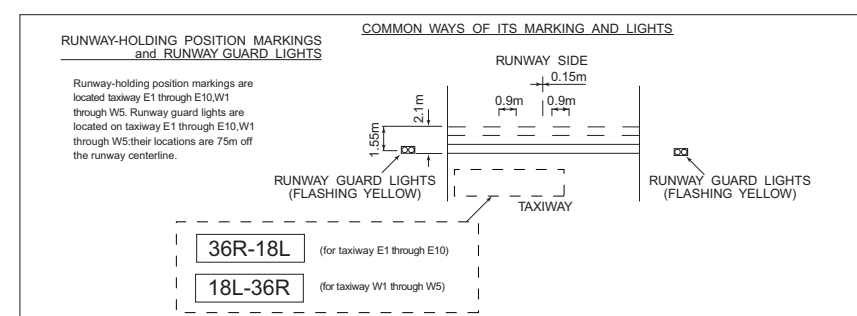


NAHA AIRPORT
ELEV 11ft (3.3m)



2/11/23

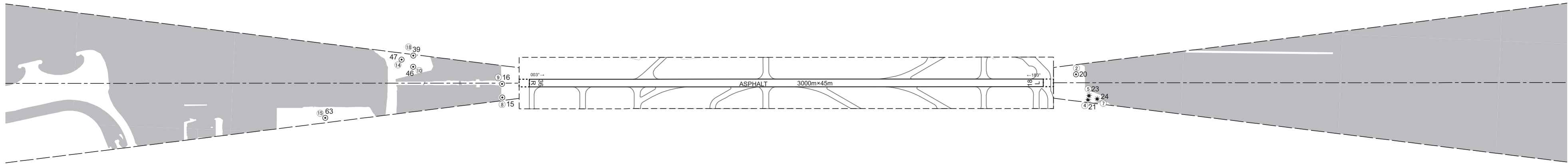


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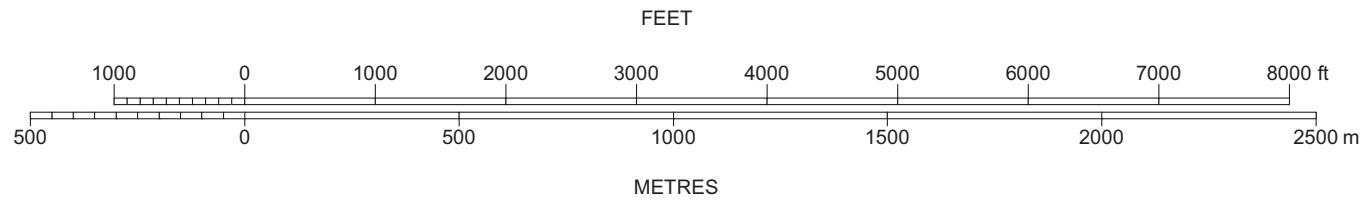
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 6°W - FEB 2023



HORIZONTAL SCALE



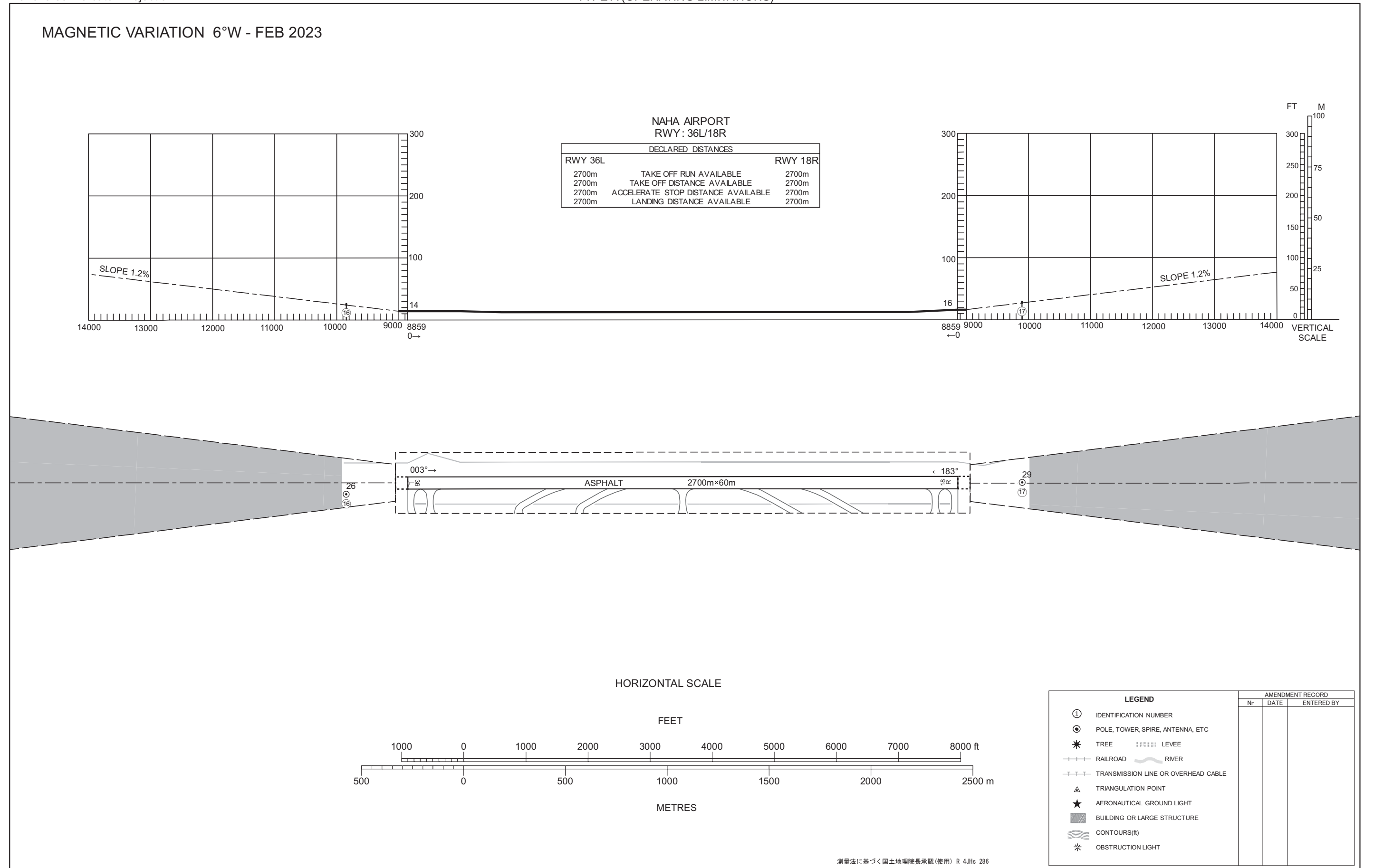
LEGEND		AMENDMENT RECORD		
①	IDENTIFICATION NUMBER	Nr	DATE	ENTERED BY
⊙	POLE, TOWER, SPIRE, ANTENNA, ETC			
✱	TREE			
⋯	RAILROAD			
⋯	TRANSMISSION LINE OR OVERHEAD CABLE			
△	TRIANGULATION POINT			
★	AERONAUTICAL GROUND LIGHT			
■	BUILDING OR LARGE STRUCTURE			
⋯	CONTOURS(1)			
✱	OBSTRUCTION LIGHT		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

測量法に基づく国土地理院長承認 (使用) R 4JIs 286

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

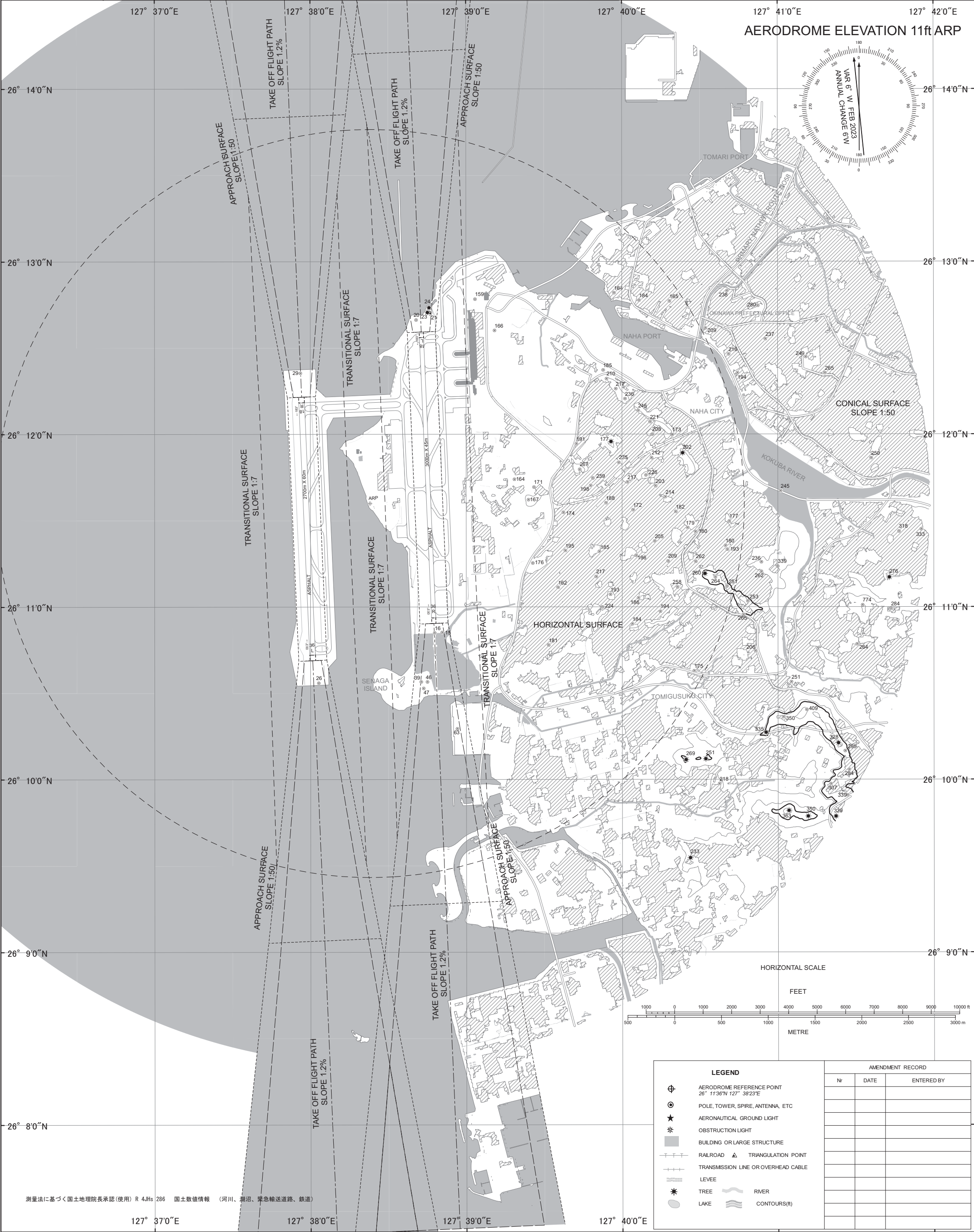
AERODROME OBSTACLE CHART-ICAO



CHANGE : Update.

