

**HANAMAKI AP**  
 HANAMAKI RADIO  
 118.2 - 126.2

**REMARKS:**  
 Dimensions of RWY 2500m x 45m (RWY GROOVING 2500m x 45m)  
 Strength and surface of RWY PCN 68/F/A/X/T Asphalt  
 Designations RWY NR 02/20  
 Magnetic BRG 18°/198°  
 TWY width and strength  
 T1, T4 PCN 68/F/B/X/T 28.5m  
 T2, T3 PCN 67/F/B/X/T 34m  
 T5 PCN 75/F/C/X/T 30m  
 P1-P3 PCN 68/F/B/X/T 23m  
 Apron strength PCN 74/R/B/X/T  
 W-Apron strength PCN 52/R/B/X/T  
 (APRON FOR SMALL ACFT) (AUW5700kg/0.28MPa)

**LONGITUDINAL PROFILE OF RWY**  
 294.3ft 1310m 1732m 293.3ft 297.5ft 2500m  
 0.6% 0.2% 0.6% 0.3% LEVEL

**APCH LGT BEACONS**  
 334m 420m 596m  
 283.4ft 285.4ft 297.5ft

**SEQUENCED FLASHING LGT (SFL-V)**  
 900m

**DETAIL-A**  
 RWY HLDG PSN markings  
 RWY SIDE  
 T1, T2, T3, T4, T5-TWY

**DETAIL-B**  
 ALS

**WIND SPEED METER**  
 452.4m  
 7v1  
 WDI  
 392503.58N 1410757.62E

**TAXIING GUIDANCE SIGN**  
 392503.58N 1410757.62E

**APRON FLOOD LGT**  
 5v3  
 5v2  
 5v1

**APRON**  
 FIRE STATION  
 APRON FOR SMALL ACFT

**W-APRON**  
 ABN

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STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

➡ SID

OHSU ONE DEPARTURE

RWY 02 : Climb RWY HDG to 900FT, turn left...

RWY 20 : Climb RWY HDG to 1300FT, turn left HDG 324° ...  
...to intercept and proceed via HPE R009 to OHSU.

OHSU ONE DEPARTURE



## STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

SID

NIIGATA FOUR DEPARTURE

RWY 02 : Climb RWY HDG to HPE 3.5 DME, turn right...

RWY 20 : Climb RWY HDG to HPE 3.5 DME, turn left...

...proceed to HPE VOR/DME, via HPE R236 to GTC VORTAC.

Cross HPE VOR/DME at or above 2200 FT.

Note RWY02 : 4.5% climb gradient required up to 2400FT.

OBST ALT 1641FT located at 4.1NM 091° FM end of RWY02.

RWY20 : 3.9% climb gradient required up to 1100FT.

OBST ALT 722FT located at 2.8NM 166° FM end of RWY20.



STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

SID

HANAMAKI REVERSAL TWO DEPARTURE

RWY 02 : Climb RWY HDG to 700FT, via HPE R022 to 6.0 DME, turn right...

RWY 20 : Climb RWY HDG to 700FT, via HPE R194 to 6.0 DME, turn left...

...proceed to HPE VOR/DME.

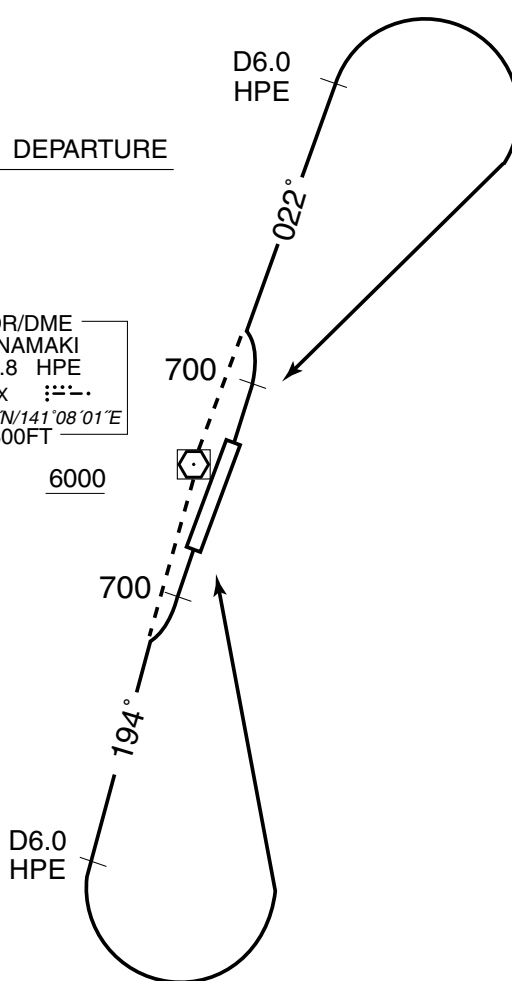
Cross HPE VOR/DME at or above 6000FT.

Note RWY02 : 5.0% climb gradient required up to 3200FT.

OBST ALT 2691FT located at 9.1NM 058° FM end of RWY02.

HANAMAKI REVERSAL TWO DEPARTURE

VOR/DME  
HANAMAKI  
112.8 HPE  
CH-75X  
39°26'00"N/141°08'01"E  
300FT



## STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

RNAV SID

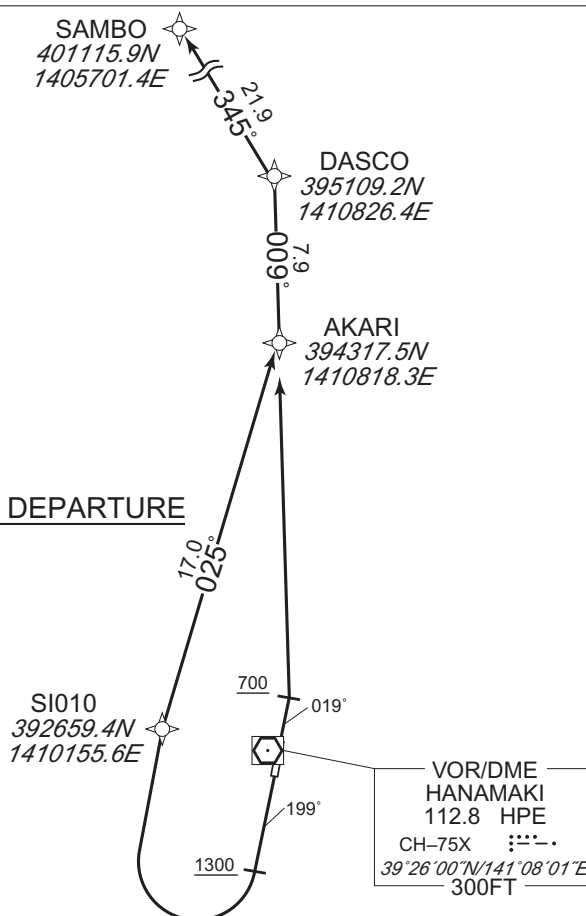
## SAMBO ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9°W (2021)

## SAMBO ONE DEPARTURE



## SAMBO ONE DEPARTURE

RWY02 : Climb on HDG 019° at or above 700FT, direct to AKARI, to DASCO to SAMBO.

RWY20 : Climb on HDG 199° at or above 1300FT, turn right direct to SI010, to AKARI, to DASCO to SAMBO .

Note RWY02 : 4.0% climb gradient required up to 700FT.

OBST ALT 318FT located at 0.2NM 061° FM end of RWY02.

RWY20 : 4.0% climb gradient required up to 2700FT.

OBST ALT 3117FT located at 10.7NM 351° FM end of RWY20.

