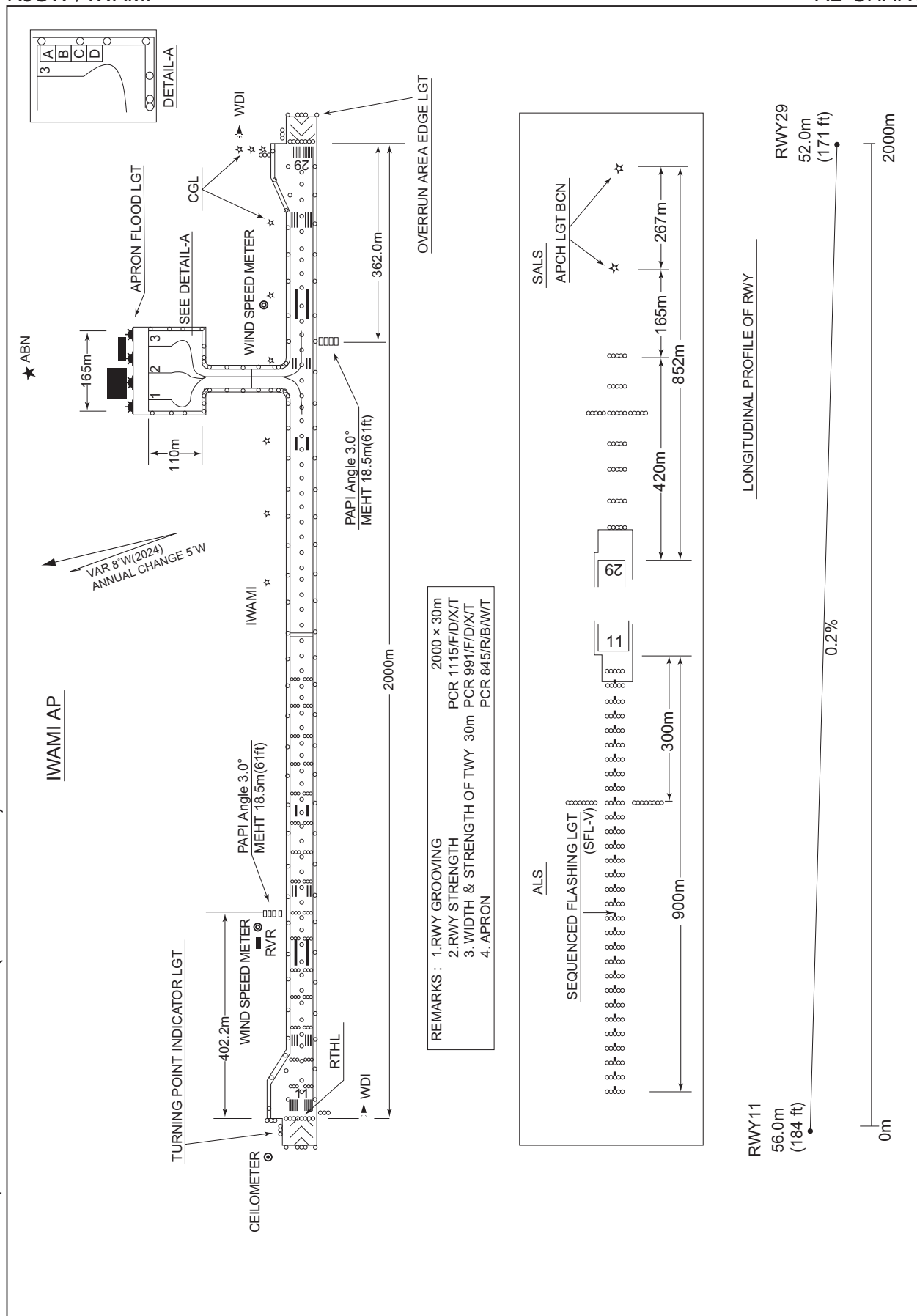


AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI

SID and TRANSITION

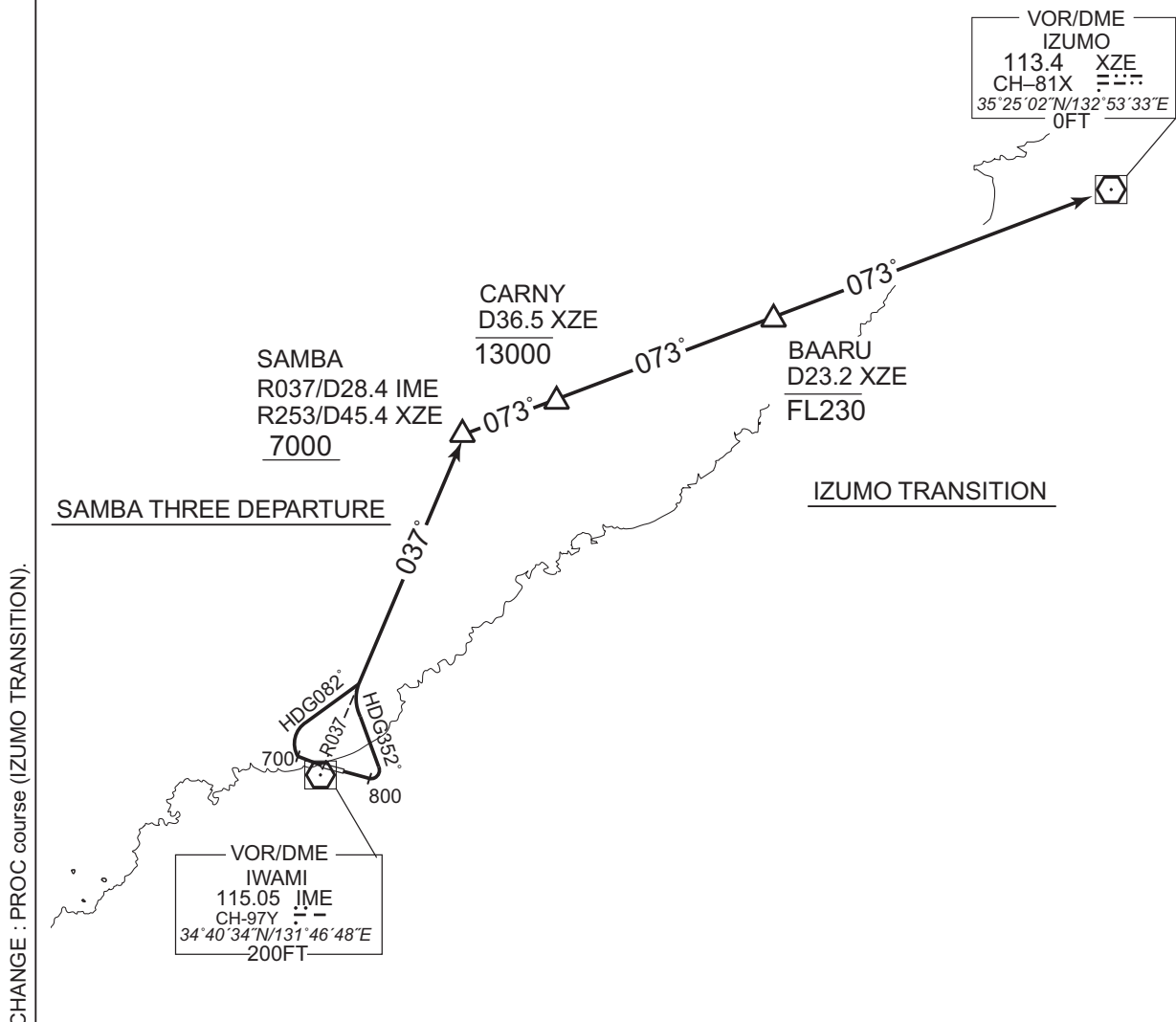
SAMBA THREE DEPARTURE

RWY11 : Climb RWY HDG to 800FT, turn left HDG352°,...
RWY29 : Climb RWY HDG to 700FT, turn right HDG082°,...
...to intercept and proceed via IME R037 to SAMBA.
Cross SAMBA at or above 7000FT.

Note RWY11 : 5.7% climb gradient required up to 1700FT.
OBST ALT 1322FT located at 4.8NM 094° FM end of RWY11.

IZUMO TRANSITION

