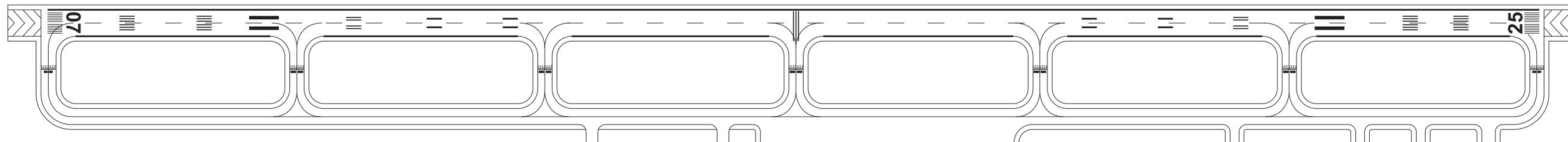


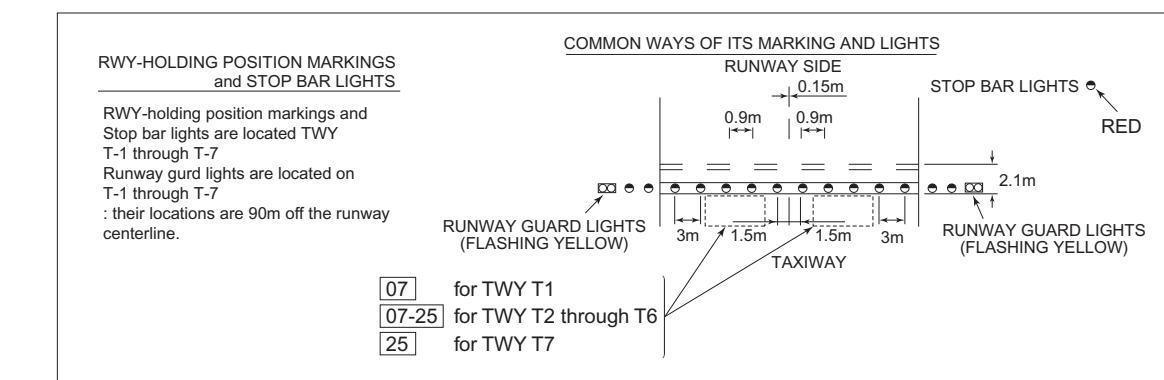
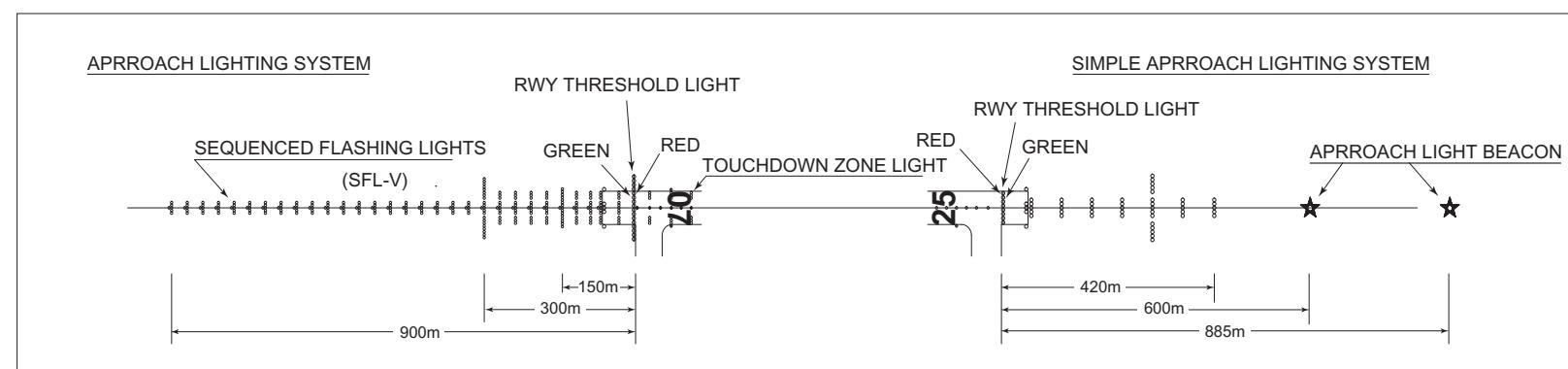
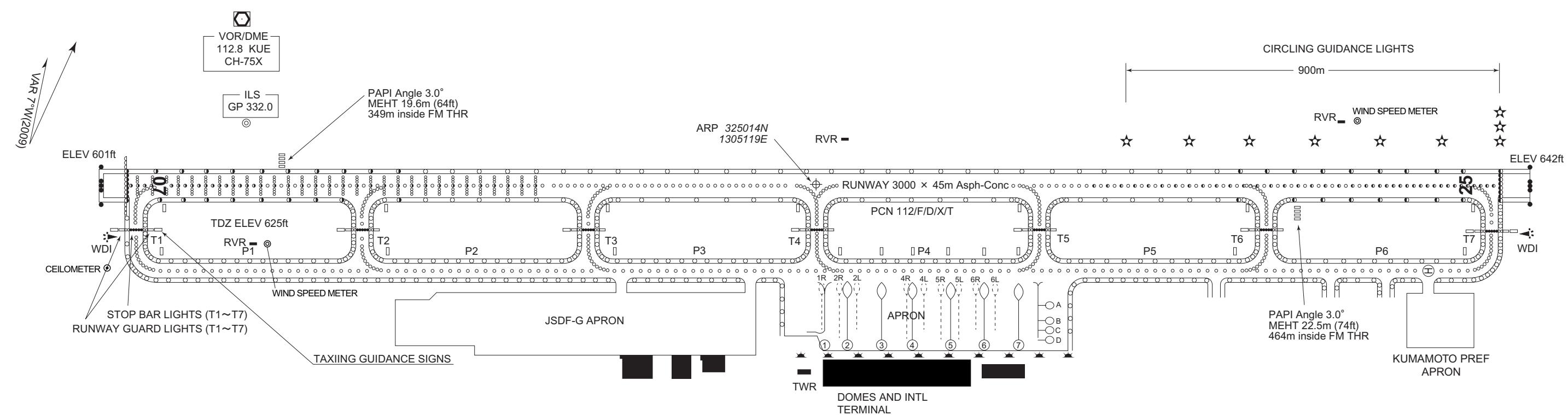
AERODROME CHART

KUMAMOTO AIRPORT
ELEV 192.7m(632f)



MARKING AIDS

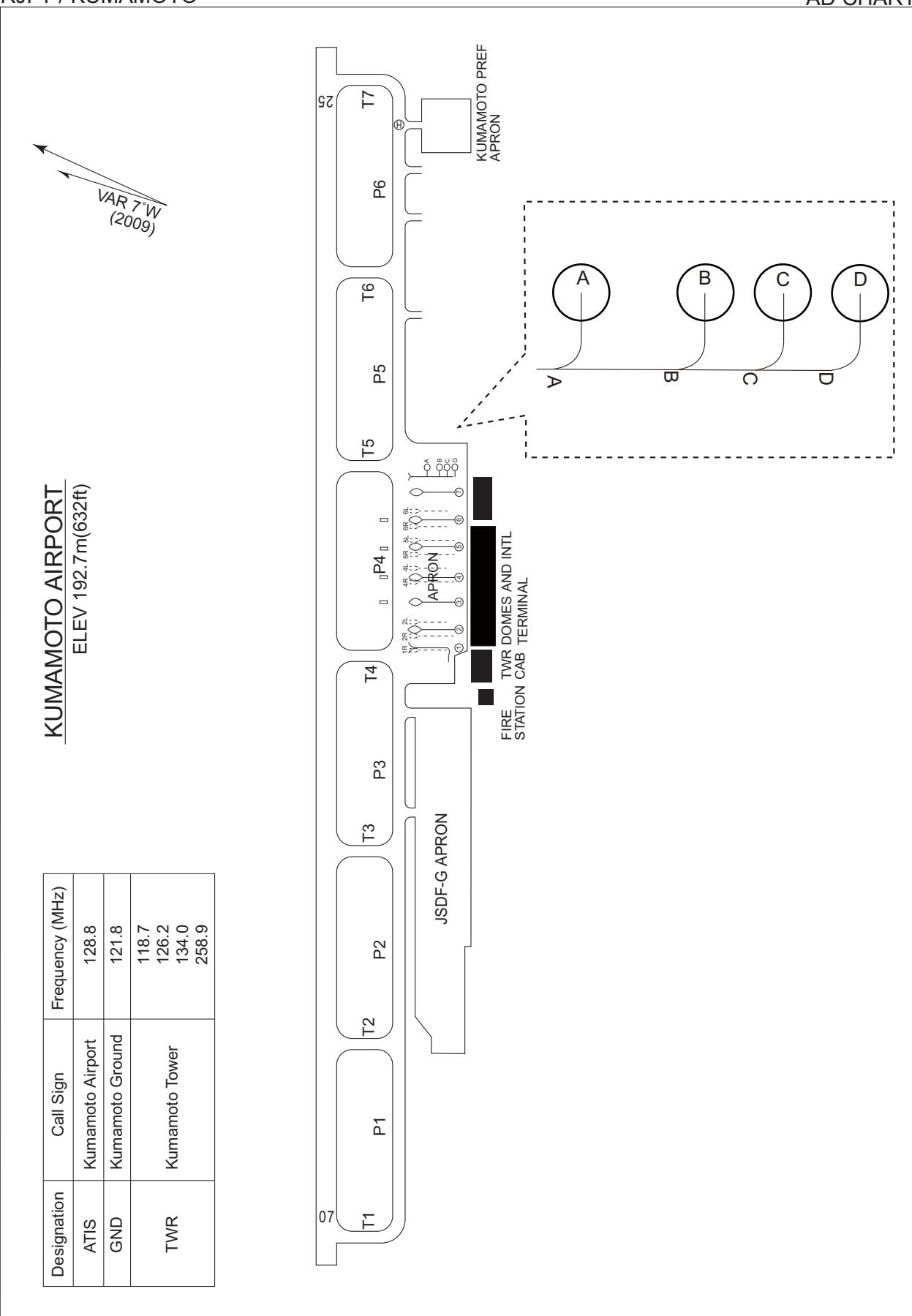
CHANGE : SPOT relocated. Shape of BLDG.