## RWY02

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	—	—	019 (010.7)	-8.7	—	—	+700	—	—	Basic RNP1
002	DF	AKARI	—	—	-8.7	—	—	—	—	—	Basic RNP1
003	TF	DASCO	—	009 (000.8)	-8.7	7.9	—	—	—	—	Basic RNP1
004	TF	SAMBO	—	345 (336.6)	-8.7	21.9	—	—	—	—	Basic RNP1

## RWY20

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	—	—	199 (190.7)	-8.7	—	—	+1300	—	—	Basic RNP1
002	DF	SI010	—	—	-8.7	—	R	—	—	—	Basic RNP1
003	TF	AKARI	—	025 (016.7)	-8.7	17.0	—	—	—	—	Basic RNP1
004	TF	DASCO	—	009 (000.8)	-8.7	7.9	—	—	—	—	Basic RNP1
005	TF	SAMBO	—	345 (336.6)	-8.7	21.9	—	—	—	—	Basic RNP1

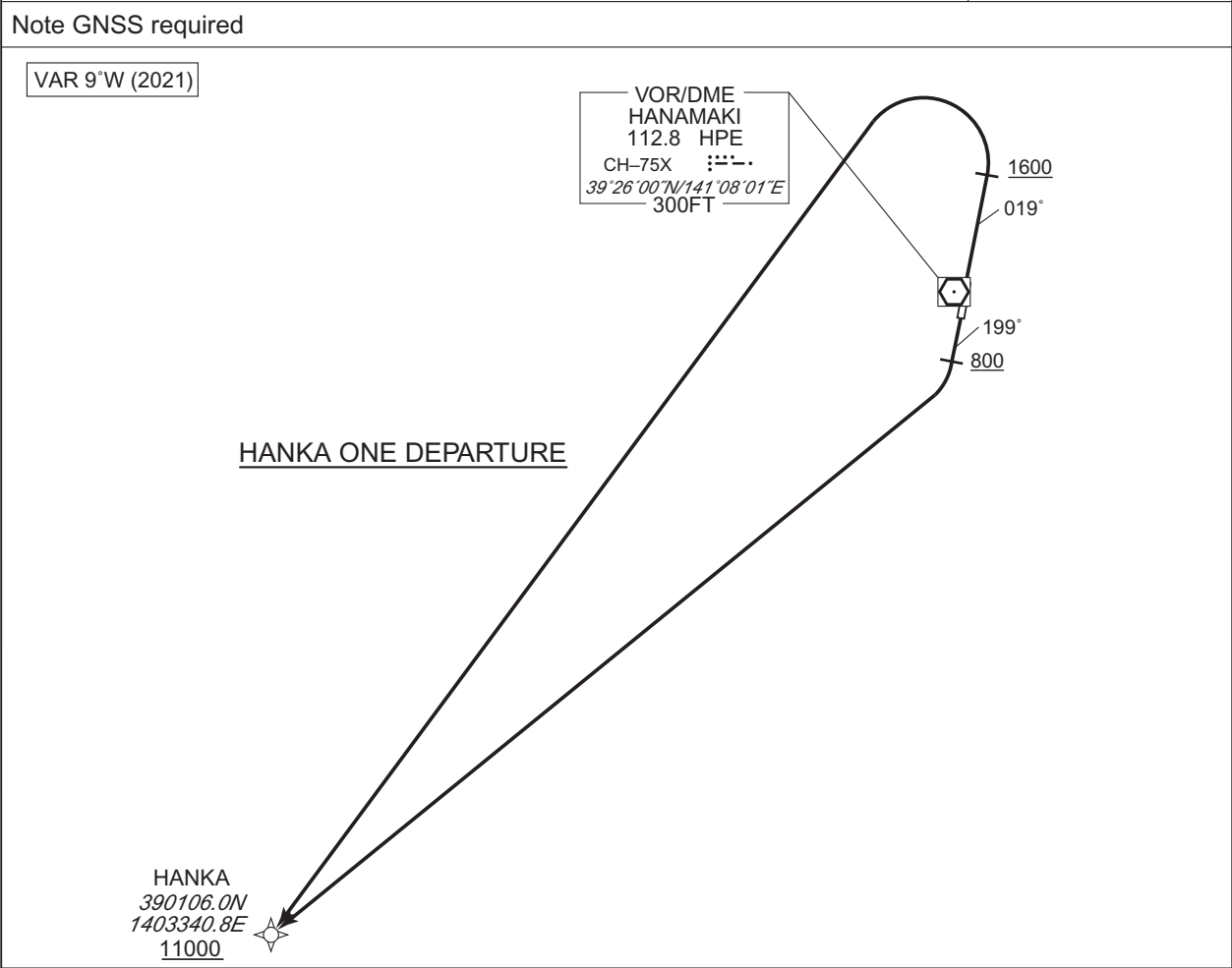
CHANGE : VAR. Note RWY20 (OBST).

STANDARD DEPARTURE CHART -INSTRUMENT

RJSI / HANAMAKI

RNAV SID

HANKA ONE DEPARTURE	Basic RNP1
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HANKA ONE DEPARTURE

RWY02 : Climb on HDG 019° at or above 1600FT, turn left direct to HANKA, at or above 11000FT.  
RWY20 : Climb on HDG 199° at or above 800FT, turn right direct to HANKA, at or above 11000FT.  
Note RWY02: 5.0% climb gradient required up to 3600FT.  
OBST ALT 1936FT located at 5.5NM 340° FM end of RWY02.  
OBST ALT 3018FT located at 8.2NM 310° FM end of RWY02.  
RWY20: 5.0% climb gradient required up to 5400FT.  
OBST ALT 4593FT located at 18.2NM 227° FM end of RWY20.  
OBST ALT 5151FT located at 20.8NM 232° FM end of RWY20.

RWY02

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	—	—	019 (010.7)	-8.7	—	—	+1600	—	—	Basic RNP1
002	DF	HANKA	—	—	-8.7	—	L	+11000	—	—	Basic RNP1

RWY20

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	—	—	199 (190.7)	-8.7	—	—	+800	—	—	Basic RNP1
002	DF	HANKA	—	—	-8.7	—	R	+11000	—	—	Basic RNP1

CHANGE : VAR. Note RWY20 (OBST).

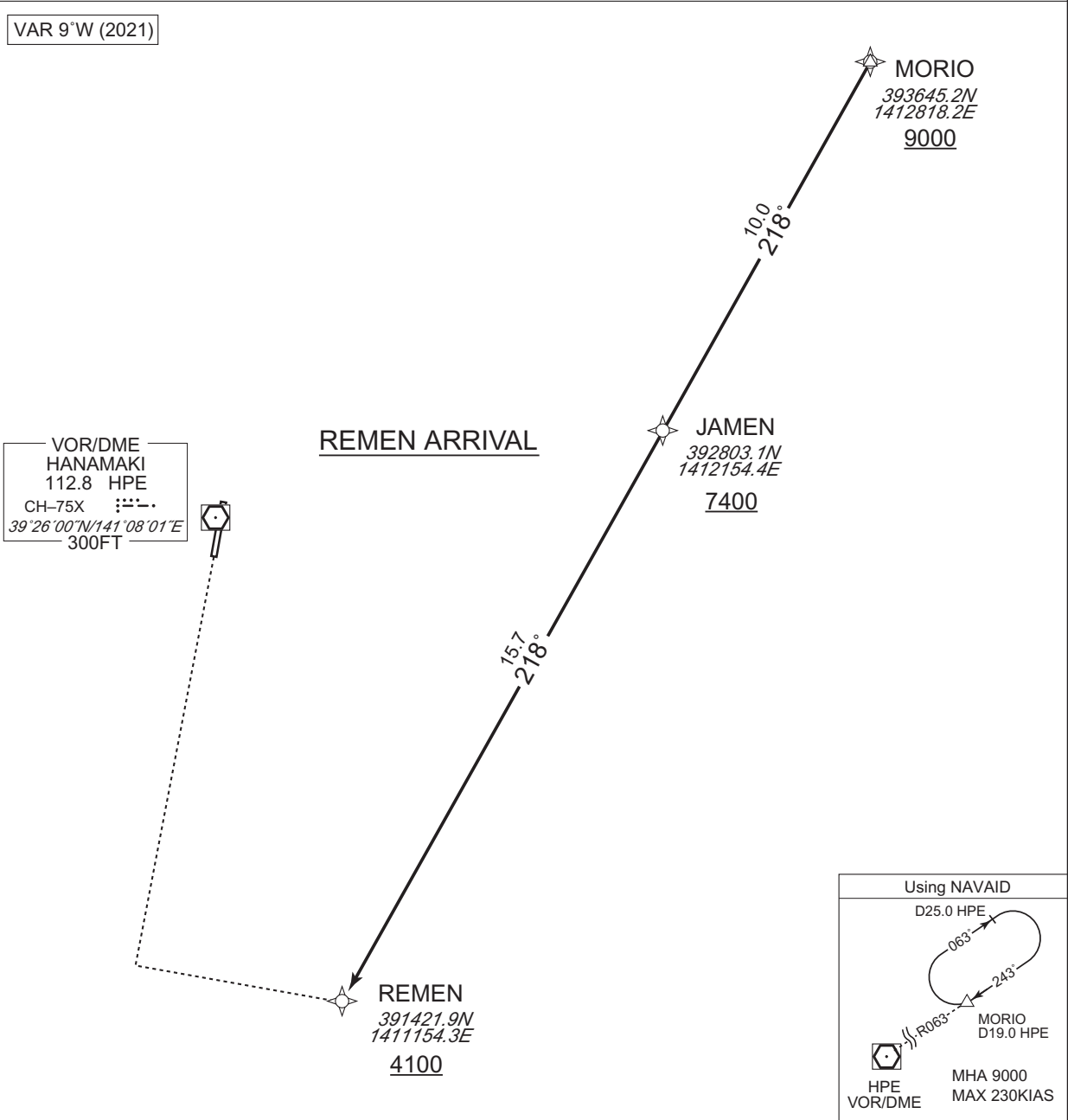
STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY02

