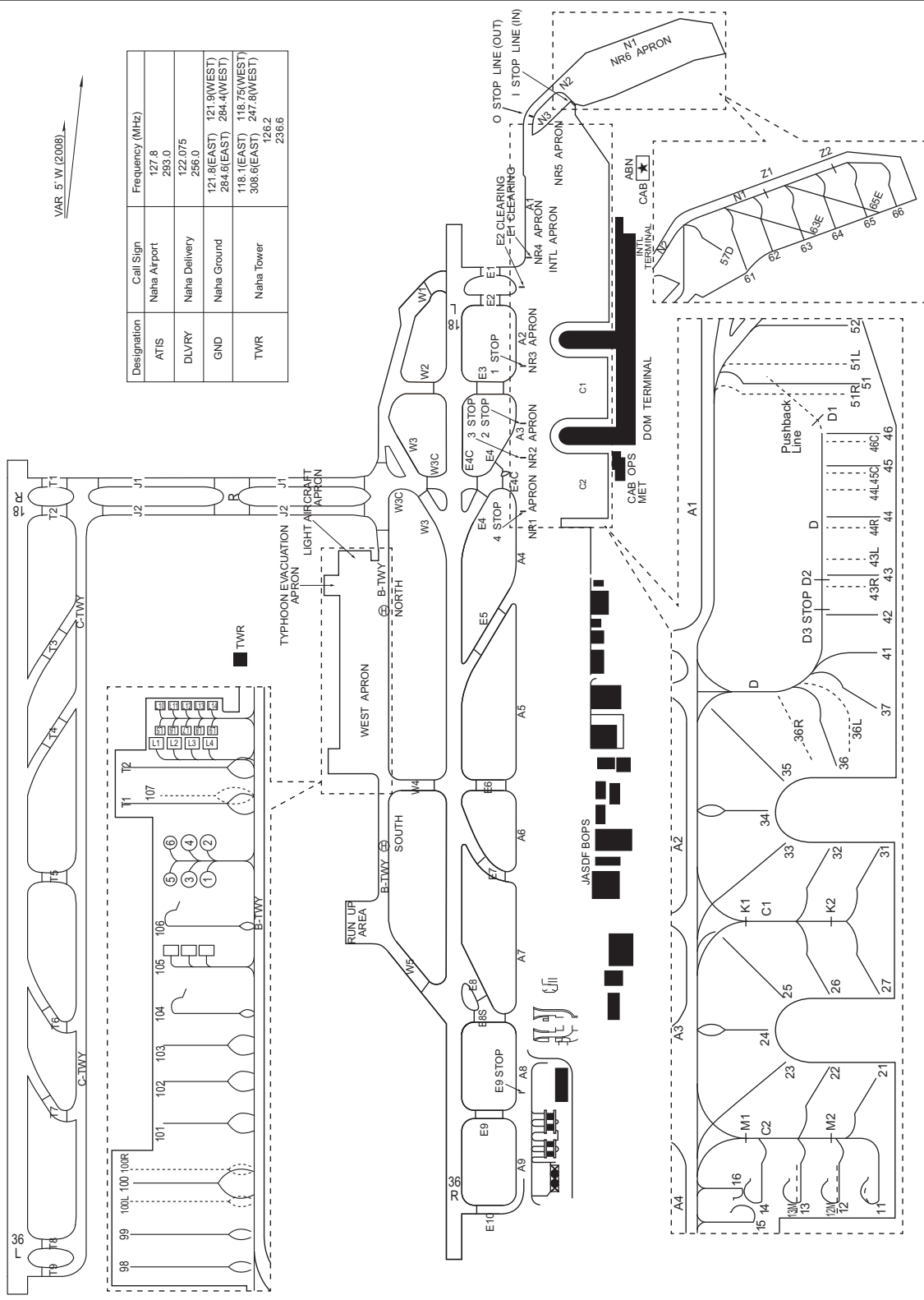
CHANGE : TWY E4C.W3C installed.

NAHA AIRPORT

ELEV 11ft (3.3m)

VAR 5° W (2008)

Designation	Call Sign	Frequency (MHz)
ATIS	Naha Airport	127.8 293.0
DLRY	Naha Delivery	122.075 256.0
GND	Naha Ground	121.8(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

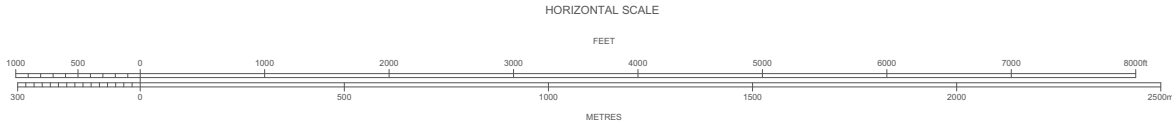
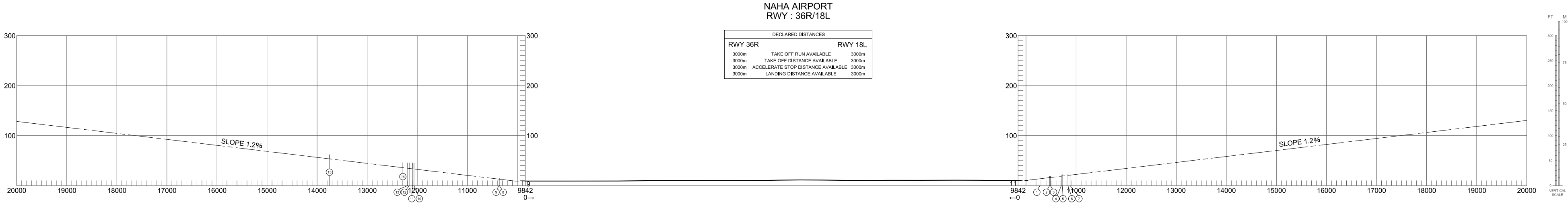


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AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 5°25' W-APR 2020



LEGEND	AMENDMENT RECORD		
	Nr	DATE	ENTERED BY
IDENTIFICATION NUMBER			
POLE, TOWER, SPIRE, ANTENNA, ETC			
AERONAUTICAL GROUND LIGHT			
OBSTRUCTION LIGHT			
BUILDING OR LARGE STRUCTURE			
RAILROAD			
TRANSMISSION LINE OR OVERHEAD CABLE			
LEVEE			
TREE			
LAKE			
RIVER			
CONTOUR(S)			

CHANGE : RWY number

AERODROME OBSTACLE CHART-ICAO

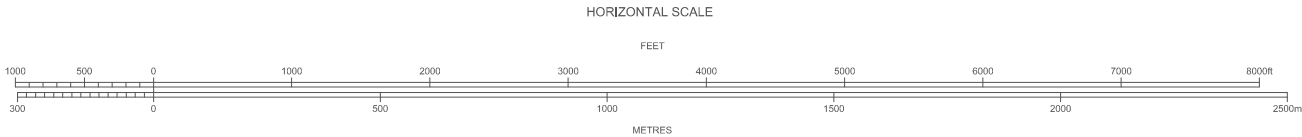
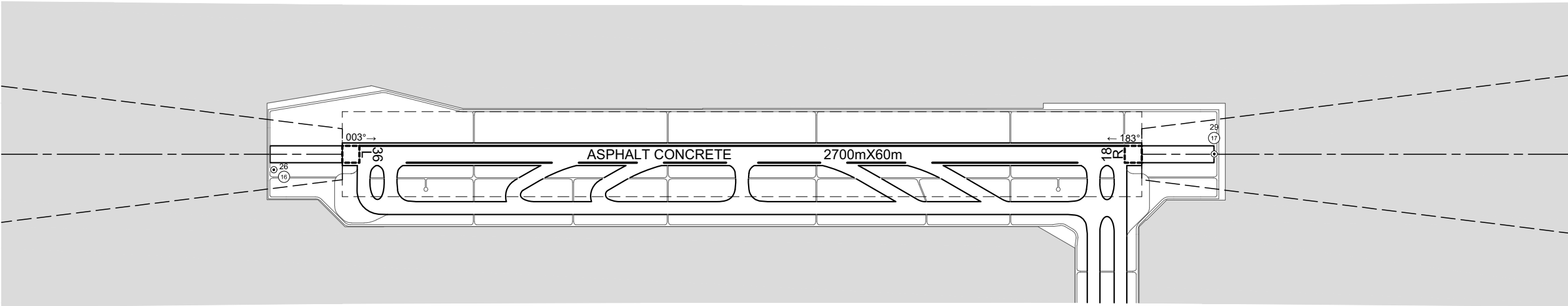
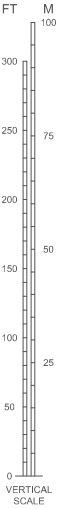
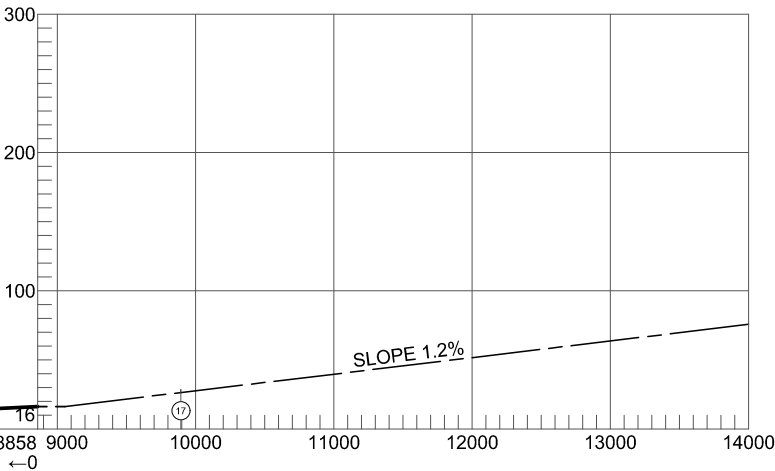
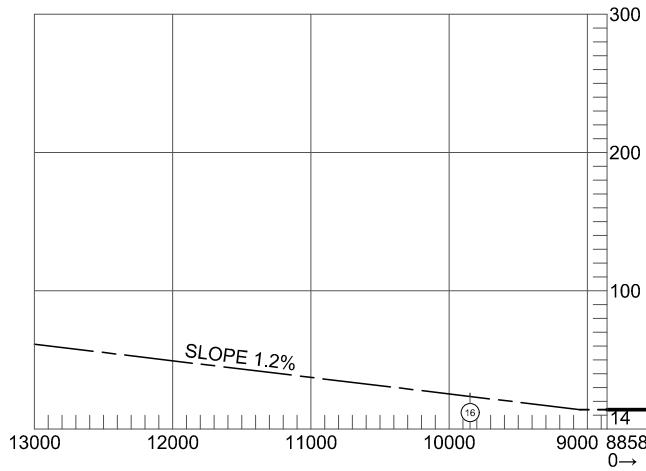
DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