From over SAMBA, via XZE R253 to XZE VOR/DME.
Cross CARNY at or below 13000FT, cross BAARU at or below FL230.



STANDARD DEPARTURE CHART-INSTRUMENT

RJOW / IWAMI

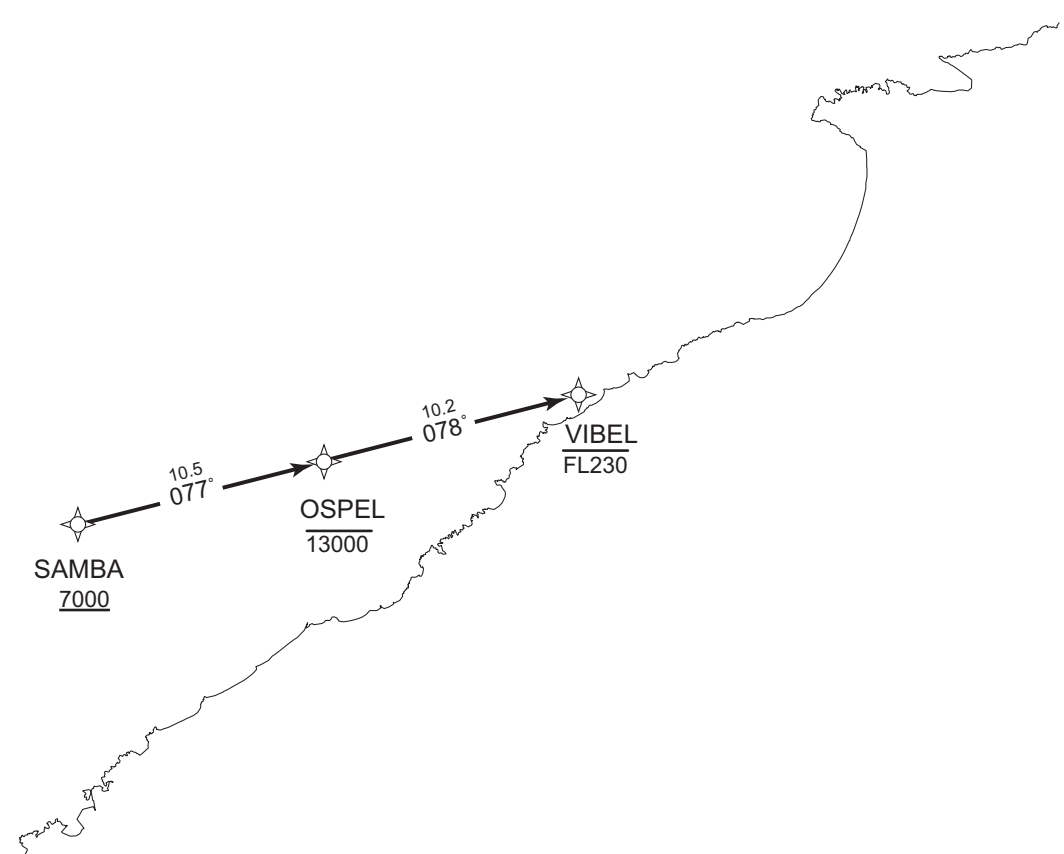
RNAV TRANSITION

VIBEL TRANSITION

RNAV1

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

VAR 8°W



From SAMBA at or above 7000FT, to OSPEL at or below 13000FT, to VIBEL at or below FL230.

Critical DME	STD : SAMBA – VIBEL
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

