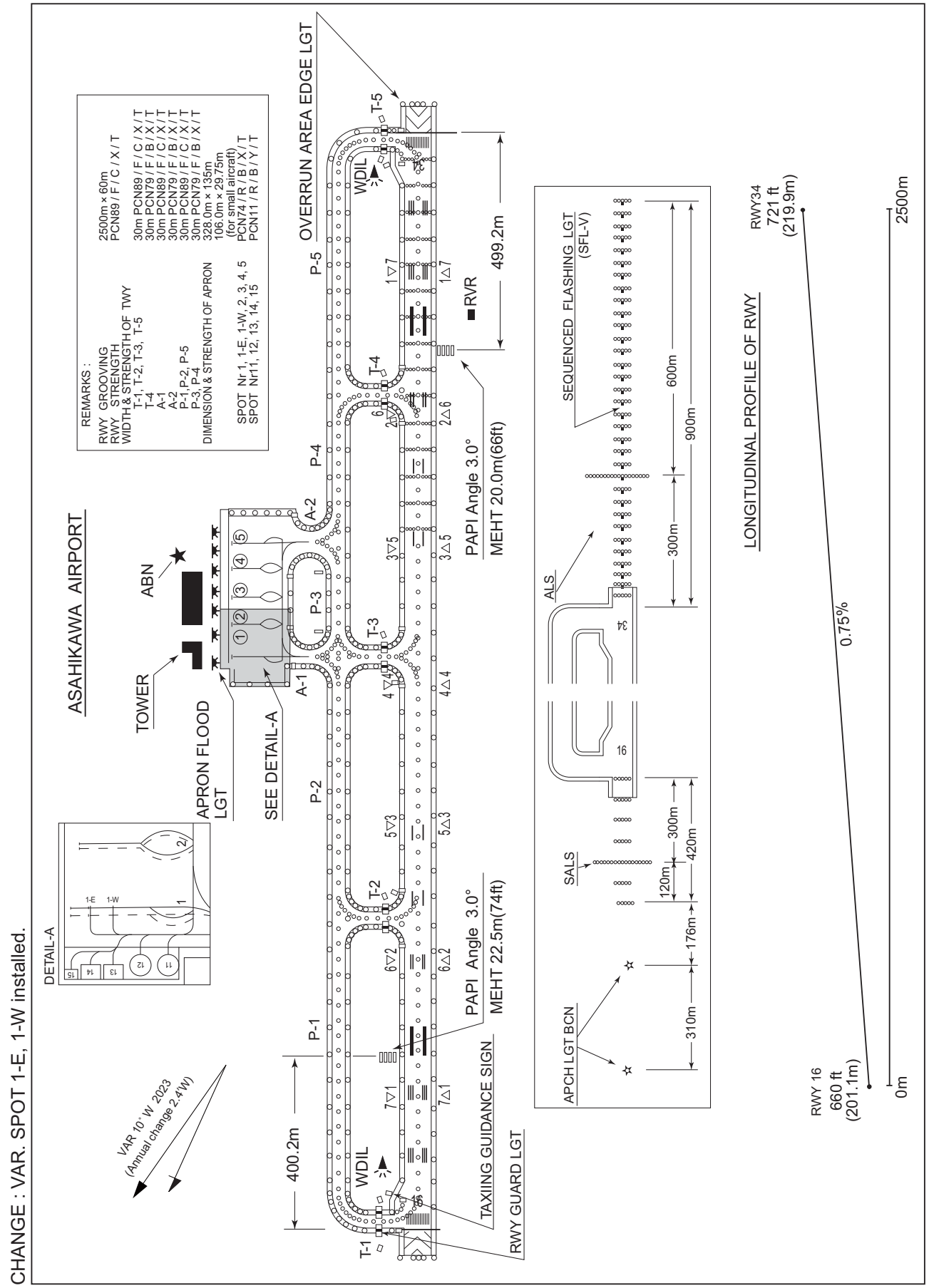
RJEC / ASAHIKAWA AD CHART



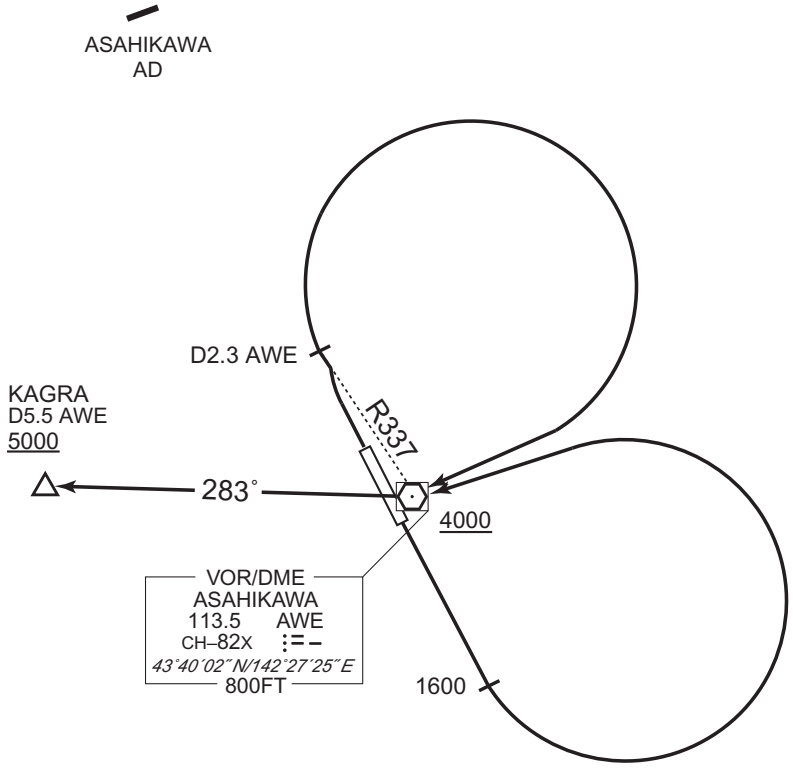
STANDARD DEPARTURE CHART-INSTRUMENT

RJEC / ASAHIKAWA SID

KAGRA FOUR DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left,...
RWY34 : Climb via AWE R337 to 2.3DME, turn right,...
...direct to AWE VOR/DME, via AWE R283 to KAGRA.
Cross AWE VOR/DME at or above 4000FT, cross KAGRA at or above 5000FT.

Note RWY16 : 5.3% climb gradient required up to 1600FT.
OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.
RWY34 : 5.0% climb gradient required up to 1000FT.
OBST ALT 696FT located at 1.4NM 021° FM end of RWY34.



CHANGE : Description of PROC name.