REMEN ARRIVAL	Basic RNP1
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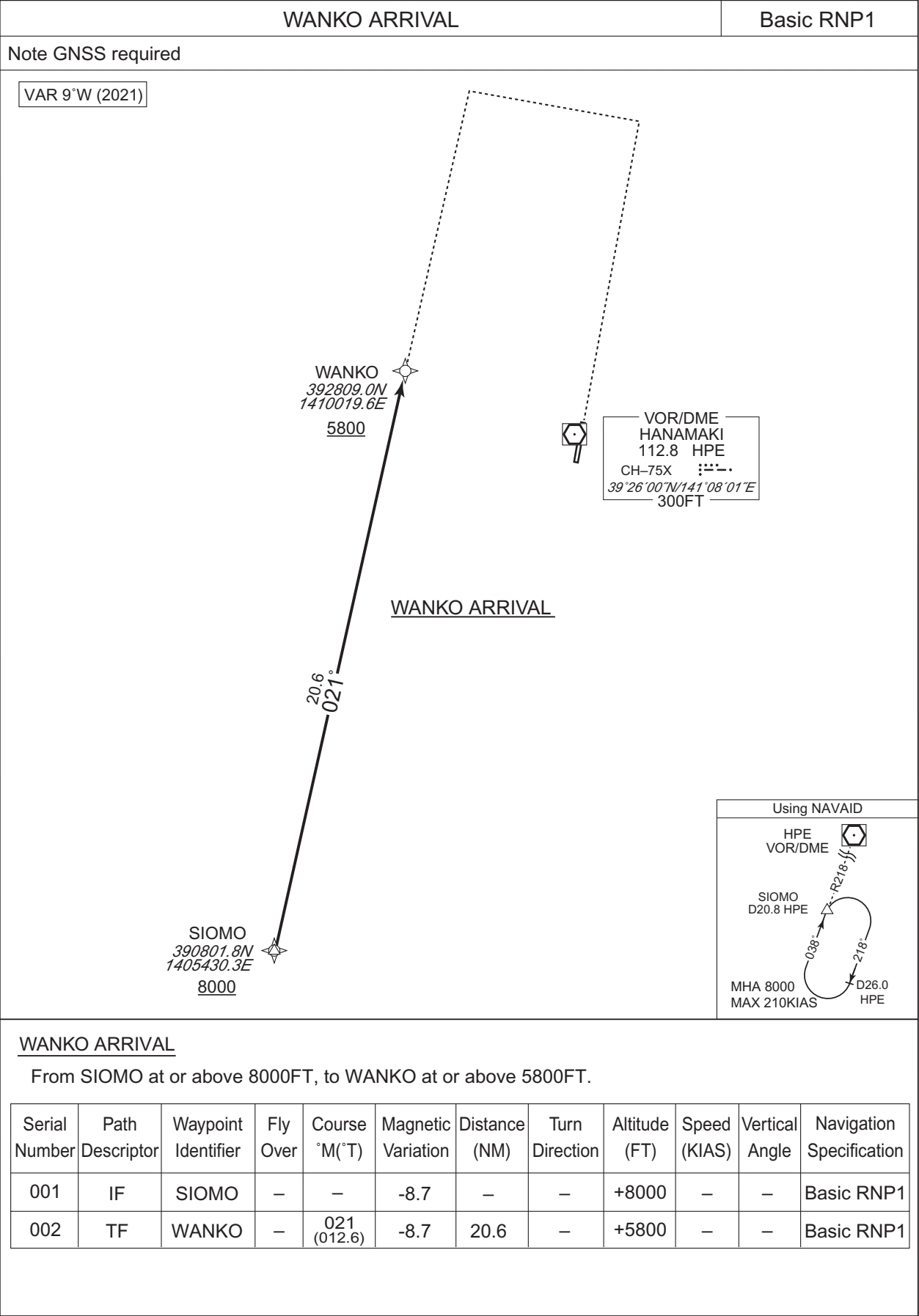
Note GNSS required



STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

RNAV STAR RWY20



CHANGE : VAR.



## STANDARD ARRIVAL CHART - INSTRUMENT

CHANGE : VAR. Course FM ESBEL to SIOMO. HLDG pattern(RNAV) abolished. HLDG pattern(Using NAVAID) abolished. HLDG pattern(RNAV) established.  
Coding table(Hold) added.



## STANDARD ARRIVAL CHART - INSTRUMENT

RJSI / HANAMAKI

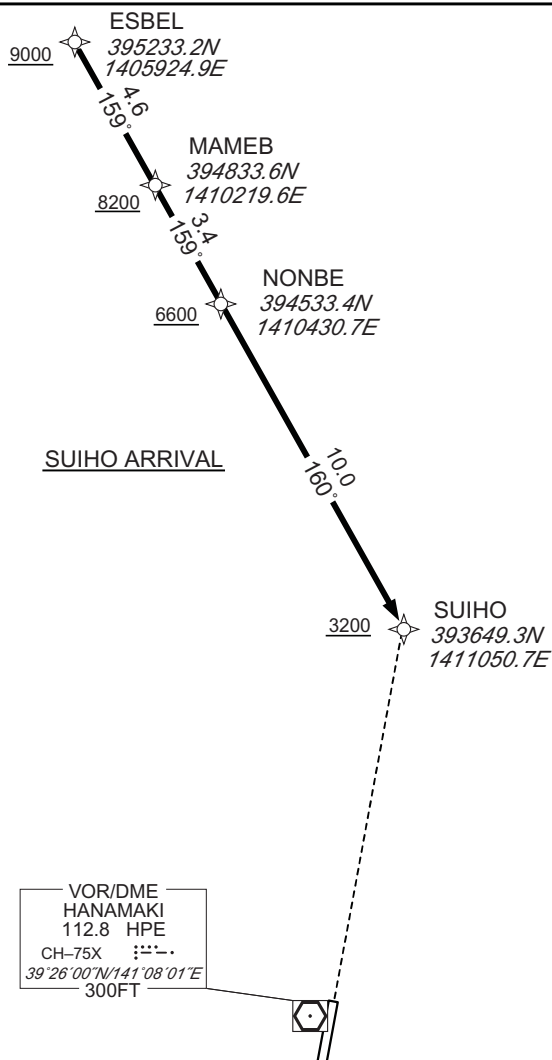
RNAV STAR RWY20

## SUIHO ARRIVAL

Basic RNP1

Note GNSS required.

