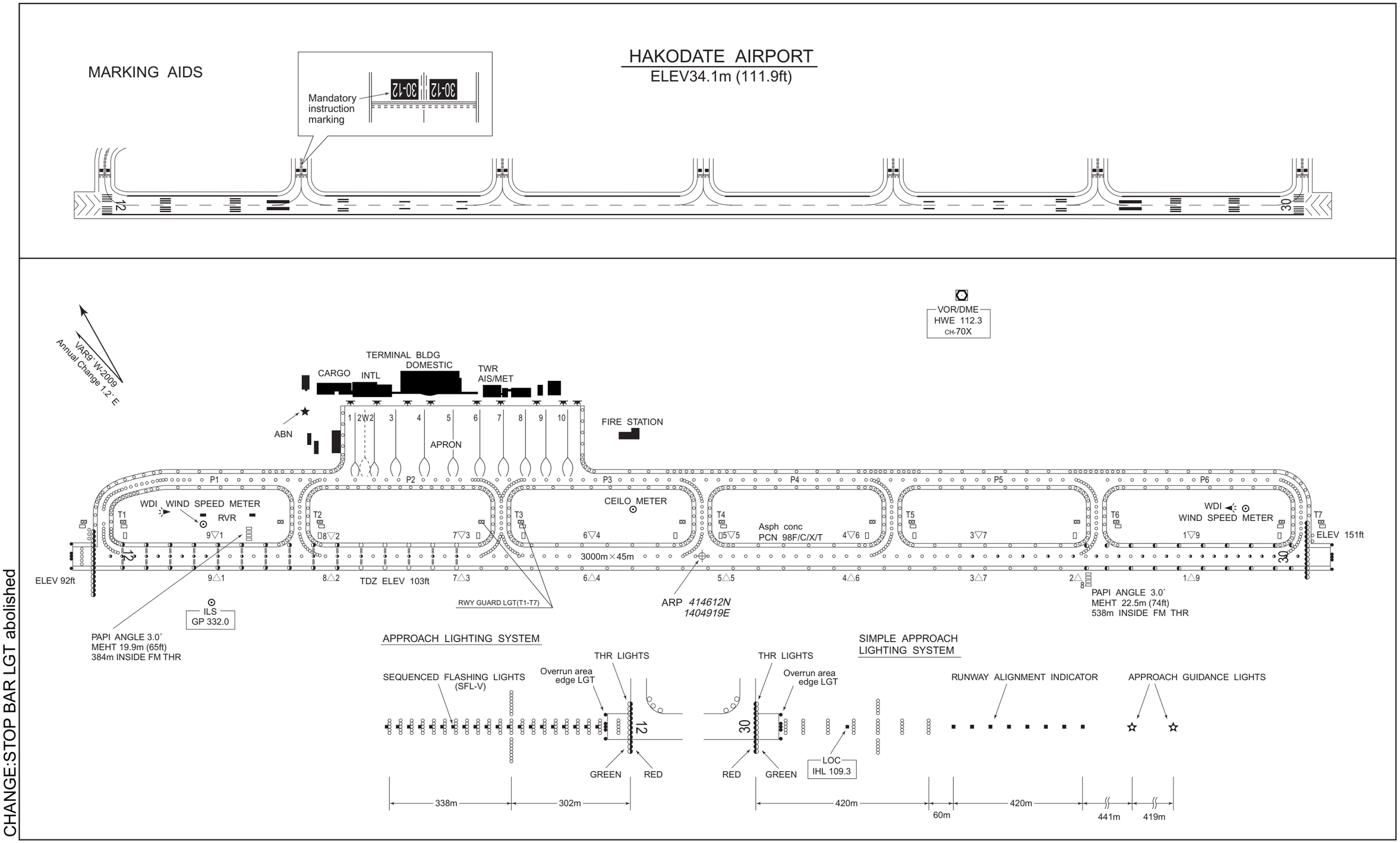
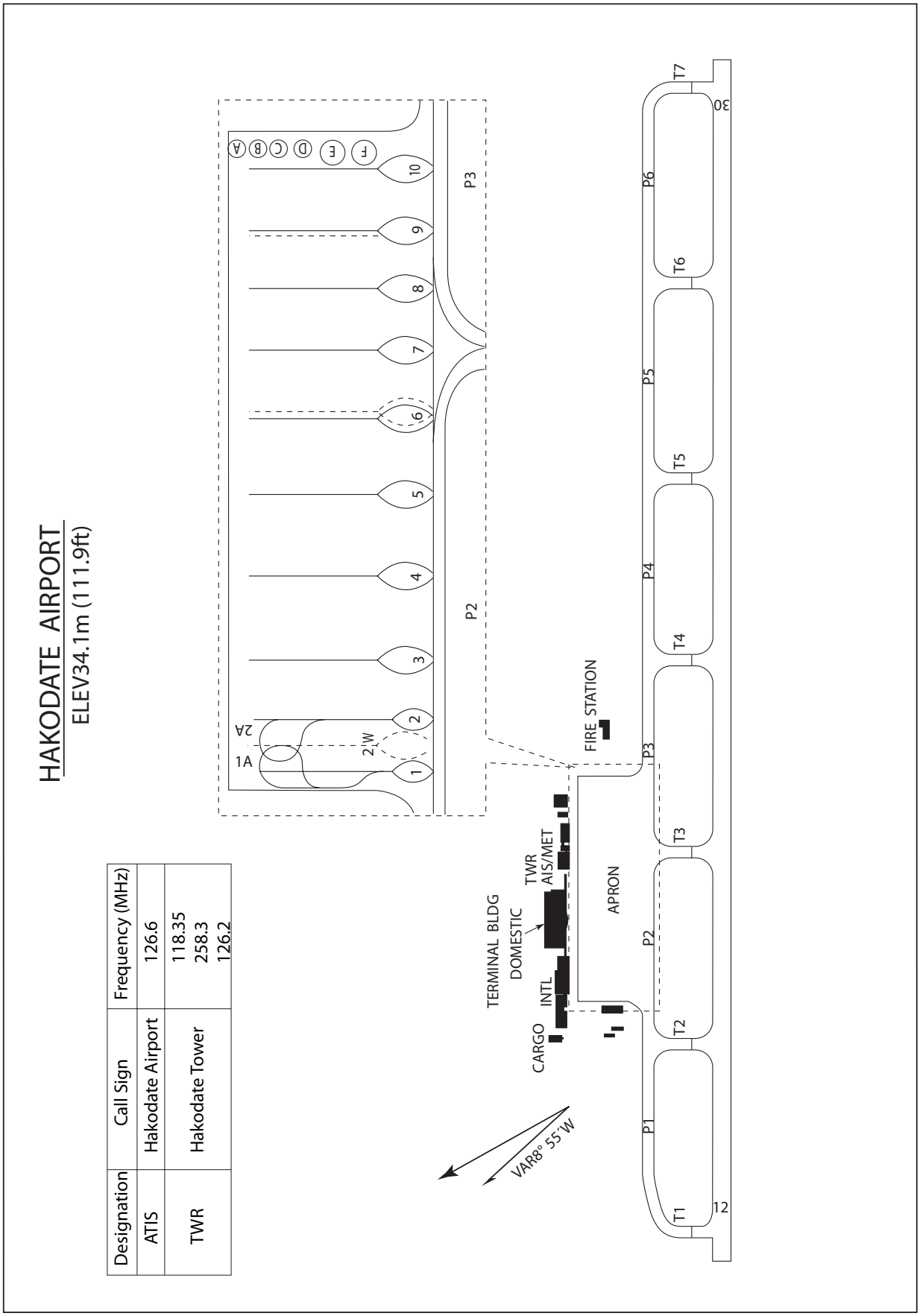
AERODROME CHART



CHANGE:STOP BAR LGT abolished

AIRCRAFT PARKING/DOCKING CHART

RJCH / HAKODATE AD CHART



Designation	Call Sign	Frequency (MHz)
ATIS	Hakodate Airport	126.6
TWR	Hakodate Tower	118.35 258.3 126.2

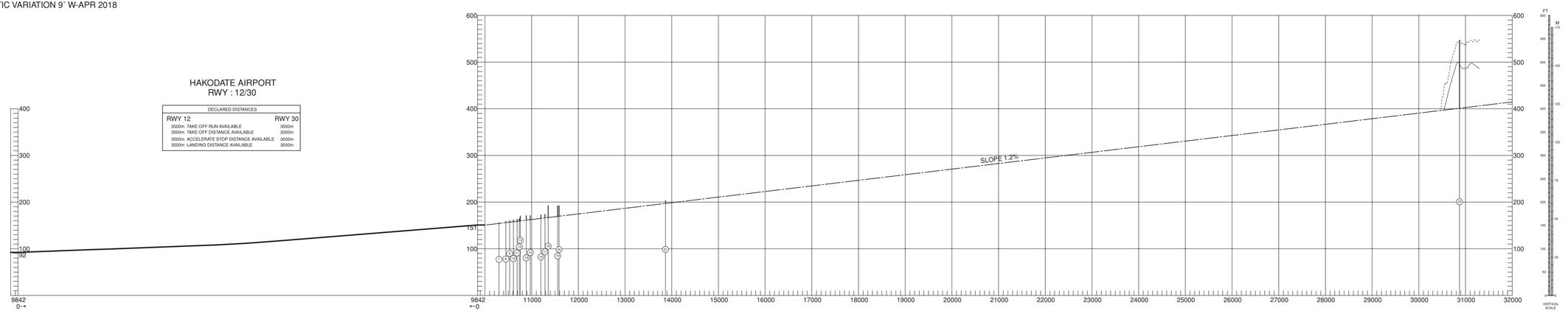
AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

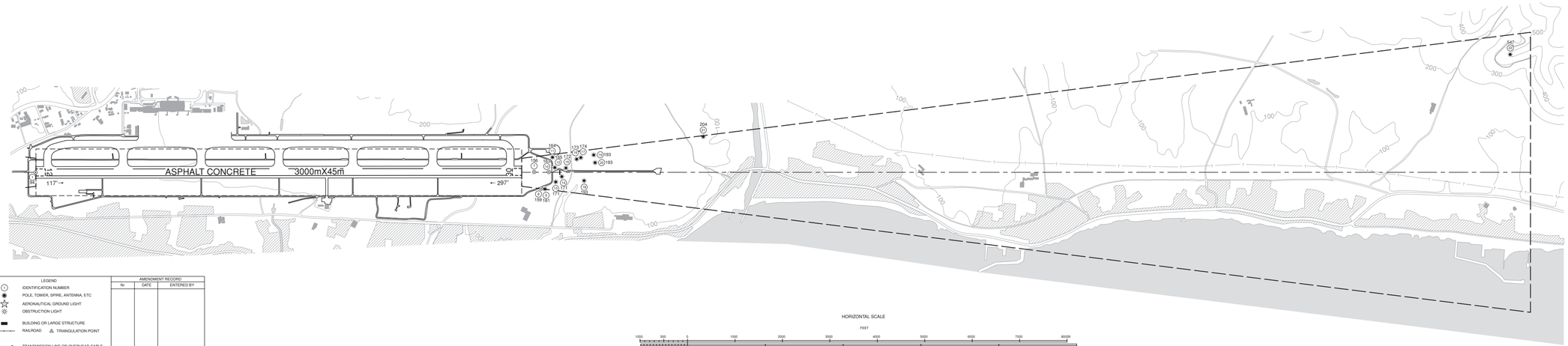
DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 9° W-APR 2018

HAKODATE AIRPORT
RWY : 12/30

DECLARED DISTANCES		
RWY 12		RWY 30
3000m	TAKE OFF RUN AVAILABLE	3000m
3000m	TAKE OFF DISTANCE AVAILABLE	3000m
3000m	ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m	LANDING DISTANCE AVAILABLE	3000m





