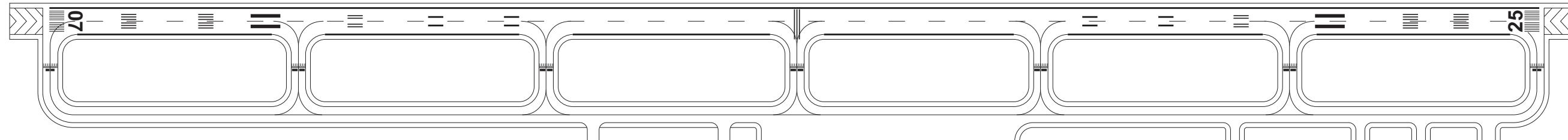
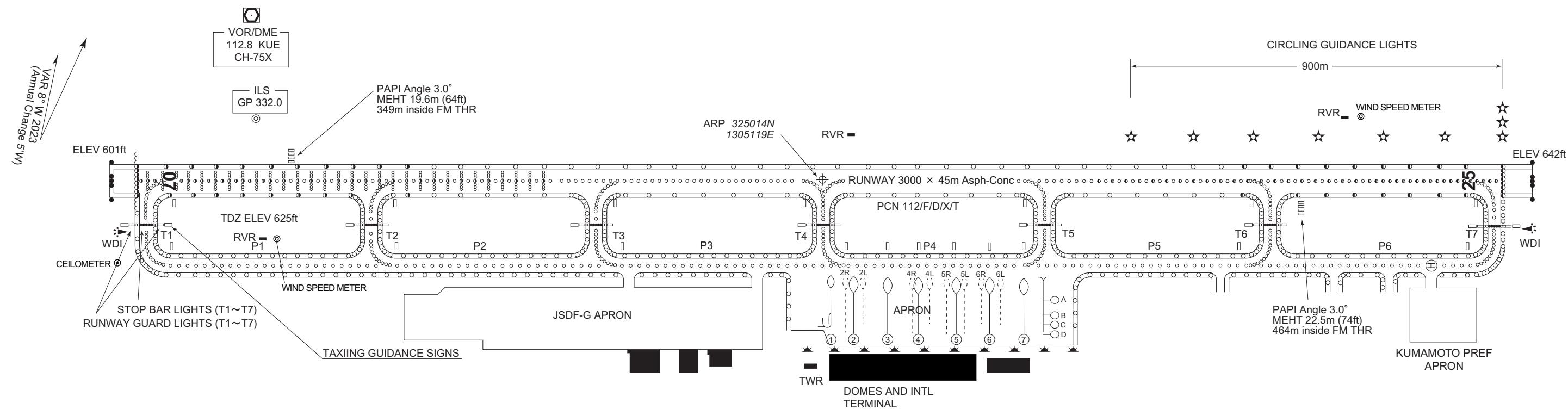


AERODROME CHART

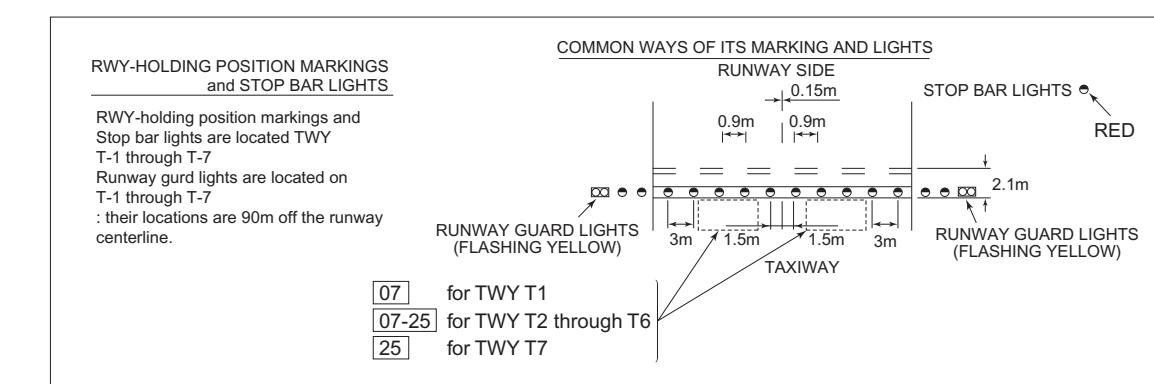
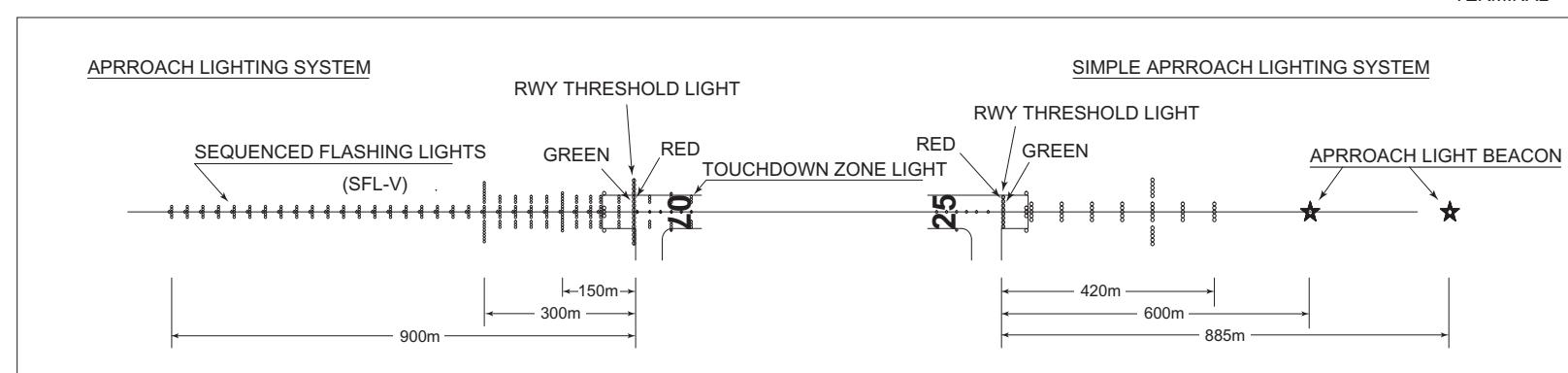
KUMAMOTO AIRPORT  
ELEV 192.7m(632ft)