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

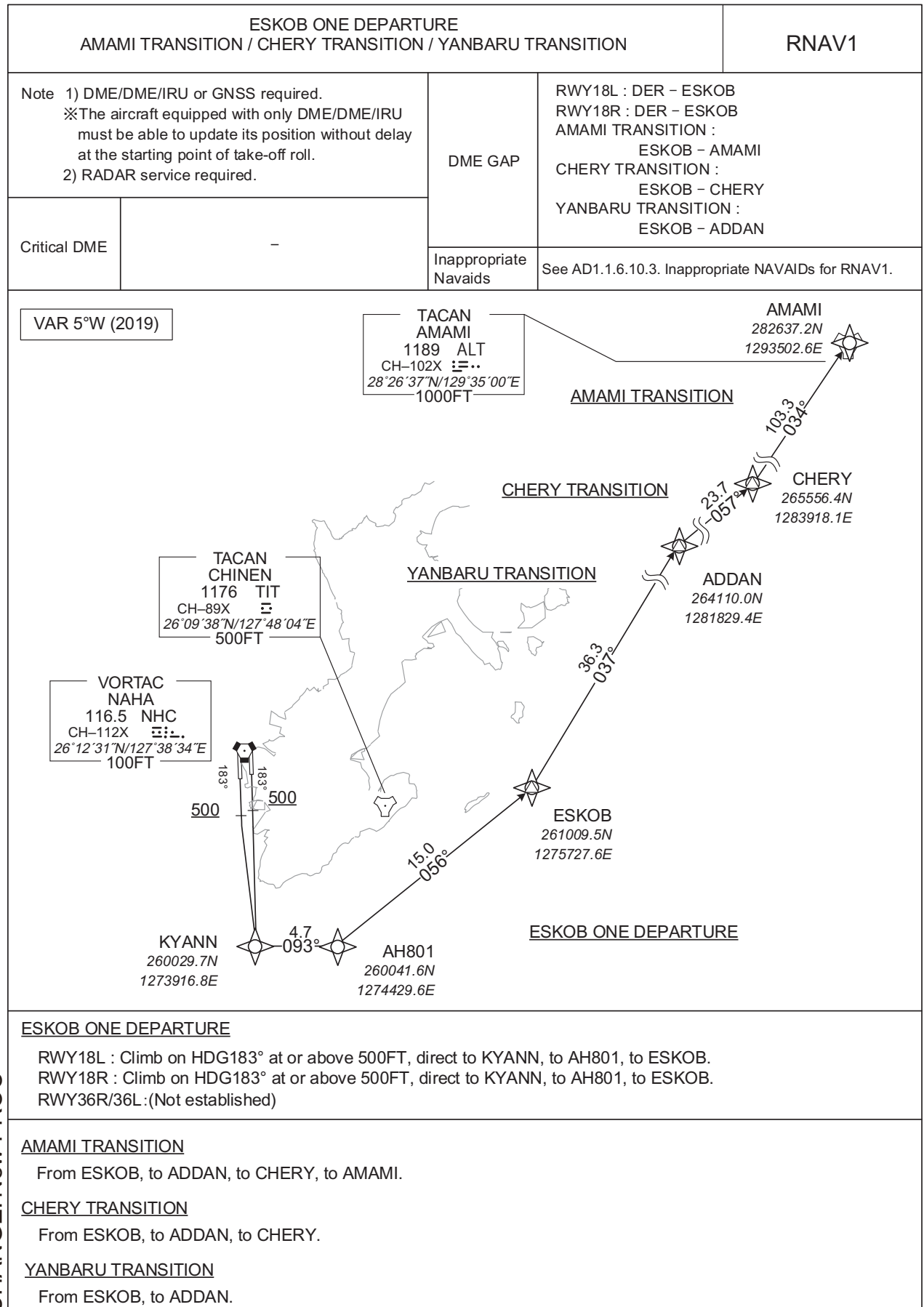
STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION



CHANGE: New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION

ESKOB 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)	-5.4	-	-	+500	-	-	RNAV1
002	DF	KYANN	-	-	-5.4	-	-	-	-	-	RNAV1
003	TF	AH801	-	093 (087.6)	-5.4	4.7	-	-	-	-	RNAV1
004	TF	ESKOB	-	056 (050.9)	-5.4	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)	-5.4	-	-	+500	-	-	RNAV1
002	DF	KYANN	-	-	-5.4	-	-	-	-	-	RNAV1
003	TF	AH801	-	093 (087.6)	-5.4	4.7	-	-	-	-	RNAV1
004	TF	ESKOB	-	056 (050.9)	-5.4	15.0	-	-	-	-	RNAV1

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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	ADDAN	-	037 (031.2)	-5.4	36.3	-	-	-	-	RNAV1
003	TF	CHERY	-	057 (051.4)	-5.4	23.7	-	-	-	-	RNAV1
004	TF	AMAMI	-	034 (028.3)	-5.4	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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	ADDAN	-	037 (031.2)	-5.4	36.3	-	-	-	-	RNAV1
003	TF	CHERY	-	057 (051.4)	-5.4	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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	ADDAN	-	037 (031.2)	-5.4	36.3	-	-	-	-	RNAV1

CHANGE: New PROC

CHANGE: New PROC

Civil Aviation Bureau,Japan (EFF:26 MAR 2020) 27/2/20

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION

VIGER 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)	-5.4	-	-	+500	-	-	RNAV1
002	DF	H8L00	Y	-	-5.4	-	-	-	-	-	RNAV1
003	DF	VIGER	-	-	-5.4	-	R	-	-	-	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)	-5.4	-	-	+500	-	-	RNAV1
002	DF	VIGER	-	-	-5.4	-	R	-	-	-	RNAV1

CANOP 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	VIGER	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	CANOP	-	226 (220.4)	-5.4	36.5	-	-	-	-	RNAV1

DORIS 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	VIGER	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	DORIS	-	284 (278.2)	-5.4	48.6	-	-	-	-	RNAV1

CHANGE: New PROC

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.

VAR 5°W (2019)

KIZNA ONE 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.

CHANGE: New PROC

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)	-5.4	-	-	+500	-	-	RNAV1
002	DF	H6R00	Y	-	-5.4	-	-	-	-	-	RNAV1
003	DF	KIZNA	-	-	-5.4	-	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)	-5.4	-	-	+500	-	-	RNAV1
002	DF	KIZNA	-	-	-5.4	-	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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	OKUMA	-	068 (062.7)	-5.4	30.8	-	-	-	-	RNAV1

CHANGE: New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

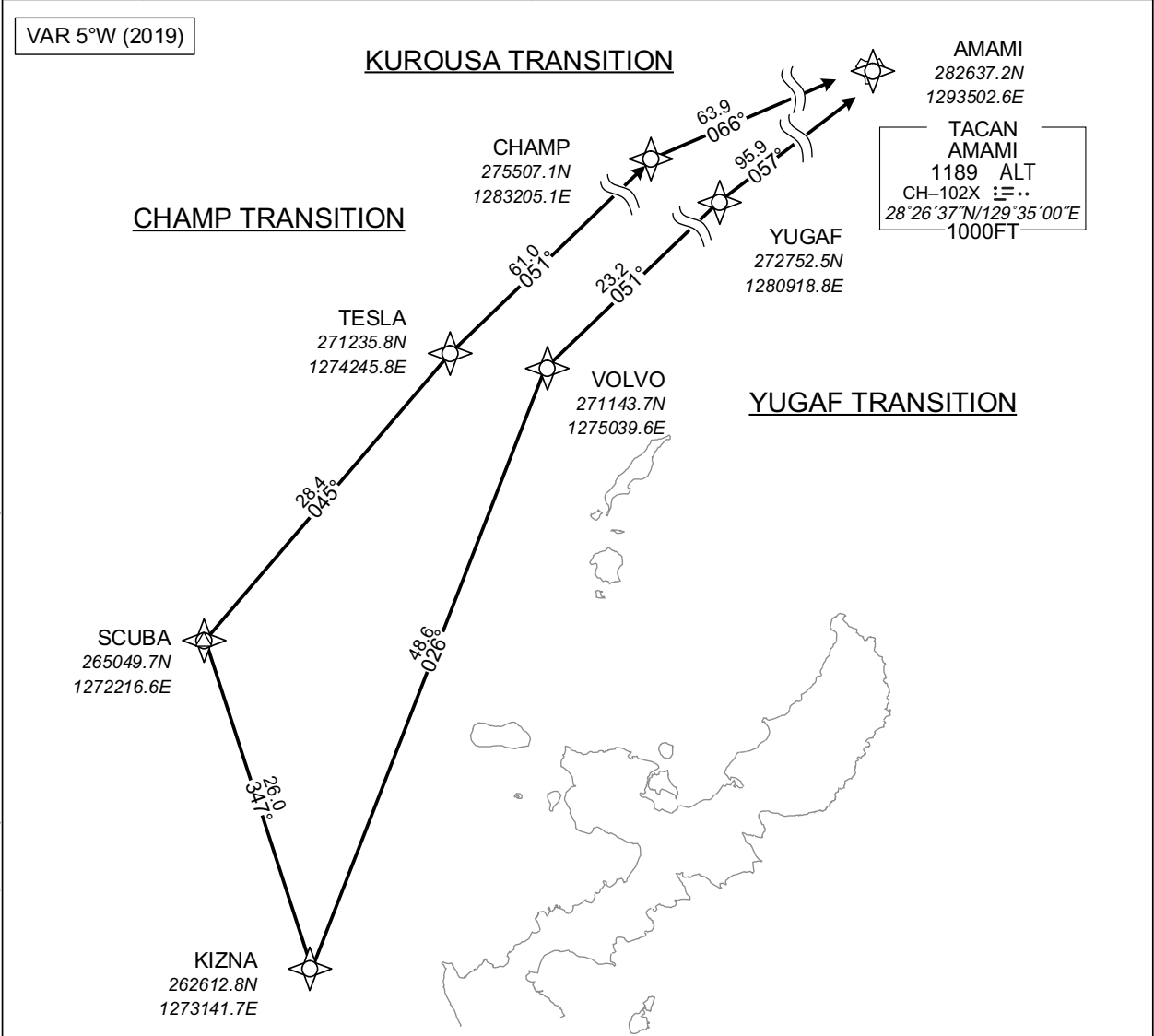
ROAH/NAHA

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 5°W (2019)

CHANGE: Correction of misdescription (Critical DME ↔ DME GAP).