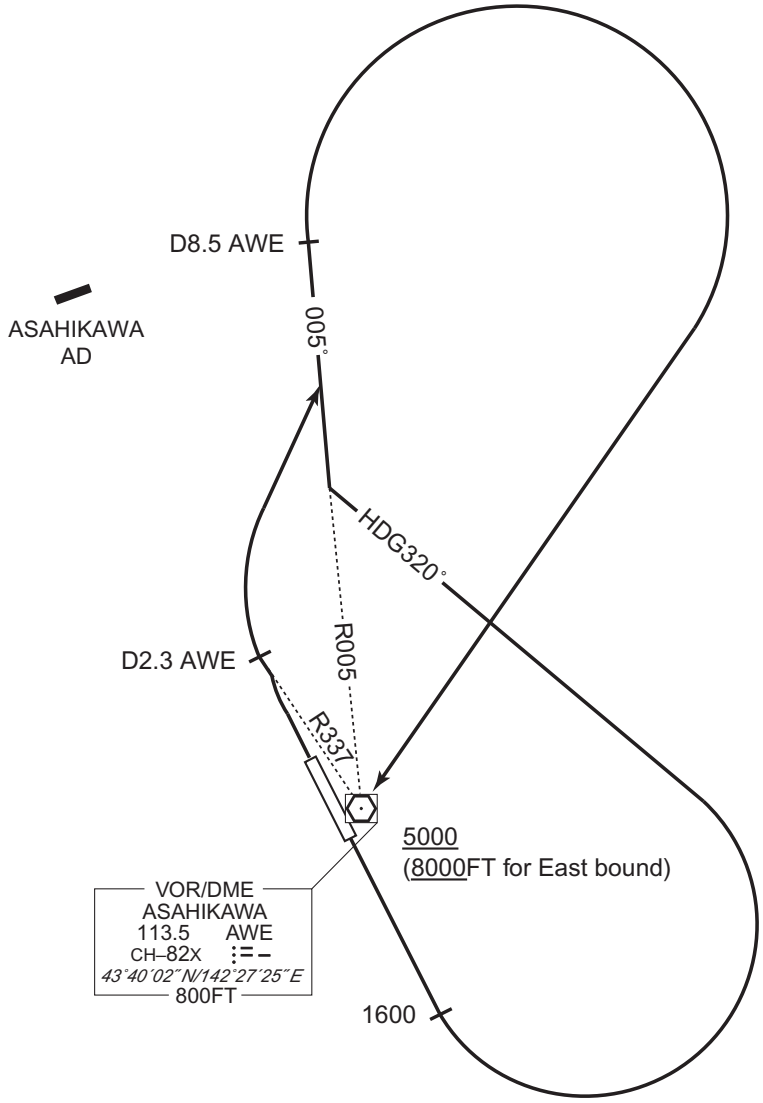
STANDARD DEPARTURE CHART-INSTRUMENT

RJEC / ASAHIKAWA SID

ASAHIKAWA REVERSAL FIVE DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left HDG320˚ to intercept and proceed ...
RWY34 : Climb via AWE R337 to 2.3DME, turn right,...
... via AWE R005 to 8.5DME, turn right, direct to AWE VOR/DME.
Cross AWE VOR/DME at or above 5000FT (8000FT for East bound).

Note RWY16 : 5.3% climb gradient required up to 1600FT.
OBST ALT 1247FT located at 2.0NM 146˚ FM end of RWY16.



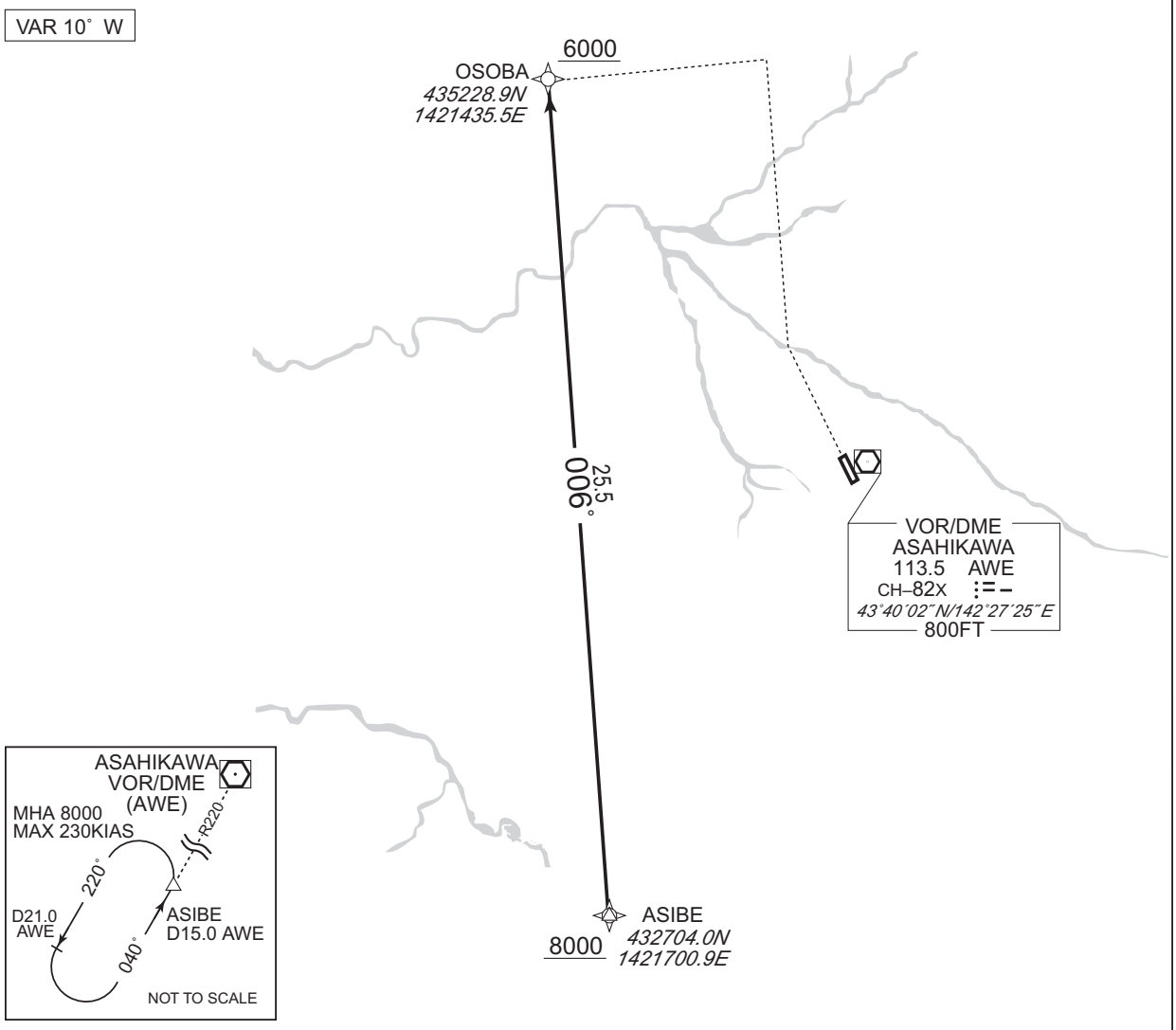
CHANGE : Description of PROC name.

STANDARD ARRIVAL CHART-INSTRUMENT

RJEC / ASAHIKAWA — RNAV STAR RWY16

OSOBA ARRIVAL — RNP1

Note GNSS required.



From ASIBE at or above 8000FT, to OSOBA at or above 6000FT.

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	ASIBE	–	–	-9.5	–	–	+8000	–	–	RNP1
002	TF	OSOBA	–	006 (356.1)	-9.5	25.5	–	+6000	–	–	RNP1