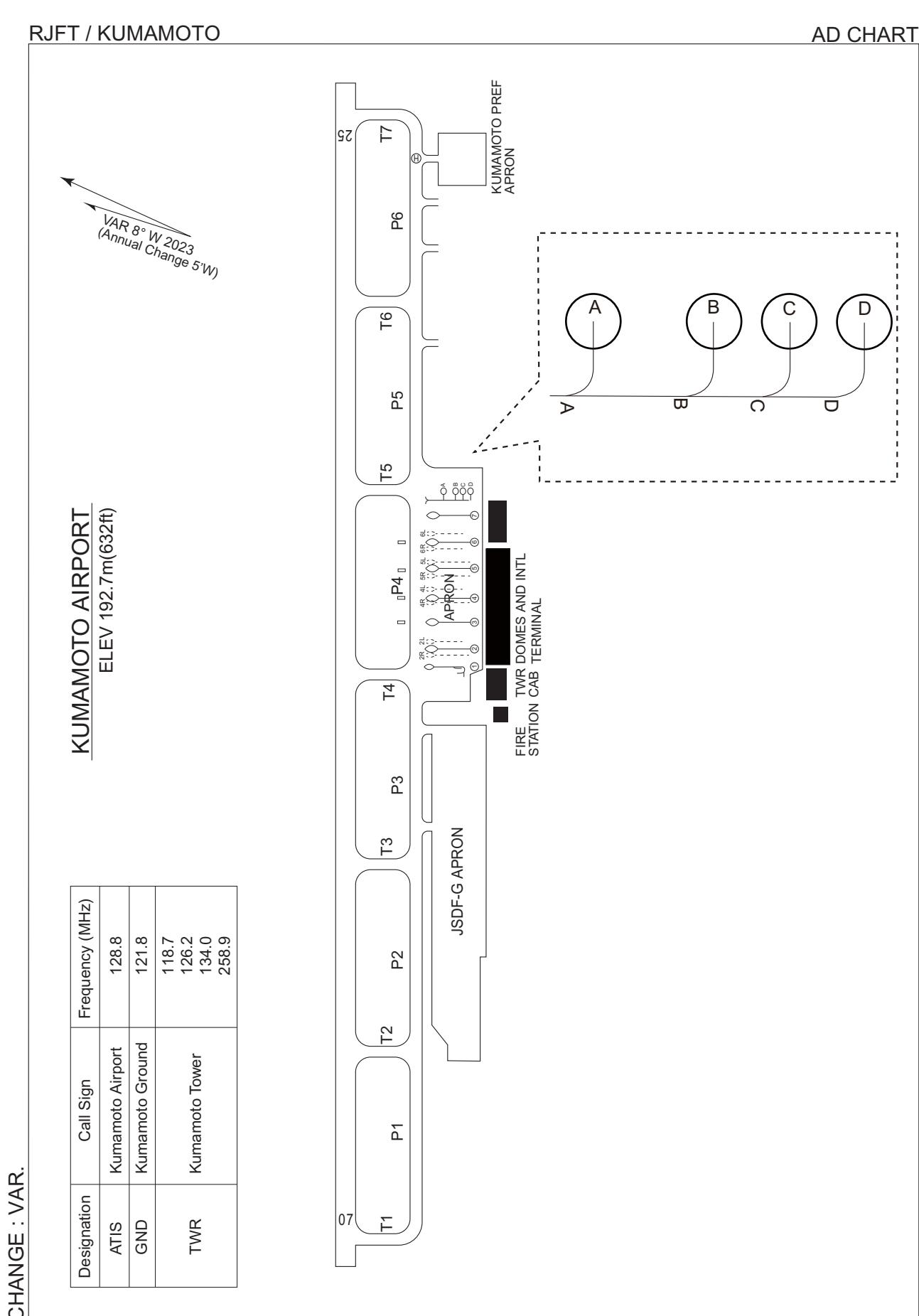


MARKING AIDS



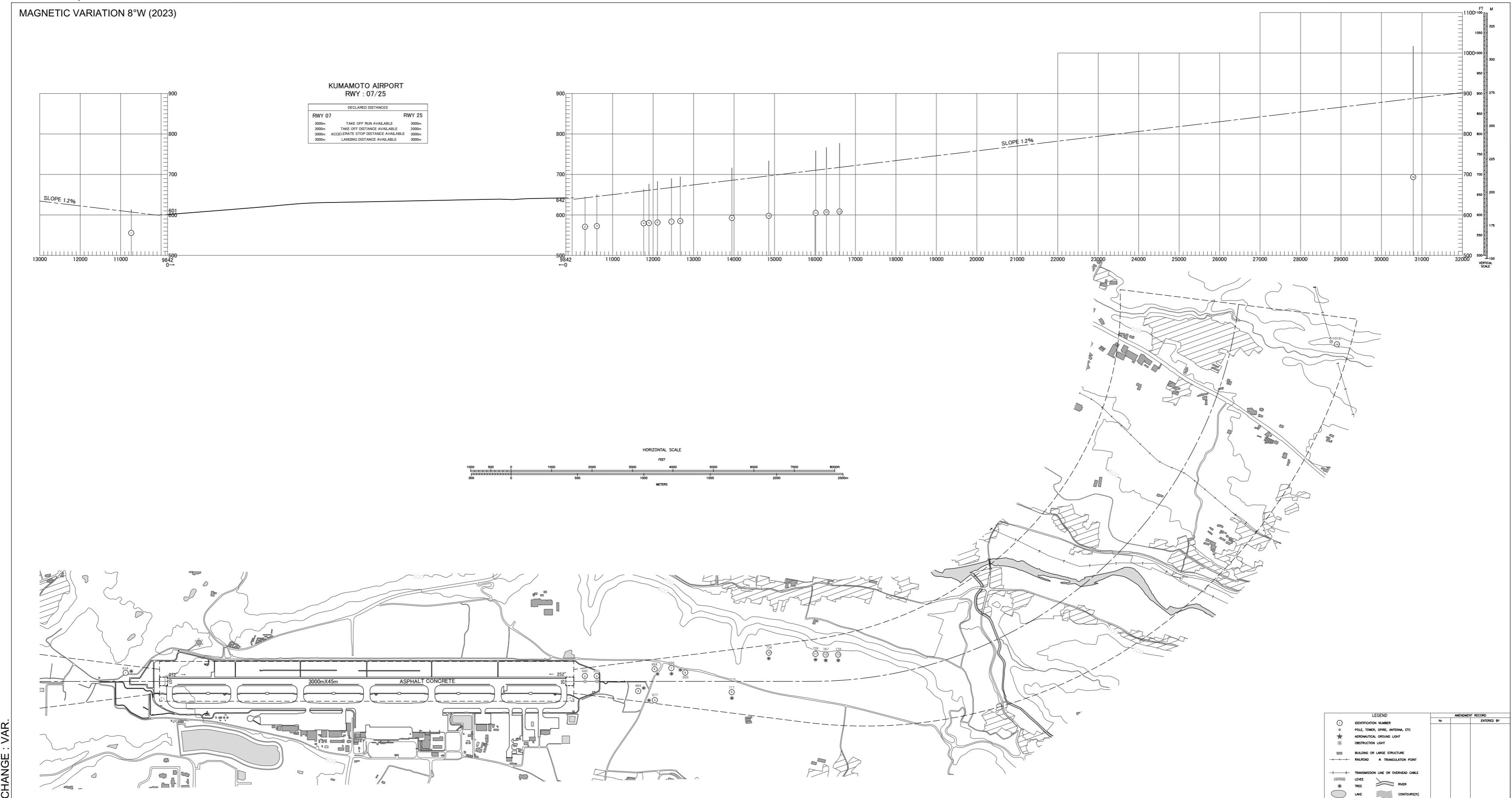
CHANGE : VAR.





DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

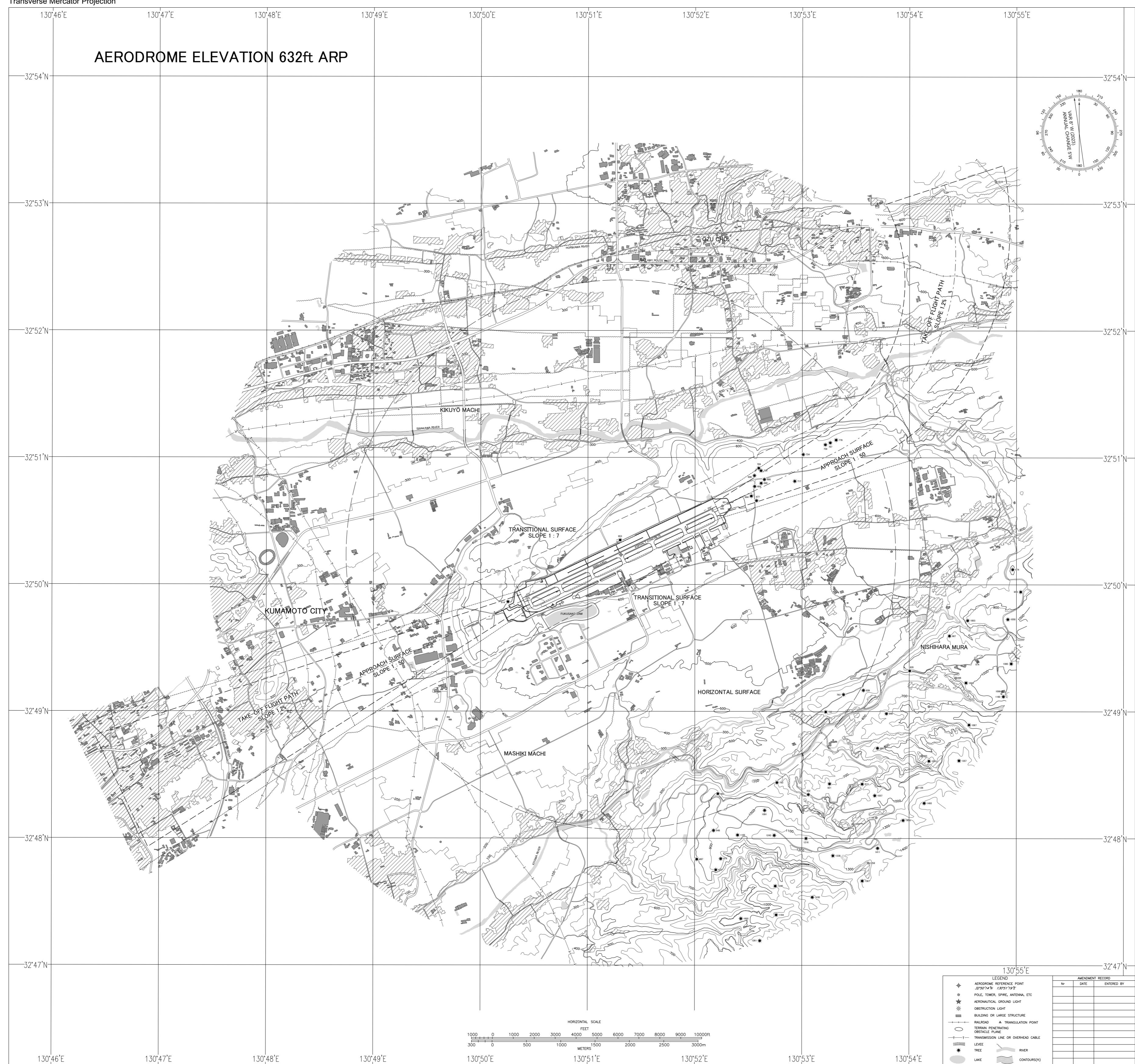
AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



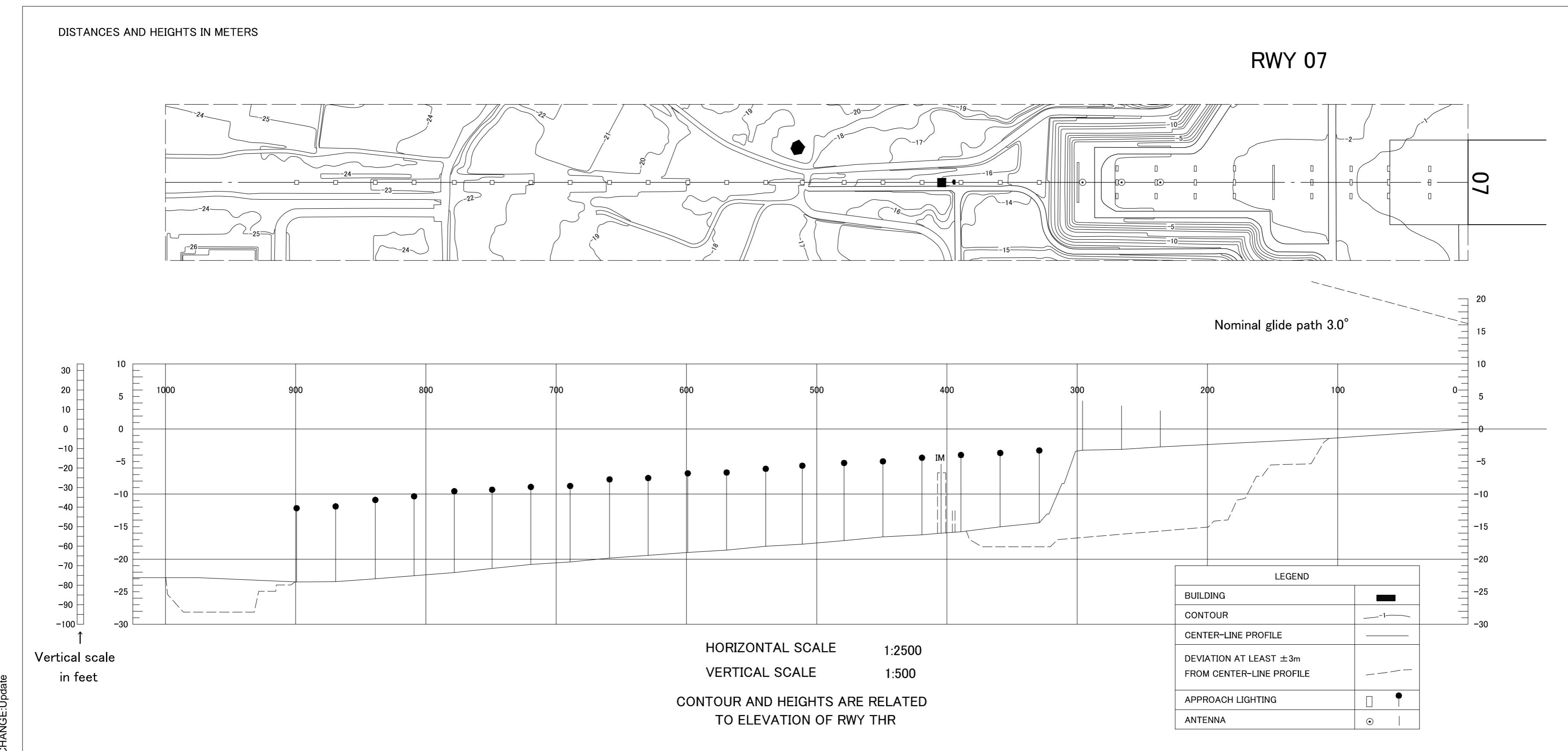
# AERODROME OBSTACLE CHART-ICAO TYPE B

**DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC**  
Transverse Mercator Projection

## AERODROME ELEVATION 632ft ARP



## PRECISION APPROACH TERRAIN CHART-ICAO



STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

SID and TRANSITION

KUMAMOTO REVERSAL SEVEN DEPARTURE

RWY25 : Climb via KUE R251 to 3.0DME, turn left,...  
RWY07 : Turn left, proceed direct to KUE VOR/DME,...  
...climb via KUE R206 to RINDO, turn left to intercept and proceed via KUE R186 to KUE VOR/DME.  
Cross RINDO at or above 7000FT, cross KUE R186/8.0DME at or above FL140.

