

## AD 2 AERODROMES

## RJAF AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## RJAF - MATSUMOTO

## RJAF AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	361000N 1375522E
2	Direction and distance from (city)	5nm SW FM Matsumoto station
3	Elevation/ Reference temperature	2157ft / -
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	7° W (2010) / 1' W
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Nagano Pref. 8909 Kukohigashi Matsumoto-shi Nagano Tel 0263-58-2517 Fax 0263-57-1553 e-mail:matsukuuko@pref.nagano.lg.jp
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

## RJAF AD 2.3 OPERATIONAL HOURS

1	AD Administration	2330 - 0800
2	Customs and immigration	On request Customs: 0266-58-5953 Immigration: 026-232-3317
3	Health and sanitation	Quarantine(human): On request(03-3599-1515) Quarantine(animal, plant): Nil
4	AIS Briefing Office	Nil
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24 (TOKYO)
7	ATS	2330 - 0800
8	Fuelling	2330 - 0800
9	Handling	2330 - 0800
10	Security	2330 - 0800
11	De-icing	Nil
12	Remarks	Nil

**RJAF AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	Nil
2	Fuel/ oil types	JET A-1 AVGAS100LL
3	Fuelling facilities/ capacity	Fuel truck
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

**RJAF AD 2.5 PASSENGER FACILITIES**

1	Hotels	In Matsumoto city and Shiojiri city
2	Restaurants	At Airport
3	Transportation	Buses and Taxi
4	Medical facilities	First aid treatment
5	Bank and Post Office	In Matsumoto city and Shiojiri city
6	Tourist Office	At Airport
7	Remarks	Nil

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

1	AD category for fire fighting	CAT 7
2	Rescue equipment	Fire fighting truck x 2
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

**RJAF AD 2.7 SEASONAL AVAILABILITY-CLEARING**

1	Types of clearing equipment	Snow remove equipments: Truck x 7, Rotary x 3, Dozer x 1, Sweeper x 2
2	Clearance priorities	1.RWY 2.TWY 3.APRON
3	Remarks	Nil

## RJAF AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	South Apron: Surface: Concrete Strength: PCN 58/R/B/X/T North Apron: N1-N4 Surface: Asphalt Strength: PCN 51/F/A/Y/T N5-N11 Surface: Asphalt Strength: AUW 5700kg
2	Taxiway width, surface and strength	S-T : 23m PCN 45/F/B/X/T N-T : 9m AUW 5700kg
3	ACL and elevation	Not available
4	VOR checkpoints	Not Available
5	INS checkpoints	Spot Nr 1: 360953.36N 1375532.62E 2: 360951.91N 1375532.90E 3: 360950.52N 1375533.17E
6	Remarks	Nil

## RJAF 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 18/36 (Marking) RWY designation ,RWY CL, RWY THR, Aiming point, TDZ, RWY side stripe (LGT) RCLL, REDL, RTHL, RENL, RWY DIST markar LGT  TWY: (Marking) TWY CL, TWY side stripe (LGT)TWY edge LGT, TWY CL LGT(for S-T only)
3	Stop bars	Nil
4	Remarks	(LGT) Apron flood LGT

## RJAF AD 2.10 AERODROME OBSTACLES

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

## RJAF AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	TOKYO
2	Hours of service MET Office outside hours	H24 (TOKYO)
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Briefing is available upon inquiry at TOKYO
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	S <sub>6</sub> , U <sub>85</sub> , U <sub>7</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	Nil
9	ATS units provided with information	RADIO
10	Additional information (limitation of service, etc.)	Nil

## RJAF 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
18	171.24°	2000x45	PCN 45/F/B/X/T Asphalt Concrete	361032.37N 1375515.37E	THR ELEV : 2132ft
36	351.24°	2000x45	PCN 45/F/B/X/T Asphalt Concrete	360928.29N 1375527.85E	THR ELEV : 2182ft
Slope of RWY		Strip Dimensions(M)	RESA(Overrun) Dimensions(M)	Remarks	
7		10	11	14	
See below figure		2120x150	40x(MNM:91 MAX:150)*	RWY Grooving : 2000mx45m	
		2120x150	42x(MNM:135 MAX:150)* *For detail, ask airport administrator		
<div><div><div><div><div>RWY18</div><div>2132ft</div><div>0m</div></div><div><div>0.65%</div><div>500m</div></div><div><div>0.85%</div><div>1500m</div></div><div><div>0.70%</div><div>2000m</div></div></div><div><div>Longitudinal profile of RWY</div><div><div>2143ft</div><div>2170ft</div><div>2182ft</div></div></div><div><div>RWY36</div></div></div></div>					

## RJAF AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
18	2000	2000	2000	2000	Nil
36	2000	2000	2000	2000	Nil

## RJAF 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
18	SALS (*1) 420m	Green -	PAPI 3.0°/Left 334.7m 61ft	Nil	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil (*3)
36	Nil (*2)	Green -	PAPI 3.0°/Left 438.1m 61ft	Nil	2000m 30m Coded color (White/Red) LIH	2000m 60m Coded color (White/Yellow) LIH	Red	Nil (*3)
Remarks								
10								
SALS with RAI(LEN:480m) (*1) APCH LGT beacon (300m, 600m and 900m FM RWY THR ) (*2) Overrun area edge LGT (LEN: 60m, Color: Red) (*3) CGL for RWY 36 RWY THR ID LGT for RWY 36 THR (Color: White)								

Usable area of PAPI

滑走路36末端側進入角指示灯の使用範囲は、障害物（山及び送電線）のため滑走路36側末端から3NM以内とする。

Usable area of PAPI for runway 36 is within approx. 3NM from runway 36 threshold due to obstructions (mountain and power line).



