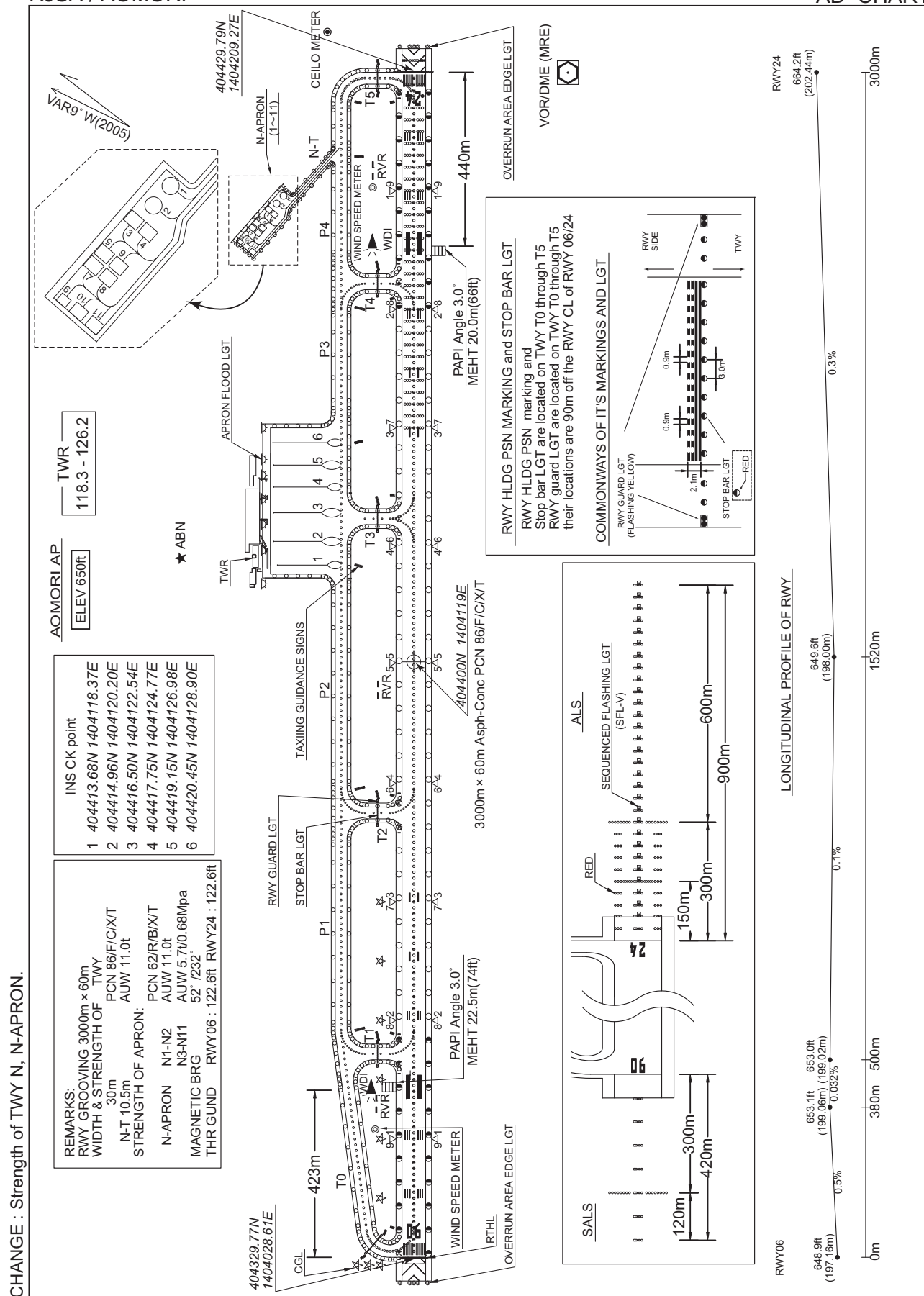
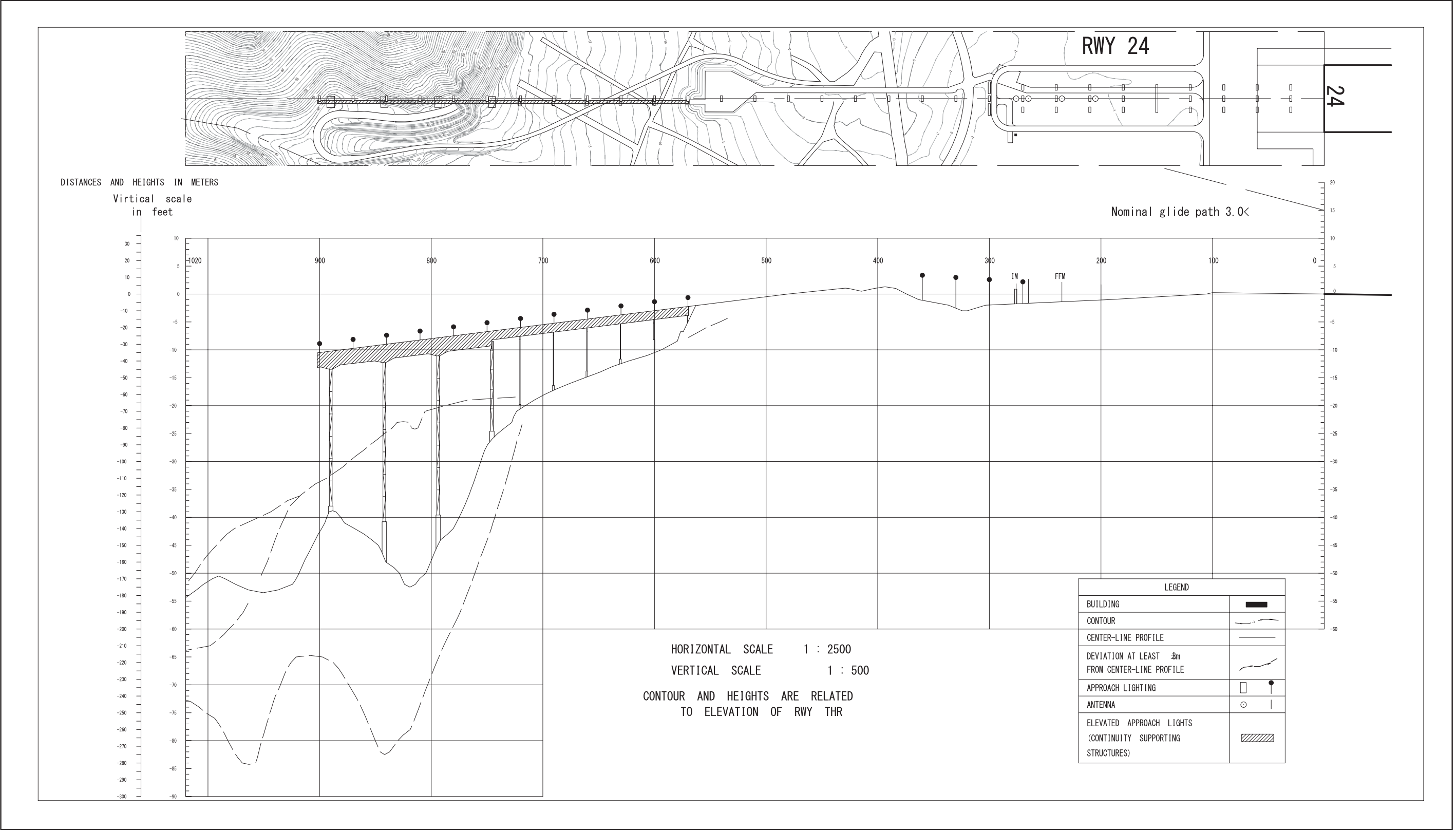


## AD CHART



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PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

SID and TRANSITION

IWAKI SEVEN DEPARTURE

- RWY06 : Climb RWY HDG to 1100FT, turn left HDG 292° to intercept and proceed via MRE R331 to 12.0DME, turn left, via HWE R208 to GONOU.  
Cross MRE R331/8.0DME at or above 3600FT, cross HWE R208/63.0DME at or above 7000FT, cross GONOU at or above 9000FT.
- RWY24 : Climb RWY HDG to 1200FT, via MRE R239 to GONOU.  
Cross GONOU at or above 9000FT.

Note RWY24 : No turn before DER.

5.0% climb gradient required up to 1200FT.

OBST ALT 782FT located at 0.8NM 223° FM end of RWY24.

