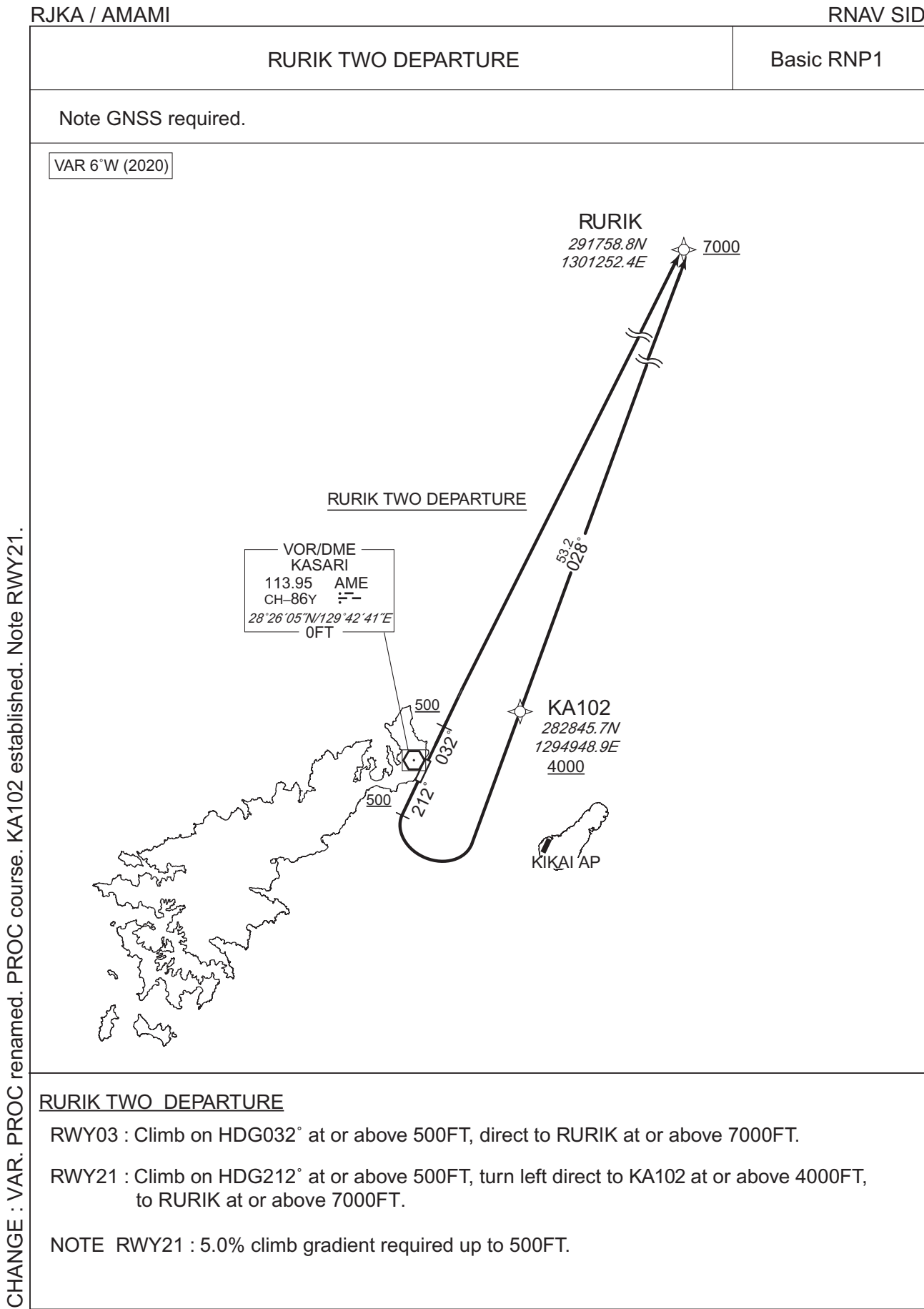


RJKA / AMAMI

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

RURIK TWO DEPARTURE

RWY 03

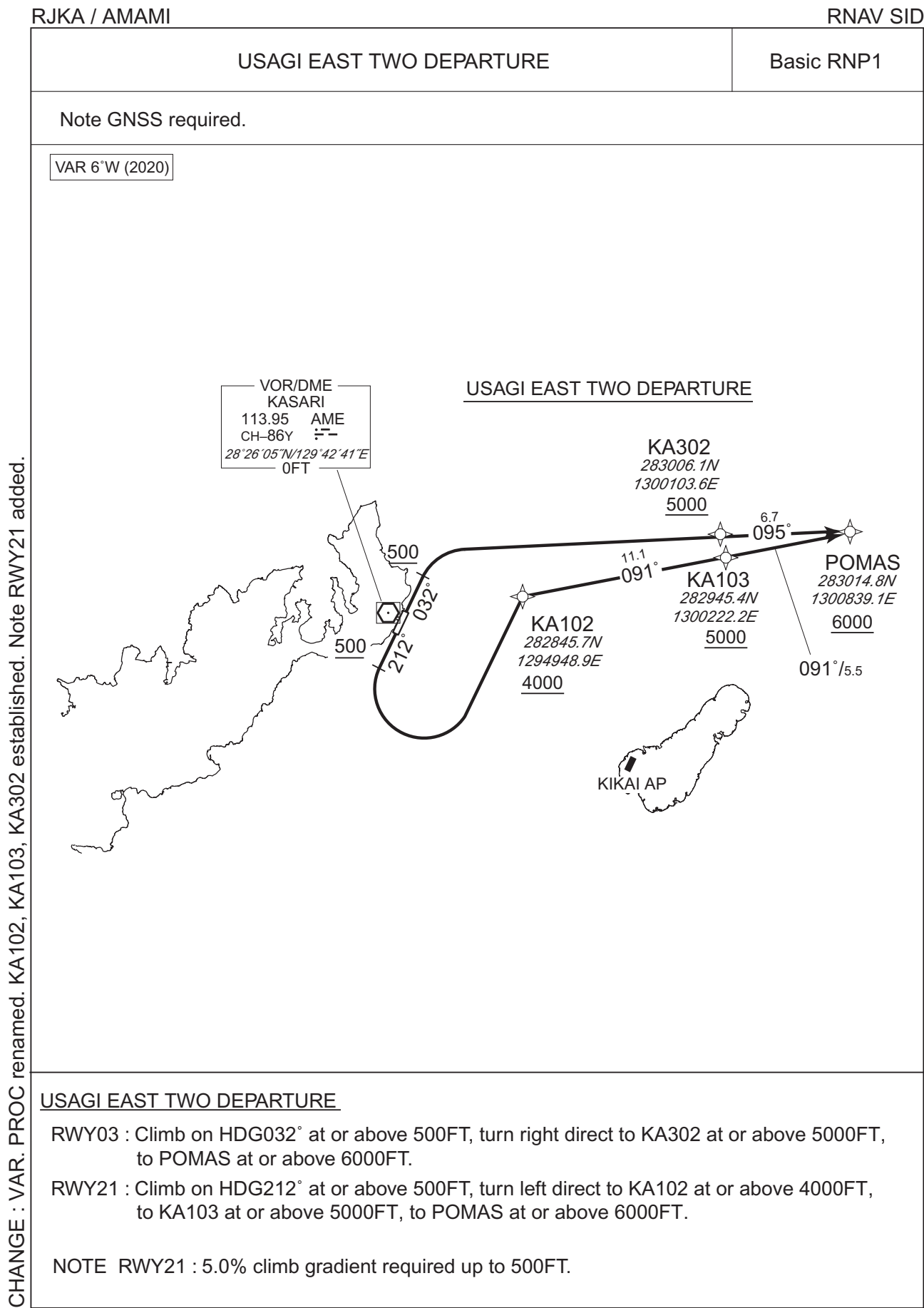
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	032 (025.8)	-6.1	—	—	+500	—	—	Basic RNP1
002	DF	RURIK	—	—	-6.1	—	—	+7000	—	—	Basic RNP1

RWY 21

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	—	—	212 (205.8)	-6.1	—	—	+500	—	—	Basic RNP1
002	DF	KA102	—	—	-6.1	—	L	+4000	—	—	Basic RNP1
003	TF	RURIK	—	028 (022.2)	-6.1	53.2	—	+7000	—	—	Basic RNP1

CHANGE : VAR. PROC renamed. PROC course. KA102 established.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