VAR 9°W (2021)



## SUIHO ARRIVAL

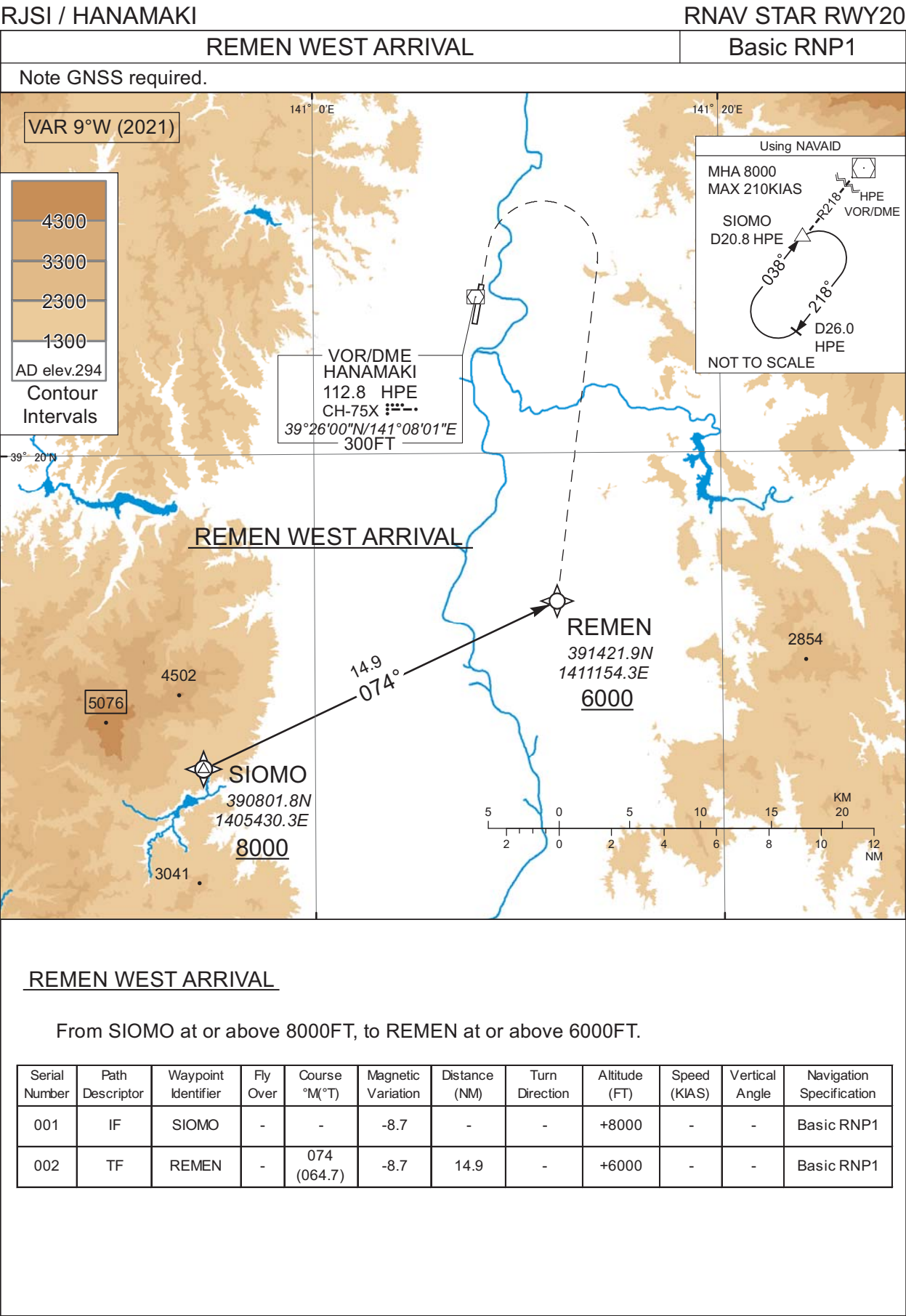
From ESBEL at or above 9000FT, to MAMEB at or above 8200FT, to NONBE at or above 6600FT, to SUIHO at or above 3200FT.

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	ESBEL	—	—	-8.7	—	—	+9000	—	—	Basic RNP1
002	TF	MAMEB	—	159 (150.7)	-8.7	4.6	—	+8200	—	—	Basic RNP1
003	TF	NONBE	—	159 (150.8)	-8.7	3.4	—	+6600	—	—	Basic RNP1
004	TF	SUIHO	—	160 (150.8)	-8.7	10.0	—	+3200	—	—	Basic RNP1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	ESBEL	174 (165.3)	-8.7	1.0(-14000)	R	9000	FL140	-230 (-14000)	Basic RNP1

CHANGE : VAR. Course FM NONBE to SUIHO. HLDG pattern(Using NAVAID) abolished. HLDG pattern(RNAV) established. Coding table(Hold) added.