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

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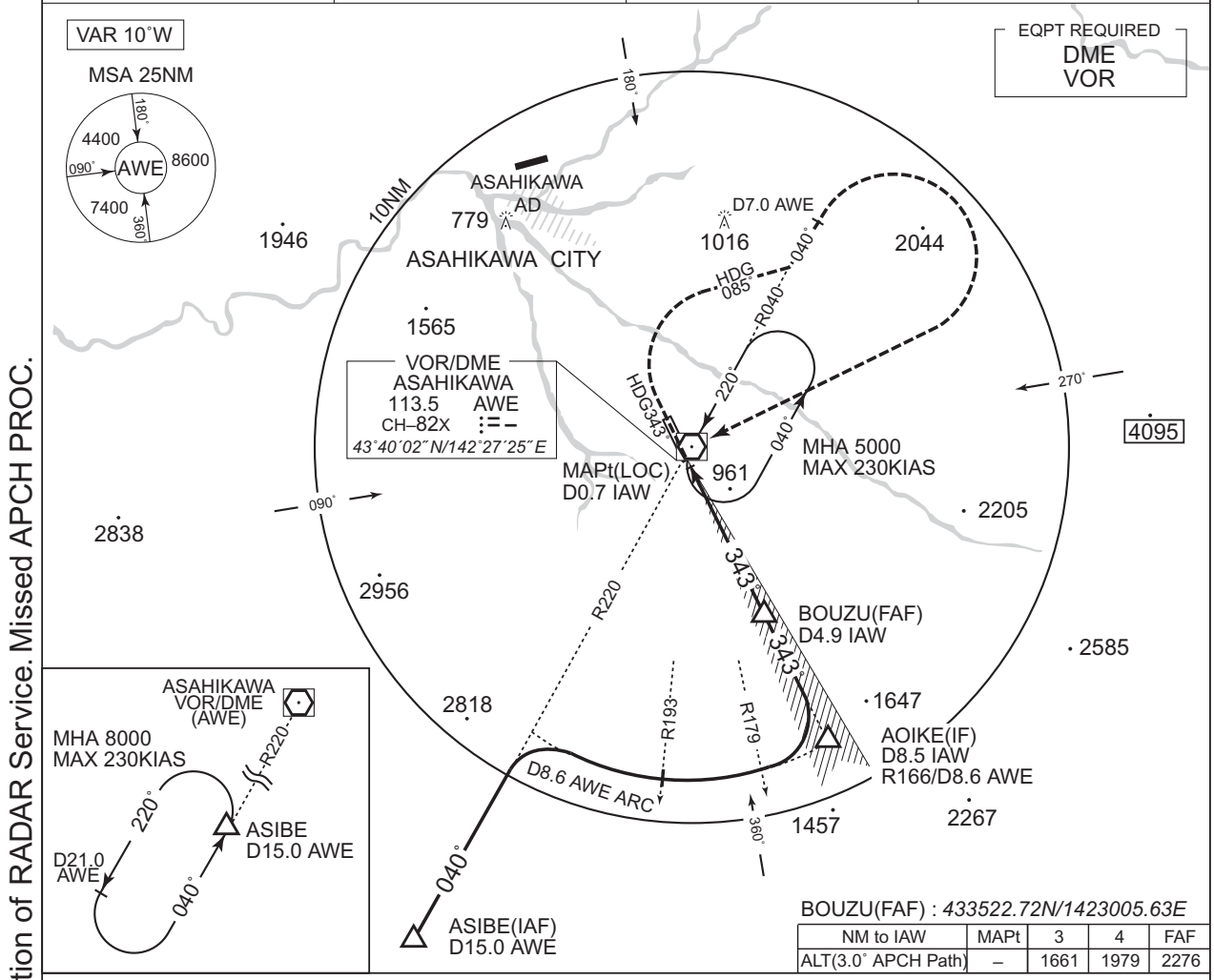
INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA — ILS Z or LOC Z RWY34

HIDAKA APP	ILS-LOC	DAISETSU TOWER	RADAR AVBL
128.325 - 246.1 - 134.55	110.5 IAW ILS–GP 329.6 ILS–DME CH–42X	118.55 – 126.2	



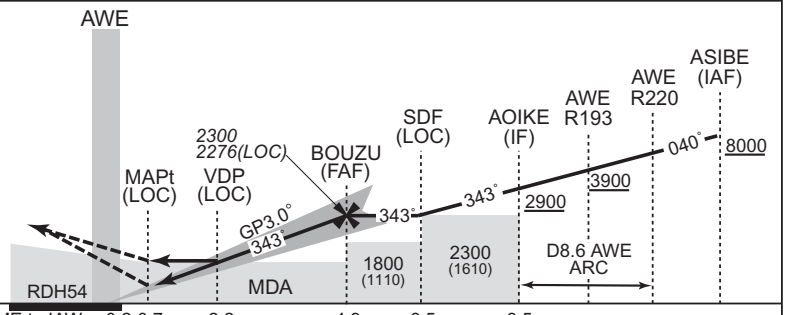
BOUZU(FAF) : *433522.72N/1423005.63E*

NM to IAW	MAPt	3	4	FAF
ALT(3.0˚ APCH Path)	–	1661	1979	2276

MISSED APPROACH

Climb on HDG343˚ to 1200FT, turn right HDG085˚ to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT. Contact HIDAKA APP.

No turn before IAW 0.7DME.



DME to IAW	0.2	0.7	2.2	4.9	6.5	8.5
NM to THR	0	0.5	2.0	4.7	6.3	8.3

Missed APCH climb gradient MNM 5.0%

MINIMA — THR elev. 721 — AD elev. 690

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	921(200)	550	1370(680)	1200	1370(680)	1600
B				1400		
C					1560(870)	2400
D				1800		3200

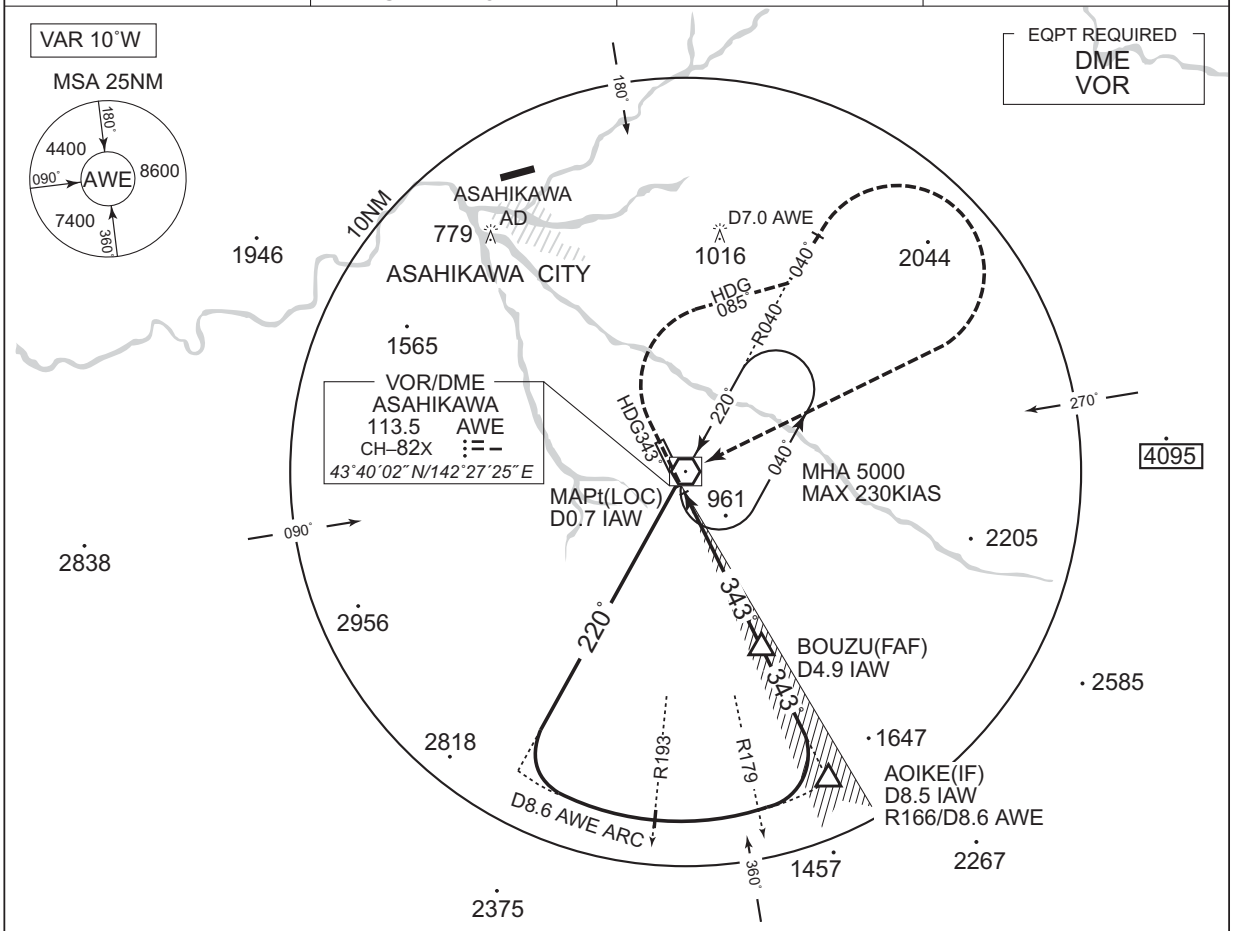
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA — ILS Y or LOC Y RWY34