Note RWY07 : 5.7% climb gradient required up to 2700FT.  
OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

RINDO FIVE DEPARTURE

RWY25 : Climb via KUE R251 to 3.0DME, turn left,...  
RWY07 : Turn left, proceed direct to KUE VOR/DME,...  
...climb via KUE R206 to RINDO.  
Cross RINDO at or above 7000FT.

Note RWY07 : 5.7% climb gradient required up to 2700FT.  
OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

MIYAZAKI TRANSITION

From over RINDO, turn left, proceed via KUE 25.0DME counterclockwise ARC to intercept and proceed via KUE R159/MZE R339 (MRA 8000FT) to MZE VOR/DME.

KAGOSHIMA TRANSITION

From over RINDO, turn left, proceed via HKC 45.0DME clockwise ARC to intercept and proceed via HKC R038 (MRA 9000FT) to HKC VORTAC.

MUSASHI TRANSITION

From over RINDO, turn left, proceed via KUE 25.0DME counterclockwise ARC to intercept and proceed via TFE R211 (MRA FL150) to TFE VOR/DME.

HINAG FOUR DEPARTURE

RWY25 : Climb via KUE R251 to 3.0DME, turn left,...  
RWY07 : Turn left, proceed direct to KUE VOR/DME,...  
...climb via KUE R219 to HINAG.  
Cross HINAG at or above 8000FT.

Note RWY07 : 5.7% climb gradient required up to 2700FT.  
OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.

CHANGE : KAGOSHIMA TRANSITION.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

## SID and TRANSITION

**CHANGE : KAGOSHIMA TRANSITION.**

**VORTAC KAGOSHIMA**  
113.3 HKC  
CH-80X  $\text{---}$   
31°41'50"N/130°34'59"E  
1900FT

**KAGOSHIMA TRANSITION**

**HINAG FOUR DEPARTURE**

**HINAG D31.1 KUE 8000**

**RINDO FIVE DEPARTURE**

**R251/D3.0 KUE**

**RINDO D20.0 KUE 7000**

**006**

**219°**

**206**

**D25.0 KUE ARC**

**D45.0 HKC ARC**

**KUMAMOTO REVERSAL SEVEN DEPARTURE**

**R186/D8.0 KUE FL140**

**VOR/DME KUMAMOTO**  
112.8 KUE  
CH-75X  $\text{---}$   
32°50'05"N/130°50'29"E  
700FT

**MUSASHI TRANSITION**

**VOR/DME MUSASHI**  
117.7 TFE  
CH-124X  $\text{---}$   
33°29'23"N/131°43'44"E  
100FT

**031°**

**TFE MRA FL150**

**KUE MRA 8000**

**HKC MRA 9000**

**159°**

**MIYAZAKI TRANSITION**

**VOR/DME MIYAZAKI**  
112.4 MZE  
CH-71X  $\text{---}$   
31°52'43"N/131°26'15"E  
100FT

**218°**

STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

SID

IRUKA TWO DEPARTURE

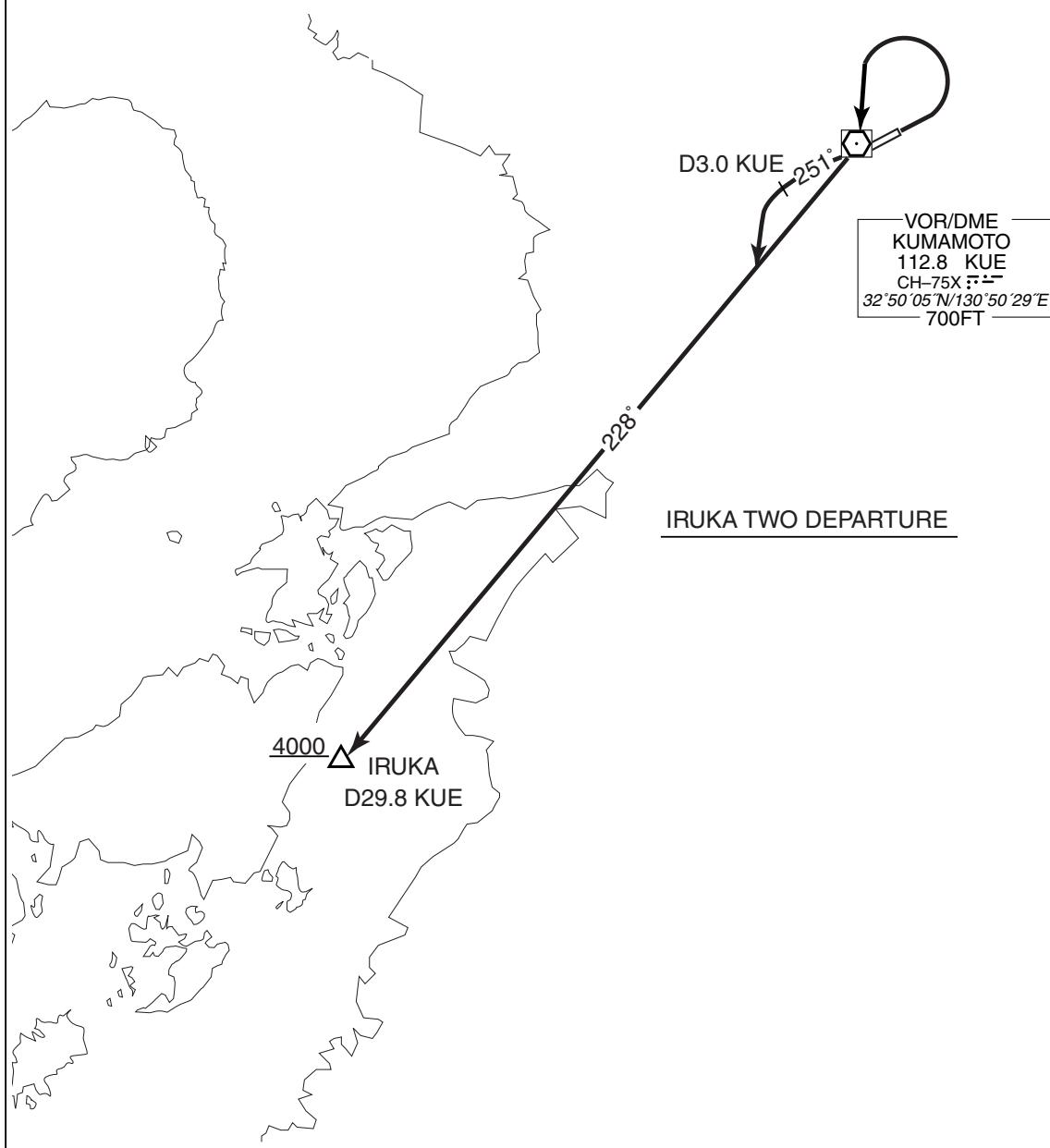
RWY07 : Turn left, direct to KUE VOR/DME,...

RWY25 : Climb via KUE R251 to 3.0DME, turn left,...  
...climb via KUE R228 to IRUKA.

Cross IRUKA at or above 4000FT.

Note RWY07 : 5.7% climb gradient required up to 2700FT.

OBST ALT 2362FT located at 6.0NM 034° FM end of RWY07.





## STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO											RNAV SID and TRANSITION		
MIFNE ONE DEPARTURE													
RWY07													
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	—	—	072 (064.5)	-7.6	—	—	+1100	—	—	RNAV1		
002	DF	FT700	—	—	-7.6	—	L	—	—	—	RNAV1		
003	TF	FT701	—	252 (244.4)	-7.6	3.7	—	—	—	—	RNAV1		
004	TF	MIFNE	—	183 (175.5)	-7.6	14.7	—	+4000	—	—	RNAV1		
RWY25													
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	—	—	252 (244.5)	-7.6	—	—	+1100	—	—	RNAV1		
002	DF	FT500	Y	—	-7.6	—	—	—	—	—	RNAV1		
003	DF	MIFNE	—	—	-7.6	—	L	+4000	—	—	RNAV1		
DONAR 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	MIFNE	—	—	-7.6	—	—	+4000	—	—	RNAV1		
002	TF	GOKAH	—	117 (109.2)	-7.6	7.4	—	—	—	—	RNAV1		
003	TF	IWATO	—	085 (077.7)	-7.6	8.2	—	—	—	—	RNAV1		
004	TF	DONAR	—	066 (058.4)	-7.6	84.1	—	—	—	—	RNAV1		
MATSUYAMA 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	MIFNE	—	—	-7.6	—	—	+4000	—	—	RNAV1		
002	TF	GOKAH	—	117 (109.2)	-7.6	7.4	—	—	—	—	RNAV1		
003	TF	IWATO	—	085 (077.7)	-7.6	8.2	—	—	—	—	RNAV1		
004	TF	DONAR	—	066 (058.4)	-7.6	84.1	—	—	—	—	RNAV1		
005	TF	MYE	—	027 (019.8)	-7.6	30.6	—	—	—	—	RNAV1		
KIRISHIMA 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	MIFNE	—	—	-7.6	—	—	+4000	—	—	RNAV1		
002	TF	HKC	—	197 (189.1)	-7.6	57.2	—	—	—	—	RNAV1		
NICHINAN 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	MIFNE	—	—	-7.6	—	—	+4000	—	—	RNAV1		
002	TF	MZE	—	150 (142.8)	-7.6	57.1	—	—	—	—	RNAV1		

CHANGE : VAR. PROC course.