STANDARD ARRIVAL CHART - INSTRUMENT



**INTENTIONALLY LEFT BLANK**

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

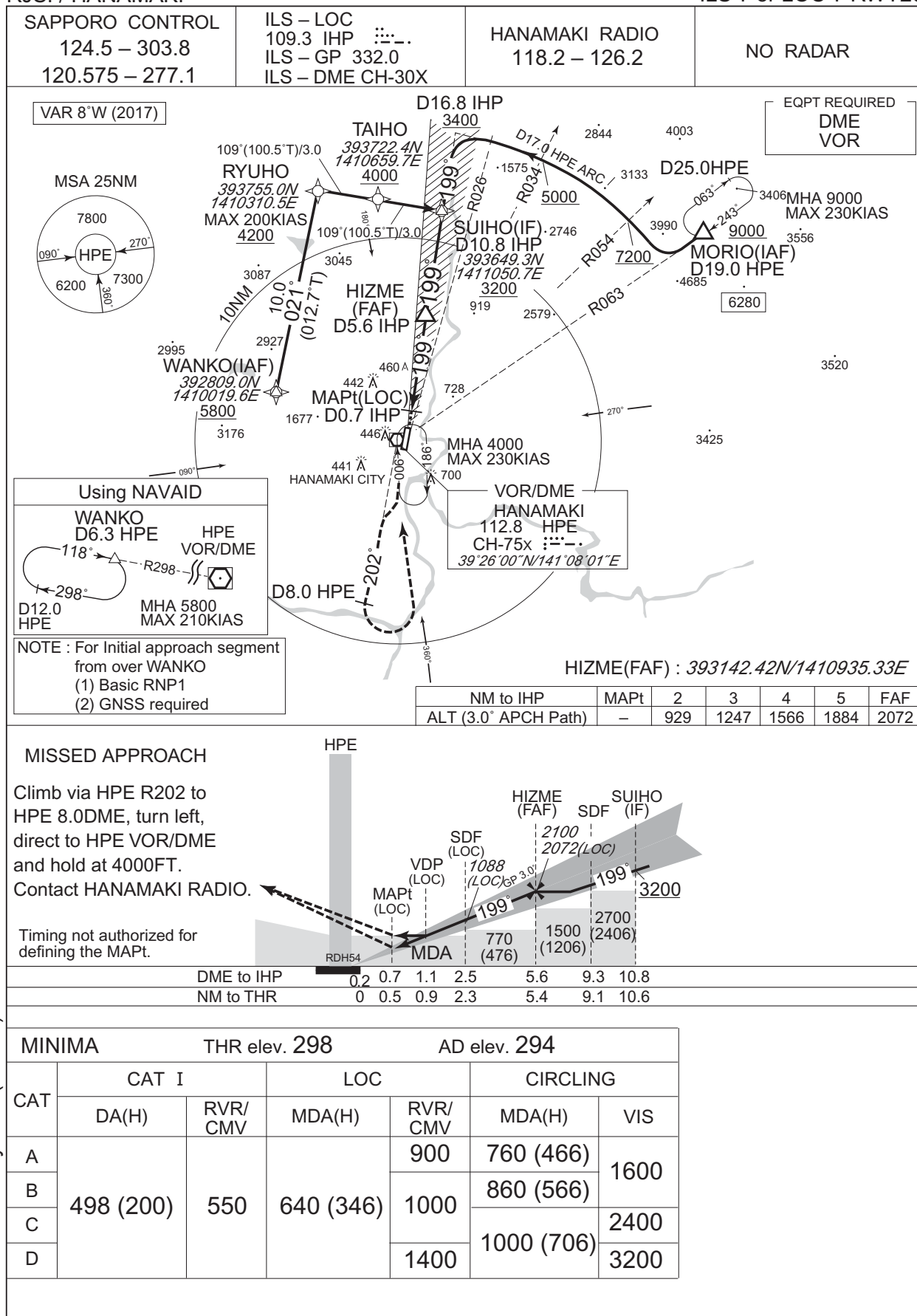
ILS Z or LOC Z RWY20



## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

ILS Y or LOC Y RWY20

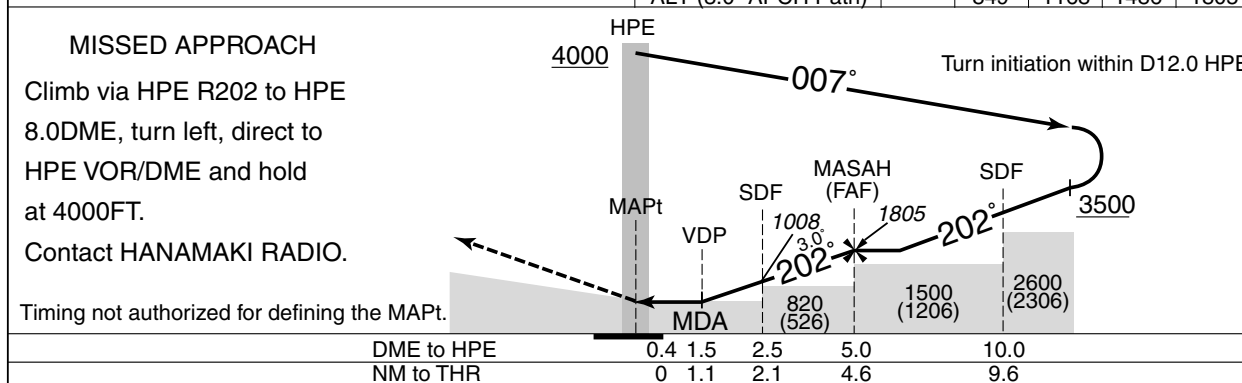
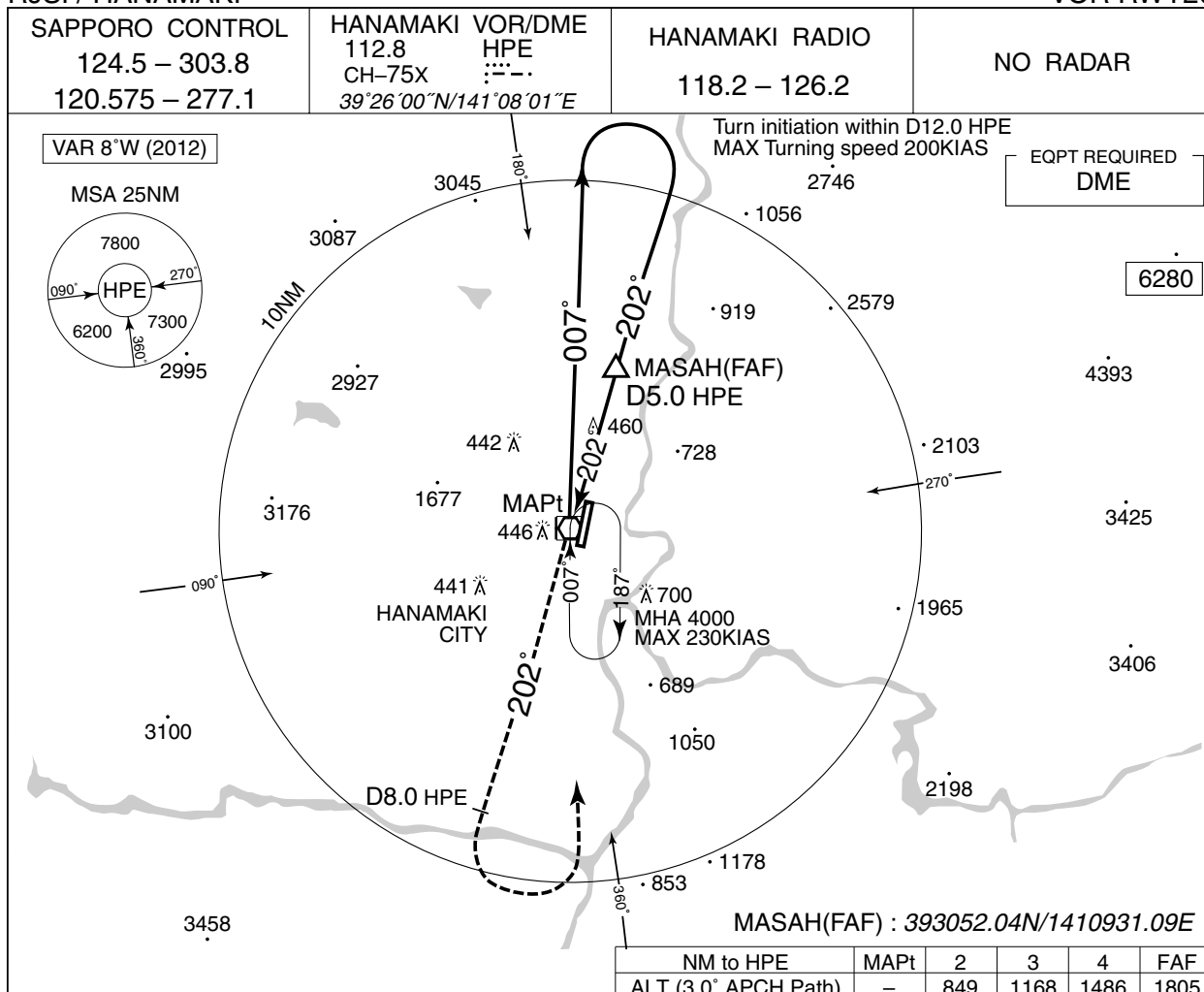


CHANGE : FIX symbol (HLDG)

INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

VOR RWY20



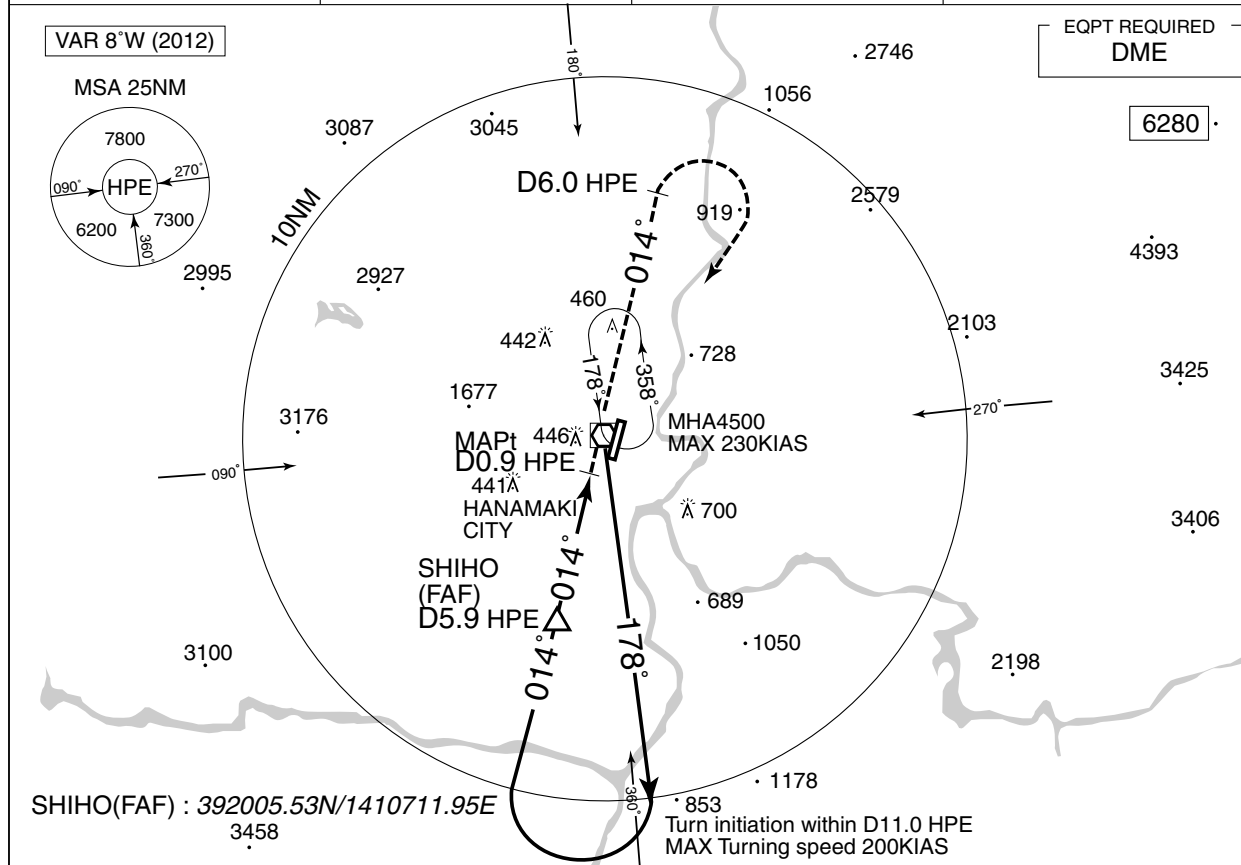
MINIMA		THR elev. 298	AD elev. 294	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	690 (396)	900	760 (466)	1600
B		1000	860 (566)	
C			1000 (706)	2400
D		1400		3200

