

## AD 2 AERODROMES

## RJOH AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## RJOH - MIHO

## RJOH AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	352936N/1331421E
2	Direction and distance from (city)	7.5nm NW YONAGO
3	Elevation/ Reference temperature	13ft / -
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	Nil
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Japan Air Self Defense Force. PUBLIC AD.
7	Types of traffic permitted(IFR/ VFR)	IFR/VFR
8	Remarks	Miho Airport Office(CAB) 2064-Sainokami-cho, Sakaiminato-city, Tottori, 684-0055 Japan Tel: 0859(45)6114, Fax: 0859(47)2050

## RJOH AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	INTL SKED FLT hours only
3	Health and sanitation	INTL SKED FLT hours only
4	AIS Briefing Office	H24(CAB:Nil)
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24(KANSAI)
7	ATS	H24
8	Fuelling	2200-1300
9	Handling	2200-1300
10	Security	Scheduled flight only
11	De-icing	Nil
12	Remarks	HR of service at CAB OPS section 2200 - 1300(Daily)

**RJOH AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	Deal with the weight thing to a Boeing 767-300 type
2	Fuel/ oil types	Fuel Grades : (CIV)JET A-1, (JSDF) JP-4, JP-4A
3	Fuelling facilities/ capacity	Fuel truck refueling(CIV)
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

**RJOH AD 2.5 PASSENGER FACILITIES**

1	Hotels	Nil
2	Restaurants	AVBL
3	Transportation	Railways, Buses and Taxis
4	Medical facilities	Nil
5	Bank and Post Office	Nil
6	Tourist Office	Information desk
7	Remarks	Nil

**RJOH AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	AD category for fire fighting	To be issued later
2	Rescue equipment	To be issued later
3	Capability for removal of disabled aircraft	To be issued later
4	Remarks	Nil

**RJOH AD 2.7 SEASONAL AVAILABILITY-CLEARING**

1	Types of clearing equipment	Snow remove equipments (JSDF):To be issued later *(CAB): Sprinkler equipment x 1 , Snow plow X 2, Tractor shovel X 1
2	Clearance priorities	To be issued later
3	Remarks	*For B1, B2 TWY and CIVIL APRON

**RJOH AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1	Apron surface and strength	Civil apron : PCN55/R/B/X/T
2	Taxiway width, surface and strength	MAIN TWY Width : 23m A1, A5 Width : 28.5m A2, A3, A4 Width : 34m B1, B2 Width : 34m, PCN62/F/B/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR  1 352958.57N 1331438.72E 2 352959.40N 1331440.76E 3 353000.23N 1331443.09E 4 353001.25N 1331445.59E 5 353002.09N 1331447.56E
6	Remarks	Nil

**RJOH AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	RWY: RWY 07/25 (Marking) RWY designation, RWY CL, RWY THR, TDZ, RWY side stripe (LGT) REDL, RTHL, RENL, RWY DIST marker LGT  TWY: (Marking) TWY side stripe, RWY HLDG PSN, Mandatory instruction(A1-A5 TWY), TWY CL(B1, B2 TWY) (LGT): TWY edge LGT, TWY CL LGT (B1, B2 TWY), Taxiing guidance sign(A1-A5 TWY and B1, B2 TWY)
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) APN flood LGT

**RJOH AD 2.10 AERODROME OBSTACLES**

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
Nil					

**RJOH AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Associated MET Office	KANSAI
2	Hours of service MET Office outside hours	H24(KANSAI)
3	Office responsible for TAF preparation Periods of validity	KANSAI 30 Hours
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at KANSAI
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S <sub>6</sub> , U <sub>7</sub> , U <sub>85</sub> , U <sub>5</sub> , U <sub>3</sub> , U <sub>25</sub> , U <sub>2</sub> /T <sub>r</sub> , P <sub>S</sub> , P <sub>5</sub> , P <sub>3</sub> , P <sub>25</sub> , P <sub>SWE</sub> , P <sub>SWF</sub> , P <sub>SWG</sub> , P <sub>SWI</sub> , P <sub>SWM</sub> , P <sub>SW</sub> (domestic), E, C, W <sub>E</sub> , W <sub>F</sub> , W <sub>G</sub> , W <sub>I</sub> , W, N
8	Supplementary equipment available for providing information	Doppler Radar for Airport Weather (See below figure)
9	ATS units provided with information	TWR, APP
10	Additional information (limitation of service, etc.)	Observation is made by the Ministry of Defense.

## Airspace for the advisory service concerning low level wind shear



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL

LOWER LIMIT : FIELD ELEV LEVEL

## RJOH AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
07	063.74°	2500×45	PCN 70/F/A/X/T SW 82000kg (180779lbs) DW 89000kg (196211lbs)	Nil	THR ELEV: 9.3ft TDZ ELEV: 10.8ft
25	243.74°	2500×45	DTW 175000kg (385809lbs) TTTW 217000kg (478403lbs) Asphalt Concrete	Nil	THR ELEV: 20.4ft TDZ ELEV: 20.4ft
Slope of RWY		Strip Dimensions(M)	Remarks		
7		10	12		
See AD2.24 AD CHART		2620×300 2620×300	RWY Grooving:2500×30m		

## RJOH AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
07	2500	2500	2500	2500	Nil
25	2500	2500	2500	2500	Nil

## RJOH AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
07	SALS (*1) 420m		PAPI 3.0°/LEFT 422m 65.6ft	Nil	Nil			Nil (*2)
25	PALS (CAT I) 900m		PAPI 3.0°/LEFT 419m 66.0ft	Nil	Nil			Nil (*2)
Remarks								
10								
SALS with APCH LGT beacon(600m and 900m FM RWY 07 THR)(*1) Overrun area edge LGT(LEN:60M, Color:Red)(*2) CGL for RWY 07								

**RJOH AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

1	ABN/IBN location, characteristics and hours of operation	ABN: 352959N/1331354E, White/Green EV10sec, HO
2	LDI location and LGT Anemometer location and LGT	Nil
3	TWY edge and center line lighting	TWY edge LGT: Blue(B1, B2 TWY) TWY CL LGT: Green(B1, B2 TWY)
4	Secondary power supply/ switch-over time	10 sec :TWY edge LGT(B1, B2 TWY), TWY CL LGT(B1, B2 TWY)
5	Remarks	WDI LGT, OBST LGT

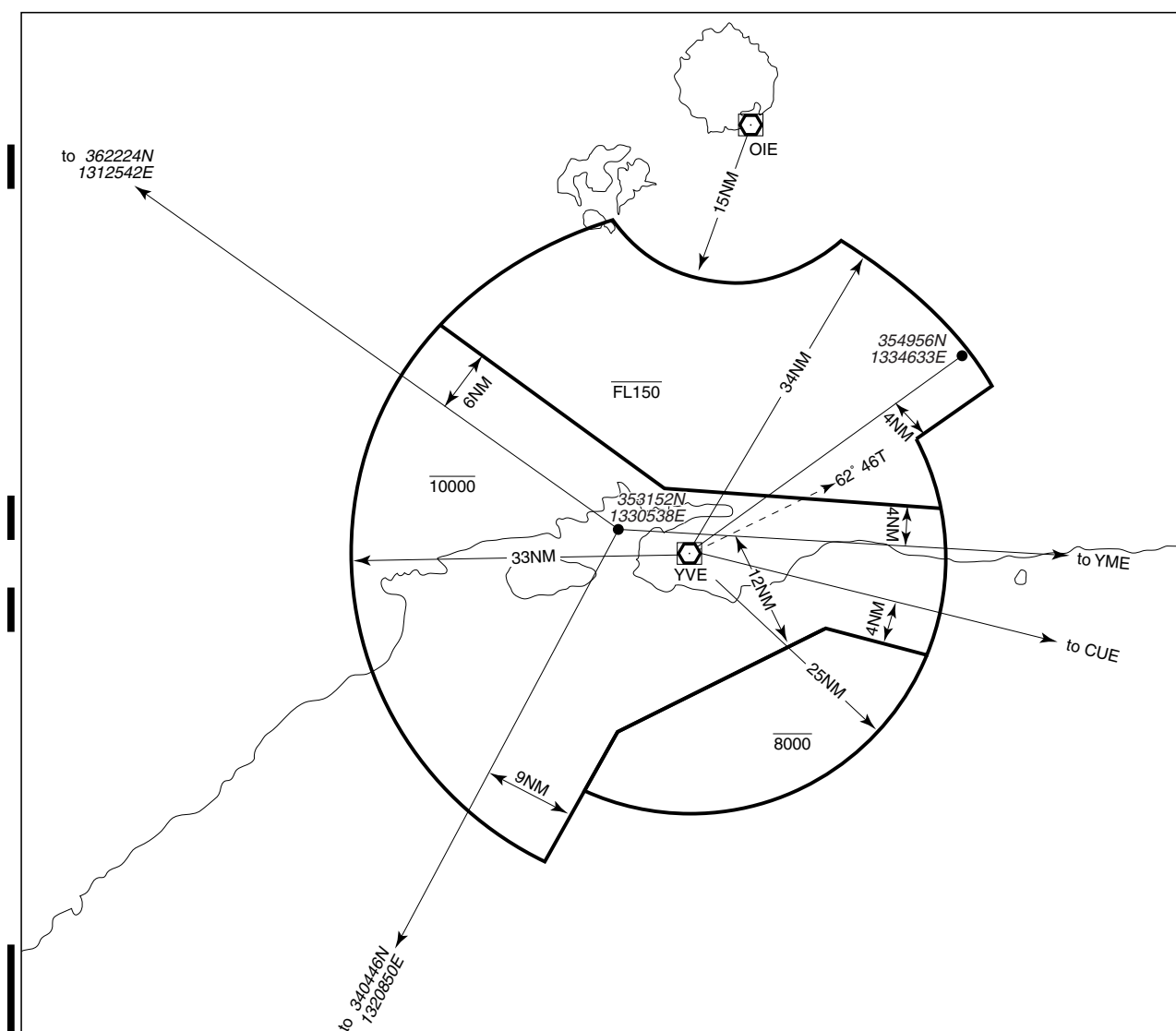
**RJOH AD 2.16 HELICOPTER LANDING AREA**

Nil
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## RJOH AD 2.17 ATS AIRSPACE

Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
MIHO CTR	Area within radius of 5nm of MIHO ARP(35°30'N133°14'E)	3500 or below	D	MIHO TOWER En	
MIHO ACA	See below figure				

美保進入管制区  
Miho Approach Control Area



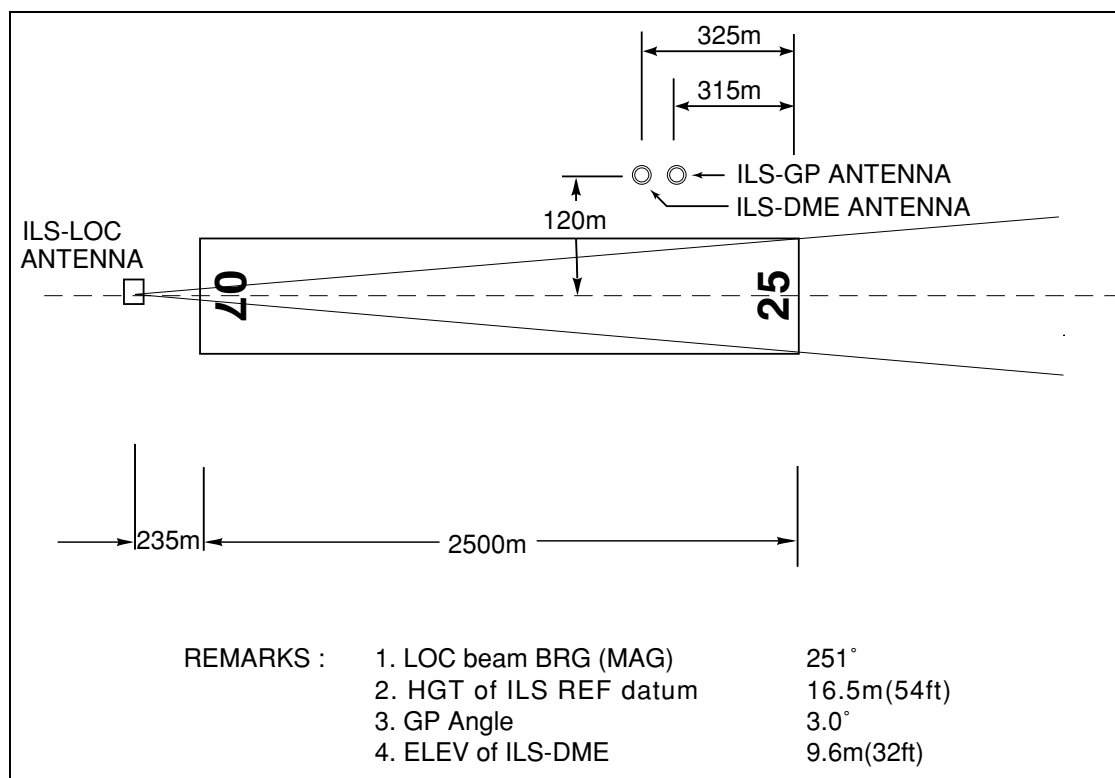


## RJOH AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP/ASR	Miho Approach/ Miho Radar	120.1MHz 125.4MHz 258.2MHz 317.8MHz 121.5MHz(E) 243.0MHz(E)	H24	ASR SERVICE 2200-1200 Other time 1HR PN
DEP	Miho Departure	120.1MHz 125.4MHz 258.2MHz 317.8MHz 121.5MHz(E) 243.0MHz(E)	2200 - 1200 Other time 1HR PN	
TWR	Miho Tower	236.8MHz 126.2MHz 302.4MHz 247.0MHz(1)(2) 123.1MHz(1)(2) 118.0MHz 243.0MHz(E) 121.5MHz(E)	H24	(1) For Rescue only. (2) AVBL on request.
GND	Miho Ground	275.8MHz 118.0MHz	H24	
MET	Miho Metro	344.6MHz	2030 - 1130 DLY  except 2030 FRI - 1130 SAT, 2030 SAT - 1130 SUN, and HOL	Pilot forecaster SER(MIL)
GCA-ASR PAR	Miho Radar	335.6MHz 270.8MHz 134.1MHz 125.3MHz 228.2MHz 250.4MHz 289.4MHz 316.0MHz 141.8MHz 243.0MHz(E) 121.5MHz(E)	2200 - 1200 Other time 1HR PN	ASR RWY 07/25 PAR RWY 07/25 Glide path 3.0°

## RJOH AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid (VOR declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
TACAN	JET	1201MHz (CH-114X)	H24	353151.77N/ 1330538.72E	1696ft	TACAN AZM unusable 010° BTN 10nm and 20nm BLW 12000ft. 167° BTN 10nm and 20nm BLW 12000ft.
VOR (7°W / 2009)	YVE	114.1MHz	H24	352936.37N/ 1331357.10E		
DME	YVE	1175MHz (CH-88X)	H24	352936.37N/ 1331357.10E	39ft	
ILS-LOC 25	IYV	108.95MHz	2200 - 1300	352915.00N/ 1331328.21E		LOC: 235m away FM RWY 07 THR, BRG (MAG) 251°.
ILS-GP 25	-	329.15MHz	2200 - 1300	352952.93N/ 1331452.43E		GP:315m(1033ft) inside FM RWY 25 THR. 120m(394ft) N of RCL HGT of ILS Ref Datum 16.5m(54ft). Angle 3.0°
ILS-DME 25	IYV	1113MHz (CH-26Y)	2200 - 1300	352952.79N/ 1331452.07E	32ft	DME:325m(1066ft) inside FM RWY 25 THR. 120m(394ft) N of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based.