CHANGE : SPOT relocated. Shape of BLDG.

RJFT / KUMAMOTO

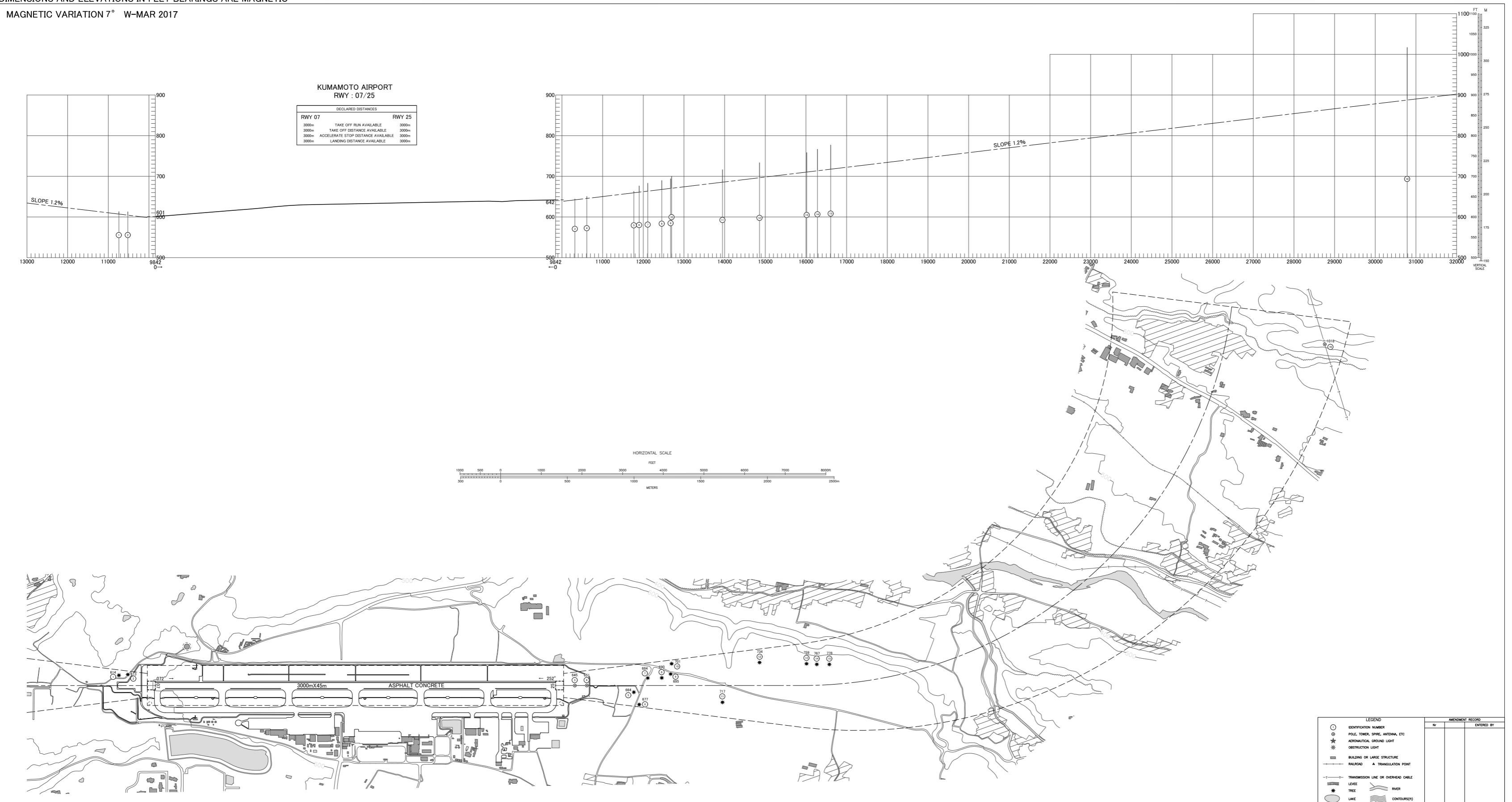
AD CHART



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 7° W-MAR 2017

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

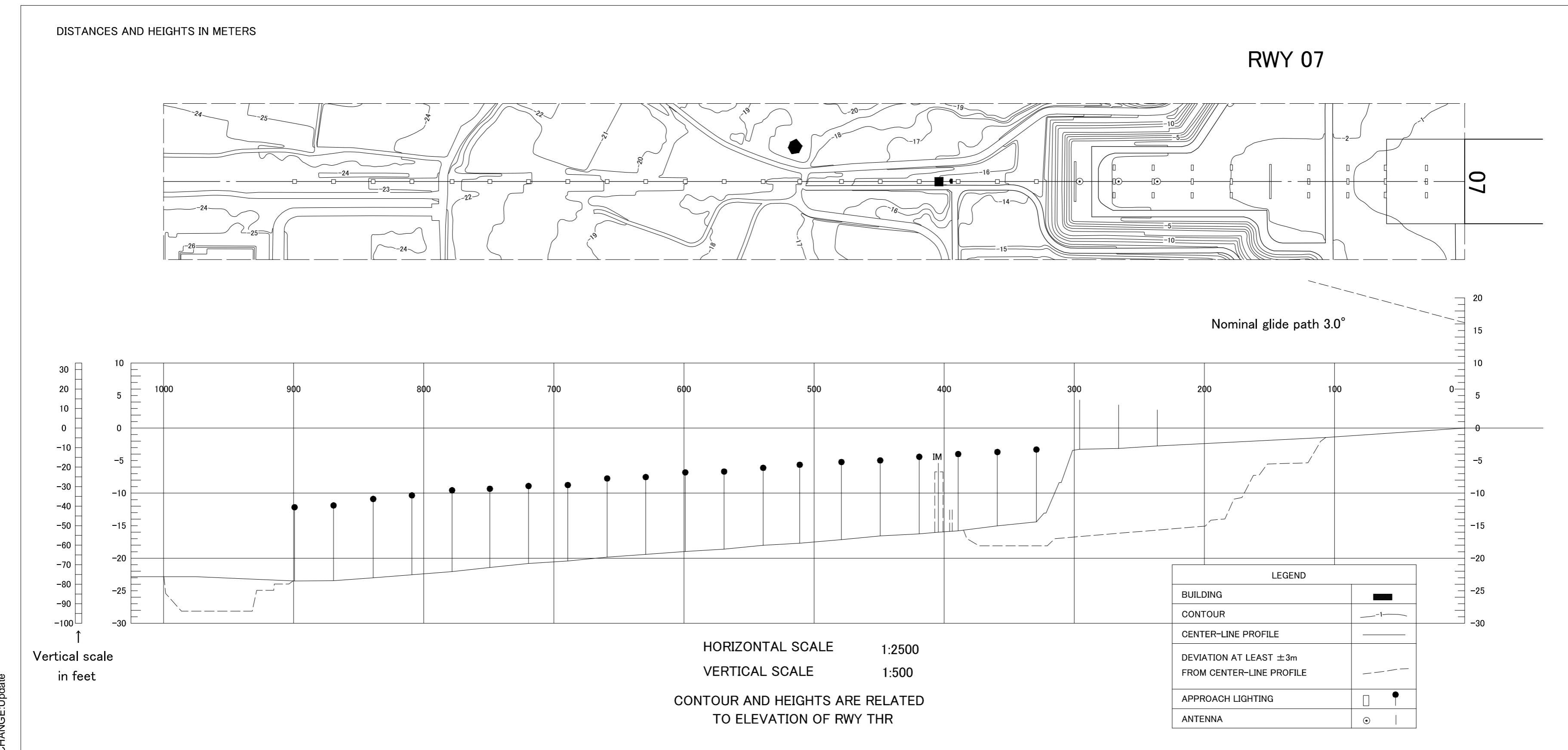
TYPE B

AERODROME ELEVATION 632ft ARF



CHANGE:Update

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