## RJAF AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 360957N/1375539E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI: Nil Anemometer: RWY18: 435m from RWY18 THR, LGTD RWY36: 447m from RWY36 THR, LGTD
3	TWY edge and centerline lighting	To be issued later
4	Secondary power supply/ switch-over time	Nil
5	Remarks	WDI LGT

## RJAF AD 2.16 HELICOPTER LANDING AREA

Nil
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## RJAF 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
Matsumoto information zone	Area within a radius of 9km(5NM) of ARP	5,000 ft or below	E	Matsumoto radio En	

## RJAF AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
A/G	Matsumoto Radio	118.65MHz(1) 126.2MHz	2330 - 0800	(1)Primary

## RJAF 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
VOR (7°W/2009)	MBE	117.6MHz	H24	360921.51N 1375511.34E		Unusable: 050°-060° beyond 30nm BLW 11,000ft. 060°-070° beyond 25nm BLW 11,000ft. 070°-075° beyond 20nm BLW 11,000ft. 075°-085° beyond 25nm BLW 11,000ft. 085°-095° beyond 15nm BLW 11,000ft. 095°-110° beyond 20nm BLW 11,000ft. 110°-120° beyond 25nm BLW 13,000ft. 120°-130° beyond 30nm BLW 13,000ft. 195°-220° beyond 30nm BLW 13,000ft. 220°-235° beyond 25nm BLW 13,000ft. 235°-275° beyond 20nm BLW 13,000ft. 275°-305° beyond 25nm BLW 13,000ft. 305°-335° beyond 20nm BLW 13,000ft. 335°-345° beyond 30nm BLW 12,000ft.
DME	MBE	1210MHz (CH-123X)	H24	360921.51N 1375511.34E	2260ft	

## RJAF AD 2.20 LOCAL TRAFFIC REGULATIONS

## 1. Airport regulations

PPR for use tel 0263-58-2517,2518

## 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

## RJAF AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

## RJAF AD 2.22 FLIGHT PROCEDURES

## 1. TAKE OFF MINIMA

	RWY	ACFT CAT	REDL & RCLL		REDL or RCLL or RCL Marking		NIL (DAYTIME ONLY)	
			RVR	CEIL-VIS	RVR	CEIL-VIS	RVR	CEIL-VIS
Multi-Engine ACFT with TKOF ALTN AP FILED	18	A,B,C	-	200'-1600m	-	200'-1600m	-	200'-1600m
	36		-	0'-400m	-	0'-400m	-	0'-500m
OTHER	18		AVBL LDG MINIMA					
	36							

## 2. Other

当空港に着陸又は空港周辺、特に空港の北側を飛行しようとする VFR 機については、交通情報の入手のため、少なくとも 15NM 以遠からの松本 RADIO との通信設定が推奨される。

VFR aircraft intending to land on or fly around the AP, especially north of the airport is recommended to make initial contact with Matsumoto RADIO to obtain traffic information at least 15nm far from the AP.

## RJAF AD 2.23 ADDITIONAL INFORMATION

Nil

## RJAF AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome Chart  
Standard Departure Chart - Instrument (MATSUMOTO REVERSAL)  
Standard Departure Chart - Instrument (HAPPO)  
Standard Departure Chart - Instrument (NIIGATA, MATSUMOTO- RNAV)  
Instrument Approach Chart (VOR RWY18)  
Instrument Approach Chart (RNAV(RNP) Z RWY18)  
Instrument Approach Chart (RNAV(RNP) Y RWY18)  
Instrument Approach Chart (RNAV(RNP) Z RWY36)  
Instrument Approach Chart (RNAV(RNP) Y RWY36)  
Other Chart (Visual REP)  
Other Chart (LDG CHART)  
Other Chart (MVA CHART)

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RJAF / MATSUMOTO

AD CHART

CHANGE: Aircraft stand lead-in line (Spot 6,10,11) changed.



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STANDARD DEPARTURE CHART-INSTRUMENT

RJAF / MATSUMOTO

SID

MATSUMOTO REVERSAL ONE DEPARTURE

- RWY 18 : Climb RWY HDG to 2700FT, turn left HDG321° to intercept and proceed via MBE R006 to 5.0DME, turn right direct to MBE VOR/DME.  
Cross MBE R006/5.0DME at or above 6000FT, cross MBE VOR/DME at or above 10000FT.
- RWY 36 : Climb via MBE R006 to 5900FT, turn right direct to MBE VOR/DME.  
Cross MBE VOR/DME at or above 10000FT.

NOTE RWY18 : 1) 6.6% climb gradient required up to 4200FT.