- 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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	SCUBA	-	347 (341.2)	-5.4	26.0	-	-	-	-	RNAV1
003	TF	TESLA	-	045 (039.9)	-5.4	28.4	-	-	-	-	RNAV1
004	TF	CHAMP	-	051 (045.6)	-5.4	61.0	-	-	-	-	RNAV1
005	TF	AMAMI	-	066 (060.2)	-5.4	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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	SCUBA	-	347 (341.2)	-5.4	26.0	-	-	-	-	RNAV1
003	TF	TESLA	-	045 (039.9)	-5.4	28.4	-	-	-	-	RNAV1
004	TF	CHAMP	-	051 (045.6)	-5.4	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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	VOLVO	-	026 (020.3)	-5.4	48.6	-	-	-	-	RNAV1
003	TF	YUGAF	-	051 (045.7)	-5.4	23.2	-	-	-	-	RNAV1
004	TF	AMAMI	-	057 (051.9)	-5.4	95.9	-	-	-	-	RNAV1

CHANGE: New PROC

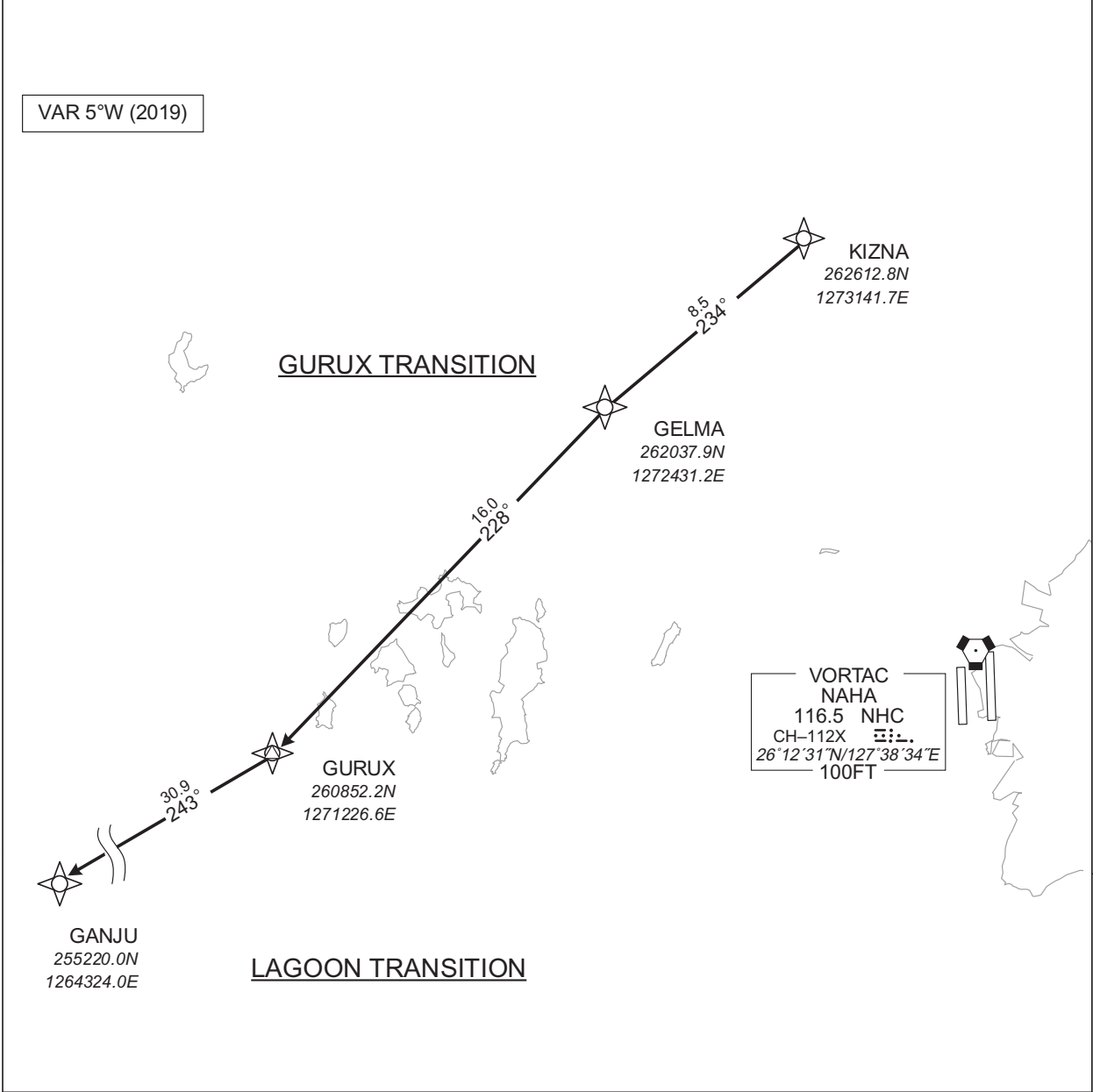
STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/ NAHA

RNAV TRANSITION

GURUX TRANSITION LAGOON TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.		DME GAP	GURUX TRANSITION : KIZNA – GURUX LAGOON TRANSITION KIZNA – GANJU
Critical DME	–	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

CHANGE: Correction of misdescription (Critical DME ↔ DME GAP).



<u>GURUX TRANSITION</u> From KIZNA, to GELMA, to GURUX.
<u>LAGOON TRANSITION</u> From KIZNA, to GELMA, to GURUX, to GANJU.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV TRANSITION

GURUX 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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	GELMA	-	234 (229.0)	-5.4	8.5	-	-	-	-	RNAV1
003	TF	GURUX	-	228 (222.7)	-5.4	16.0	-	-	-	-	RNAV1

LAGOON 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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	GELMA	-	234 (229.0)	-5.4	8.5	-	-	-	-	RNAV1
003	TF	GURUX	-	228 (222.7)	-5.4	16.0	-	-	-	-	RNAV1
004	TF	GANJU	-	243 (237.7)	-5.4	30.9	-	-	-	-	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.

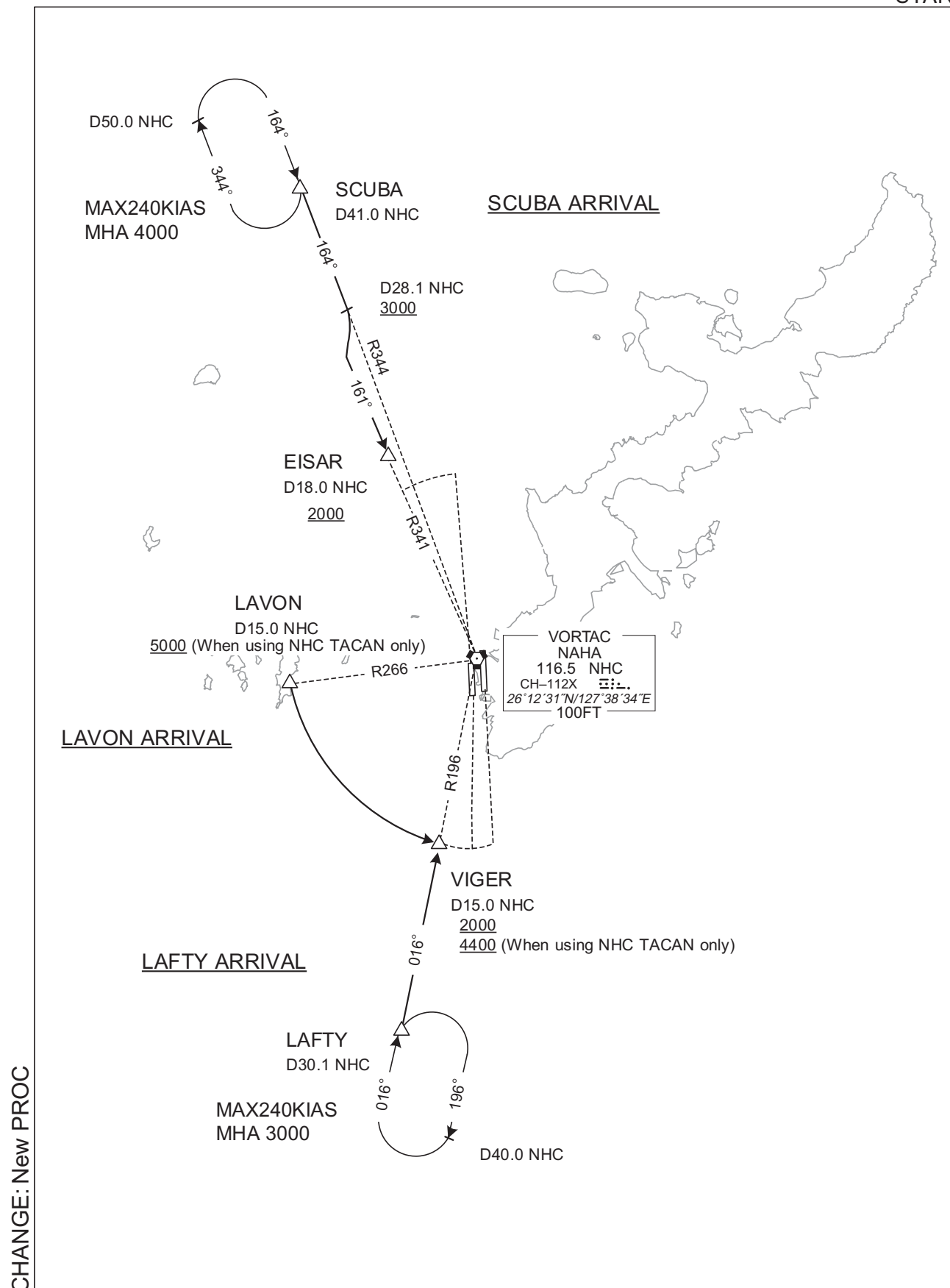
Cross VIGER at or above 4400FT.