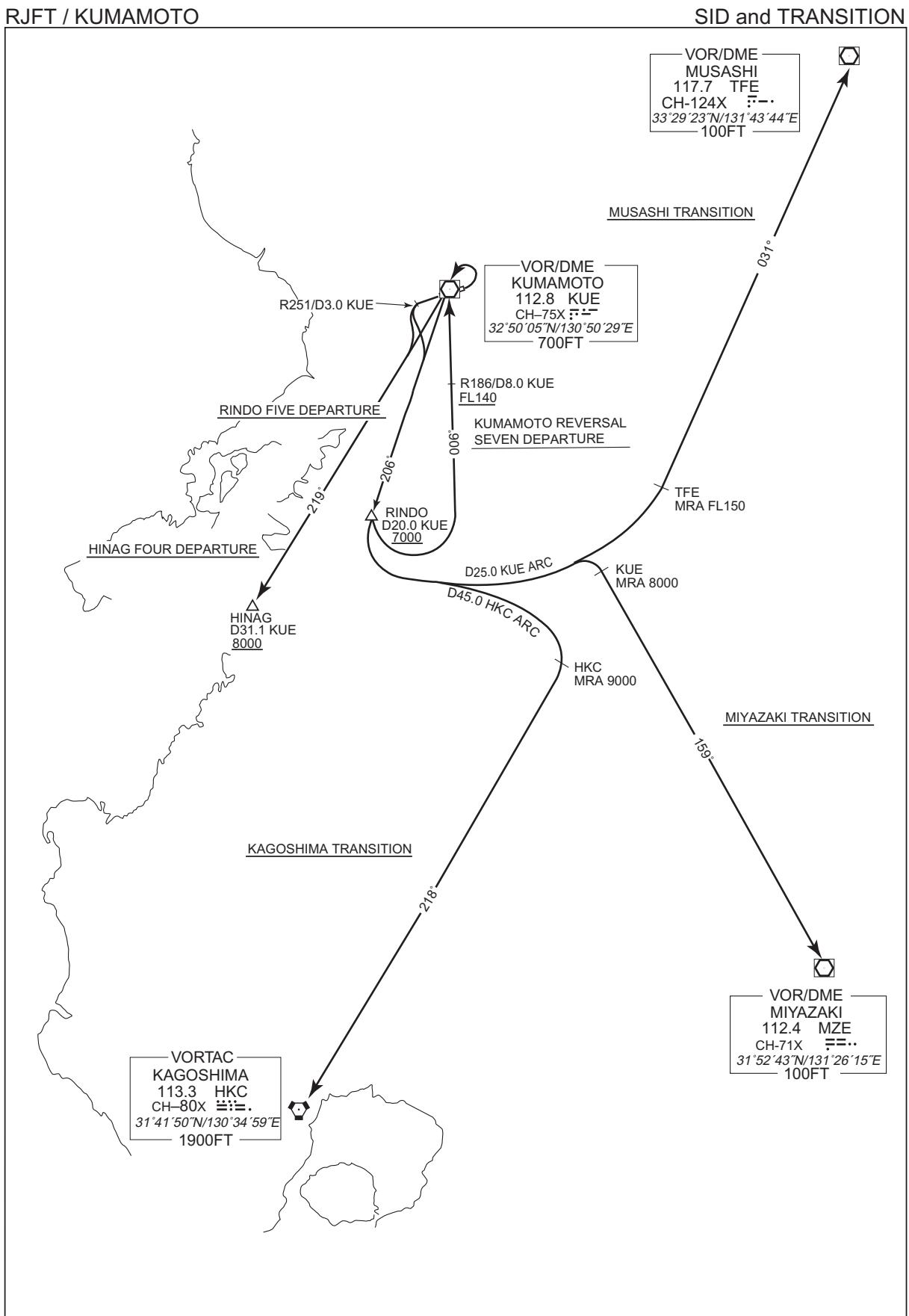
From over RINDO, turn left, proceed via KUE 25.0DME counterclockwise ARC to intercept and proceed via TFE R211 (MRA FL150) to TFE VOR/DME.

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

SID

IRUKA TWO DEPARTURE

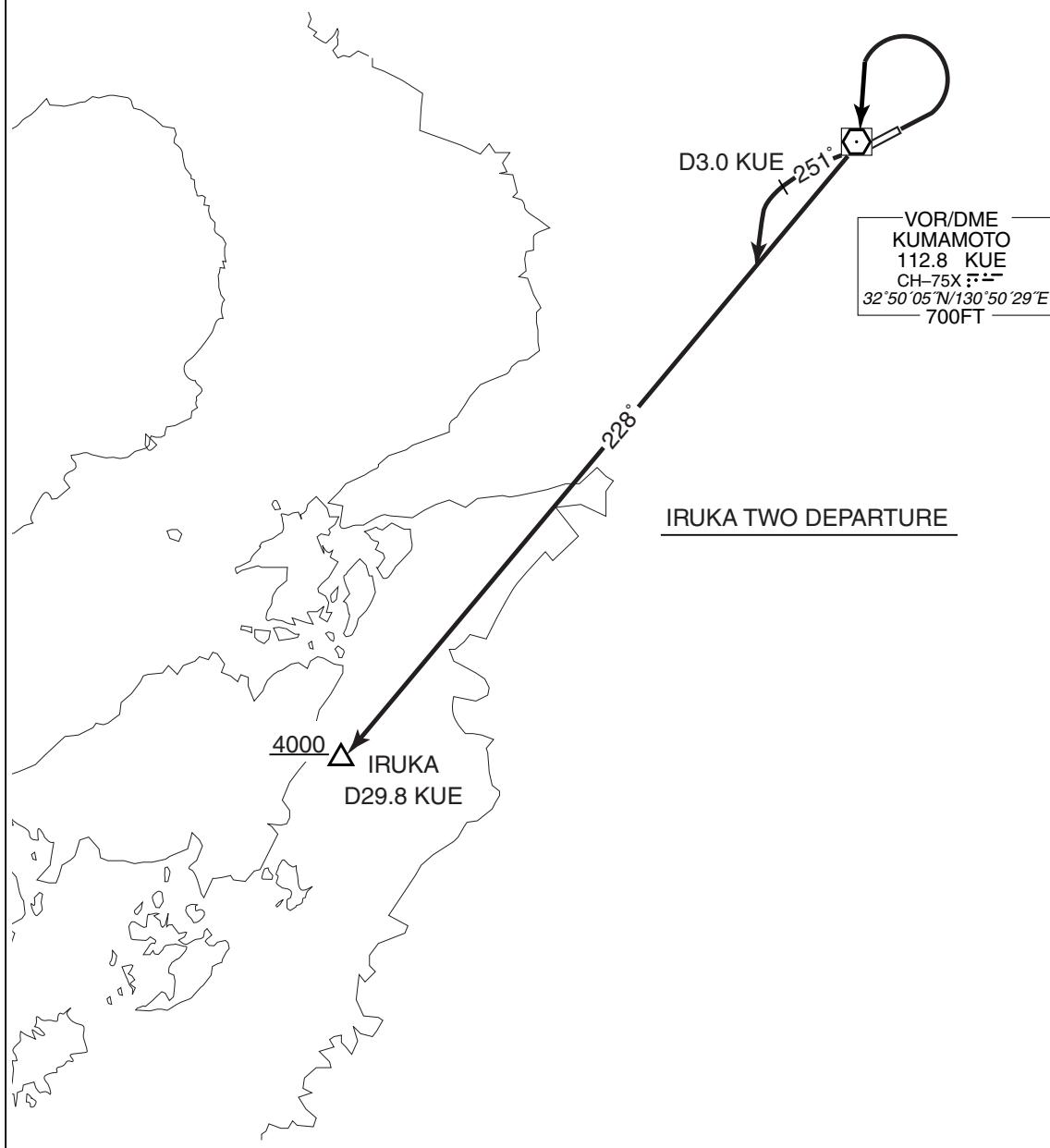
RWY07 : Turn left, direct to KUE VOR/DME,...