YUWA TRANSITION

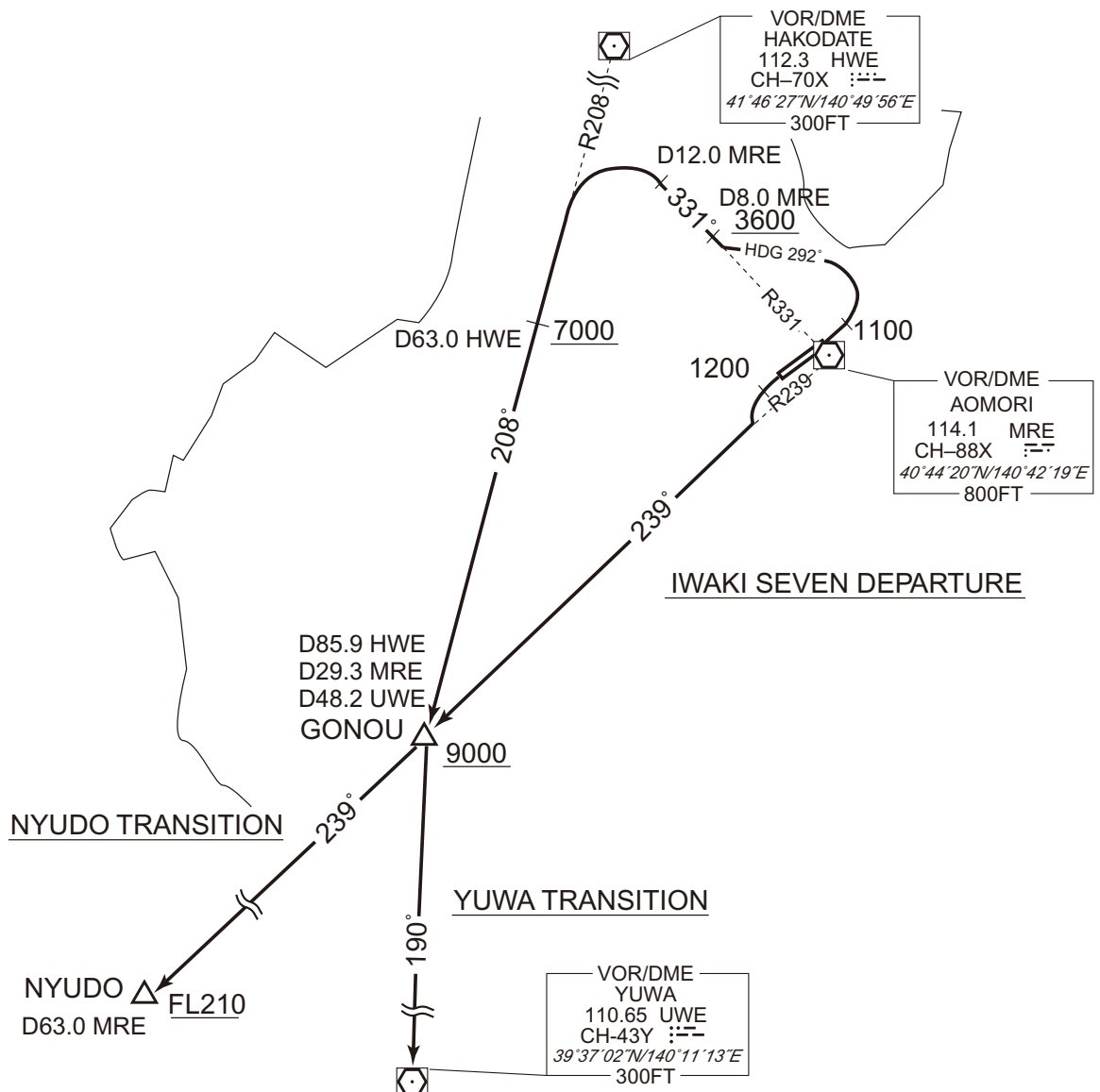
From over GONOU, via UWE R010 to UWE VOR/DME.

NYUDO TRANSITION

From over GONOU, via MRE R239 to NYUDO.

Cross NYUDO at or above FL210.

CHANGE : PROC renamed(IWAKI SEVEN DEPARTURE). PROC course.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

SID

AOMORI REVERSAL THREE DEPARTURE

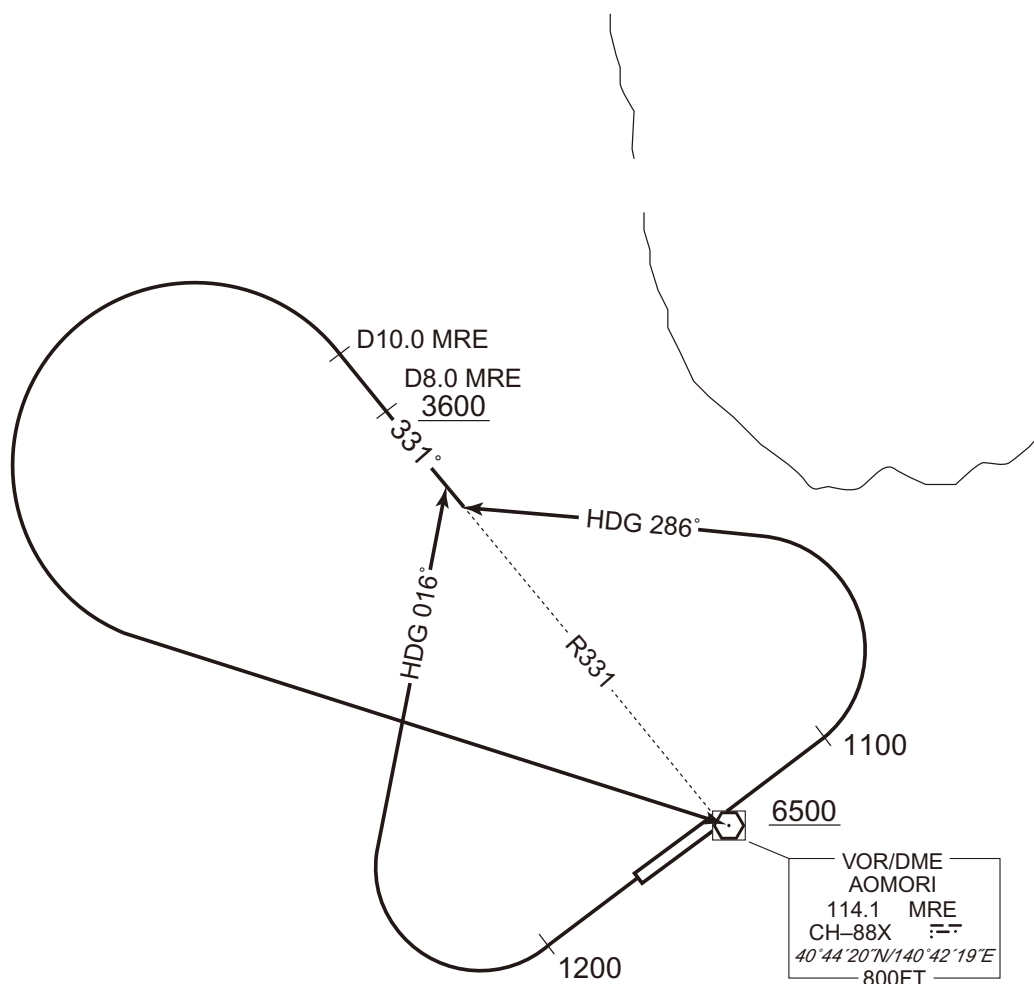
RWY06 : Climb RWY HDG to 1100FT, turn left HDG 286°...

RWY24 : Climb RWY HDG to 1200FT, turn right HDG 016°...

...to intercept and proceed via MRE R331 to 10.0DME, turn left,  
direct to MRE VOR/DME.Cross MRE R331/8.0DME at or above 3600FT, cross MRE VOR/DME  
at or above 6500FT.

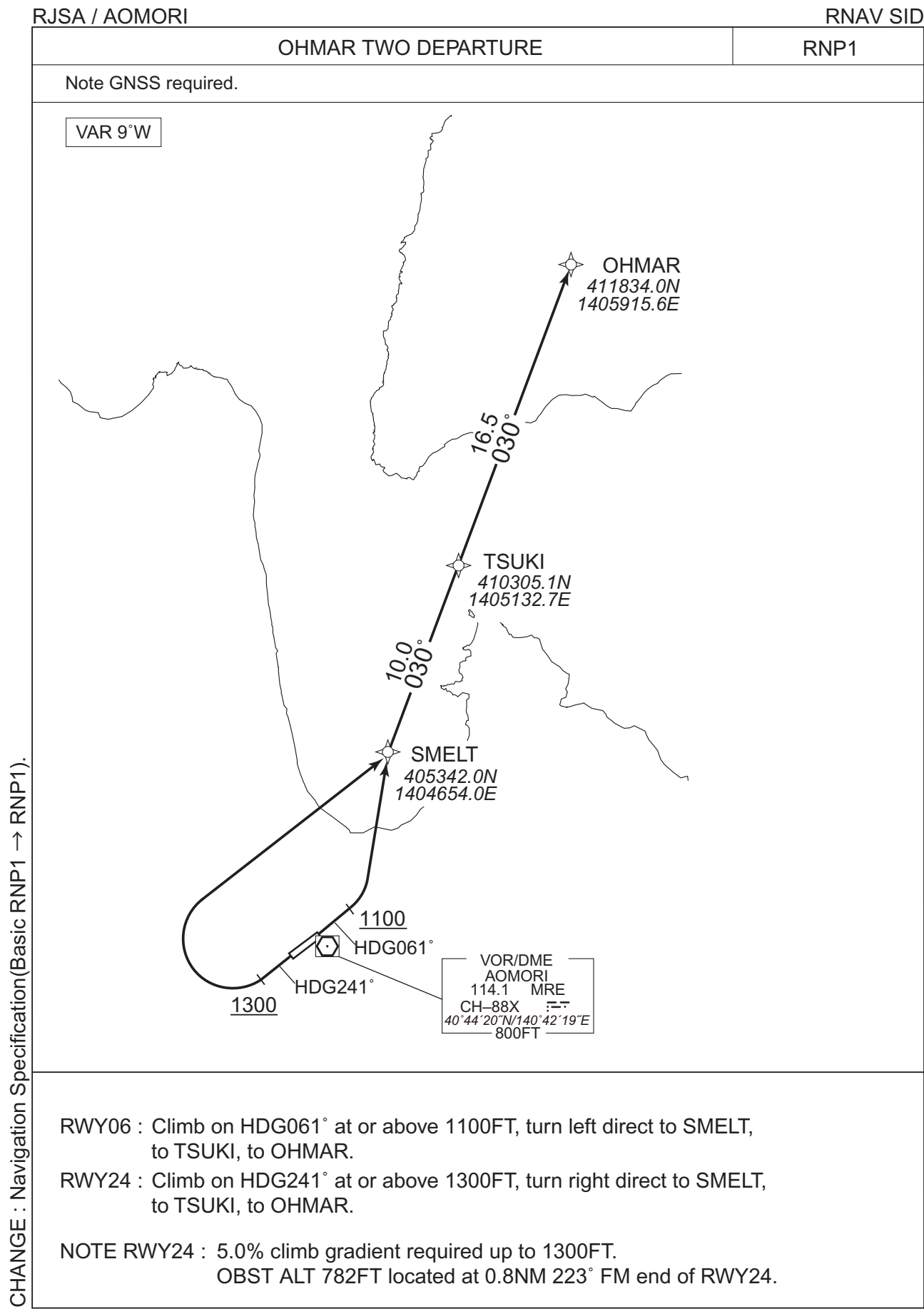
Note RWY24 : 5.0% climb gradient required up to 1200FT.