OBST ALT 3740FT located at 111°/4.40NM FM end of RWY18.

2) Departure turn limited to 150KIAS maximum until completing left turn.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJAF / MATSUMOTO

SID

HAPPO ONE DEPARTURE

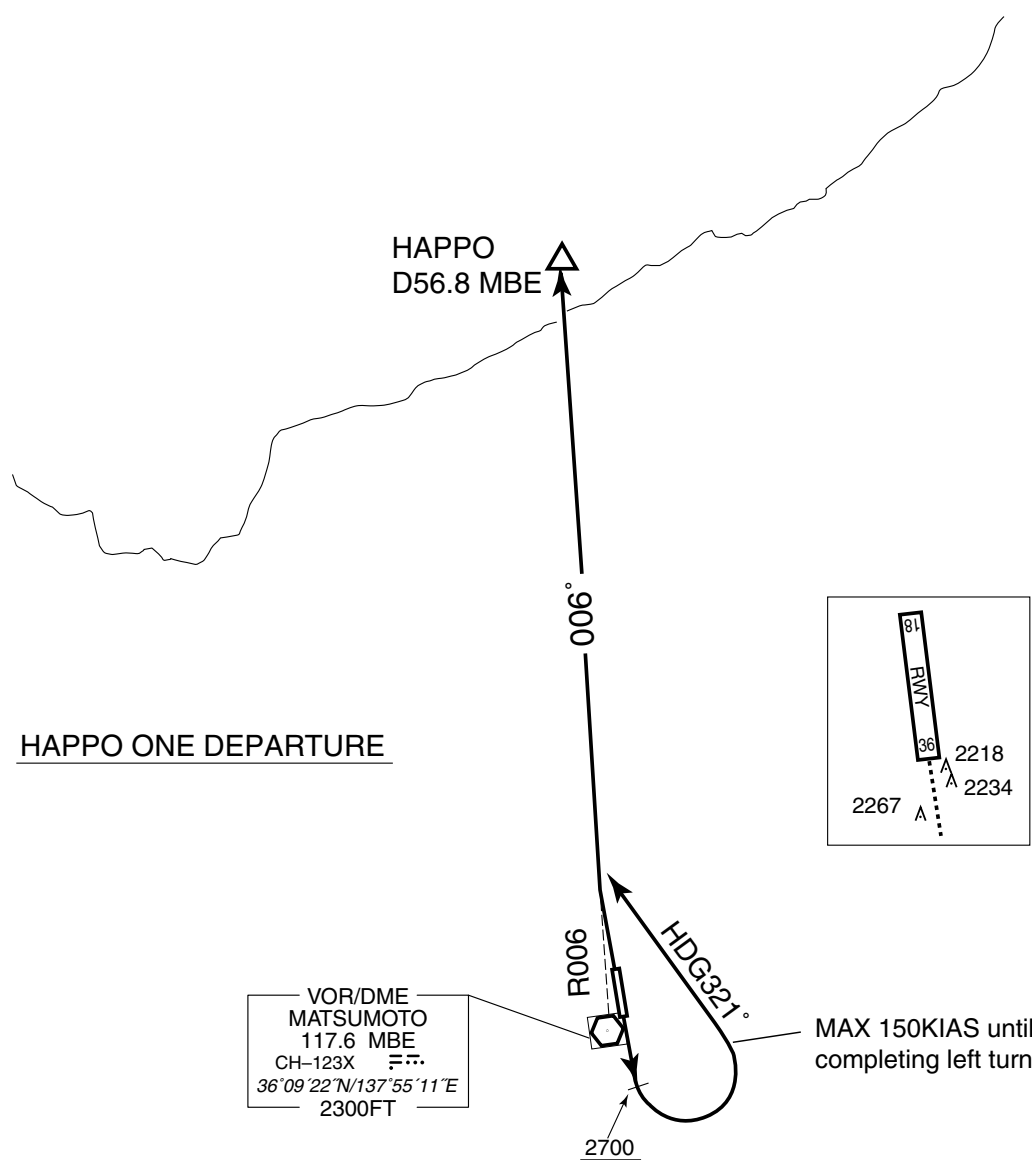
RWY 18 : Climb RWY HDG to 2700FT, turn left HDG321° to intercept and proceed via MBE R006 to HAPPO.

RWY 36 : Climb via MBE R006 to HAPPO.

NOTE RWY18 : 1) 6.6% climb gradient required up to 4200FT.

OBST ALT 3740FT located at 111°/4.40NM FM end of RWY18.