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.

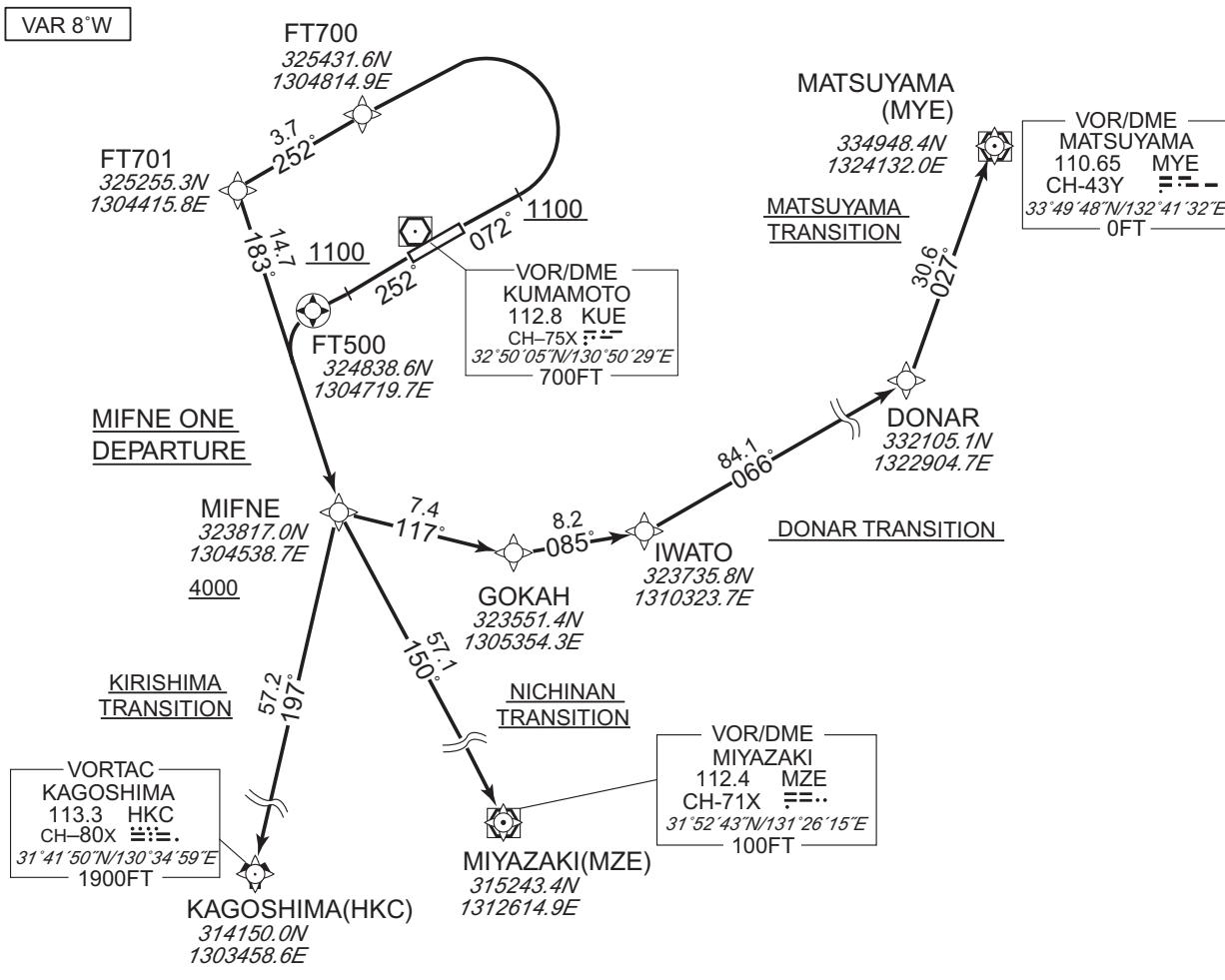


STANDARD DEPARTURE CHART-INSTRUMENT

RJFT / KUMAMOTO

RNAV SID and TRANSITION

MIFNE ONE DEPARTURE DONAR TRANSITION / MATSUYAMA TRANSITION KIRISHIMA TRANSITION / NICHINAN TRANSITION		RNAV 1
<p>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.</p> <p>2) RADAR service required</p>	Critical DME	KIRISHIMA TRANSITION MZE : 14.0NM to HKC - HKC
	DME GAP	RWY07 : DER - FT701 RWY25 : DER - FT500
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1



MIFNE ONE DEPARTURE

RWY07 : Climb on HDG072° at or above 1100FT, turn left direct to FT700, to FT701, to MIFNE at or above 4000FT.

RWY25 : Climb on HDG252° at or above 1100FT, direct to FT500, turn left direct to MIFNE 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.

DONOR TRANSITION

DONAR TRANSITION
From MIENE at or above 4000FT to GOKAH to IWATO to DONAR

MATSUYAMA TRANSITION

MIASUYAMA TRANSITION From MIENE at or above 4000FT to GOKAH to IWATO to DONAB to MYE

KIRISHIMA TRANSITION

From MIENE at or above 4000FT to HKC

FROM MELTECH TO above

CHINAN TRANSITION
From MIENE at or above 4000FT to MZE

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.