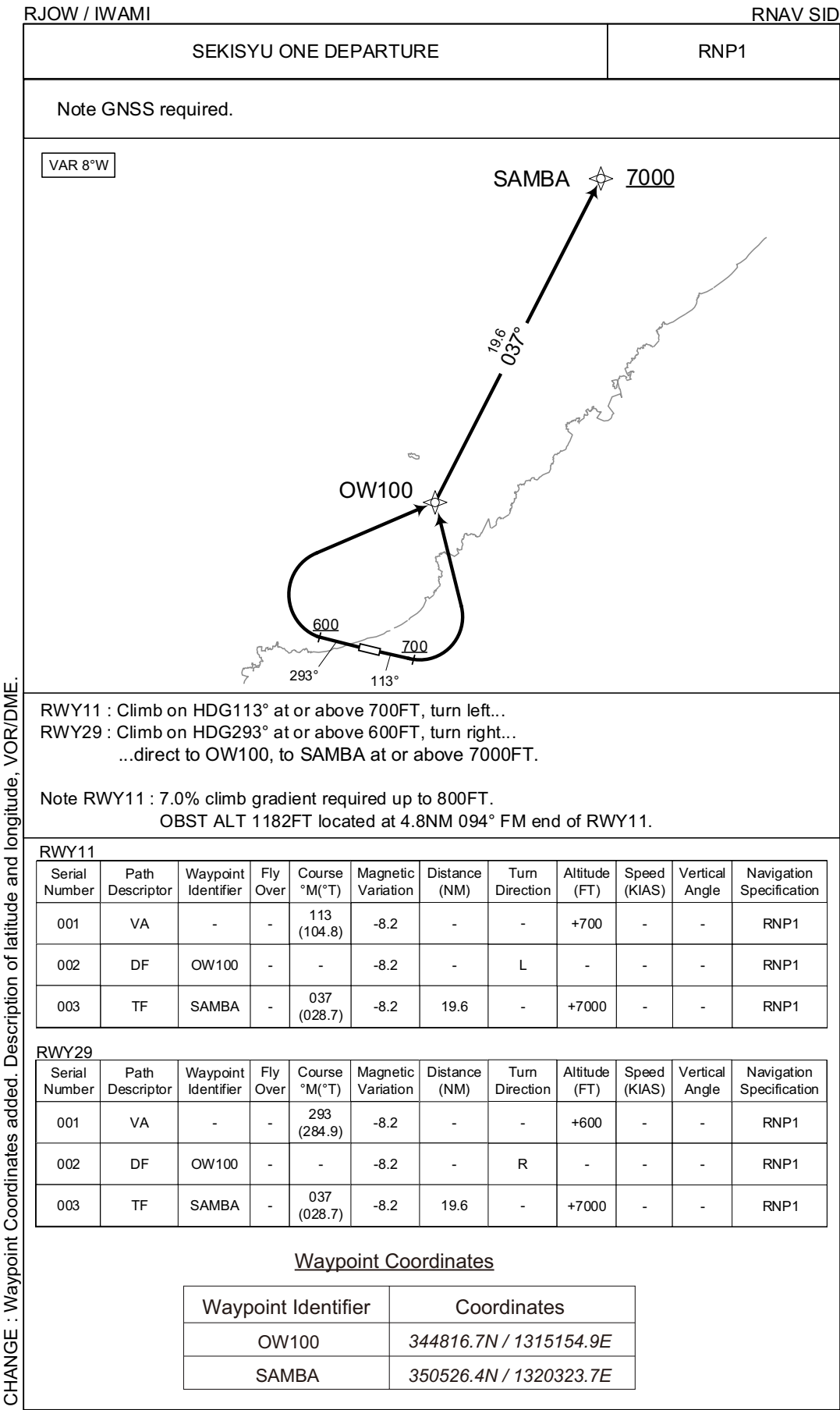
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SAMBA	–	–	-7.8	–	–	+7000	–	–	RNAV1
002	TF	OSPEL	–	077 (069.7)	-7.8	10.5	–	-13000	–	–	RNAV1
003	TF	VIBEL	–	078 (069.8)	-7.8	10.2	–	-FL230	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates
SAMBA	350526.4N / 1320323.7E
OSPEL	350903.6N / 1321523.9E
VIBEL	351234.2N / 1322706.9E

CHANGE : Waypoint Coordinate added.

STANDARD DEPARTURE CHART-INSTRUMENT



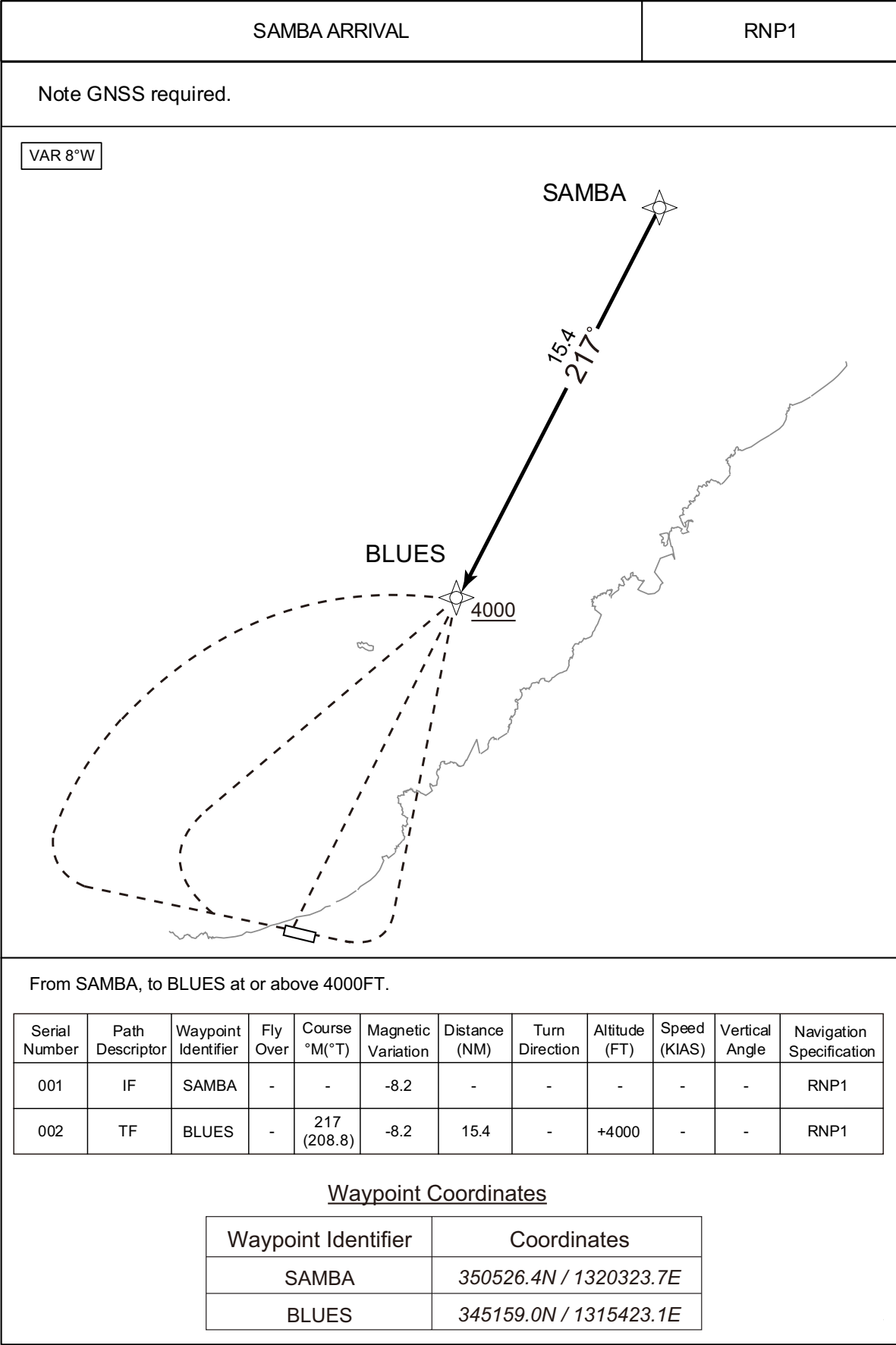
CHANGE : Waypoint Coordinates added. Description of latitude and longitude, VOR/DME.