OBST ALT 782FT located at 0.8NM 223° FM end of RWY24.



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT



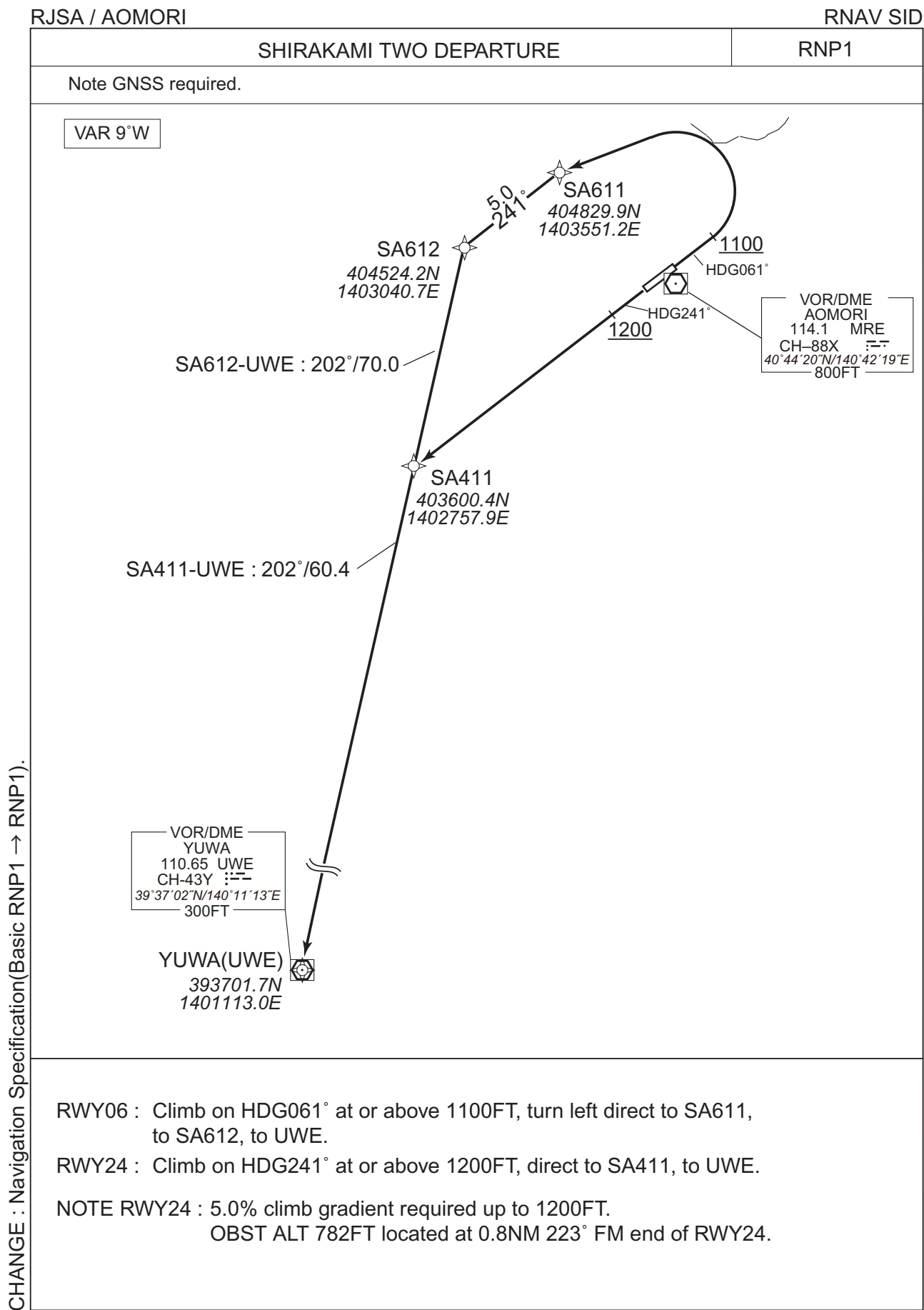
STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

RNAV SID

OHMAR TWO DEPARTURE											
RWY06											
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	-	-	061 (051.8)	-9.3	-	-	+1100	-	-	RNP1
002	DF	SMELT	-	-	-9.3	-	L	-	-	-	RNP1
003	TF	TSUKI	-	030 (020.5)	-9.3	10.0	-	-	-	-	RNP1
004	TF	OHMAR	-	030 (020.5)	-9.3	16.5	-	-	-	-	RNP1
RWY24											
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	-	-	241 (231.8)	-9.3	-	-	+1300	-	-	RNP1
002	DF	SMELT	-	-	-9.3	-	R	-	-	-	RNP1
003	TF	TSUKI	-	030 (020.5)	-9.3	10.0	-	-	-	-	RNP1
004	TF	OHMAR	-	030 (020.5)	-9.3	16.5	-	-	-	-	RNP1
CHANGE : Navigation Specification(Basic RNP1 → RNP1).											

STANDARD DEPARTURE CHART-INSTRUMENT





STANDARD DEPARTURE CHART-INSTRUMENT

RJSA / AOMORI

RNAV SID

SHIRAKAMI TWO DEPARTURE

RWY06

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	-	-	061 (051.8)	-9.3	-	-	+1100	-	-	RNP1
002	DF	SA611	-	-	-9.3	-	L	-	-	-	RNP1
003	TF	SA612	-	241 (231.7)	-9.3	5.0	-	-	-	-	RNP1
004	TF	UWE	-	202 (192.4)	-9.3	70.0	-	-	-	-	RNP1

RWY24

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	-	-	241 (231.8)	-9.3	-	-	+1200	-	-	RNP1
002	DF	SA411	-	-	-9.3	-	-	-	-	-	RNP1
003	TF	UWE	-	202 (192.3)	-9.3	60.4	-	-	-	-	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART-INSTRUMENT

RJSA / AOMORI

STAR

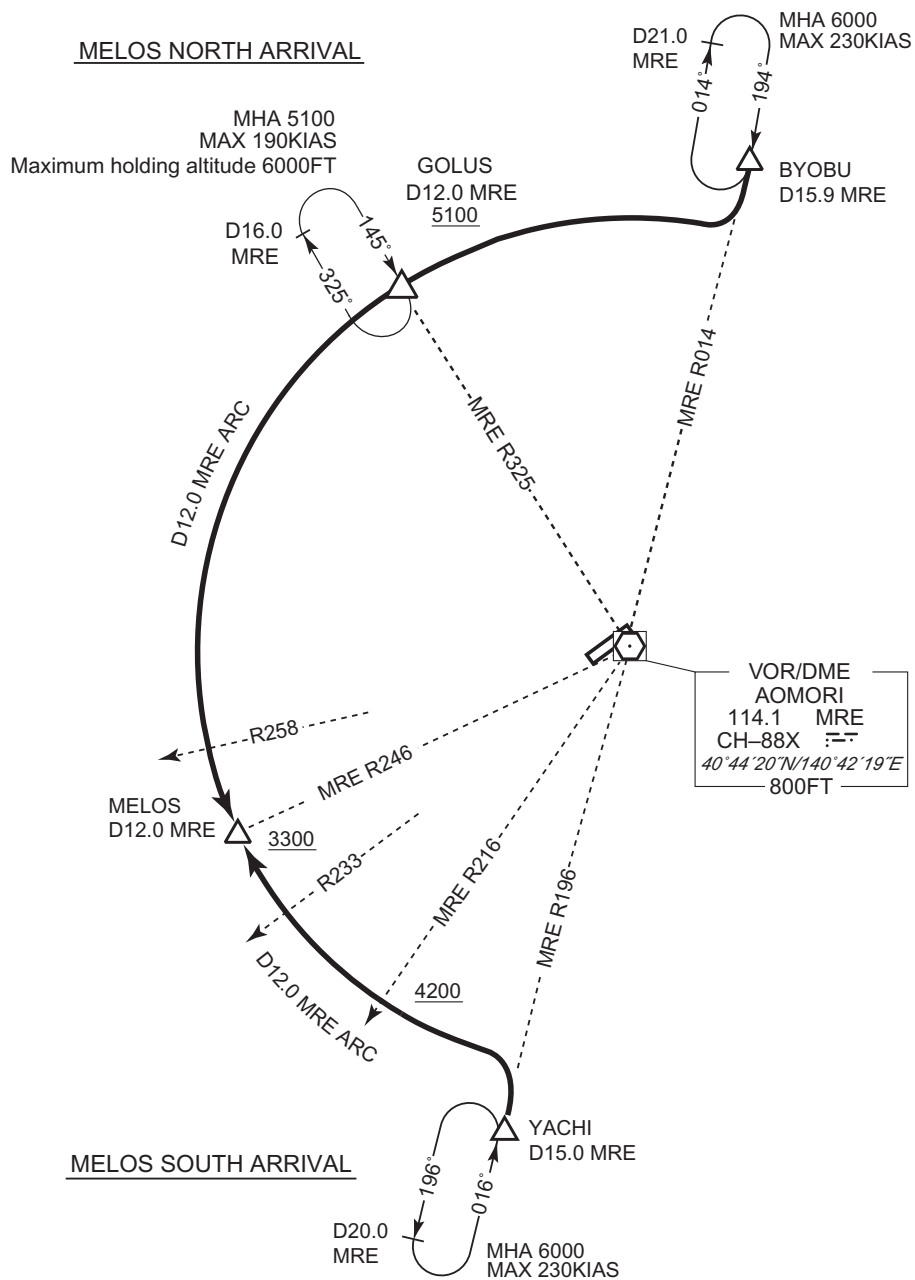
MELOS NORTH ARRIVAL

From over BYOBU, proceed via MRE 12.0DME counterclockwise ARC to MELOS via GOLUS.  
Cross GOLUS at or above 5100FT, cross MELOS at or above 3300FT.