HIDAKA APP	ILS-LOC	DAISETSU TOWER	RADAR AVBL
128.325 - 246.1 - 134.55	110.5 IAW ILS–GP 329.6 ILS–DME CH–42X	118.55 – 126.2	



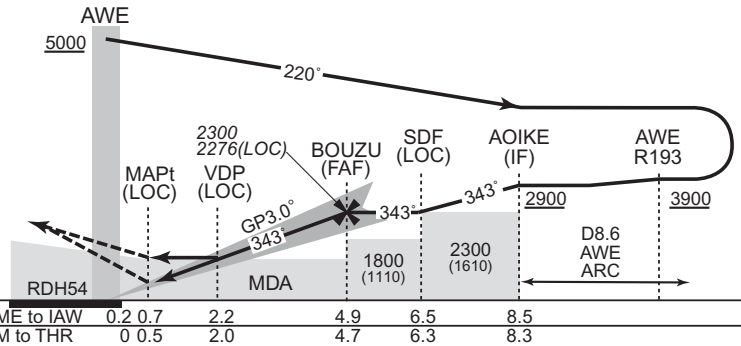
BOUZU(FAF) : *433522.72N/1423005.63E*

NM to IAW	MAPt	3	4	FAF
ALT(3.0˚ APCH Path)	–	1661	1979	2276

MISSED APPROACH

Climb on HDG343˚ to 1200FT, turn right HDG085˚ to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT. Contact HIDAKA APP.

No turn before IAW 0.7DME.



DME to IAW	0.2	0.7	2.2	4.9	6.5	8.5
NM to THR	0	0.5	2.0	4.7	6.3	8.3

Missed APCH climb gradient MNM 5.0%

MINIMA — THR elev. 721 — AD elev. 690

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	921(200)	550	1370(680)	1200	1370(680)	1600
B				1400		
C					1560(870)	2400
D				1800		3200

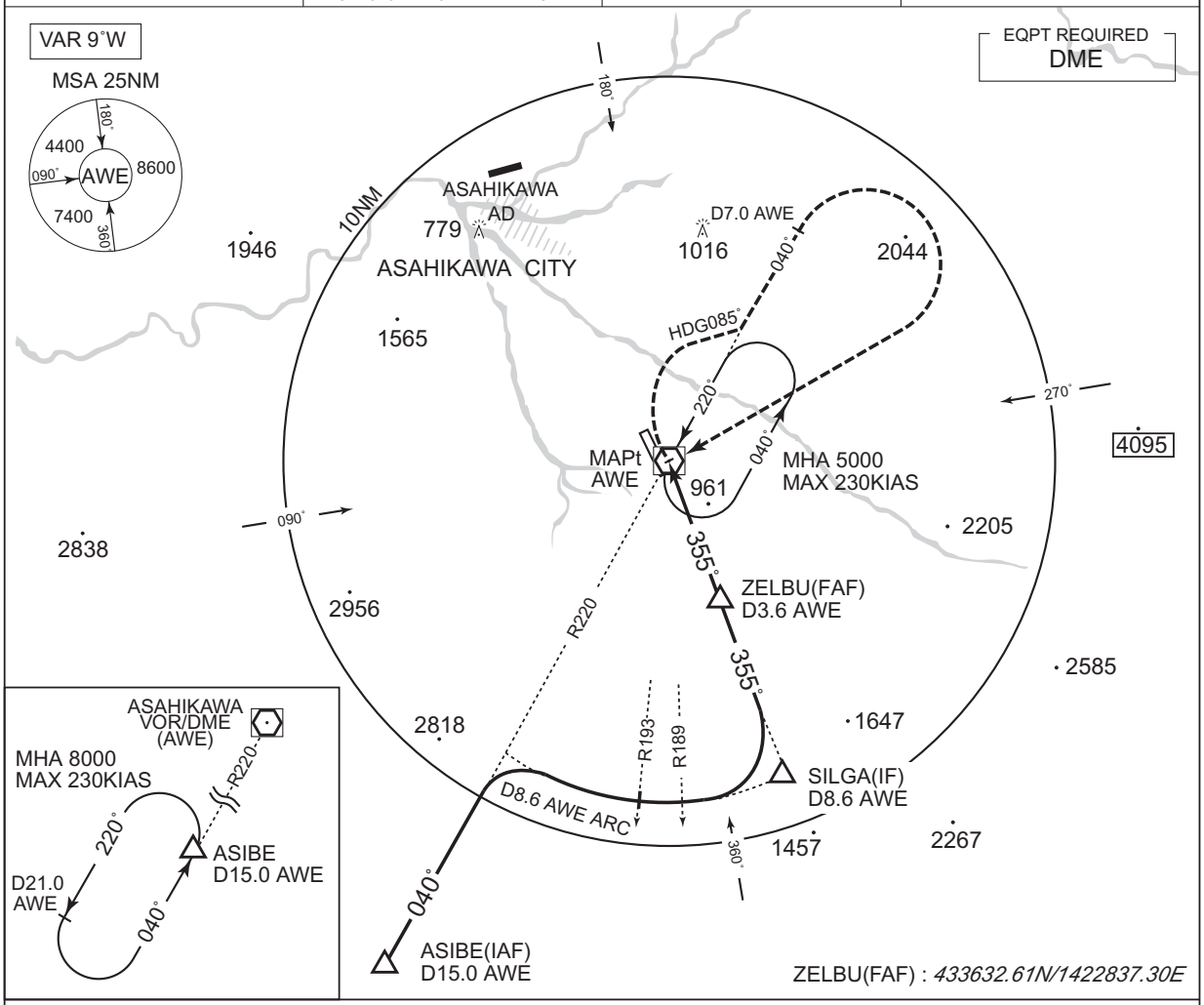
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA VOR A

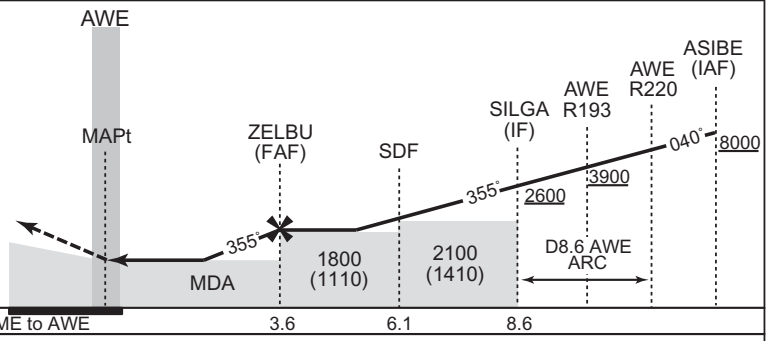
HIDAKA APP	ASAHIKAWA VOR/DME	DAISETSU TOWER	RADAR AVBL
128.325 - 246.1 - 134.55	113.5 AWE CH–82X *43˚40'02"N / 142˚27'25"E*	118.55 – 126.2	



MISSED APPROACH

Turn right HDG085˚ to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT.
Contact HIDAKA APP.