INTENTIONALLY LEFT BLANK

STANDARD ARRIVAL CHART-INSTRUMENT

RJOW / IWAMI

RNAV STAR



CHANGE : Waypoint Coordinates added. Description of latitude and longitude, VOR/DME.

INTENTIONALLY LEFT BLANK

RJOW / IWAMI

ILS or LOC RWY11

VAR 8°W

MSA 25NM

EQPT REQUIRED
DME
VOR

MHA 4000
MAX 230KIAS

D18.0
IME

BLUES(IAF)
IME R037/D13.0

D13.0 IME ARC

10NM

R037

VOR/DME
IWAMI
115.05 IME
CH-97Y
34°40'34"N/131°46'48"E

KADAD(IF)
D13.1 IWA
R294/D13.0IME

113°

TOGIL(FAF)
D7.1 IWA

MAPt(LOC)
D0.6 IWA 353.

1748

978

1377

1328

1120

863

1110

212

275

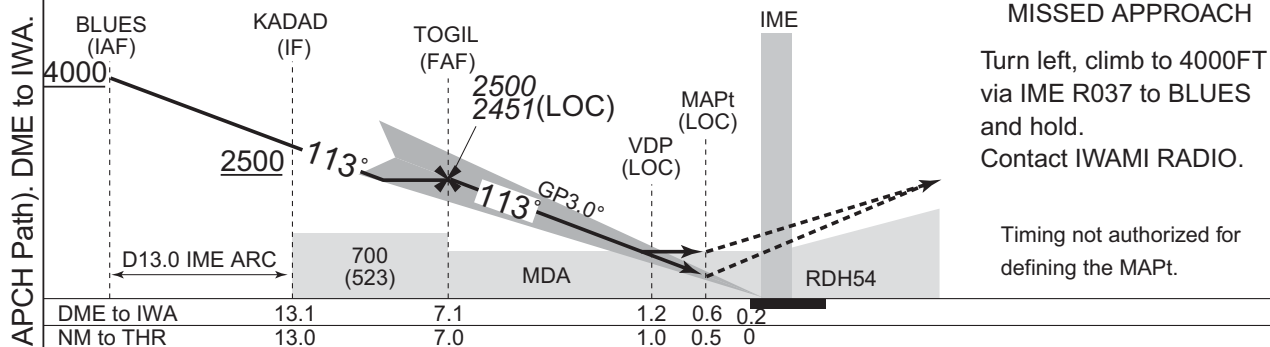
1177

734

1783

TOGIL(FAF) : 344229.67N/1313837.28E

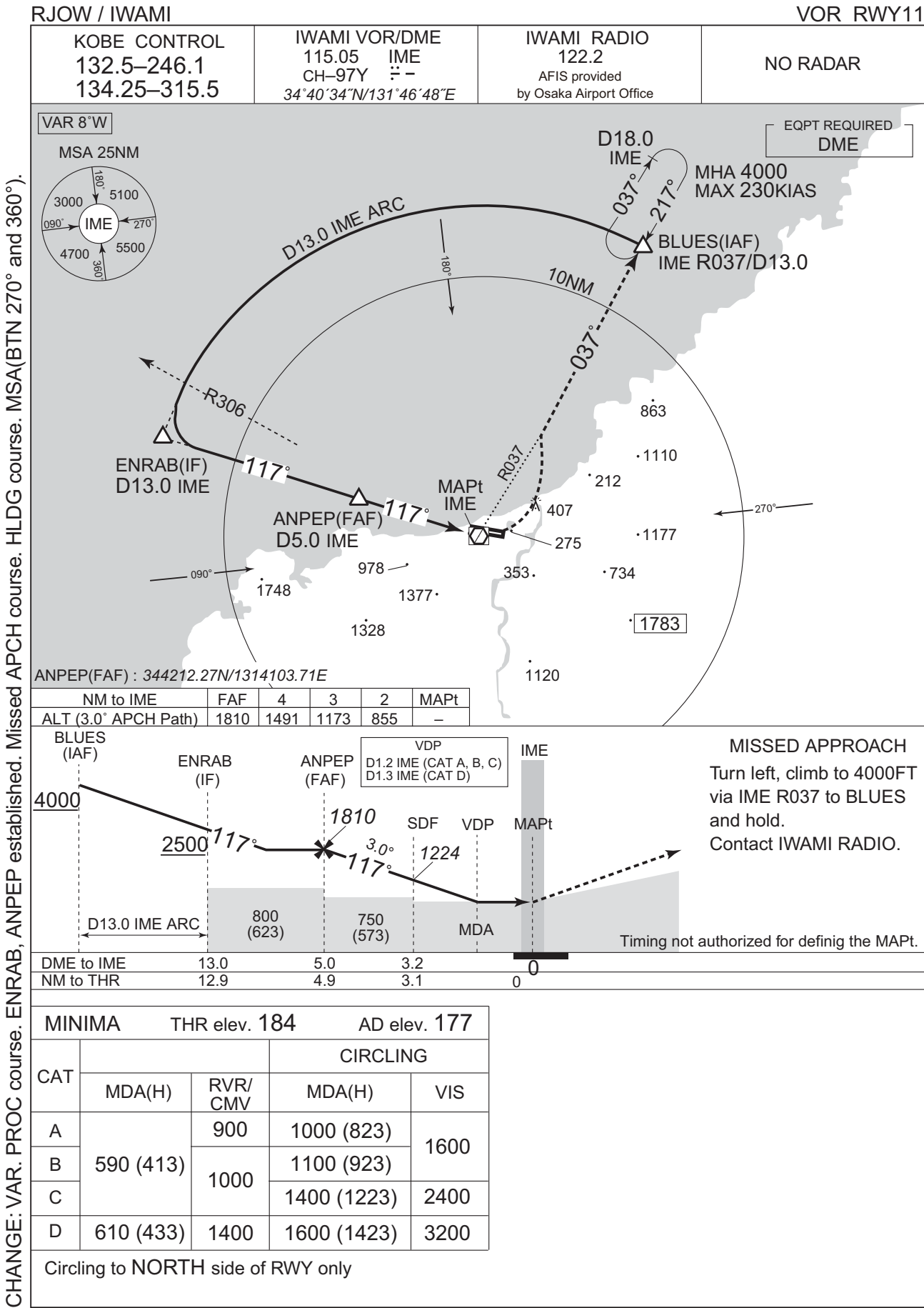
NM to IWA	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	2451	2404	2086	1768	1449	1131	812	-