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

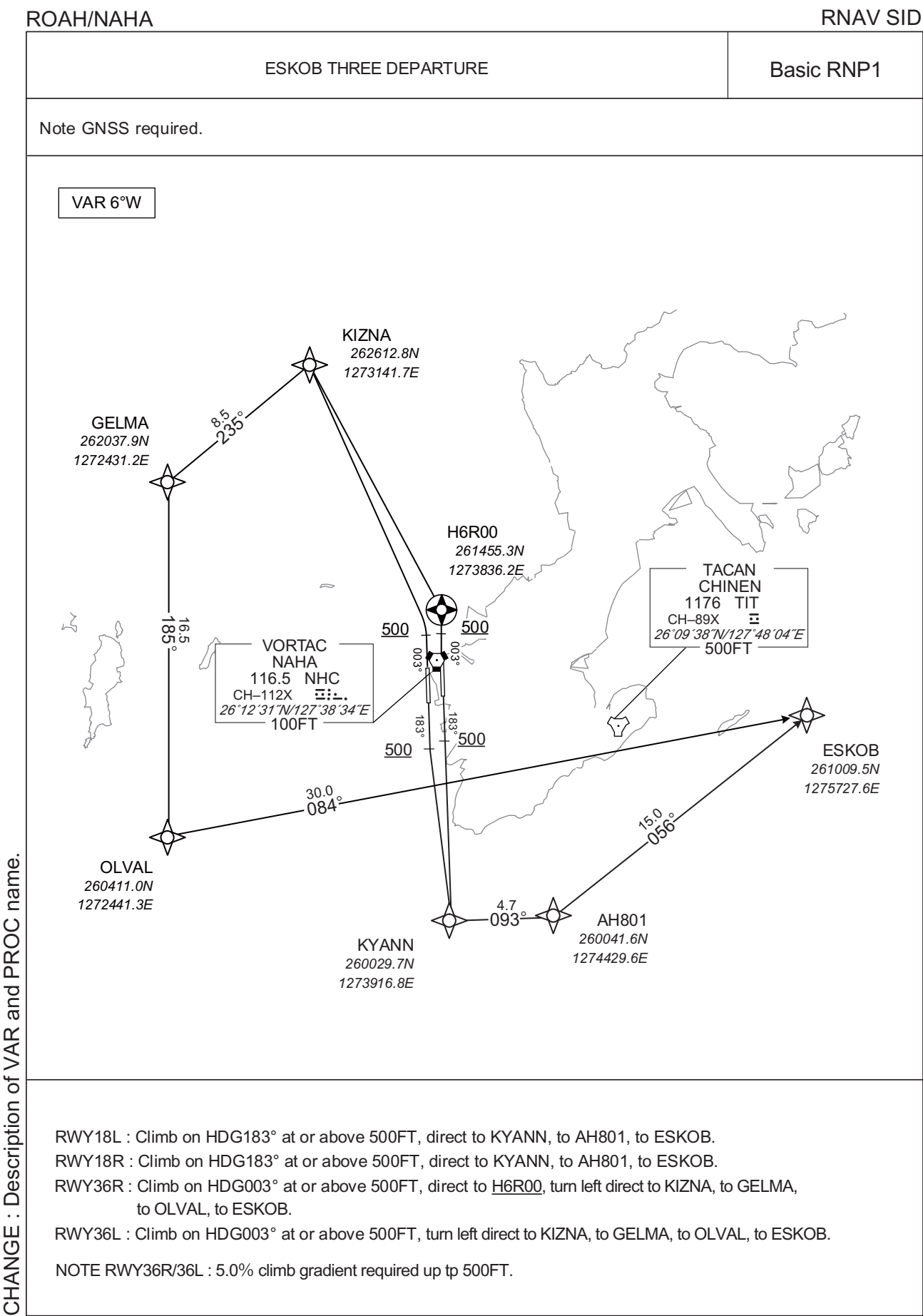
ROAH/NAHA

SID



CHANGE:New PROC

STANDARD DEPARTURE CHART-INSTRUMENT



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	-	-	Basic RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	Basic RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	Basic RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KYANN	-	-	-5.6	-	-	-	-	-	Basic RNP1
003	TF	AH801	-	093 (087.6)	-5.6	4.7	-	-	-	-	Basic RNP1
004	TF	ESKOB	-	056 (050.9)	-5.6	15.0	-	-	-	-	Basic RNP1

RWY36R

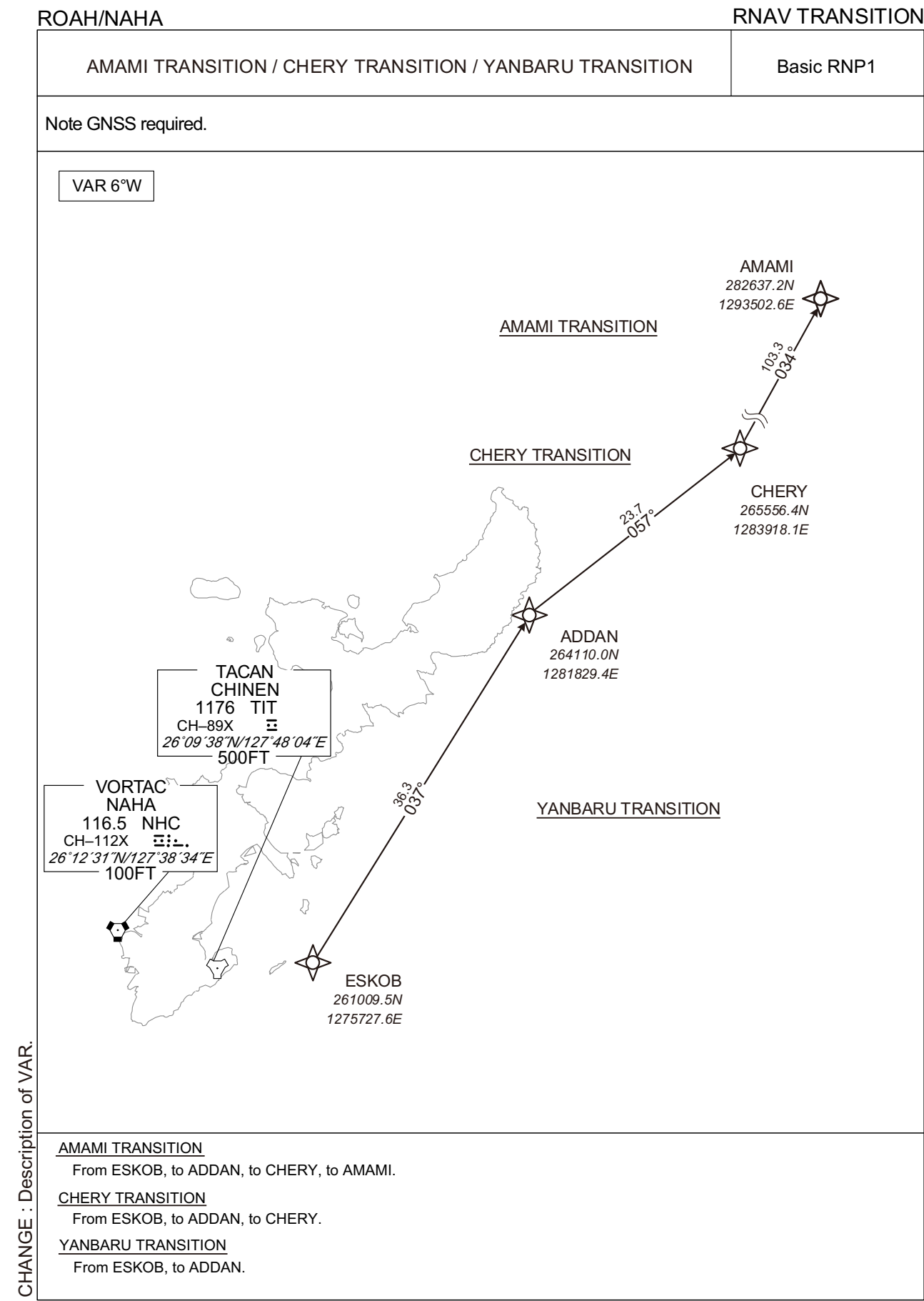
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001	VA	-	-	003 (357.6)	-5.6	-	-	+500	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
005	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	Basic RNP1
006	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
004	TF	OLVAL	-	185 (179.5)	-5.6	16.5	-	-	-	-	Basic RNP1
005	TF	ESKOB	-	084 (078.4)	-5.6	30.0	-	-	-	-	Basic RNP1

CHANGE : PROC renamed. Navigation specification.

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	-	-	-	-	-	Basic RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	Basic RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	Basic RNP1
004	TF	AMAMI	-	034 (028.3)	-5.6	103.3	-	-	-	-	Basic 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	-	-	-	-	-	Basic RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	Basic RNP1
003	TF	CHERY	-	057 (051.4)	-5.6	23.7	-	-	-	-	Basic RNP1

YANBARU TRANSITION

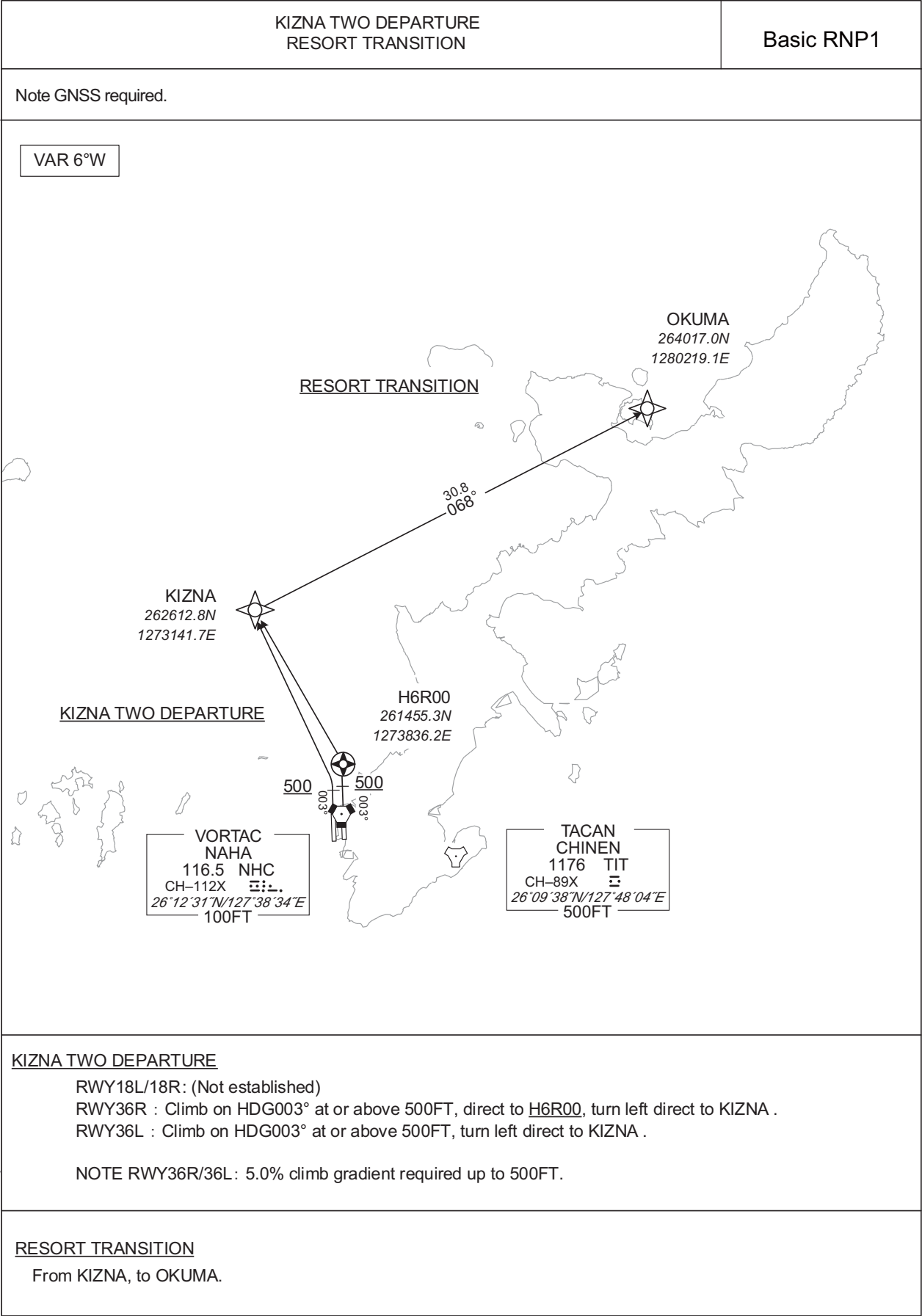
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001	IF	ESKOB	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	ADDAN	-	037 (031.2)	-5.6	36.3	-	-	-	-	Basic RNP1

CHANGE : Navigation specification.

STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHA

RNAV SID and TRANSITION



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	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic 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	-	-	-	-	-	Basic RNP1
002	TF	OKUMA	-	068 (062.7)	-5.6	30.8	-	-	-	-	Basic RNP1

CHANGE : PROC renamed (KIZNA TWO DEPARTURE). Navigation specification.

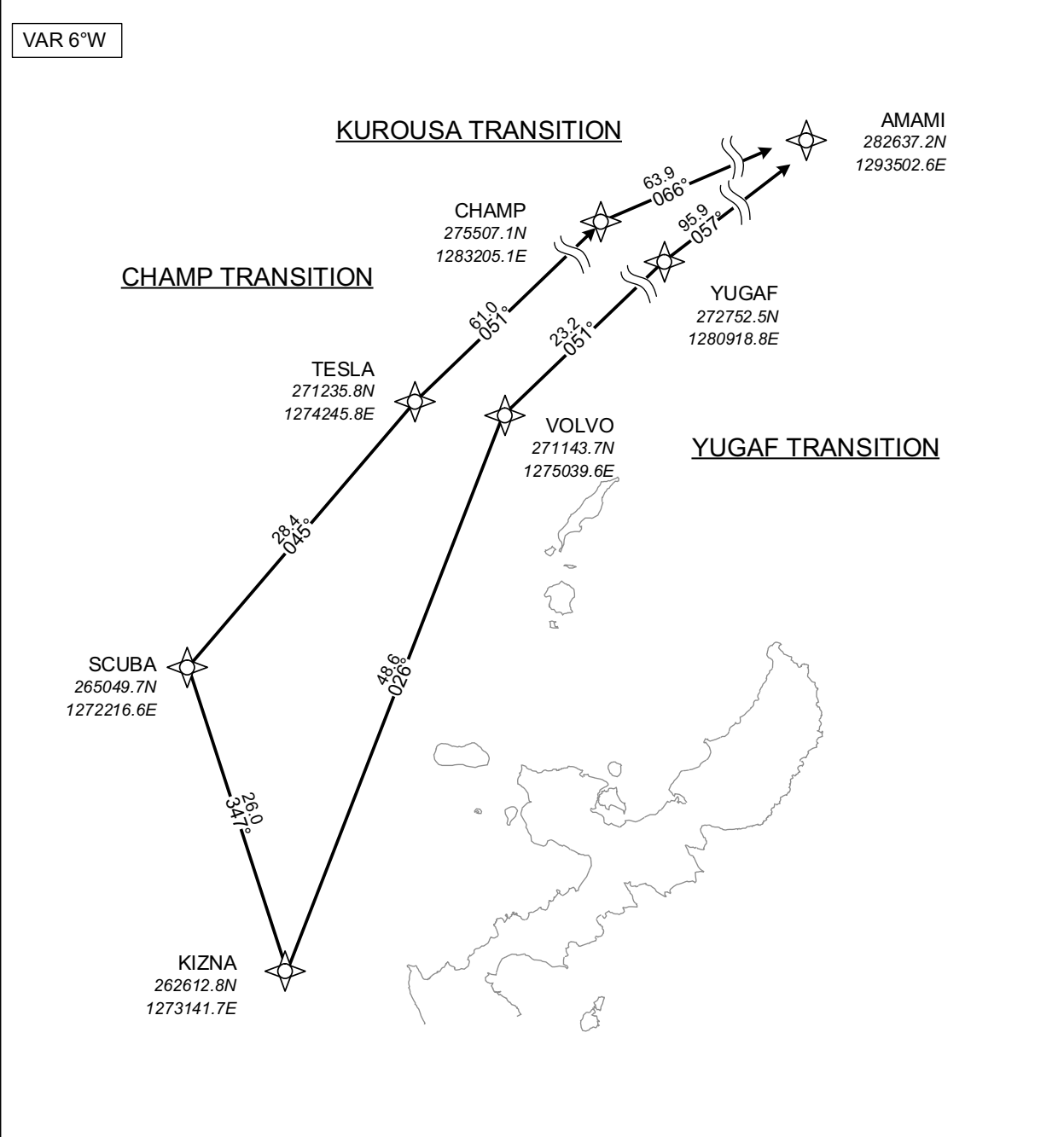
STANDARD DEPARTURE CHART-INSTRUMENT

ROAH/NAHARNAV TRANSITION

KUROUSA TRANSITION CHAMP TRANSITION YUGAF TRANSITION	Basic RNP1
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Note GNSS required.