No turn before MAPt.
Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA		AD elev. 690
CAT	CIRCLING	
	MDA(H)	VIS
A	1460(770)	1600
B		
C	1560(870)	2400
D		3200

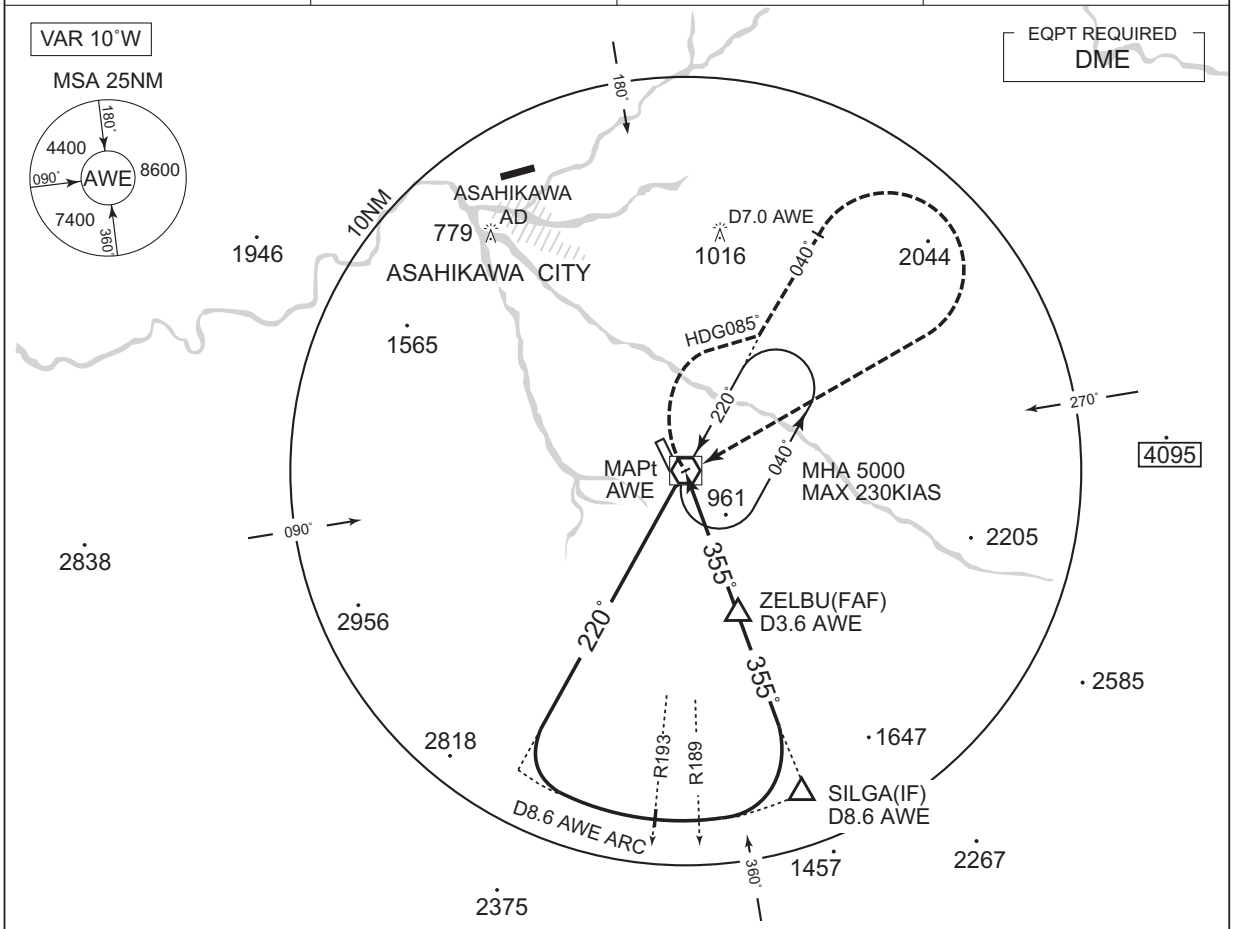
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA VOR B

HIDAKA APP 128.325 - 246.1 - 134.55	ASAHIKAWA VOR/DME 113.5 AWE CH–82X *43°40′02″N / 142°27′25″E*	DAISETSU TOWER 118.55 – 126.2	RADAR AVBL

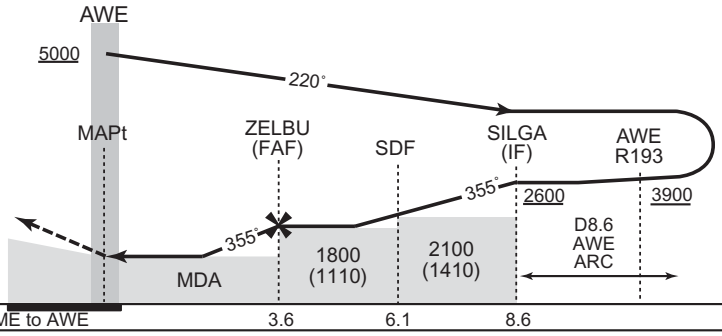


ZELBU(FAF) : *433632.61N/1422837.30E*

MISSED APPROACH

Turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT.
Contact HIDAKA APP.

No turn before MAPt.
Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA		AD elev. 690
CAT	CIRCLING	
	MDA(H)	VIS
A	1460(770)	1600
B		
C	1560(870)	2400
D		3200

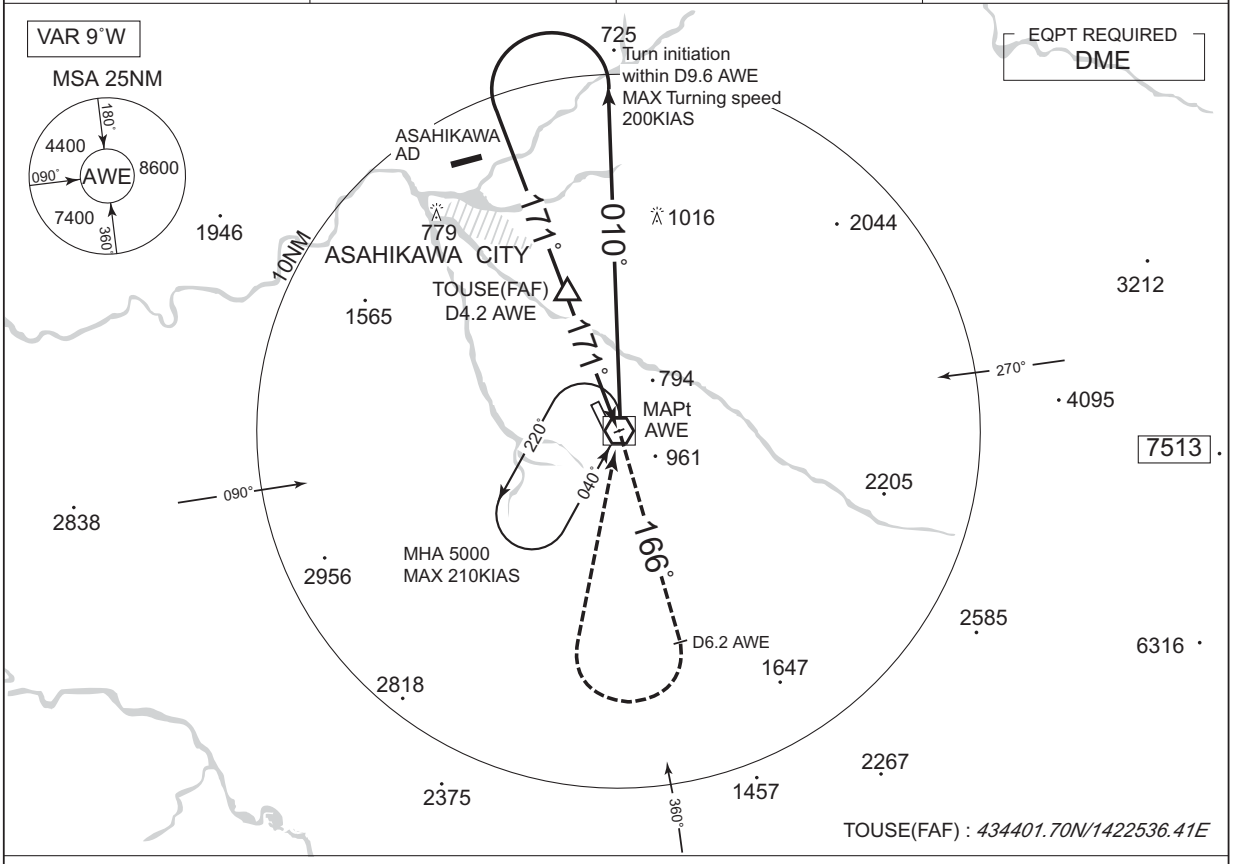
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA VOR C