USAGI EAST TWO DEPARTURE

RWY 03

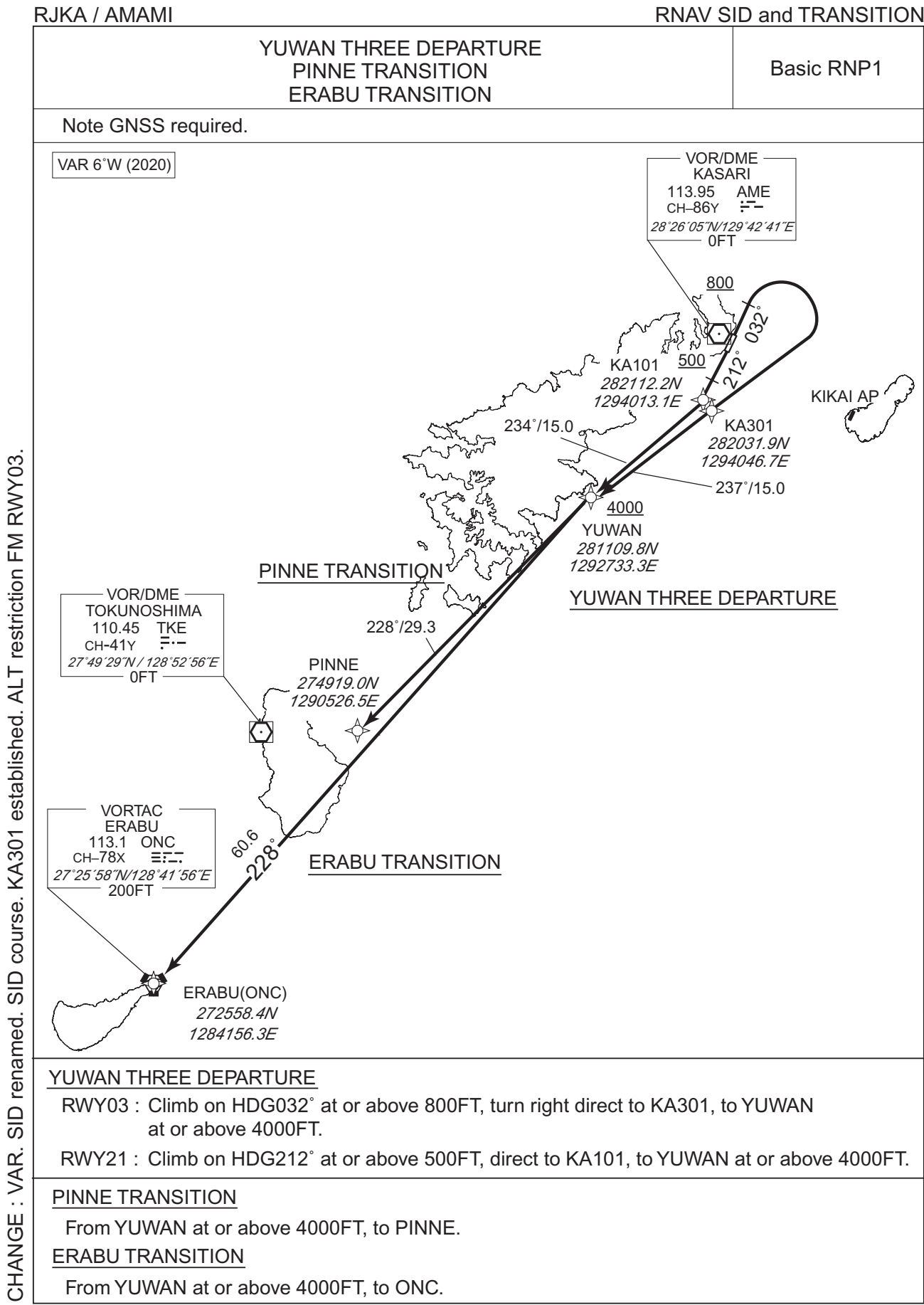
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	032 (025.8)	-6.1	—	—	+500	—	—	Basic RNP1
002	DF	KA302	—	—	-6.1	—	R	+5000	—	—	Basic RNP1
003	TF	POMAS	—	095 (088.7)	-6.1	6.7	—	+6000	—	—	Basic RNP1

RWY 21

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	—	—	212 (205.8)	-6.1	—	—	+500	—	—	Basic RNP1
002	DF	KA102	—	—	-6.1	—	L	+4000	—	—	Basic RNP1
003	TF	KA103	—	091 (084.8)	-6.1	11.1	—	+5000	—	—	Basic RNP1
004	TF	POMAS	—	091 (084.9)	-6.1	5.5	—	+6000	—	—	Basic RNP1

CHANGE : VAR. PROC renamed. KA102, KA103, KA302 established.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID and TRANSITION

YUWAN THREE DEPARTURE

RWY 03

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	—	—	032 (025.8)	-6.1	—	—	+800	—	—	Basic RNP1
002	DF	KA301	—	—	-6.1	—	R	—	—	—	Basic RNP1
003	TF	YUWAN	—	237 (231.2)	-6.1	15.0	—	+4000	—	—	Basic RNP1

RWY 21

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	—	—	212 (205.8)	-6.1	—	—	+500	—	—	Basic RNP1
002	DF	KA101	—	—	-6.1	—	—	—	—	—	Basic RNP1
003	TF	YUWAN	—	234 (228.1)	-6.1	15.0	—	+4000	—	—	Basic RNP1

PINNE 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	YUWAN	—	—	-6.1	—	—	+4000	—	—	Basic RNP1
002	TF	PINNE	—	228 (221.9)	-6.1	29.3	—	—	—	—	Basic RNP1

ERABU 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	YUWAN	—	—	-6.1	—	—	+4000	—	—	Basic RNP1
002	TF	ONC	—	228 (221.9)	-6.1	60.6	—	—	—	—	Basic RNP1

CHANGE : VAR. SID renamed. SID course. KA301 established. ALT restriction FM RWY03.

STANDARD DEPARTURE CHART -INSTRUMENT

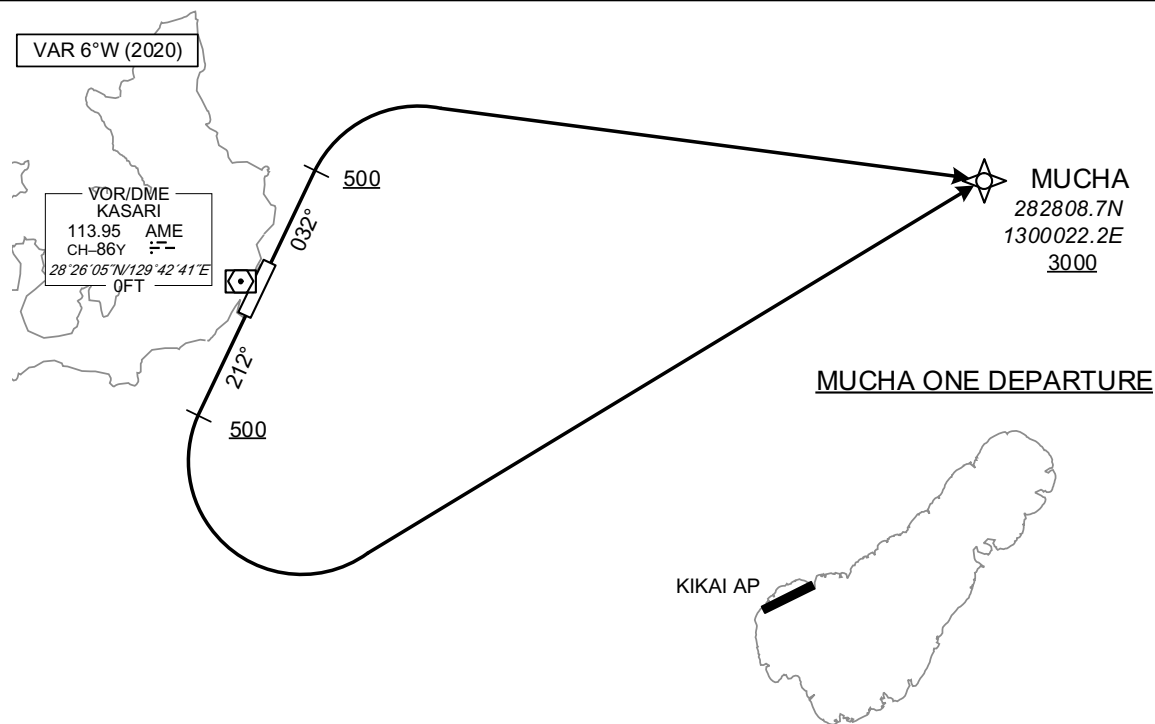
RJKA / AMAMI

RNAV SID

MUCHA ONE DEPARTURE

Basic RNP1

Note GNSS required.



MUCHA ONE DEPARTURE

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to MUCHA at or above 3000FT.

RWY21 : Climb on HDG212° at or above 500FT, turn left direct to MUCHA at or above 3000FT.