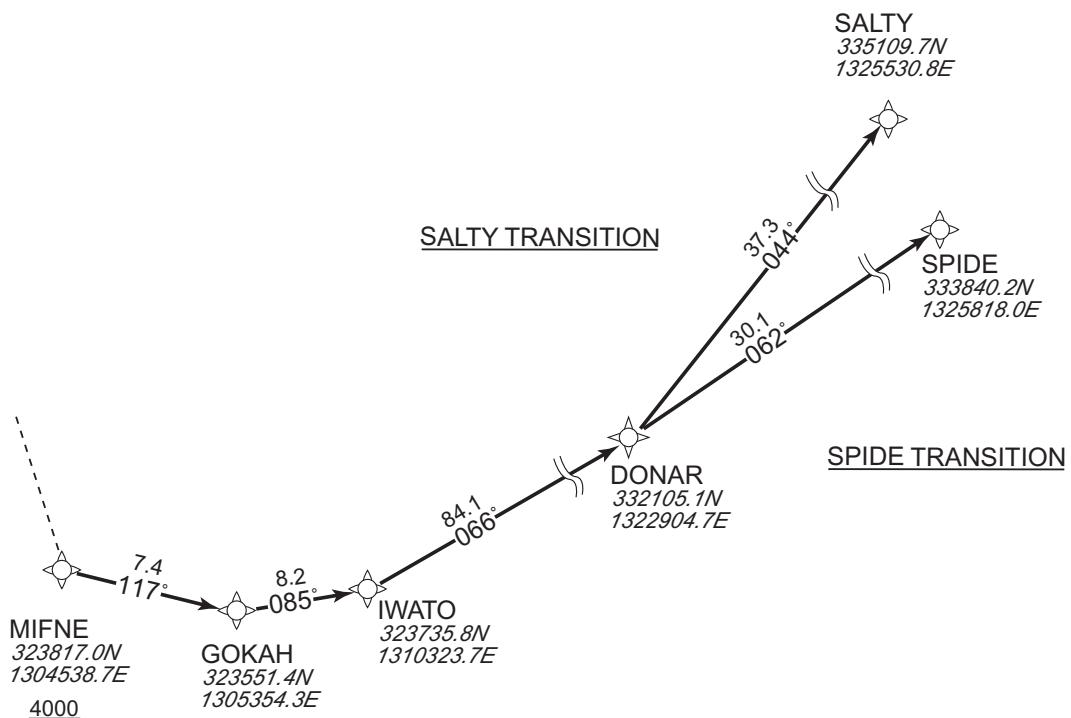
## STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV TRANSITION

SPIDE TRANSITION / SALTY TRANSITION		RNAV 1
Note 1 ) DME/DME/IRU or GNSS required 2 ) RADAR service required	Critical DME	—
	DME GAP	—
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8° W



CHANGE : VAR. PROC course.

SPIDE TRANSITION

From MIFNE at or above 4000FT, to GOKAH, to IWATO, to DONAR, to SPIDE.

SALTY TRANSITION

From MIFNE at or above 4000FT, to GOKAH, to IWATO, to DONAR, to SALTY.

STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV TRANSITION

SPIDE 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	MIFNE	—	—	-7.6	—	—	+4000	—	—	RNAV1	
002	TF	GOKAH	—	117 (109.2)	-7.6	7.4	—	—	—	—	RNAV1	
003	TF	IWATO	—	085 (077.7)	-7.6	8.2	—	—	—	—	RNAV1	
004	TF	DONAR	—	066 (058.4)	-7.6	84.1	—	—	—	—	RNAV1	
005	TF	SPIDE	—	062 (054.1)	-7.6	30.1	—	—	—	—	RNAV1	

SALTY 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	MIFNE	—	—	-7.6	—	—	+4000	—	—	RNAV1
002	TF	GOKAH	—	117 (109.2)	-7.6	7.4	—	—	—	—	RNAV1
003	TF	IWATO	—	085 (077.7)	-7.6	8.2	—	—	—	—	RNAV1
004	TF	DONAR	—	066 (058.4)	-7.6	84.1	—	—	—	—	RNAV1
005	TF	SALTY	—	044 (036.1)	-7.6	37.3	—	—	—	—	RNAV1

CHANGE : VAR. PROC course.

STANDARD ARRIVAL CHART-INSTRUMENT

RJFT / KUMAMOTO

STAR

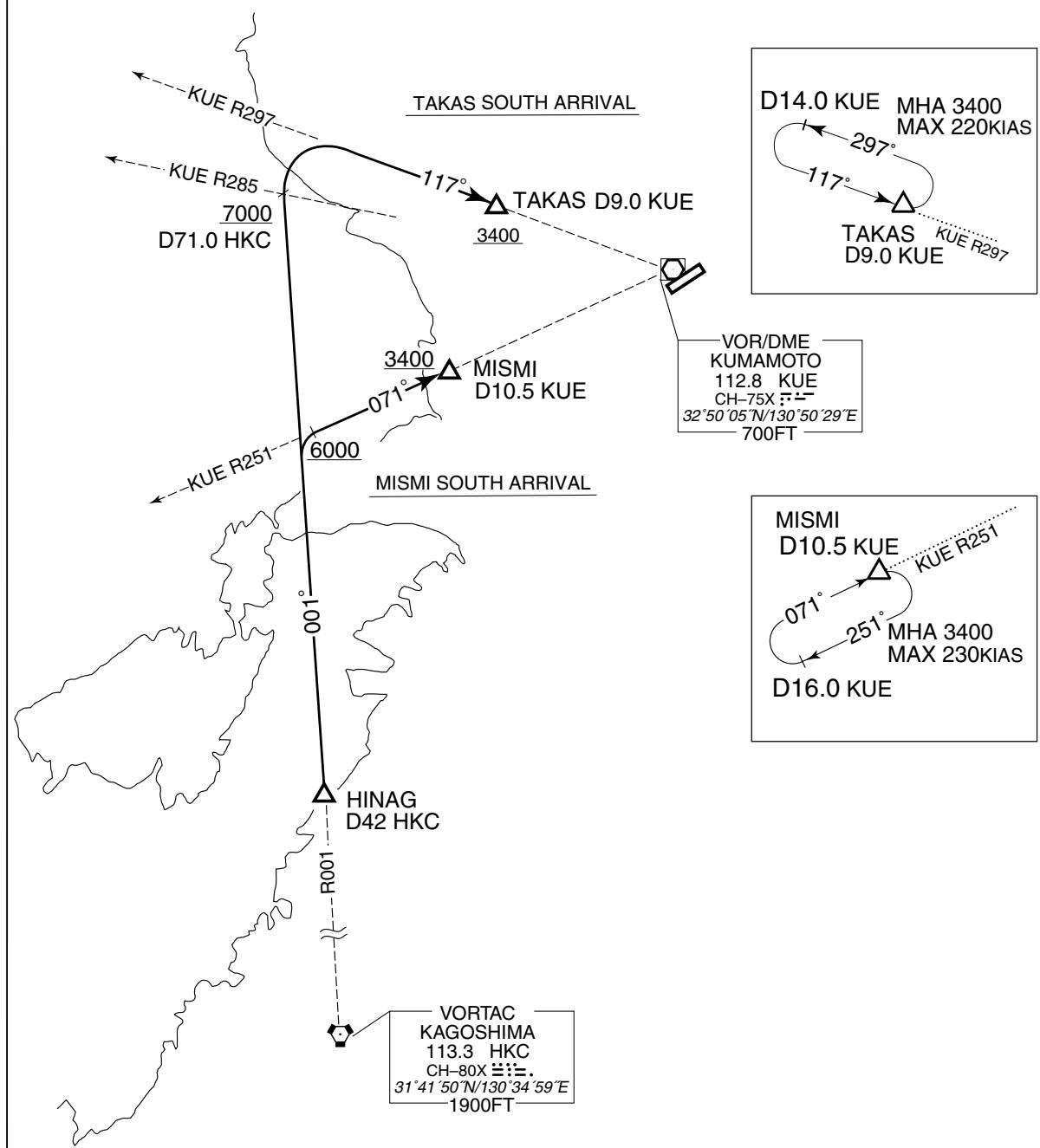
MISMI SOUTH ARRIVAL

From over HINAG, proceed via HKC R001 to intercept and proceed via KUE R251 to MISMI. Maintain 6000FT or above until intercepting KUE R251, cross MISMI at or above 3400FT.

TAKAS SOUTH ARRIVAL

From over HINAG, proceed via HKC R001 until HKC 71.0DME (KUE R285), turn right to intercept and proceed via KUE R297 to TAKAS.

Cross HKC R001/71.0DME(KUE R285) at or above 7000FT, cross TAKAS at or above 3400FT.



## STANDARD ARRIVAL CHART-INSTRUMENT

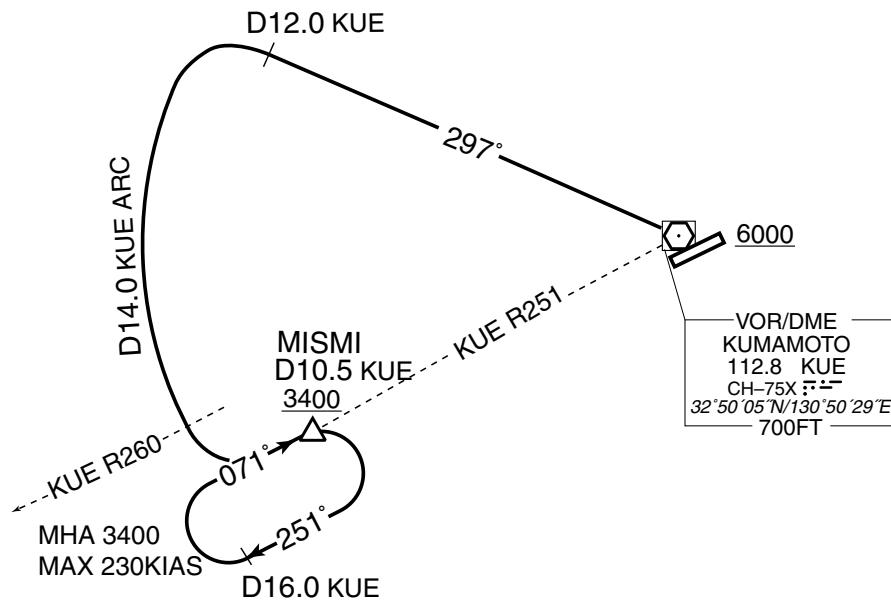
RJFT / KUMAMOTO

STAR

MISMI EAST ARRIVAL

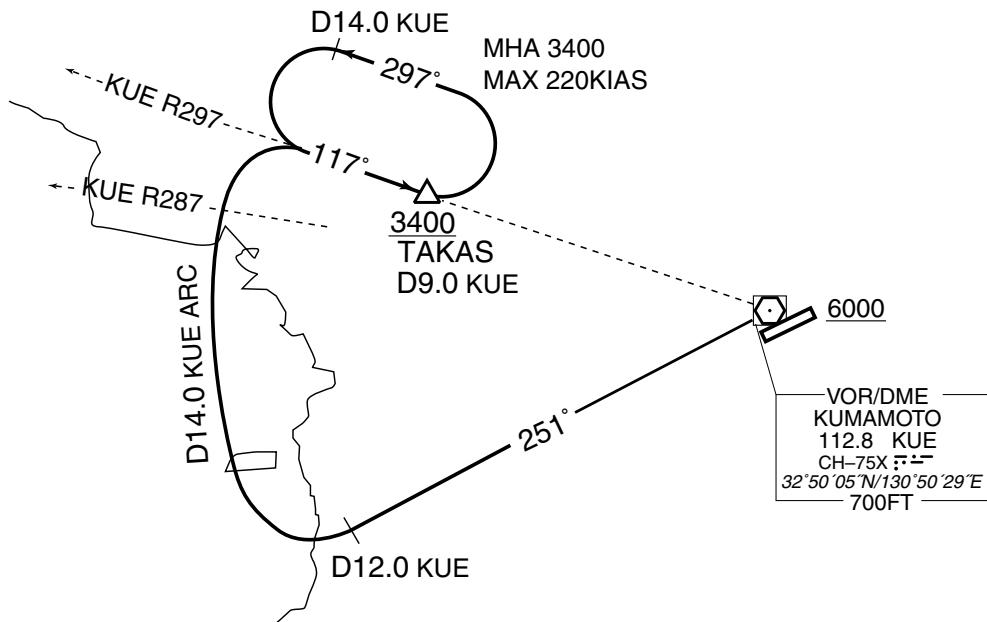
From over KUE VOR/DME, proceed via KUE R297 to KUE 12.0DME, turn left, proceed via KUE 14.0DME counterclockwise ARC to intercept and proceed via KUE R251 to MISMI.