## INSTRUMENT APPROACH CHART

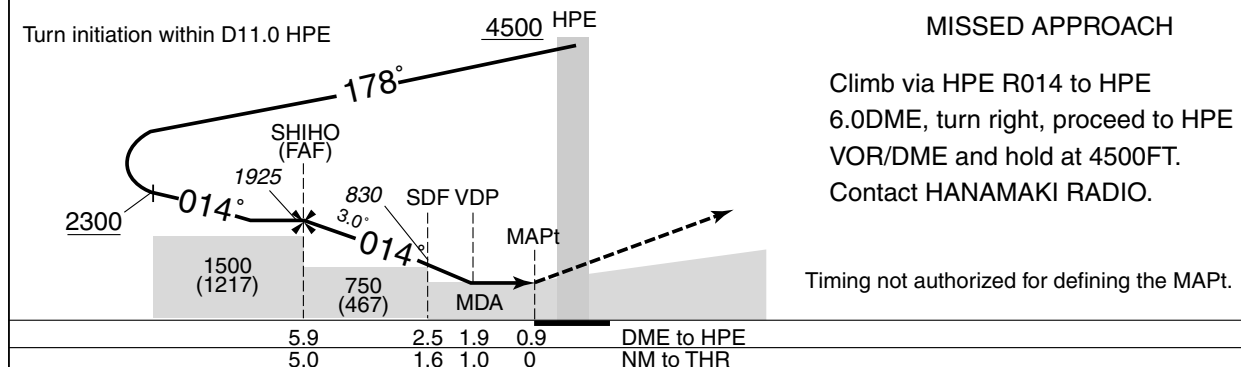
RJSI / HANAMAKI

VOR RWY02

SAPPORO CONTROL 124.5 – 303.8 120.575 – 277.1	HANAMAKI VOR/DME 112.8 HPE CH-75X 39°26'00"N/141°08'01"E	HANAMAKI RADIO 118.2 – 126.2	NO RADAR
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NM to HPE	FAF	5	4	3	2	MAPt
ALT (3.0° APCH Path)	1925	1626	1308	989	671	—



Missed APCH climb gradient MNM 3.6%

MINIMA		THR elev. 283	AD elev. 294
CAT	CIRCLING		VIS
	MDA(H)	CMV	MDA(H)
A	640 (357)	1200	760 (466)
B		1300	860 (566)
C		1400	1000 (706)
D	650 (367)	1600	1000 (706)

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



## RJSI / HANAMAKI

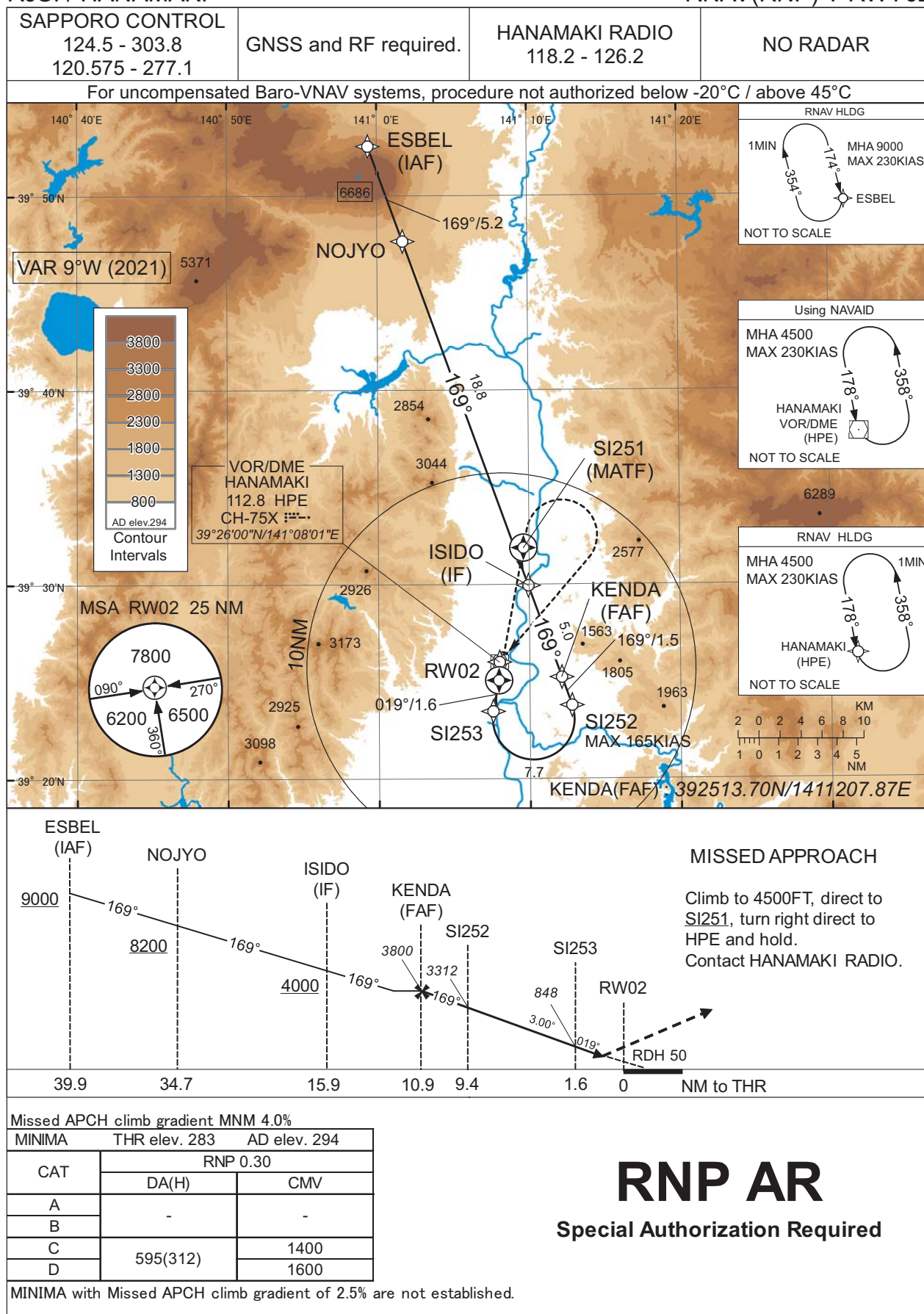
RNAV(GNSS) Z RWY02

CHANGE : PROC renamed. VAR. Course FM REMEN to NITBE.

## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNAV(RNP) Y RWY02



CHANGE : New PROC.