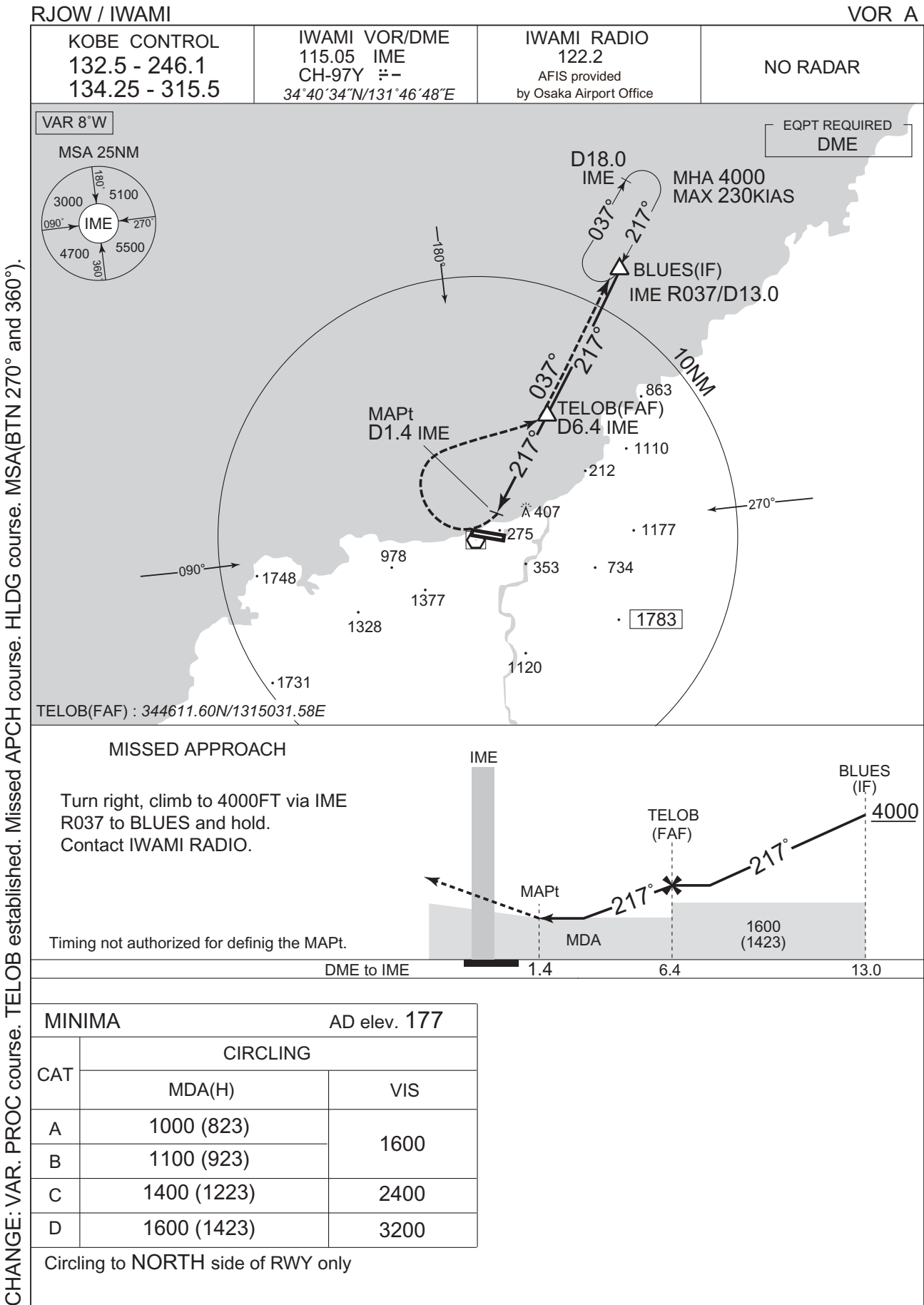
Missed APCH climb gradient MNM 4.0%						
MINIMA		THR elev. 184		AD elev. 177		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	384 (200)	550	530 (353)	900	1000 (823)	1600
B				1000	1100 (923)	
C					1400 (1223)	2400
D					1400	1600 (1423)

Circling to **NORTH** side of RWY only.
MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



CHANGE: VAR. PROC course. TELOB established. Missed APCH course. HLDG course. MSA(BTN 270° and 360°).