Cross KUE VOR/DME at or above 6000FT, cross MISMI at or above 3400FT.

TAKAS EAST ARRIVAL

From over KUE VOR/DME, proceed via KUE R251 to KUE 12.0DME, turn right, proceed via KUE 14.0DME clockwise ARC to intercept and proceed via KUE R297 to TAKAS.

Cross KUE VOR/DME at or above 6000FT, cross TAKAS at or above 3400FT.



STANDARD ARRIVAL CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV STAR RWY07

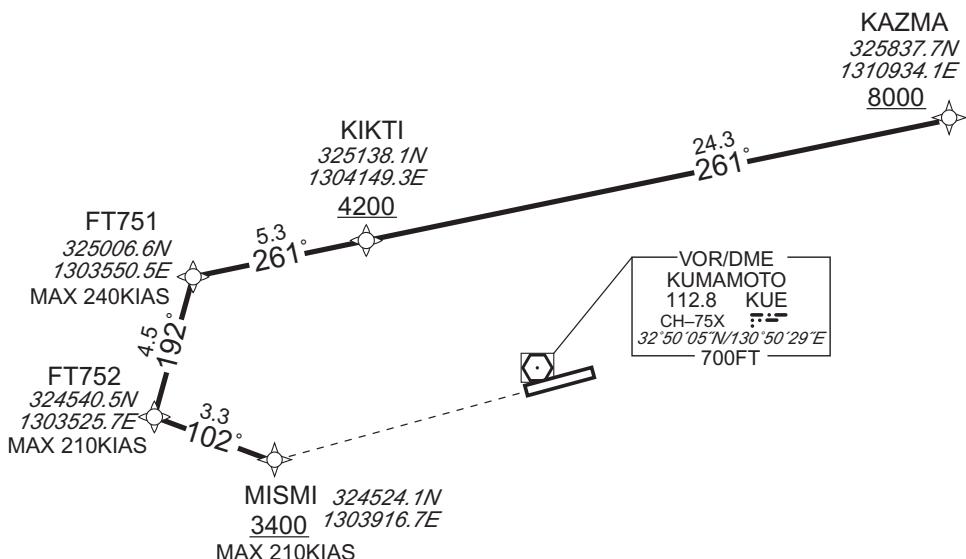
KAZMA ARRIVAL

RNAV1

Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8°W



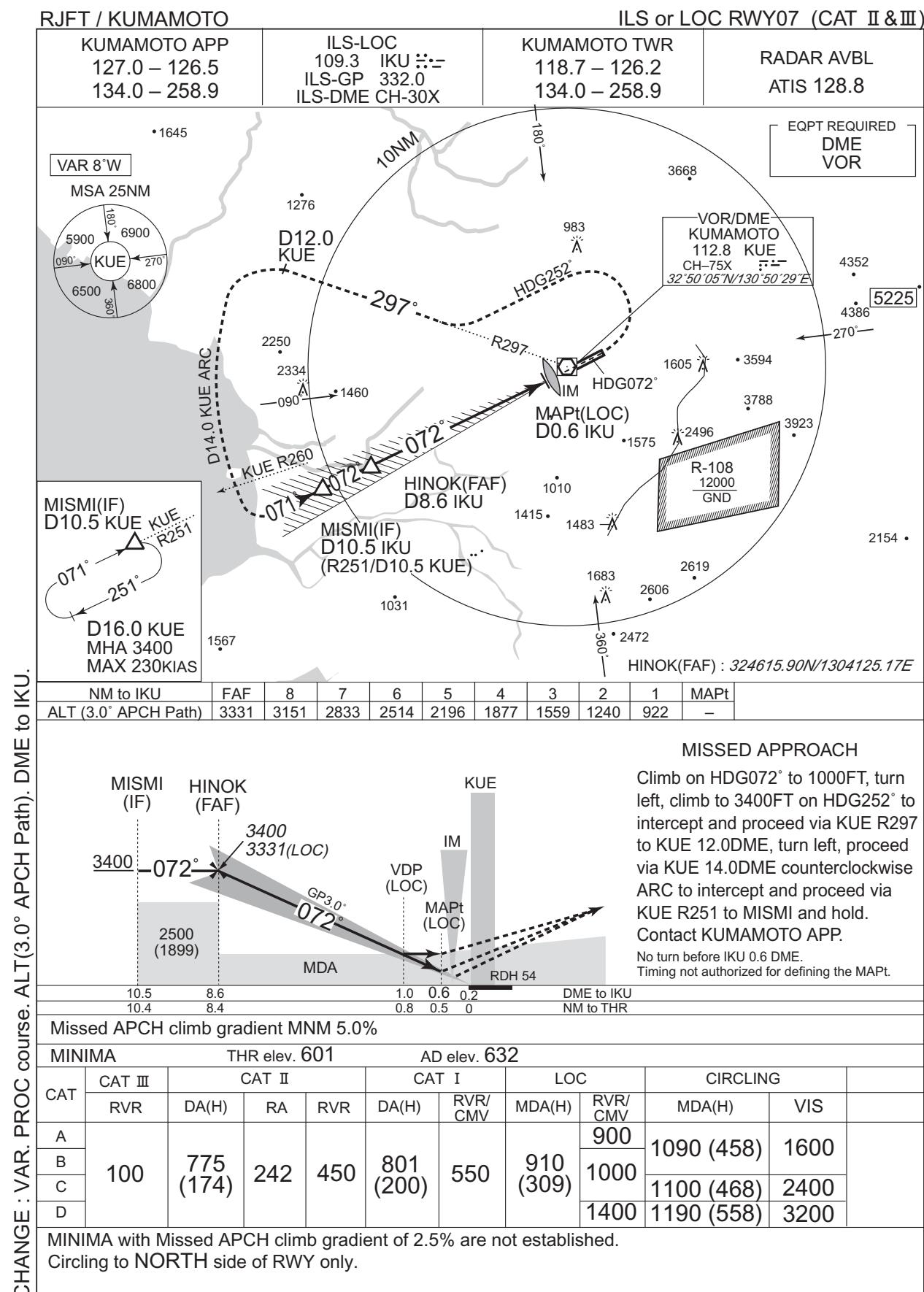
From KAZMA at or above 8000FT, to KIKTI at or above 4200FT, to FT751, to FT752, to MISMI at or above 3400FT.

Critical DME	SGE : 20NM to KIKTI – 8NM to KIKTI 5NM to FT751 – FT752 KUE : 12NM to KIKTI – 8NM to KIKTI 5NM to FT751 – 2NM to FT751
DME GAP Inappropriate Navaids	8NM to KIKTI – 5NM to FT751 See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

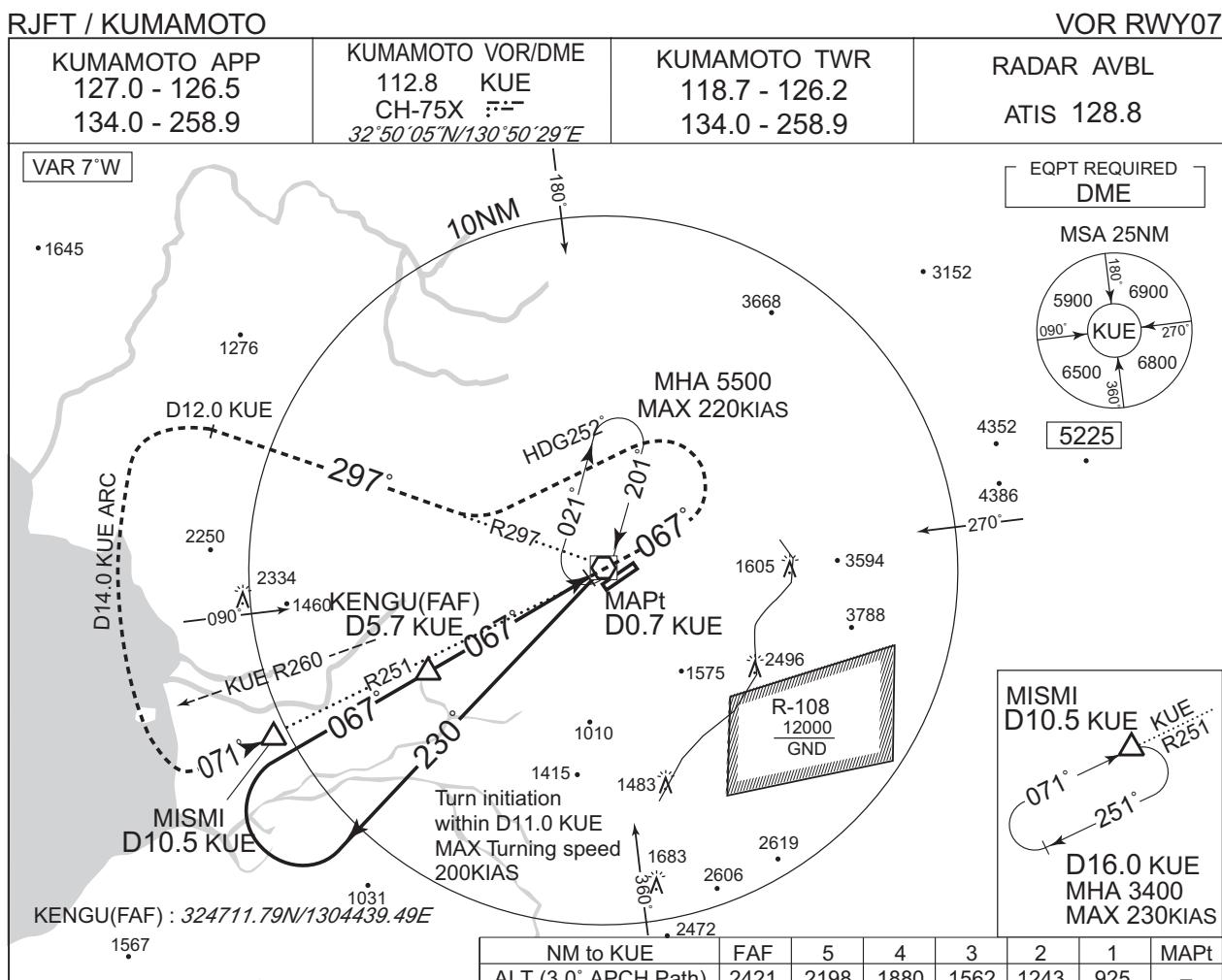
CHANGE : VAR. PROC renamed. PROC course. FT751, FT752 established. FT07Z, FT07Y abolished.