LEGEND	
IDENTIFICATION NUMBER	
POLE, TOWER, SPIRE, ANTENNA, ETC	
AERONAUTICAL GROUND LIGHT	
OBSTRUCTION LIGHT	
BUILDING OR LARGE STRUCTURE	
RAILROAD	TRIANGULATION POINT
TRANSMISSION LINE OR OVERHEAD CABLE	
LEVEE	RIVER
TREE	
LAKE	CONTOUR(S)

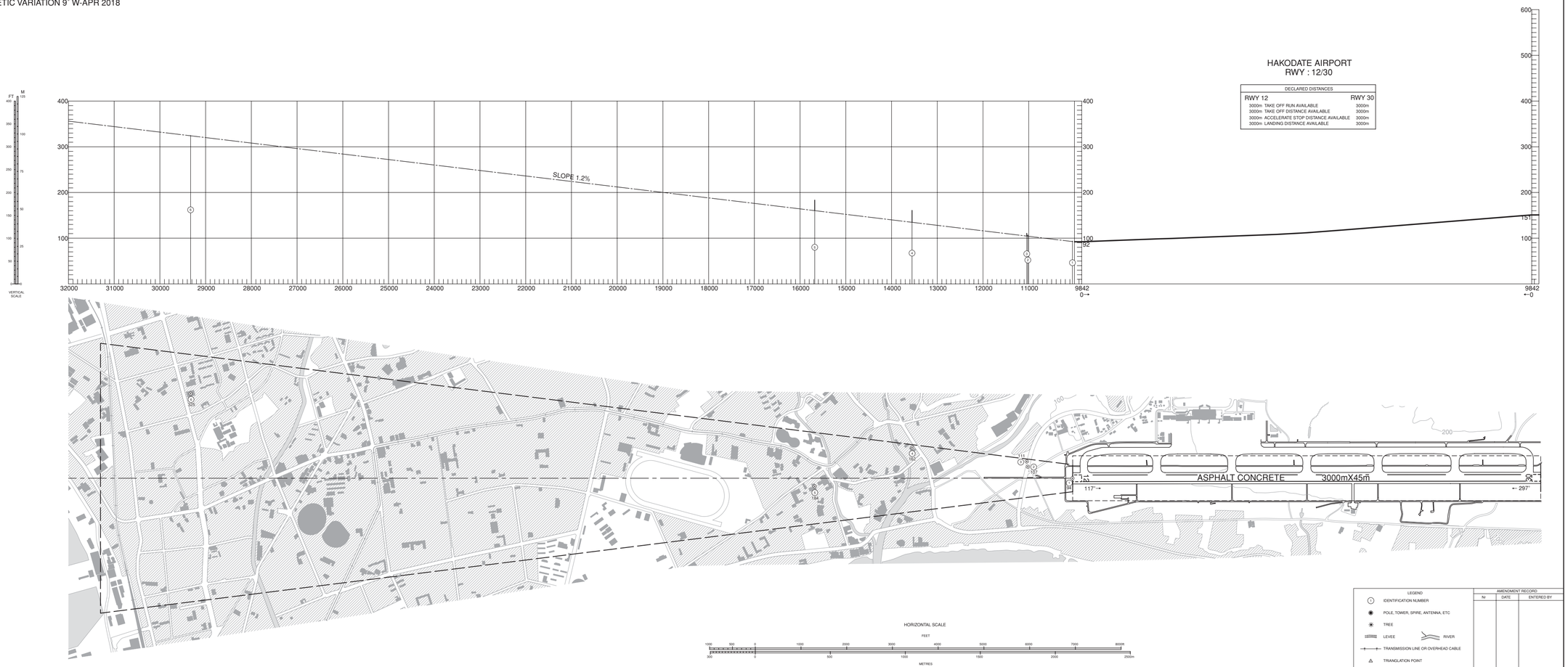
AMENDMENT RECORD		
Nr	DATE	ENTERED BY

CHANGE: Update

AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

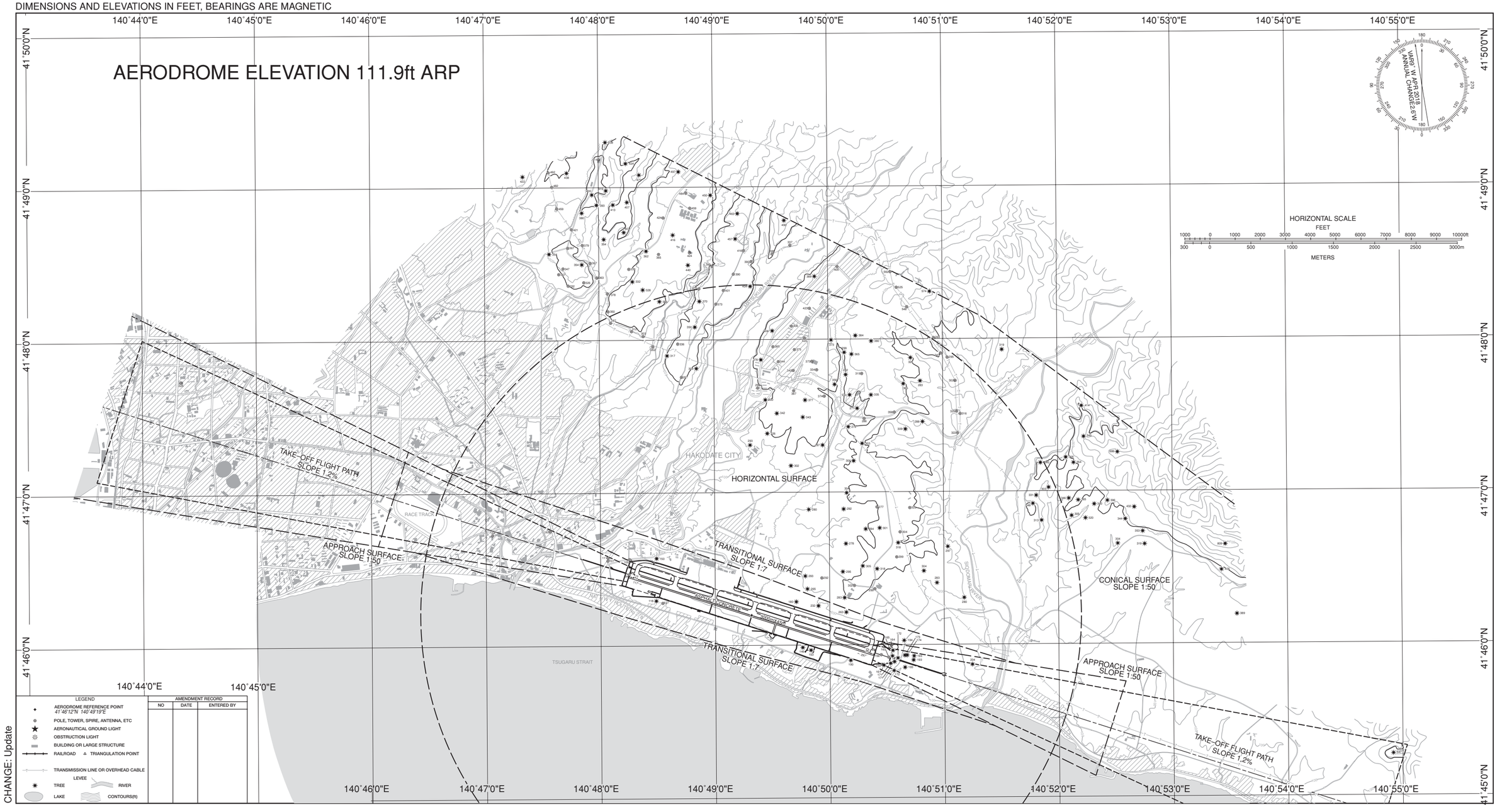
MAGNETIC VARIATION 9˚ W-APR 2018



CHANGE: Update

AERODROME OBSTACLE CHART - ICAO
TYPE B

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC



STANDARD DEPARTURE CHART - INSTRUMENT

RJCH / HAKODATE SID and TRANSITION

HAKODATE SOUTH SEVEN DEPARTURE

RWY 12: Climb RWY HDG until 600FT, turn right HDG239˚...
RWY 30: Climb RWY HDG until 500FT, turn left HDG149˚...
...to intercept and proceed via HWE R194 to MRE VOR/DME.
Cross HWE R194/30.0DME at or above 6000FT.
Note RWY12 : 4.0% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.43NM 105˚ FM end of RWY12.
RWY30 : 5.4% climb gradient required up to 1600FT.
OBST ALT 1296FT located at 4.63NM 267˚ FM end of RWY30.

HAKODATE REVERSAL FIVE DEPARTURE

RWY 12: Climb RWY HDG until 600FT, turn right HDG239˚...
RWY 30: Climb RWY HDG until 500FT, turn left HDG149˚...
...to intercept and proceed via HWE R194 to 3000FT, turn right direct to HWE VOR/DME.
Cross HWE VOR/DME at or above 5000FT.
Note RWY12 : 4.0% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.43NM 105˚ FM end of RWY12.
RWY30 : 5.4% climb gradient required up to 1600FT.
OBST ALT 1296FT located at 4.63NM 267˚ FM end of RWY30.

TAPPI SEVEN DEPARTURE

RWY 12: Climb RWY HDG until 600FT, turn right HDG272˚...
RWY 30: Climb RWY HDG until 500FT, turn left HDG182˚...
...to intercept and proceed via HWE R227 to TAPPI. Cross TAPPI at or above FL170.
Note RWY12 : 4.0% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.43NM 105˚ FM end of RWY12.
RWY30 : 5.4% climb gradient required up to 1600FT.
OBST ALT 1296FT located at 4.63NM 267˚ FM end of RWY30.

YUWA TRANSITION

From over TAPPI, proceed via UWE R008 to UWE VOR/DME.
Cross UWE R008/21.0DME at assigned altitude.