## RJOH AD 2.20 LOCAL TRAFFIC REGULATIONS

### 1. Airport regulations

Civil transient aircraft:

- 1) PPR to CAB Miho Airport Office(0859-45-6114) for parking.
- 2) 2weeks PPR to 3rd Tactical Air Lift Wing Defense Division(0859-45-0211 EXT 232 or 236) for landing.  
MON - FRI 2300-0800(except holiday)

### 2. Taxiing to and from stands

Nil

### 3. Parking area for small aircraft(General aviation)

Nil

### 4. Parking area for helicopters

Nil

### 5. Apron - taxiing during winter conditions

Nil

### 6. Taxiing - limitations

Nil

### 7. School and training flights - technical test flights - use of runways

Nil

### 8. Helicopter traffic - limitation

Nil

### 9. Removal of disabled aircraft from runways

Nil

## RJOH AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

## RJOH AD 2.22 FLIGHT PROCEDURES

## 1. TAKE OFF MINIMA

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	VIS	RVR	VIS	RVR	VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	07	A,B,C,D	-	-	400m	400m	-	500m
	25	A,B,C,D						
OTHER	07	A,B,C,D	AVBL LDG MINIMA					
	25	A,B,C,D						

## 2. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE

## PAR RWY 07

MINIMA		THR ELEV:9		AD ELEV: 13	
CAT			CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	VIS	
A	211(202)	750	460(447)	1600	
B			470(457)		
C					2400
D			570(557)		3200

## PAR RWY 25

MINIMA		THR ELEV:20		AD ELEV: 13	
CAT			CIRCLING		
	DA(H)	RVR/ CMV	MDA(H)	VIS	
A	220(200)	750	460(447)	1600	
B			470(457)		
C				2400	
D			570(557)		3200

## ASR RWY 07

MINIMA		THR ELEV:9	AD ELEV: 13	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	380(367)	1200	460(447)	1600
B		1300	470(457)	
C		1400		2400
D		1600	570(557)	3200

## ASR RWY 25

MINIMA		THR ELEV:20		AD ELEV: 13	
CAT			CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS	
A	460(447)	900	460(447)	1600	
B		1000	470(457)		
C					2400
D		1400	570(557)	3200	

## 3. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with Miho Radar/GCA are lost for 1 minute or 5 seconds(PAR)/ 15 seconds(ASR) on final approach, squawk Mode A/3 Code 7600 and;

- (I) 1. Contact Miho Tower.  
 2. If unable, proceed in accordance with Visual Flight Rules.  
 3. If unable, proceed to YVE VOR/DME at last assigned altitude or 4,000ft whichever is higher, and execute instrument approach
- (II) Procedures other than above will be issued when situation required.

## RJOH AD 2.23 ADDITIONAL INFORMATION

Nil

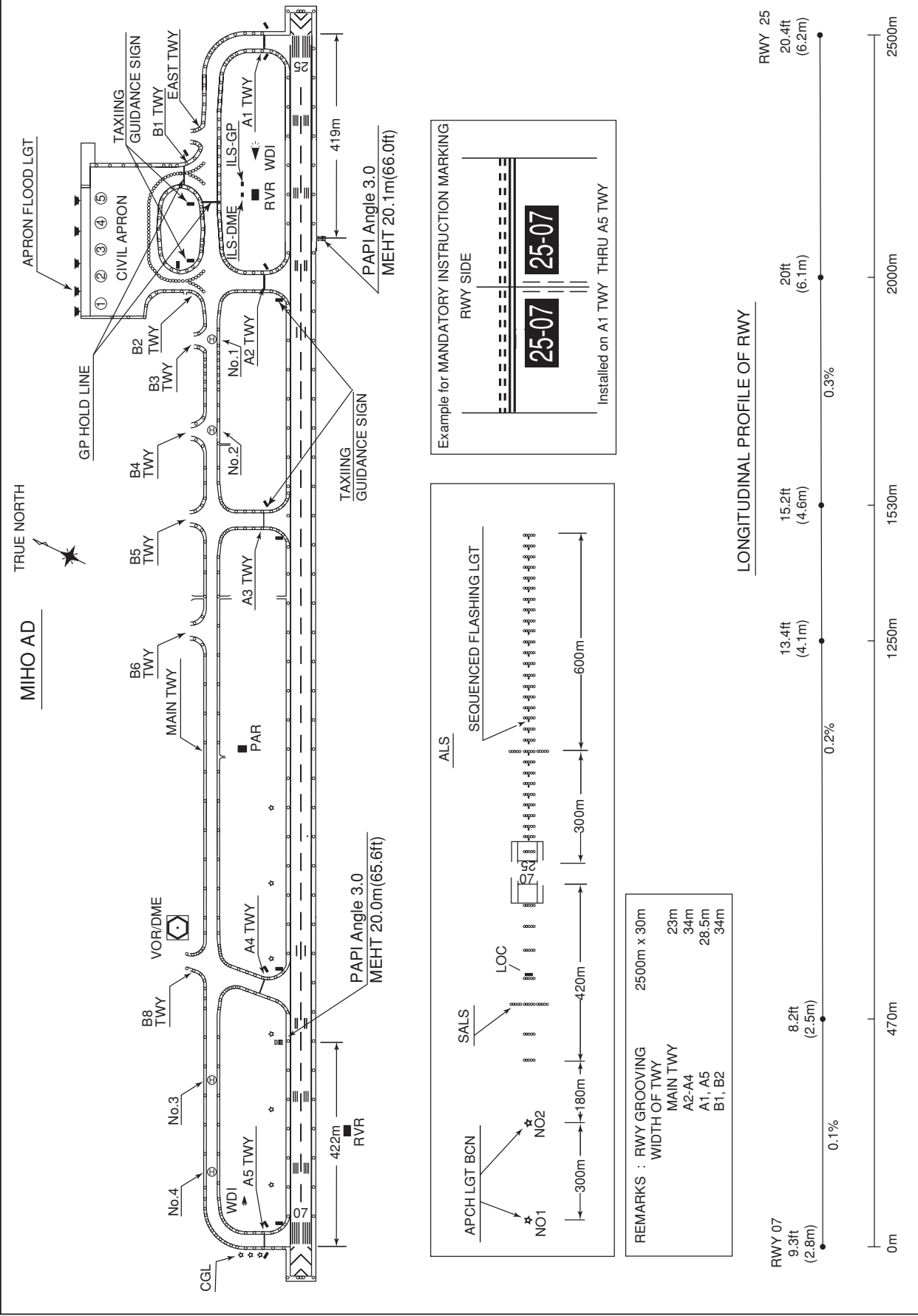
## RJOH AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart  
Standard Departure Chart - Instrument (MIHO)  
Standard Departure Chart - Instrument (YONAGO)  
Standard Departure Chart - Instrument (INABA)  
Standard Departure Chart - Instrument (SOUTH)  
Standard Departure Chart - Instrument (DOZEN)  
Standard Departure Chart - Instrument (STAGE-RNAV)  
Standard Departure Chart - Instrument (USAGI-RNAV)  
Standard Departure Chart - Instrument (KITARO-RNAV)  
Standard Arrival Chart - Instrument (MIHO)  
Standard Arrival Chart - Instrument (OROTI)  
Standard Arrival Chart - Instrument (GAINA, KYURI-RNAV)  
Instrument Approach Chart (ILS Z or LOC Z RWY25)  
Instrument Approach Chart (ILS Y or LOC Y RWY25)  
Instrument Approach Chart (ILS X or LOC X RWY25)  
Instrument Approach Chart (VOR Z RWY25)  
Instrument Approach Chart (VOR Y RWY25)  
Instrument Approach Chart (VOR X RWY25)  
Instrument Approach Chart (VOR Z RWY07)  
Instrument Approach Chart (VOR Y RWY07)  
Instrument Approach Chart (VOR X RWY07)  
Instrument Approach Chart (TACAN A)  
Instrument Approach Chart (RNAV(GNSS) RWY07)  
Other Chart (MVA CHART)

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RJOH / MIHO

AD CHART



STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

SID

MIHO REVERSAL FIVE DEPARTURE

RWY 07 : Climb RWY HDG to 900FT, ...

RWY 25 : Climb RWY HDG to 500FT, ...

...turn left HDG026° to intercept and proceed via JET R071 to JET 23.0DME,  
turn left direct to JET TACAN.

Cross JET R071/19.0DME at or below 10000FT.

Note RWY25 : 5.0% climb gradient required up to 1200FT.

OBST ALT 1182FT located at 4.33NM 016° FM end of RWY25.

MIHO REVERSAL FIVE DEPARTURE





## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

SID

YONAGO REVERSAL SIX DEPARTURE

RWY 07 : Climb RWY HDG to 900FT, turn left ...

RWY 25 : Climb RWY HDG to 500FT, turn left HDG015° ...

... to intercept and proceed via YVE R060 to YVE 21.0DME, turn left direct to  
YVE VOR/DME.

Cross YVE R060/17.0DME at or below 10000FT.

Note RWY25 : 5.0% climb gradient required up to 700FT.

OBST ALT 1182FT located at 6.23NM 214° FM end of RWY25.

YONAGO REVERSAL SIX DEPARTURE

## STANDARD DEPARTURE CHART -INSTRUMENT

RJOH / MIHO

SID and TRANSITION

INABA FOUR DEPARTURE

RWY07 : Climb RWY HDG to 900FT, turn left ...

RWY25 : Climb RWY HDG to 500FT, turn left HDG015° ...

... to intercept and proceed via YVE R060 to INABA.

Cross YVE R060/17.0DME (TRE R292) at or below 10000FT.

Cross INABA at or above 8000FT.

Note RWY25 : 5.0% climb gradient required up to 700FT.

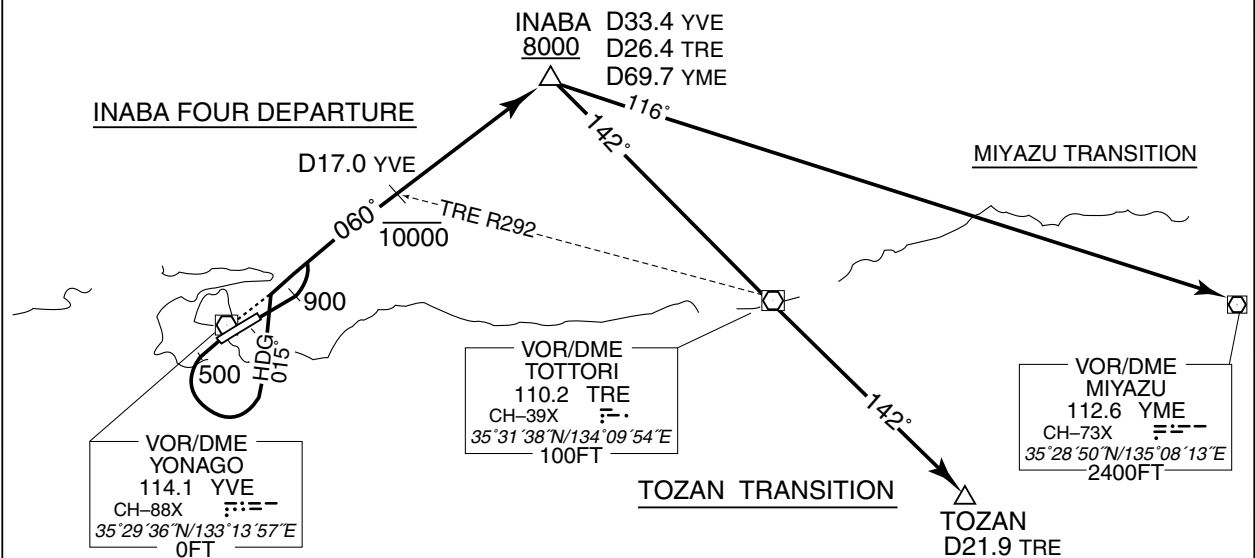
OBST ALT 1182FT located at 6.23NM 214° FM end of RWY25.