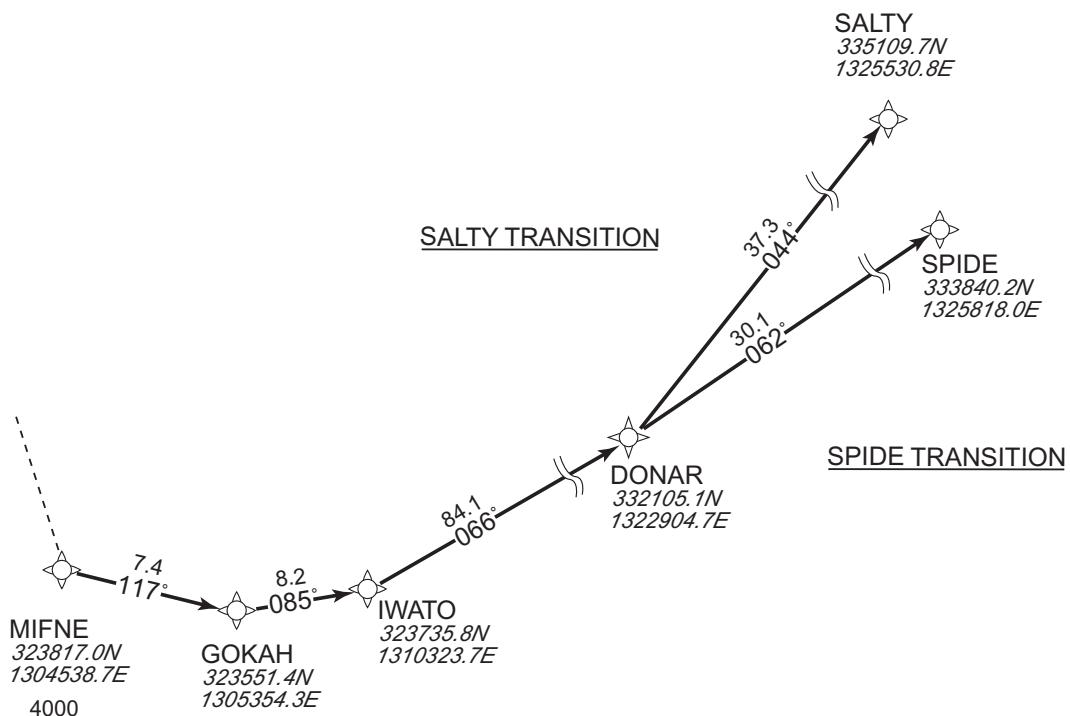
STANDARD DEPARTURE CHART-INSTRUMENT

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

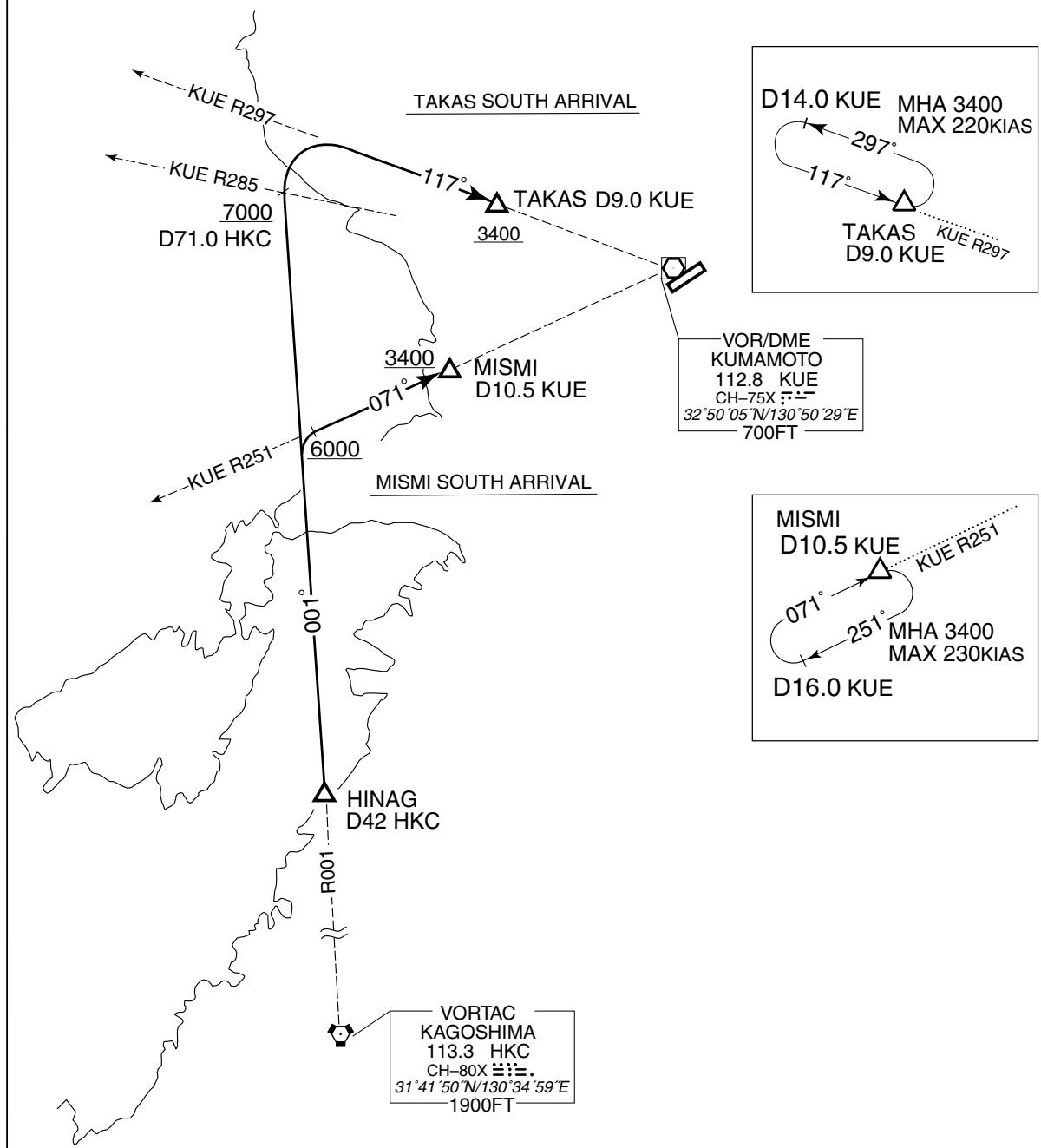
MISMI SOUTH ARRIVAL

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

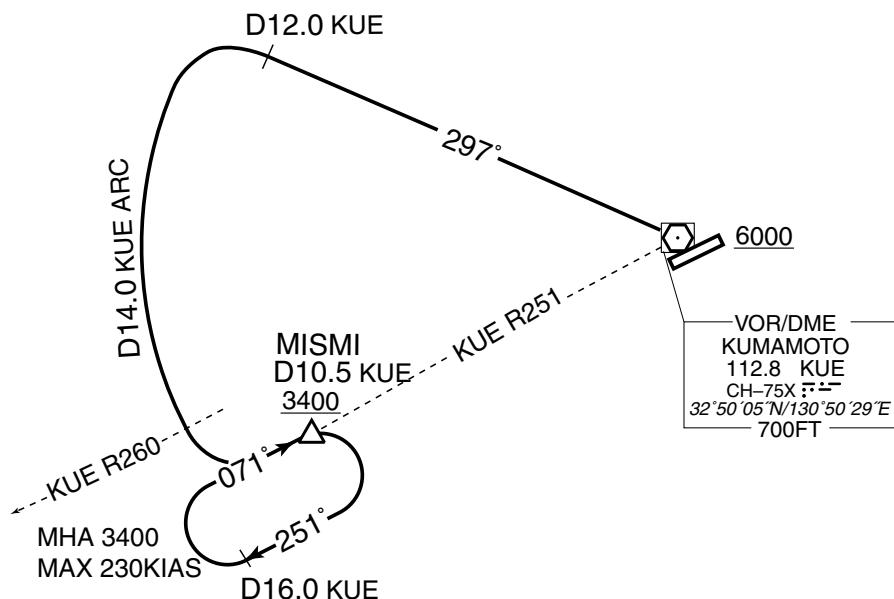
RJFT / KUMAMOTO

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

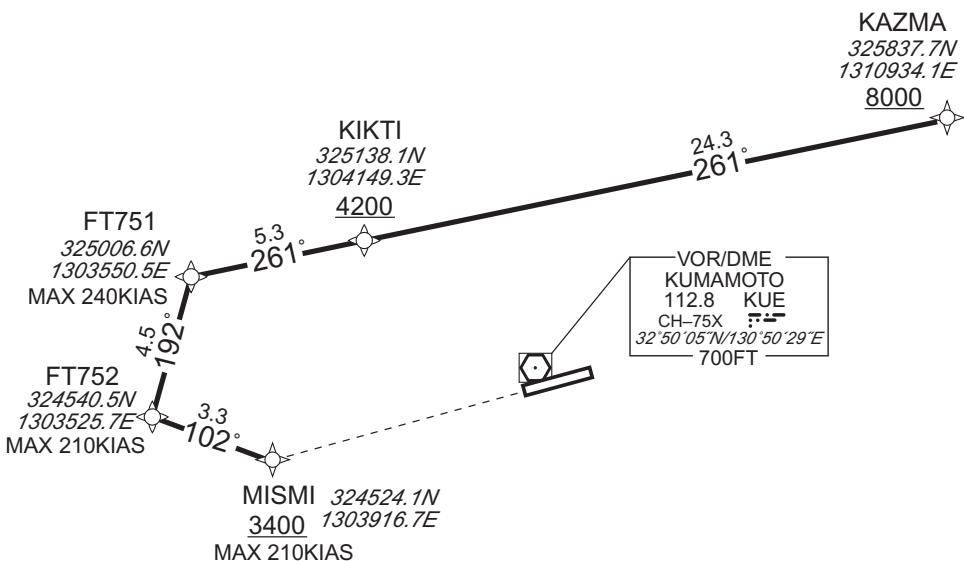
KAZMA ARRIVAL

RNAV1

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

2) RADAR service required.