MELOS SOUTH ARRIVAL

From over YACHI, proceed via MRE 12.0DME clockwise ARC to MELOS.  
Cross MRE R216 at or above 4200FT.  
Cross MELOS at or above 3300FT.

CHANGE : PROC course(MELOS NORTH ARRIVAL). GOLUS established.



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**RJSA / AOMORI**

<b>SHIRAKAMI APP</b> 119.25 - 315.3 - 120.65	<b>ILS-LOC</b> 111.9 IMR 331.1 <b>ILS-GP</b> 331.1 <b>ILS-DME</b> CH-56X	<b>AOMORI TOWER</b> 118.3 – 126.2	<b>RADAR AVBL</b>
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**VAR 9°W**

NOT TO SCALE  
MHA6000  
MAX 230KIAS

D21.0 MRE

MRE VOR/DME

MHA6000  
MAX 230KIAS

MRE VOR/DME

NOT TO SCALE

MSA 25NM

BYOBU (IAF)  
D15.9 MRE

OHRIN (FAF)  
D8.7 IMR

MAPt(LOC)  
D0.7 IMR

VOR/DME  
AOMORI  
114.1 MRE  
CH-88X

40°44'20"N/140°42'19"E

HOG241°  
D7.0 MRE

D14.0 MRE ARC

RINGO (IF)  
D14.2 IMR  
R060/D14.0 MRE

EQPT REQUIRED  
DME  
VOR

OHRIN(FAF) : 404945.91N / 1405100.82E

NM to IMR	MAPt	2	3	4	5	6	7	8	FAF
ALT (3.0° APCH Path)	-	1293	1612	1930	2249	2567	2886	3204	3434

**MISSED APPROACH**  
Climb on HDG241° to 1200FT,  
via MRE R241 to MRE 7.0DME,  
turn right, direct to MRE  
VOR/DME and hold at 6000FT.  
Contact SHIRAKAMI APP.

Timing not authorized for defining the MAPt.

VDP  
D1.1 IMR(CAT A,B)  
D1.2 IMR(CAT C)  
D1.3 IMR(CAT D)

MAPt VDP (LOC)(LOC)

SDF (LOC) OHRIN (FAF)

2694 (LOC) 3500 3434(LOC) 3500

MDA 1500 (850) 2900 (2250)

RDH54

DME to IMR	0.2	0.3	0.7	6.4	8.7	14.2
NM to THR	0	0.1	0.5	6.2	8.5	14.0

**Missed APCH climb gradient MNM 4.0%**

MINIMA		THR elev. 664			AD elev. 650					
CAT	CAT III	CAT II		CAT I		LOC		CIRCLING		
	RVR	DA(DH)	RA	RVR	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H) VIS	
A	100	764 (100)	92	300	864 (200)	550	990 (340)	900	1220 (570)	1600
B							1010 (360)	1000		2400
C							1030 (380)			
D							1050 (400)			

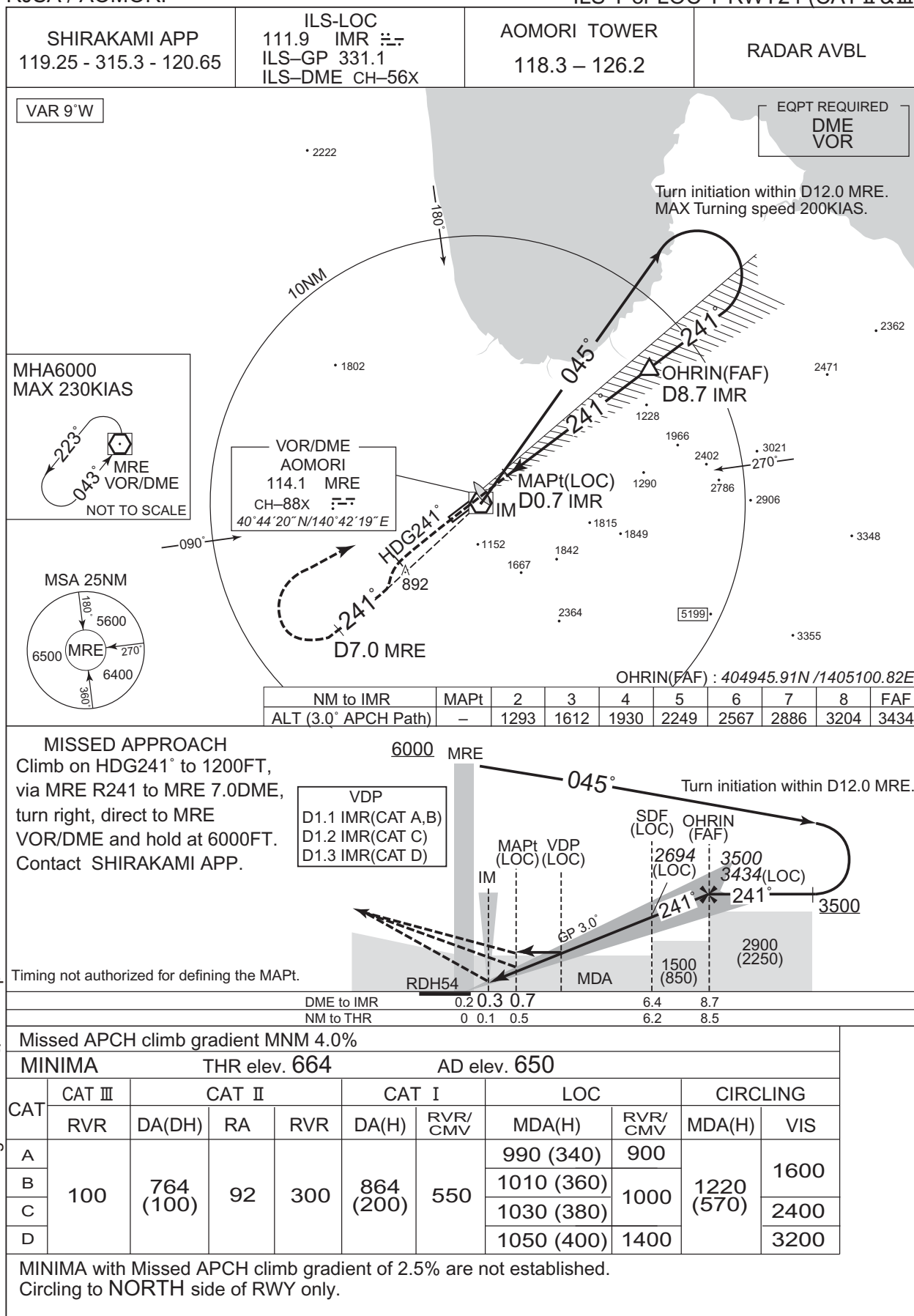
MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to NORTH side of RWY only.

CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

## INSTRUMENT APPROACH CHART

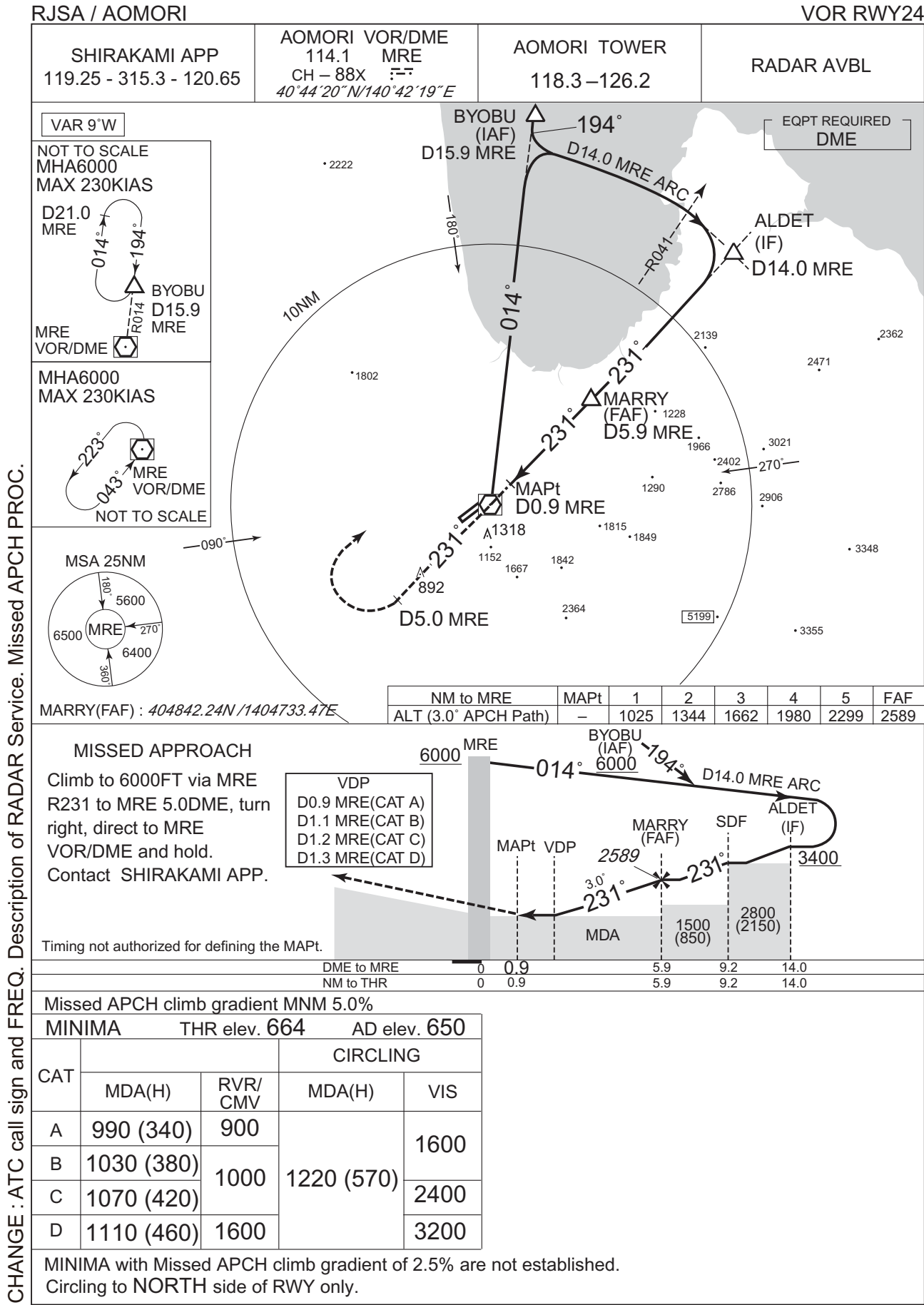
RJSA / AOMORI

ILS Y or LOC Y RWY24 (CAT II &amp; III)