CHANGE: New PROC

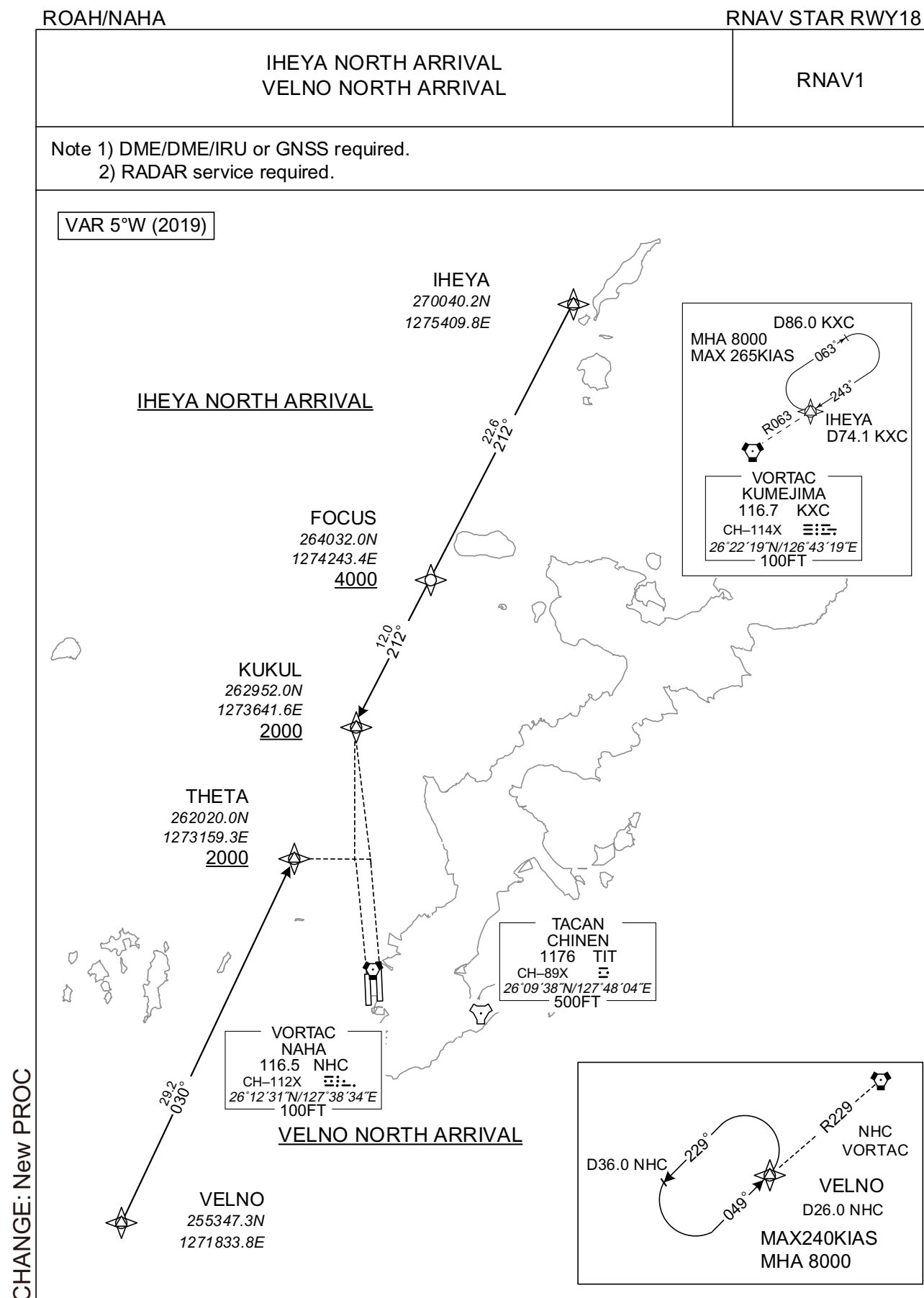
STANDARD ARRIVAL CHART-INSTRUMENT

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 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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	FOCUS	-	212 (206.9)	-5.4	22.6	-	+4000	-	-	RNAV1
003	TF	KUKUL	-	212 (206.8)	-5.4	12.0	-	+2000	-	-	RNAV1

VELNO NORTH ARRIVAL

From VELNO, to THETA at or above 2000FT.

Critical DME	–
DME GAP	VELNO – THETA
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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	THETA	-	030 (024.4)	-5.4	29.2	-	+2000	-	-	RNAV1

CHANGE: New PROC

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 5°W (2019)

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 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	OKUMA	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	CLIFF	-	251 (245.7)	-5.4	17.1	-	+2700	-	-	RNAV1
003	TF	KUKUL	-	251 (245.5)	-5.4	8.1	-	+2000	-	-	RNAV1

CHANGE: New PROC

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 5°W (2019)

GUPTI NORTH ARRIVALGUPTI
290124.5N
1280918.7E
FL200IHEYA
270040.2N
1275409.8EKUKUL
262952.0N
1273641.6E
200099.2
094°37.2
095°ENTOK
261914.3N
1245953.8E
FL170YEEZY
262018.1N
1265032.5E
2100THETA
262020.0N
1273159.3E
2000ENTOK NORTH ARRIVALVORTAC
NAHA
116.5 NHC
CH-112X
26°12'31"N/127°38'34"E
100FTTACAN
CHINEN
1176 TIT
CH-89X
26°09'38"N/127°48'04"E
500FT

CHANGE: New PROC

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	-	-	-5.4	-	-	+FL200	-	-	Basic RNP1
002	TF	IHEYA	-	192 (186.4)	-5.4	121.6	-	-	-	-	Basic RNP1
003	TF	KUKUL	-	212 (206.9)	-5.4	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	-	-	-5.4	-	-	+FL170	-	-	Basic RNP1
002	TF	YEEZY	-	094 (089.0)	-5.4	99.2	-	+2100	-	-	Basic RNP1
003	TF	THETA	-	095 (089.8)	-5.4	37.2	-	+2000	-	-	Basic RNP1

CHANGE: New PROC

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 5°W (2019)



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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	HASSA	-	184 (178.5)	-5.4	37.1	-	+11000	-	-	RNAV1
003	TF	SEIFA	-	210 (204.6)	-5.4	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	-	-	-5.4	-	-	-	-	-	RNAV1
002	TF	VIGER	-	081 (075.4)	-5.4	15.7	-	+2000	-	-	RNAV1

CHANGE: New PROC

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	-	-	-5.4	-	-	+FL200	-	-	Basic RNP1
002	TF	IHEYA	-	192 (186.4)	-5.4	121.6	-	-	-	-	Basic RNP1
003	TF	HASSA	-	184 (178.5)	-5.4	37.1	-	+11000	-	-	Basic RNP1
004	TF	SEIFA	-	210 (204.6)	-5.4	22.6	-	+2000	-	-	Basic RNP1

ENTOK SOUTH ARRIVAL

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

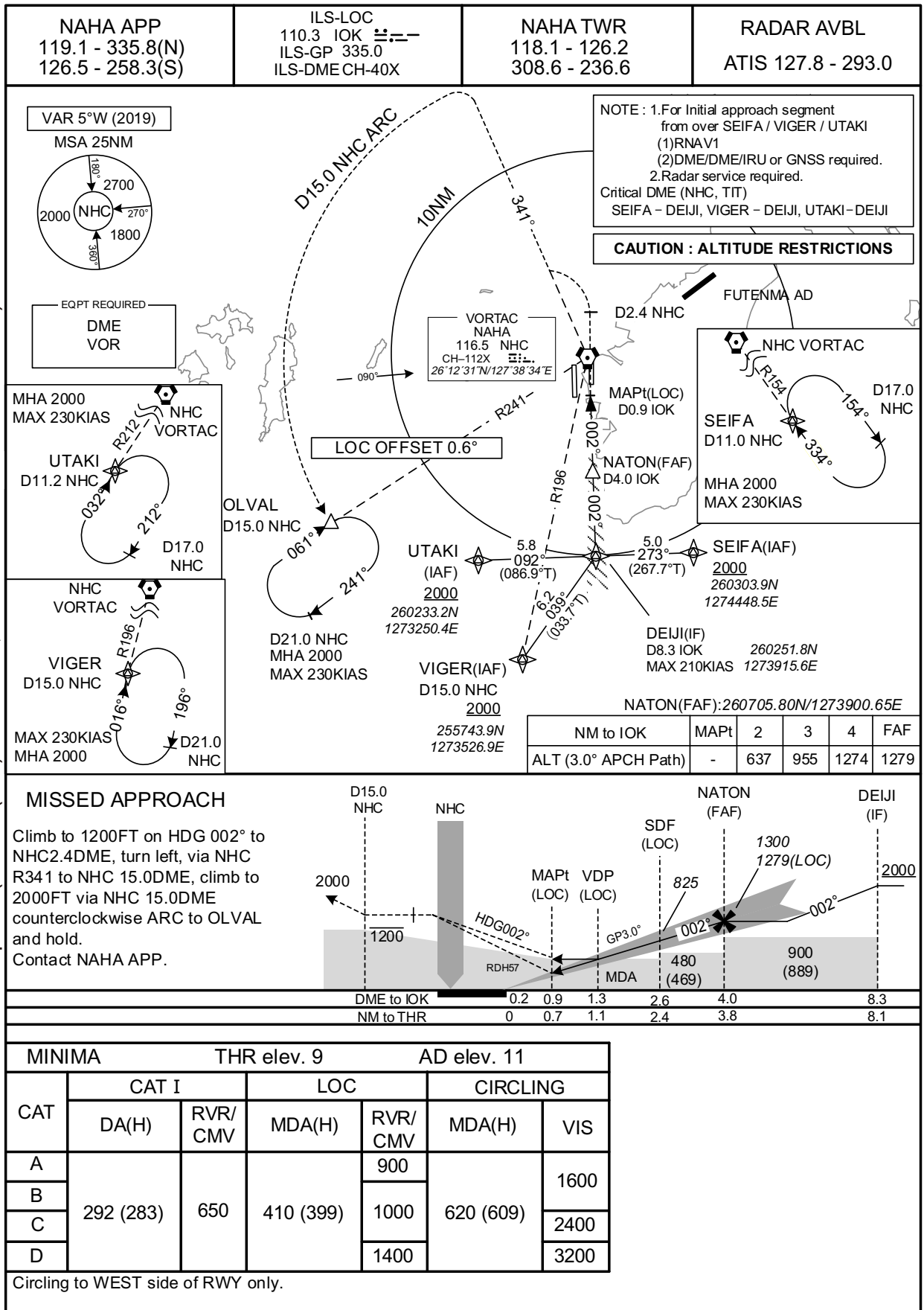
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.4	-	-	+FL170	-	-	Basic RNP1
002	TF	VIGER	-	104 (098.2)	-5.4	141.4	-	+2000	-	-	Basic RNP1