VAR 8°W



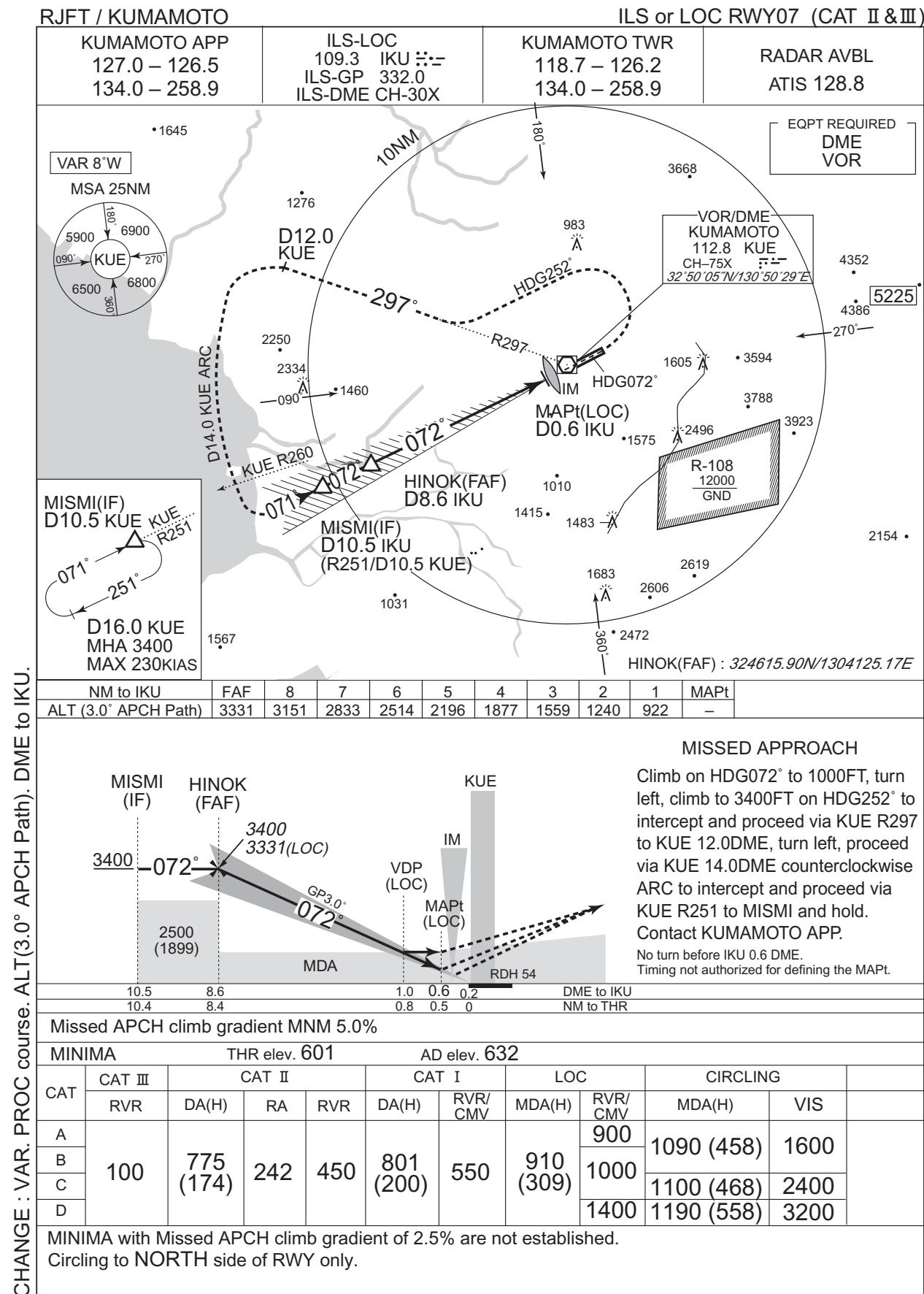
From KAZMA at or above 8000FT, to KIKTI at or above 4200FT, to FT751, to FT752, to MISMI at or above 3400FT.

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.

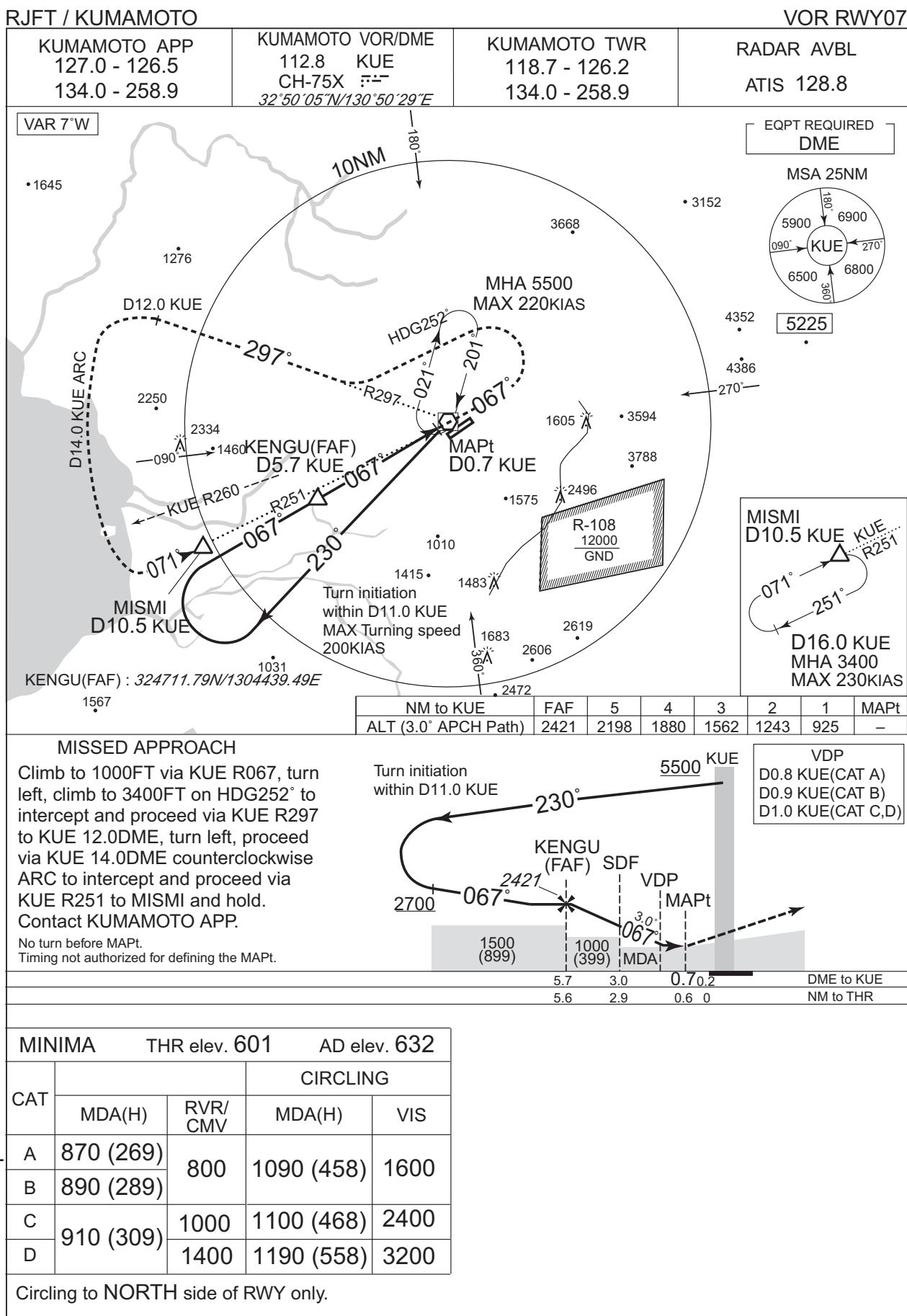
CHANGE : VAR. PROC renamed. PROC course. FT751, FT752 established. FT07Z, FT07Y abolished.