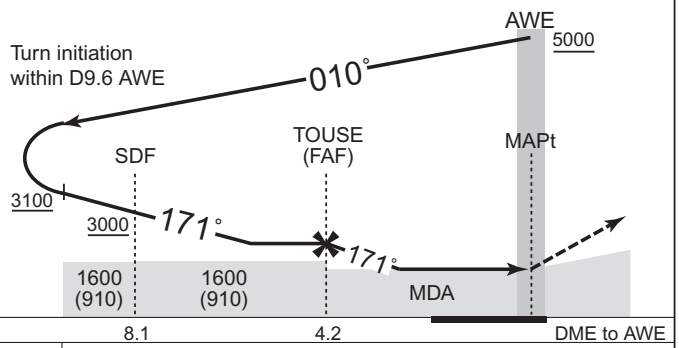
HIDAKA APP	ASAHIKAWA VOR/DME	DAISETSU TOWER	RADAR AVBL
128.325 - 246.1 - 134.55	113.5 AWE CH–82X *43˚40´02˝N / 142˚27´25˝E*	118.55 – 126.2	



MISSED APPROACH

Climb via AWE R166 to 6.2DME, turn right, direct to AWE VOR/DME and hold at 5000FT.
Contact HIDAKA APP.

No turn before MAPt.
Timing not authorized for defining MAPt.



MINIMA AD elev. 690

CAT	CIRCLING	
	MDA(H)	VIS
A	1330 (640)	1600
B		
C	1560 (870)	2400
D		3200

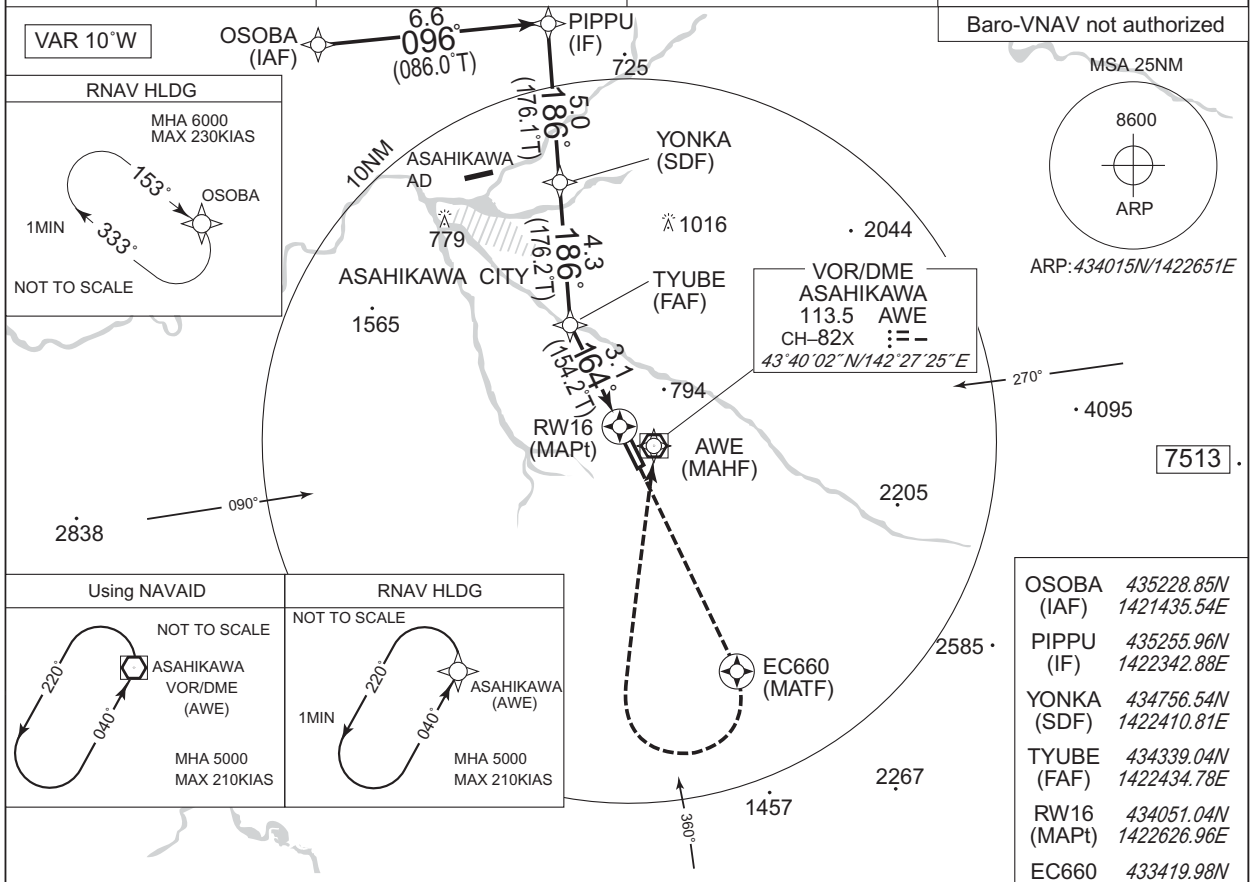
CHANGE : ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Z RWY16

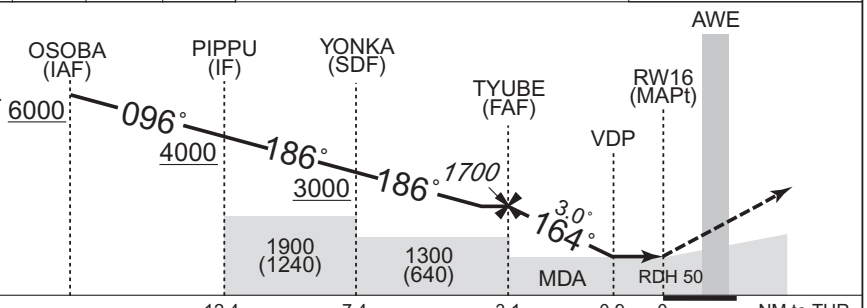
HIDAKA APP	RNP APCH	DAISETSU TOWER	RADAR AVBL
128.325 - 246.1 - 134.55		118.55 – 126.2	



OSOBA (IAF)	435228.85N 1421435.54E
PIPPU (IF)	435255.96N 1422342.88E
YONKA (SDF)	434756.54N 1422410.81E
TYUBE (FAF)	434339.04N 1422434.78E
RW16 (MAPt)	434051.04N 1422626.96E
EC660 (MATF)	433419.98N 1423047.35E
AWE (MAHF)	434002.15N 1422724.65E

NM to Next Fix	FAF	3	2	1	MAPt
ALT (3.0˚ APCH Path)	1700	1664	1346	1027	–

MISSED APPROACH
Direct to EC660, turn right direct to AWE and hold at 5000FT.
Contact HIDAKA APP.