VAR 6°W



CHANGE : Description of 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	-	-	-	-	-	Basic RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	Basic RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	Basic RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	Basic RNP1
005	TF	AMAMI	-	066 (060.2)	-5.6	63.9	-	-	-	-	Basic 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	-	-	-	-	-	Basic RNP1
002	TF	SCUBA	-	347 (341.2)	-5.6	26.0	-	-	-	-	Basic RNP1
003	TF	TESLA	-	045 (039.9)	-5.6	28.4	-	-	-	-	Basic RNP1
004	TF	CHAMP	-	051 (045.6)	-5.6	61.0	-	-	-	-	Basic 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	-	-	-	-	-	Basic RNP1
002	TF	VOLVO	-	026 (020.3)	-5.6	48.6	-	-	-	-	Basic RNP1
003	TF	YUGAF	-	051 (045.7)	-5.6	23.2	-	-	-	-	Basic RNP1
004	TF	AMAMI	-	057 (051.9)	-5.6	95.9	-	-	-	-	Basic RNP1

CHANGE : Navigation specification.

STANDARD DEPARTURE CHART-INSTRUMENT

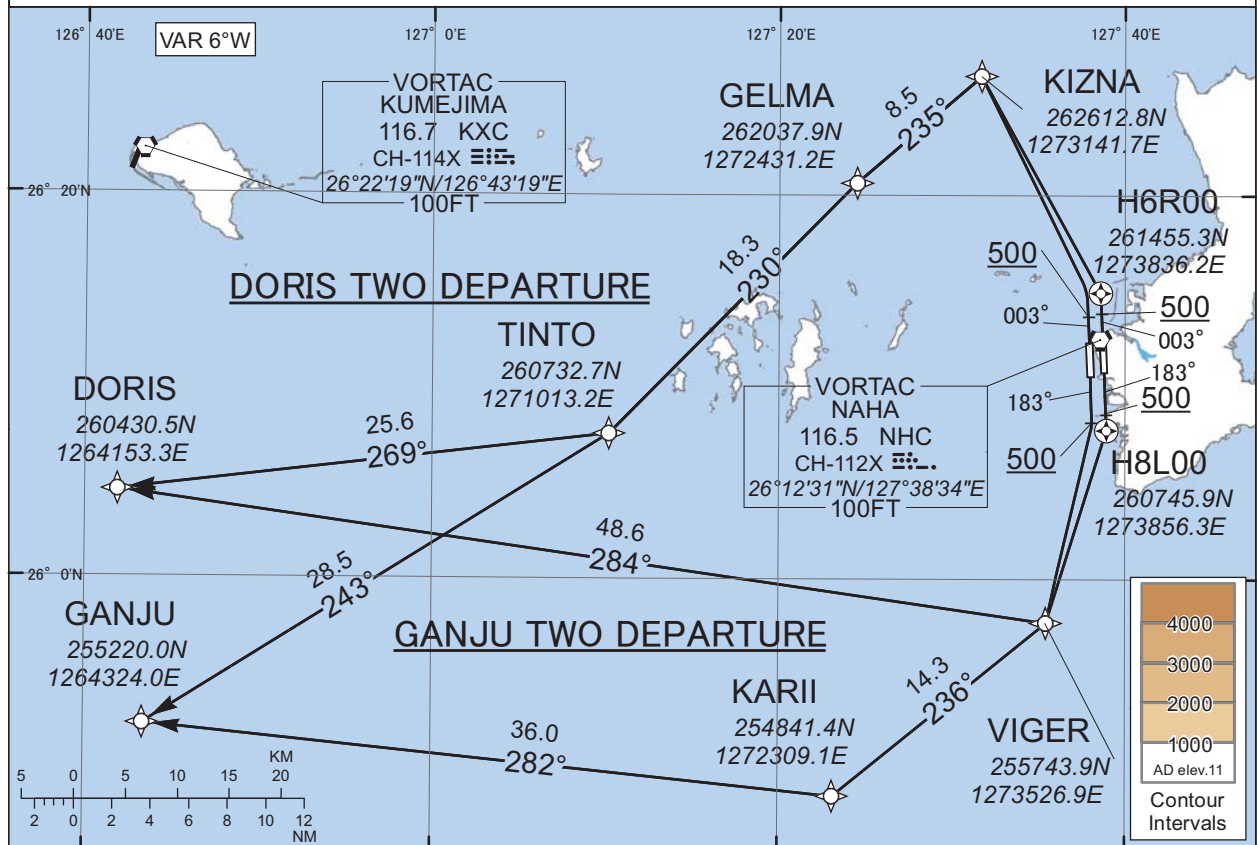
ROAH / NAHA

RNAV SID

DORIS TWO DEPARTURE / GANJU TWO DEPARTURE

Basic 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 : Description of VAR.

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	-	-	Basic RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
004	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
003	TF	DORIS	-	284 (278.2)	-5.6	48.6	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
006	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
005	TF	DORIS	-	269 (263.3)	-5.6	25.6	-	-	-	-	Basic RNP1

CHANGE : PROC renamed. Navigation specification.

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	-	-	Basic RNP1
002	DF	H8L00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
004	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	Basic RNP1
005	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	VIGER	-	-	-5.6	-	R	-	-	-	Basic RNP1
003	TF	KARII	-	236 (230.8)	-5.6	14.3	-	-	-	-	Basic RNP1
004	TF	GANJU	-	282 (276.0)	-5.6	36.0	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	H6R00	Y	-	-5.6	-	-	-	-	-	Basic RNP1
003	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
004	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
005	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
006	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	Basic 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	-	-	Basic RNP1
002	DF	KIZNA	-	-	-5.6	-	L	-	-	-	Basic RNP1
003	TF	GELMA	-	235 (229.0)	-5.6	8.5	-	-	-	-	Basic RNP1
004	TF	TINTO	-	230 (224.5)	-5.6	18.3	-	-	-	-	Basic RNP1
005	TF	GANJU	-	243 (237.8)	-5.6	28.5	-	-	-	-	Basic RNP1

CHANGE : PROC renamed. Navigation specification.