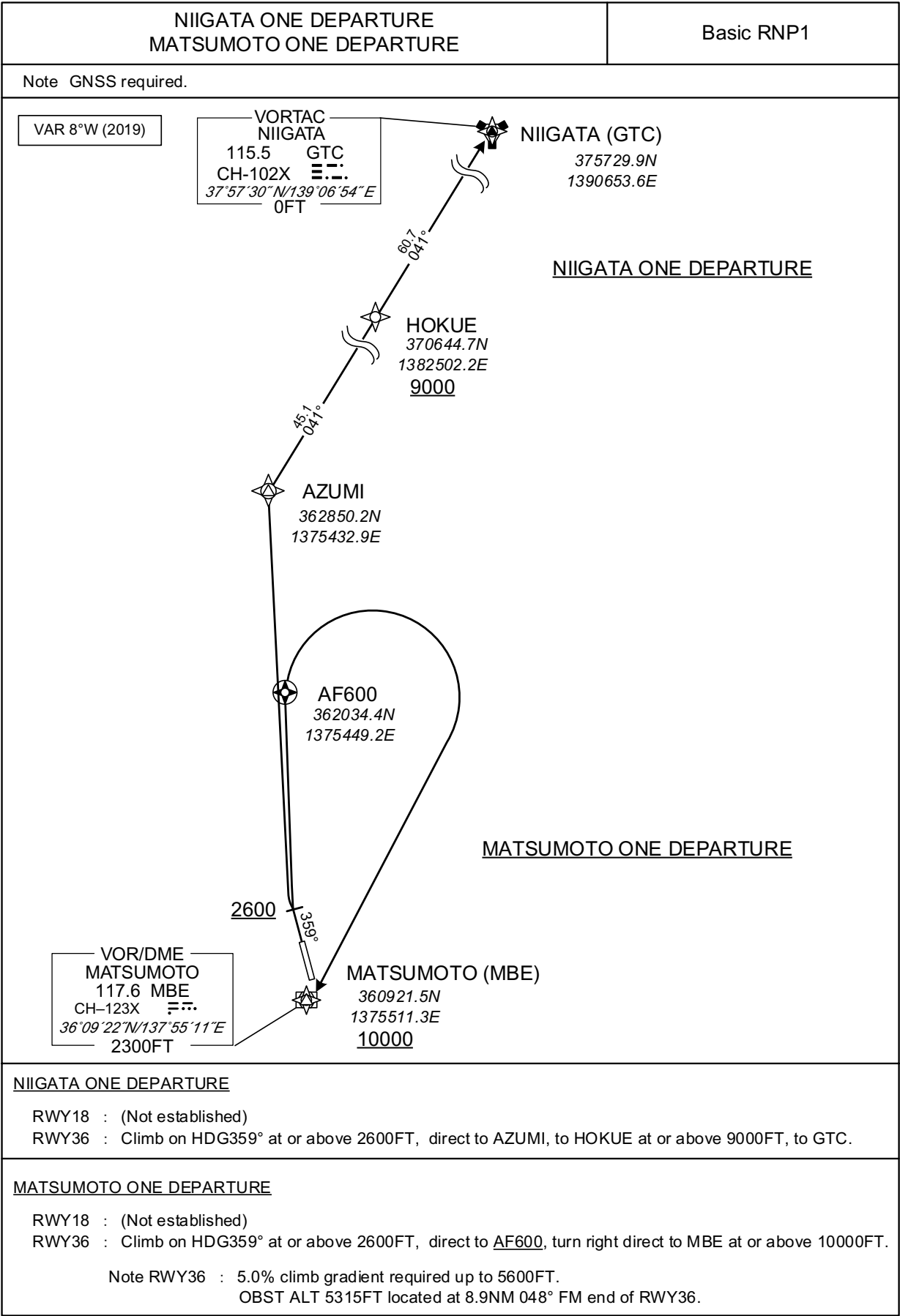
2) Departure turn limited to 150KIAS maximum until completing left turn.



STANDARD DEPARTURE CHART-INSTRUMENT

RJAF / MATSUMOTO

RNAV SID



## STANDARD DEPARTURE CHART-INSTRUMENT

RJAF / MATSUMOTO

RNAV SID

NIIGATA ONE DEPARTURE

## RWY36

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	-	-	359 (351.4)	-8.0	-	-	+2600	-	-	Basic RNP1
002	DF	AZUMI	-	-	-8.0	-	-	-	-	-	Basic RNP1
003	TF	HOKUE	-	041 (032.6)	-8.0	45.1	-	+9000	-	-	Basic RNP1
004	TF	GTC	-	041 (033.0)	-8.0	60.7	-	-	-	-	Basic RNP1

MATSUMOTO ONE DEPARTURE

## RWY36

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	-	-	359 (351.4)	-8.0	-	-	+2600	-	-	Basic RNP1
002	DF	AF600	Y	-	-8.0	-	-	-	-	-	Basic RNP1
003	DF	MBE	-	-	-8.0	-	R	+10000	-	-	Basic RNP1