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



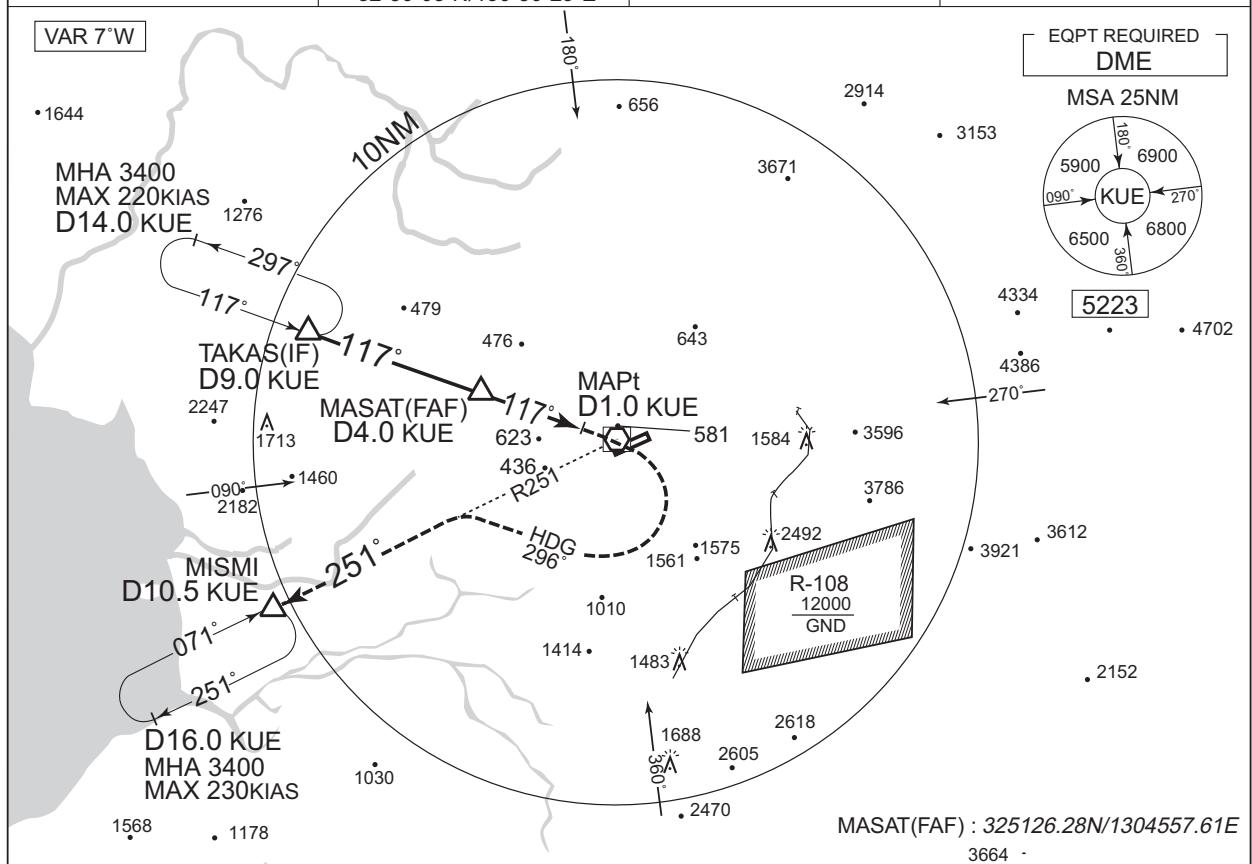
INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

KUMAMOTO VOR/DME
112.8 KUE
CH-75X :-
32°50'05"N/130°50'29"E

KUMAMOTO TWR
118.7 - 126.2
134.0 - 258.9

VOR A

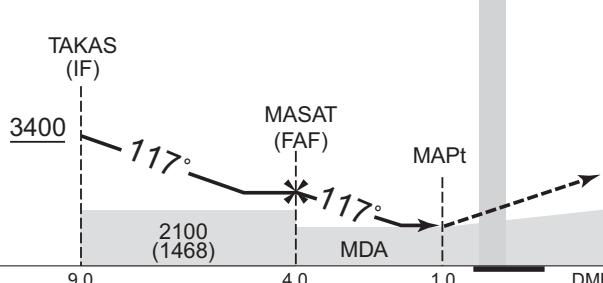


MISSED APPROACH

Turn right, climb to 3400FT on HDG296° to intercept and proceed via KUE R251 to MISMI and hold.

Contact KUMAMOTO APP.

Timing not authorized for defining the MAPt.



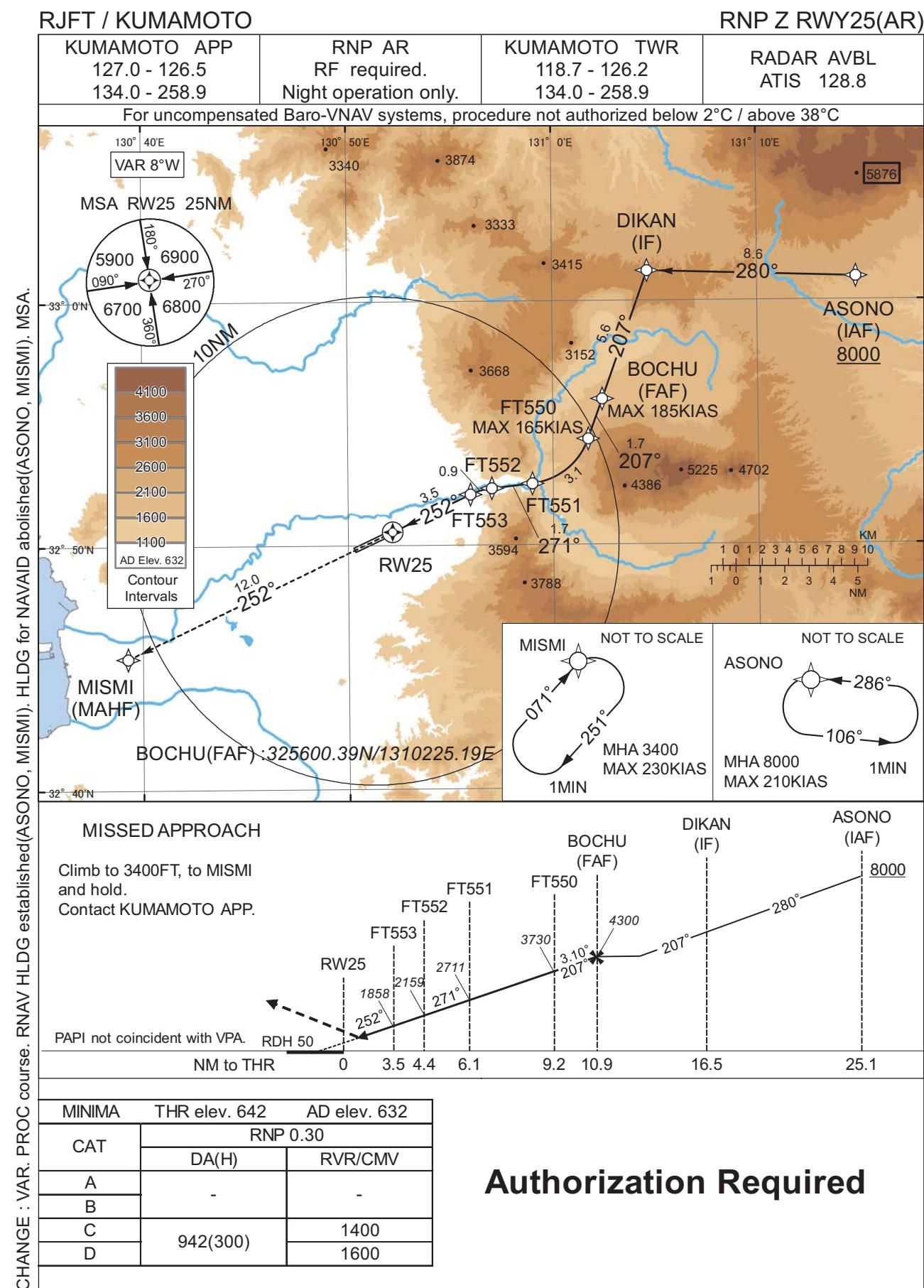
Missed APCH climb gradient MNM 4.6%

MINIMA		AD elev. 632
CAT	CIRCLING	
	MDA(H)	VIS
A	1090 (458)	1600
B		
C	1100 (468)	2400
D	1190 (558)	3200

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

CHANGE: Description of VAR.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Z RWY25(AR)

<u>Coding Table</u>															
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					
<u>Waypoint Coordinates</u>															
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.