Missed APCH climb gradient MNM 3.1%

MINIMA THR elev. 660 AD elev. 690

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	Not applicable		1000 (340)	1200	1280 (590)	1600
B				1300	1330 (640)	
C				1400	1560 (870)	2400
D				1600		3200

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

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

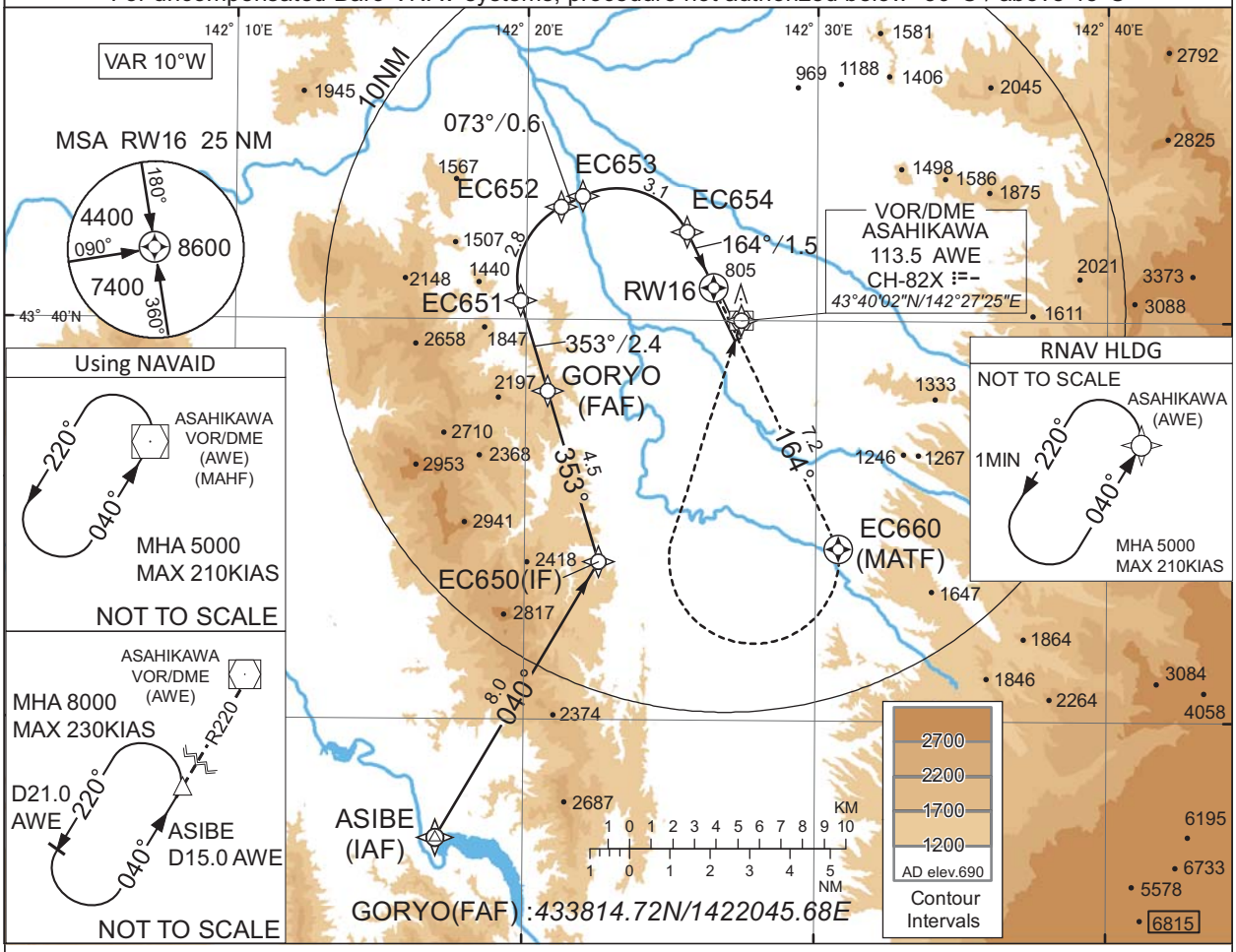
INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

RNP Y RWY16(AR)

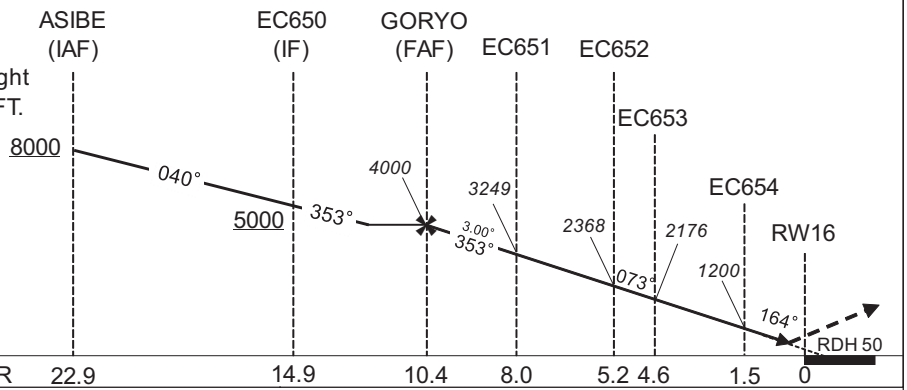
HIDAKA APP 128.325 - 246.1 - 134.55	RNP AR RF required.	DAISETSU TOWER 118.55 - 126.2	RADAR AVBL

For uncompensated Baro-VNAV systems, procedure not authorized below -30°C / above 45°C



MISSED APPROACH

To EC660 on track 164°,turn right direct to AWE and hold at 5000FT.
Contact HIDAKA APP.



Missed APCH climb gradient MNM 3.0%

MINIMA	THR elev. 660	AD elev. 690
CAT	RNP 0.30	
	DA(H)	CMV
A	-	-
B		
C	960(300)	1400
D	-	-

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

Authorization Required

CHANGE : RNAV HLDG established(ASAHIKAWA(AWE)). ATC call sign and FREQ. Description of RADAR Service. Missed APCH PROC.

INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA RNP Y RWY16(AR)

CHANGE : RNAV HLDG established(ASAHIKAWA(AWE)).