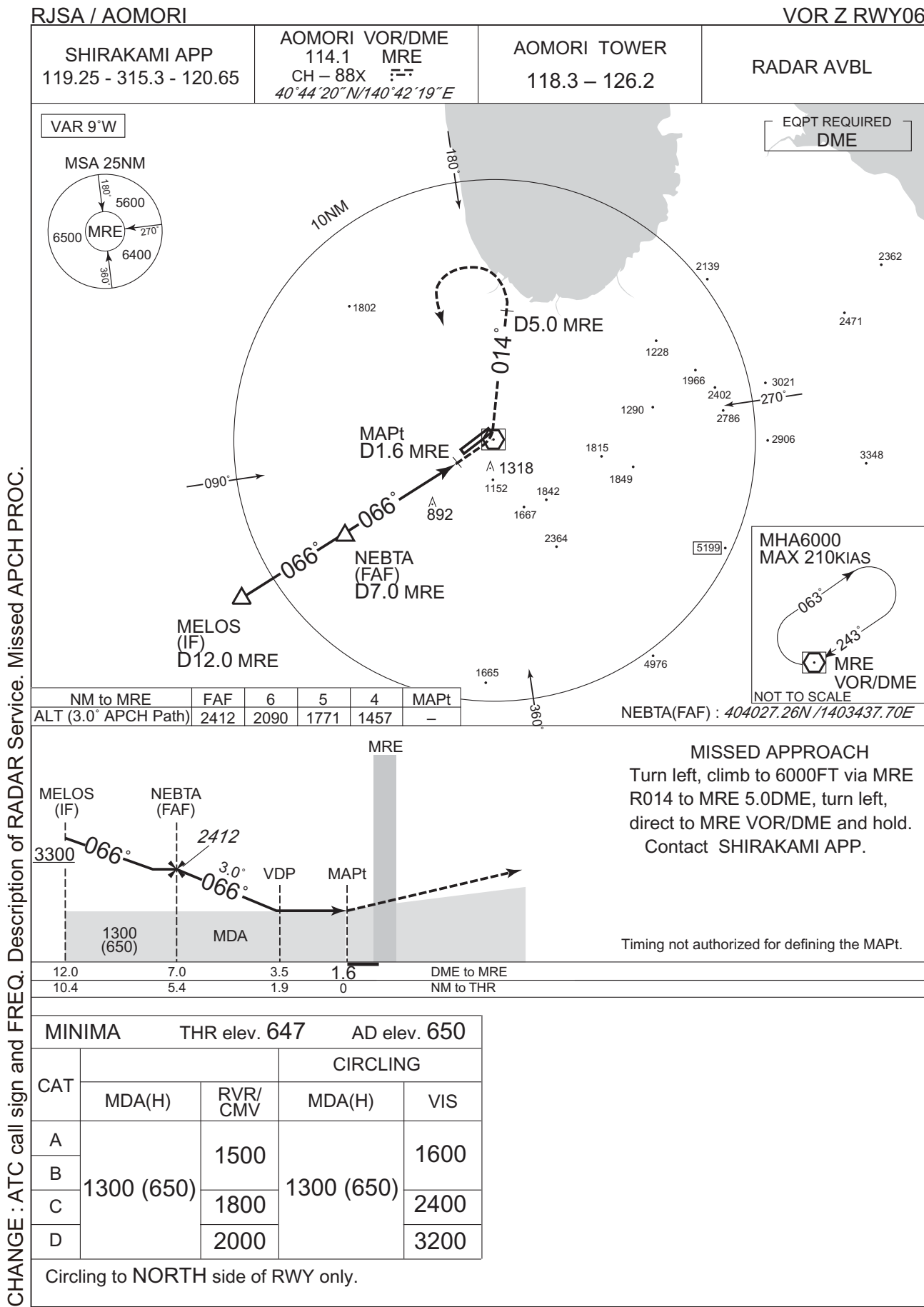


CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

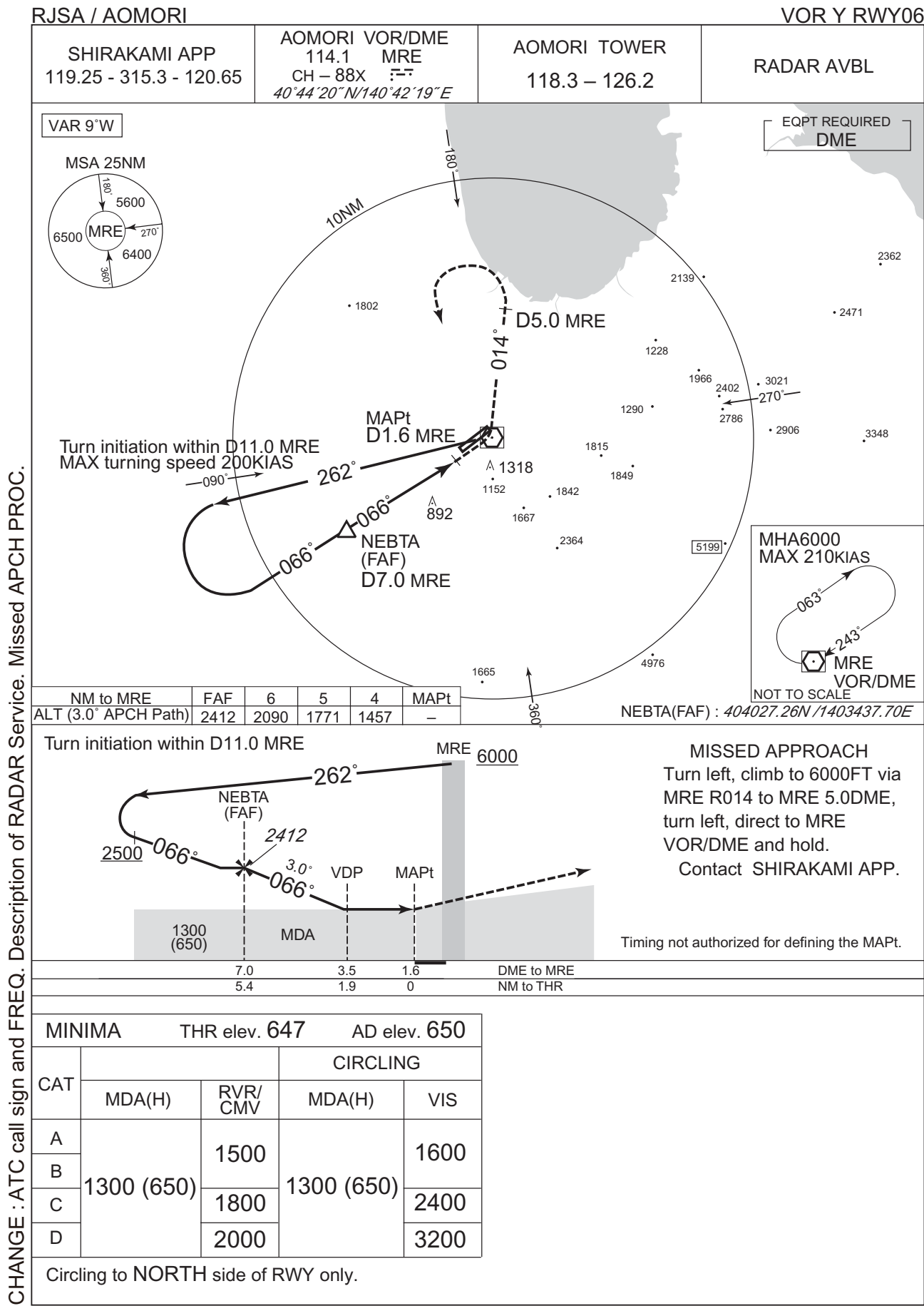


INSTRUMENT APPROACH CHART



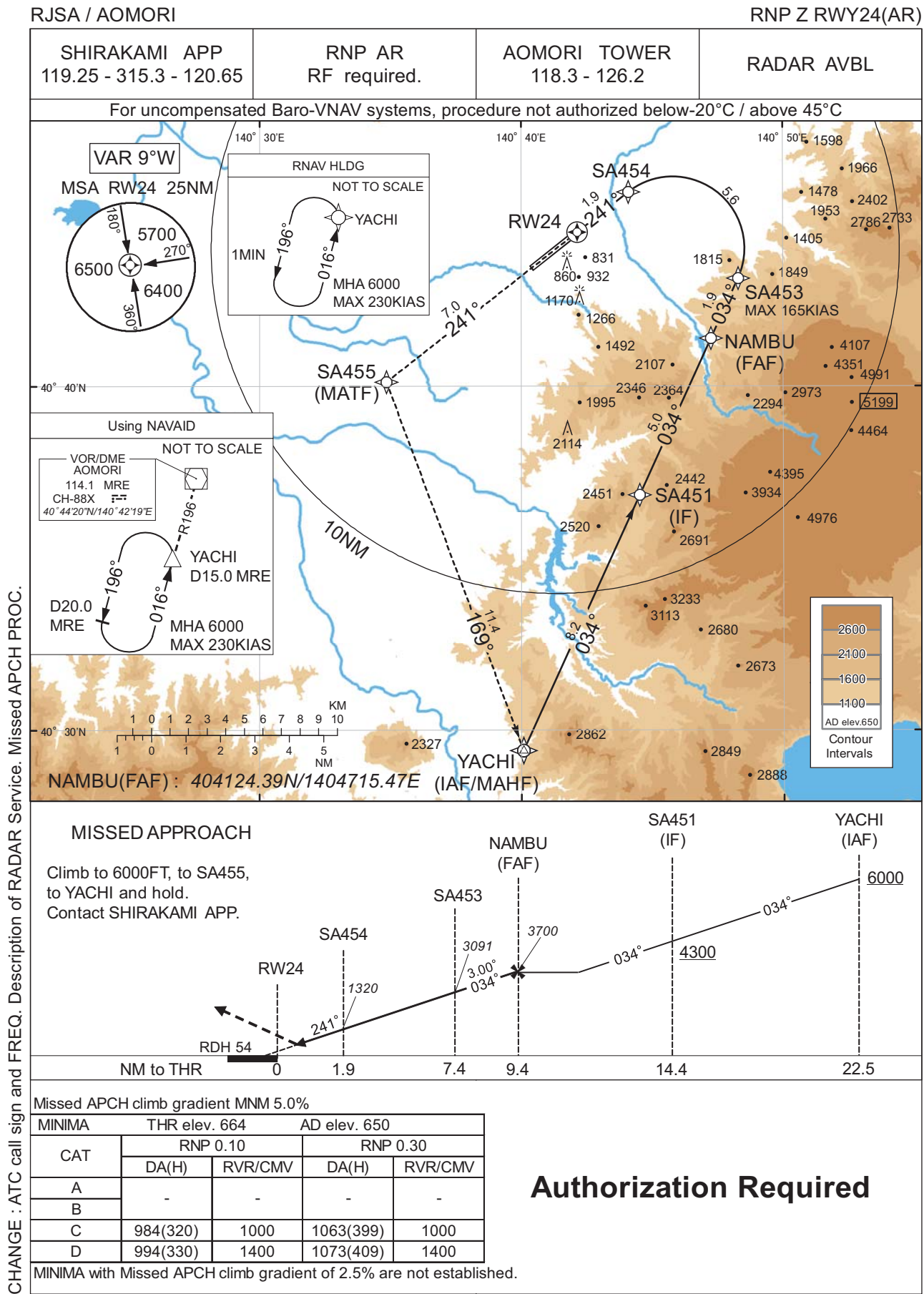
CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART





INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Z RWY24(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	YACHI	-	-	-9.3	-	-	+6000	-	-	-
002	TF	SA451	-	034 (024.4)	-9.3	8.2	-	+4300	-	-	1.0
003	TF	NAMBU	-	034 (024.5)	-9.3	5.0	-	3700	-	-	1.0
004	TF	SA453	-	034 (024.5)	-9.3	1.9	-	3091	-165	-3.00	0.10 0.30
005	RF Center: SARF1 r=2.09NM	SA454	-	-	-9.3	5.6	L	1320	-	-3.00	0.10 0.30
006	TF	RW24	Y	241 (231.8)	-9.3	1.9	-	718	-	-3.00/54	0.10 0.30
007	TF	SA455	-	241 (231.8)	-9.3	7.0	-	-	-	-	1.0
008	TF	YACHI	-	169 (159.7)	-9.3	11.4	-	6000	-	-	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	YACHI	016 (006.5)	-9.3	1.0 (-14000)	L	6000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

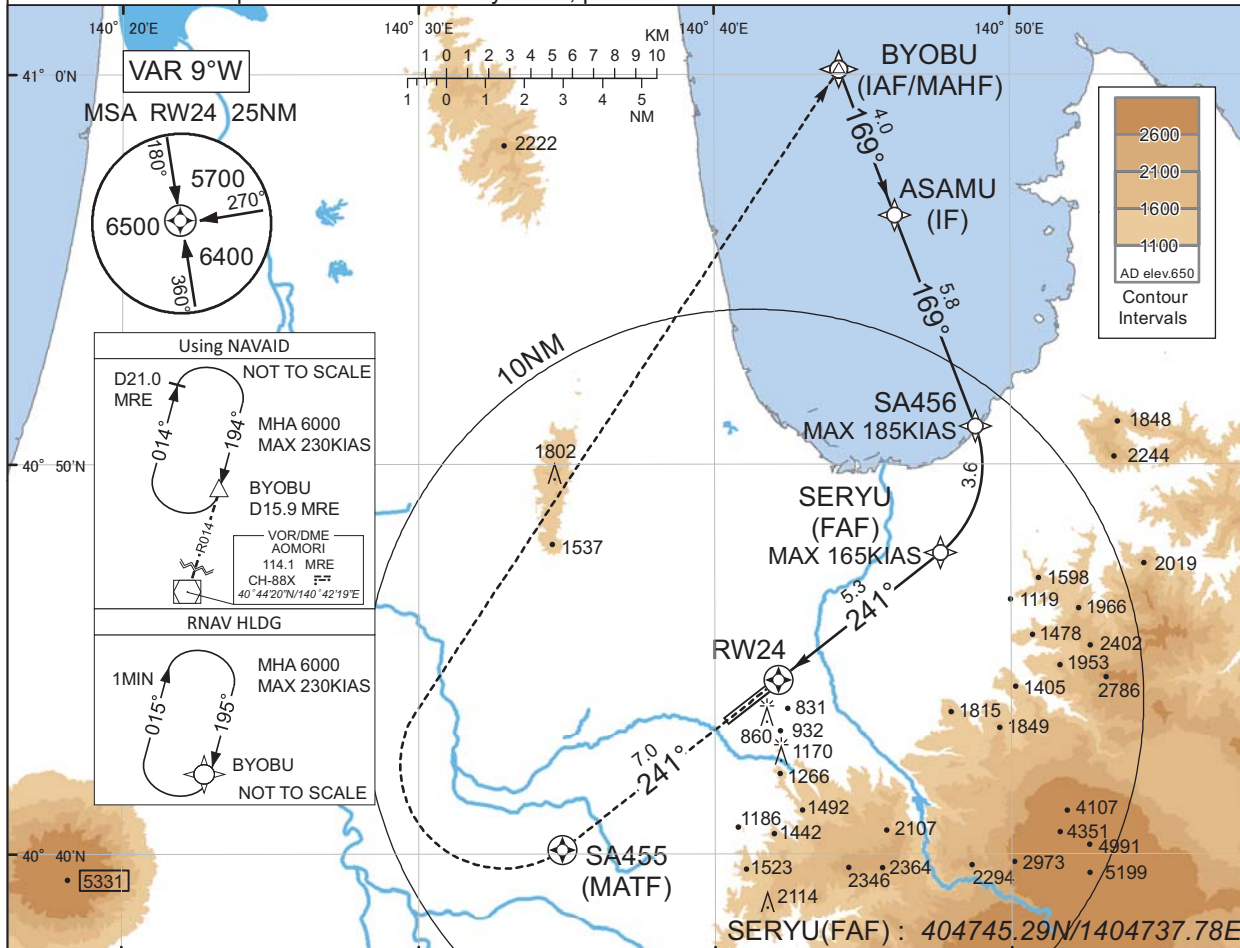
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
YACHI	402925.44N / 1404004.97E	SARF1	404400.99N / 1404548.34E
SA451	403651.24N / 1404431.58E		
NAMBU	404124.39N / 1404715.47E		
SA453	404308.85N / 1404818.25E		
SA454	404539.74N / 1404406.71E		
RW24	404429.79N / 1404209.27E		
SA455	404008.45N / 1403451.64E		

CHANGE : PROC course. VAR. RNAV HLDG established(YACHI).

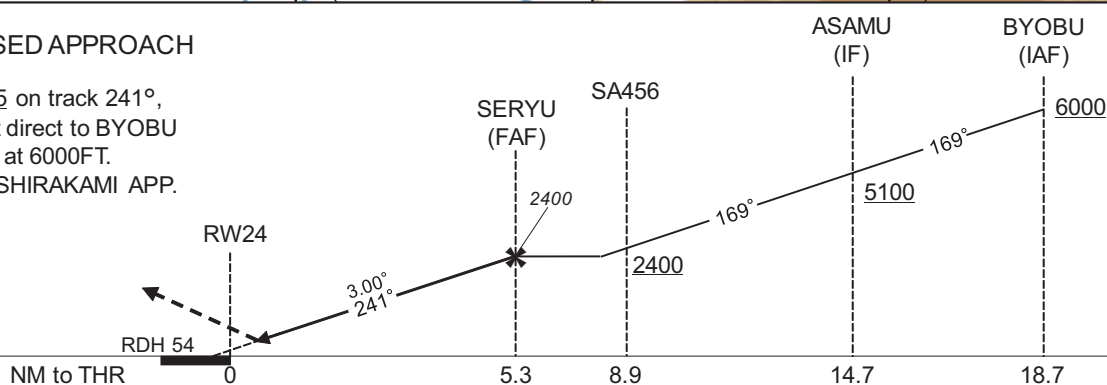
## RJSA / AOMORI

SHIRAKAMI APP 119.25 - 315.3 - 120.65	RNP AR RF required.	AOMORI TOWER 118.3 - 126.2	RADAR AVBL
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For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C



To SA455 on track 241°,  
turn right direct to BYOBU  
and hold at 6000FT.  
Contact SHIRAKAMI APP.



Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 664		AD elev. 650	
CAT	RNP 0.10		RNP 0.30		
	DA(H)	RVR/CMV	DA(H)	RVR/CMV	
A	-	-	-	-	
B					
C	984(320)	1000	1063(399)	1000	
D	994(330)	1400	1073(409)	1400	

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

## Authorization Required

## INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Y RWY24(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	BYOBU	-	-	-9.3	-	-	+6000	-	-	-
002	TF	ASAMU	-	169 (159.3)	-9.3	4.0	-	+5100	-	-	1.0
003	TF	SA456	-	169 (159.3)	-9.3	5.8	-	+2400	-185	-	0.3
004	RF Center: SARF3 r=2.83NM	SERYU	-	-	-9.3	3.6	R	2400	-165	-	0.3
005	TF	RW24	Y	241 (231.9)	-9.3	5.3	-	718	-	-3.00/54	0.10 0.30
006	CF	SA455	Y	241 (231.8)	-9.3	7.0	-	-	-	-	1.0
007	DF	BYOBU	-	-	-9.3	-	R	6000	-	-	1.0

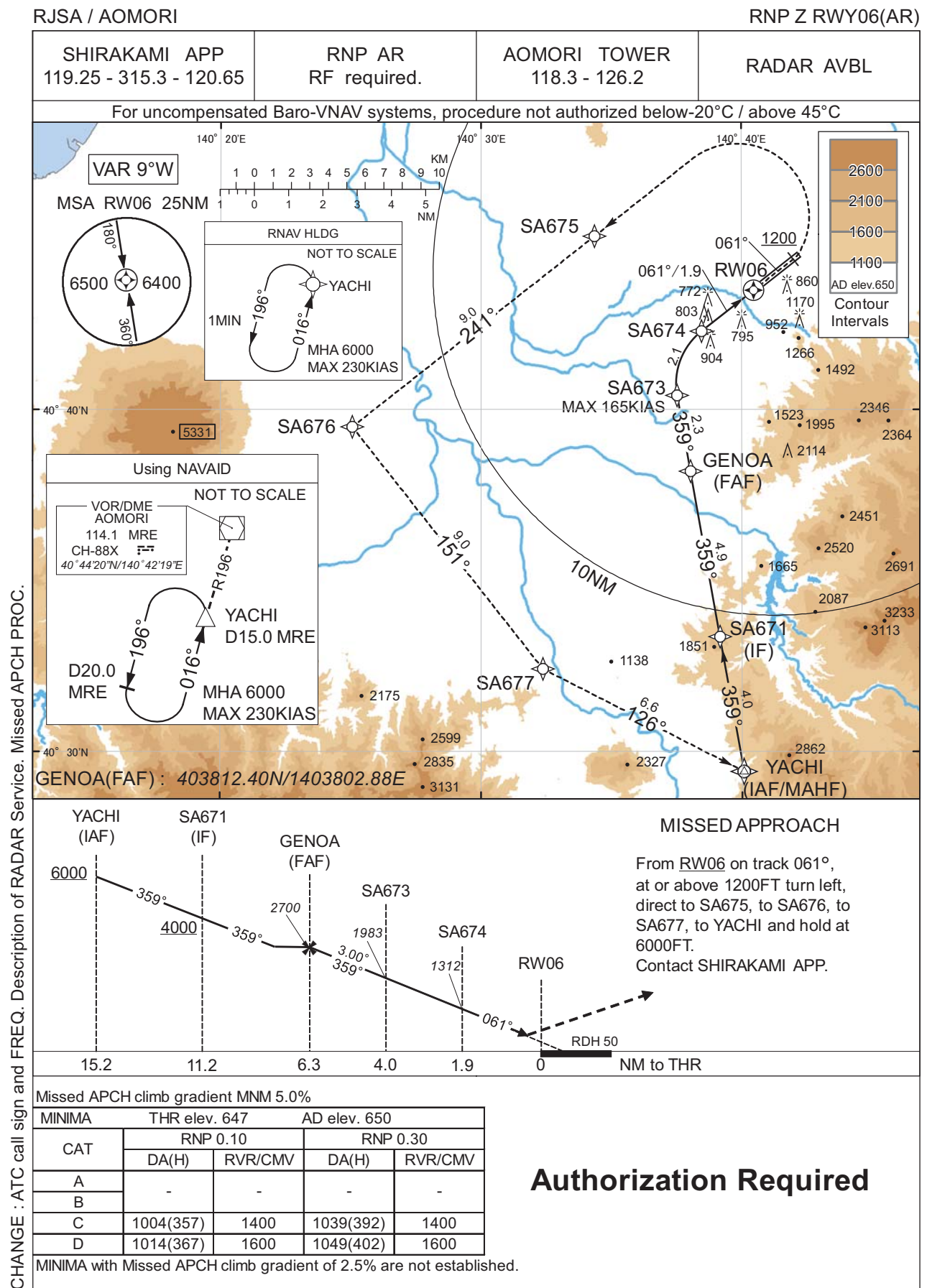
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	RNP Value
Hold	BYOBU	195 (185.2)	-9.3	1.0 (-14000)	R	6000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BYOBU	410009.54N / 1404414.25E	SARF3	404959.39N / 1404519.70E
ASAMU	405624.95N / 1404606.79E		
SA456	405059.78N / 1404849.32E		
SERYU	404745.29N / 1404737.78E		
RW24	404429.79N / 1404209.27E		
SA455	404008.45N / 1403451.64E		

CHANGE : PROC course. VAR. RNAV HLDG established(BYOBU).

INSTRUMENT APPROACH CHART



CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

## INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Z RWY06(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	YACHI	-	-	-9.3	-	-	+6000	-	-	-
002	TF	SA671	-	359 (350.0)	-9.3	4.0	-	+4000	-	-	1.0
003	TF	GENOA	-	359 (350.0)	-9.3	4.9	-	2700	-	-	1.0
004	TF	SA673	-	359 (350.0)	-9.3	2.3	-	1983	-165	-3.00	0.10 0.30
005	RF Center: SARF2 r=1.95NM	SA674	-	-	-9.3	2.1	R	1312	-	-3.00	0.10 0.30
006	TF	RW06	Y	061 (051.8)	-9.3	1.9	-	697	-	-3.00/50	0.10 0.30
007	FA	-	-	061 (051.8)	-9.3	-	-	+1200	-	-	1.0
008	DF	SA675	-	-	-9.3	-	L	-	-	-	1.0
009	TF	SA676	-	241 (231.7)	-9.3	9.0	-	-	-	-	1.0
010	TF	SA677	-	151 (141.8)	-9.3	9.0	-	-	-	-	1.0
011	TF	YACHI	-	126 (117.1)	-9.3	6.6	-	6000	-	-	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	YACHI	016 (006.5)	-9.3	1.0 (-14000)	L	6000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
YACHI	402925.44N / 1404004.97E	SARF2	404045.88N / 1404003.56E
SA671	403322.04N / 1403910.22E		
GENOA	403812.40N / 1403802.88E		
SA673	404025.48N / 1403731.96E		
SA674	404218.09N / 1403828.52E		
RW06	404329.77N / 1404028.61E		
SA675	404504.89N / 1403421.94E		
SA676	403930.44N / 1402503.91E		
SA677	403225.82N / 1403222.79E		

CHANGE : VAR. RNAV HLDG established(YACHI).



## RJSA / AOMORI

SHIRAKAMI APP  
119.25 - 315.3 - 120.65

RNP AR  
RF required.

AOMORI TOWER  
118.3 - 126.2

RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below -20°C / above 45°C

VAR 9°W

MSA RW06 25NM

6500 6400

180° 360°

140° 30'E 140° 40'E 140° 50'E 141° 0'E

41° 0'N 40° 50'N 40° 40'N

2600 2100 1600 1100

AD elev.650

Contour Intervals

BYOBU (IAF/MAHF)

ABURA (IF)

SA679 (MATF)

SA678 (FAF)

SA674

MIOKA (FAF)

10NM

215°/1.3

061°/1.9

002°

061°

13.2

6.5

9.3

5.7

5.6

772

803

795

904

831

860

932

1170

952

1266

1186

1492

1442

1802

1537

1815

1849

1478

1405

1953

2402

2733

2786

1598

1119

1966

5079

2222

Using NAVAID

D21.0 MRE

014° 194°

MHA 6000 MAX 230KIAS

BYOBU D15.9 MRE

VOR/DME AOMORI 114.1 MRE CH-88X 40°44'20"N/140°42'19"E

RNAV HLDG

1MIN

015° 195°

MHA 6000 MAX 230KIAS

BYOBU NOT TO SCALE

MIOKA(FAF) : 404600.69N/1403506.18E

BYOBU (IAF) ABURA (IF)

MISSED APPROACH

Climb to 6000FT, to SA679, to BYOBU and hold.  
Contact SHIRAKAMI APP.