MUCHA ONE DEPARTURE

RWY03

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	-	-	032 (025.8)	-6.1	-	-	+500	-	-	Basic RNP1
002	DF	MUCHA	-	-	-6.1	-	R	+3000	-	-	Basic RNP1

RWY21

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	-	-	212 (205.8)	-6.1	-	-	+500	-	-	Basic RNP1
002	DF	MUCHA	-	-	-6.1	-	L	+3000	-	-	Basic RNP1

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

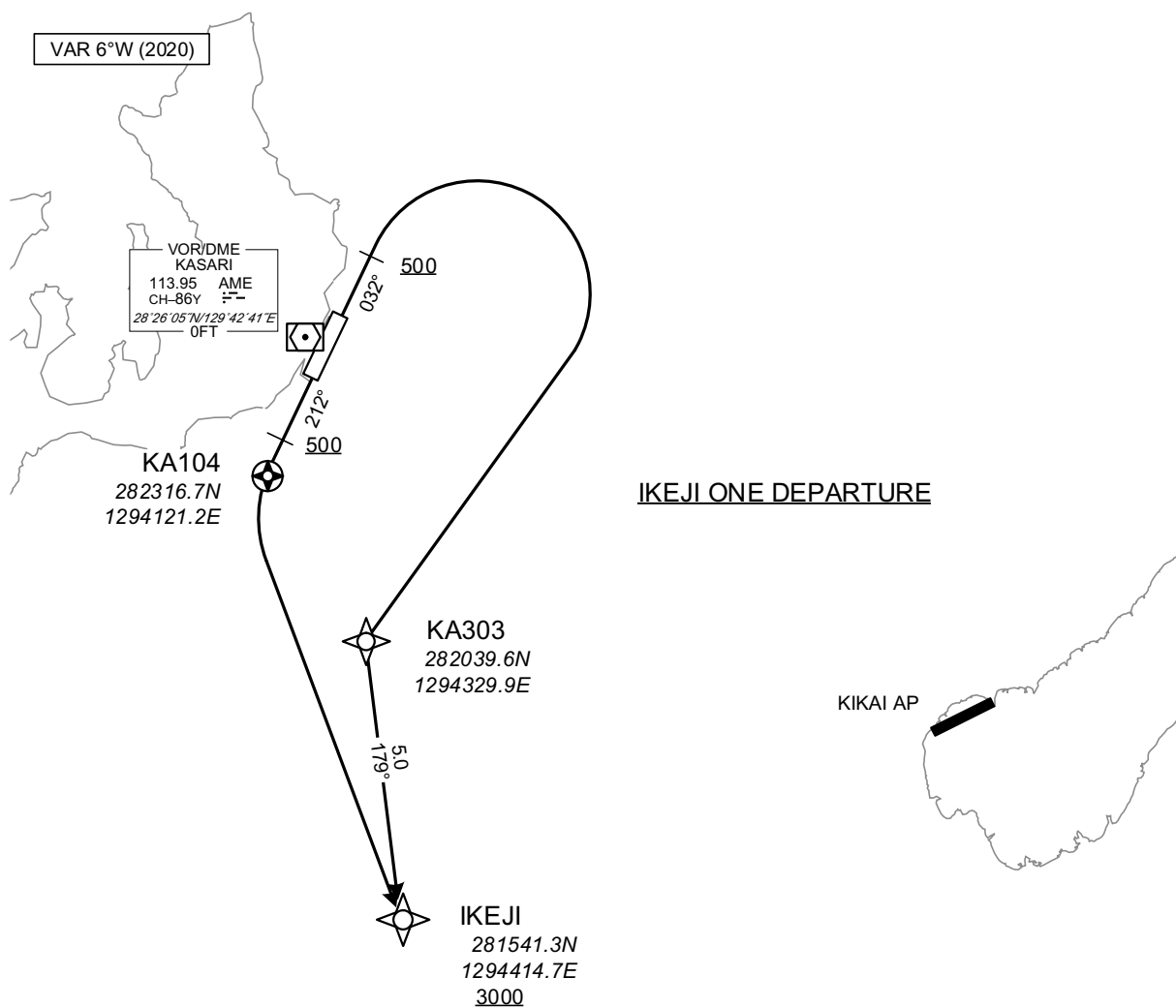
RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE

Basic RNP1

Note GNSS required.

IKEJI ONE DEPARTURE

RWY03 : Climb on HDG032° at or above 500FT, turn right direct to KA303, to IKEJI at or above 3000FT.

RWY21 : Climb on HDG212° at or above 500FT, direct to KA104, turn left direct to IKEJI at or above 3000FT.

NOTE RWY03 : 5.0% climb gradient required up to 500FT.

RWY21 : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

RNAV SID

IKEJI ONE DEPARTURE

RWY03

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	-	-	032 (025.8)	-6.1	-	-	+500	-	-	Basic RNP1
002	DF	KA303	-	-	-6.1	-	R	-	-	-	Basic RNP1
003	TF	IKEJI	-	179 (172.5)	-6.1	5.0	-	+3000	-	-	Basic RNP1

RWY21

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	-	-	212 (205.8)	-6.1	-	-	+500	-	-	Basic RNP1
002	DF	KA104	Y	-	-6.1	-	-	-	-	-	Basic RNP1
003	DF	IKEJI	-	-	-6.1	-	L	+3000	-	-	Basic RNP1

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

PINNE FIVE DEPARTURE

RWY 03 : Climb RWY HDG to 700FT, turn right HDG273° to intercept and proceed...

RWY 21 : Climb RWY HDG to AME 3.0DME, turn right,...

... via AME R228 to PINNE.

Cross PINNE at or above 6000FT.

ERABU FOUR DEPARTURE

RWY 03 : Climb RWY HDG to 500FT, turn right HDG246° to intercept and proceed...

RWY 21 : Climb RWY HDG to 500FT, turn left,...

... via AME R201, via ONC R062 to ONC VORTAC.

Cross ONC R062/32.0DME at assigned altitude.



STANDARD DEPARTURE CHART -INSTRUMENT

RJKA / AMAMI

SID

KASARI REVERSAL TWO DEPARTURE

RWY03 : Climb RWY HDG to 1000FT, turn right,...

RWY21 : Climb RWY HDG to 1000FT, turn left,...

...direct to AME VOR/DME. Cross AME VOR/DME at or above 3000FT.

POMAS FOUR DEPARTURE

RWY03 : Climb RWY HDG to 500FT, turn right HDG130°...

RWY21 : Climb RWY HDG to 500FT, turn left HDG040°...

... to intercept and proceed via AME R085 to POMAS.

Cross POMAS at or above 6000FT.



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STANDARD ARRIVAL CHART-INSTRUMENT

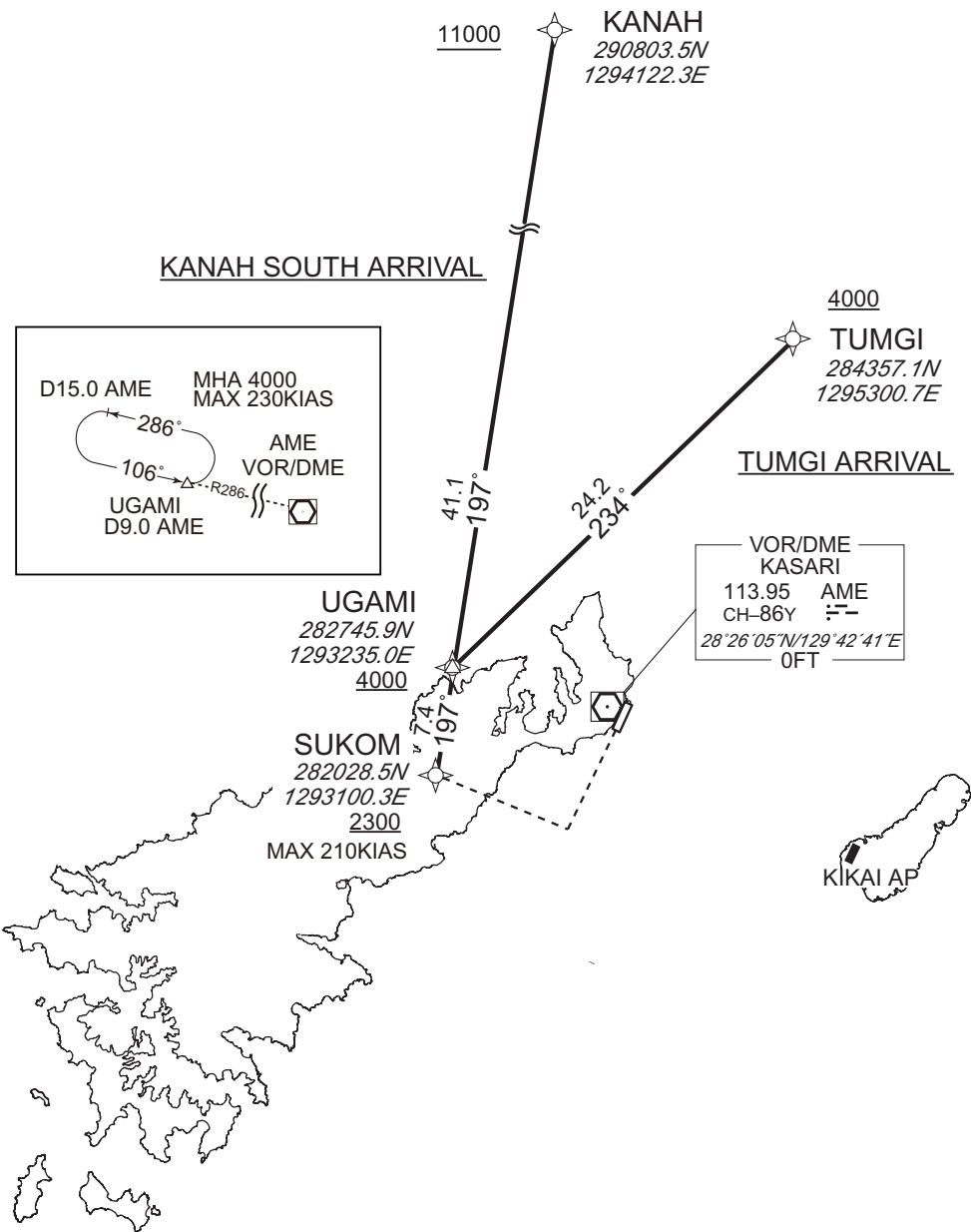
RJKA / AMAMI RNAV STAR RWY03

KANAH SOUTH ARRIVAL / TUMGI ARRIVAL	Basic RNP1
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Note GNSS required.