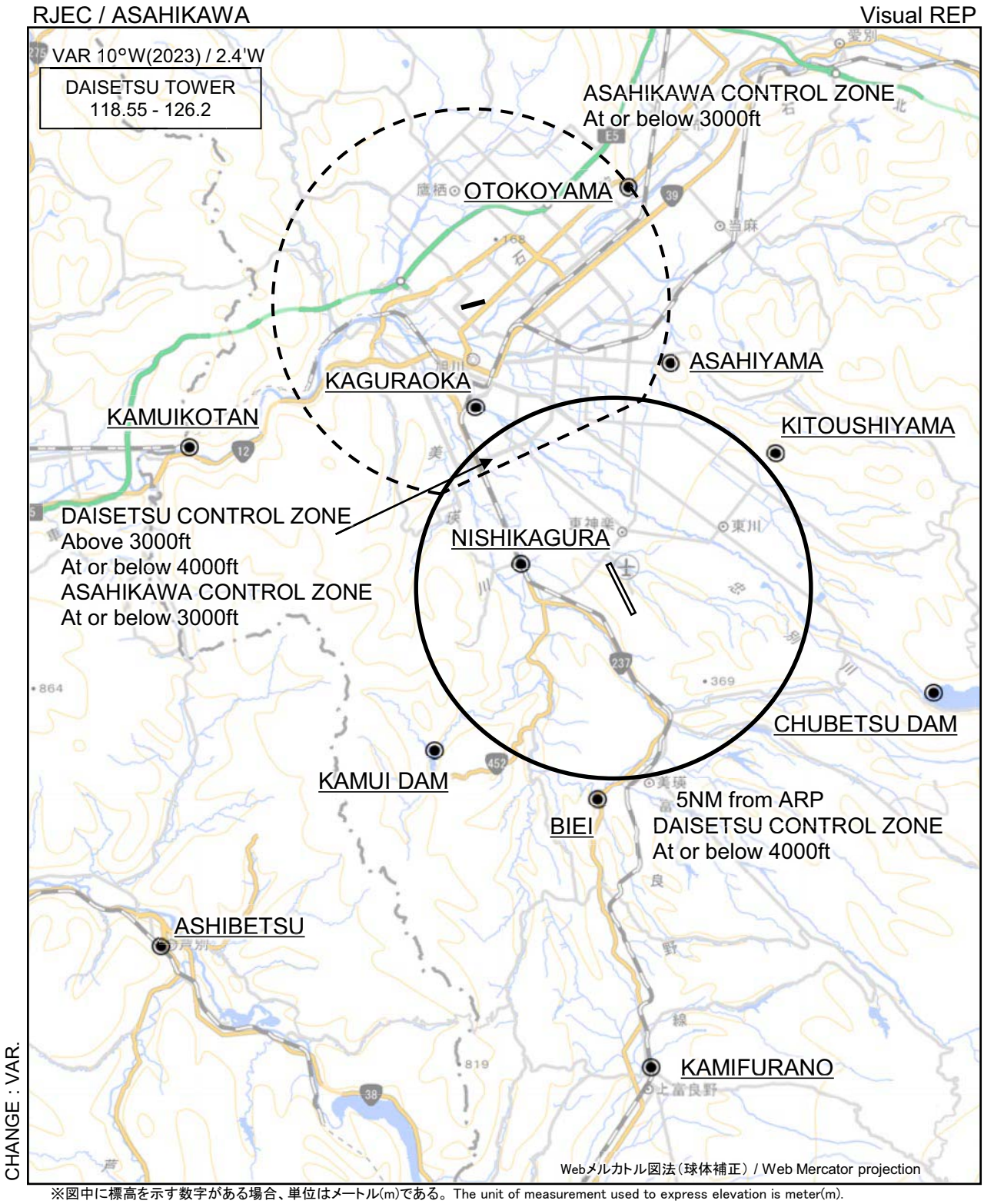
Coding Table

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	ASIBE	-	-	-9.5	-	-	+8000	-	-	-
002	TF	EC650	-	040 (030.1)	-9.5	8.0	-	+5000	-	-	1.0
003	TF	GORYO	-	353 (343.1)	-9.5	4.5	-	4000	-	-	1.0
004	TF	EC651	-	353 (343.0)	-9.5	2.4	-	3249	-	-3.00	0.30
005	RF Center: ECRF1 r=1.98NM	EC652	-	-	-9.5	2.8	R	2368	-	-3.00	0.30
006	TF	EC653	-	073 (063.0)	-9.5	0.6	-	2176	-	-3.00	0.30
007	RF Center: ECRF2 r=1.93NM	EC654	-	-	-9.5	3.1	R	1200	-	-3.00	0.30
008	TF	RW16	Y	164 (154.2)	-9.5	1.5	-	710	-	-3.00/50	0.30
009	CF	EC660	Y	164 (154.2)	-9.5	7.2	-	-	-	-	1.0
010	DF	AWE	-	-	-9.5	-	R	5000	-	-	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	AWE	040 (030.6)	-9.9	1.0 (-14000)	L	5000	FL140	-210 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ASIBE	*432703.98N / 1421700.93E*	ECRF1	*434104.78N / 1422225.25E*
EC650	*433359.28N / 1422233.14E*	ECRF2	*434123.69N / 1422307.68E*
GORYO	*433814.72N / 1422045.68E*		
EC651	*434030.03N / 1421948.65E*		
EC652	*434250.78N / 1422111.17E*		
EC653	*434307.07N / 1422155.45E*		
EC654	*434214.29N / 1422531.40E*		
RW16	*434051.04N / 1422626.96E*		
EC660	*433419.98N / 1423047.35E*		
AWE	*434002.15N / 1422724.65E*		



※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).

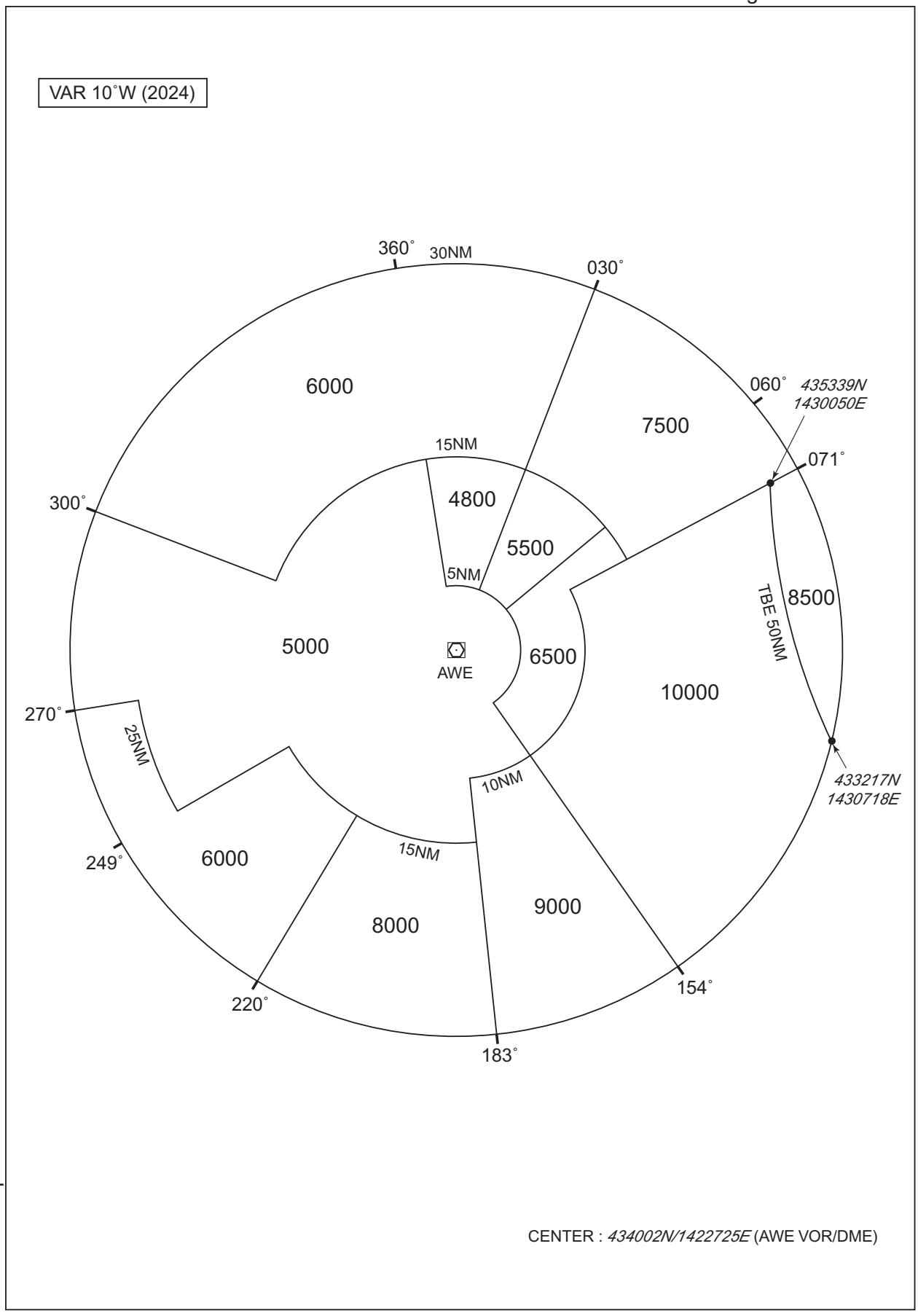
RJEC / ASAHIKAWA Visual REP

Call sign	BRG / DIST from ARP	Remarks
男山 Otokoyama	002°T / 10.4NM	男山自然公園 Park
旭山 Asahiyama	014°T / 6.0NM	旭山動物園 Zoo
神楽岡 Kaguraoka	324°T / 5.9NM	神楽岡公園 Park
神居古潭 Kamuikotan	289°T / 11.3NM	橋 Bridge
岐登牛山 Kitoushiyama	049°T / 5.4NM	スキー場 Ski ground
西神楽 Nishikagura	286°T / 2.4NM	JR駅 Station
忠別ダム Chubetsu dam	108°T / 8.5NM	ダム Dam
神居ダム Kamui dam	227°T / 6.2NM	ダム Dam
美瑛 Biei	184°T / 5.5NM	道路(大曲) Road
芦別 Ashibetsu	231°T / 14.7NM	JR駅 Station
上富良野 Kamifurano	176°T / 12.4NM	JR駅 Station

CHANGE : Visual REP established(Otokoyama).

RJEC / ASAHIKAWA

Minimum Vectoring Altitude CHART



CHANGE : Update.

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