CHANGE: New PROC

INSTRUMENT APPROACH CHART

ROAH / NAHA

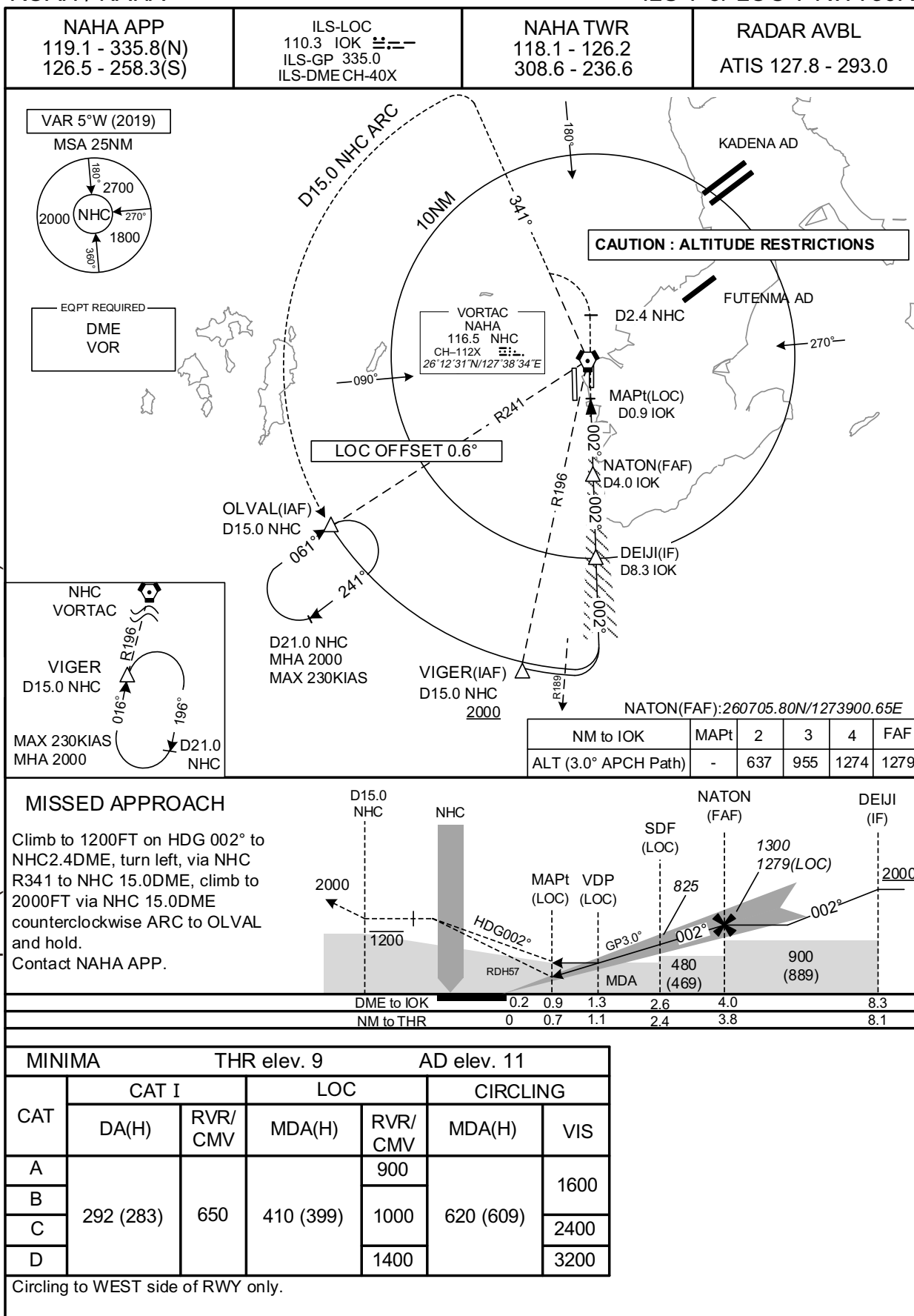
ILS Z or LOC Z RWY36R



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



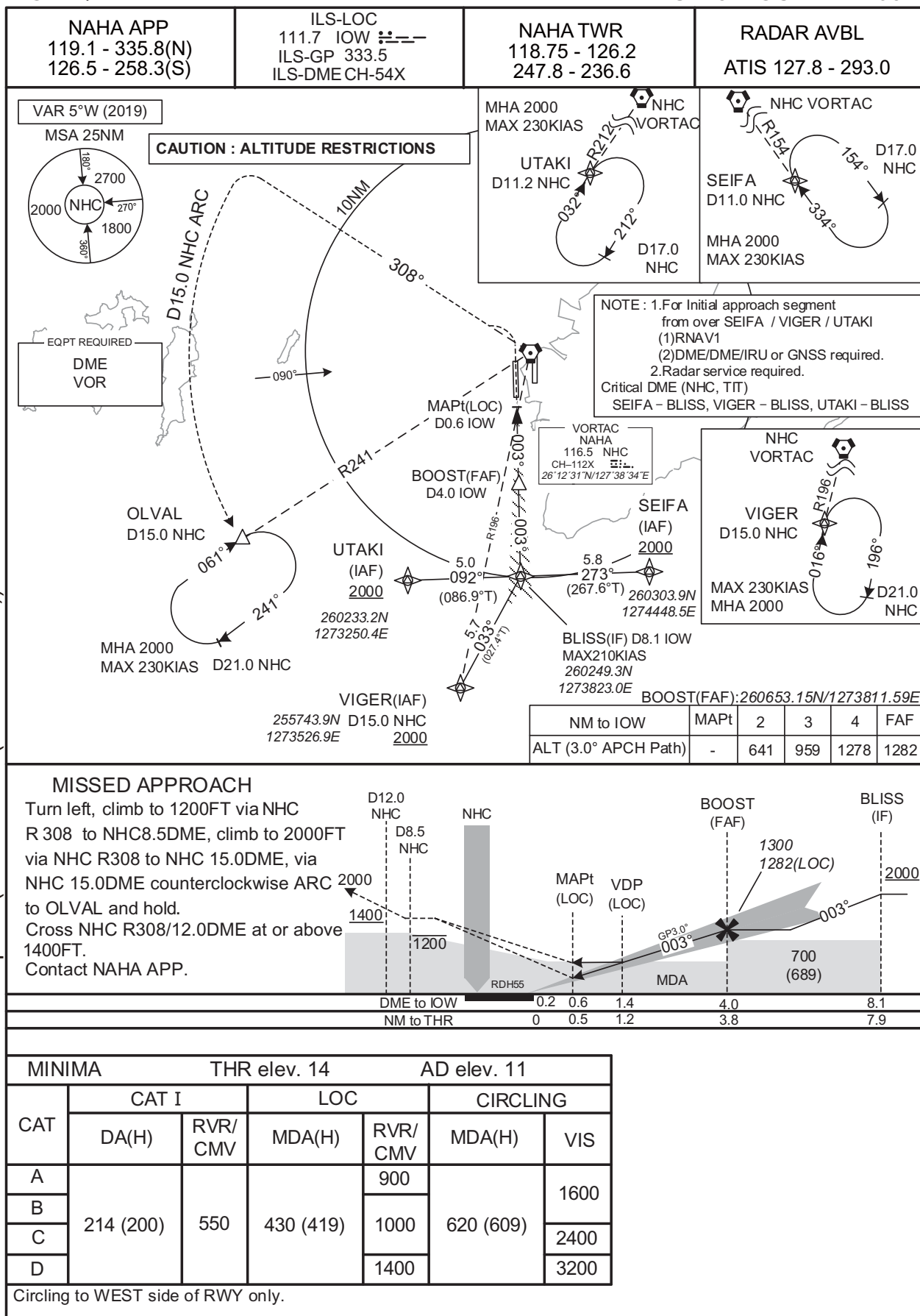
CHANGE: Correction of misdescription (NM to Next IOK → NM to IOK).

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Z or LOC Z RWY36L

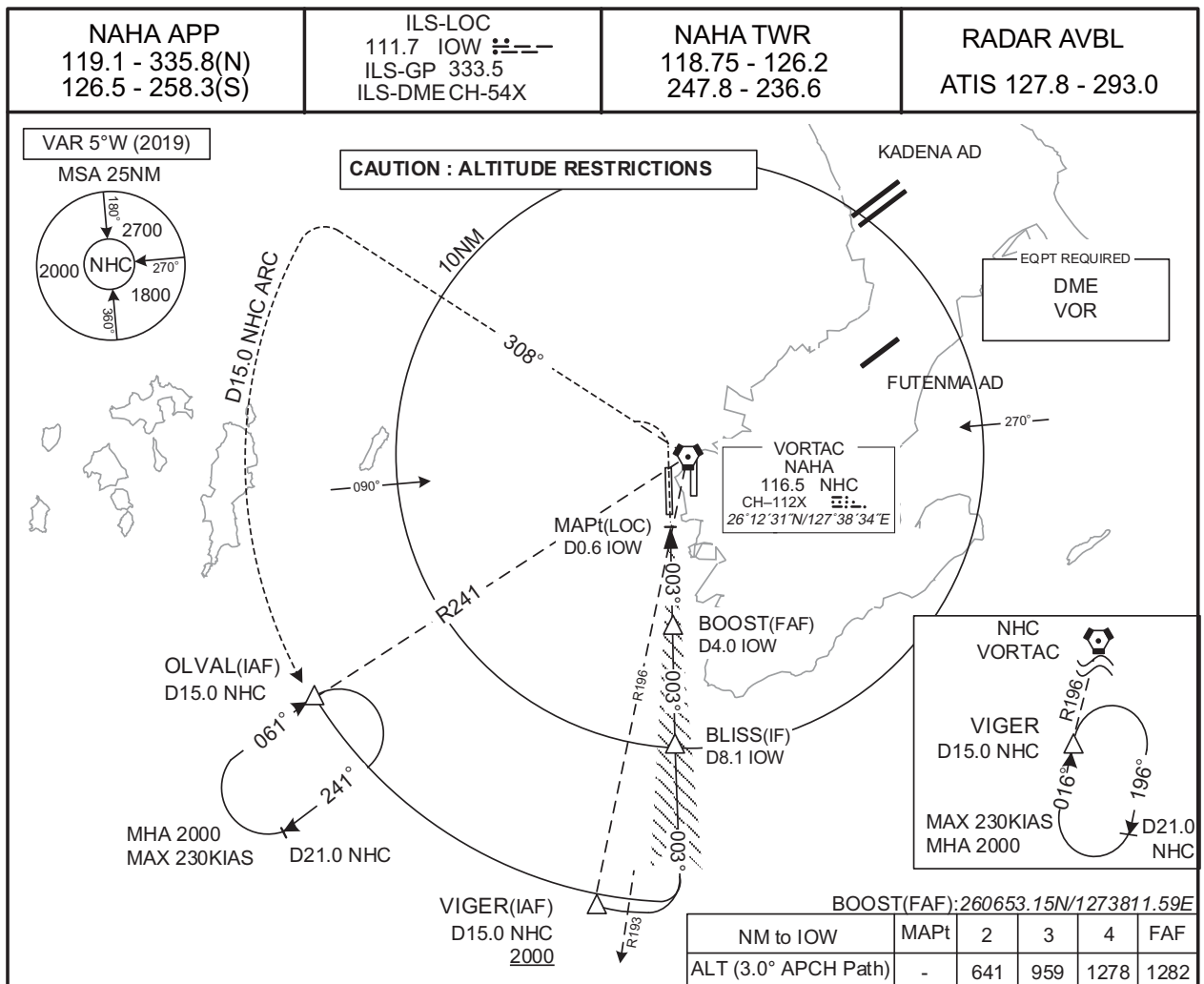
CHANGE: Correction of misdescription (Critical DME (UTAI→UTAKI)).