ESASI FIVE DEPARTURE

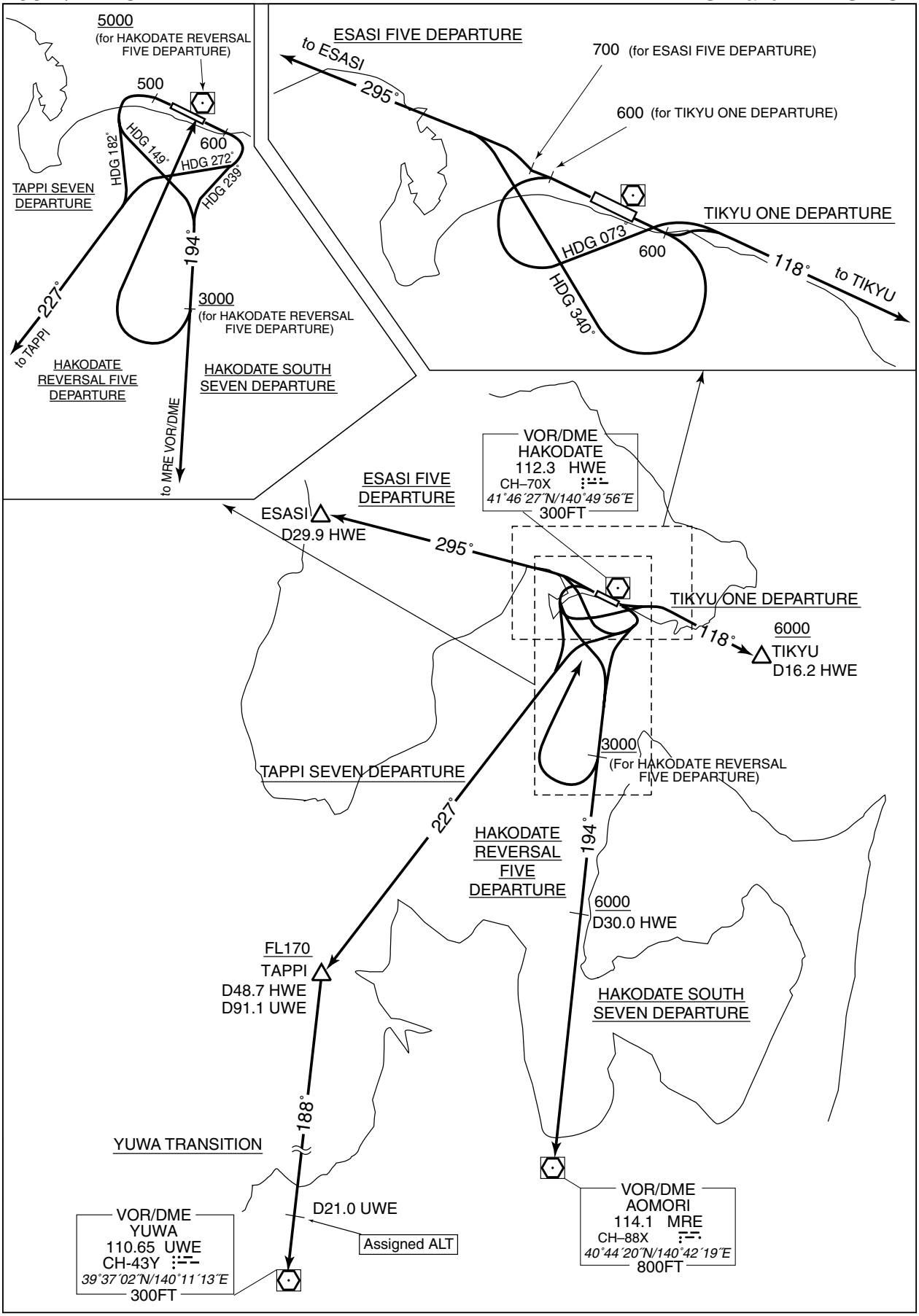
RWY 12: Climb RWY HDG until 600FT, turn right HDG340˚...
RWY 30: Climb RWY HDG until 700FT, turn right,...
...to intercept and proceed via HWE R295 to ESASI.
Note RWY12 : 4.9% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.43NM 105˚ FM end of RWY12.

TIKYU ONE DEPARTURE

RWY 12: Climb RWY HDG until 600FT, turn left,...
RWY 30: Climb RWY HDG until 600FT, turn left HDG073˚...
...to intercept and proceed via HWE R118 to TIKYU.
Cross TIKYU at or above 6000FT.
Note RWY12 : 6.3% climb gradient required up to 1700FT.
OBST ALT 1302FT located at 4.03NM 101˚ FM end of RWY12.
RWY30 : 5.4% climb gradient required up to 1600FT.
OBST ALT 1296FT located at 4.63NM 267˚ FM end of RWY30.

STANDARD DEPARTURE CHART - INSTRUMENT

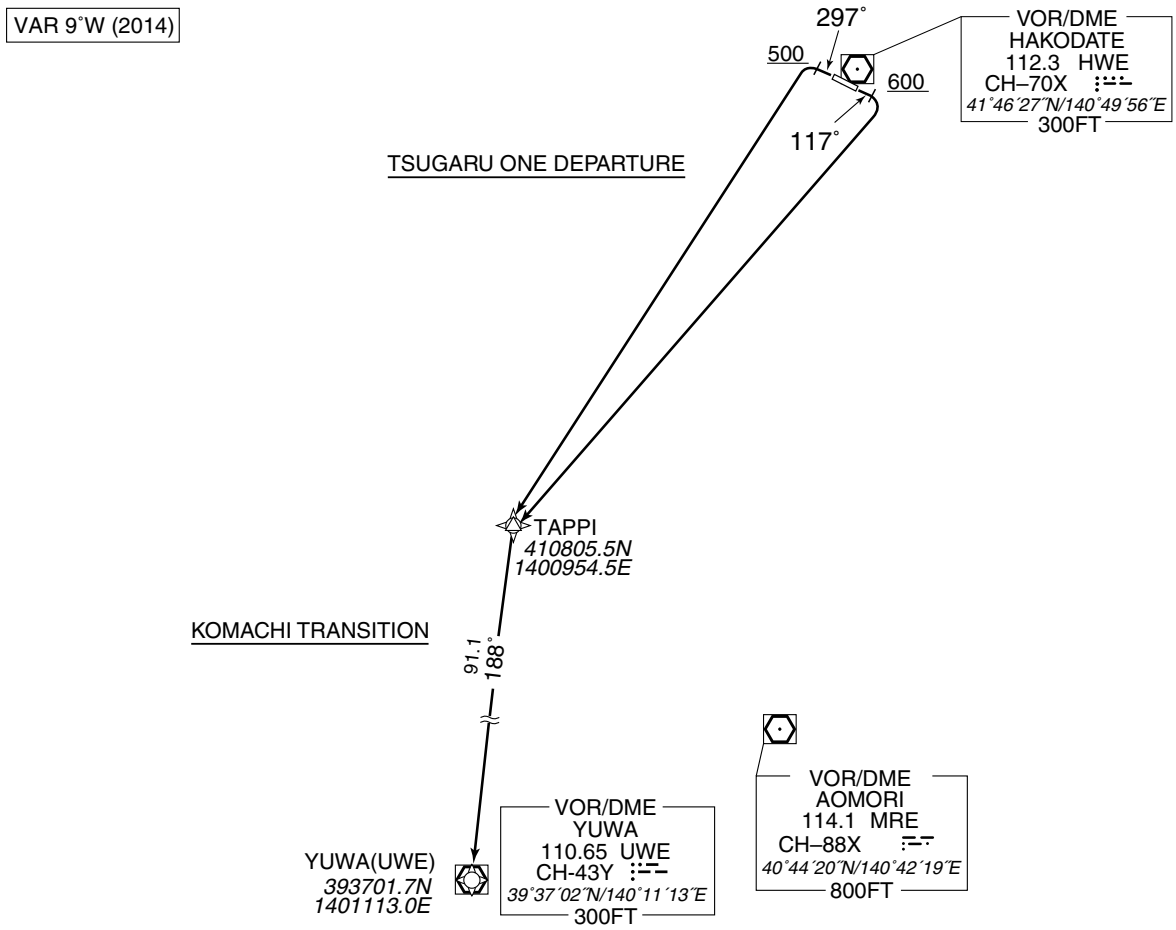
RJCH / HAKODATE SID and TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJCH / HAKODATE — RNAV SID and TRANSITION

TSUGARU ONE DEPARTURE KOMACHI TRANSITION		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	RWY12 : MRE : 30.0NM to TAPPI – TAPPI RWY30 : MRE : 47.6NM to TAPPI – TAPPI HWE : 47.6NM to TAPPI – 40.0NM to TAPPI KOMACHI Transition : MRE: TAPPI - 24.0NM to UWE HWE: TAPPI - 55.0NM to UWE UWE: 55.0NM to UWE - 24.0NM to UWE HPE: 16.0NM to UWE - UWE
	DME GAP	RWY12 : RWY12DER – 30.0NM to TAPPI RWY30 : RWY30DER – 47.6NM to TAPPI KOMACHI Transition: 24.0NM to UWE – 22.0NM to UWE 19.0NM to UWE – 16.0NM to UWE
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



TSUGARU ONE DEPARTURE

RWY12 : Climb on HDG117˚ at or above 600FT, turn right direct to TAPPI.
RWY30 : Climb on HDG297˚ at or above 500FT, turn left direct to TAPPI.

NOTE RWY12 : 4.0% climb gradient required up to 1300FT.
OBST ALT 919FT located at 3.43NM 105˚ FM end of RWY12.
RWY30 : 5.4% climb gradient required up to 1600FT.
OBST ALT 1296FT located at 4.63NM 267˚ FM end of RWY30.

KOMACHI TRANSITION

From TAPPI, to UWE.

STANDARD DEPARTURE CHART - INSTRUMENT

RJCH / HAKODATE RNAV SID and TRANSITION

TSUGARU ONE DEPARTURE

RWY12

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	—	—	117 (108.0)	-8.9	—	—	+600	—	—	RNAV1
002	DF	TAPPI	—	—	-8.9	—	R	—	—	—	RNAV1

RWY30

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	—	—	297 (288.1)	-8.9	—	—	+500	—	—	RNAV1
002	DF	TAPPI	—	—	-8.9	—	L	—	—	—	RNAV1

KOMACHI 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	TAPPI	—	—	-8.9	—	—	—	—	—	RNAV1
002	TF	UWE	—	188 (179.4)	-8.9	91.1	—	—	—	—	RNAV1

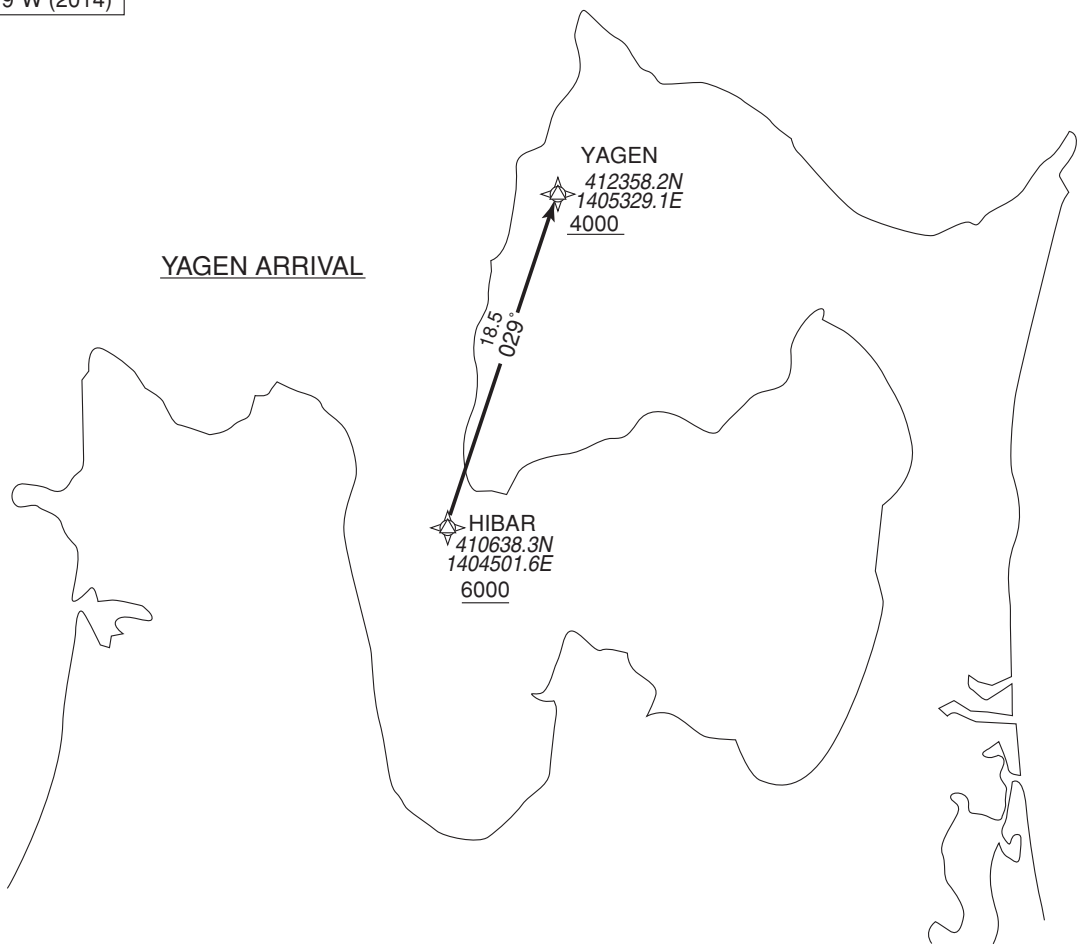
STANDARD ARRIVAL CHART - INSTRUMENT

RJCH / HAKODATE — RNAV STAR RWY30

YAGEN ARRIVAL	RNAV1

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

VAR 9˚W (2014)



YAGEN ARRIVAL

From HIBAR at or above 6000FT, to YAGEN at or above 4000FT.