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNAV(RNP) Y RWY02

RNAV(RNP) Y RWY02Coding 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	ESBEL	-	-	-8.7	-	-	+9000	-	-	-
002	TF	NOJYO	-	169 (160.2)	-8.7	5.2	-	+8200	-	-	1.0
003	TF	ISIDO	-	169 (160.2)	-8.7	18.8	-	+4000	-	-	1.0
004	TF	KENDA	-	169 (160.3)	-8.7	5.0	-	3800	-	-	1.0
005	TF	SI252	-	169 (160.4)	-8.7	1.5	-	3312	-165	-3.00	0.3
006	RF Center: SIRF1 r=2.10NM	SI253	-	-	-8.7	7.7	R	848	-	-3.00	0.3
007	TF	RW02	Y	019 (010.7)	-8.7	1.6	-	333	-	-3.00/50	0.3
008	DF	SI251	Y	-	-8.7	-	-	-	-	-	1.0
009	DF	HPE	-	-	-8.7	-	R	4500	-	-	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	ESBEL	174 (165.3)	-8.7	1.0 (-14000)	R	9000	FL140	-230 (-14000)	1.0
Hold	HPE	178 (169.7)	-8.7	1.0 (-14000)	L	4500	FL140	-230 (-14000)	1.0

Waypoint Coordinates

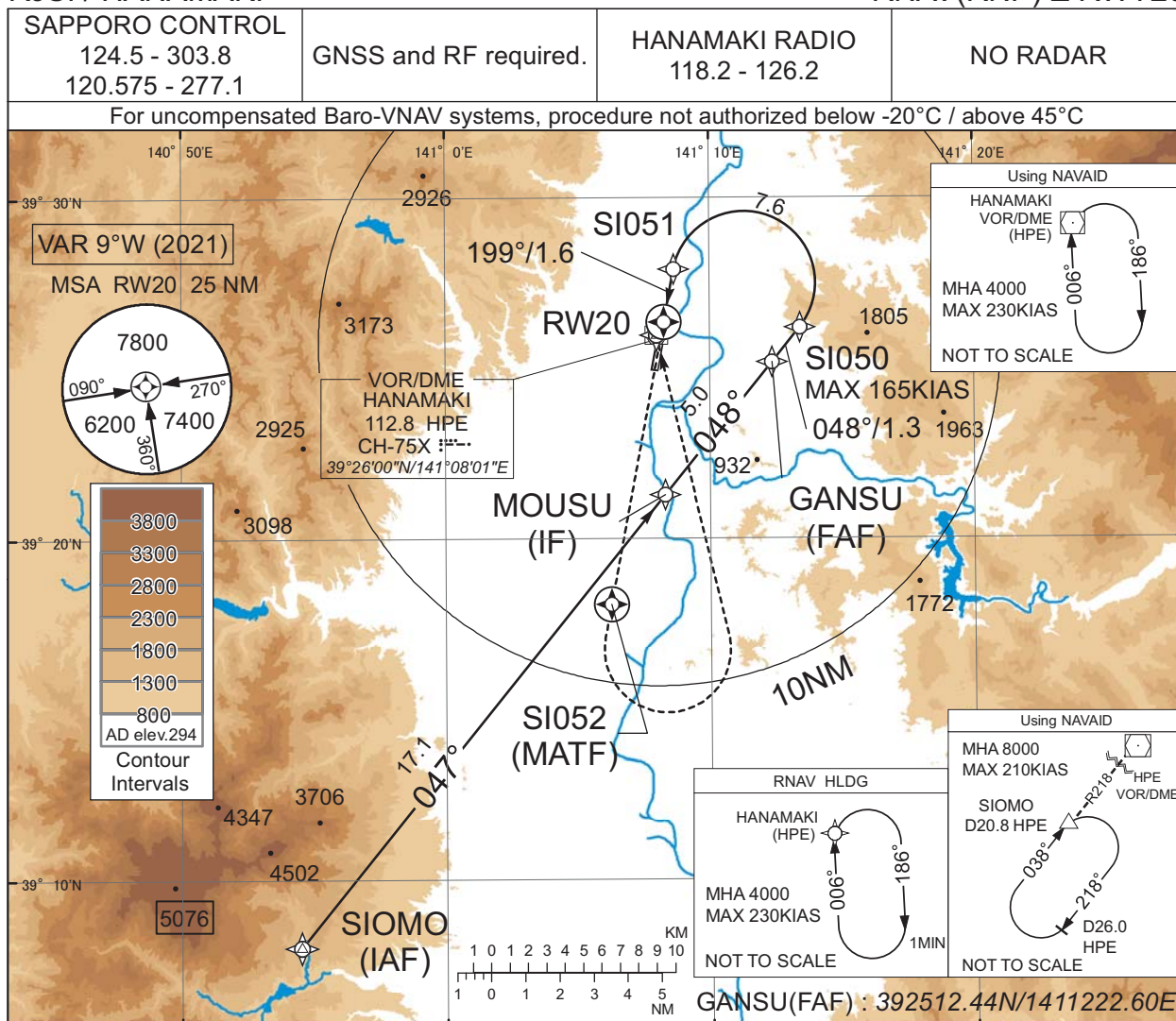
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ESBEL	395233.23N / 1405924.90E	SIRF1	392304.37N / 1411014.42E
NOJYO	394739.56N / 1410142.35E		
ISIDO	392956.45N / 1410957.05E		
KENDA	392513.70N / 1411207.87E		
SI252	392347.07N / 1411247.89E		
SI253	392327.97N / 1410734.24E		
RW02	392503.58N / 1410757.62E		
SI251	393152.68N / 1410937.82E		
HPE	392600.09N / 1410800.60E		

CHANGE : New PROC.

## INSTRUMENT APPROACH CHART

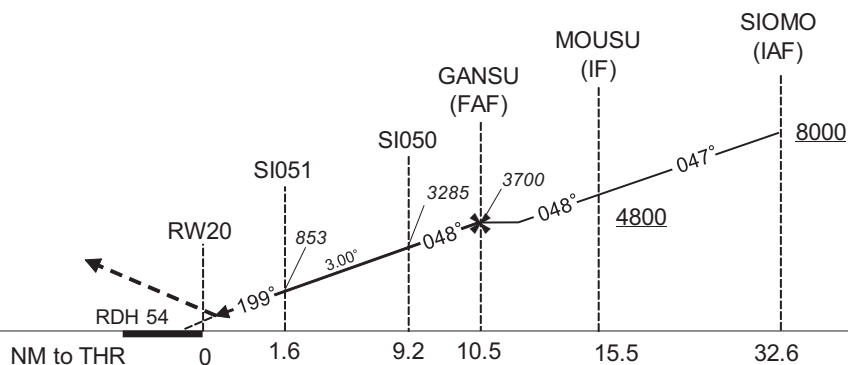
RJSI / HANAMAKI

RNAV(RNP) Z RWY20



## MISSED APPROACH

Climb to 4000FT, direct to  
SI052, turn left direct to HPE  
and hold.  
Contact HANAMAKI RADIO.



CHANGE : New PROC.

MINIMA	THR elev. 298	AD elev. 294
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	607(309)	1000
D		1400

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNAV(RNP) Z RWY20

RNAV(RNP) Z RWY20Coding 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	SIOMO	-	-	-8.7	-	-	+8000	-	-	-
002	TF	MOUSU	-	047 (038.8)	-8.7	17.1	-	+4800	-	-	1.0
003	TF	GANSU	-	048 (038.9)	-8.7	5.0	-	3700	-	-	1.0
004	TF	SI050	-	048 (038.9)	-8.7	1.3	-	3285	-165	-3.00	0.3
005	RF Center: SIRF2 r=2.10NM	SI051	-	-	-8.7	7.6	L	853	-	-3.00	0.3
006	TF	RW20	Y	199 (190.7)	-8.7	1.6	-	352	-	-3.00/54	0.3
007	DF	SI052	Y	-	-8.7	-	-	-	-	-	1.0
008	DF	HPE	-	-	-8.7	-	L	4000	-	-	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	HPE	006 (357.5)	-8.7	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SIOMO	390801.78N / 1405430.28E	SIRF2	392732.73N / 1411119.82E
MOUSU	392119.11N / 1410818.81E		
GANSU	392512.44N / 1411222.60E		
SI050	392613.23N / 1411326.21E		
SI051	392756.30N / 1410839.89E		
RW20	392623.24N / 1410817.11E		
SI052	391806.42N / 1410615.76E		
HPE	392600.09N / 1410800.60E		

CHANGE : New PROC.