INSTRUMENT APPROACH CHART

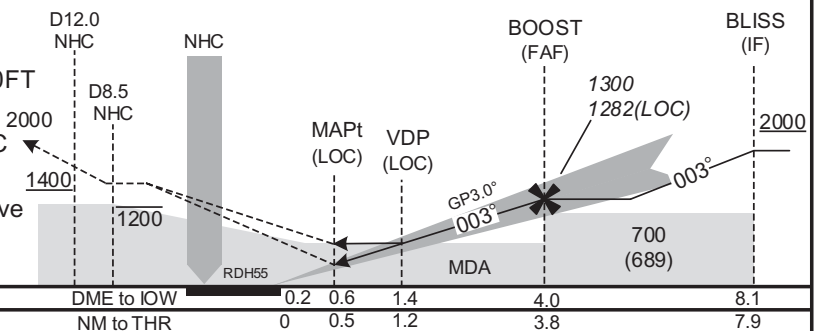
ROAH / NAHA

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

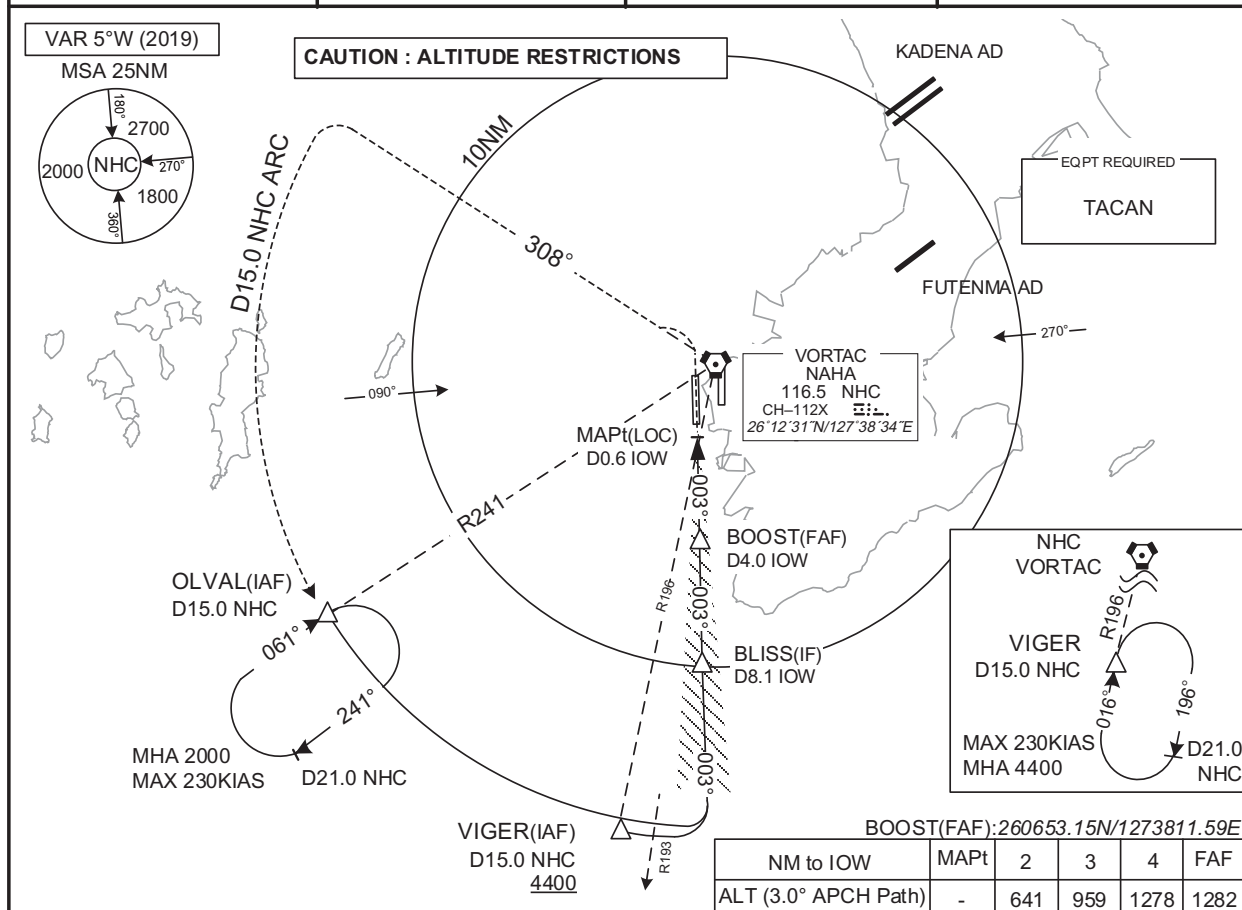
MINIMA		THR elev. 14		AD elev. 11		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	214 (200)	550	430 (419)	900	620 (609)	1600
B				1000		2400
C						
D						

Circling to WEST side of RWY only.

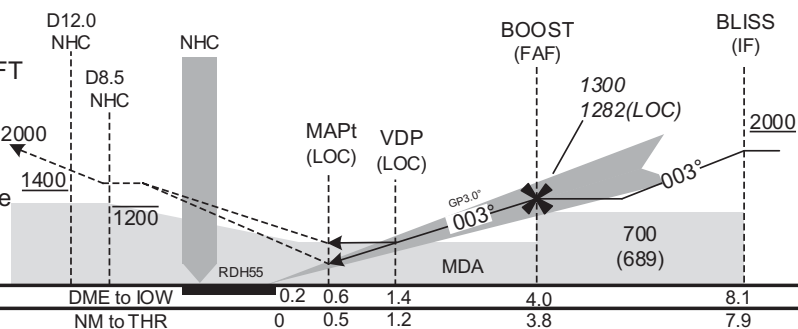
ROAH / NAHA

ILS X or LOC X RWY36L

NAHA APP 119.1 - 335.8(N) 126.5 - 258.3(S)	ILS-LOC 111.7 IOW  ILS-GP 333.5 ILS-DME CH-54X	NAHA TWR 118.75 - 126.2 247.8 - 236.6	RADAR AVBL ATIS 127.8 - 293.0
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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 20
to OLVAL and hold.
Cross NHC R308/12.0DME at or above
1400FT.
Contact NAHA APP.



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							1400	2400
D								3200

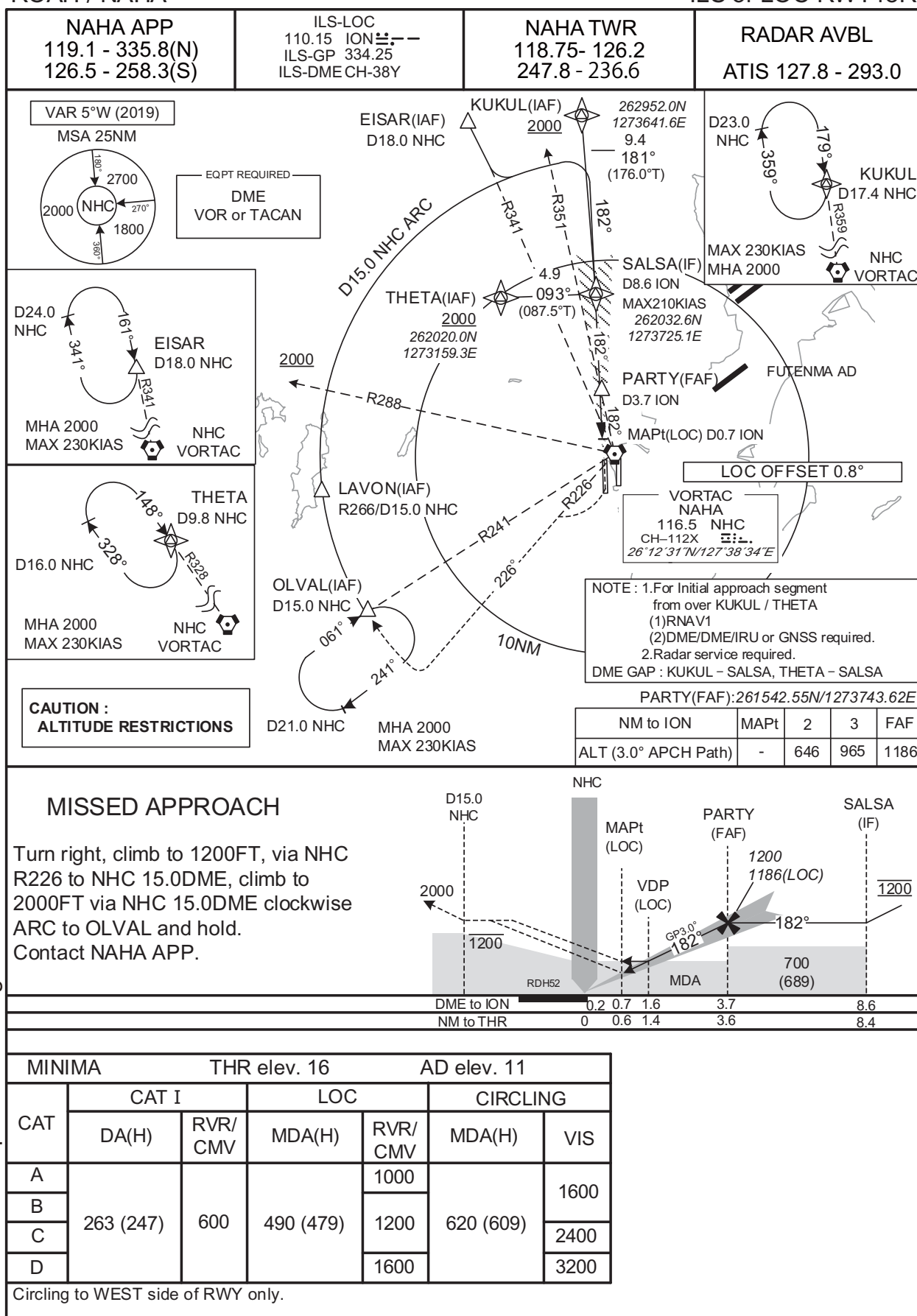
Circling to WEST side of RWY only.