VAR 6°W (2020)

CHANGE : POMAS ARRIVAL, YUWAN SOUTH ARRIVAL abolished. VAR. PROC course. UGAMI, SUKOM established. HLDG pattern (UGAMI) established.



STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY03

KANAH SOUTH ARRIVAL

From KANAH at or above 11000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

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	KANAH	—	—	-6.1	—	—	+11000	—	—	Basic RNP1
002	TF	UGAMI	—	197 (190.9)	-6.1	41.1	—	+4000	—	—	Basic RNP1
003	TF	SUKOM	—	197 (190.8)	-6.1	7.4	—	+2300	-210	—	Basic RNP1

TUMGI ARRIVAL

From TUMGI at or above 4000FT, to UGAMI at or above 4000FT, to SUKOM at or above 2300FT.

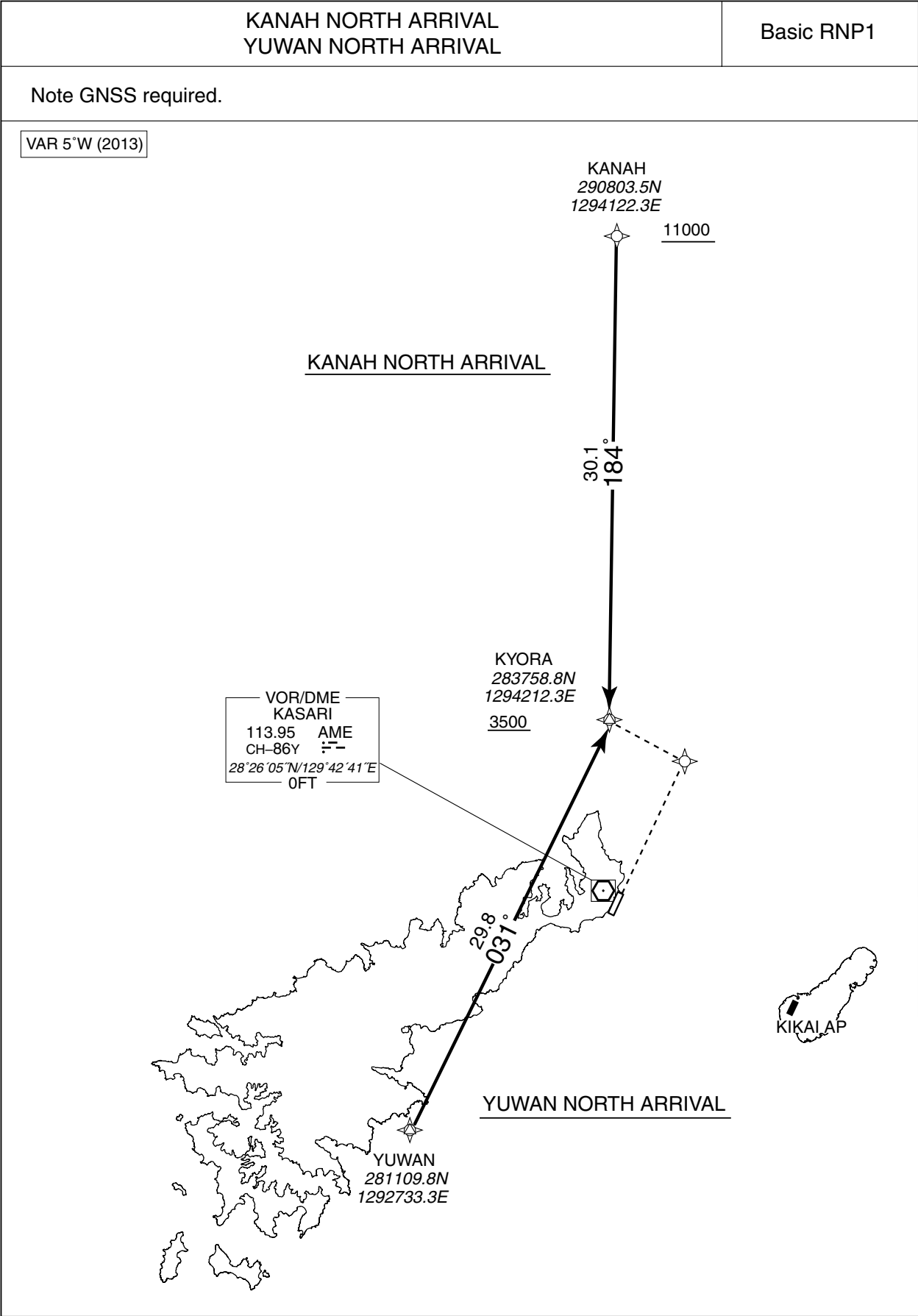
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TUMGI	—	—	-6.1	—	—	+4000	—	—	Basic RNP1
002	TF	UGAMI	—	234 (228.0)	-6.1	24.2	—	+4000	—	—	Basic RNP1
003	TF	SUKOM	—	197 (190.8)	-6.1	7.4	—	+2300	-210	—	Basic RNP1

CHANGE : POMAS ARRIVAL, YUWAN SOUTH ARRIVAL abolished. VAR. PROC course. UGAMI, SUKOM established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY21



STANDARD ARRIVAL CHART-INSTRUMENT

RJKA / AMAMI

RNAV STAR RWY21

KANAH NORTH ARRIVAL

From KANAH at or above 11000FT, to KYORA at or above 3500FT.

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	KANAH	—	—	-5.4	—	—	+11000	—	—	Basic RNP1
002	TF	KYORA	—	184 (178.6)	-5.4	30.1	—	+3500	—	—	Basic RNP1

YUWAN NORTH ARRIVAL

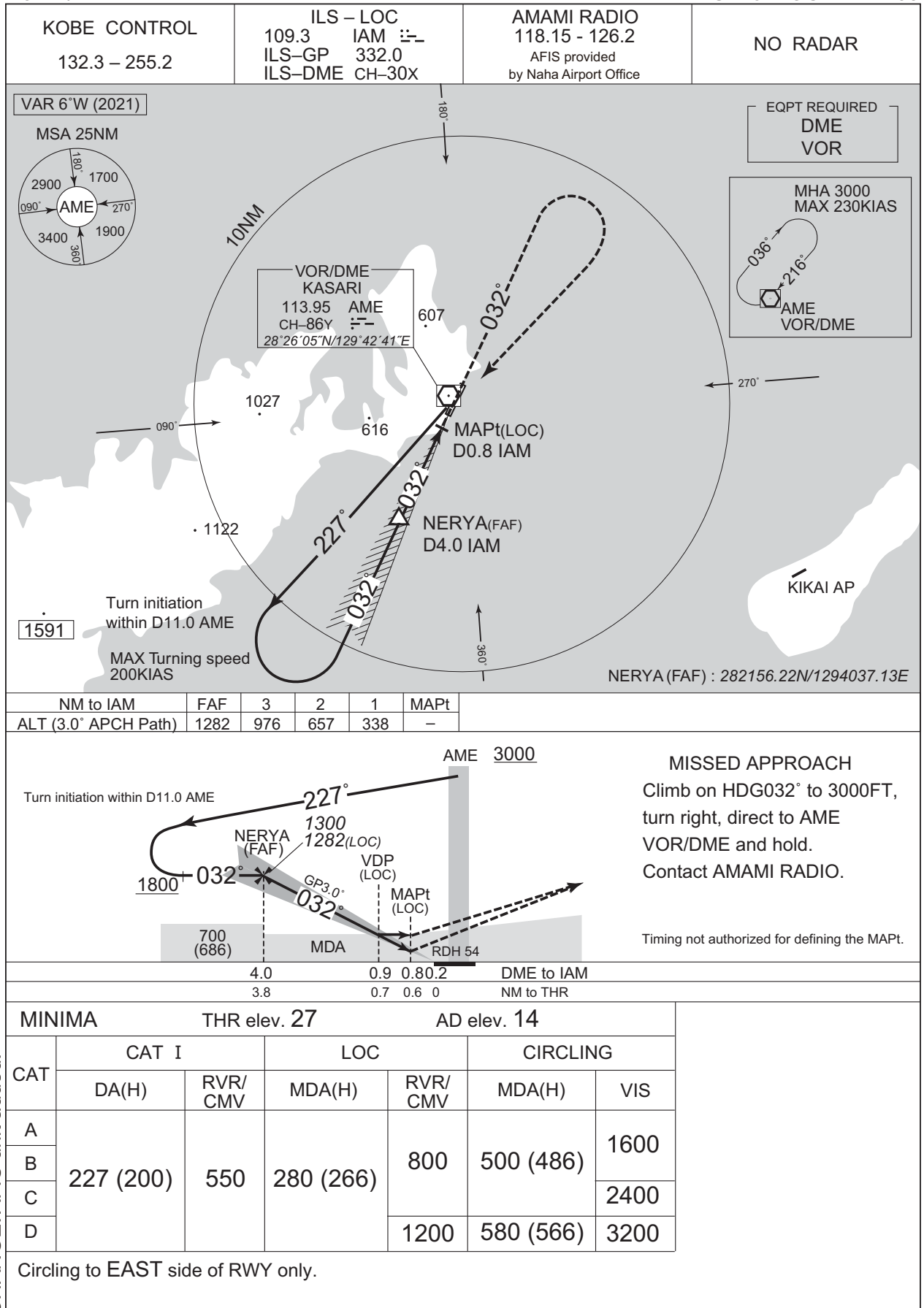
From YUWAN, to KYORA at or above 3500FT.