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	KAZMA	–	–	-7.6	–	–	+8000	–	–	RNAV1
002	TF	KIKTI	–	261 (253.4)	-7.6	24.3	–	+4200	–	–	RNAV1
003	TF	FT751	–	261 (253.2)	-7.6	5.3	–	–	-240	–	RNAV1
004	TF	FT752	–	192 (184.5)	-7.6	4.5	–	–	-210	–	RNAV1
005	TF	MISMI	–	102 (094.8)	-7.6	3.3	–	+3400	-210	–	RNAV1

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

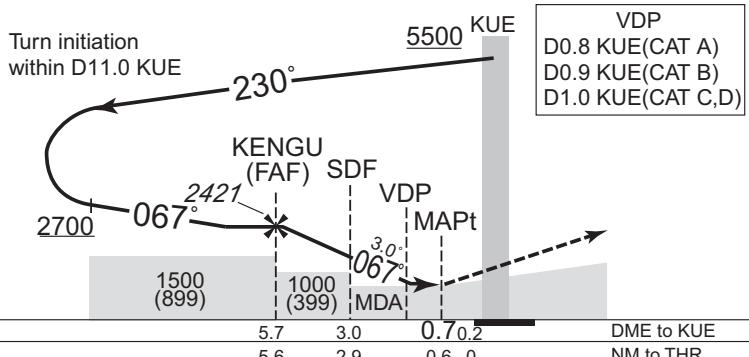


## MISSED APPROACH

Climb to 1000FT via KUE R067, turn left, climb to 3400FT on HDG252° to intercept and proceed via KUE R297 to KUE 12.0DME, turn left, proceed via KUE 14.0DME counterclockwise ARC to intercept and proceed via KUE R251 to MISMI and hold. Contact KUMAMOTO APP.

No turn before MAPt.

Timing not authorized for defining the MAPt.

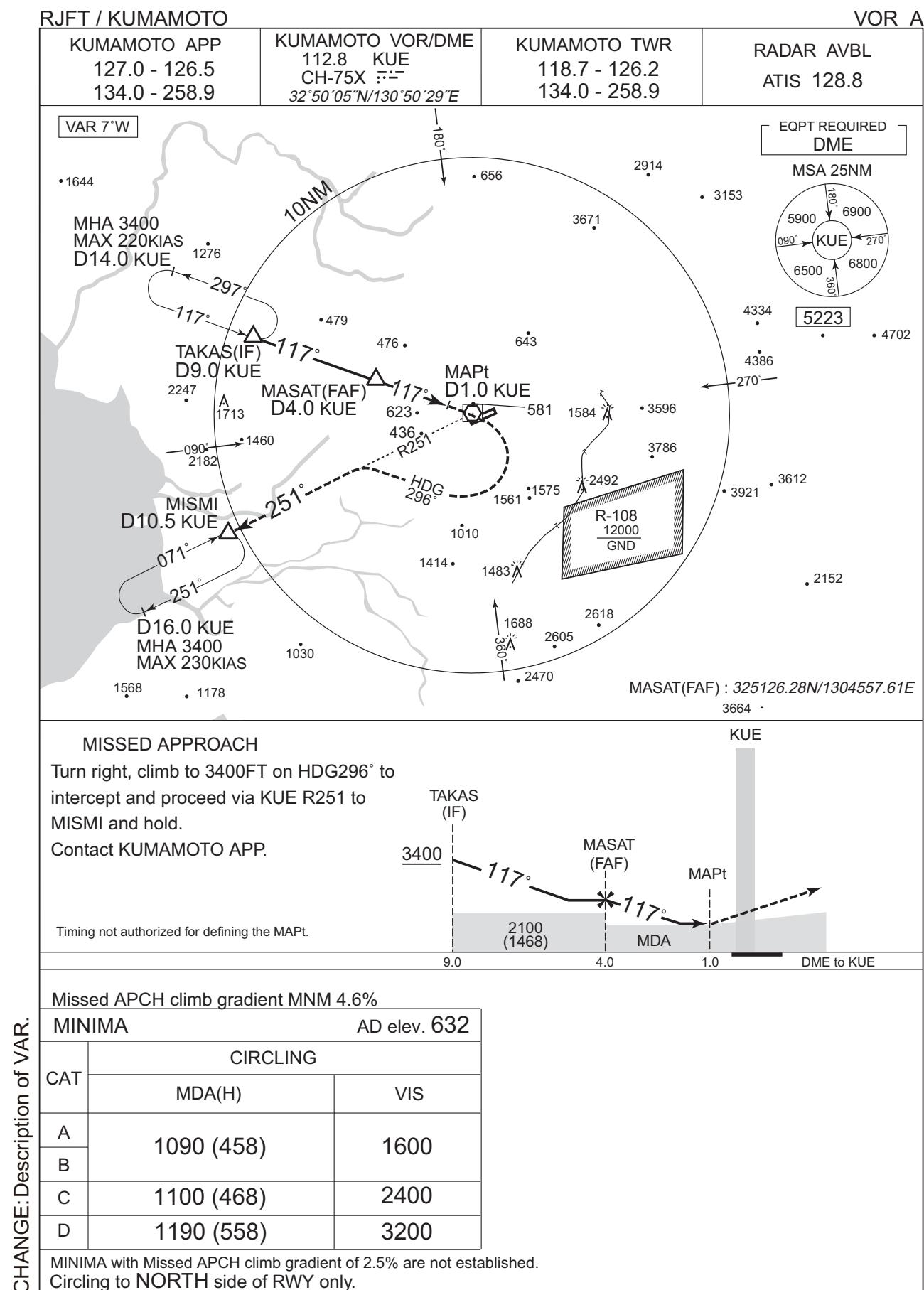


CHANGE: Description of VAR:

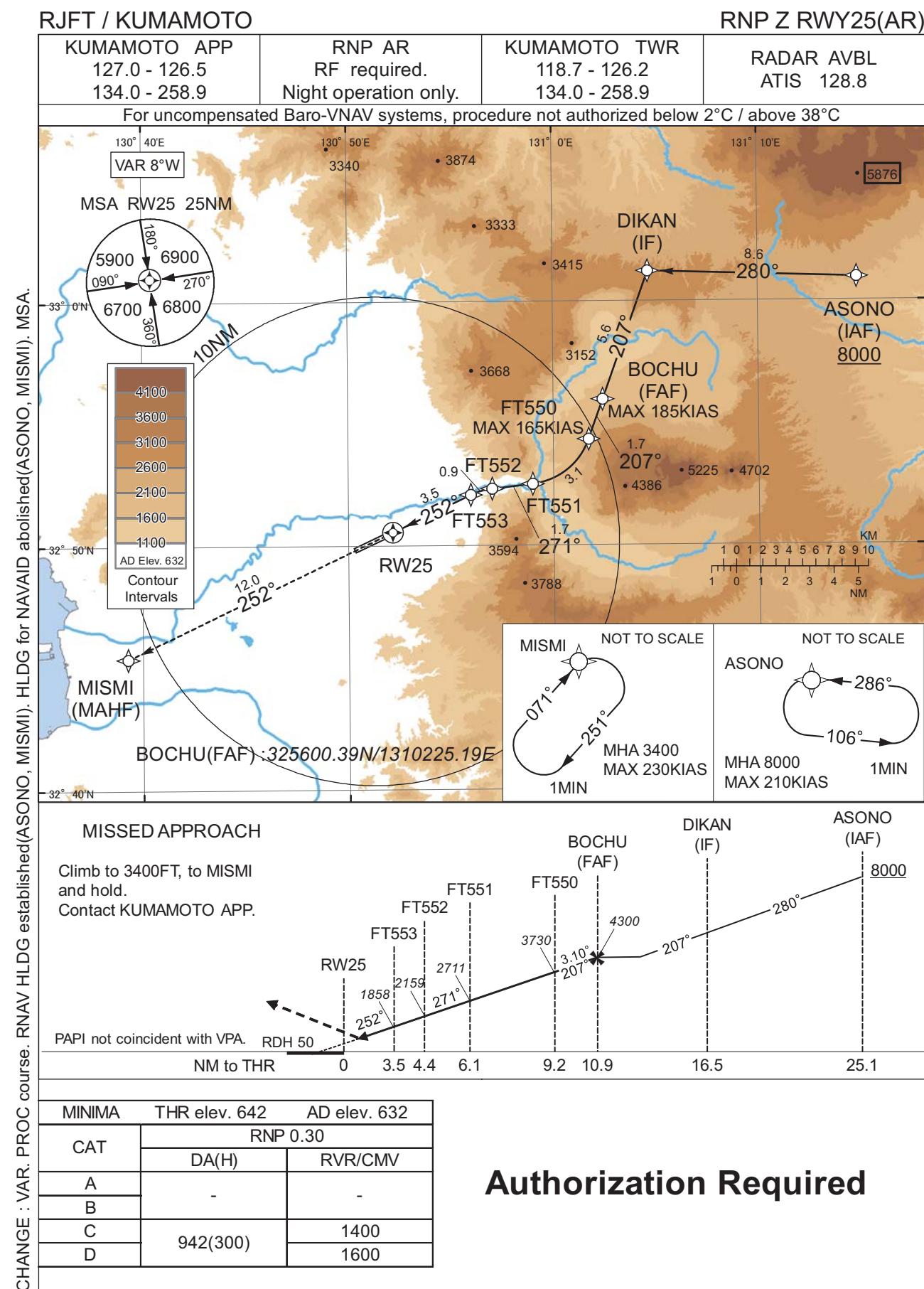
MINIMA		THR elev. 601	AD elev. 632	
CAT	CIRCLING			
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	870 (269)	800	1090 (458)	1600
B	890 (289)			
C	910 (309)	1000	1100 (468)	2400
D	1400	1190 (558)	3200	

Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Z RWY25(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	ASONO	-	-	-7.6	-	-	+8000	-	-	-				
002	TF	DIKAN	-	280 (272.0)	-7.6	8.6	-	-	-	-	1.0				
003	TF	BOCHU	-	207 (199.6)	-7.6	5.6	-	4300	-185	-	1.0				
004	TF	FT550	-	207 (199.6)	-7.6	1.7	-	3730	-165	-3.10	0.3				
005	RF Center: FTRF1 r=2.77NM	FT551	-	-	-7.6	3.1	R	2711	-	-3.10	0.3				
006	TF	FT552	-	271 (263.6)	-7.6	1.7	-	2159	-	-3.10	0.3				
007	RF Center: FTRF2 r=2.77NM	FT553	-	-	-7.6	0.9	L	1858	-	-3.10	0.3				
008	TF	RW25	Y	252 (244.5)	-7.6	3.5	-	692	-	-3.10/50	0.3				
009	TF	MISMI	-	252 (244.5)	-7.6	12.0	-	3400	-	-	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	ASONO	286 (278.5)	-7.6	1.0 (-14000)		L	8000	FL140	-210 (-14000)	1.0					
Hold	MISMI	071 (063.5)	-7.6	1.0 (-14000)		R	3400	FL140	-230 (-14000)	1.0					
Waypoint Coordinates															
Waypoint Identifier		Coordinates			RF Arc Center Identifier			Coordinates							
ASONO		330058.11N / 1311449.42E			FTRF1			325518.34N / 1305837.73E							
DIKAN		330115.22N / 1310438.68E			FTRF2			324936.20N / 1305722.87E							
BOCHU		325600.39N / 1310225.19E													
FT550		325422.38N / 1310143.69E													
FT551		325232.83N / 1305859.64E													
FT552		325221.62N / 1305700.92E													
FT553		325206.61N / 1305558.39E													
RW25		325035.24N / 1305210.28E													
MISMI		324524.10N / 1303916.73E													

CHANGE : VAR. PROC course. RNAV HLDG established.