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

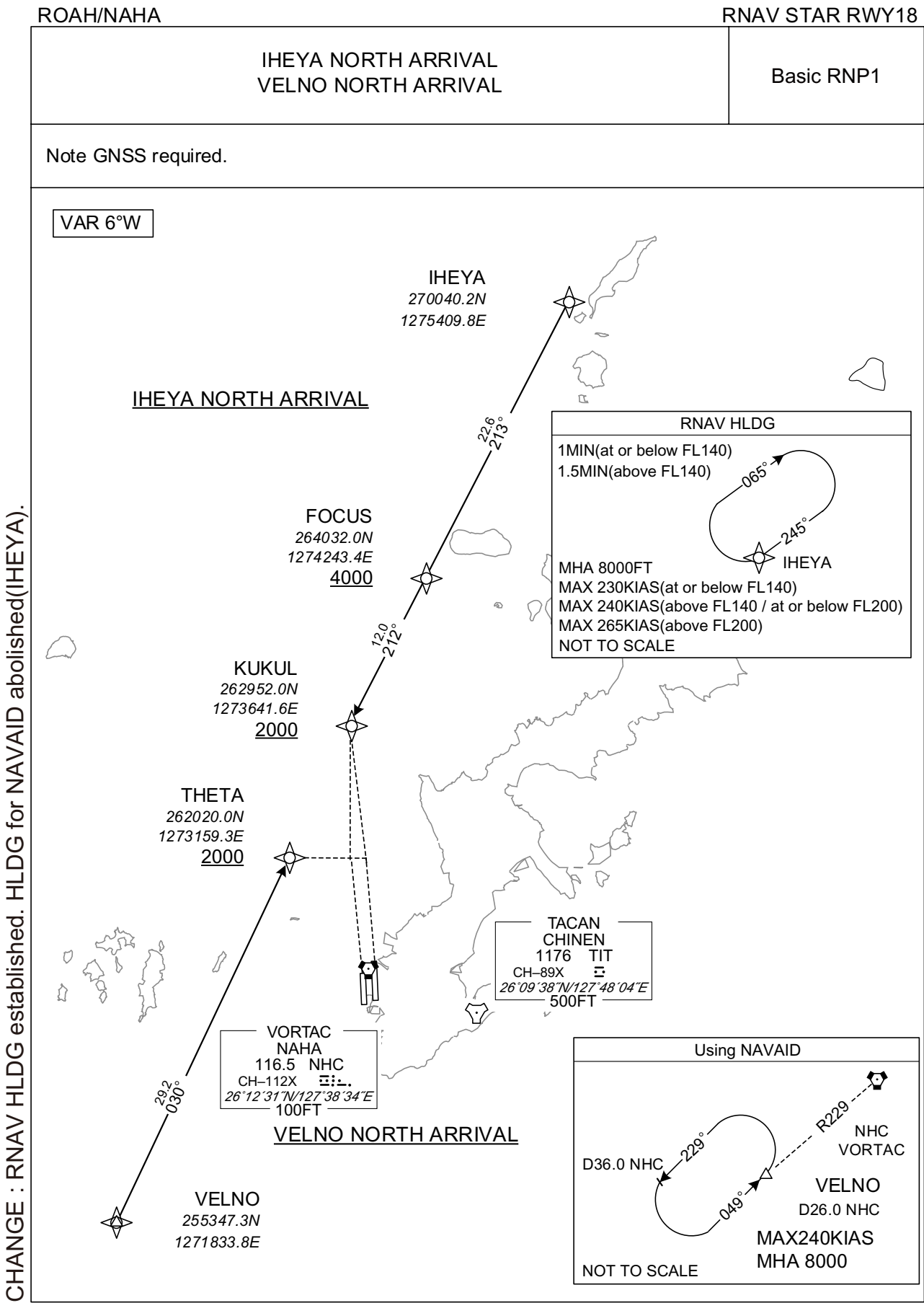
STANDARD ARRIVAL CHART-INSTRUMENT

ROAH/NAHA

STAR



STANDARD ARRIVAL CHART-INSTRUMENT



ROAH / NAHA

IHEYA NORTH ARRIVAL

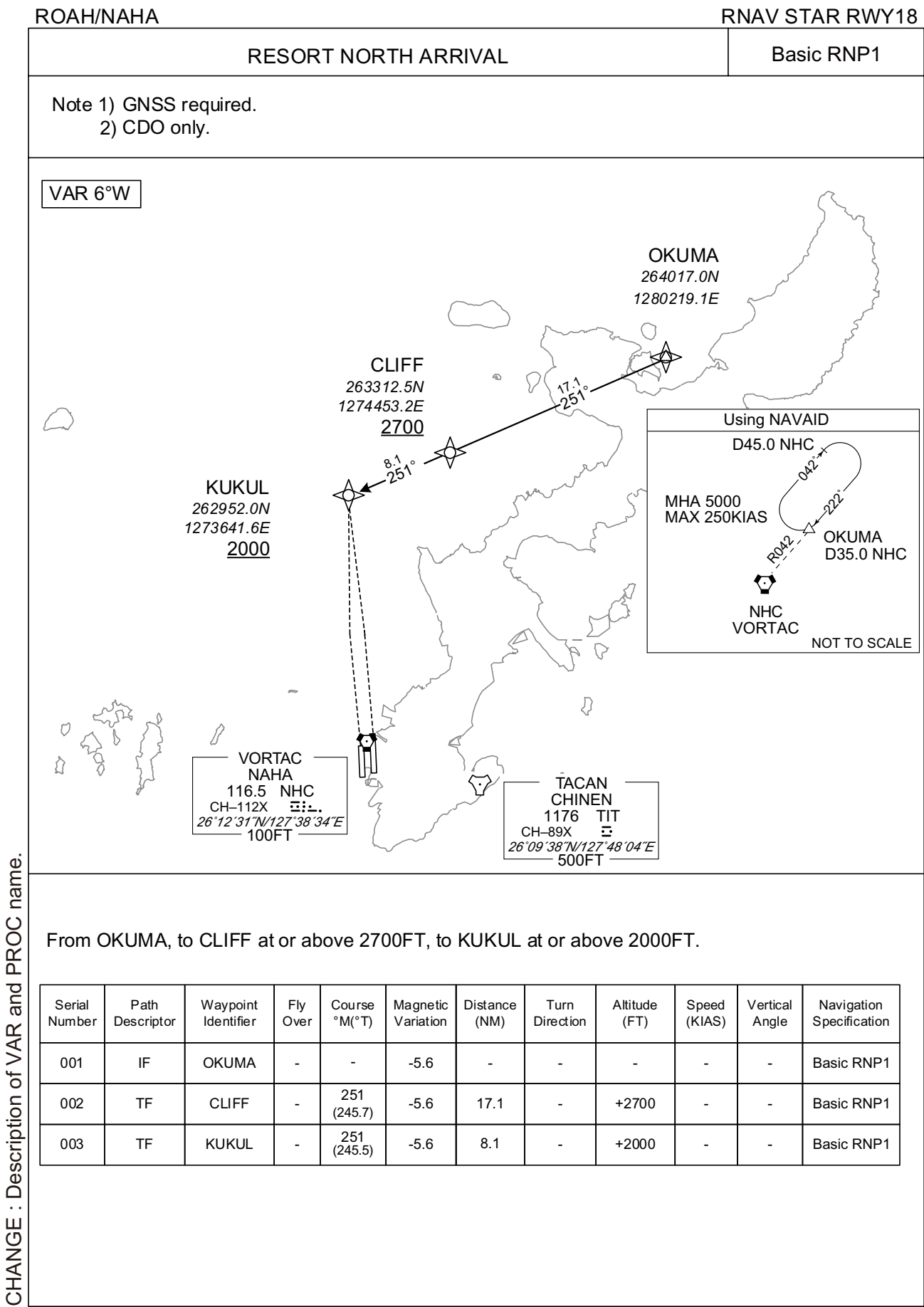
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	IHEYA	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	FOCUS	-	213 (206.9)	-5.6	22.6	-	+4000	-	-	Basic RNP1
003	TF	KUKUL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

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	-	-	-	-	-	Basic RNP1
002	TF	THETA	-	030 (024.4)	-5.6	29.2	-	+2000	-	-	Basic RNP1

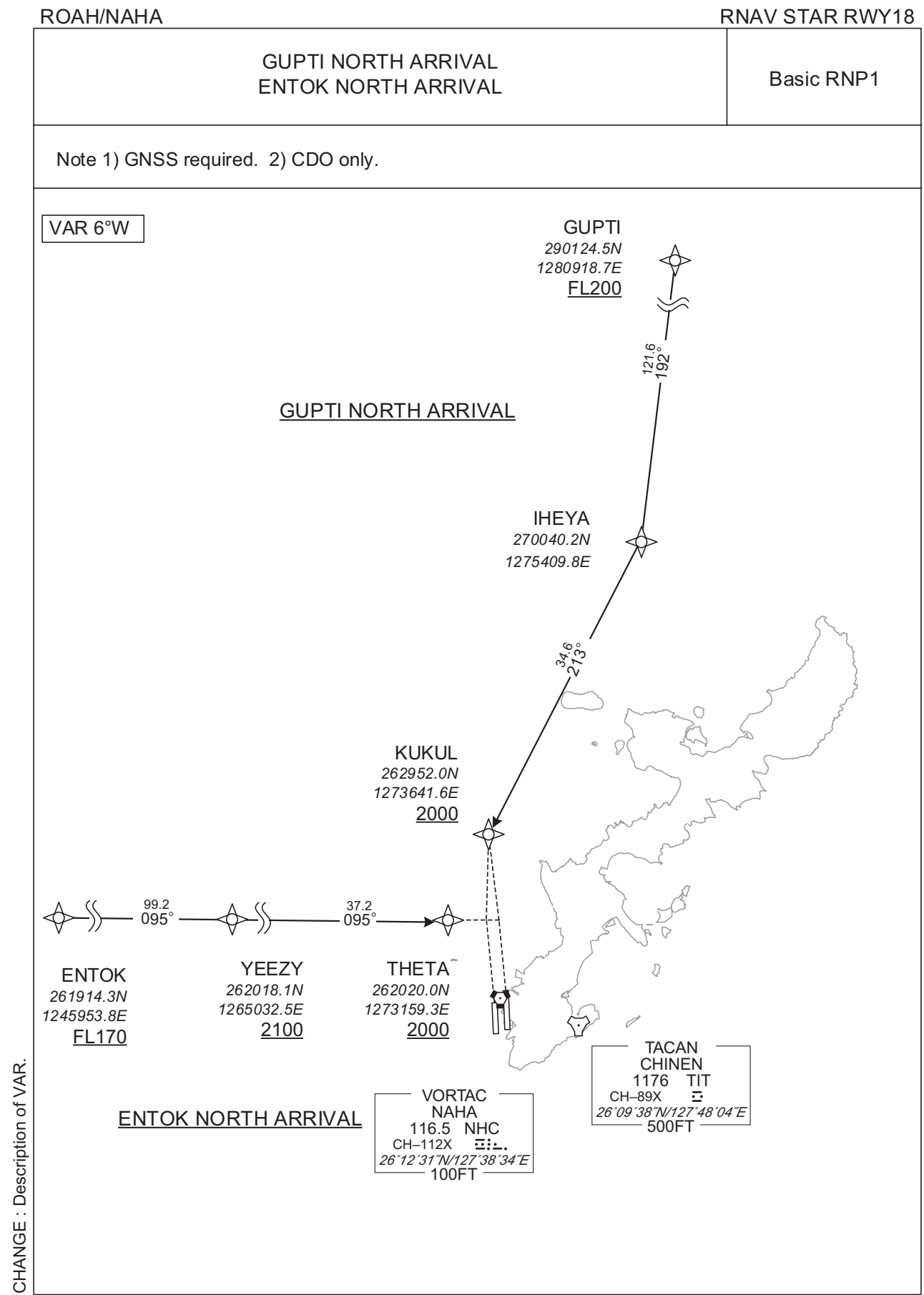
Civil Aviation Bureau, Japan (EFF:20 APR 2023)

STANDARD ARRIVAL CHART-INSTRUMENT



CHANGE : Description of VAR and PROC name.

STANDARD ARRIVAL CHART-INSTRUMENT



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

Basic RNP1

Note GNSS required.

VAR 6°W

RNAV HLDG

1MIN(at or below FL140)
1.5MIN(above FL140)MHA 8000FT
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140 / at or below FL200)
MAX 265KIAS(above FL200)
NOT TO SCALE

Using NAVAID

D36.0 NHC
229°
049°
NHC
VORTAC
VELNO
D26.0 NHC
MAX240KIAS
MHA 8000
NOT TO SCALEVORTAC
NAHA
116.5 NHC
CH-112X
26°12'31"N/127°38'34"E
100FT

VELNO SOUTH ARRIVAL

TACAN
CHINEN
1176 TIT
CH-89X
26°09'38"N/127°48'04"E
500FTSEIFA
260303.9N
1274448.5E
2000VIGER
255743.9N
1273526.9E
2000VELNO
255347.3N
1271833.8EIHEYA
270040.2N
1275409.8E

IHEYA SOUTH ARRIVAL

HASSA
262334.1N
1275516.0E
11000

CHANGE : RNAV HLDG established. HLDG for NAVAID abolished(IHEYA).

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

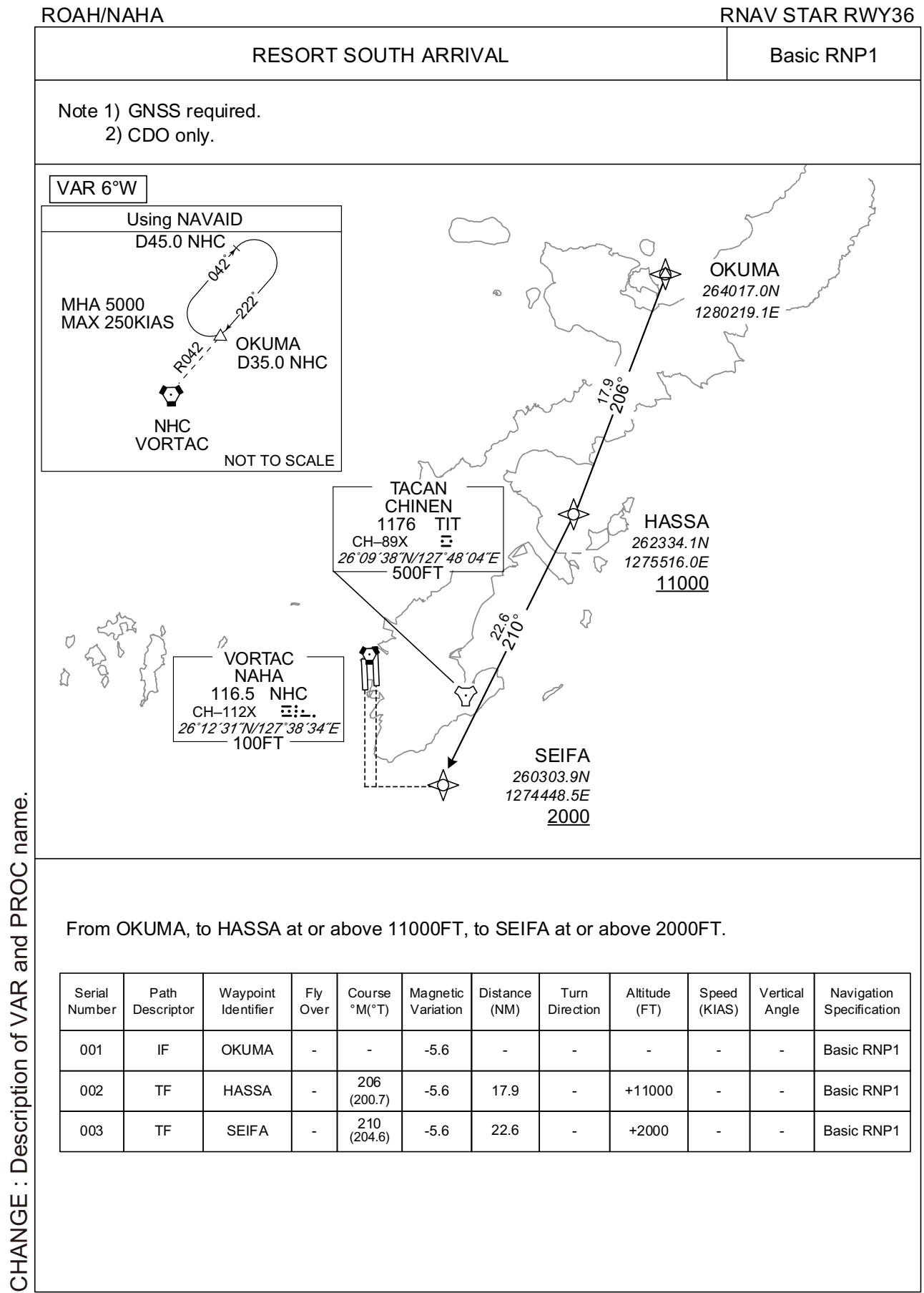
VELNO SOUTH ARRIVAL

From VELNO, to VIGER at or above 2000FT.