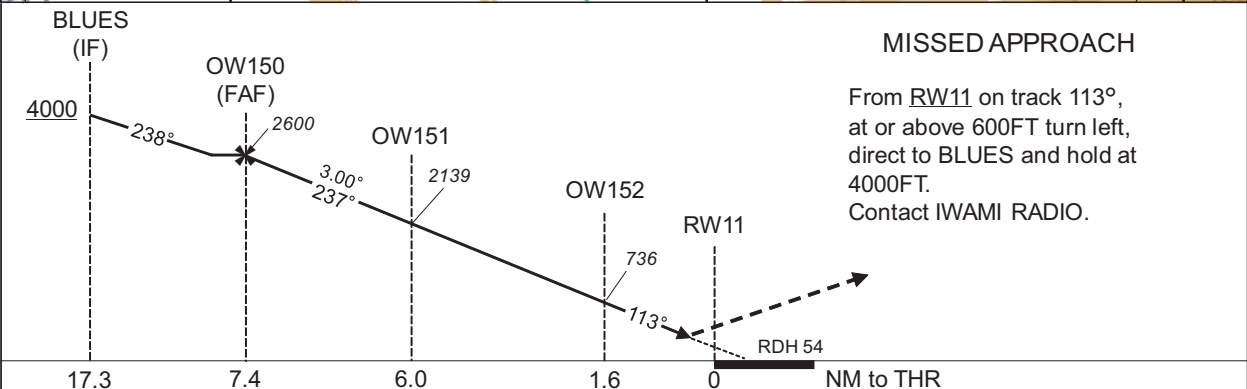
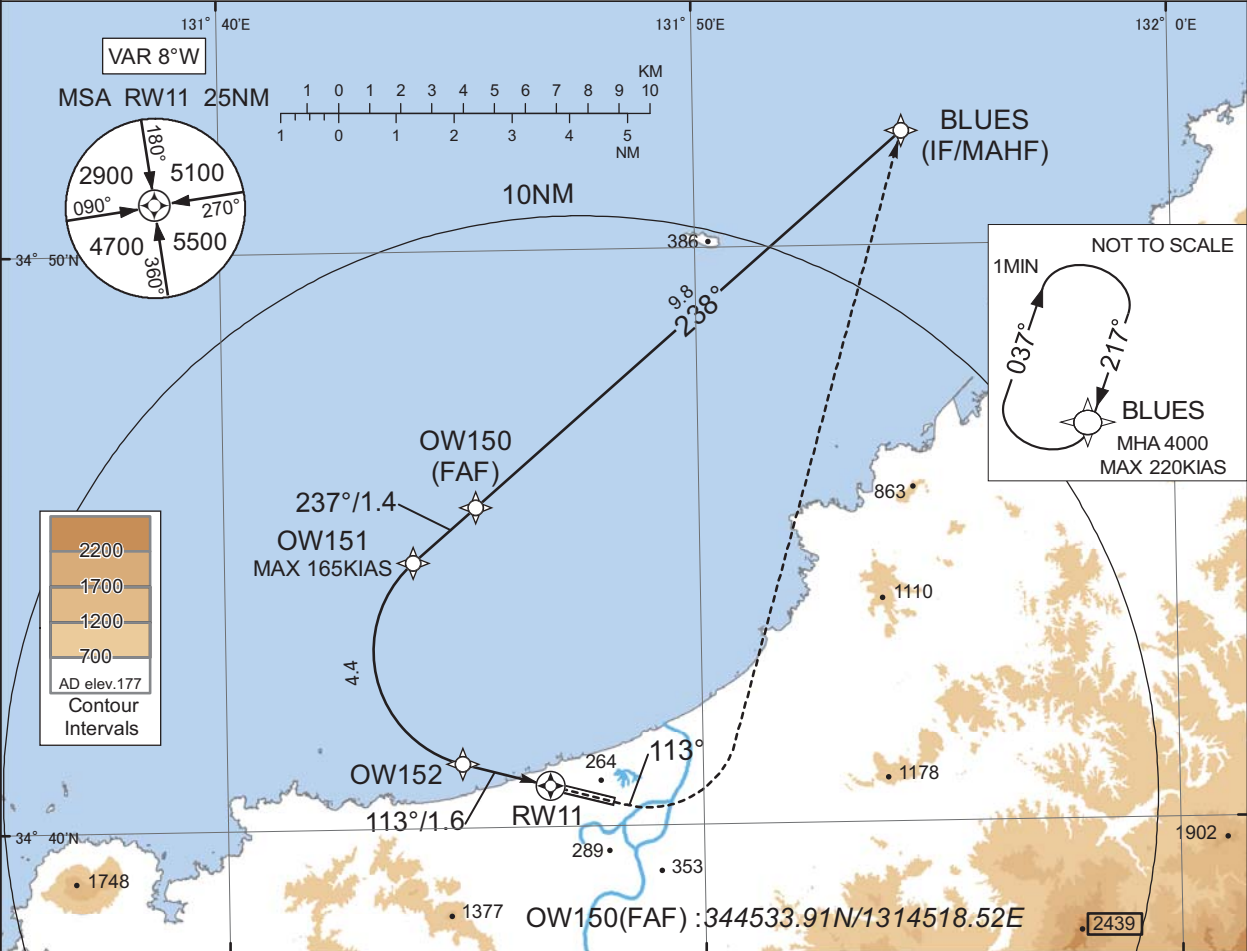
INSTRUMENT APPROACH CHART

RJOW / IWAMI

RNP RWY11(AR)

KOBE CONTROL 132.5 - 246.1 134.25 - 315.5	RNP AR RF required.	IWAMI RADIO 122.2 AFIS provided by Osaka Airport Office	NO RADAR
---	------------------------	--	----------

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C



Missed APCH climb gradient MNM 5.0%		
MINIMA	THR elev. 184	AD elev. 177
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	484(300)	1000
D	-	-

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : HLDG pattern for Using NAVAID abolished.

INSTRUMENT APPROACH CHART

RJOW / IWAMI

RNP RWY11(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	BLUES	-	-	-8.2	-	-	+4000	-	-	1.0
002	TF	OW150	-	238 (229.3)	-8.2	9.8	-	2600	-	-	1.0
003	TF	OW151	-	237 (229.2)	-8.2	1.4	-	2139	-165	-3.00	0.3
004	RF Center: OWRF1 r=2.03NM	OW152	-	-	-8.2	4.4	L	736	-	-3.00	0.3
005	TF	RW11	Y	113 (104.8)	-8.2	1.6	-	238	-	-3.00/54	0.3
006	FA	-	-	113 (104.8)	-8.2	-	-	+600	-	-	1.0
007	DF	BLUES	-	-	-8.2	-	L	4000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	BLUES	217 (208.7)	-8.2	1.0 (-13000)	R	4000	13000	-220 (-13000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BLUES	345159.02N / 1315423.09E	OWRF1	344304.90N / 1314534.53E
OW150	344533.91N / 1314518.52E		
OW151	344437.18N / 1314358.51E		
OW152	344107.26N / 1314456.99E		
RW11	344043.28N / 1314647.11E		