CHANGE:New PROC



INSTRUMENT APPROACH CHART

RJAF / MATSUMOTO

VOR RWY18



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INSTRUMENT APPROACH CHART

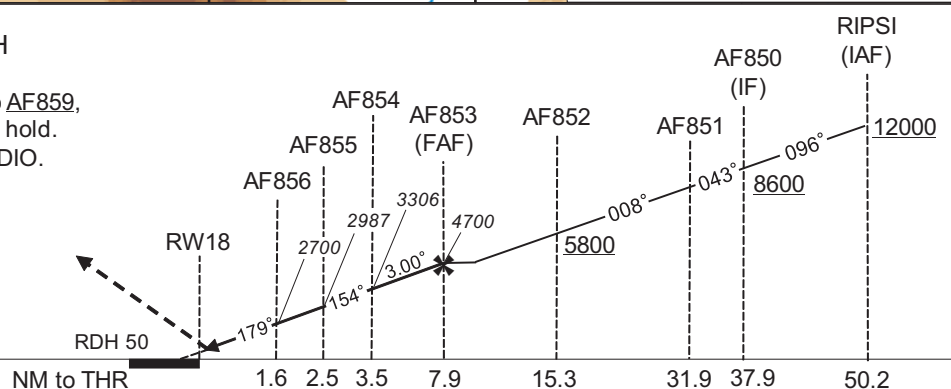
RJAF / MATSUMOTO

RNAV(RNP) Z RWY18



MISSED APPROACH

Climb to 10000FT, direct to AF859,  
turn left, direct to MBE and hold.  
Contact MATSUMOTO RADIO.



Missed APCH climb gradient MNM 7.0%

CAT	THR elev. 2132		AD elev. 2157	
	RNP 0.20		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	2432(300)	1000	2448(316)	1000
D	-	-	-	-

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

# RNP AR

Special Authorization Required

CHANGE : New PROC

## INSTRUMENT APPROACH CHART

RJAF / MATSUMOTO

RNAV(RNP) Z RWY18

RNAV(RNP) Z RWY18Coding 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	RIPSI	-	-	-8.0	-	-	+12000	-250	-	-
002	TF	AF850	-	096 (087.7)	-8.0	12.3	-	+8600	-	-	1.0
003	TF	AF851	-	043 (035.2)	-8.0	6.0	-	-	-	-	0.3
004	TF	AF852	-	008 (359.9)	-8.0	16.6	-	+5800	-	-	0.3
005	RF Center: AFRF5 r=3.15NM	AF853	-	-	-8.0	7.4	L	4700	-	-	0.3
006	RF Center: AFRF5 r=3.15NM	AF854	-	-	-8.0	4.4	L	3306	-	-3.00	0.2 0.3
007	TF	AF855	-	154 (146.1)	-8.0	1.0	-	2987	-	-3.00	0.2 0.3
008	RF Center: AFRF6 r=2.06NM	AF856	-	-	-8.0	0.9	R	2700	-	-3.00	0.2 0.3
009	TF	RW18	Y	179 (171.1)	-8.0	1.6	-	2182	-	-3.00/50	0.2 0.3
010	DF	AF859	Y	-	-8.0	-	-	-	-	-	1.0
011	DF	MBE	-	-	-8.0	-	L	10000	-	-	1.0

Waypoint Coordinates

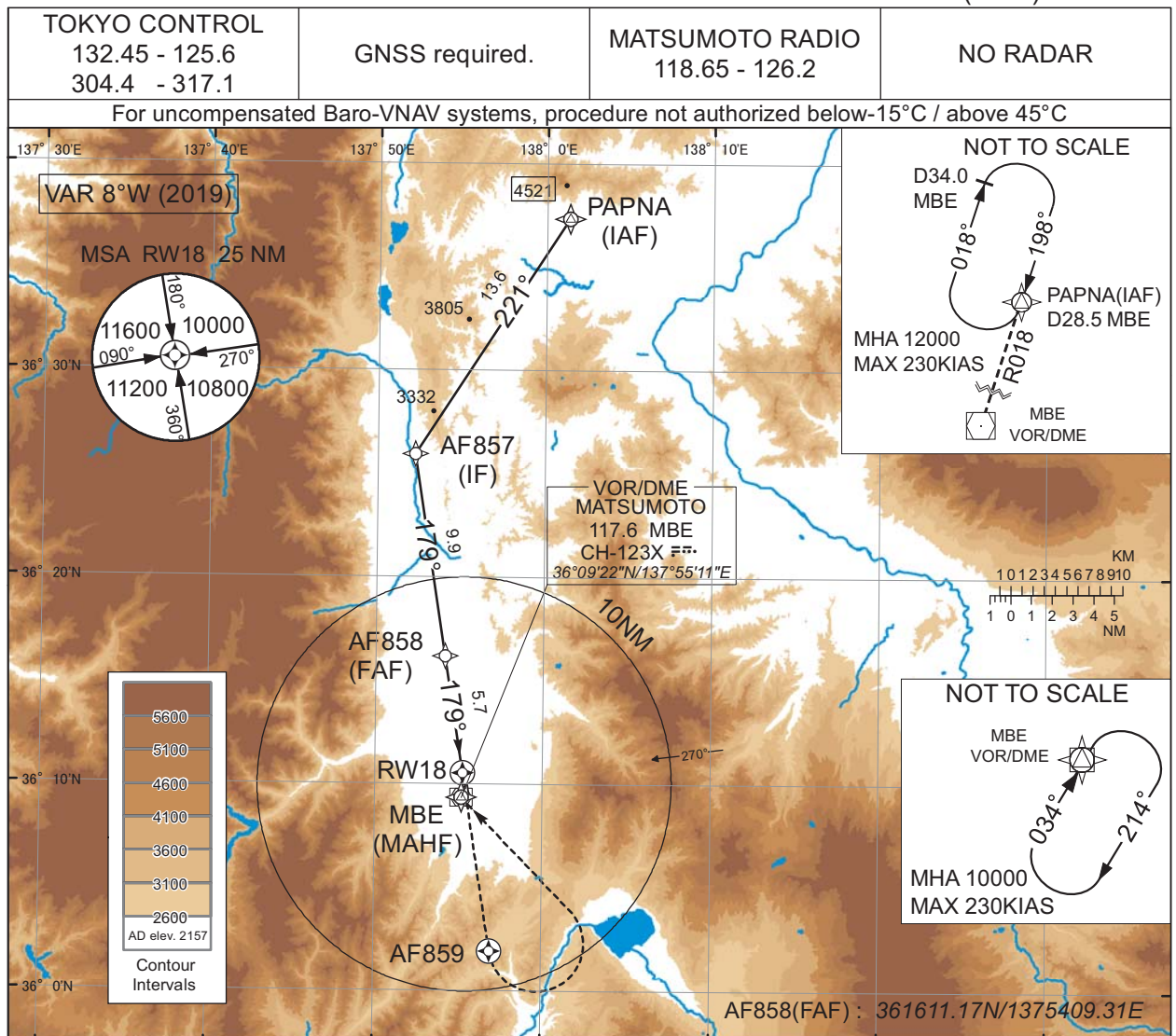
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
RIPSI	355340.33N / 1374133.41E	AFRF5	361534.43N / 1375704.35E
AF850	355408.74N / 1375645.79E	AFRF6	361149.74N / 1375225.49E
AF851	355901.18N / 1380100.60E		
AF852	361534.92N / 1380057.71E		
AF853	361749.79N / 1375421.45E		
AF854	361348.83N / 1375350.85E		
AF855	361259.03N / 1375432.28E		
AF856	361209.11N / 1375456.52E		
RW18	361032.37N / 1375515.37E		
AF859	360155.80N / 1375655.84E		
MBE	360921.51N / 1375511.34E		