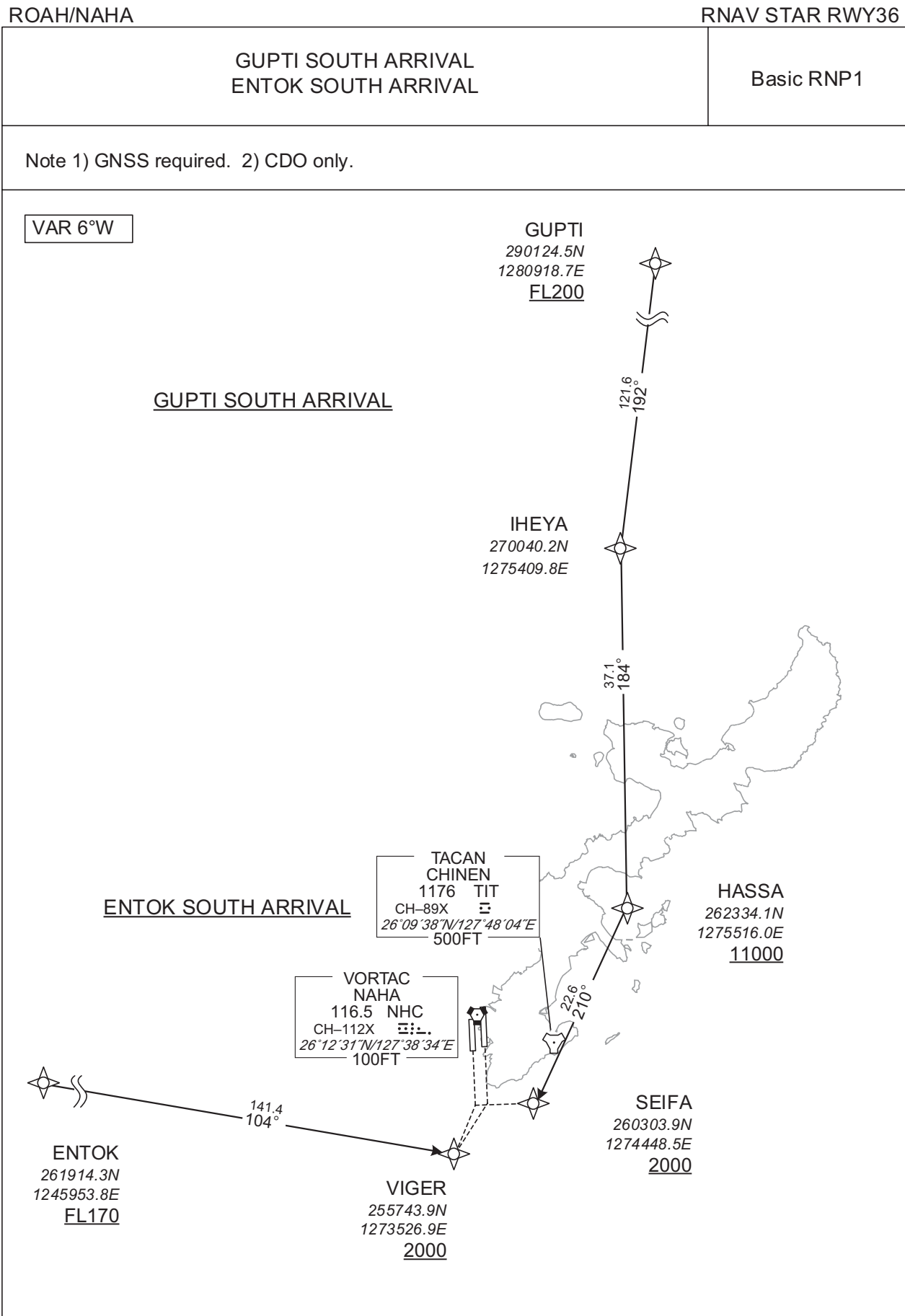
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	VELNO	-	-	-5.6	-	-	-	-	-	Basic RNP1
002	TF	VIGER	-	081 (075.4)	-5.6	15.7	-	+2000	-	-	Basic RNP1

CHANGE : RNAV HLDG established.

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.

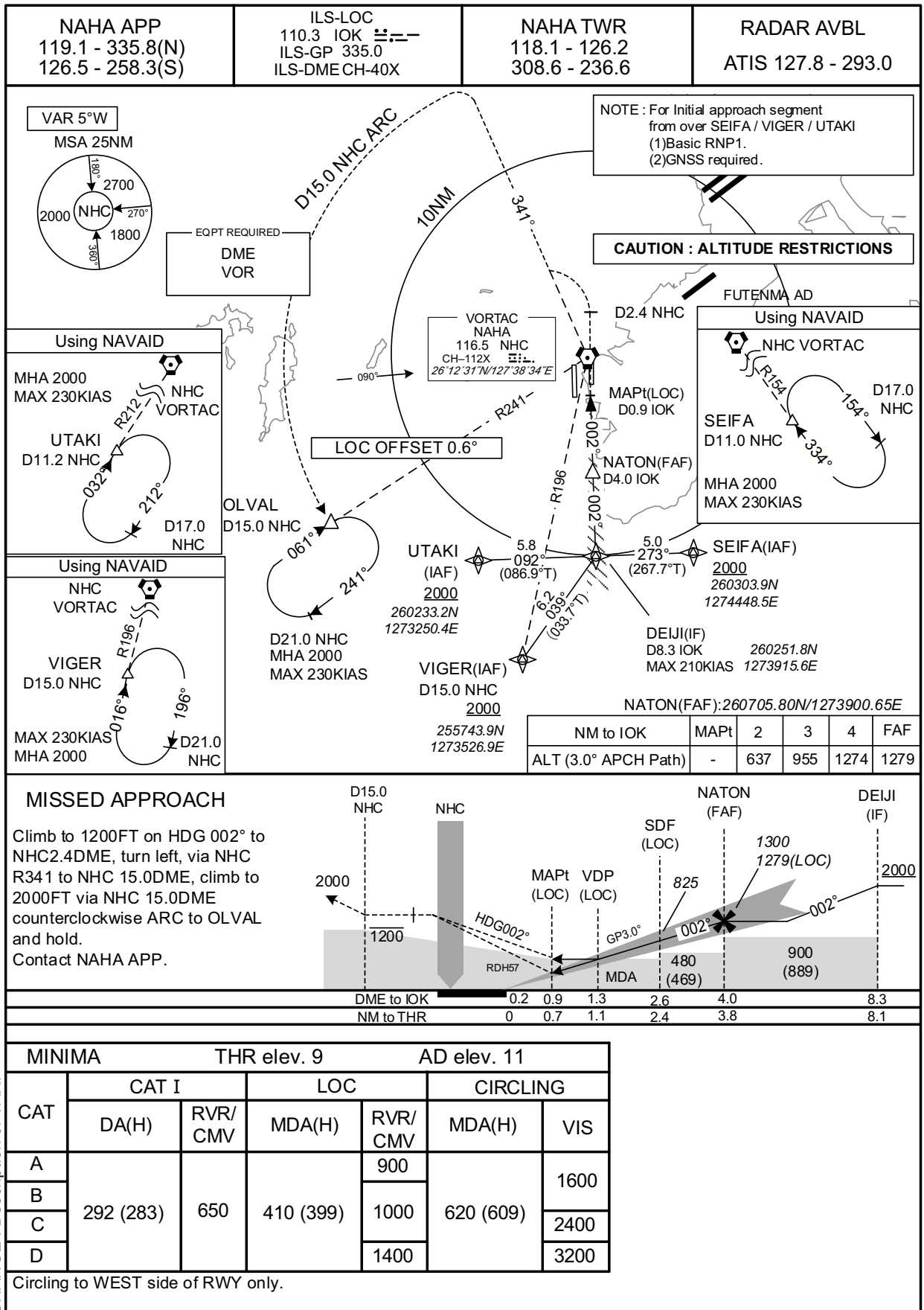
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ENTOK	-	-	-5.6	-	-	+FL170	-	-	Basic RNP1
002	TF	VIGER	-	104 (098.2)	-5.6	141.4	-	+2000	-	-	Basic RNP1

CHANGE: VAR.

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Z or LOC Z RWY36R



INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS Y or LOC Y RWY36R

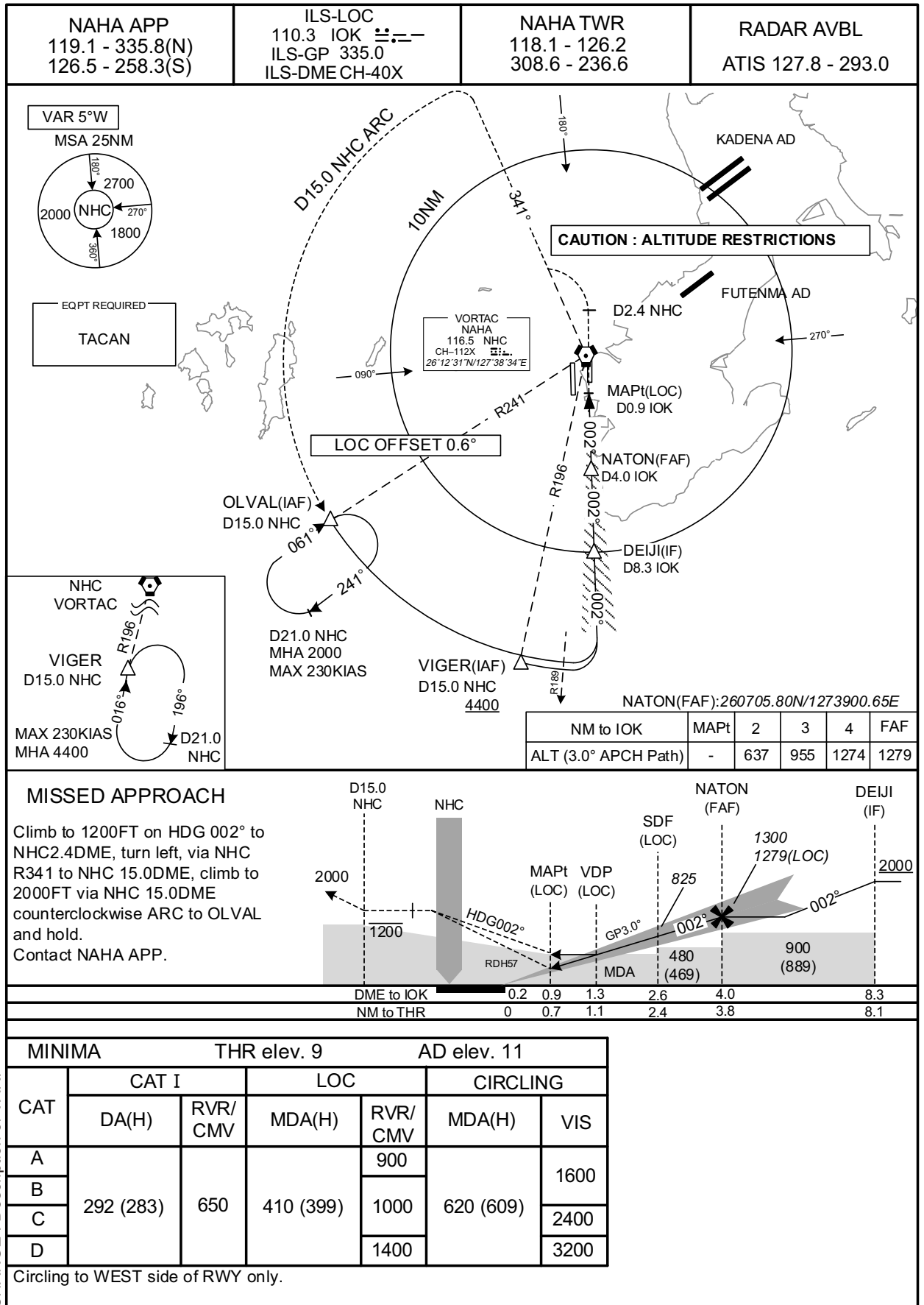


CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

ROAH / NAHA

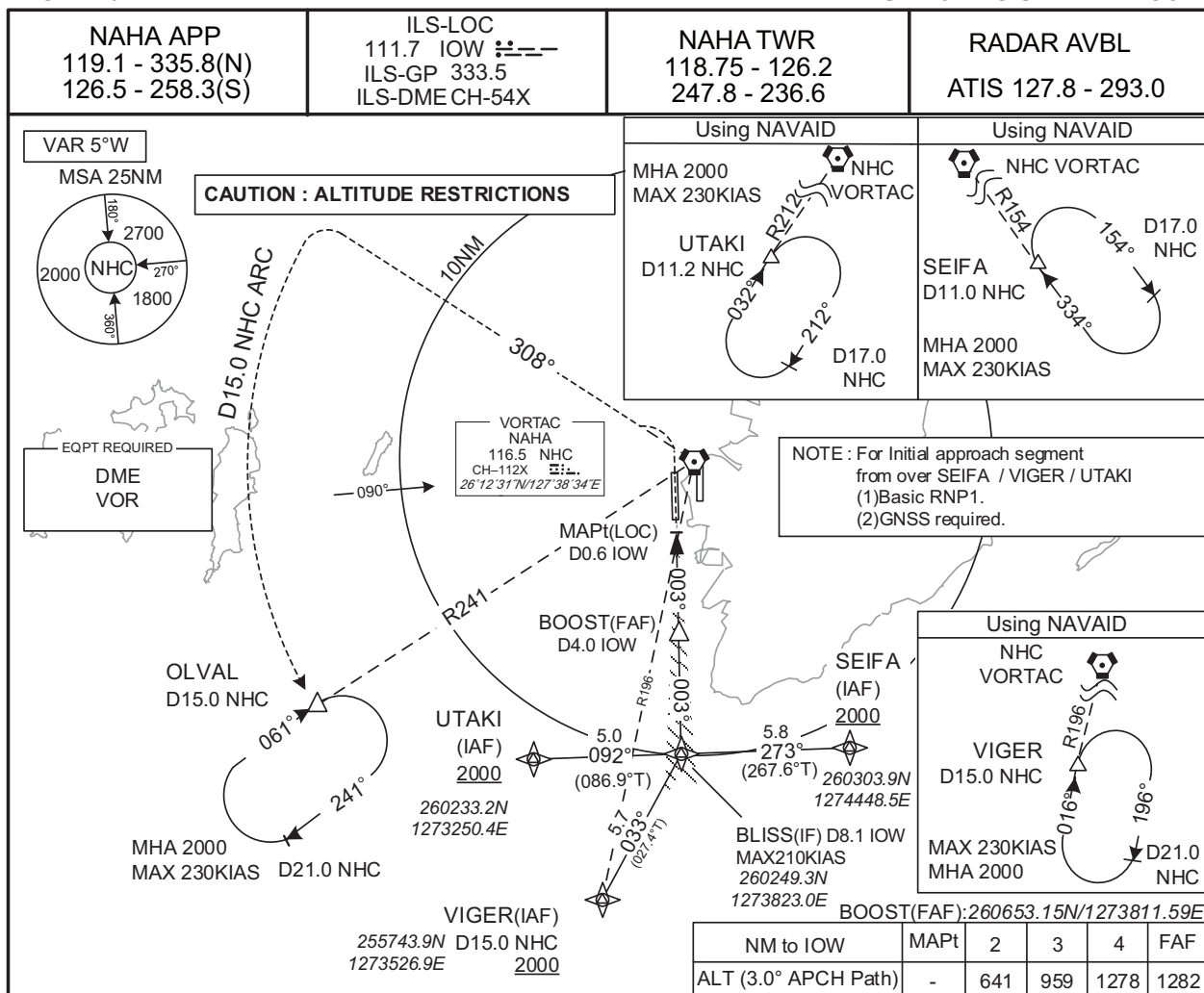
ILS X or LOC X RWY36R



INSTRUMENT APPROACH CHART

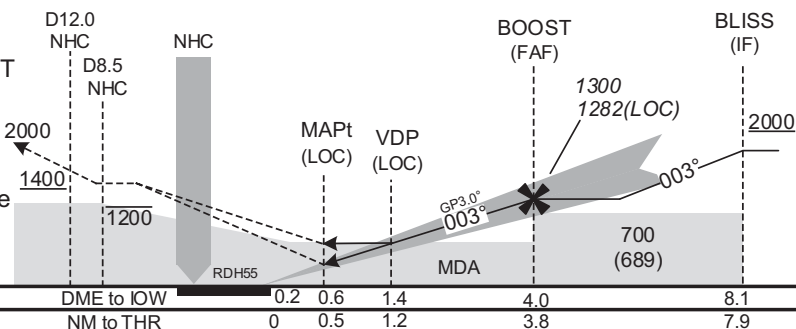
ROAH / NAHA

ILS Z or LOC Z RWY36L



MISSED APPROACH

Turn left, climb to 1200FT via NHC
 R 308 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.