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	YUWAN	—	—	-5.4	—	—	—	—	—	Basic RNP1
002	TF	KYORA	—	031 (025.6)	-5.4	29.8	—	+3500	—	—	Basic RNP1

INSTRUMENT APPROACH CHART

RJKA / AMAMI

ILS Z or LOC Z RWY03

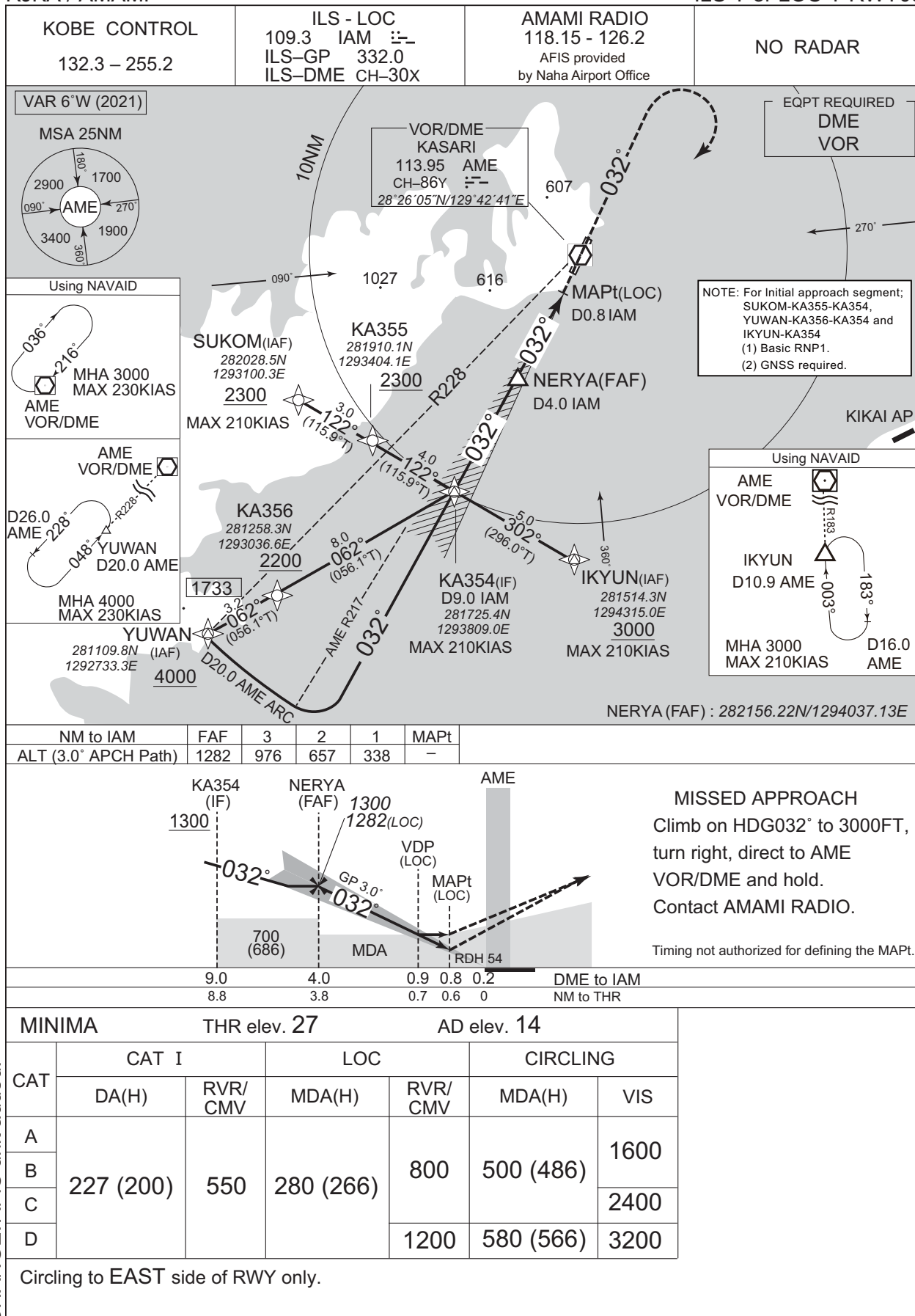


CHANGE: AFIS unit added.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

ILS Y or LOC Y RWY03

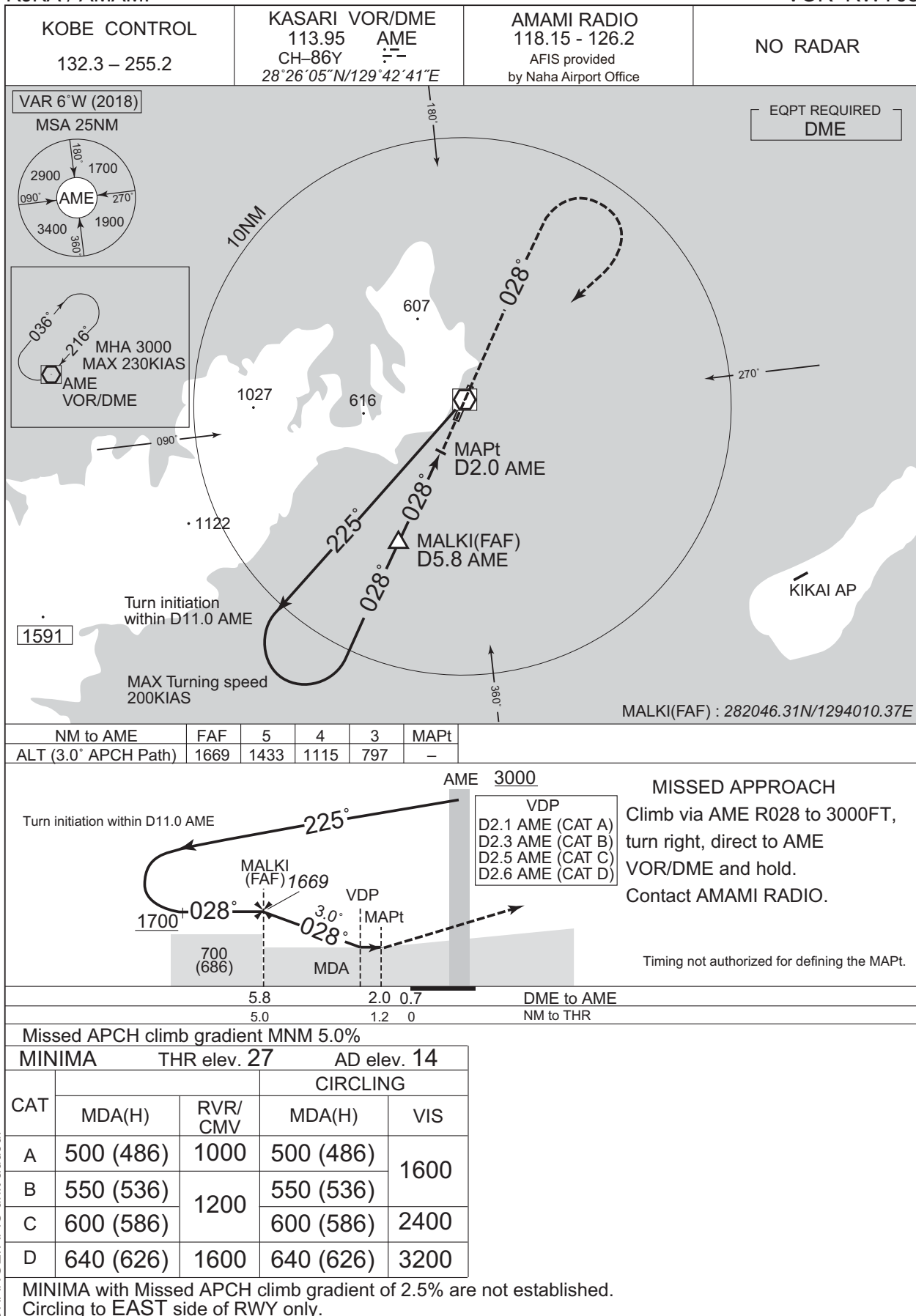


CHANGE: AFIS unit added.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