CHANGE : Correction of misdescription (AFRF6 Coordinates).

INSTRUMENT APPROACH CHART

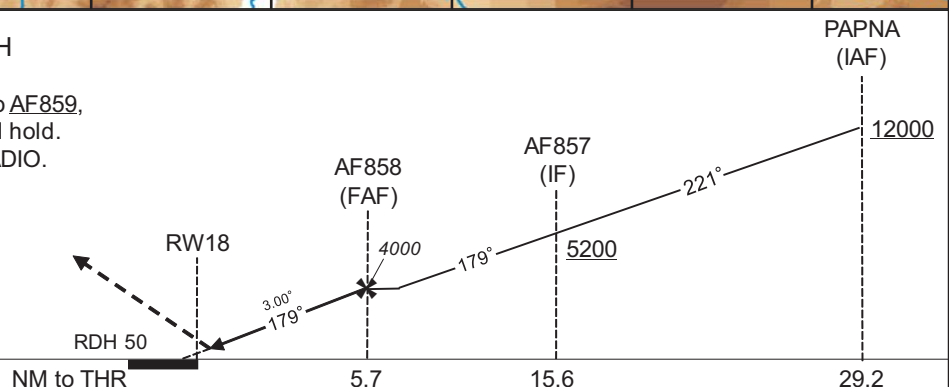
RJAF / MATSUMOTO

RNAV(RNP) Y RWY18



**MISSED APPROACH**

Climb to 10000FT, direct to AF859,  
turn left, direct to MBE and hold.  
Contact MATSUMOTO RADIO.



Missed APCH climb gradient MNM 7.0%

CAT	RNP 0.20		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	2432(300)	1000	2448(316)	1000
D	-	-	-	-

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

**RNP AR**

**Special Authorization Required**

## INSTRUMENT APPROACH CHART

RJAF / MATSUMOTO

RNAV(RNP) Y RWY18

RNAV(RNP) Y RWY18Coding 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	PAPNA	-	-	-8.0	-	-	+12000	-	-	-
002	TF	AF857	-	221 (212.8)	-8.0	13.6	-	+5200	-	-	1.0
003	TF	AF858	-	179 (171.0)	-8.0	9.9	-	4000	-	-	1.0
004	TF	RW18	Y	179 (171.1)	-8.0	5.7	-	2182	-	-3.00/50	0.2 0.3
005	DF	AF859	Y	-	-8.0	-	-	-	-	-	1.0
006	DF	MBE	-	-	-8.0	-	L	10000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
PAPNA	363721.74N / 1380122.92E
AF857	362557.23N / 1375214.72E
AF858	361611.17N / 1375409.31E
RW18	361032.37N / 1375515.37E
AF859	360155.80N / 1375655.84E
MBE	360921.51N / 1375511.34E