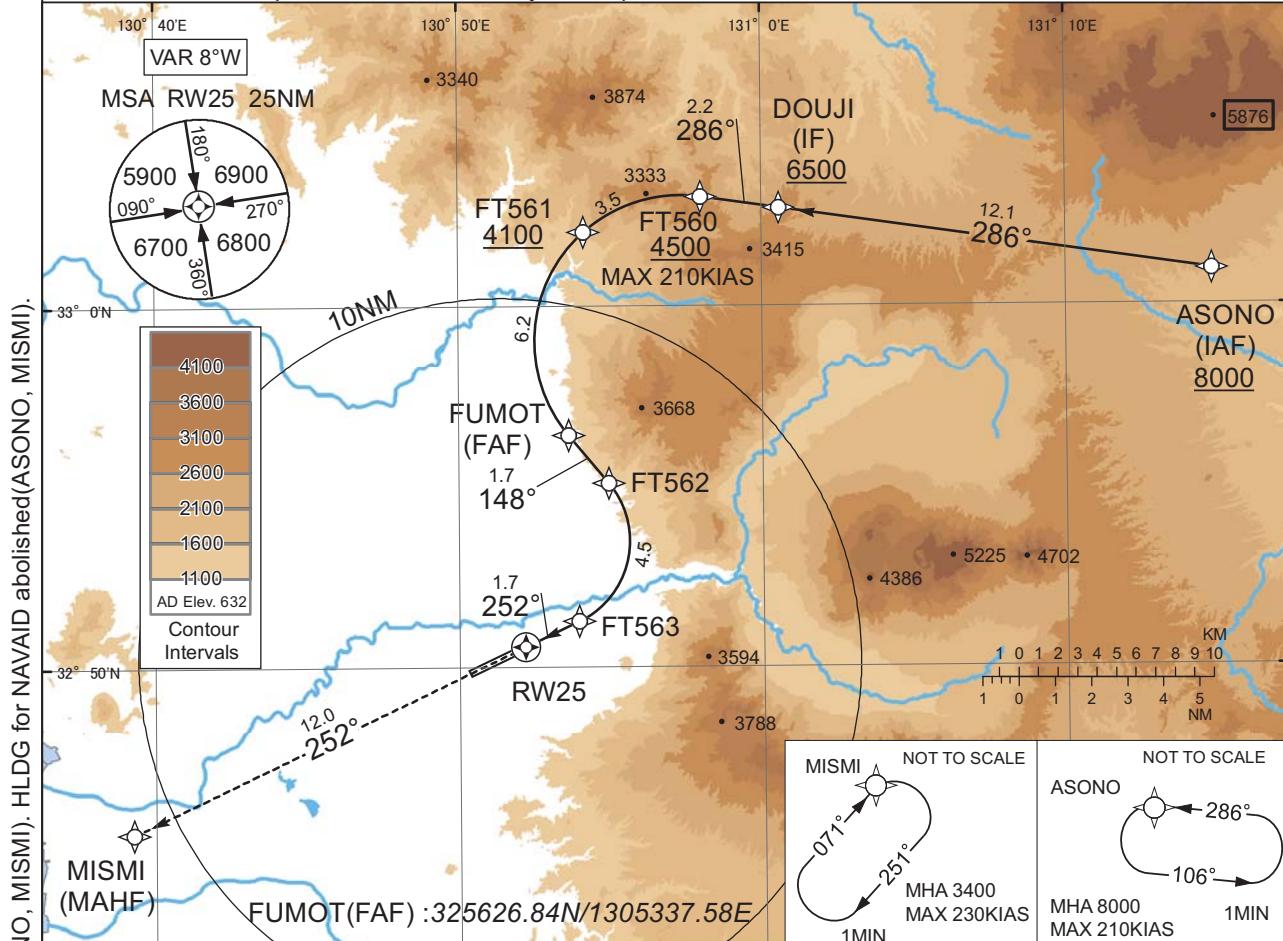
INSTRUMENT APPROACH CHART

RJFT / KUMAMOTO

RNP Y RWY25(AR)

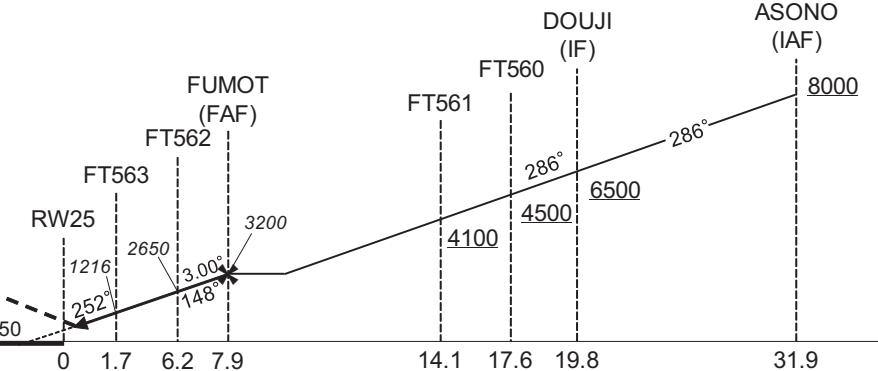
KUMAMOTO APP 127.0 - 126.5 134.0 - 258.9	RNP AR RF required.	KUMAMOTO TWR 118.7 - 126.2 134.0 - 258.9	RADAR AVBL ATIS 128.8
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For uncompensated Baro-VNAV systems, procedure not authorized below -4°C / above 45°C



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		

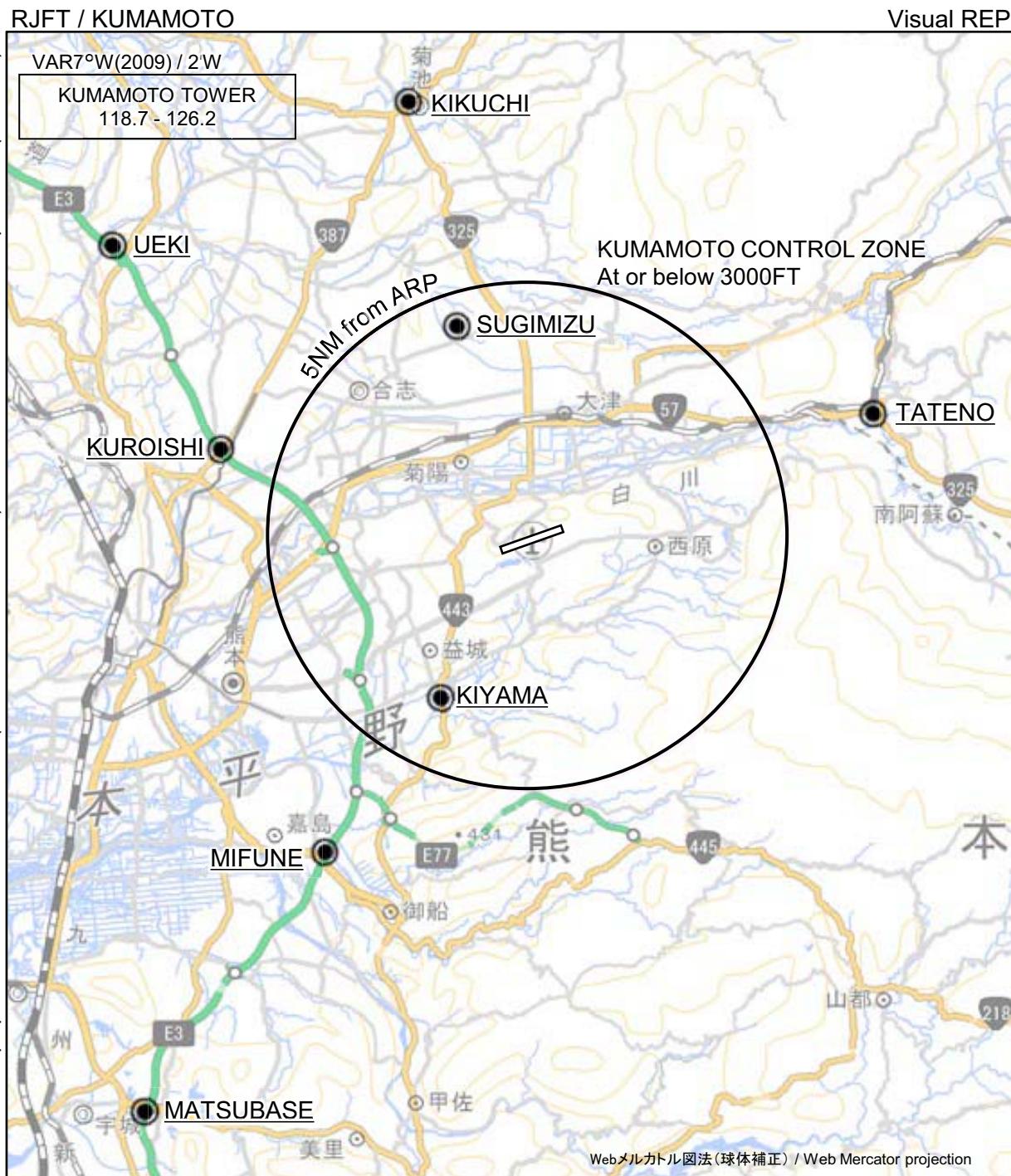
CHANGE : VAR. PROC course. RNAV HLDG established.

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PROFILE OF VALUES OF RADIO ALTIMETER



CHANGE : Map updated. Visual REP established (KIKUCHI, MATSUBASE). Position of Visual REP in the plan view (TATENO).



※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).

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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