TOZAN TRANSITION

From over INABA, proceed via TRE R322 to TRE VOR/DME, via TRE R142 to TOZAN.

MIYAZU TRANSITION

From over INABA, proceed via YME R296 to YME VOR/DME.



## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

SID and TRANSITON

SOUTH SEVEN DEPARTURE

RWY07 : Climb RWY HDG to 500FT, turn right HDG216° ...

RWY25 : Climb RWY HDG to 500FT, turn left HDG126° ...

... to intercept and proceed via YVE R171 to NIIMI.

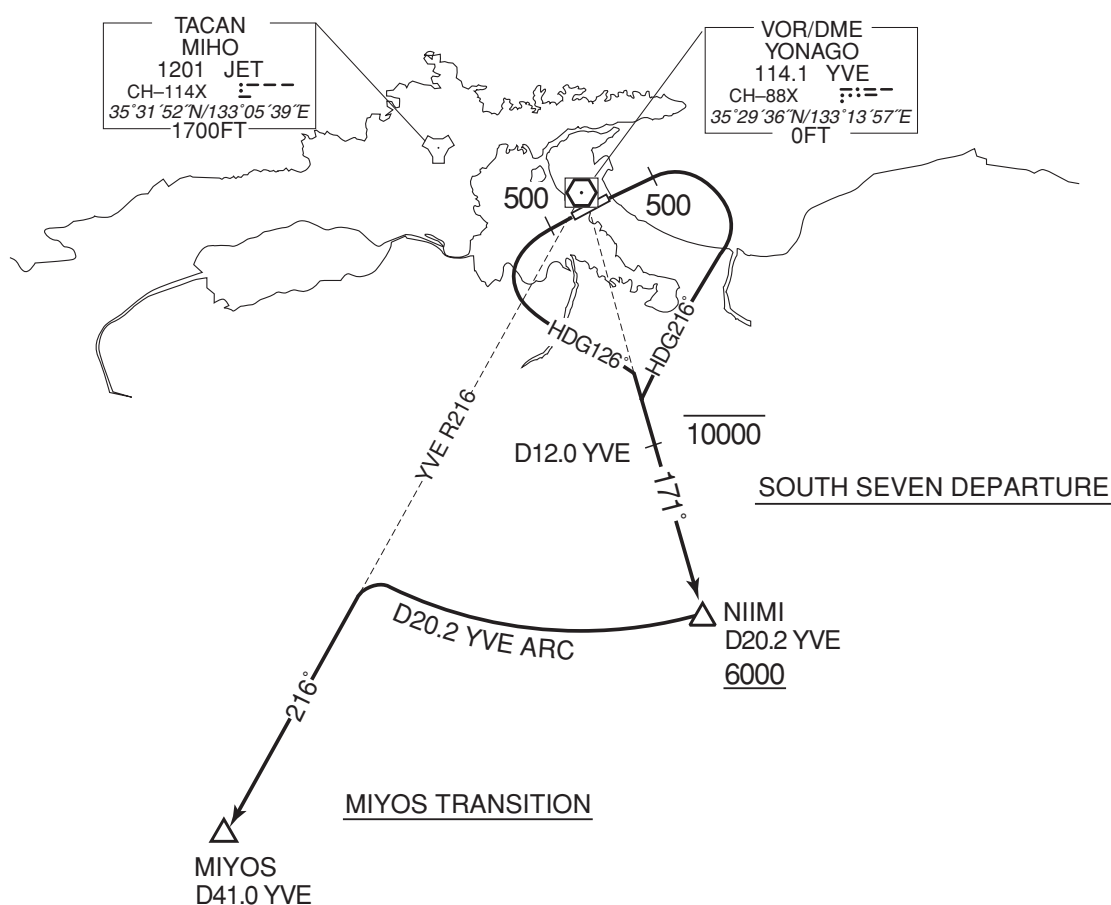
Cross YVE R171/12.0DME at or below 10000FT,  
cross NIIMI at or above 6000FT.

Note RWY25 : 5.0% climb gradient required up to 700FT.

OBST ALT 1182FT located at 6.23NM 214° FM end of RWY25.

MIYOS TRANSITION

From over NIIMI, proceed via YVE 20.2DME clockwise ARC to intercept and proceed via YVE R216 to MIYOS.



CHANGE : MIHO TACAN(JET)

STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

SID

DOZEN FIVE DEPARTURE

RWY 07 : Climb RWY HDG to 1000FT, turn left HDG323°...

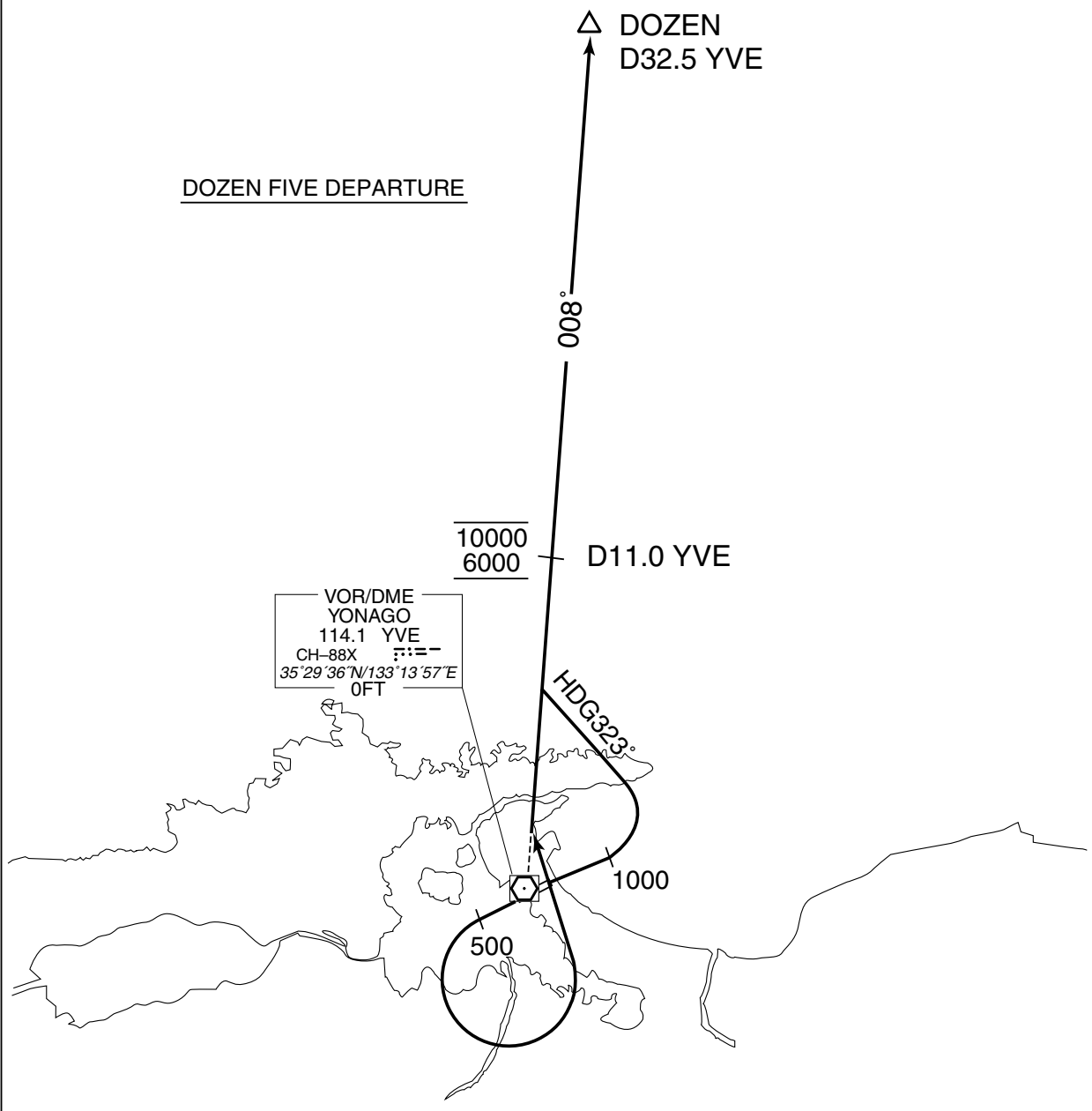
RWY 25 : Climb RWY HDG to 500FT, turn left ...

... to intercept and proceed via YVE R008 to DOZEN.

Cross YVE R008/11.0DME between 6000FT and 10000FT.

Note RWY25 : 5.0% climb gradient required up to 1400FT.

OBST ALT 1247FT located at 4.32NM 015° FM end of RWY25.



## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV SID

STAGE ONE DEPARTURE		RNAV1
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. 2 ) RADAR service required.	Critical DME	RWY07 : OIE : 12.6NM to STAGE - STAGE RWY25 : JET : 10.0NM to OH501 - 6.0NM to OH501 OIE : 6.0NM to OH501 - 4.0NM to OH501 OH501 - OH701 12.6NM to STAGE - STAGE
	DME GAP	RWY07 :DER - 8.7NM to OH701 RWY25 :DER - 10.0NM to OH501
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8°W (2012)

STAGE ONE DEPARTURESTAGE ONE DEPARTURE

RWY07 : Climb on HDG071° at or above 500FT, direct to OH701, to OH703 at or below 10000FT, to STAGE.

RWY25 : Climb on HDG251° at or above 500FT, turn left direct to OH501, to OH 701, to OH703 at or below 10000FT, to STAGE.

NOTE RWY25 : 5.0% climb gradient required up to 700FT.  
 OBST ALT 1182FT located at 6.23NM 214° FM end of RWY25.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV SID

STAGE 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	—	—	071 (063.9)	-7.6	—	—	+500	—	—	RNAV1
002	DF	OH701	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	OH703	—	329 (321.1)	-7.6	6.6	—	-10000	—	—	RNAV1
004	TF	STAGE	—	267 (259.6)	-7.6	31.5	—	—	—	—	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	—	—	251 (243.9)	-7.6	—	—	+500	—	—	RNAV1
002	DF	OH501	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	OH701	—	019 (011.2)	-7.6	8.2	—	—	—	—	RNAV1
004	TF	OH703	—	329 (321.1)	-7.6	6.6	—	-10000	—	—	RNAV1
005	TF	STAGE	—	267 (259.6)	-7.6	31.5	—	—	—	—	RNAV1

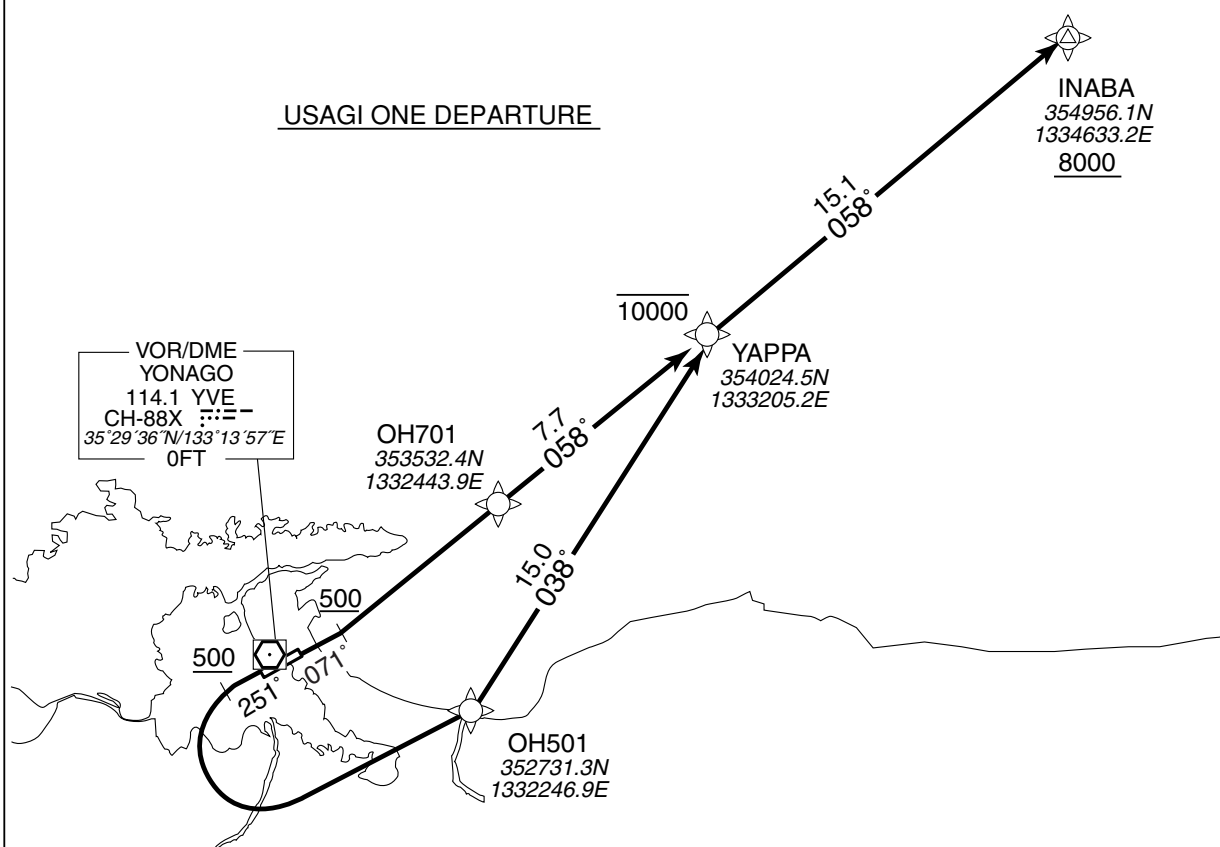
## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV SID

USAGI ONE DEPARTURE		RNAV1
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. 2 ) RADAR service required.	Critical DME	RWY25 : JET : 10.0NM to OH501 - 6.0NM to OH501 OIE : 6.0NM to OH501 - 4.0NM to OH501 OH501 - 6.0NM to YAPPA
	DME GAP	RWY07 : DER - 8.7NM to OH701 RWY25 : DER - 10.0NM to OH501
	Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8°W (2012)

USAGI ONE DEPARTUREUSAGI ONE DEPARTURE

RWY07 : Climb on HDG071° at or above 500FT, direct to OH701, to YAPPA at or below 10000FT, to INABA at or above 8000FT.