6000 5100 3500 3085 1312

215° 215° 061°

RDH 50

24.5 18.1 8.8 7.5 1.9 0 NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 647	AD elev. 650
CAT	RNP 0.10	RNP 0.30
	DA(H) RVR/CMV	DA(H) RVR/CMV
A	-	-
B	-	-
C	1004(357) 1400	1039(392) 1400
D	1014(367) 1600	1049(402) 1600

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

Authorization Required

## INSTRUMENT APPROACH CHART

RJSA / AOMORI

RNP Y RWY06(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	BYOBU	-	-	-9.3	-	-	+6000	-	-	-
002	TF	ABURA	-	215 (206.1)	-9.3	6.5	-	+5100	-	-	1.0
003	TF	MIOKA	-	215 (206.0)	-9.3	9.3	-	3500	-	-	1.0
004	TF	SA678	-	215 (206.0)	-9.3	1.3	-	3085	-165	-3.00	0.10 0.30
005	RF Center: SARF4 r=2.07NM	SA674	-	-	-9.3	5.6	L	1312	-	-3.00	0.10 0.30
006	TF	RW06	Y	061 (051.8)	-9.3	1.9	-	697	-	-3.00/50	0.10 0.30
007	TF	SA679	-	061 (051.8)	-9.3	5.7	-	-	-	-	1.0
008	TF	BYOBU	-	002 (352.9)	-9.3	13.2	-	6000	-	-	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	BYOBU	195 (185.2)	-9.3	1.0 (-14000)	R	6000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

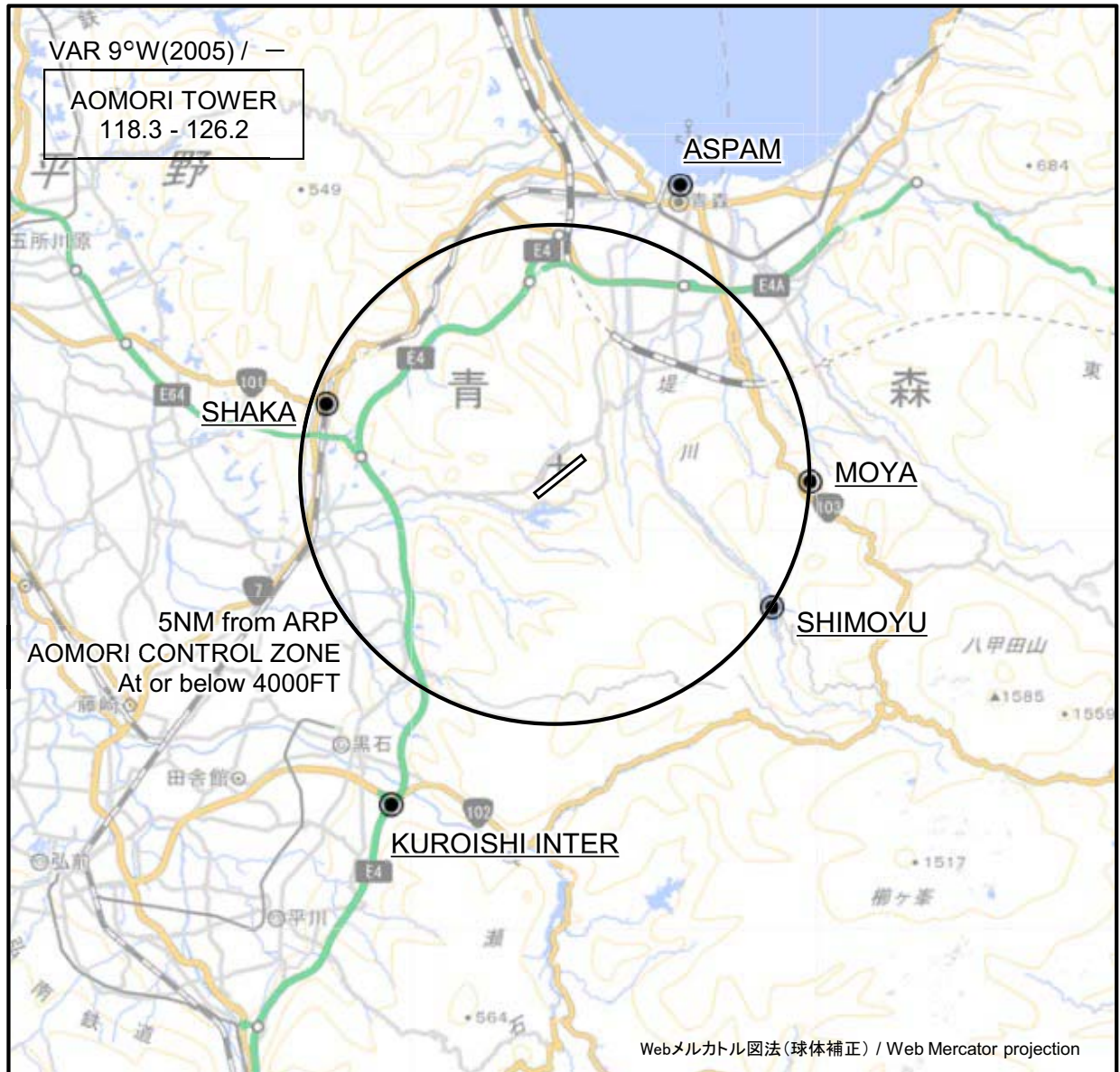
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
BYOBU	410009.54N / 1404414.25E	SARF4	404355.81N / 1403647.71E
ABURA	405419.99N / 1404028.03E		
MIOKA	404600.69N / 1403506.18E		
SA678	404450.39N / 1403420.99E		
SA674	404218.09N / 1403828.52E		
RW06	404329.77N / 1404028.61E		
SA679	404701.68N / 1404624.34E		

CHANGE : VAR. RNAV HLDG established(BYOBU).



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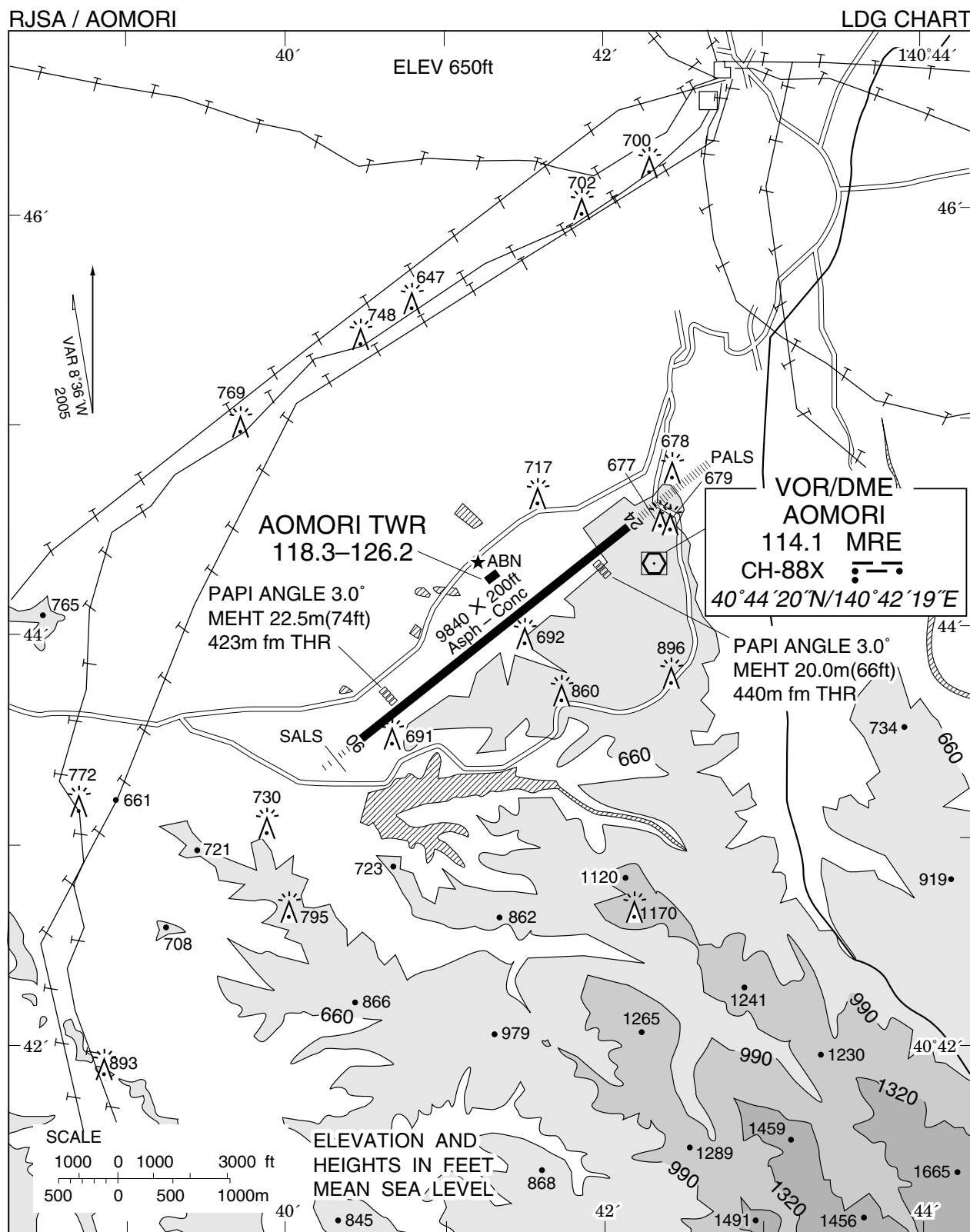
Visual REP



※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.

Call sign	BRG / DIST from ARP	Remarks
アスパム Aspam	022°T / 6.3NM	アスパム, 三角形のビル ASPAM, Triangular
釈迦 Shaka	287°T / 4.8NM	JR大釈迦駅 JR Station
雲谷 Moya	092°T / 5.0NM	雲谷スキー場 Moya Slope
下湯 Shimoyu	123°T / 5.0NM	下湯平成湖 Lake
黒石インター Kuroishi Inter	206°T / 7.4NM	東北自動車道黒石インター Intersection



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Minimum Vectoring Altitude CHART

CHANGE : Update.