## INSTRUMENT APPROACH CHART

## RJFT / KUMAMOTO

KUMAMOTO APP  
127.0 - 126.5  
134.0 - 258.9

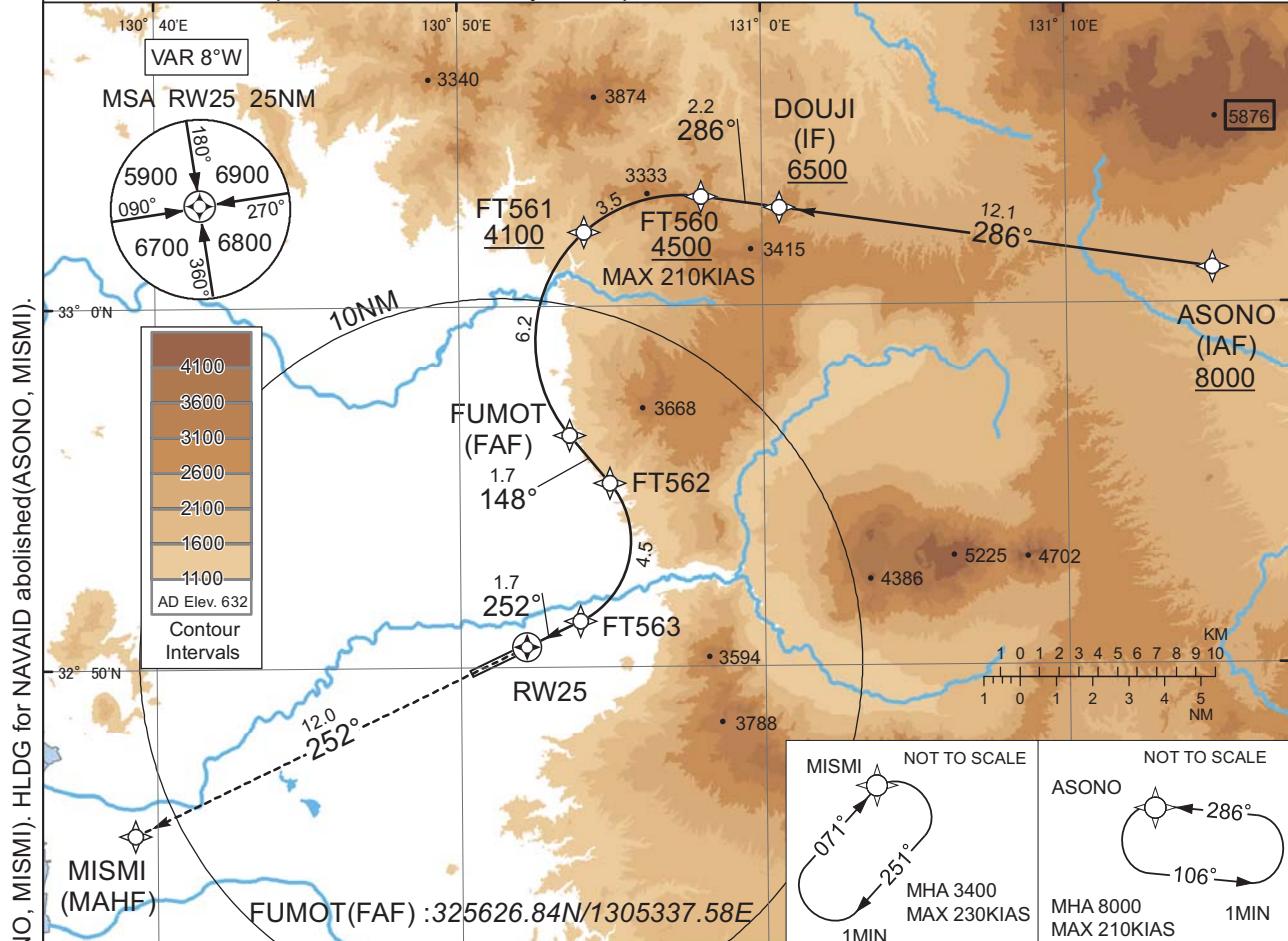
RNP AR  
RF required.

KUMAMOTO TWR  
118.7 - 126.2  
134.0 - 258.9

## RNP Y RWY25(AR)

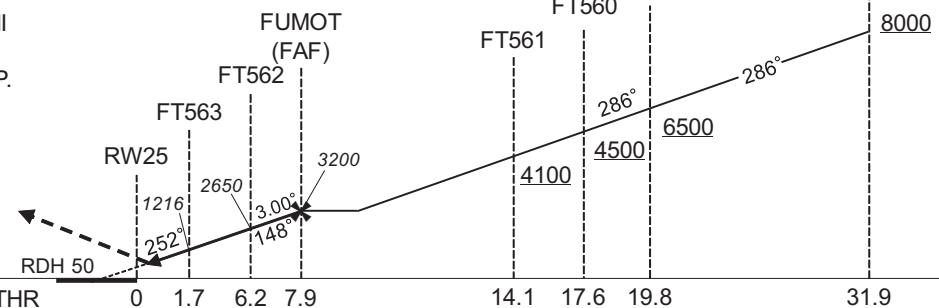
RADAR AVBL  
ATIS 128.8

For uncompensated Baro-VNAV systems, procedure not authorized below -4°C / above 45°C



## MISSED APPROACH

Climb to 3400FT, to MISMI and hold.  
Contact KUMAMOTO APP.



MINIMA	THR elev. 642	AD elev. 632
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	942(300)	1400
D		1600

**Authorization Required**

## INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Y RWY25(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	ASONO	-	-	-7.6	-	-	+8000	-	-	-
002	TF	DOUJI	-	286 (278.4)	-7.6	12.1	-	+6500	-	-	1.0
003	TF	FT560	-	286 (278.3)	-7.6	2.2	-	+4500	-210	-	1.0
004	RF Center: FTRF3 r=4.04NM	FT561	-	-	-7.6	3.5	L	+4100	-	-	1.0
005	RF Center: FTRF3 r=4.04NM	FUMOT	-	-	-7.6	6.2	L	3200	-	-	0.7
006	TF	FT562	-	148 (140.4)	-7.6	1.7	-	2650	-	-3.00	0.3
007	RF Center: FTRF4 r=2.47NM	FT563	-	-	-7.6	4.5	R	1216	-	-3.00	0.3
008	TF	RW25	Y	252 (244.5)	-7.6	1.7	-	692	-	-3.00/50	0.3
009	TF	MISMI	-	252 (244.5)	-7.6	12.0	-	3400	-	-	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	ASONO	286 (278.5)	-7.6	1.0 (-14000)	L	8000	FL140	-210 (-14000)	1.0
Hold	MISMI	071 (063.5)	-7.6	1.0 (-14000)	R	3400	FL140	-230 (-14000)	1.0