RWY25 : Climb on HDG251° at or above 500FT, turn left direct to OH501, to YAPPA at or below 10000FT, to INABA at or above 8000FT.

NOTE RWY25 : 5.0% climb gradient required up to 700FT.

OBST ALT 1182FT located at 6.23NM 214° FM end of RWY25.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV SID

USAGI 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	—	—	071 (063.9)	-7.6	—	—	+500	—	—	RNAV1
002	DF	OH701	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	YAPPA	—	058 (050.8)	-7.6	7.7	—	-10000	—	—	RNAV1
004	TF	INABA	—	058 (050.9)	-7.6	15.1	—	+8000	—	—	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	—	—	251 (243.9)	-7.6	—	—	+500	—	—	RNAV1
002	DF	OH501	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	YAPPA	—	038 (030.4)	-7.6	15.0	—	-10000	—	—	RNAV1
004	TF	INABA	—	058 (050.9)	-7.6	15.1	—	+8000	—	—	RNAV1

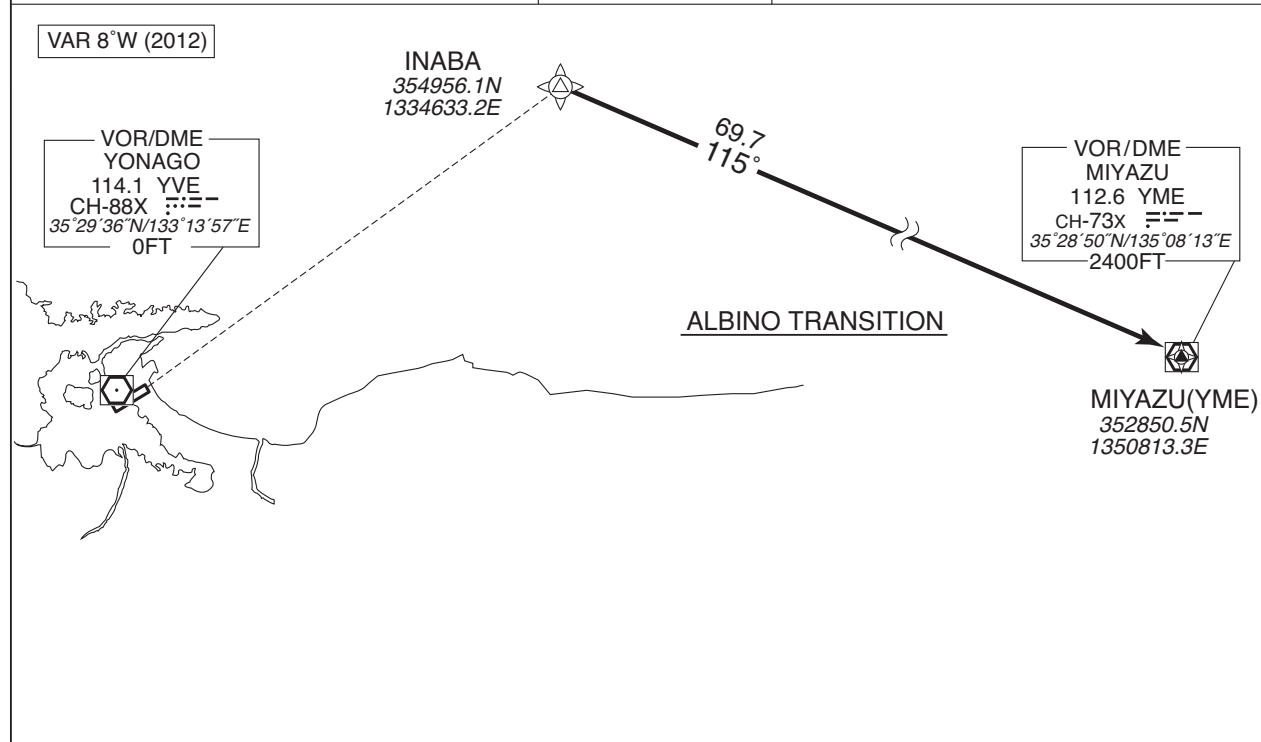


## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV TRANSITION

ALBINO TRANSITION			RNAV1
Note 1 ) DME/DME/IRU or GNSS required. 2 ) RADAR service required.	Critical DME	TRE : 42NM to MIYAZU - 40NM to MIYAZU OKT : 26NM to MIYAZU - 25NM to MIYAZU STD : 5NM to MIYAZU - 1NM to MIYAZU	
	DME GAP	—	
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1	

ALBINO TRANSITION

From INABA, to YME.

ALBINO 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	INABA	—	—	-7.6	—	—	—	—	—	RNAV1
002	TF	YME	—	115 (107.2)	-7.6	69.7	—	—	—	—	RNAV1

RJOH / MIHO						RNAV TRANSITION					
<b>KOMATSU TRANSITION</b>								<b>RNAV1</b>			
NOTE 1 ) DME/DME/IRU or GNSS required. 2 ) RADAR service required.						Critical DME		CBE : 3.0NM to KMC - KMC			
						DME GAP		-			
						Inappropriate Nav aids		See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1			

VAR 8°W (2016)

The diagram illustrates the KOMATSU TRANSITION route. It begins at waypoint INABA (354956.1N, 1334633.2E, 8000 FT), proceeds 15.1 NM on a bearing of 098° to waypoint KUMIK (354959.9N, 1340510.3E, FL160). From KUMIK, the route continues 117.4 NM on a bearing of 081° to the final destination, KOMATSU(KMC) (362347.3N, 1362415.3E). A VORTAC station for KOMATSU (CH-57X, 112.0 MHz) is located near the end of the transition, with coordinates 36°23'47"N/136°24'15"E. The route is shown over a map of Japan, specifically the Kanto region.

<u><b>KOMATSU TRANSITION</b></u>											
From INABA at or above 8000FT, to KUMIK at or above FL160, to KMC.											
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	INABA	—	—	-7.9	—	—	+8000	—	—	RNAV1
002	TF	KUMIK	—	098 (089.7)	-7.9	15.1	—	+FL160	—	—	RNAV1
003	TF	KMC	—	081 (072.6)	-7.9	117.4	—	—	—	—	RNAV1

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV SID

## KITARO ONE DEPARTURE

## RNAV1

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.

2) RADAR service required.

Critical DME

RWY07

TRE : 1.0NM to OH703 – 7.0NM to MIHOU

RWY25

JET : 10.0NM to OH501 – 6.0NM to OH501

OIE : 6.0NM to OH501 – 4.0NM to OH501

OH501 – OH701

TRE : 1.0NM to OH703 – 7.0NM to MIHOU

DME GAP

RWY07 : DER – 8.7NM to OH701

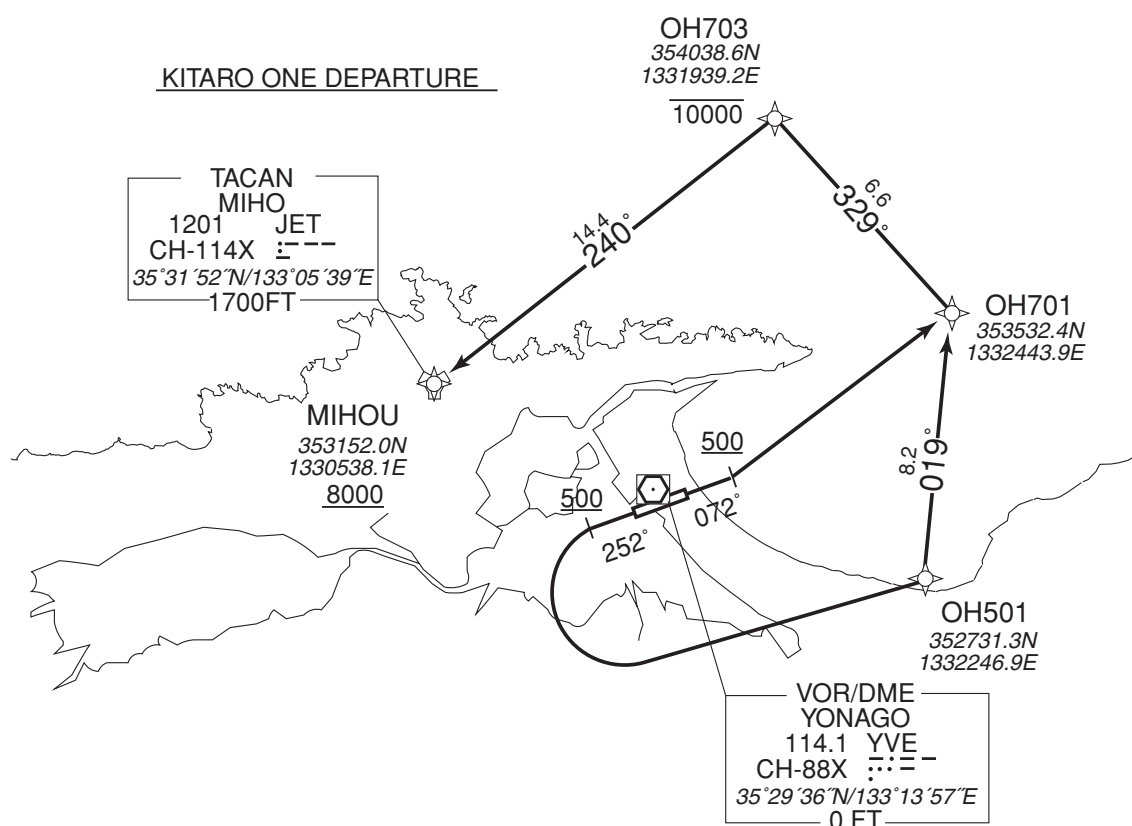
RWY25 : DER – 10.0NM to OH501

Inappropriate Navaids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8°W (2016)

## KITARO ONE DEPARTURE



## KITARO ONE DEPARTURE

RWY07 : Climb on HDG072° at or above 500FT, direct to OH701, to OH703 at or below 10000FT, to MIHOU at or above 8000FT.

RWY25 : Climb on HDG252° at or above 500FT, turn left direct to OH501, to OH701, to OH703 at or below 10000FT, to MIHOU at or above 8000FT.

NOTE RWY25 : 5.0% climb gradient required up to 700FT.

OBST ALT 1182FT located at 6.23NM 214° FM end of RWY25.

CHANGE : MIHO TACAN(JET)

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOH / MIHO

RNAV SID

KITARO 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 (063.9)	-7.9	—	—	+500	—	—	RNAV1
002	DF	OH701	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	OH703	—	329 (321.1)	-7.9	6.6	—	-10000	—	—	RNAV1
004	TF	MIHOU	—	240 (232.5)	-7.9	14.4	—	+8000	—	—	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 (243.9)	-7.9	—	—	+500	—	—	RNAV1
002	DF	OH501	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	OH701	—	019 (011.2)	-7.9	8.2	—	—	—	—	RNAV1
004	TF	OH703	—	329 (321.1)	-7.9	6.6	—	-10000	—	—	RNAV1
005	TF	MIHOU	—	240 (232.5)	-7.9	14.4	—	+8000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJOH / MIHO

STAR

MIHO ARRIVAL

From over YVE VOR/DME, proceed via YVE R060 to YVE 18.0DME,  
turn left, direct to YVE VOR/DME.



## STANDARD ARRIVAL CHART - INSTRUMENT

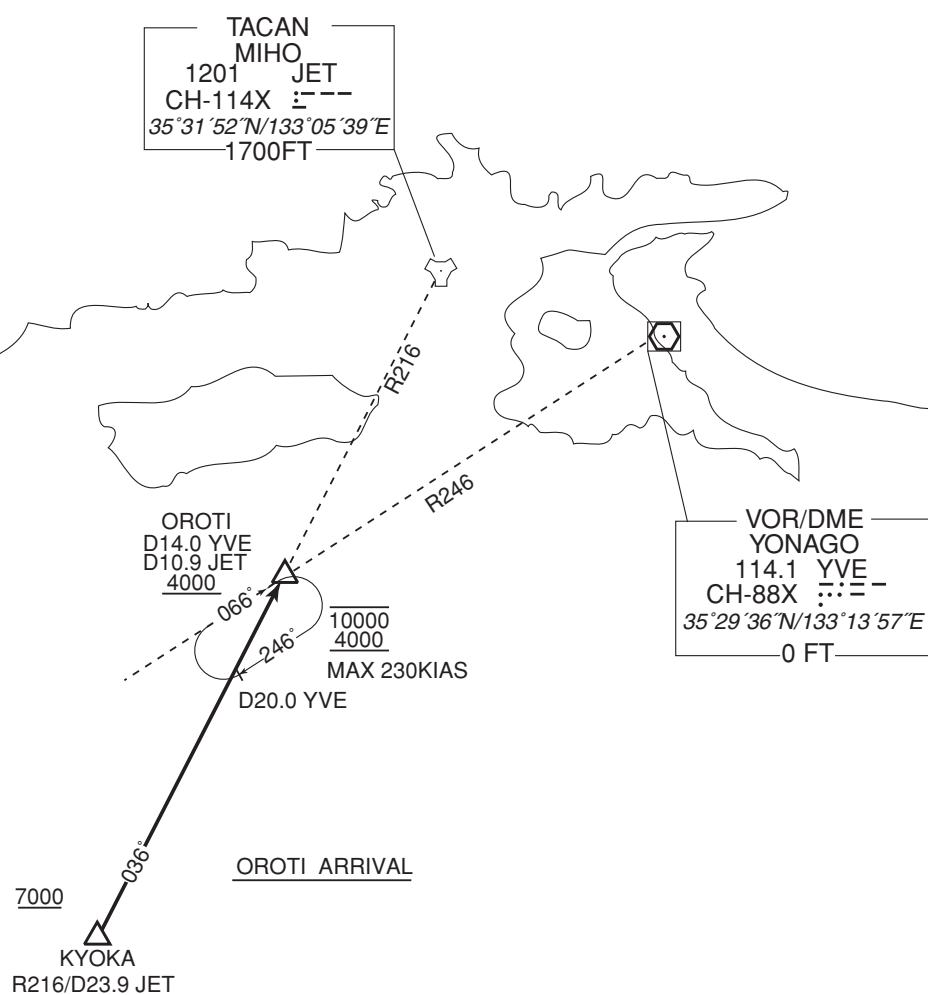
RJOH / MIHO

STAR

OROTI ARRIVAL

From over KYOKA, via JET R216 to OROTI.