VOR RWY03

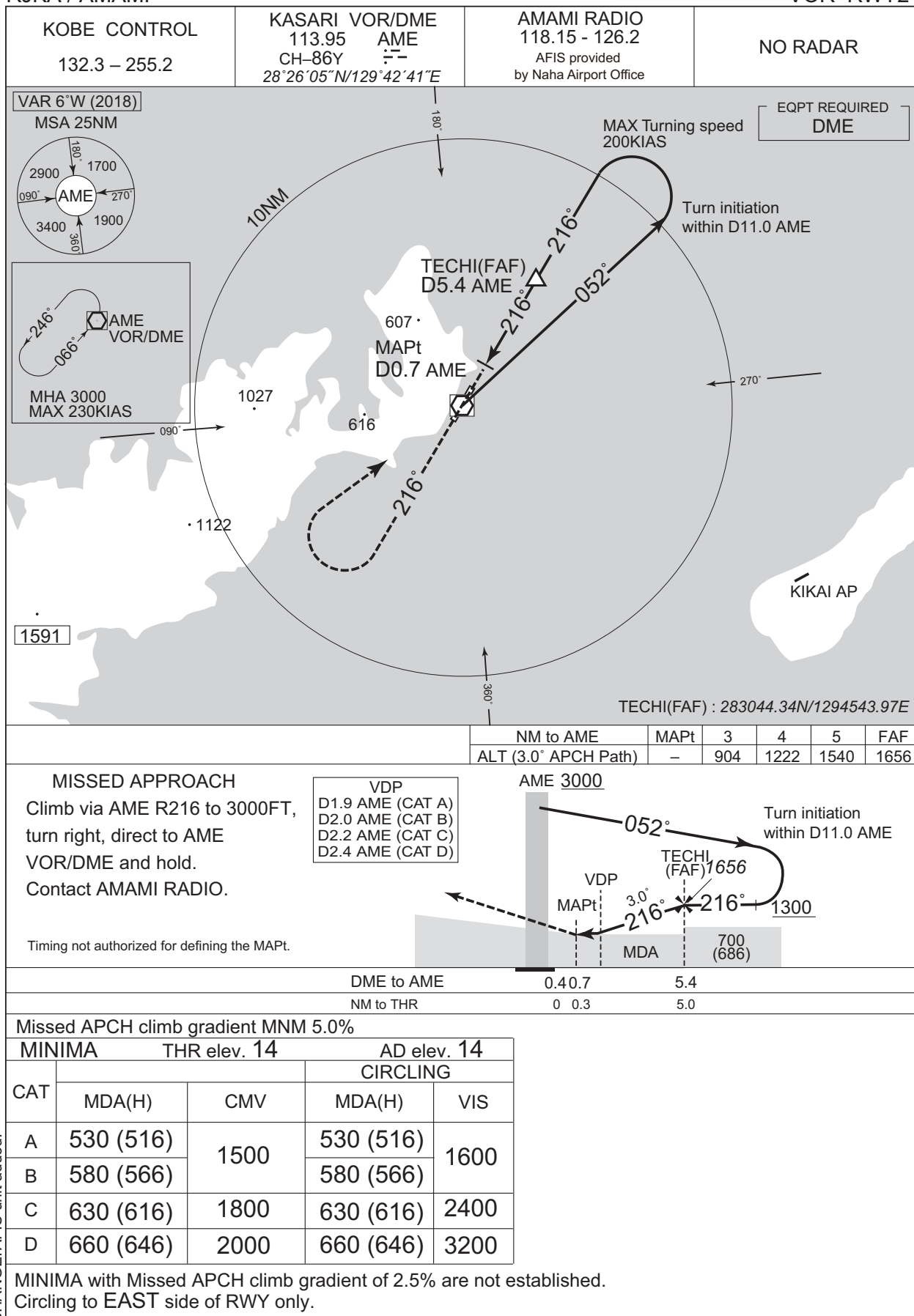


CHANGE: AFIS unit added.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

VOR RWY21

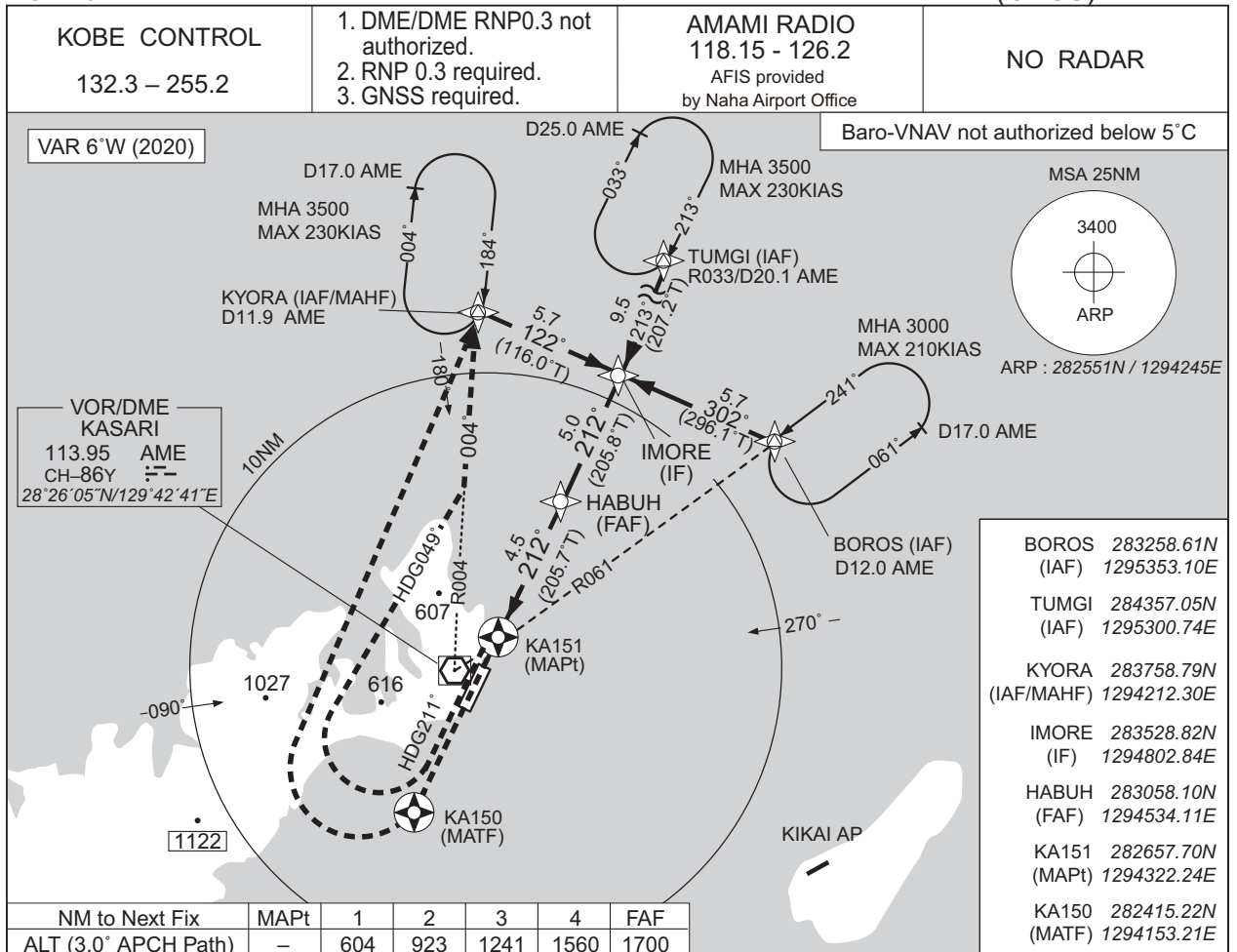


CHANGE: AFIS unit added.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

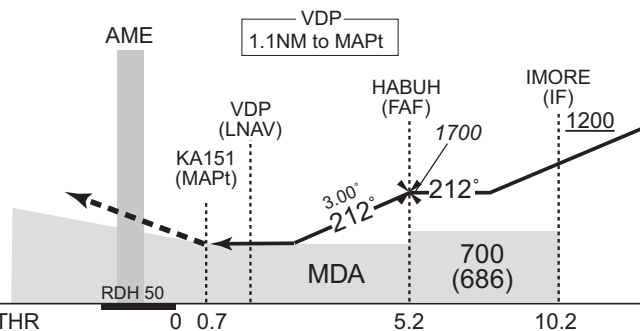
RNAV(GNSS) Z RWY21



MISSED APPROACH

Climb to KA150, turn right, direct to KYORA and hold at 3500FT.
Contact AMAMI RADIO.