Critical DME	HWE : 7.0NM to YAGEN – YAGEN MKE : 7.0NM to YAGEN – YAGEN
DME GAP	HIBAR - 7.0NM to YAGEN
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

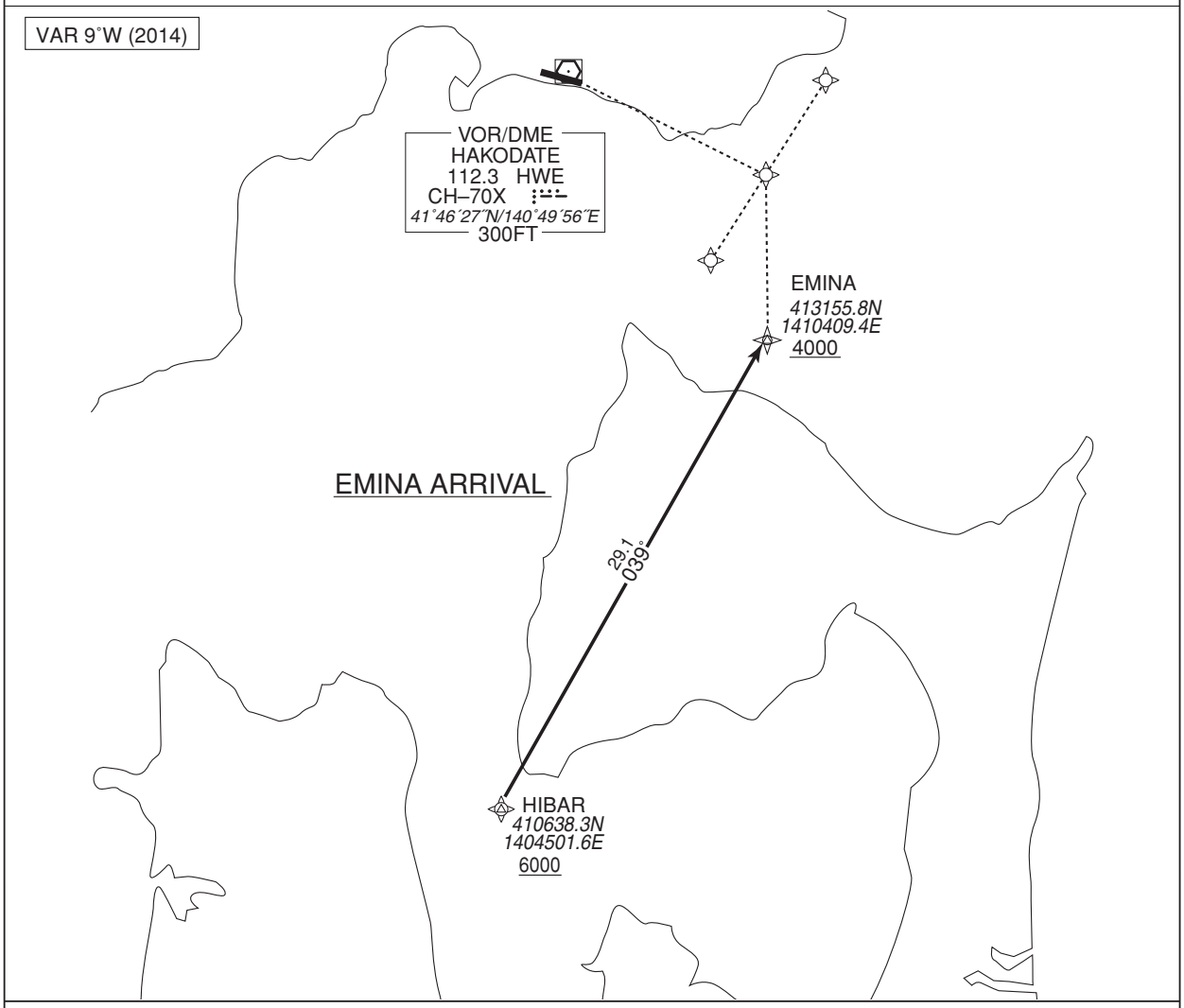
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	HIBAR	—	—	-8.9	—	—	+6000	—	—	RNAV1
002	TF	YAGEN	—	029 (020.1)	-8.9	18.5	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJCH / HAKODATE — RNAV STAR RWY30

EMINA ARRIVAL	RNAV1

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



EMINA ARRIVAL

From HIBAR at or above 6000FT, to EMINA at or above 4000FT.

Critical DME	HWE : 10.0NM to EMINA – EMINA MRE : 10.0NM to EMINA – 9.0NM to EMINA
DME GAP	HIBAR – 10.0NM to EMINA
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

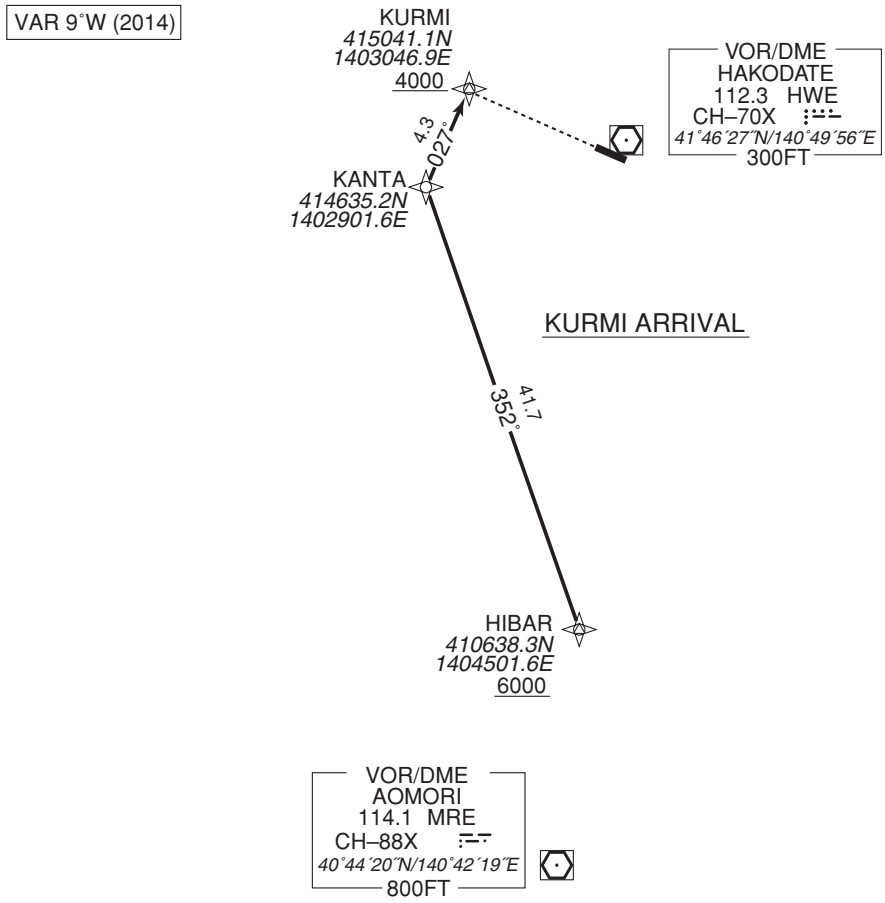
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	HIBAR	—	—	-8.9	—	—	+6000	—	—	RNAV1
002	TF	EMINA	—	039 (029.6)	-8.9	29.1	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJCH / HAKODATE — RNAV STAR RWY12

KURMI ARRIVAL	RNAV1

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



KURMI ARRIVAL

From HIBAR at or above 6000FT, to KANTA, to KURMI at or above 4000FT.

Critical DME	MRE : 22.0NM to KANTA – KANTA HWE : 22.0NM to KANTA – KANTA
DME GAP	HIBAR – 22.0NM to KANTA KANTA – KURMI
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	HIBAR	—	—	-8.9	—	—	+6000	—	—	RNAV1
002	TF	KANTA	—	352 (343.4)	-8.9	41.7	—	—	—	—	RNAV1
003	TF	KURMI	—	027 (017.7)	-8.9	4.3	—	+4000	—	—	RNAV1

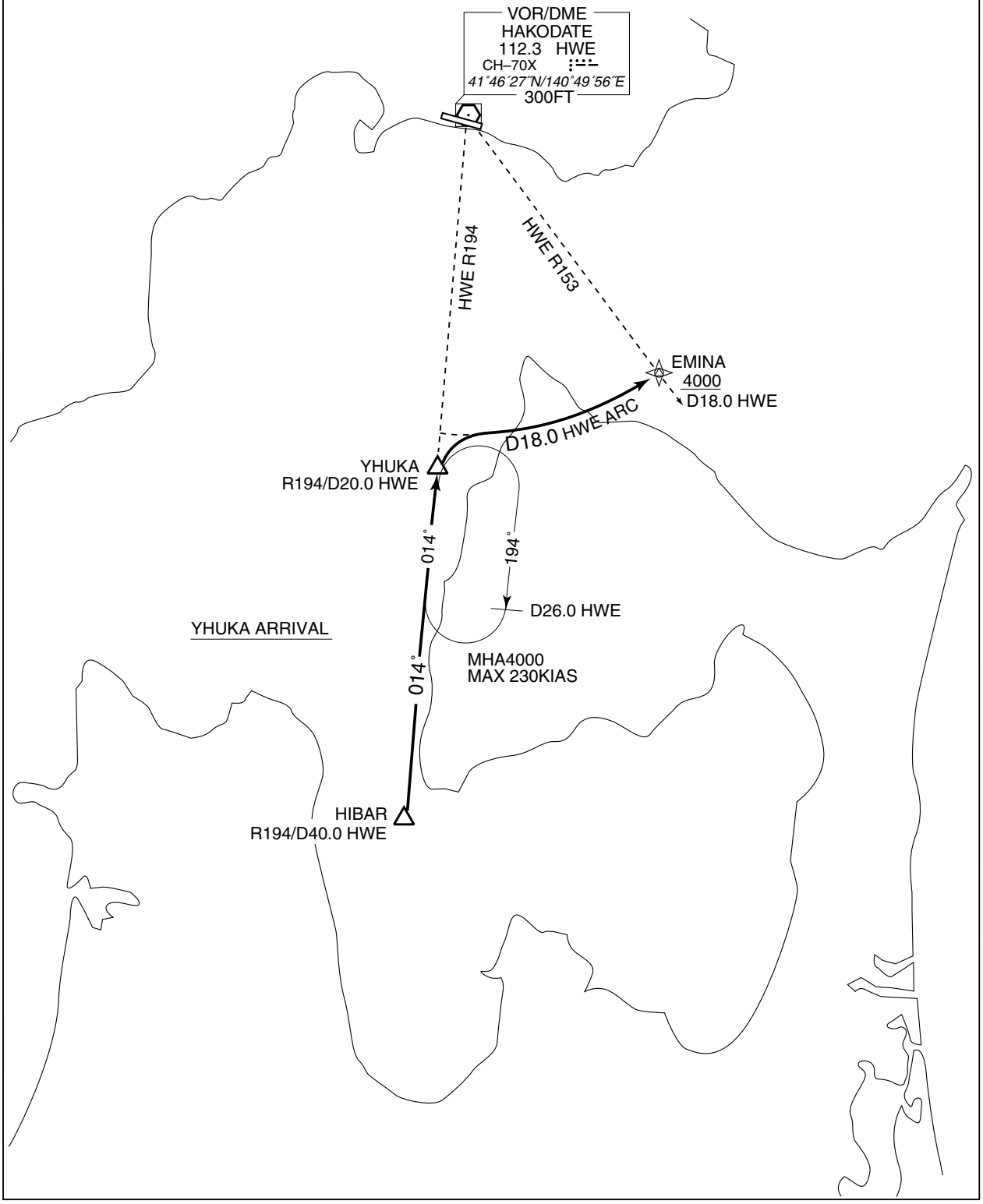
STANDARD ARRIVAL CHART - INSTRUMENT

RJCH / HAKODATE STAR

YHUKA ARRIVAL

From over HIBAR, via HWE R194 to YHUKA, turn right via HWE 18.0DME counterclockwise ARC to EMINA.