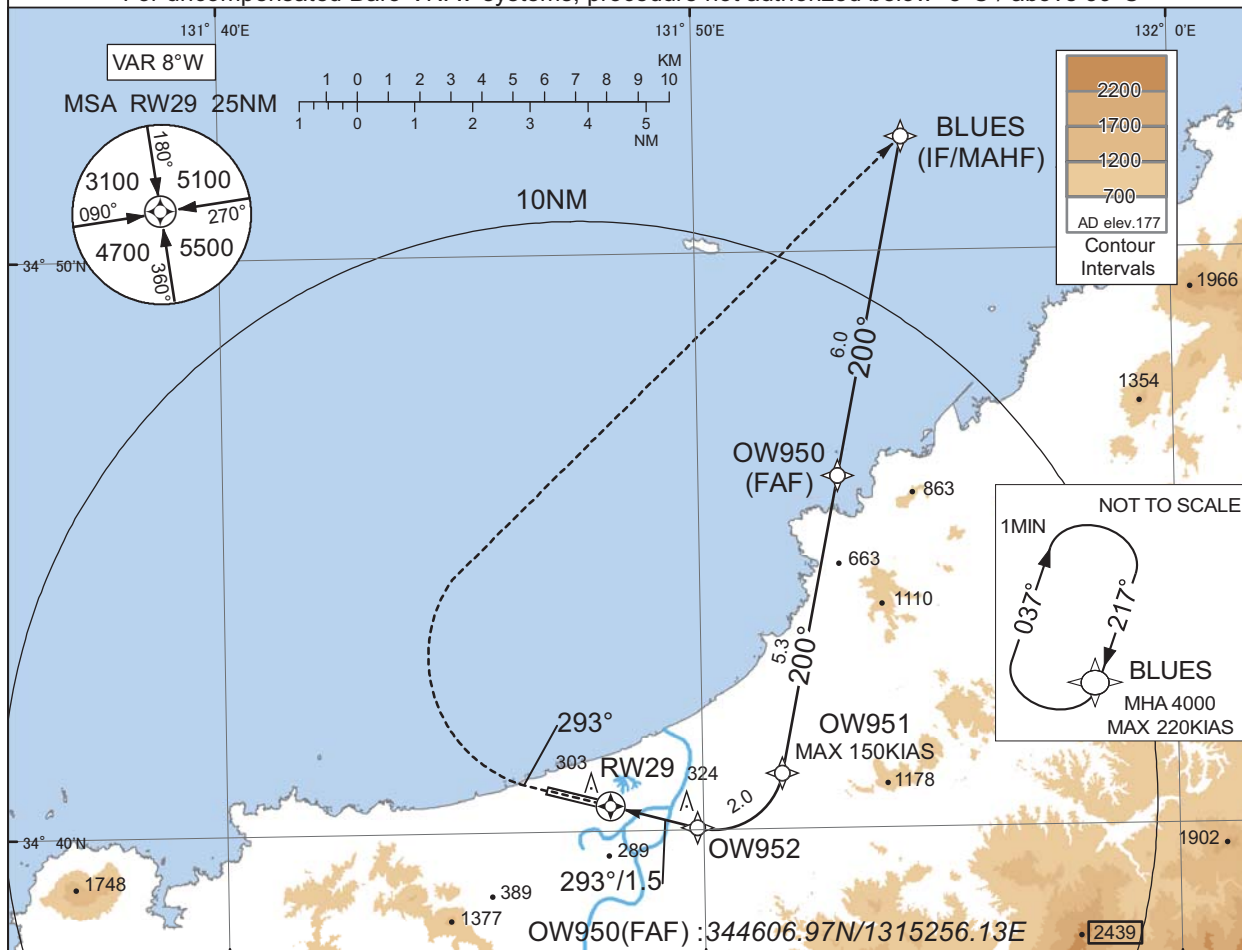
CHANGE : VAR. Course FM BLUES to OW150. RNAV HLDG established.

RJOW / IWAMI

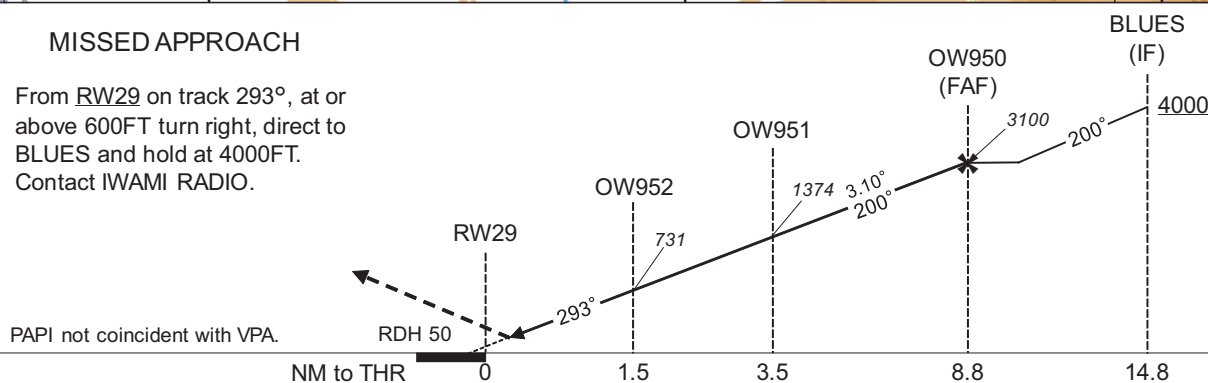
RNP RWY29(AR)

KOBE CONTROL 132.5 - 246.1 134.25 - 315.5	RNP AR RF required.	IWAMI RADIO 122.2 AFIS provided by Osaka Airport Office	NO RADAR
---	------------------------	--	----------

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 39°C



From RW29 on track 293°, at or above 600FT turn right, direct to BLUES and hold at 4000FT.
Contact IWAMI RADIO.



Missed APCH climb gradient MNM 4.0%

MINIMA		THR elev. 171	AD elev. 177	
CAT	RNP 0.16		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B			-	-
C	471(300)	1400	489(318)	1400
D	-	-	-	-

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : HLDG pattern for Using NAVAID abolished.

INSTRUMENT APPROACH CHART

RJOW / IWAMI

RNP RWY29(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/ RDH (°/FT)	RNP Value
001	IF	BLUES	-	-	-8.2	-	-	+4000	-	-	1.0
002	TF	OW950	-	200 (191.5)	-8.2	6.0	-	3100	-	-	1.0
003	TF	OW951	-	200 (191.5)	-8.2	5.3	-	1374	-150	-3.10	0.16 0.30
004	RF Center: OWRF2 r=1.20NM	OW952	-	-	-8.2	2.0	R	731	-	-3.10	0.16 0.30
005	TF	RW29	Y	293 (284.9)	-8.2	1.5	-	221	-	-3.10/50	0.16 0.30
006	FA	-	-	293 (284.9)	-8.2	-	-	+600	-	-	1.0
007	DF	BLUES	-	-	-8.2	-	R	4000	-	-	1.0

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	BLUES	217 (208.7)	-8.2	1.0 (-13000)	R	4000	13000	-220 (-13000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BLUES	345159.02N / 1315423.09E	OWRF2	344112.62N / 1315014.52E
OW950	344606.97N / 1315256.13E		
OW951	344058.27N / 1315140.08E		
OW952	344002.90N / 1314952.21E		
RW29	344026.72N / 1314803.07E		

CHANGE : VAR. PROC course. RNAV HLDG established.

