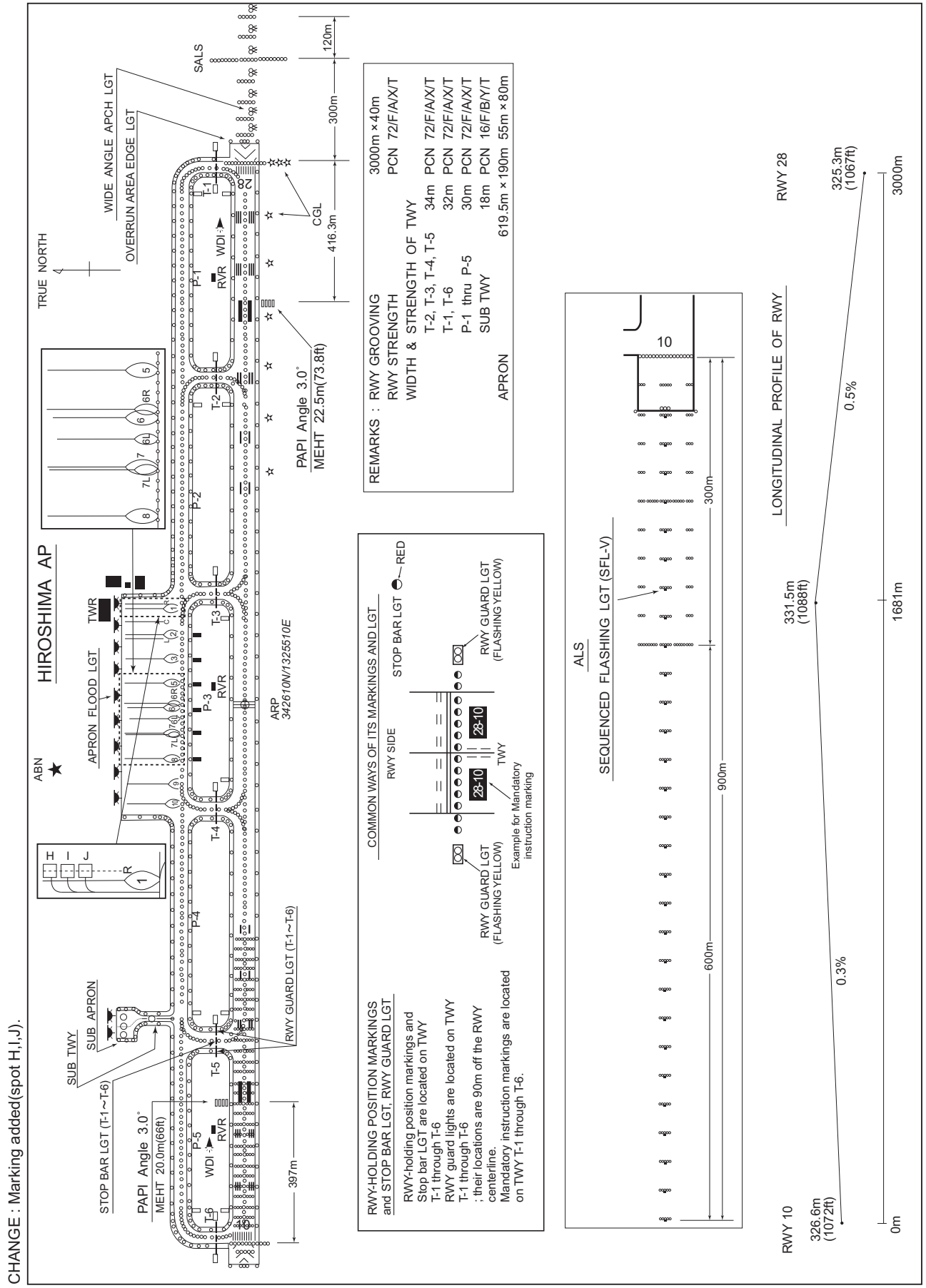
RJOA / HIROSHIMA

AD CHART



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AERODROME OBSTACLE CHART-ICAO