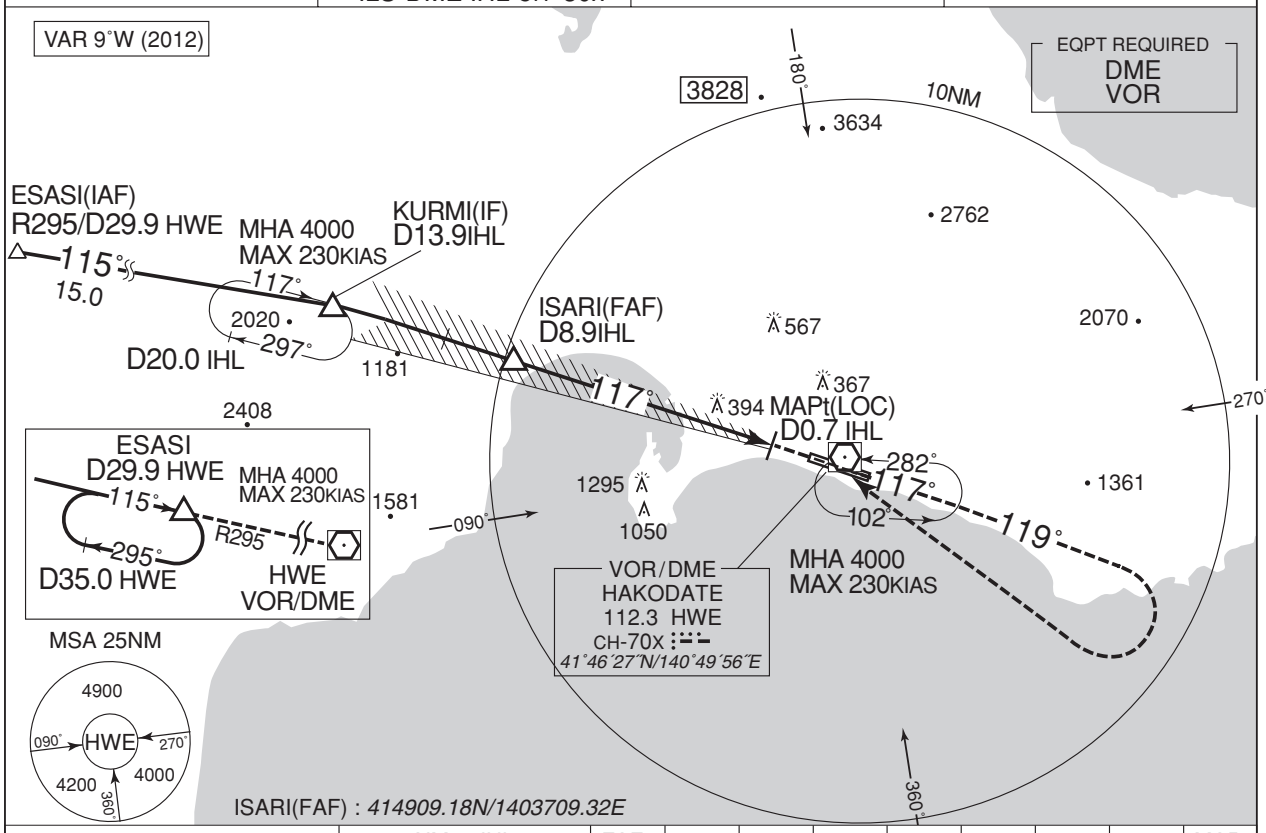
Cross EMINA at or above 4000FT.



INSTRUMENT APPROACH CHART

RJCH / HAKODATE — ILS Z or LOC Z RWY12

HAKODATE APP	ILS–LOC	HAKODATE TWR	RADAR AVBL
119.0 – 121.0 127.9	109.3 IHL ILS–GP 332.0 ILS-DME IHL CH–30x	118.35 – 126.2	ATIS 126.6



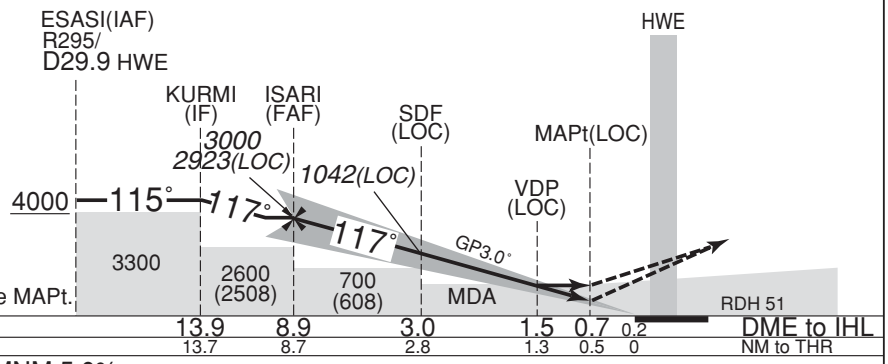
NM to IHL	FAF	8	7	6	5	4	3	2	MAPt
ALT (3.0˚ APCH Path)	2923	2634	2316	1997	1679	1361	1042	724	–

MISSED APPROACH

Climb on HDG117˚ to 600FT, via HWE R119 to 4000FT, turn right, direct to HWE VOR/DME and hold.

Contact HAKODATE APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 92 AD elev. 112

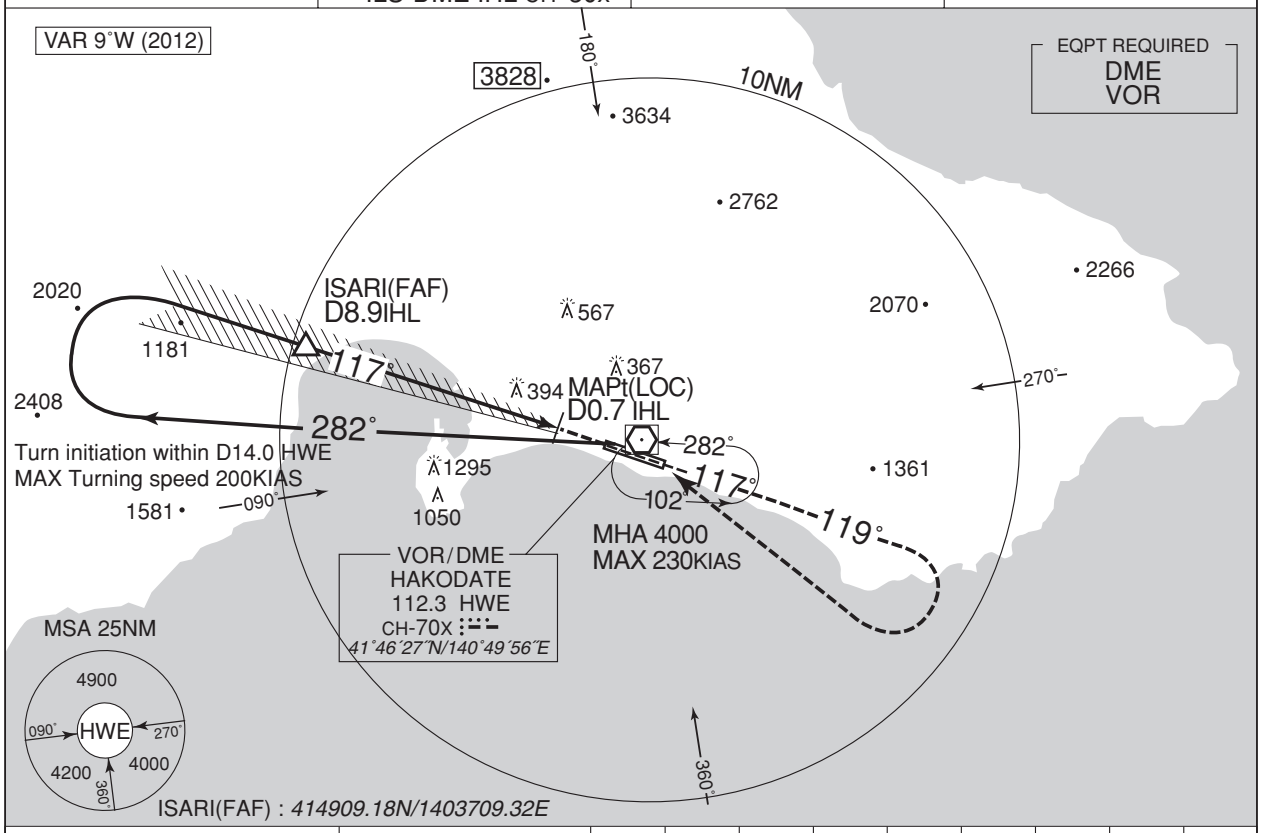
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	292 (200)	700	540 (448)	1200	550 (438)	1600
B				1300	570 (458)	
C	299 (207)			1400	600 (488)	2400
D	309 (217)			1600	690 (578)	3200

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

INSTRUMENT APPROACH CHART

RJCH / HAKODATE — ILS Y or LOC Y RWY12

HAKODATE APP	ILS-LOC	HAKODATE TWR	RADAR AVBL
119.0 – 121.0 127.9	109.3 IHL ILS–GP 332.0 ILS-DME IHL CH–30x	118.35 – 126.2	ATIS 126.6

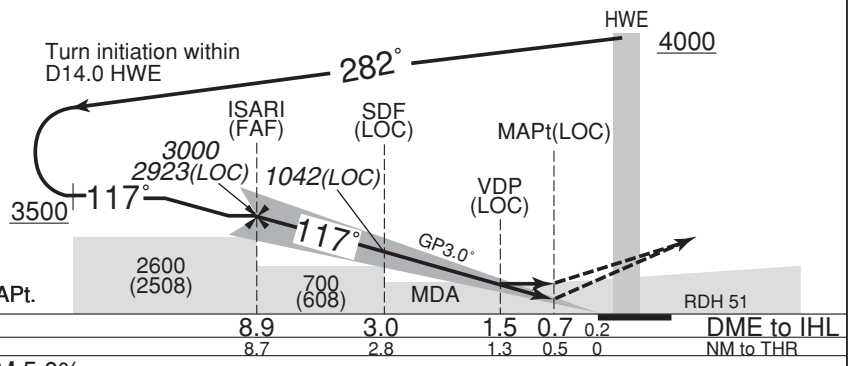


NM to IHL	FAF	8	7	6	5	4	3	2	MAPt
ALT (3.0˚ APCH Path)	2923	2634	2316	1997	1679	1361	1042	724	–

MISSED APPROACH

Climb on HDG117˚ to 600FT, via HWE R119 to 4000FT, turn right, direct to HWE VOR/DME and hold. Contact HAKODATE APP.