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						

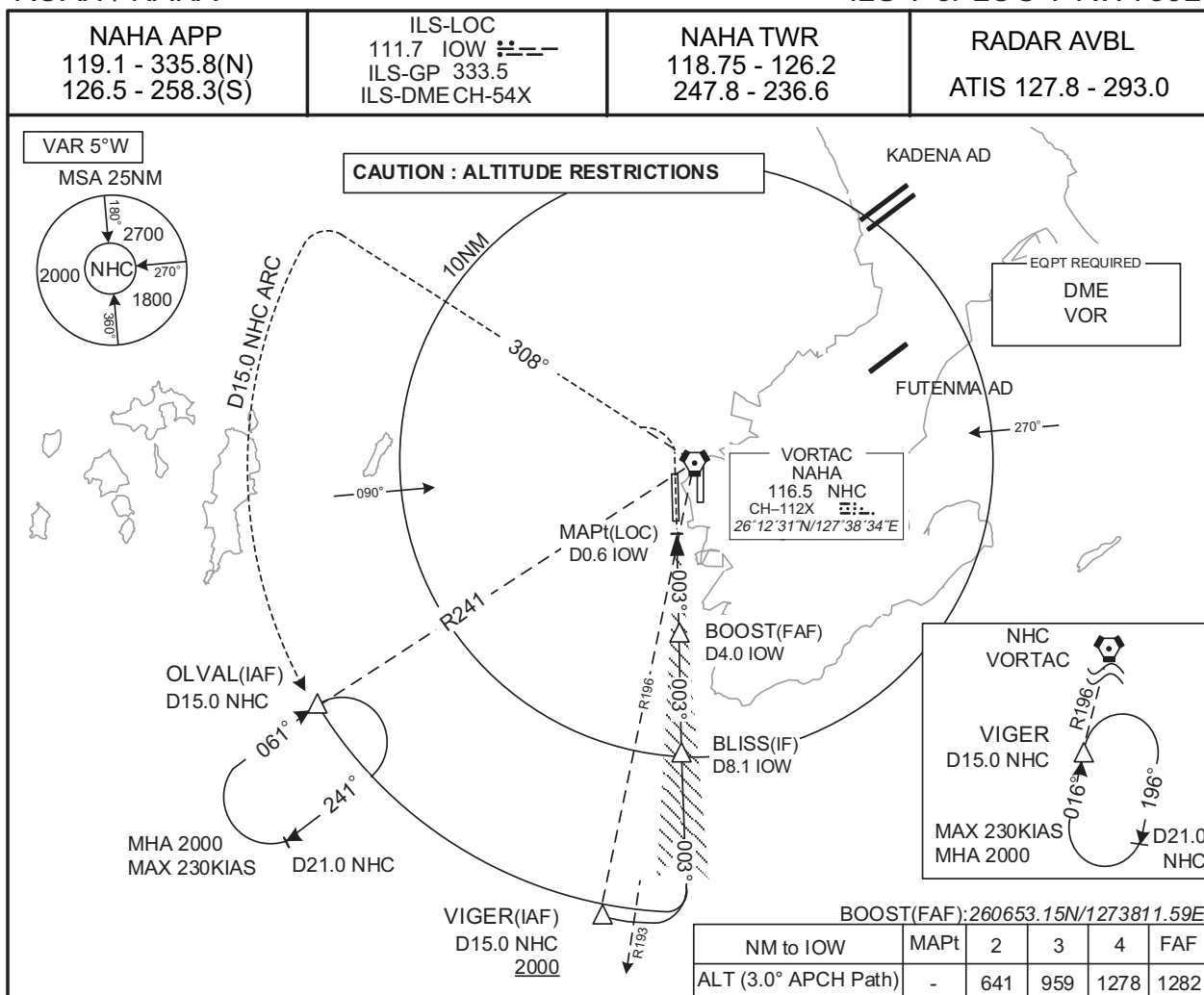
Circling to WEST side of RWY only.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

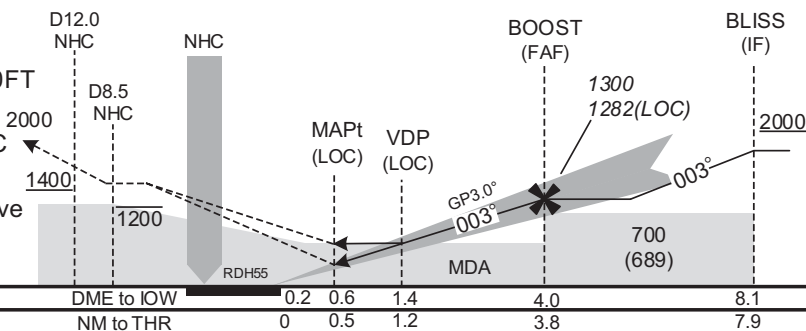
ROAH / NAHA

ILS Y or LOC Y RWY36L



MISSED APPROACH

Turn left, climb to 1200FT via NHC
R308 to NHC 8.5DME, 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.



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.



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						

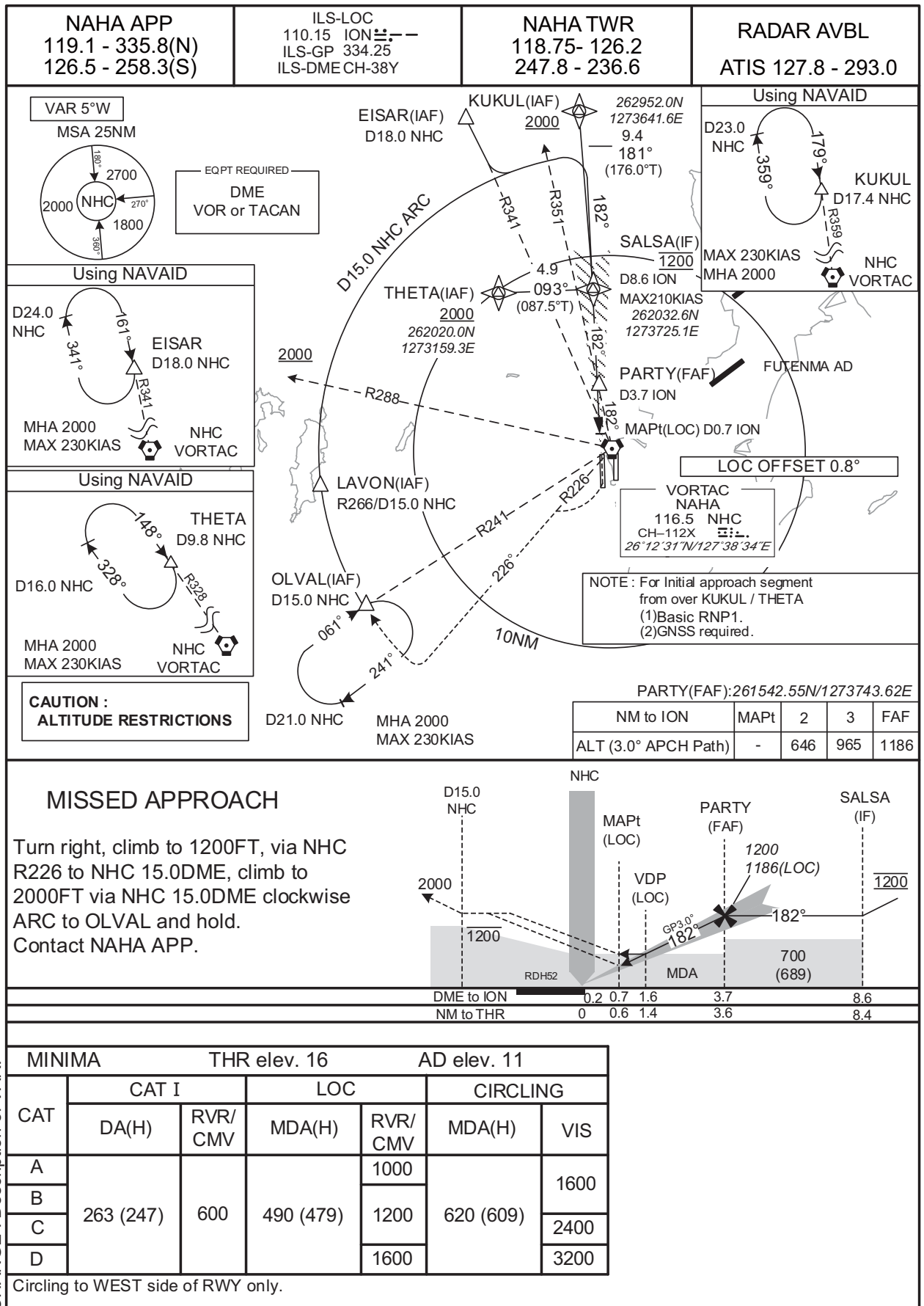
Circling to WEST side of RWY only.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

ROAH / NAHA

ILS or LOC RWY18R



INSTRUMENT APPROACH CHART

ROAH / NAHA

RNP 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 : Description of VAR.

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						3200
D						

Circling to WEST side of RWY only.

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.

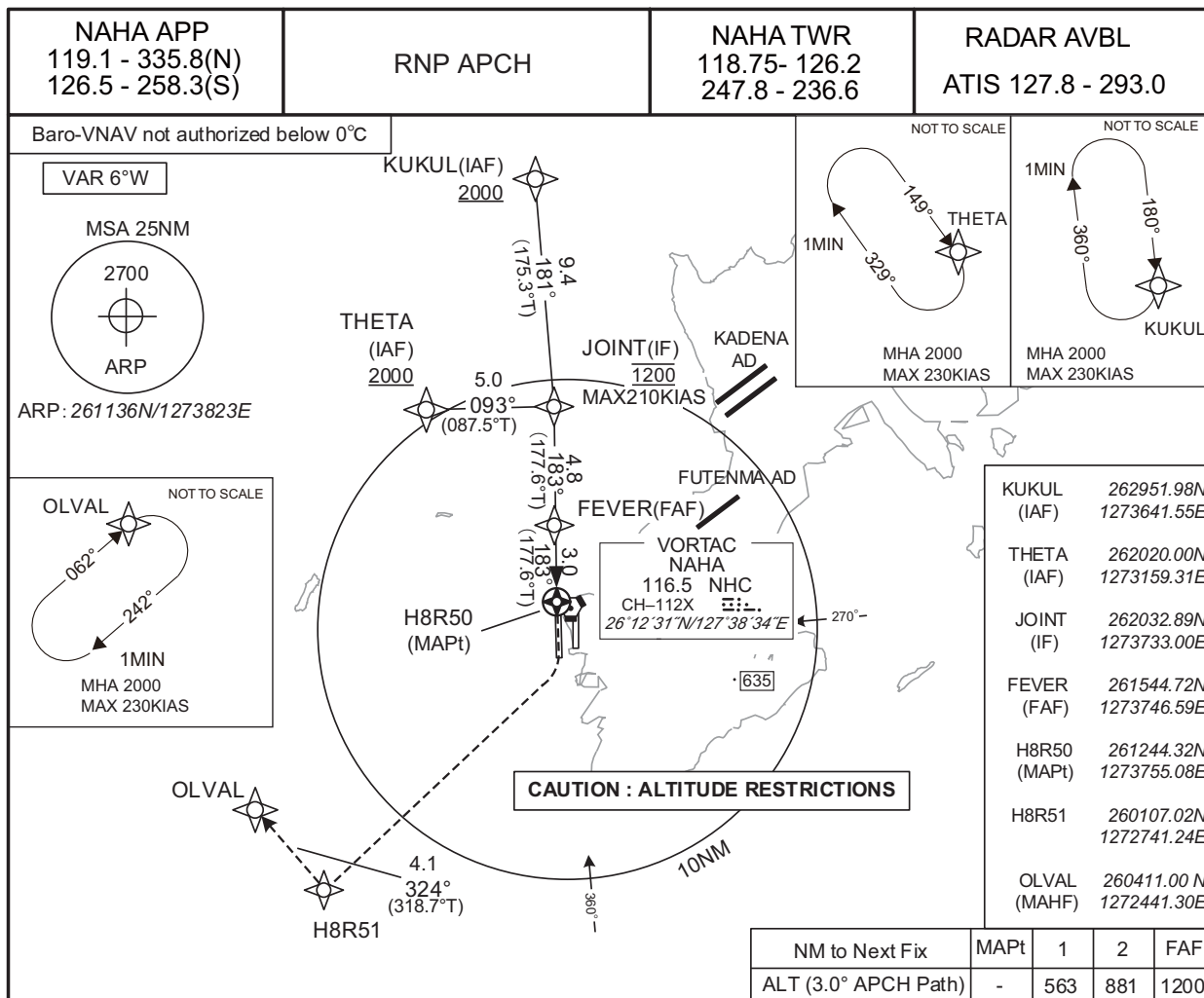
CAT	MINIMA		THR elev. 14		AD elev. 11	
	LNAV/VNAV	LNAV	CIRCLING			
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	370 (356)	900	370 (359)	900	620 (609)	1600
B		1000		1000		2400
C		1400		1400		3200
D						