(For using VOR/DME)
Climb on HDG211° to 900FT, turn right HDG049° to intercept and proceed via AME R004 to KYORA and hold at 3500FT.
Contact AMAMI RADIO.



Missed APCH climb gradient MNM 5.0%

CAT	MINIMA		THR elev. 14		AD elev. 14	
	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	600 (586)	1500	600 (586)	1500	600 (586)	1600
B		1800		1800		2400
C		2000		2000		3200
D						

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

CHANGE: AFIS unit added.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNAV(RNP) RWY03

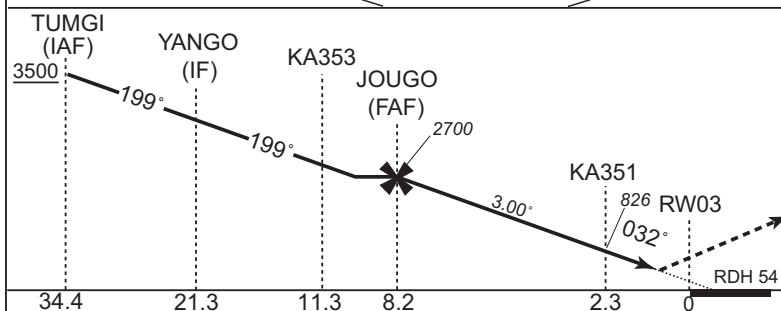
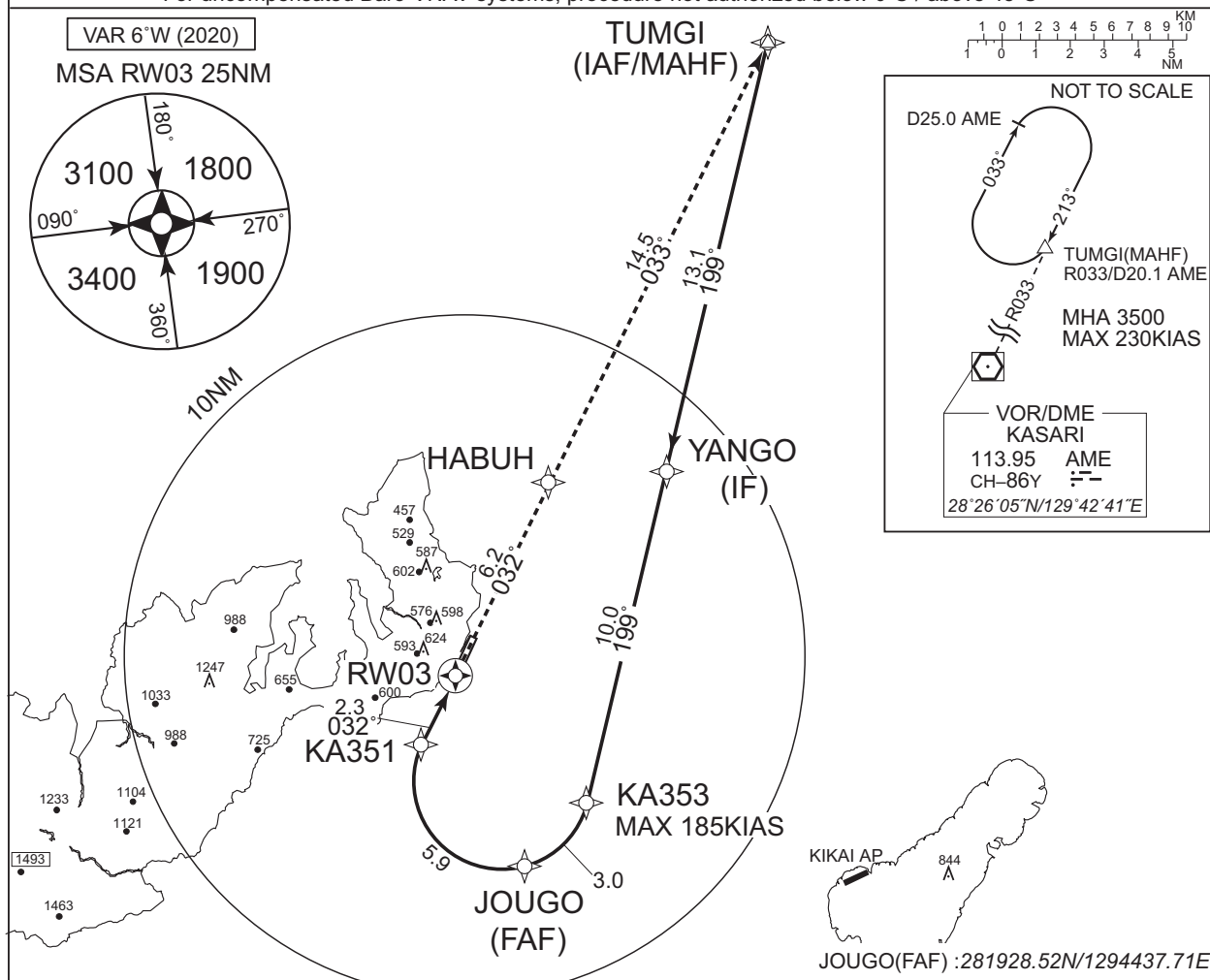
KOBE CONTROL
132.3 – 255.2

GNSS and RF required

AMAMI RADIO
118.15 - 126.2
AFIS provided
by Naha Airport Office

NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C



MISSED APPROACH

Climb to 3500FT, to HABUH,
to TUMGI and hold.
Contact AMAMI RADIO.

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 27 AD elev. 14

CAT	RNP 0.13		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	—	—	—	—
B	—	—	—	—
C	327(300)	1000	554(527)	1200
D	—	1400	—	1600

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

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNAV(RNP) RWY03

RNAV(RNP) RWY03Coding 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	TUMGI	—	—	-6.1	—	—	+3500	—	—	—
002	TF	YANGO	—	199 (193.3)	-6.1	13.1	—	—	—	—	1.0
003	TF	KA353	—	199 (193.3)	-6.1	10.0	—	+2700	-185	—	1.0
004	RF Center: KARF1 r=2.65NM	JOUGO	—	—	-6.1	3.0	R	2700	—	—	1.0
005	RF Center: KARF1 r=2.65NM	KA351	—	—	-6.1	5.9	R	826	—	-3.00	0.13 0.30
006	TF	RW03	Y	032 (025.7)	-6.1	2.3	—	81	—	-3.00/54	0.13 0.30
007	TF	HABUH	—	032 (025.7)	-6.1	6.2	—	—	—	—	1.0
008	TF	TUMGI	—	033 (026.7)	-6.1	14.5	—	3500	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
TUMGI	284357.05N/1295300.74E	KARF1	282205.14N/1294402.59E
YANGO	283113.92N/1294935.29E		
KA353	282128.37N/1294658.25E		
JOUGO	281928.52N/1294437.71E		
KA351	282314.74N/1294120.10E		
RW03	282521.39N/1294229.46E		
HABUH	283058.10N/1294534.11E		

CHANGE : VAR. PROC renamed. Course FM HABUH to TUMGI.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNAV(RNP) X RWY21