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 92 AD elev. 112

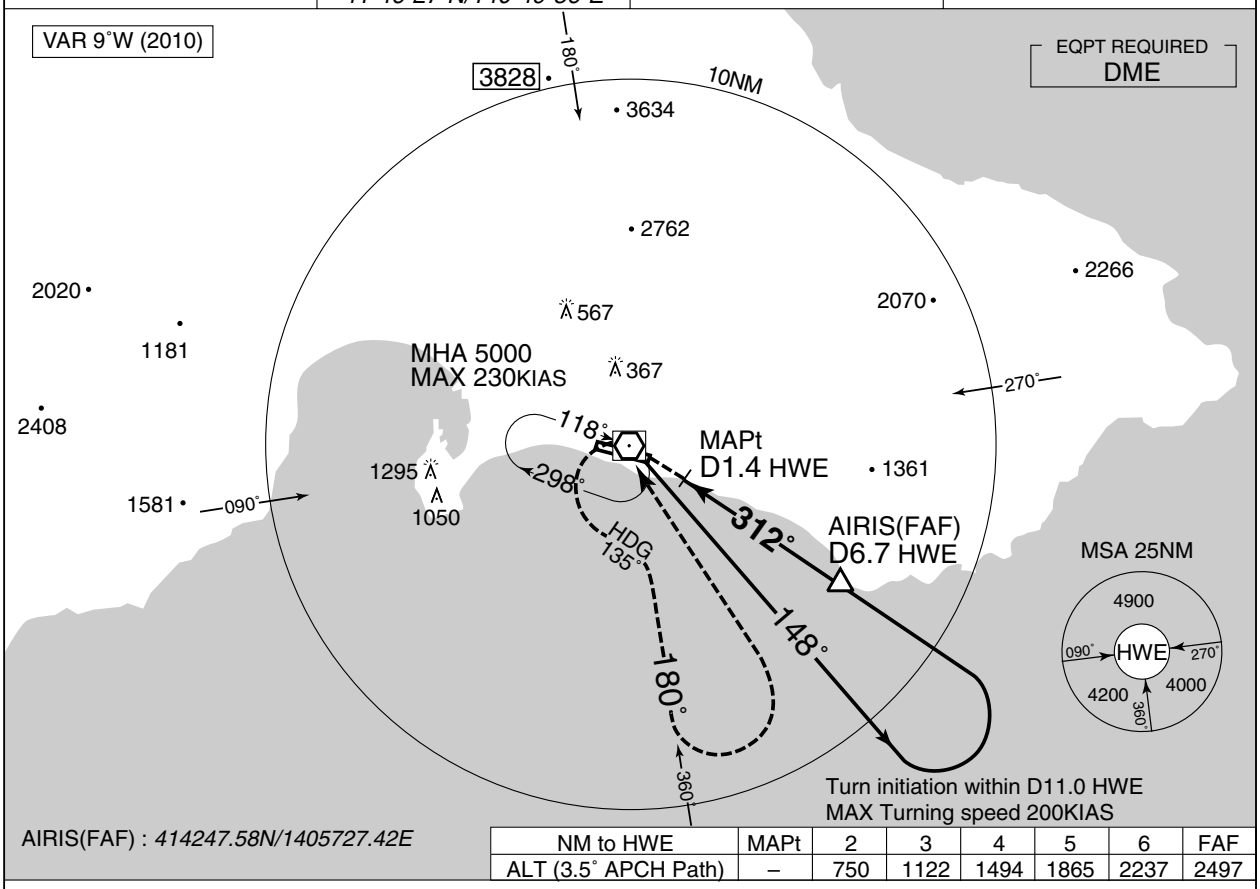
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	292 (200)	700	540 (448)	1200	550 (438)	1600
B				1300	570 (458)	
C	299 (207)			1400	600 (488)	2400
D	309 (217)			1600	690 (578)	3200

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

INSTRUMENT APPROACH CHART

RJCH / HAKODATE — VOR RWY30

HAKODATE APP	HAKODATE VOR/DME	HAKODATE TOWER	RADAR AVBL
119.0 – 121.0 127.9	112.3 HWE CH–70X *41˚46´27˝N/140˚49´56˝E*	118.35 – 126.2	ATIS 126.6

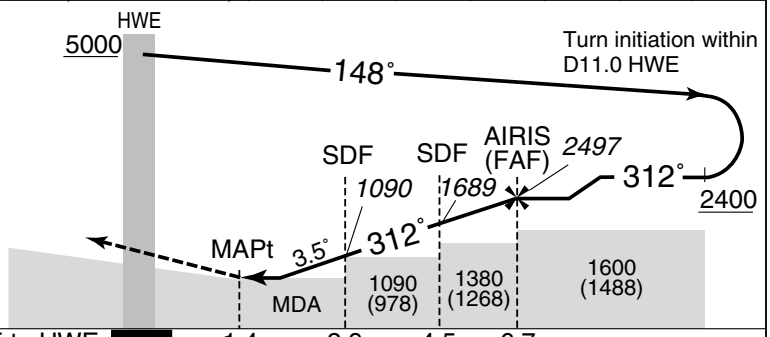


AIRIS(FAF) : *414247.58N/1405727.42E*

NM to HWE	MAPt	2	3	4	5	6	FAF
ALT (3.5˚ APCH Path)	–	750	1122	1494	1865	2237	2497

MISSED APPROACH
Turn left HDG135˚ to intercept HWE R180 to 3000FT, turn left direct to HWE VOR/DME and hold at 5000FT.
Contact HAKODATE APP.

No Turn before MAPt.
PAPI and descent angles not coincident.
Timing not authorized for definding the MAPt.



DME to HWE	0.5	1.4	2.9	4.5	6.7
NM to THR	0	0.9	2.4	4.0	6.2

MINIMA — THR elev. 151 — AD elev. 112

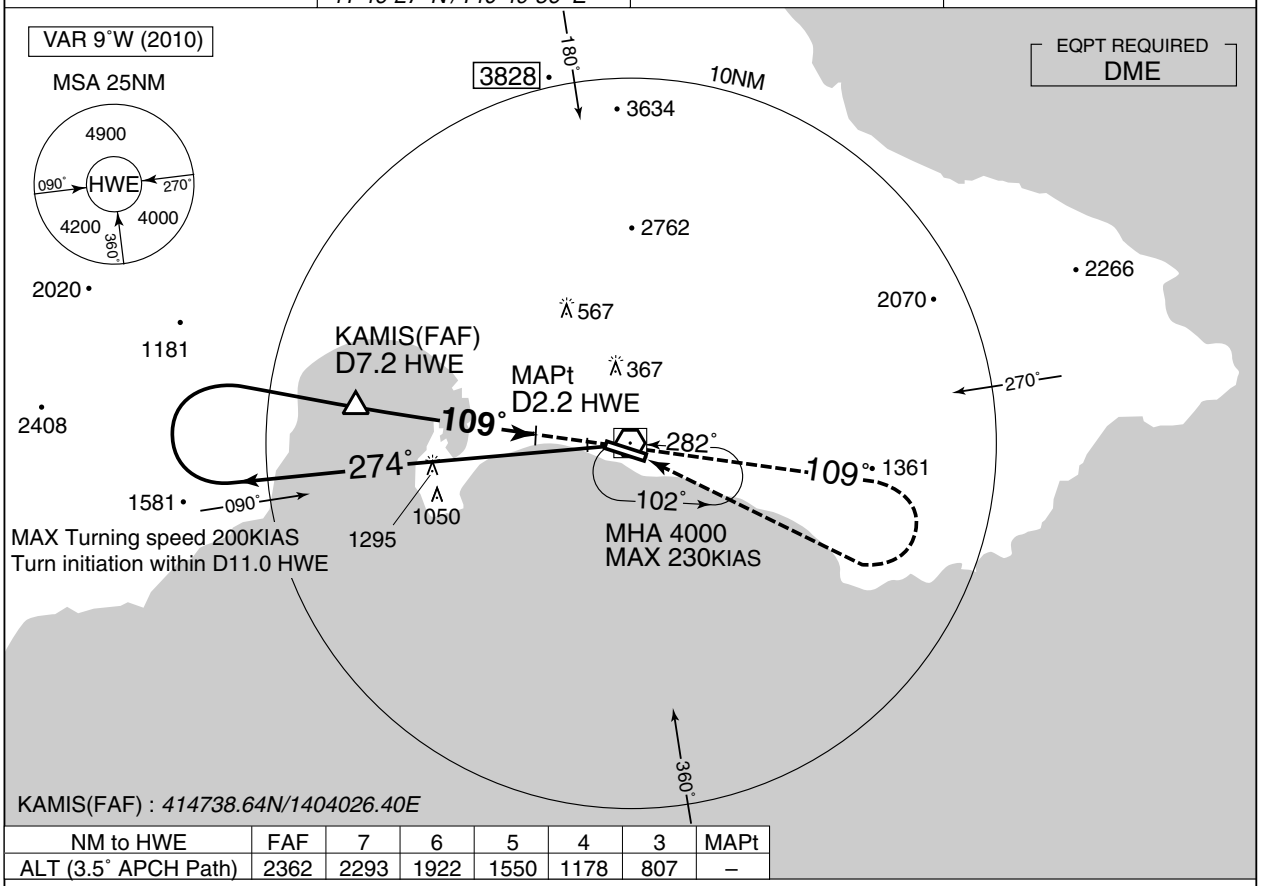
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	730 (618)	1000	730 (618)	1600
B		1200		
C				2400
D		1600		3200

Circling to SOUTH side of RWY only.

INSTRUMENT APPROACH CHART

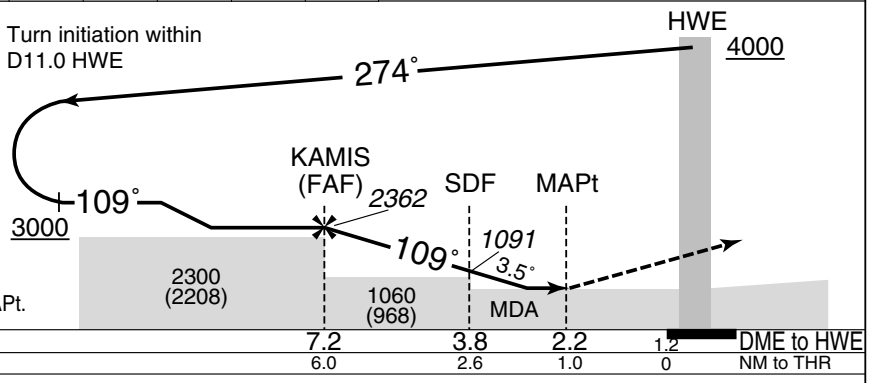
RJCH / HAKODATE VOR RWY12

HAKODATE APP	HAKODATE VOR/DME	HAKODATE TOWER	RADAR AVBL
119.0 – 121.0 127.9	112.3 HWE CH–70X 41°46´27˝N/140°49´56˝E	118.35 – 126.2	ATIS 126.6



NM to HWE	FAF	7	6	5	4	3	MAPt
ALT (3.5° APCH Path)	2362	2293	1922	1550	1178	807	–

MISSED APPROACH
Climb via HWE R109 to 4000FT, turn right direct to HWE VOR/DME and hold. Contact HAKODATE APP.



PAPI and descent angles not coincident.
Timing not authorized for definding the MAPt.