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

ROAH / NAHA

RNP 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						

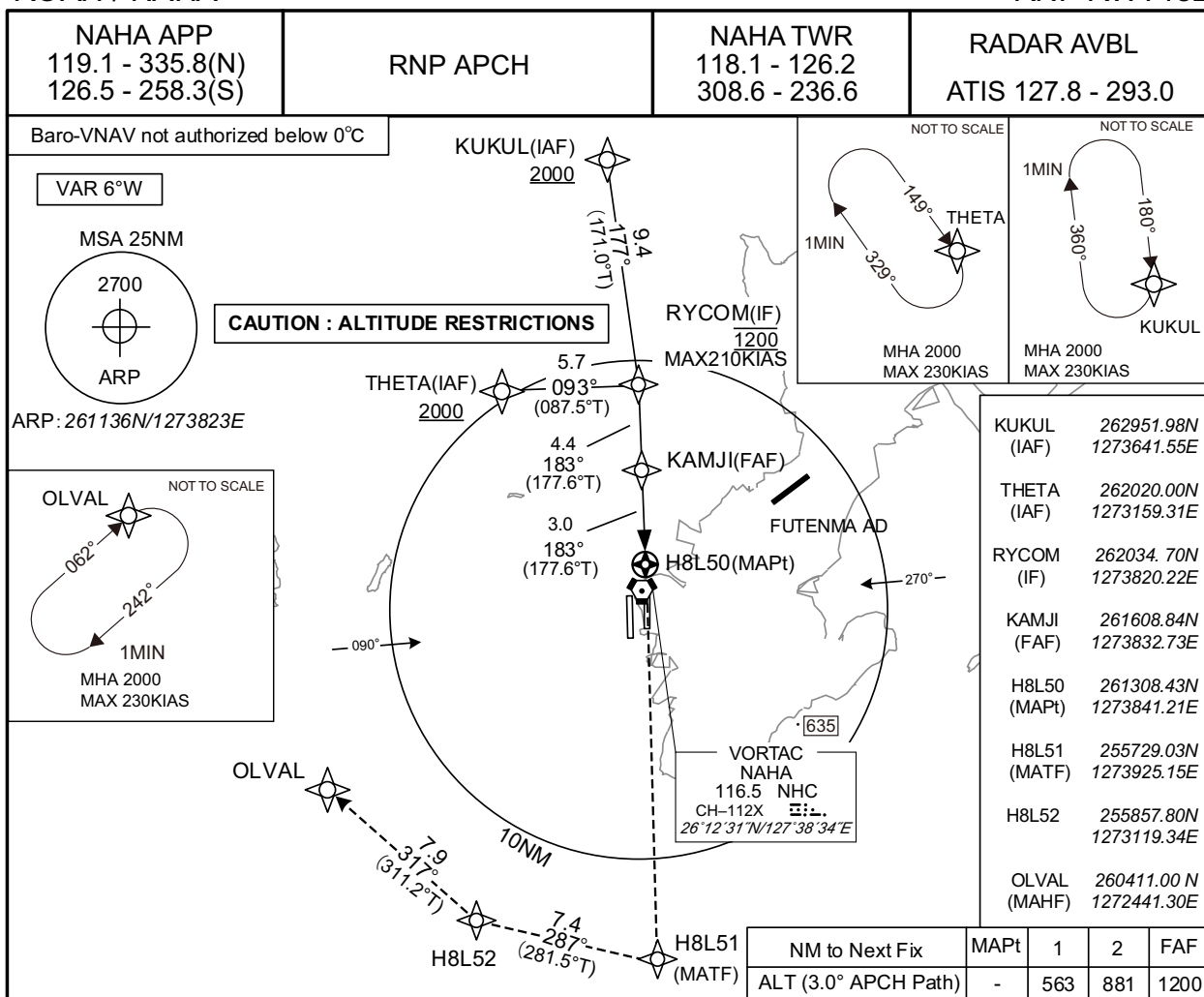
Circling to WEST side of RWY only.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

ROAH / NAHA

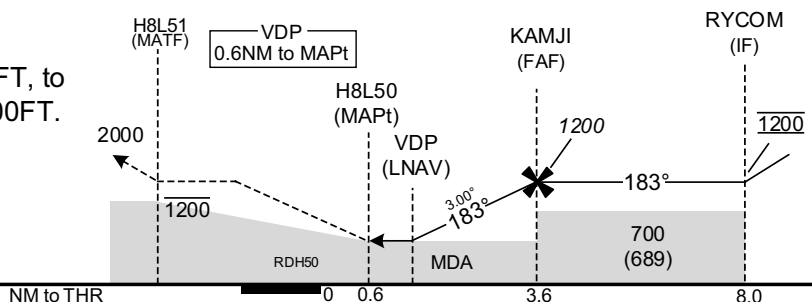
RNP RWY18L



MISSED APPROACH

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

Contact NAHA APP.



CHANGE : Description of VAR.

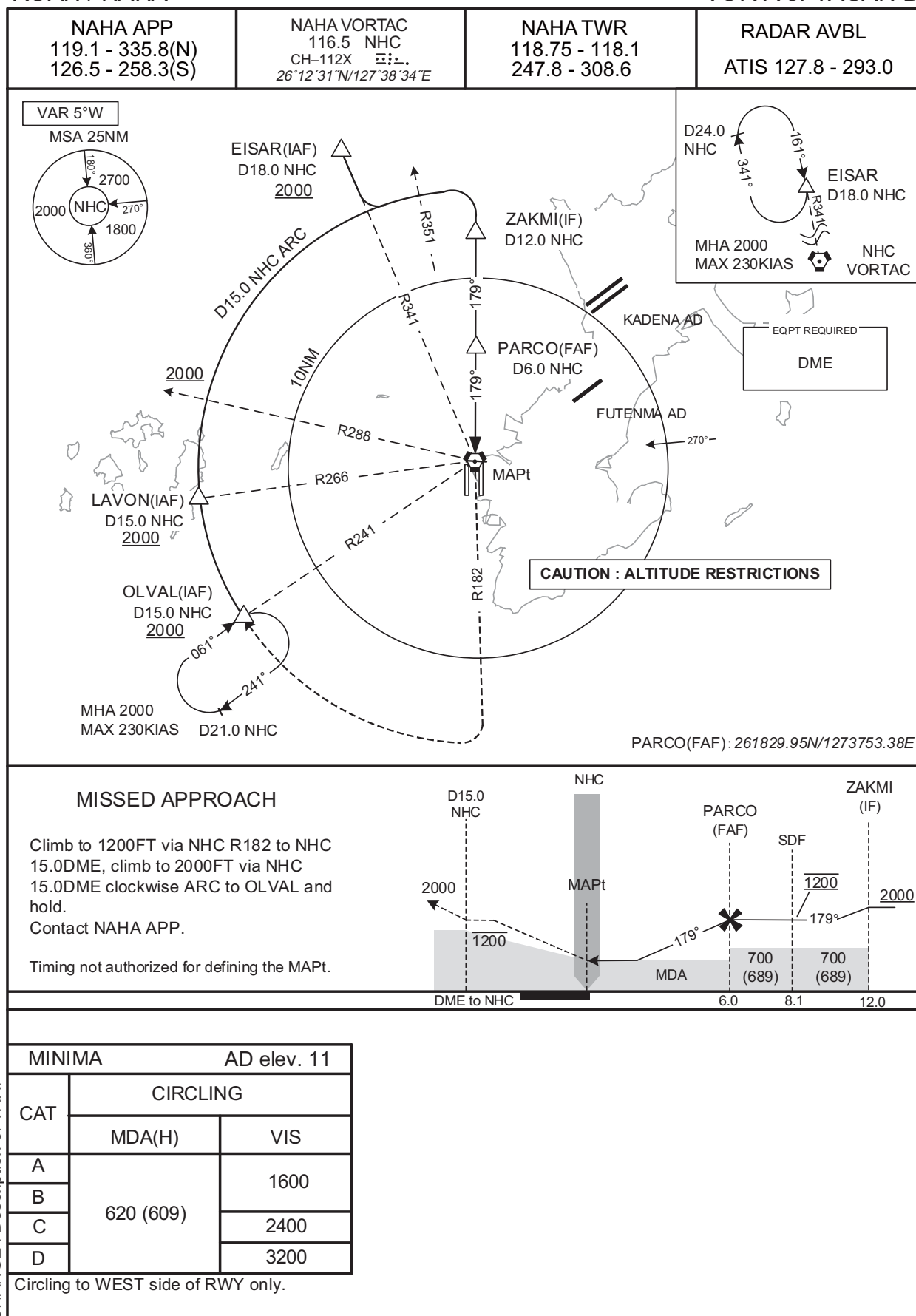
MINIMA		THR elev. 11		AD elev. 11	
CAT	LNAV/VNAV	LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H) VIS
A	430 (419)	1200	430 (419)	1200	620 (609)
B		1300		1300	
C		1400		1400	
D		1600		1600	

Circling to WEST side of RWY only.

INSTRUMENT APPROACH CHART

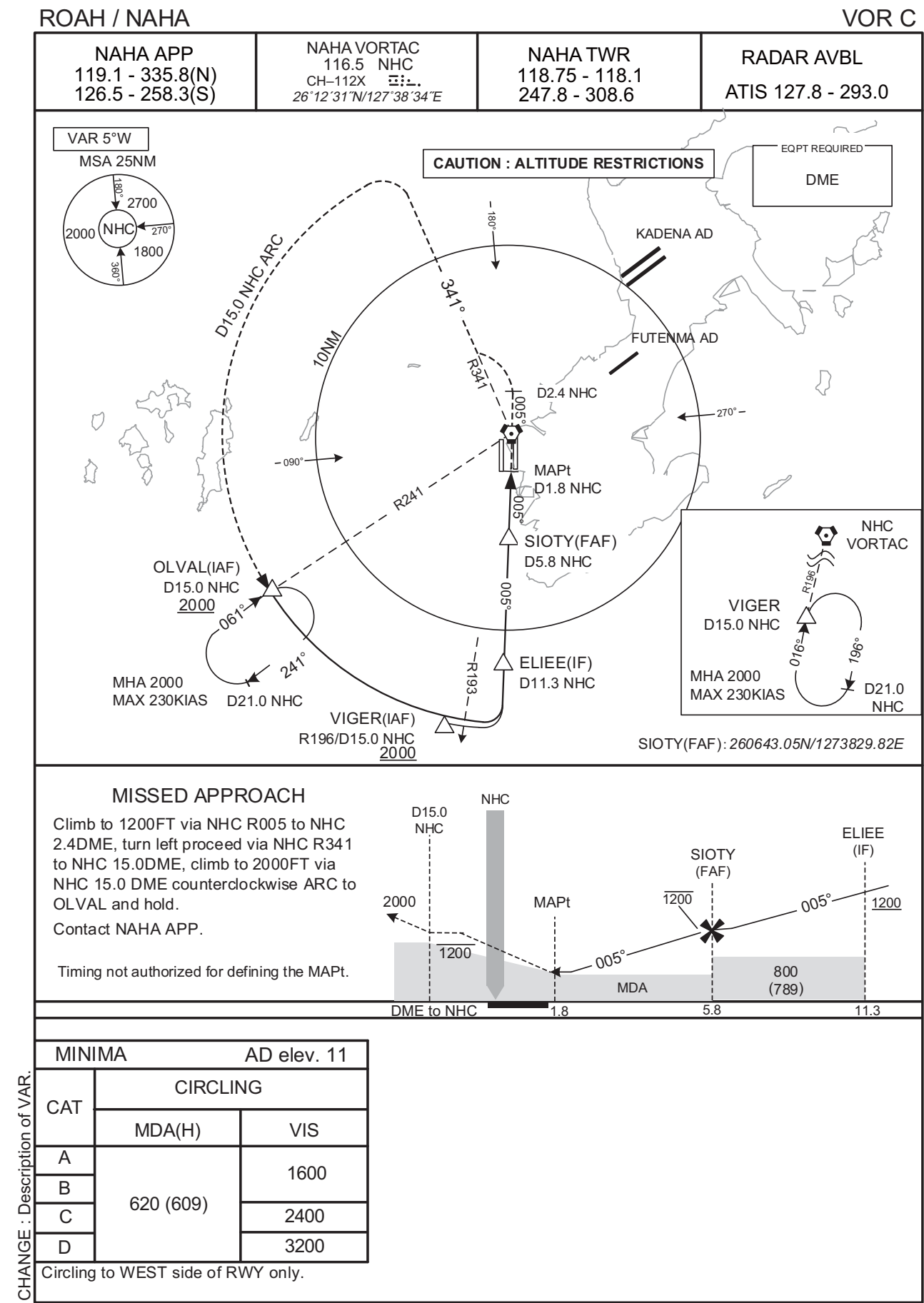
ROAH / NAHA

VOR A or TACAN B



CHANGE : Description of VAR.