Cross KYOKA at or above 7000FT, cross OROTI at or above 4000FT.

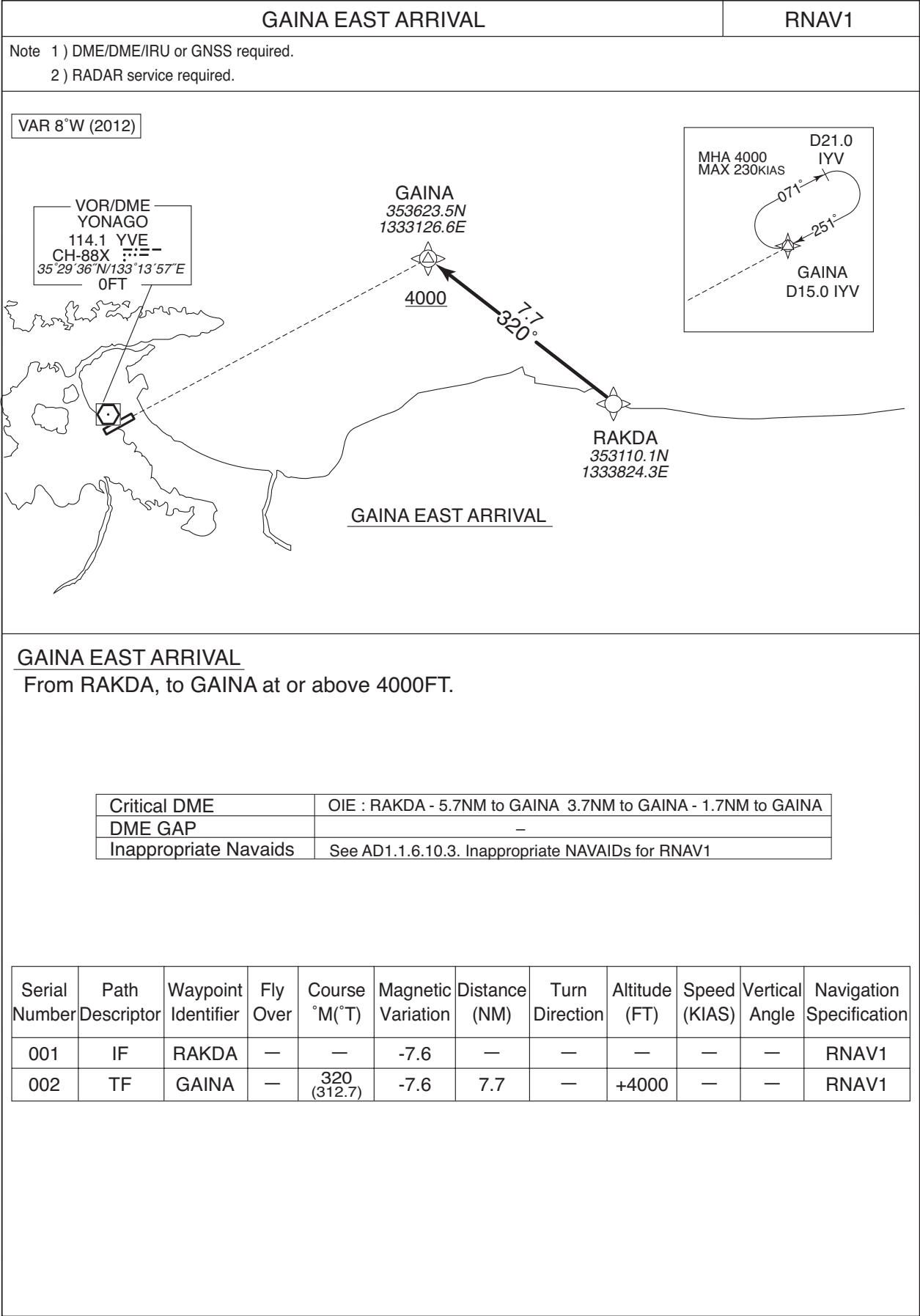


CHANGE : MIHO TACAN(JET)

STANDARD ARRIVAL CHART - INSTRUMENT

RJOH / MIHO

RNAV STAR RWY25



## STANDARD ARRIVAL CHART - INSTRUMENT

RJOH / MIHO

RNAV STAR RWY25

## GAINA WEST ARRIVAL

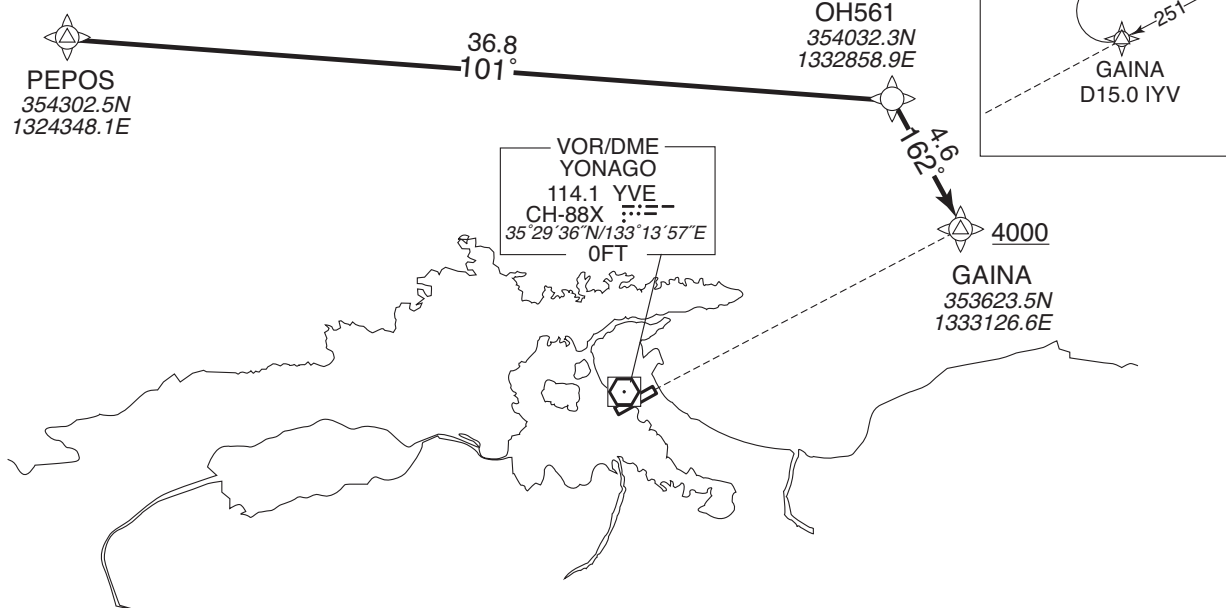
RNAV1

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

2 ) RADAR service required.

VAR 8°W (2012)

## GAINA WEST ARRIVAL



## GAINA WEST ARRIVAL

From PEPOS, to OH561, to GAINA at or above 4000FT.

Critical DME	OIE : PEPOS - 32NM to OH561
DME GAP	—
Inappropriate Nav aids	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	PEPOS	—	—	-7.6	—	—	—	—	—	RNAV1
002	TF	OH561	—	101 (093.7)	-7.6	36.8	—	—	—	—	RNAV1
003	TF	GAINA	—	162 (154.2)	-7.6	4.6	—	+4000	—	—	RNAV1



## STANDARD ARRIVAL CHART - INSTRUMENT

RJOH / MIHO

RNAV STAR RWY07

## KYURI EAST ARRIVAL

RNAV1

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

VAR 8°W (2012)

KYURI EAST ARRIVAL

From RAKDA, to OH762 at or above 5500FT, to OH761 at or above 4000FT, to KYURI at or above 3500FT.

Critical DME	OIE : OH762 - 20NM to OH761 JET : 7NM to OH761 - OH761 4NM to KYURI - 3NM to KYURI YVE : 7NM to OH761 - OH761 4NM to KYURI - KYURI
DME GAP	OH761 - 4NM to KYURI
Inappropriate Nav aids	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	RAKDA	—	—	-7.6	—	—	—	—	—	RNAV1
002	TF	OH762	—	255 (247.3)	-7.6	7.4	—	+5500	—	—	RNAV1
003	TF	OH761	—	255 (247.2)	-7.6	24.4	—	+4000	—	—	RNAV1
004	TF	KYURI	—	342 (334.0)	-7.6	5.4	—	+3500	—	—	RNAV1

## STANDARD ARRIVAL CHART - INSTRUMENT

RJOH / MIHO

RNAV STAR RWY07

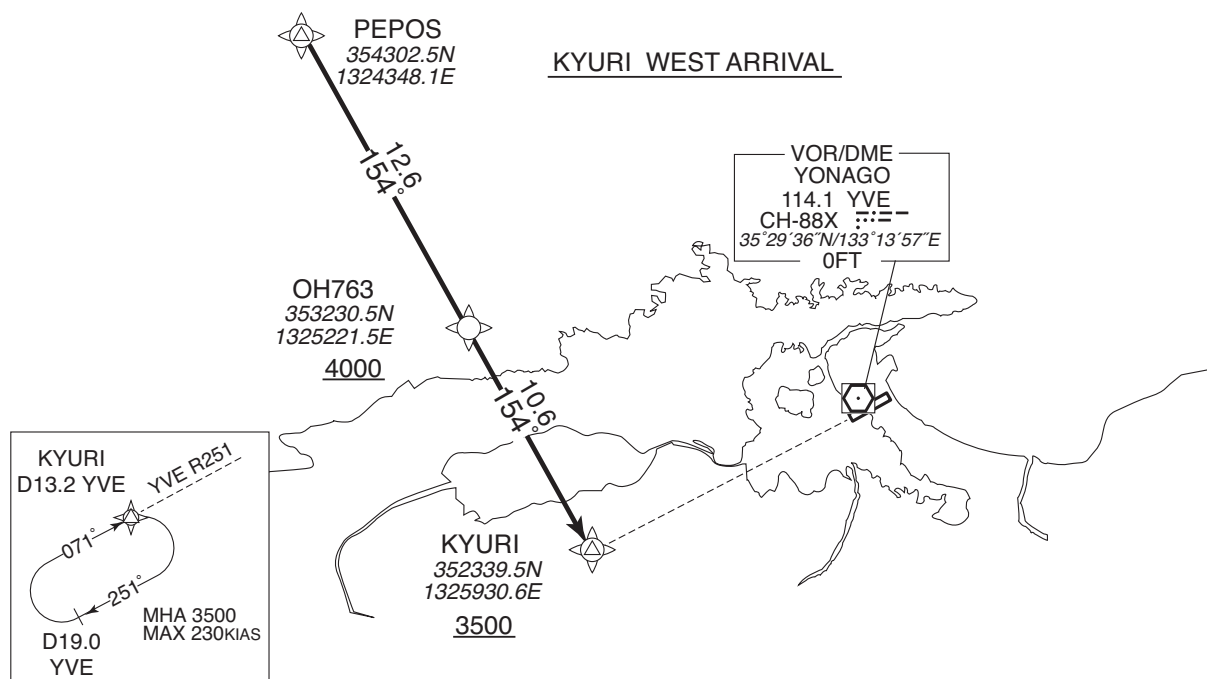
## KYURI WEST ARRIVAL

RNAV1

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

2) RADAR service required.

VAR 8°W (2012)

**KYURI WEST ARRIVAL**

From PEPOS, to OH763 at or above 4000FT, to KYURI at or above 3500FT.