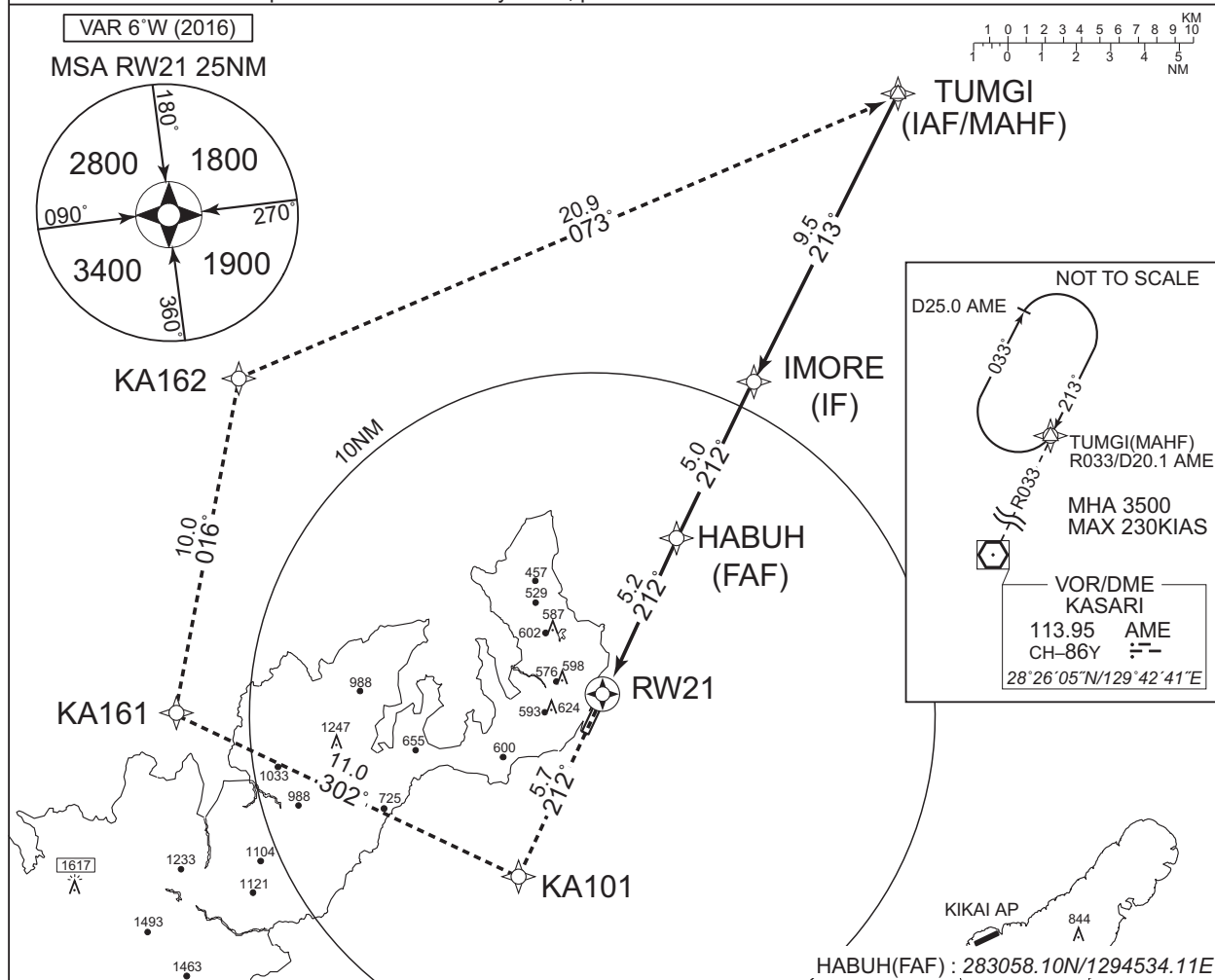
KOBE CONTROL
132.3 – 255.2

GNSS required

AMAMI RADIO
118.15 - 126.2
AFIS provided
by Naha Airport Office

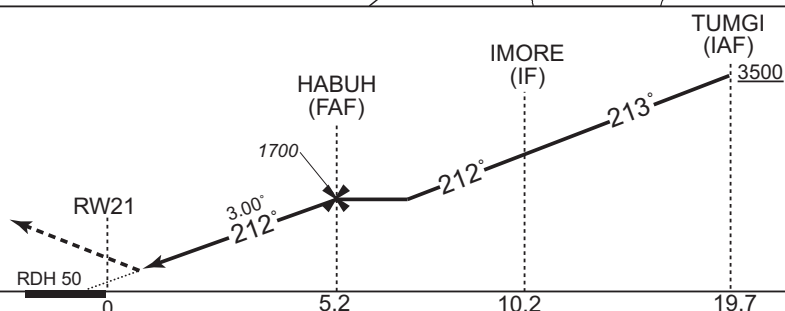
NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C/ above 45°C



MISSED APPROACH

Climb to 3500FT, to KA101,
to KA161, to KA162, to
TUMGI and hold.
Contact AMAMI RADIO.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 14 AD elev. 14

CAT	RNP 0.14		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	—	—	—	—
B	—	—	—	—
C	325(311)	1600	528(514)	1800
D		1800		2000

RNP AR
Special Authorization Required

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

CHANGE: AFIS unit added.

INSTRUMENT APPROACH CHART

RJKA / AMAMI

RNAV(RNP) X RWY21

RNAV(RNP) X RWY21Coding 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	TUMGI	—	—	-5.8	—	—	+3500	—	—	—
002	TF	IMORE	—	213 (207.2)	-5.8	9.5	—	—	—	—	1.0
003	TF	HABUH	—	212 (205.8)	-5.8	5.0	—	1700	—	—	1.0
004	TF	RW21	Y	212 (205.7)	-5.8	5.2	—	64	—	-3.00/50	0.14 0.30
005	TF	KA101	—	212 (205.7)	-5.8	5.7	—	—	—	—	1.0
006	TF	KA161	—	302 (295.9)	-5.8	11.0	—	—	—	—	1.0
007	TF	KA162	—	016 (010.7)	-5.8	10.0	—	—	—	—	1.0
008	TF	TUMGI	—	073 (067.1)	-5.8	20.9	—	3500	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
TUMGI	284357.05N/1295300.74E
IMORE	283528.82N/1294802.84E
HABUH	283058.10N/1294534.11E
RW21	282619.79N/1294301.46E
KA101	282112.20N/1294013.10E
KA161	282600.04N/1292858.96E
KA162	283551.31N/1293105.90E

RJKA / AMAMI

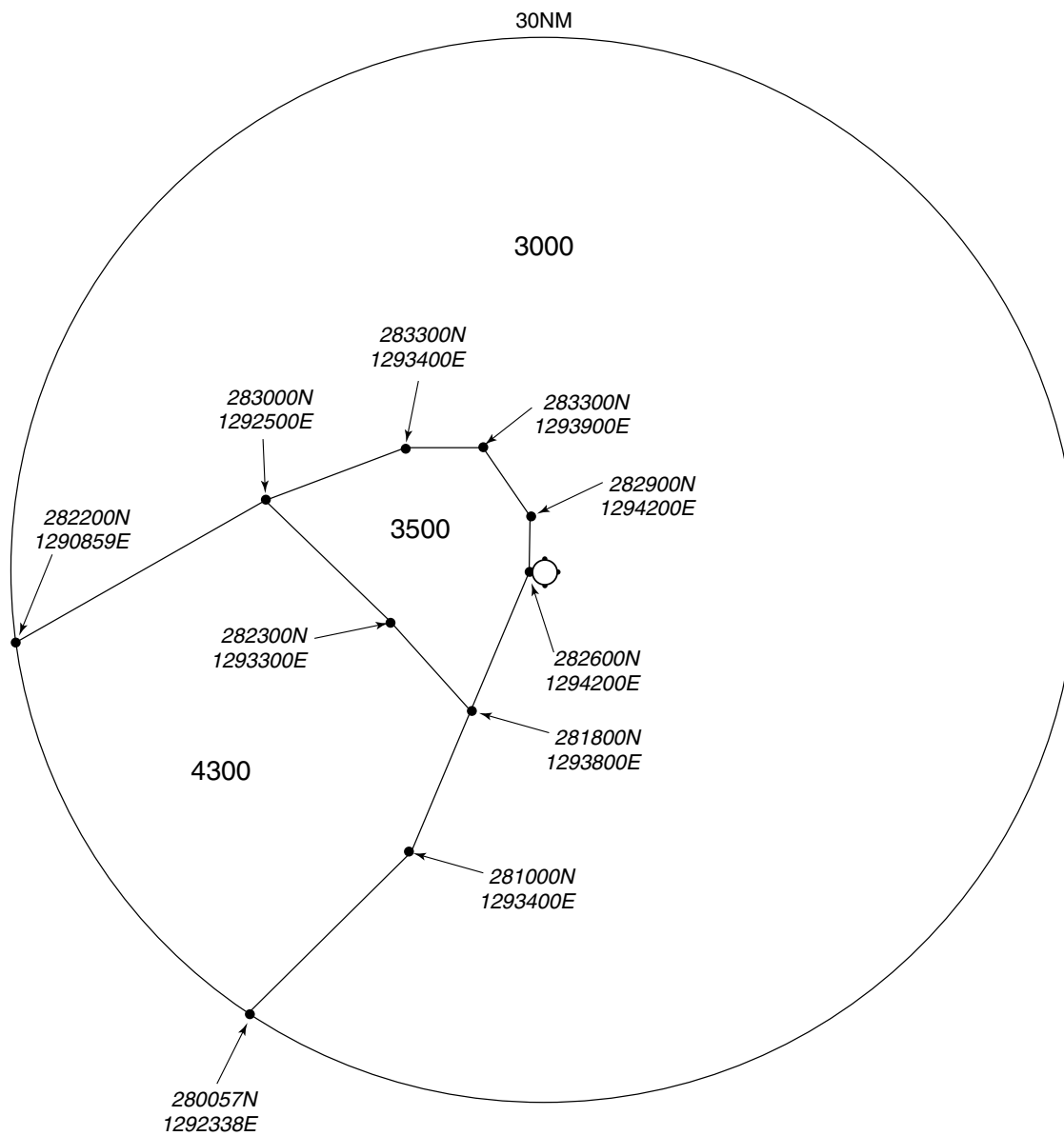
Visual REP



Call sign	BRG / DIST from ARP	Remarks
10NM NE	045°/10.0NM	海上 Over the sea
10NM NW	315°/10.0NM	海上 Over the sea
笠 利 崎 Kasarizaki	354°/ 6.2NM	灯台 Lighthouse
仲 干 瀬 崎 Nakahosezaki	235°/11.3NM	岬 Cape
名 瀬 Naze	262°/11.9NM	港 Harbor

RJKA / AMAMI

Minimum Vectoring Altitude CHART



CENTER : 282551N/1294245E (ARP)