CHANGE: New PROC

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS or LOC RWY18R



INSTRUMENT APPROACH CHART

ROAH / NAHA

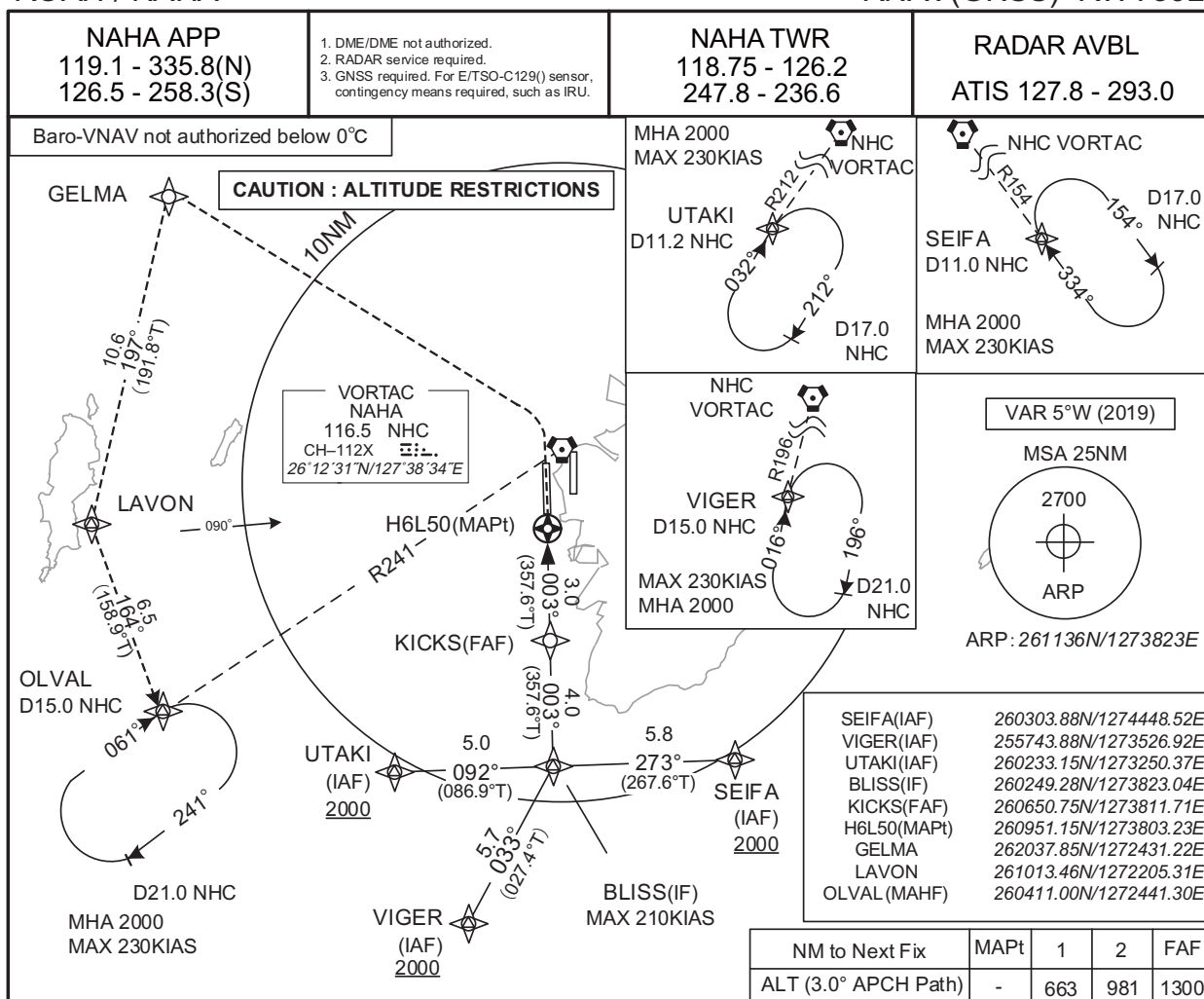
RNAV(GNSS) RWY36R



INSTRUMENT APPROACH CHART

ROAH / NAHA

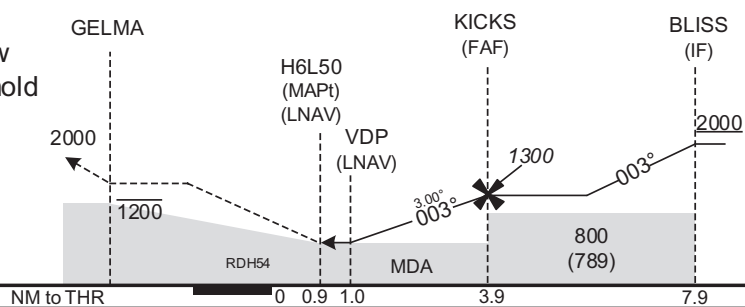
RNAV(GNSS) RWY36L



MISSED APPROACH

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

Contact NAHA APP.



CHANGE: New PROC

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						
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.



MINIMA THR elev. 16 AD elev. 11

CAT	LNAV/VNAV		LNAV		CIRCLING				
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS			
A	490 (474)	1000	490 (479)	1000	620 (609)	1600			
B		1200		1200			2400		
C						1600		1600	3200
D									

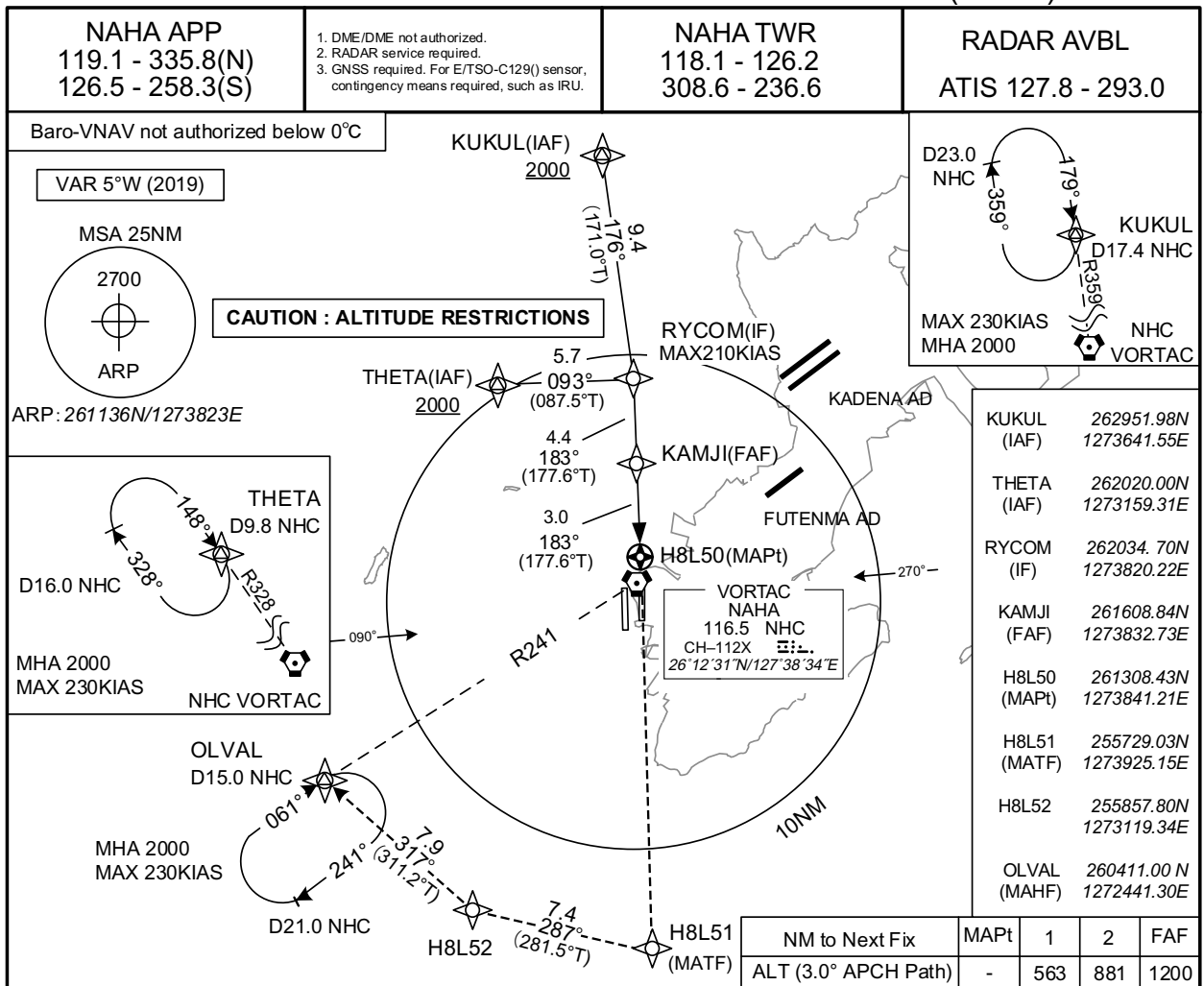
Circling to WEST side of RWY only.

CHANGE: New PROC

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: New PROC

CAT	MINIMA		THR elev. 11		AD elev. 11	
	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		2400
C		1400		1400		3200
D		1600		1600		