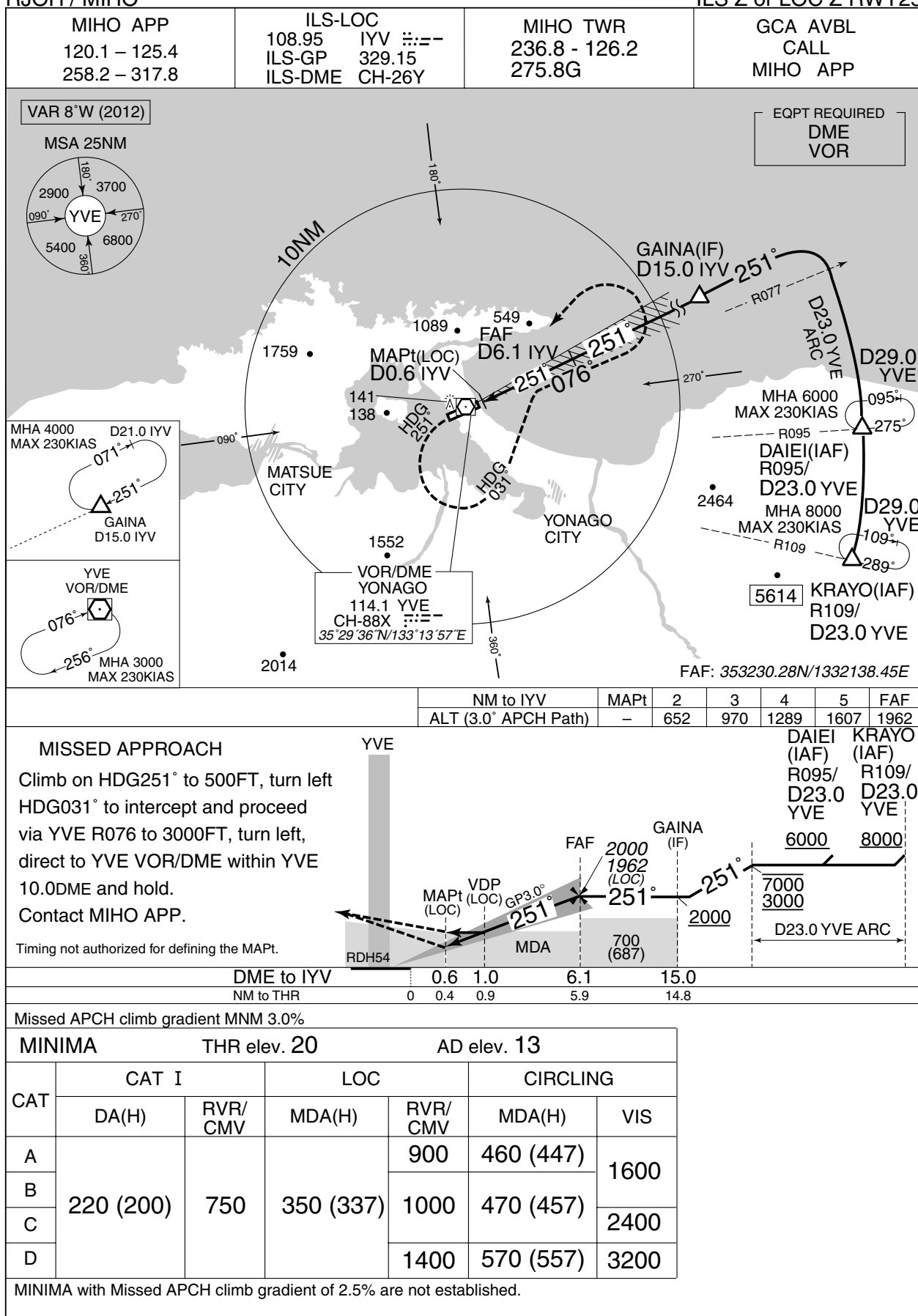
Critical DME	OIE : PEPOS - 1NM to KYURI YVE : 3NM to KYURI - KYURI
DME GAP	—
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

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	PEPOS	—	—	-7.6	—	—	—	—	—	RNAV1
002	TF	OH763	—	154 (146.5)	-7.6	12.6	—	+4000	—	—	RNAV1
003	TF	KYURI	—	154 (146.6)	-7.6	10.6	—	+3500	—	—	RNAV1

## INSTRUMENT APPROACH CHART

RJOH / MIHO

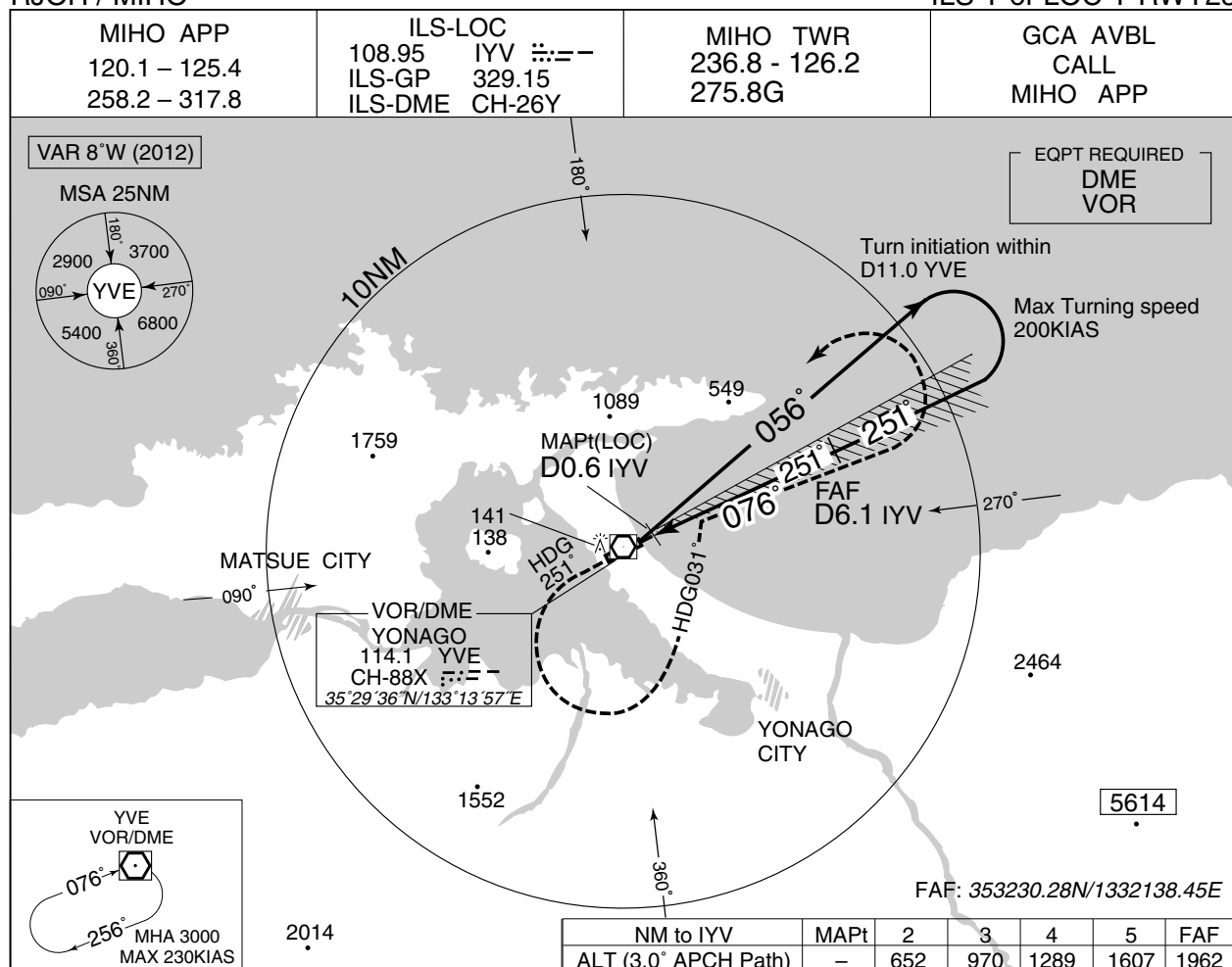
ILS Z or LOC Z RWY25



## INSTRUMENT APPROACH CHART

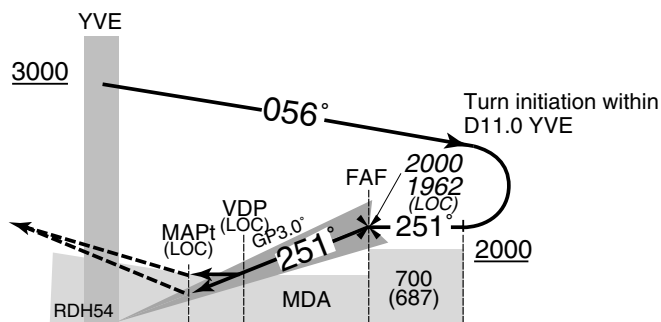
RJOH / MIHO

ILS Y or LOC Y RWY25

**MISSED APPROACH**

Climb on HDG251° to 500FT, turn left HDG031° to intercept and proceed via YVE R076 to 3000FT, turn left, direct to YVE VOR/DME within YVE 10.0DME and hold.  
Contact MIHO APP.

Timing not authorized for defining the MAPt.



DME to IYV

NM to THR

0.6	1.0	6.1
0	0.4	0.9
5.9		

Missed APCH climb gradient MNM 3.0%

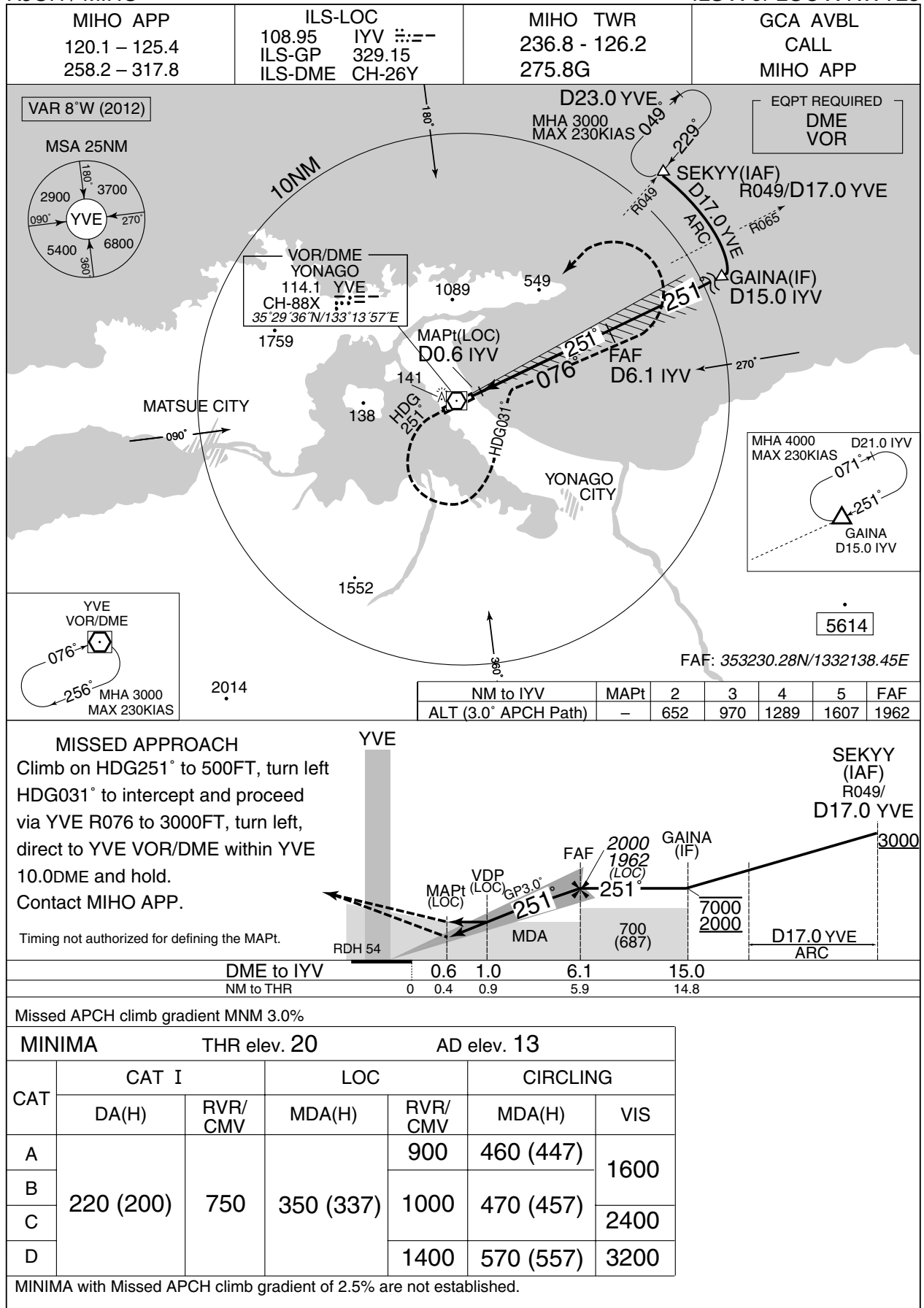
MINIMA		THR elev. 20		AD elev. 13		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	220 (200)	750	350 (337)	900	460 (447)	1600
B				1000	470 (457)	
C					2400	
D				1400		570 (557)