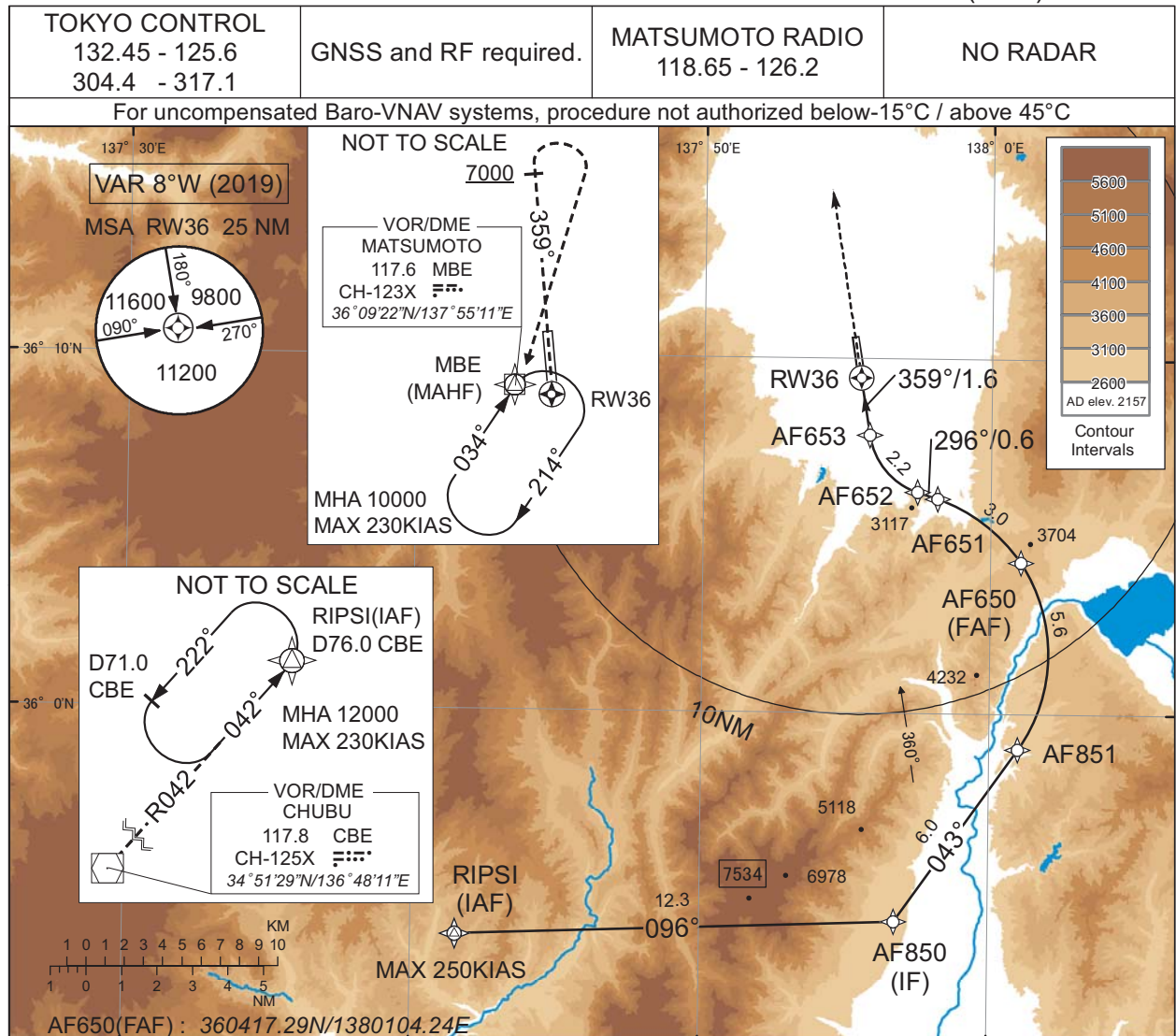
CHANGE : New PROC



INSTRUMENT APPROACH CHART

RJAF / MATSUMOTO

RNAV(RNP) Z RWY36



**MISSED APPROACH**

From RW36 on track 359°, at or above 7000FT turn right, direct to MBE and hold at 10000FT. Contact MATSUMOTO RADIO.

PAPI not coincident with VPA.



Missed APCH climb gradient 3.0%

CAT	THR elev. 2182		AD elev. 2157	
	RNP 0.20		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	2482(300)	1800	2551(369)	1800
D	-	-	-	-

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

**RNP AR**

**Special Authorization Required**

## INSTRUMENT APPROACH CHART

RJAF / MATSUMOTO

RNAV(RNP) Z RWY36

RNAV(RNP) Z RWY36Coding 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	RIPSI	-	-	-8.0	-	-	+12000	-250	-	-
002	TF	AF850	-	096 (087.7)	-8.0	12.3	-	+8600	-	-	1.0
003	TF	AF851	-	043 (035.2)	-8.0	6.0	-	+5700	-	-	1.0
004	RF Center: AFRF1 r=4.60NM	AF650	-	-	-8.0	5.6	L	5000	-	-	1.0
005	RF Center: AFRF1 r=4.60NM	AF651	-	-	-8.0	3.0	L	3880	-	-3.50	0.2 0.3
006	TF	AF652	-	296 (288.3)	-8.0	0.6	-	3657	-	-3.50	0.2 0.3
007	RF Center: AFRF2 r=2.02NM	AF653	-	-	-8.0	2.2	R	2837	-	-3.50	0.2 0.3
008	TF	RW36	Y	359 (351.1)	-8.0	1.6	-	2232	-	-3.50/50	0.2 0.3
009	FA	-	-	359 (351.1)	-8.0	-	-	+7000	-	-	1.0
010	DF	MBE	-	-	-8.0	-	R	10000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
RIPSI	355340.33N / 1374133.41E	AFRF1	360141.27N / 1375622.53E
AF850	355408.74N / 1375645.79E	AFRF2	360810.39N / 1375813.97E
AF851	355901.18N / 1380100.60E		
AF650	360417.29N / 1380104.24E		
AF651	360604.23N / 1375809.40E		
AF652	360615.53N / 1375727.24E		
AF653	360751.55N / 1375546.68E		
RW36	360928.29N / 1375527.85E		
MBE	360921.51N / 1375511.34E		