Missed APCH climb gradient MNM 3.6%

MINIMA THR elev. 92 AD elev. 112

CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	530 (438)	1200	550 (438)	1600
B		1300	570 (458)	
C		1400	600 (488)	2400
D		1600	690 (578)	3200

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

INSTRUMENT APPROACH CHART

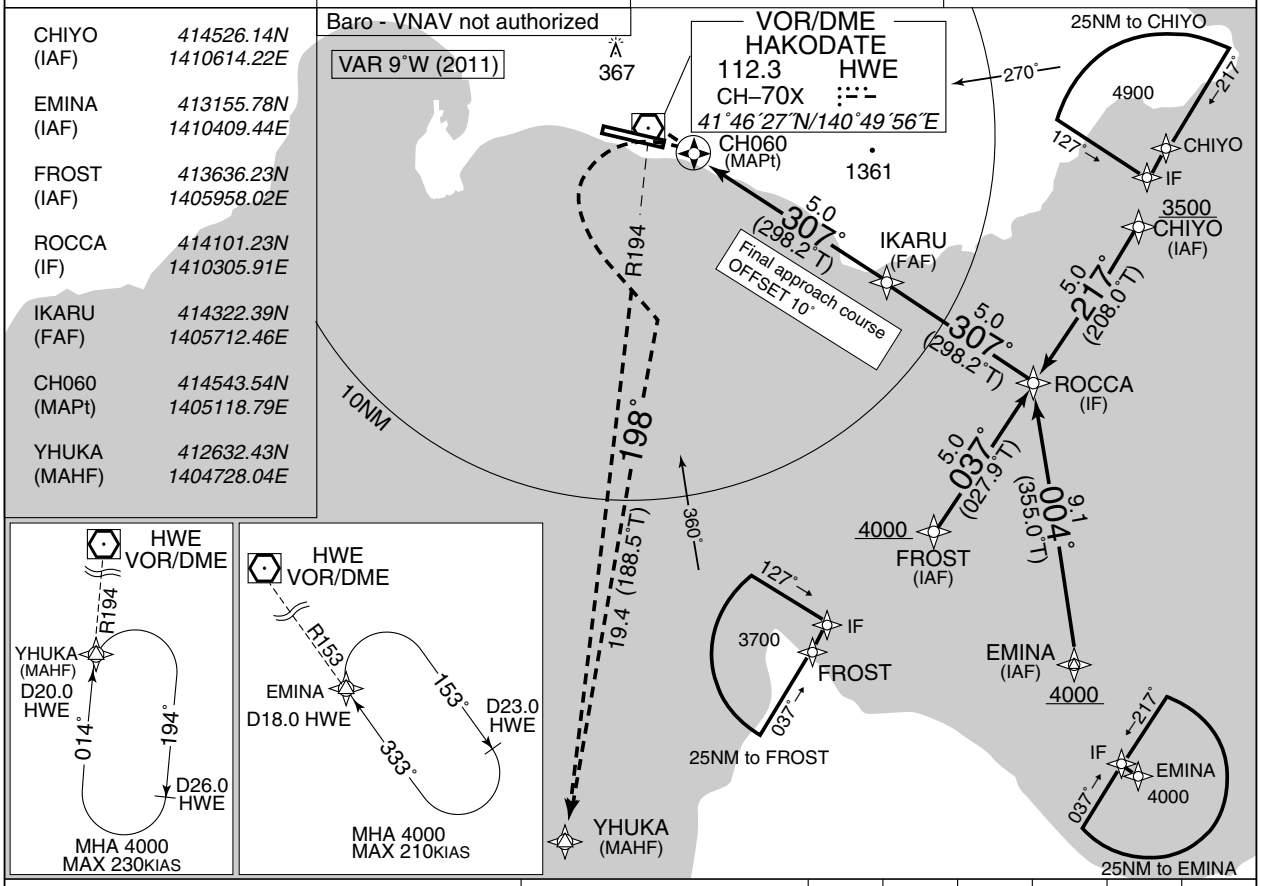
RJCH / HAKODATE — RNAV(GNSS) Z RWY30

HAKODATE APP		HAKODATE TOWER	RADAR AVBL
119.0 – 121.0 127.9	1. DME/DME not authorized. 2. RADAR service required. 3. GNSS required.	118.35 – 126.2	ATIS 126.6

CHIYO (IAF)	414526.14N 1410614.22E
EMINA (IAF)	413155.78N 1410409.44E
FROST (IAF)	413636.23N 1405958.02E
ROCCA (IF)	414101.23N 1410305.91E
IKARU (FAF)	414322.39N 1405712.46E
CH060 (MAPt)	414543.54N 1405118.79E
YHUKA (MAHF)	412632.43N 1404728.04E

Baro - VNAV not authorized

VAR 9°W (2011)

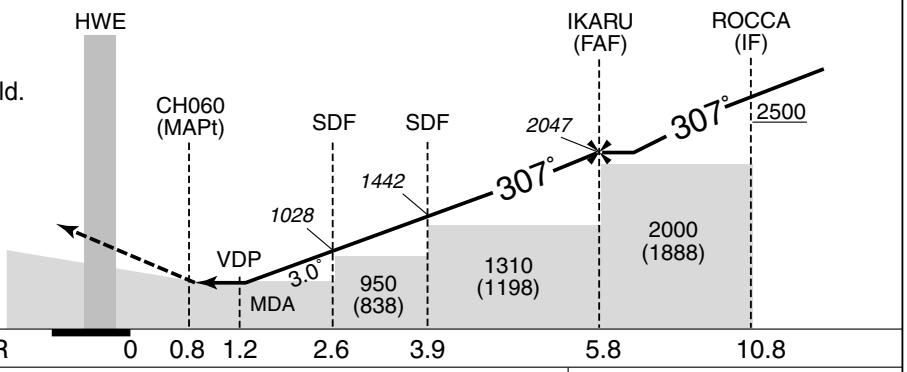


NM to Next Fix	MAPt	1	2	3	4	FAF
ALT (3.0° APCH Path)	–	774	1092	1411	1429	2047

MISSED APPROACH

Turn left climb to 4000FT
to YHUKA on track 198° and hold.
Contact HAKODATE APP.

(for using VOR/DME)
Turn left climb to 4000FT
via HWE R194 to YHUKA
and hold.
Contact HAKODATE APP.



NM to THR 0 0.8 1.2 2.6 3.9 5.8 10.8

MINIMA THR elev. 151 AD elev. 112

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	Not applicable		530 (418)	900	550 (438)	1600
B				1000	570 (458)	
C					600 (488)	2400
D			550 (438)	1400	690 (578)	3200

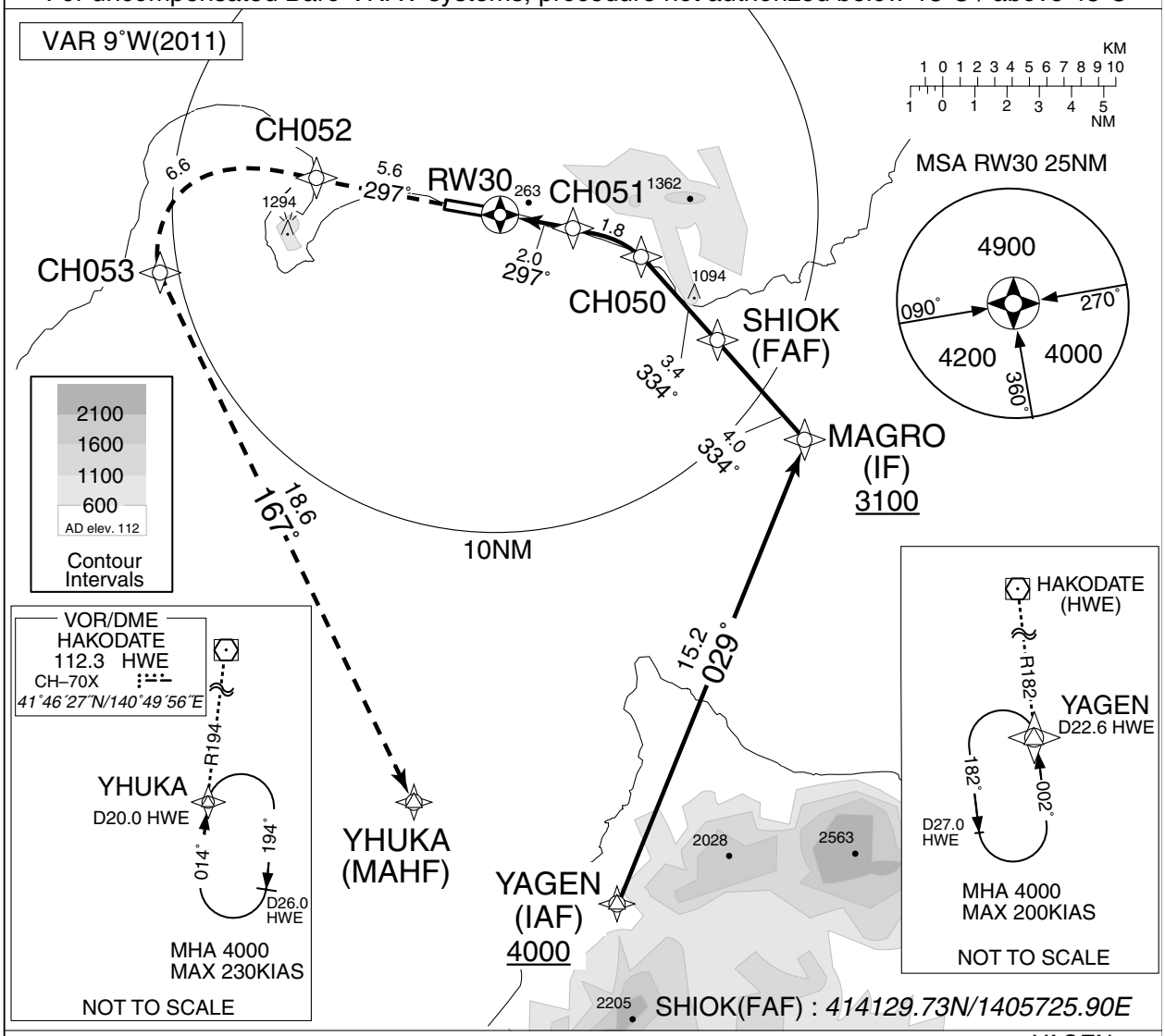
Circling to SOUTH side of RWY only.

INSTRUMENT APPROACH CHART

RJCH / HAKODATE — RNAV(RNP) Y RWY30

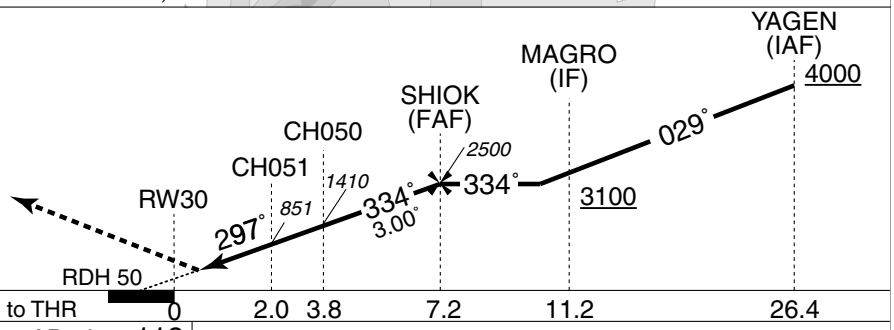
HAKODATE APP	GNSS and RF required	HAKODATE TWR	RADAR AVBL
119.0 – 121.0 127.9		118.35 – 126.2	ATIS 126.6

For uncompensated Baro-VNAV systems, procedure not authorized below-15˚C / above 45˚C



MISSED APPROACH

Climb to 4000FT, to CH052,
to CH053 via fixed radius turn,
to YHUKA and hold.
Contact HAKODATE APP.