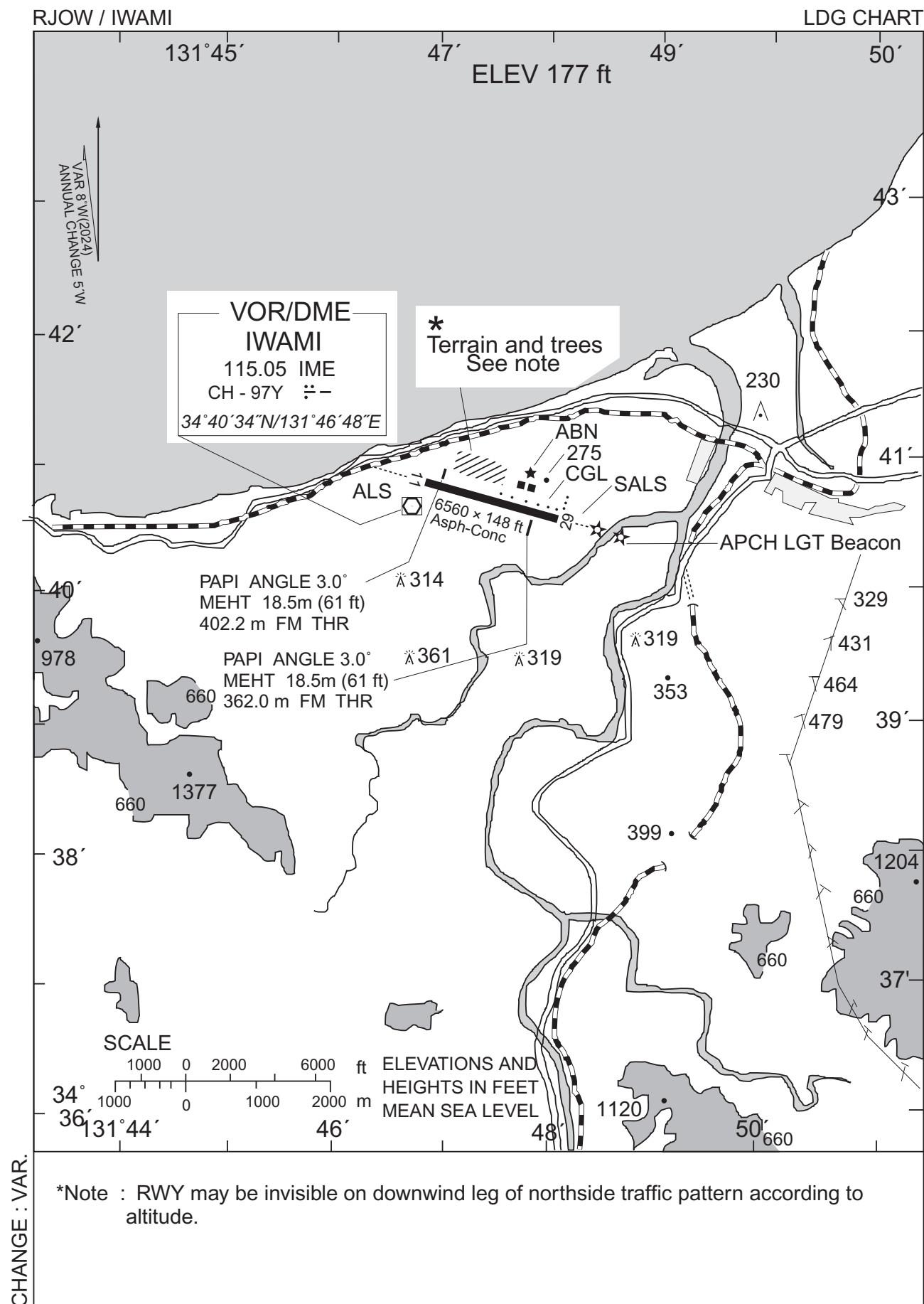
RJOW / IWAMI

Visual REP



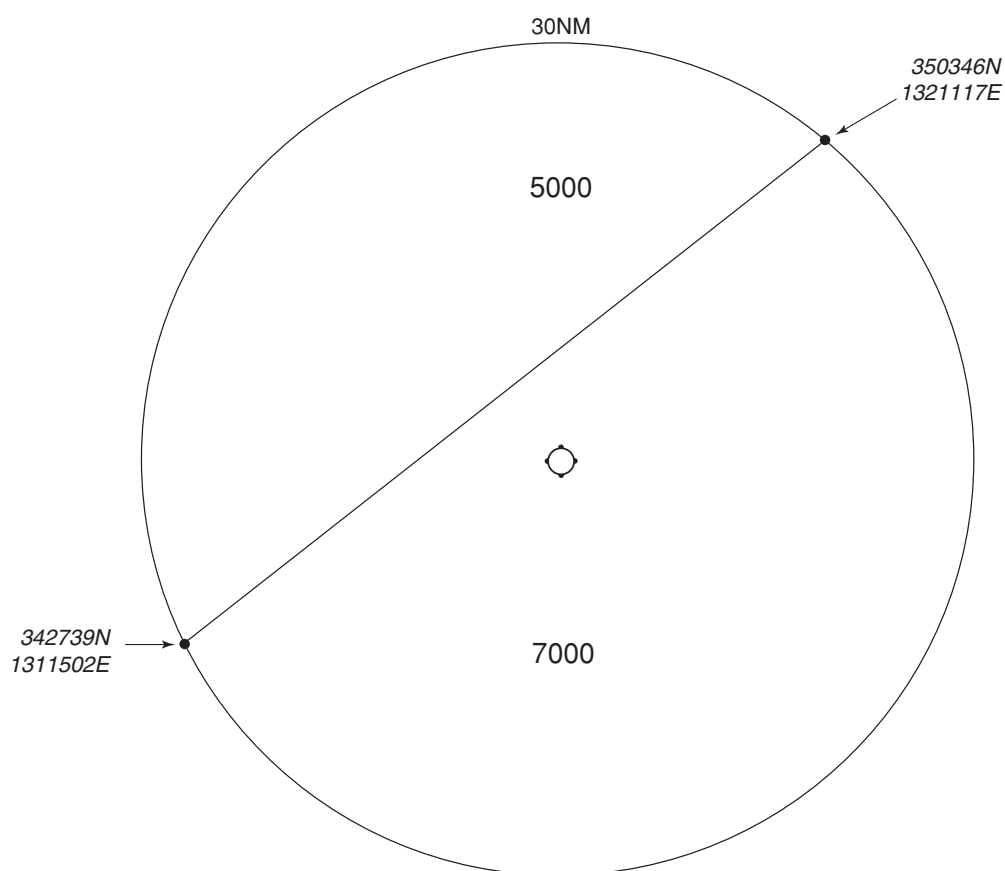
CHANGE : VAR.

Call sign	BRG / DIST from ARP	Remarks
魚待 Uomachi	038°T / 6.0NM	岬 Cape
高山 Takayama	266°T / 8.8NM	岬 Cape
日原 Nichihara	166°T / 8.9NM	駅 Station



RJOW / IWAMI

Minimum Vectoring Altitude CHART



CENTER : 344035N/1314725E (ARP)