CHANGE : New PROC



INSTRUMENT APPROACH CHART

RJAF / MATSUMOTO

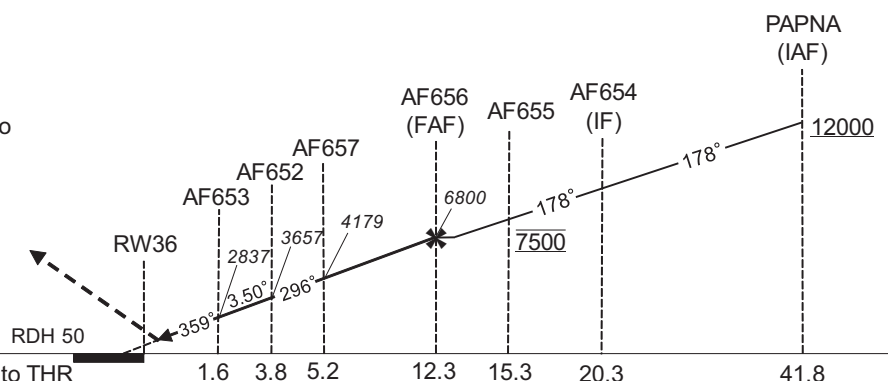
RNAV(RNP) Y RWY36



MISSED APPROACH

From RW36 on track 359°, at or above 7000FT turn right, direct to MBE and hold at 10000FT. Contact MATSUMOTO RADIO.

PAPI not coincident with VPA.



Missed APCH climb gradient MNM 3.0%

CAT	THR elev. 2182		AD elev. 2157	
	RNP 0.20		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B	-	-	-	-
C	2482(300)	1800	2551(369)	1800
D	-	-	-	-

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

# RNP AR

Special Authorization Required

CHANGE : New PROC

## INSTRUMENT APPROACH CHART

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RNAV(RNP) Y RWY36

RNAV(RNP) Y RWY36Coding 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	PAPNA	-	-	-8.0	-	-	+12000	-	-	-
002	TF	AF654	-	178 (170.2)	-8.0	21.5	-	-	-	-	1.0
003	TF	AF655	-	178 (170.3)	-8.0	5.0	-	7500	-	-	0.3
004	RF Center: AFRF4 r=4.89NM	AF656	-	-	-8.0	3.0	R	6800	-	-	0.3
005	RF Center: AFRF4 r=4.89NM	AF657	-	-	-8.0	7.1	R	4179	-	-3.50	0.2 0.3
006	TF	AF652	-	296 (288.4)	-8.0	1.4	-	3657	-	-3.50	0.2 0.3
007	RF Center: AFRF2 r=2.02NM	AF653	-	-	-8.0	2.2	R	2837	-	-3.50	0.2 0.3
008	TF	RW36	Y	359 (351.1)	-8.0	1.6	-	2232	-	-3.50/50	0.2 0.3
009	FA	-	-	359 (351.1)	-8.0	-	-	+7000	-	-	1.0
010	DF	MBE	-	-	-8.0	-	R	10000	-	-	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
PAPNA	363721.74N / 1380122.92E	AFRF4	361027.73N / 1380059.34E
AF654	361613.48N / 1380553.24E	AFRF2	360810.39N / 1375813.97E
AF655	361117.56N / 1380656.02E		
AF656	360820.76N / 1380625.54E		
AF657	360549.12N / 1375905.80E		
AF652	360615.53N / 1375727.24E		
AF653	360751.55N / 1375546.68E		
RW36	360928.29N / 1375527.85E		
MBE	360921.51N / 1375511.34E		

CHANGE : New PROC

RJAF / MATSUMOTO

Visual REP



Call sign	BRG / DIST from ARP	Remarks
安曇野インターチェンジ Azumino Interchange	008°/8.0NM	長野自動車道 安曇野インターチェンジ Interchange
松本ステーション Matsumoto Station	036°/4.3NM	JR駅 Station
美ヶ原 Utsukushigahara	075°/9.6NM	美ヶ原王ヶ頭 Peak
島島 Shimashima	292°/5.0NM	松本電鉄新島島駅 Station
塩尻インターチェンジ Shiojiri Interchange	142°/4.1NM	長野自動車道 塩尻インターチェンジ Interchange
諏訪湖 Suwako	140°/10NM	諏訪湖上空 Lake
鳥居峠 Torii touge	213°/14.4NM	峠 Mountain Pass





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Minimum Vectoring Altitude CHART