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

## INSTRUMENT APPROACH CHART

RJOH / MIHO

ILS X or LOC X RWY25

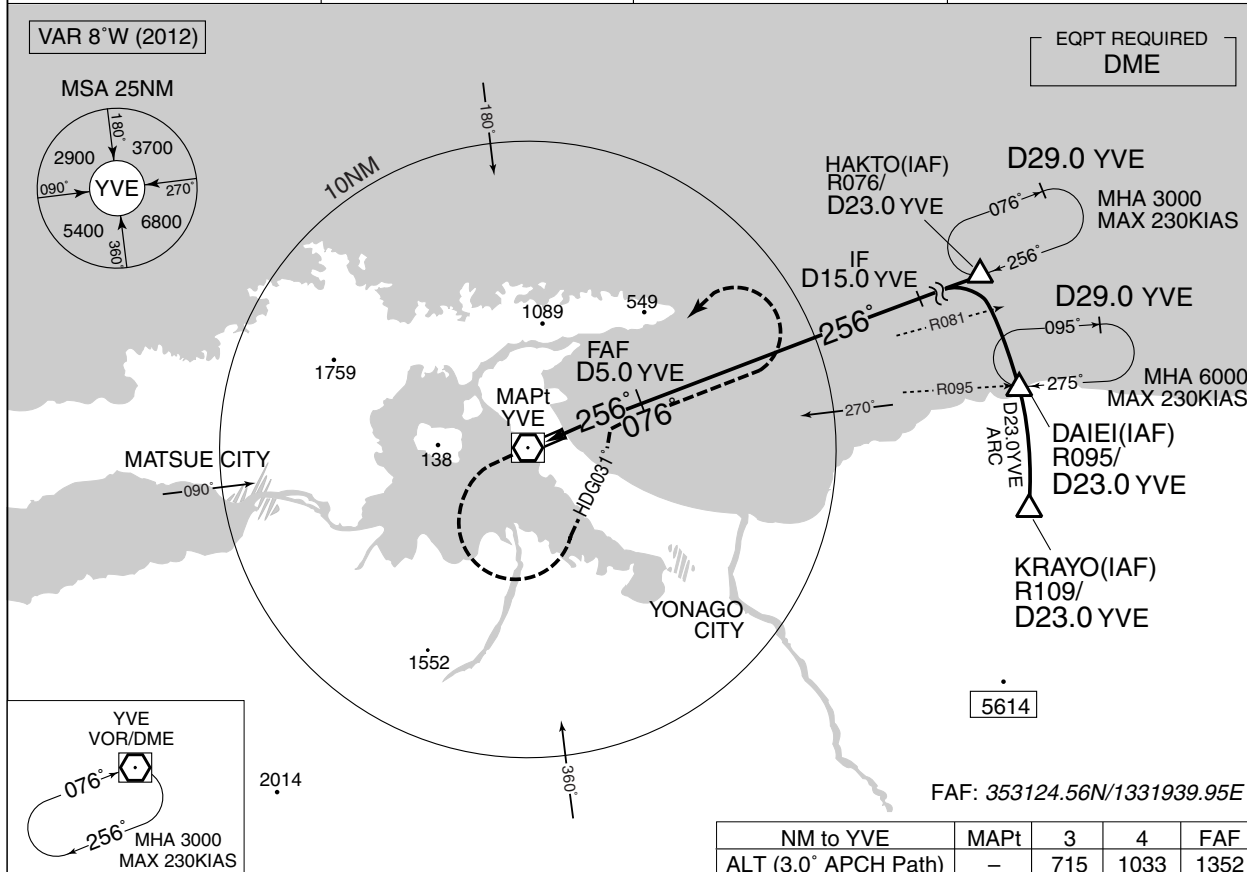


## INSTRUMENT APPROACH CHART

RJOH / MIHO

VOR Z RWY25

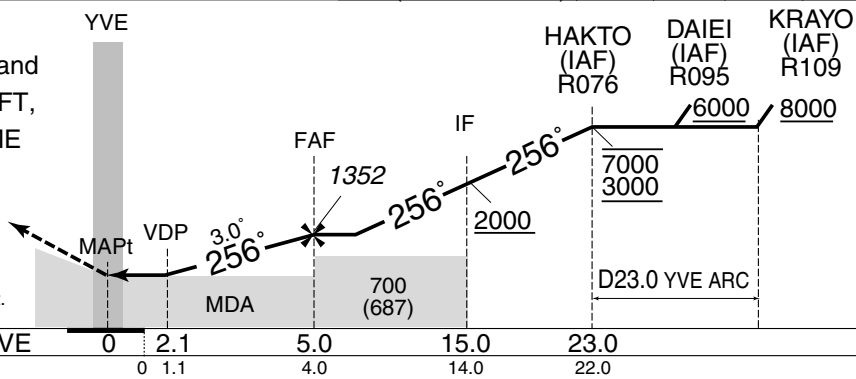
MIHO APP 120.1 – 125.4 258.2 – 317.8	YONAGO VOR/DME 114.1 YVE CH-88X 35°29'36"N/133°13'57"E	MIHO TWR 236.8 - 126.2 275.8G	GCA AVBL CALL MIHO APP
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## MISSED APPROACH

Turn left HDG031° to intercept and proceed via YVE R076 to 3000FT, turn left, direct to YVE VOR/DME within YVE 10.0DME and hold.  
Contact MIHO APP.

Timing not authorized for defining the MAPt.

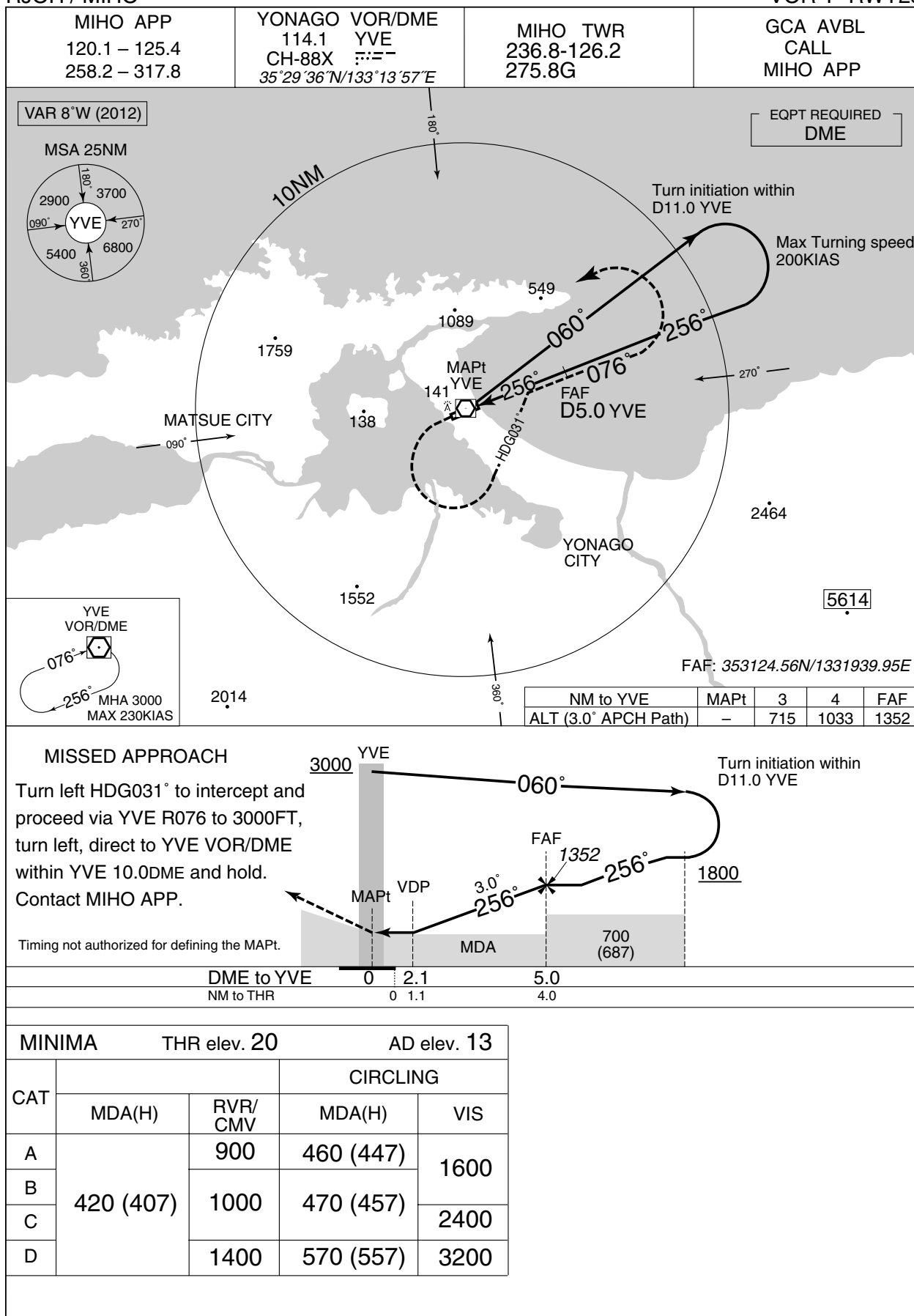


MINIMA		THR elev. 20	AD elev. 13	
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	420 (407)	900	460 (447)	1600
B		1000	470 (457)	
C				2400
D		1400	570 (557)	3200

## INSTRUMENT APPROACH CHART

RJOH / MIHO

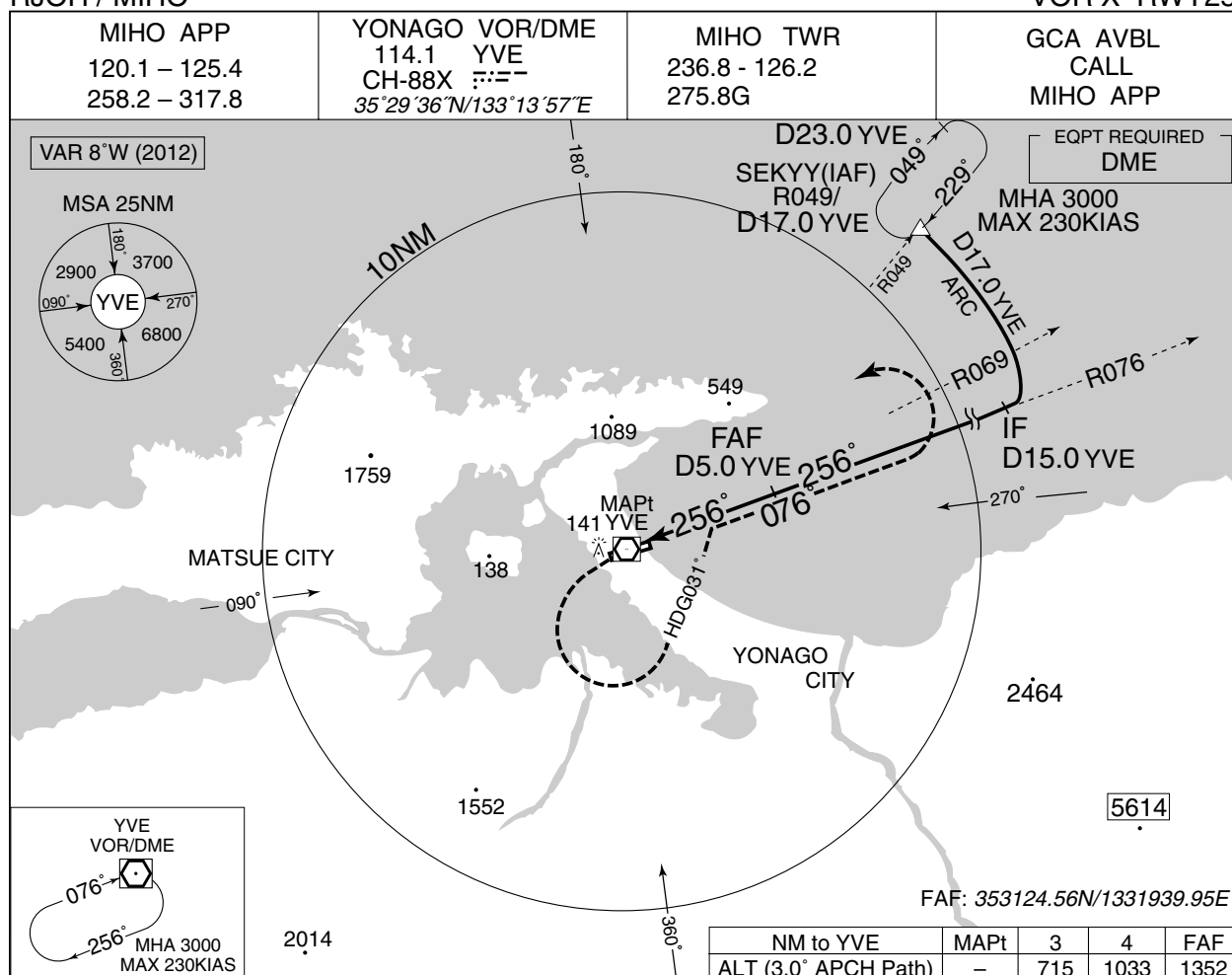
VOR Y RWY25



## INSTRUMENT APPROACH CHART

RJOH / MIHO

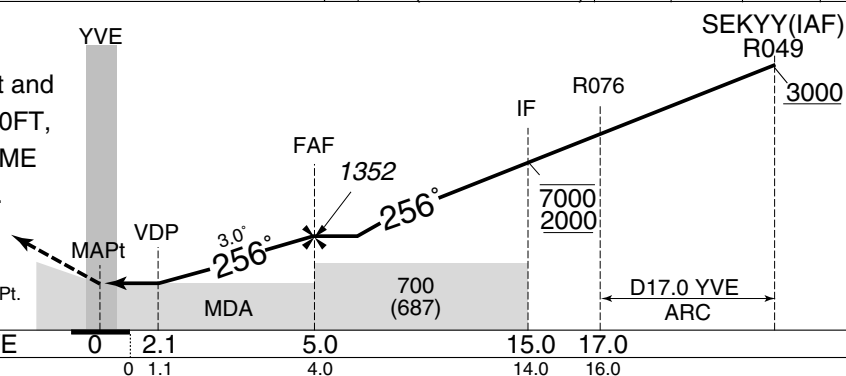
VOR X RWY25



## MISSED APPROACH

Turn left HDG031° to intercept and proceed via YVE R076 to 3000FT, turn left, direct to YVE VOR/DME within YVE 10.0DME and hold. Contact MIHO APP.

Timing not authorized for defining the MAPt.



## MINIMA

THR elev. 20

AD elev. 13

CAT	MDA(H)		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	420 (407)	900	460 (447)	1600
B		1000	470 (457)	2400
C				
D				
		1400	570 (557)	3200



**RJOH / MIHO**  
 MIHO APP  
 120.1 – 125.4  
 258.2 – 317.8

**YONAGO VOR/DME**  
 114.1 YVE  
 CH-88X  
 35°29'36"N/133°13'57"E

**MIHO TWR**  
 236.8 – 126.2  
 275.8G

**VOR Z RWY07**  
 GCA AVBL  
 CALL  
 MIHO APP

**VAR 8°W (2012)**

EQPT REQUIRED  
 DME

NM to YVE	FAF	5	4	3	2	MAPt
ALT (3.0° APCH Path)	1845	1526	1208	890	571	—

**MISSED APPROACH**

Climb via YVE R066 to 1100FT, turn left within YVE 10.0DME, direct to YVE VOR/DME and hold at 4000FT. Contact MIHO APP.