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

ROAH / NAHA

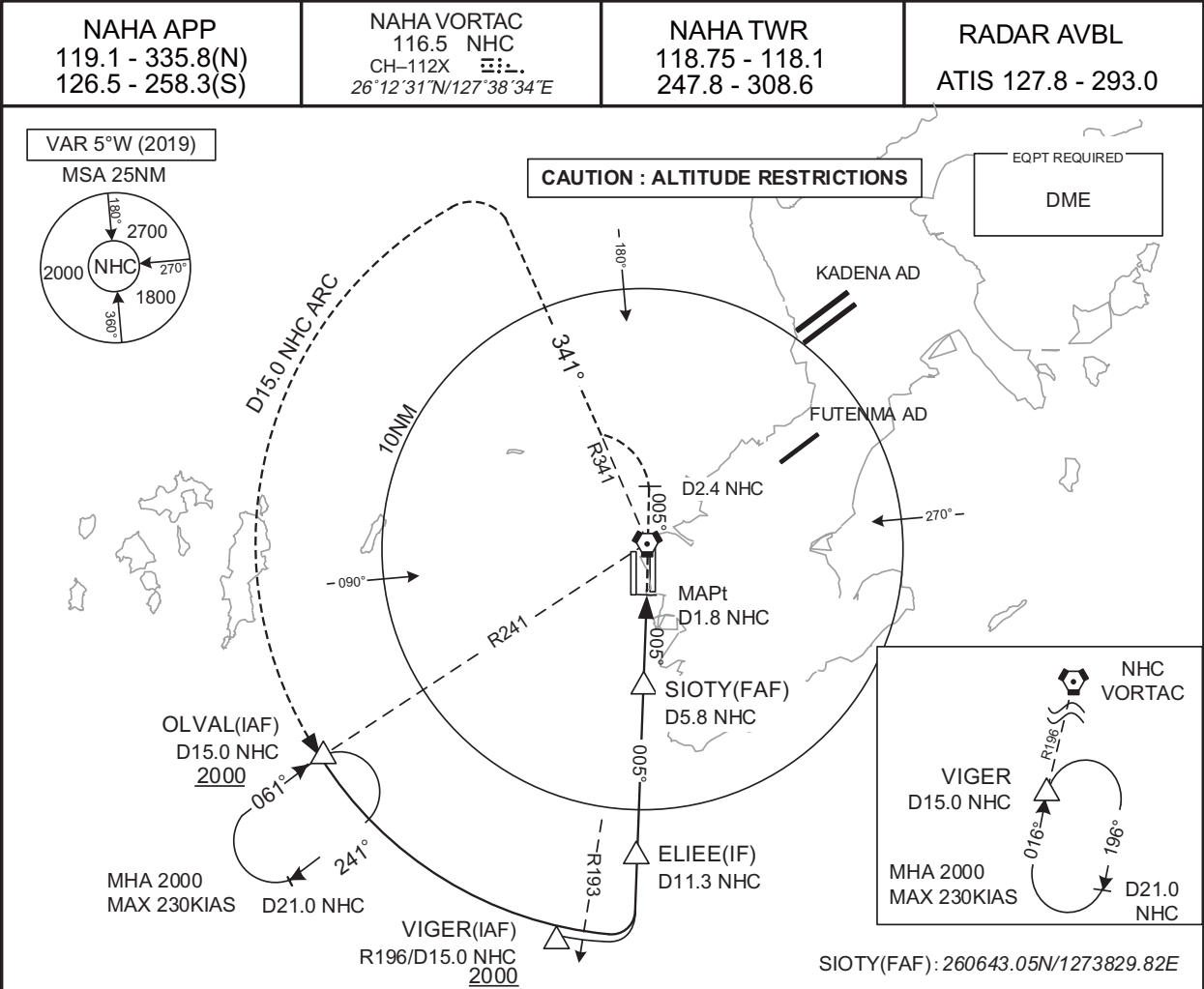
VOR A or TACAN B



CHANGE: New PROC

ROAH / NAHA

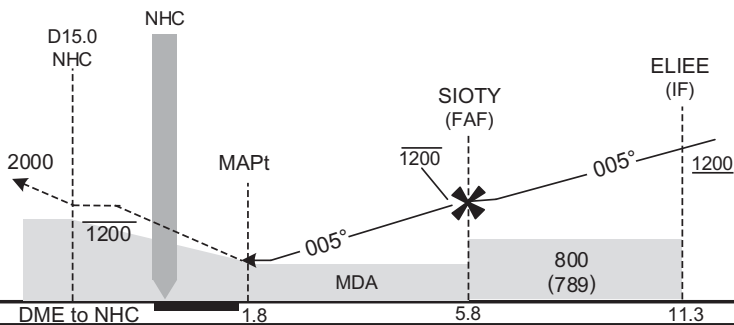
VOR C



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	620 (609)	1600
B		
C		2400
D		3200

Circling to WEST side of RWY only.

CHANGE: New PROC

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 15.0DME counterclockwise ARC to OLVAL and hold.

Contact NAHA APP.

Timing not authorized for defining the MAPt.



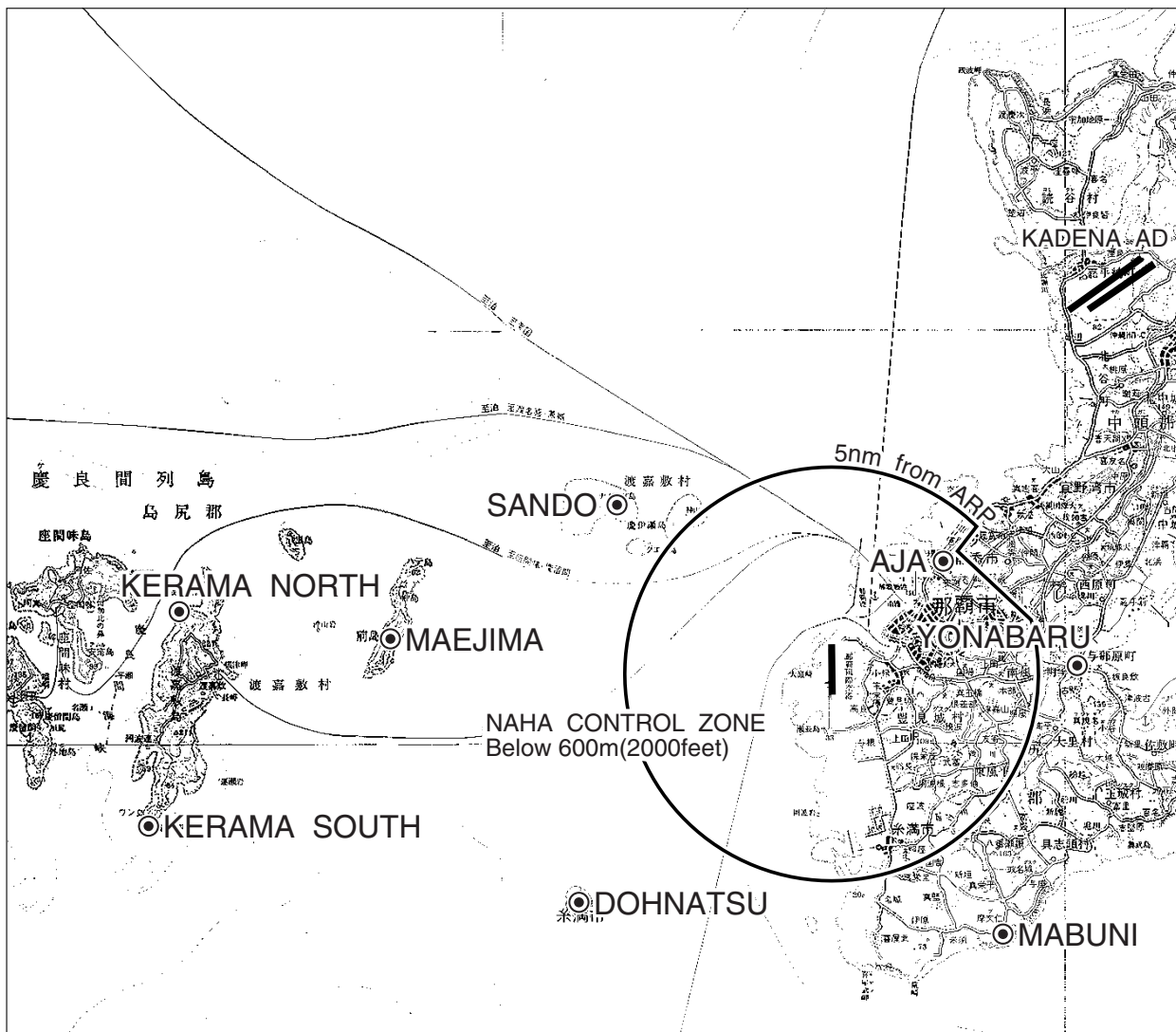
CHANGE: New PROC

MINIMA		AD elev. 11
CAT	CIRCLING	
	MDA(H)	VIS
A	700 (689)	1600
B		
C		2400
D		3200

Circling to WEST side of RWY only.

ROAH / NAHA

Visual REP

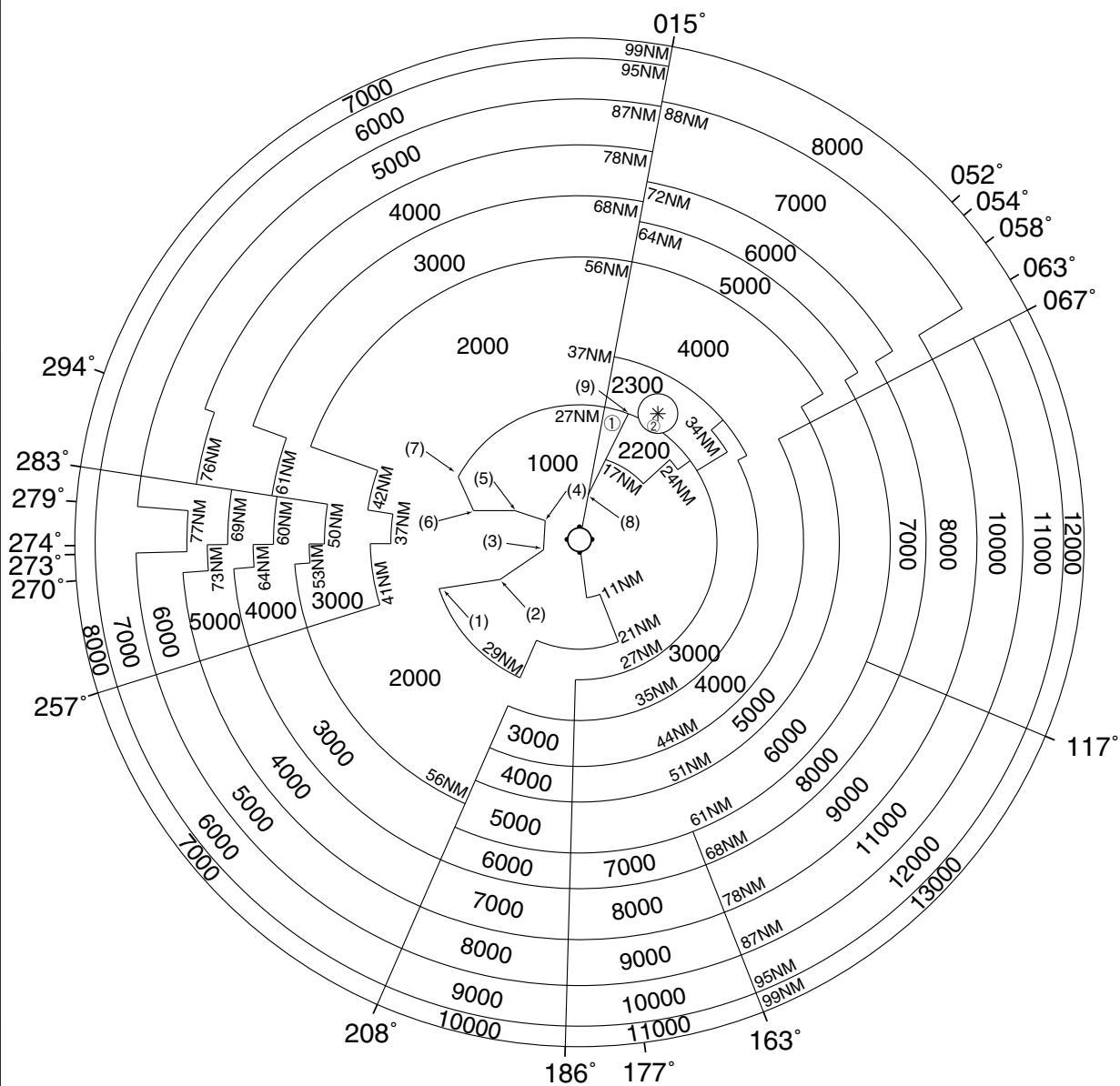


Call sign	BRG / DIST from ARP	Remarks
サ ン ド Sando	310° / 6.7NM	ナガンヌ島 Island
前 島 Maejima	277° / 10.8NM	前島 Island
慶良間ノース Kerama North	277° / 15.5NM	渡嘉敷島北端 North edge of island
慶良間サウス Kerama South	258° / 16.5NM	渡嘉敷島南端 South edge of island
ド ー ナ ツ Dohnatsu	230° / 8.5NM	ルカン礁 Coral reef
摩 文 仁 Mabuni	150° / 7.4NM	平和祈念公園 Park
与 那 原 Yonabaru	090° / 6.2NM	国道329号線与那原交叉点 Intersection
安 謝 Aja	045° / 3.5NM	国道58号線安謝橋 Bridge

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 | | |