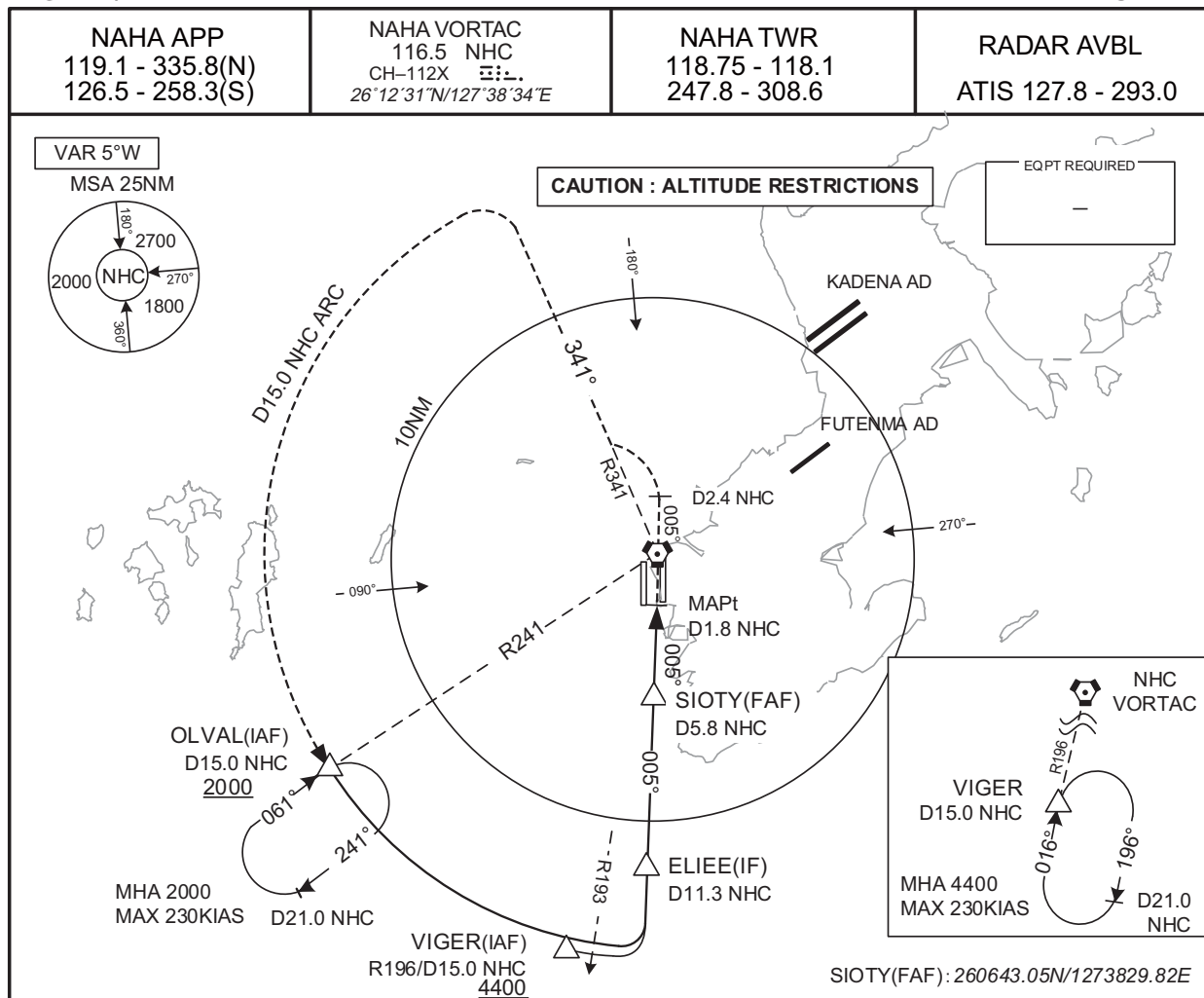
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

ROAH / NAHA

TACAN D

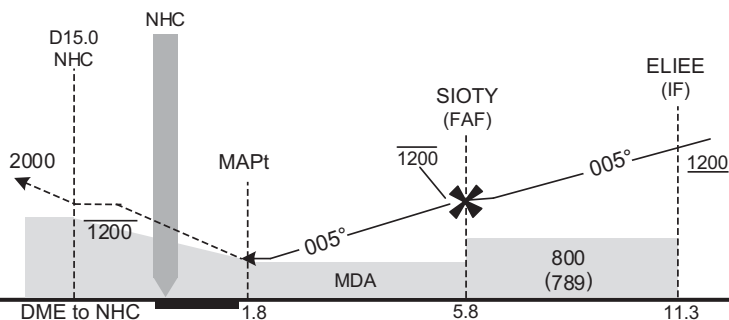


MISSED APPROACH

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.



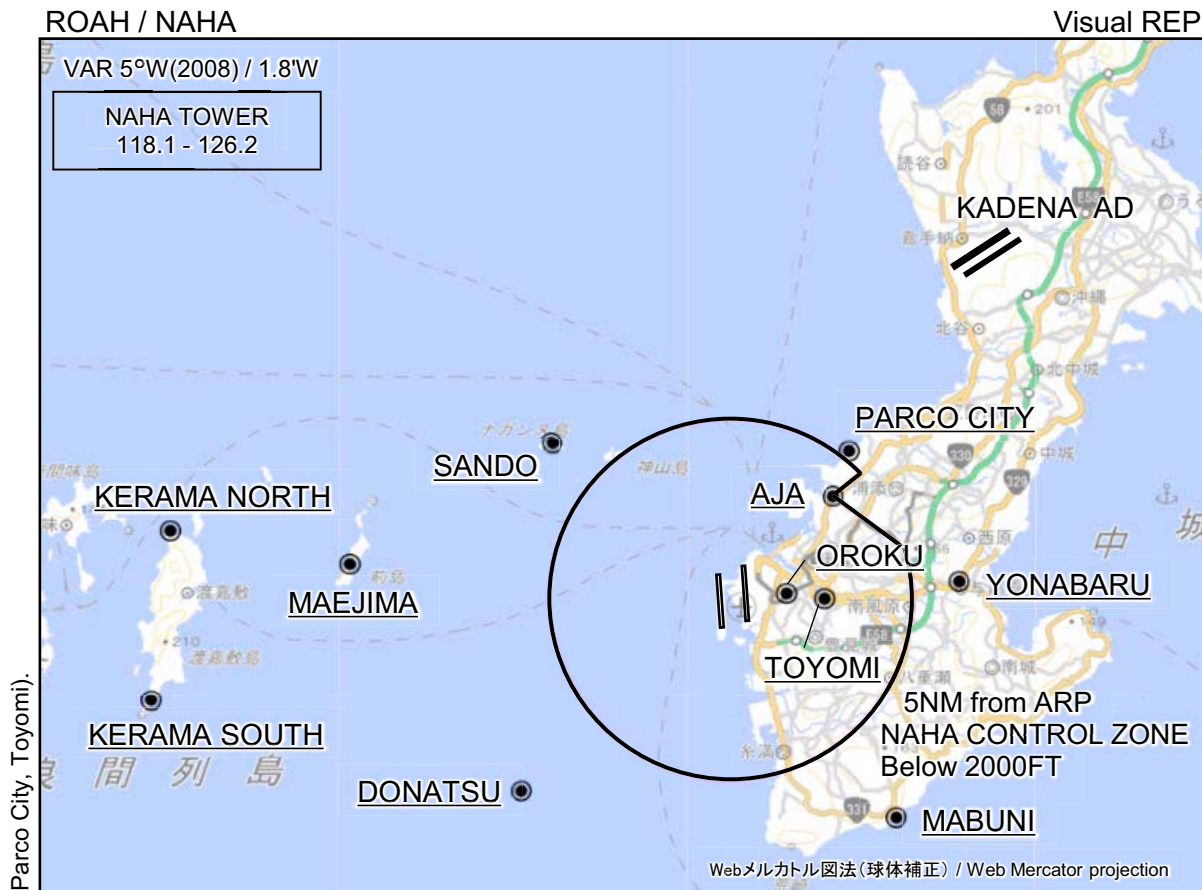
MINIMA

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 : Description of VAR.



※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).

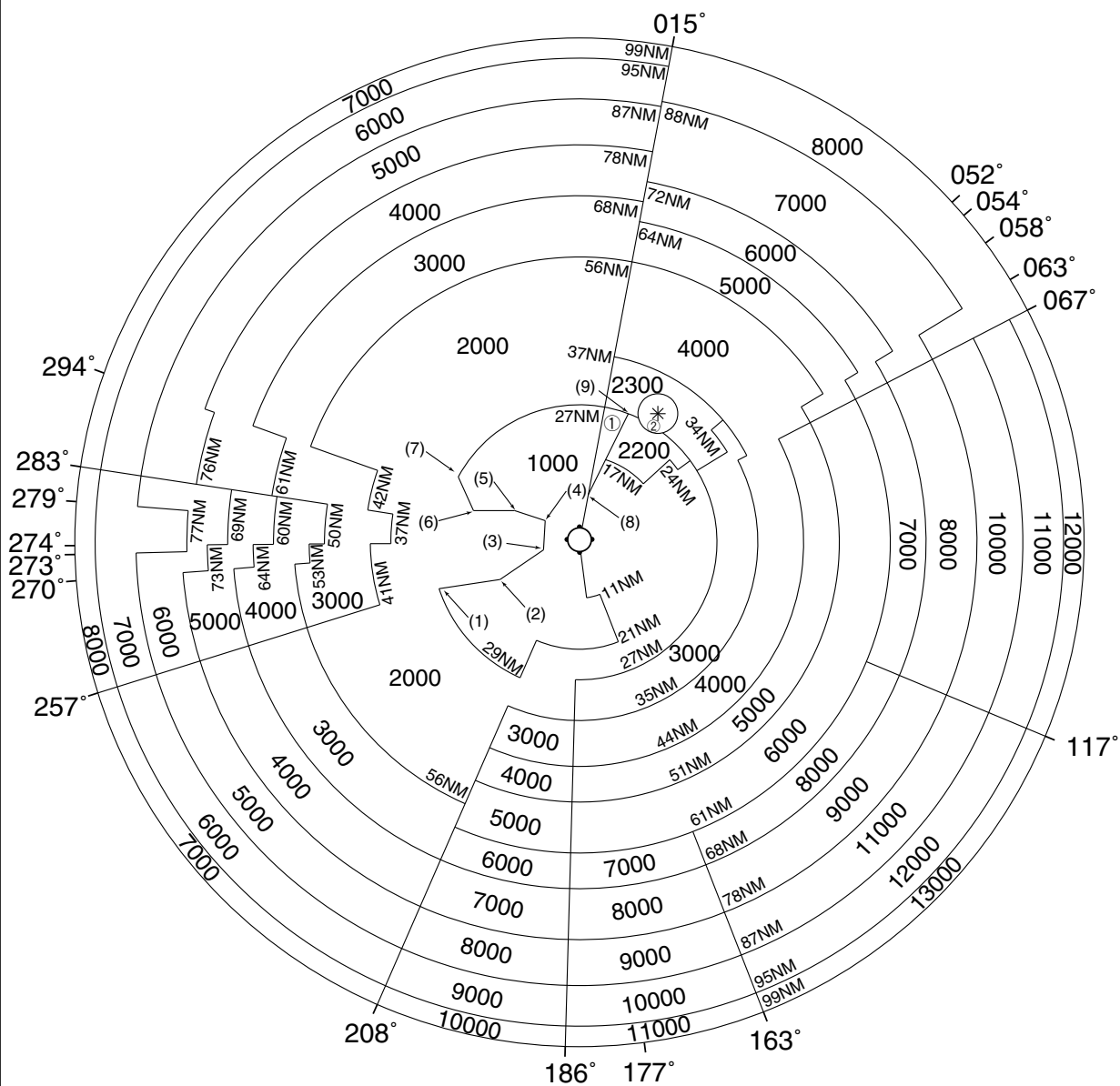
CHANGE : Map updated. BRG/DIST from ARP. Visual REP established(Oroku, Parco City, Toyomi).

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 | | |