MINIMA	THR elev. 151	AD elev. 112
CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B		
C	522 (371)	1000
D		1400

RNP AR

Special Authorization Required

INSTRUMENT APPROACH CHART

RJCH / HAKODATE RNAV(RNP) Y RWY30

RNAV(RNP) Y RWY30

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	YAGEN	—	—	-8.9	—	—	+4000	—	—	—
002	TF	MAGRO	—	029 (020.2)	-8.9	15.2	—	+3100	—	—	1.0
003	TF	SHIOK	—	334 (325.1)	-8.9	4.0	—	2500	—	—	1.0
004	TF	CH050	—	334 (325.0)	-8.9	3.4	—	1410	—	-3.00	0.3
005	RF Center: CHRF1 r=2.74NM	CH051	—	—	-8.9	1.8	L	851	—	-3.00	0.3
006	TF	RW30	Y	297 (288.1)	-8.9	2.0	—	201	—	-3.00/50	0.3
007	TF	CH052	—	297 (288.1)	-8.9	5.6	—	—	—	—	1.0
008	RF Center: CHRF2 r=2.90NM	CH053	—	—	-8.9	6.6	L	—	—	—	1.0
009	TF	YHUKA	—	167 (158.5)	-8.9	18.6	—	4000	—	—	1.0

Waypoint Coordinates

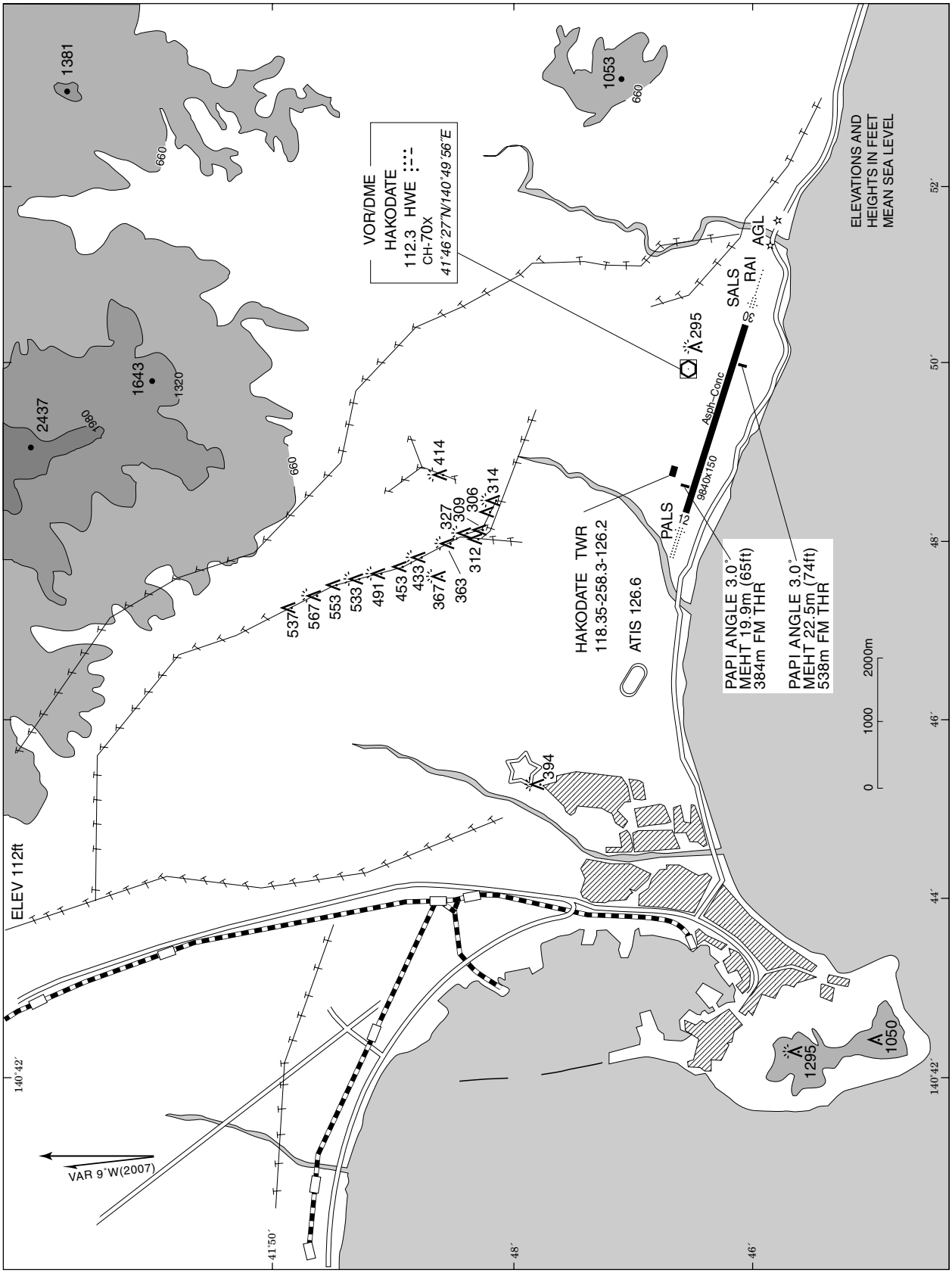
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
YAGEN	*412358.17N/1405329.09E*	CHRF1	*414243.29N/1405148.88E*
MAGRO	*413813.12N/1410029.95E*	CHRF2	*414456.26N/1404159.49E*
SHIOK	*414129.73N/1405725.90E*		
CH050	*414417.82N/1405448.22E*		
CH051	*414519.47N/1405256.91E*		
RW30	*414557.54N/1405021.00E*		
CH052	*414742.10N/1404311.31E*		
CH053	*414352.33N/1403822.94E*		
YHUKA	*412632.43N/1404728.04E*		

RJCH / HAKODATE

Visual REP

Call sign	BRG / DIST from ARP	Remarks
矢　　別 Yabetsu	052°/ 5.7NM	ダム Dam
恵　山　岬 Esanmisaki	089°/16.4NM	灯台 Lighthouse
汐　首　岬 Shiokubimisaki	128°/ 7.3NM	灯台 Lighthouse
大　間　崎 Ohmazaki	170°/14.2NM	岬 Cape
5NM S	180°/ 5.0NM	海上 Over the sea
美　　原 Mihara	319°/ 4.5NM	ラジオアンテナ Radio antenna
桔　　梗 Kikyou	325°/ 5.7NM	JR駅 JR Station
当　　別 Tohbetsu	270°/11.5NM	トラピスト修道院 Religious house
函　館　山 Hakodateyama	271°/ 5.3NM	テレビ塔 TV tower
大　　沼 Ohnuma	340°/14.4NM	JR駅 JR Station

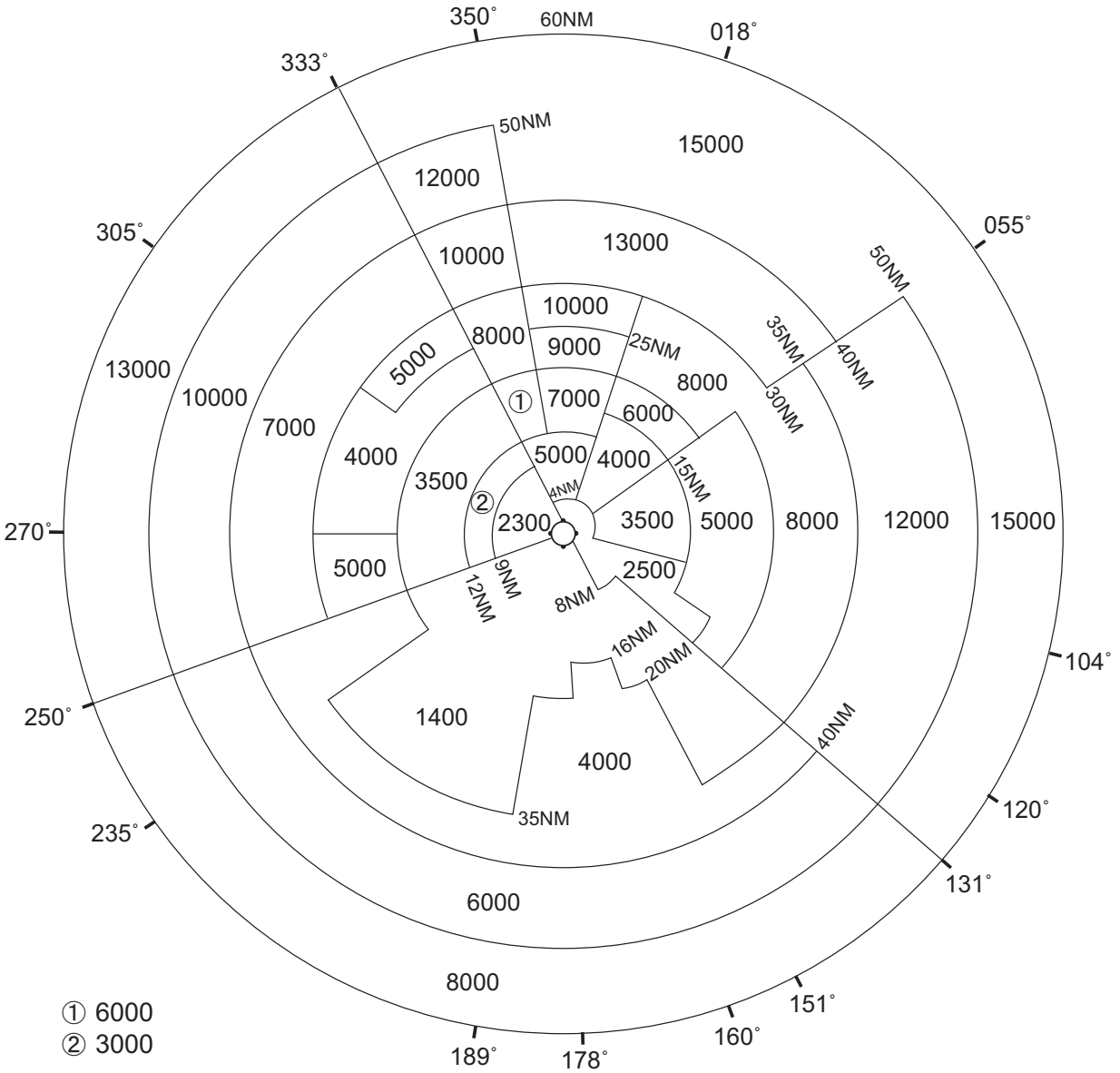
LDG CHART


ELEV 112ft
VAR 9°W(2007)
140°42′
41°50′
48′
46′
44′
50′
52′
1381
660
2437
1980
1643
1320
1053
VOR/DME
HAKODATE
112.3 HWE
CH-70X
41°46′27″N/140°49′56″E
414
327
309
306
314
312
363
367
433
453
491
533
553
567
537
394
295
HAKODATE TWR
118.35-258.3-126.2
ATIS 126.6
PALS
13
9840x150
Asph-Conc
SALS
RAI
AGL
PAPI ANGLE 3.0°
MEHT 19.9m (65ft)
384m FM THR
PAPI ANGLE 3.0°
MEHT 22.5m (74ft)
538m FM THR
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
0
1000
2000m
1295
1050

RJCH / HAKODATE

Minimum Vectoring Altitude CHART

VAR 9˚W (2009)



CHANGE : DIST added(15NM)

CENTER : *414632N/1404907E* (RADAR SITE)