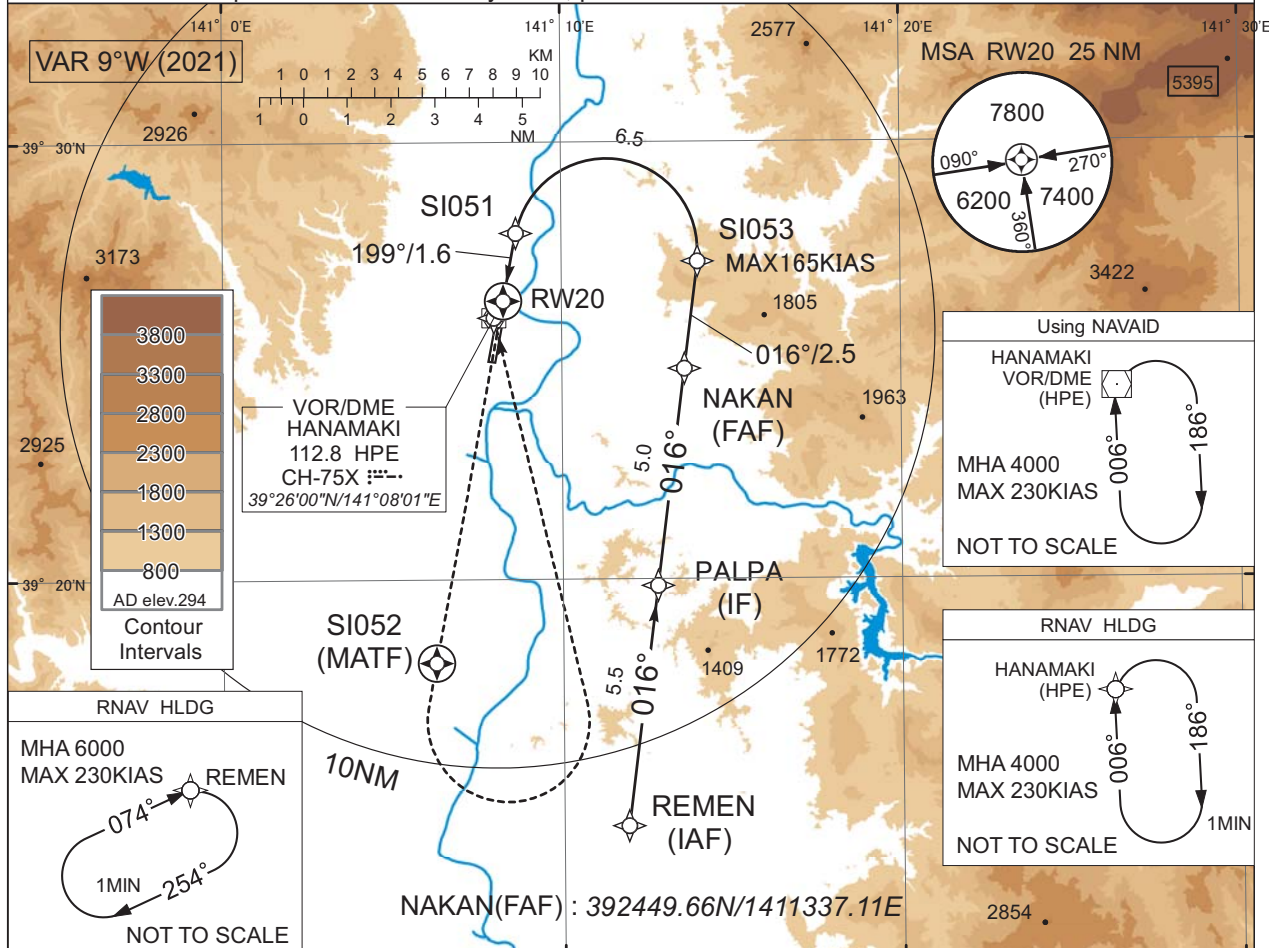
## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNAV(RNP) Y RWY20

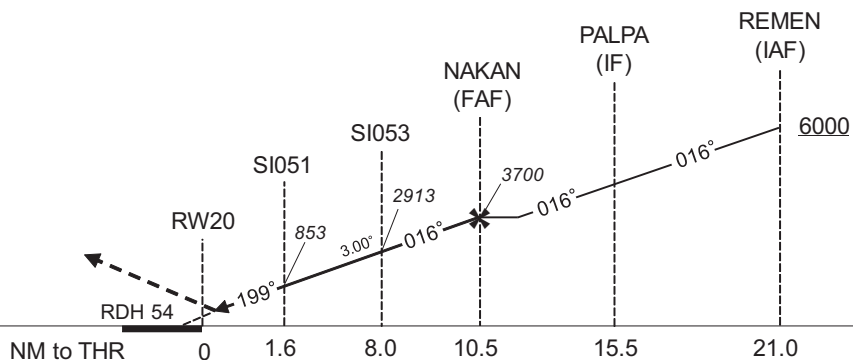
SAPPORO CONTROL 124.5 - 303.8 120.575 - 277.1	GNSS and RF required	HANAMAKI RADIO 118.2 - 126.2	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



## MISSED APPROACH

Climb to 4000FT, direct to  
SI052, turn left direct to HPE  
and hold.  
Contact HANAMAKI RADIO.



CHANGE : New PROC.

MINIMA	THR elev. 298	AD elev. 294
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B	-	-
C	607(309)	1000
D		1400

# RNP AR

Special Authorization Required

## INSTRUMENT APPROACH CHART

RJSI / HANAMAKI

RNAV(RNP) Y RWY20

RNAV(RNP) Y RWY20Coding 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	REMEN	-	-	-8.7	-	-	+6000	-	-	-
002	TF	PALPA	-	016 (007.2)	-8.7	5.5	-	-	-	-	1.0
003	TF	NAKAN	-	016 (007.2)	-8.7	5.0	-	3700	-	-	1.0
004	TF	SI053	-	016 (007.2)	-8.7	2.5	-	2913	-165	-3.00	0.3
005	RF Center: SIRF2 r=2.10NM	SI051	-	-	-8.7	6.5	L	853	-	-3.00	0.3
006	TF	RW20	Y	199 (190.7)	-8.7	1.6	-	352	-	-3.00/54	0.3
007	DF	SI052	Y	-	-8.7	-	-	-	-	-	1.0
008	DF	HPE	-	-	-8.7	-	L	4000	-	-	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	REMEN	074 (065.0)	-8.7	1.0 (-14000)	R	6000	FL140	-230 (-14000)	1.0
Hold	HPE	006 (357.5)	-8.7	1.0 (-14000)	R	4000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
REMEN	391421.92N / 1411154.27E	SIRF2	392732.73N / 1411119.82E
PALPA	391951.68N / 1411248.23E		
NAKAN	392449.66N / 1411337.11E		
SI053	392716.81N / 1411401.29E		
SI051	392756.30N / 1410839.89E		
RW20	392623.24N / 1410817.11E		
SI052	391806.42N / 1410615.76E		
HPE	392600.09N / 1410800.60E		

CHANGE : New PROC.

RJSI / HANAMAKI

Visual REP



※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).

CHANGE : Map updated. BRG/DIST from ARP. Taseko established. Tsuchisawa abolished.

Call sign	BRG / DIST from ARP	Remarks
盛岡 Morioka	360°T / 16.4NM	JR駅 JR Station
城山 Shiroyama	012°T / 8.4NM	城跡 The site of a castle
豊沢 Toyosawa	293°T / 8.1NM	豊沢ダム Dam
田瀬湖 Taseko	121°T / 10.0NM	田瀬ダム Dam
北上 Kitakami	184°T / 8.9NM	JR駅 JR Station
水沢 Mizusawa	178°T / 17.4NM	JR駅 JR Station





RJSI / HANAMAKI

Minimum Vectoring Altitude CHART