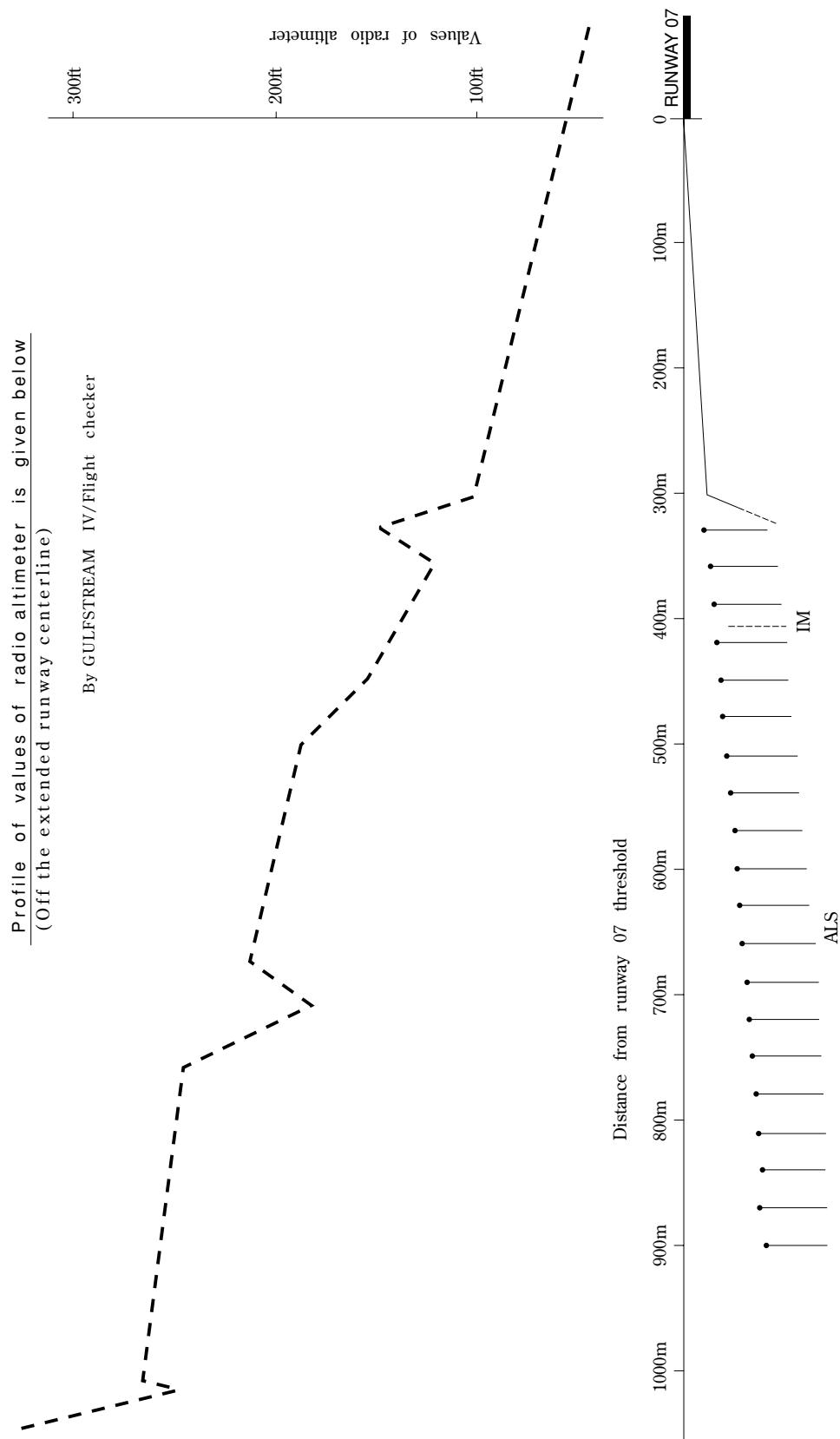
  

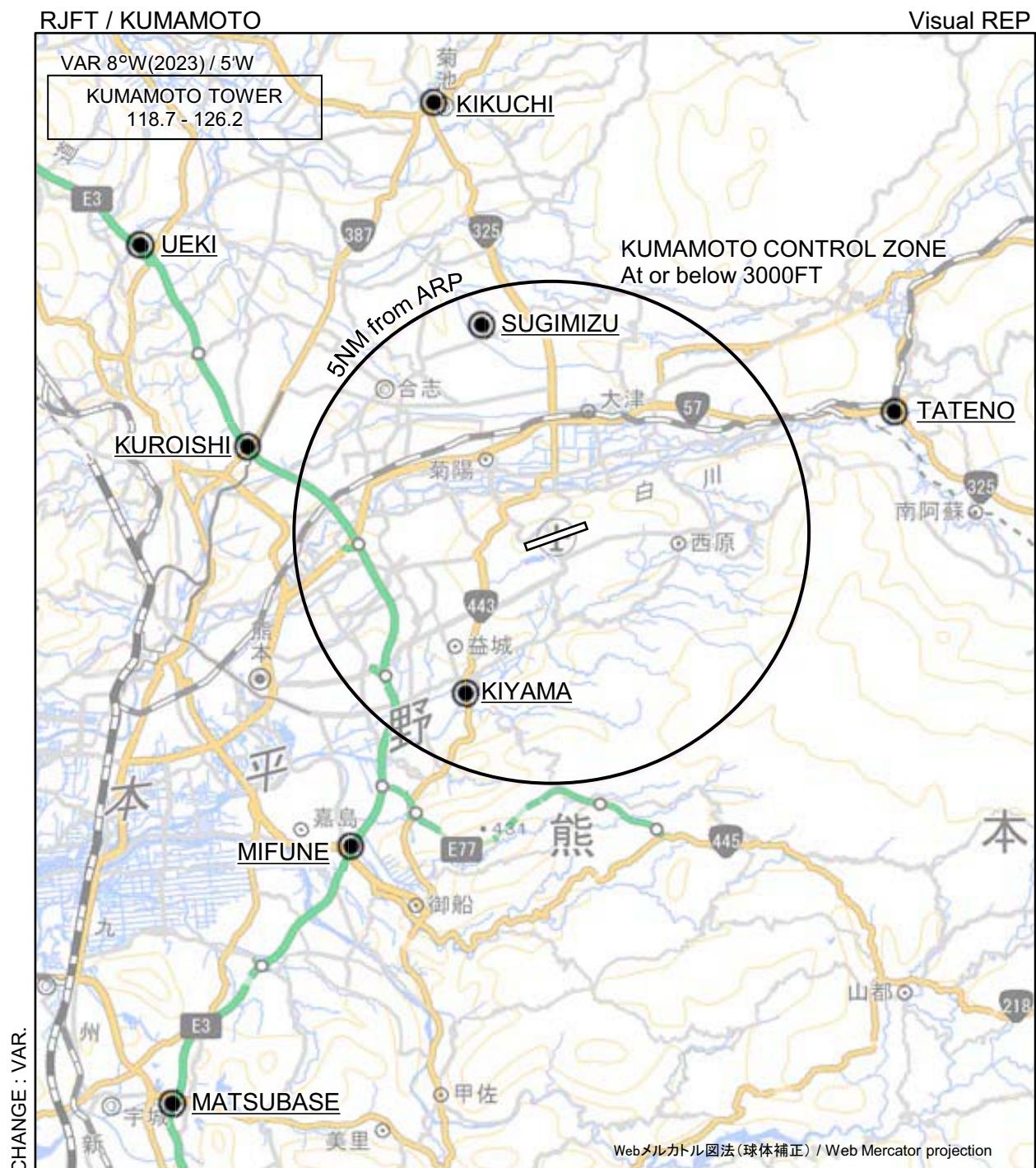
Waypoint Coordinates									
Waypoint Identifier		Coordinates		RF Arc Center Identifier		Coordinates			
ASONO		330058.11N / 1311449.42E		FTRF3		325902.05N / 1305719.25E			
DOUJI		330243.56N / 1310035.13E		FTRF4		325331.98N / 1305240.81E			
FT560		330302.45N / 1305800.60E							
FT561		330204.49N / 1305408.90E							
FUMOT		325626.84N / 1305337.58E							
FT562		325506.96N / 1305456.29E							
FT563		325117.72N / 1305356.28E							
RW25		325035.24N / 1305210.28E							
MISMI		324524.10N / 1303916.73E							

CHANGE : VAR. PROC course. RNAV HLDG established.

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PROFILE OF VALUES OF RADIO ALTIMETER





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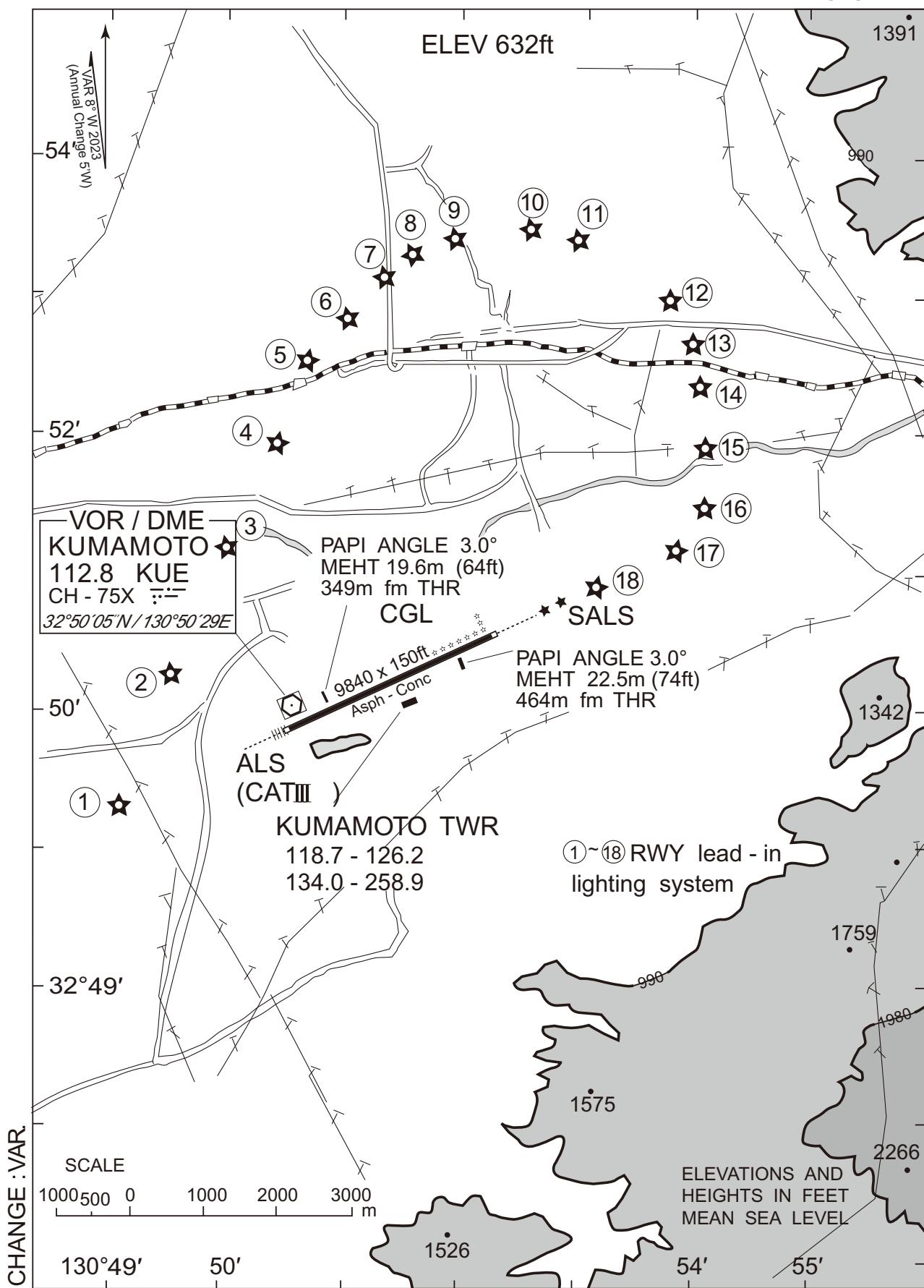
Visual REP

Call sign	BRG / DIST from ARP	Remarks
植木 Ueki	305°T / 9.9NM	九州自動車道植木インターチェンジ Kyushu expressway Ueki interchange
黒石 Kuroishi	286°T / 6.2NM	九州自動車道と国道387号線との交点 Intersection of Kyushu expressway and national route 387
菊池 Kikuchi	345°T / 8.9NM	NTT鉄塔(国道325号と国道387号の交点) Antenna tower (Intersection of national route 325 and 387)
杉水 Sugimizu	342°T / 4.5NM	ゴルフ場(くまもと中央CC) Golf course (Kumamoto Chuo CC)
立野 Tateno	070°T / 7.1NM	新阿蘇大橋 Bridge
木山 Kiyama	208°T / 3.6NM	木山川と国道443号との交点 Intersection of Kiyama river and national route 443
御船 Mifune	212°T / 7.4NM	九州自動車道御船インターチェンジ Kyushu expressway Mifune interchange
松橋 Matsubase	213°T / 13.6NM	九州自動車道松橋インターチェンジ Kyushu expressway Matsubase interchange

CHANGE : BRG/DIST from ARP. Visual REP established (KIKUCHI, MATSUBASE). Remarks (TATENO).

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## LDG CHART



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Minimum Vectoring Altitude CHART