Timing not authorized for defining the MAPt.

DME to YVE	14.0	11.0	9.0	6.0	4.0	0
NM to THR	13.6	10.6	8.6	5.6	3.6	0

MINIMA			THR elev. 9	AD elev. 13
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	380 (367)	1200	460 (447)	1600
B	400 (387)	1300	470 (457)	
C	430 (417)	1400		2400
D	450 (437)	1600	570 (557)	3200

## INSTRUMENT APPROACH CHART

RJOH / MIHO

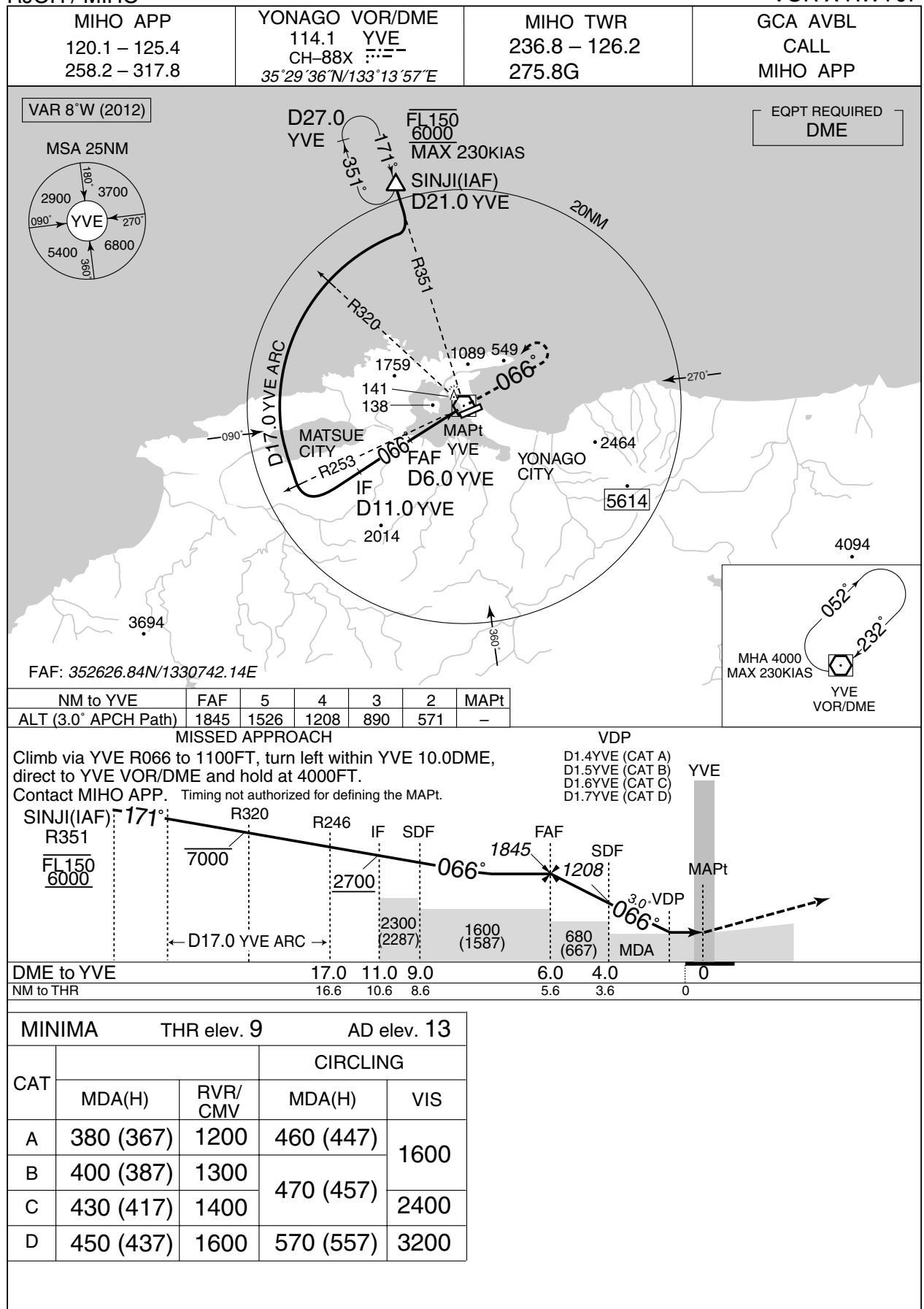
VOR Y RWY07



## INSTRUMENT APPROACH CHART

RJOH / MIHO

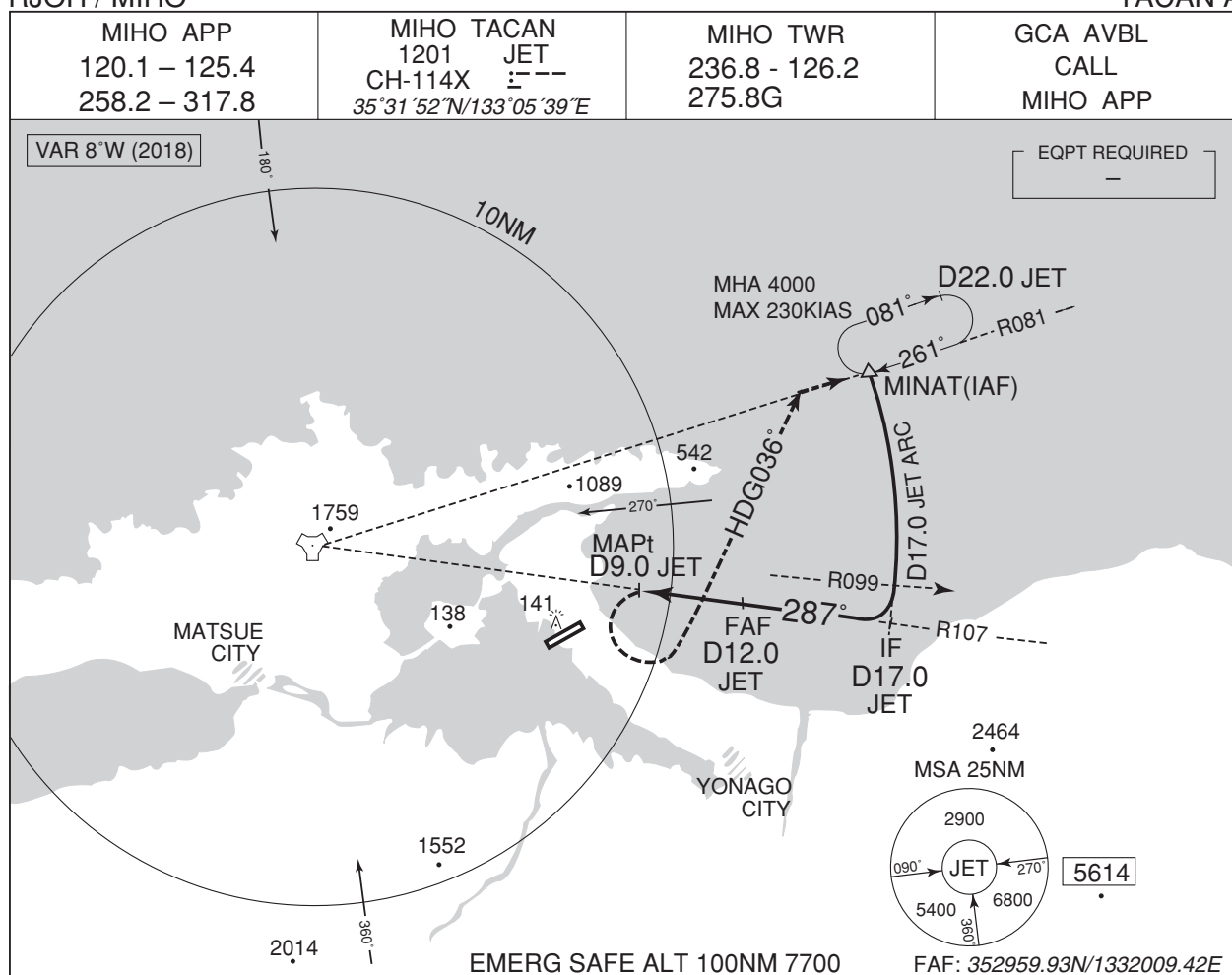
VOR X RWY07



## INSTRUMENT APPROACH CHART

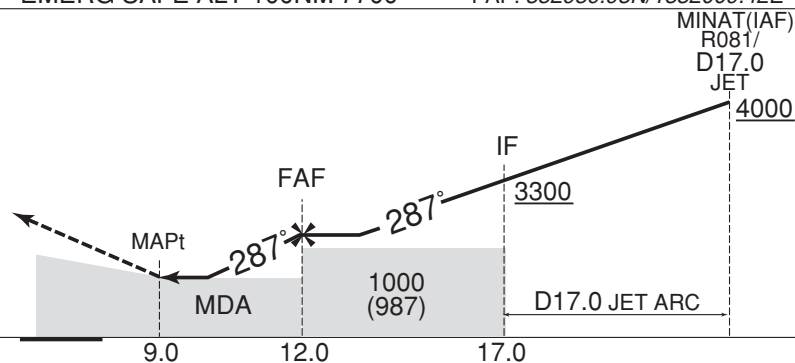
RJOH / MIHO

TACAN A



**MISSED APPROACH**  
 Turn left climb to 4000FT on  
 HDG036° to intercept and  
 proceed via JET R081 to  
 MINAT and hold.  
 Contact MIHO APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA		AD elev. 13
CAT	CIRCLING	
	MDA(H)	VIS
A	780 (767)	1600
B		2400
C		3200
D		

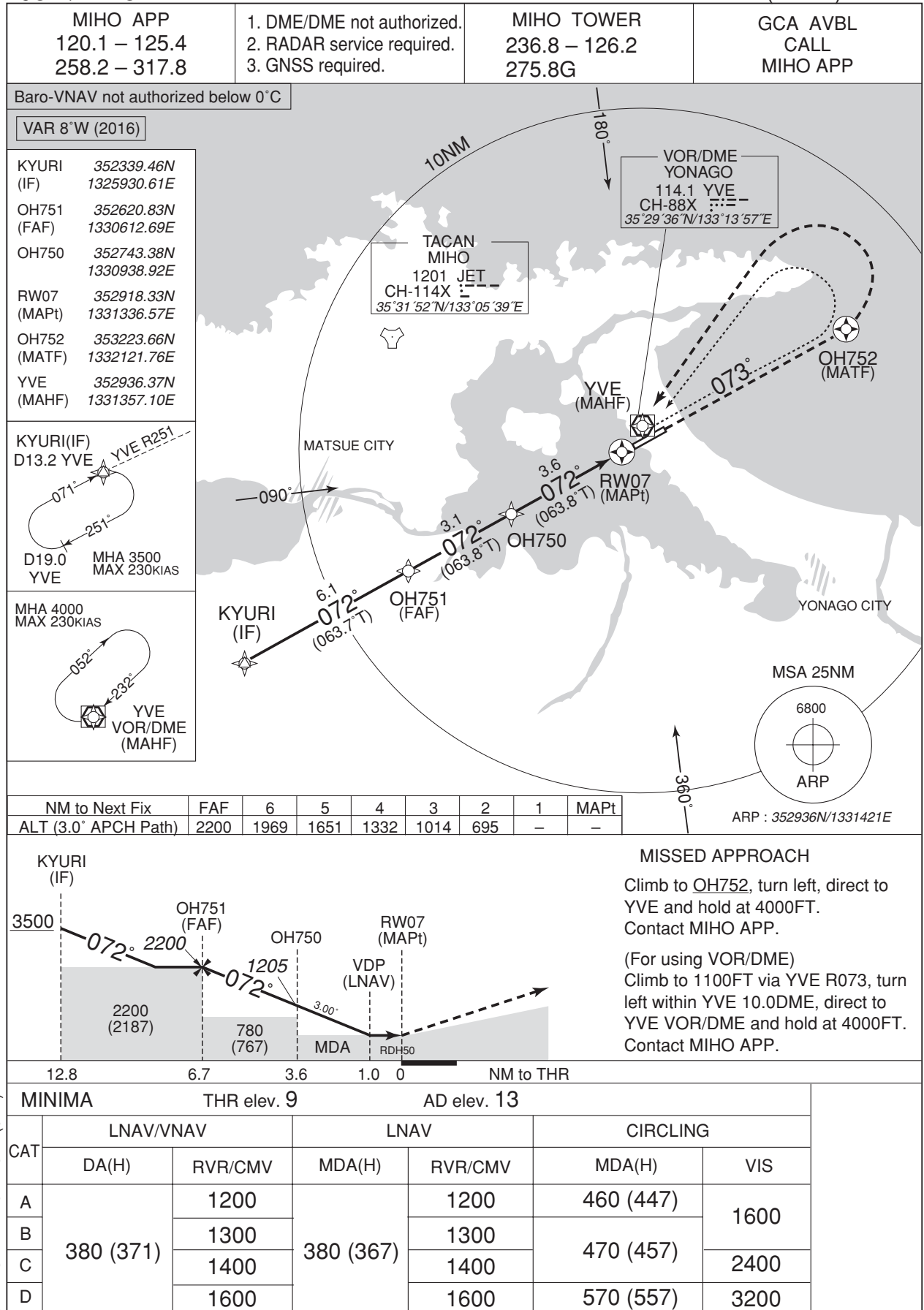
MINIMA with Missed APCH climb gradient of 2.5% are not established.

CHANGE : VAR, MIHO TACAN(JET)

## INSTRUMENT APPROACH CHART

RJOH / MIHO

RNAV(GNSS) RWY07



RJOH / MIHO

Minimum Vectoring Altitude CHART