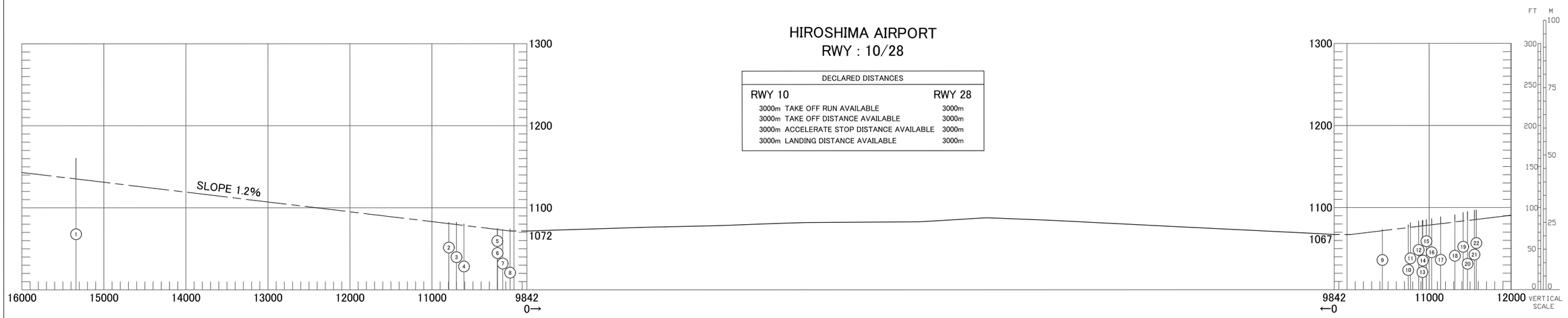
TYPE A (OPERATING LIMITATIONS)

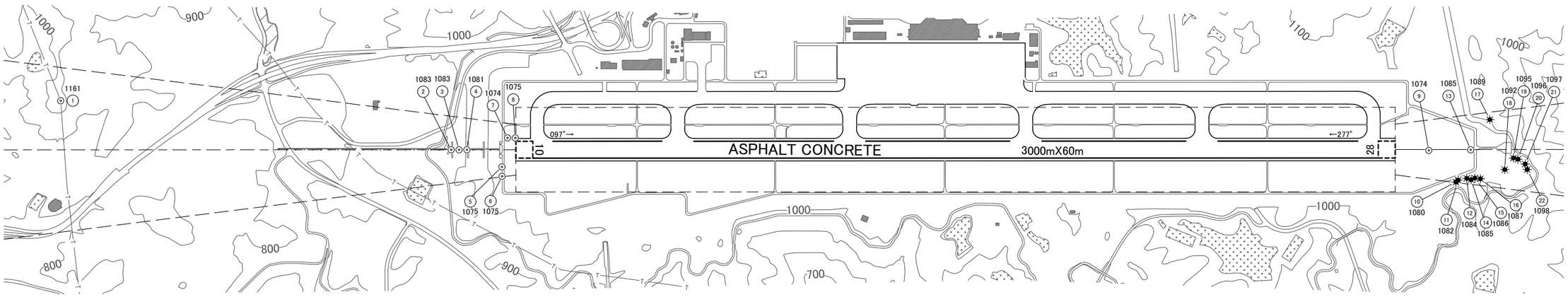
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 7° W-APR 2019

HIROSHIMA AIRPORT
RWY : 10/28

DECLARED DISTANCES	
RWY 10	RWY 28
3000m TAKE OFF RUN AVAILABLE	3000m
3000m TAKE OFF DISTANCE AVAILABLE	3000m
3000m ACCELERATE STOP DISTANCE AVAILABLE	3000m
3000m LANDING DISTANCE AVAILABLE	3000m





HORIZONTAL SCALE

FEET

1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000ft

300 0 500 1000 1500 2000 2500m

METER

LEGEND

- IDENTIFICATION NUMBER
- POLE, TOWER, SPIRE, ANTENNA, ETC
- OBSTRUCTION LIGHT
- BUILDING OR LARGE STRUCTURE
- RAILROAD
- TRIANGULATION POINT
- TRANSMISSION LINE OR OVERHEAD CABLE
- LEVEE
- RIVER
- TREE
- LAKE
- CONTOURS(ft)

AMENDMENT RECORD		
Nr	DATE	ENTERED BY

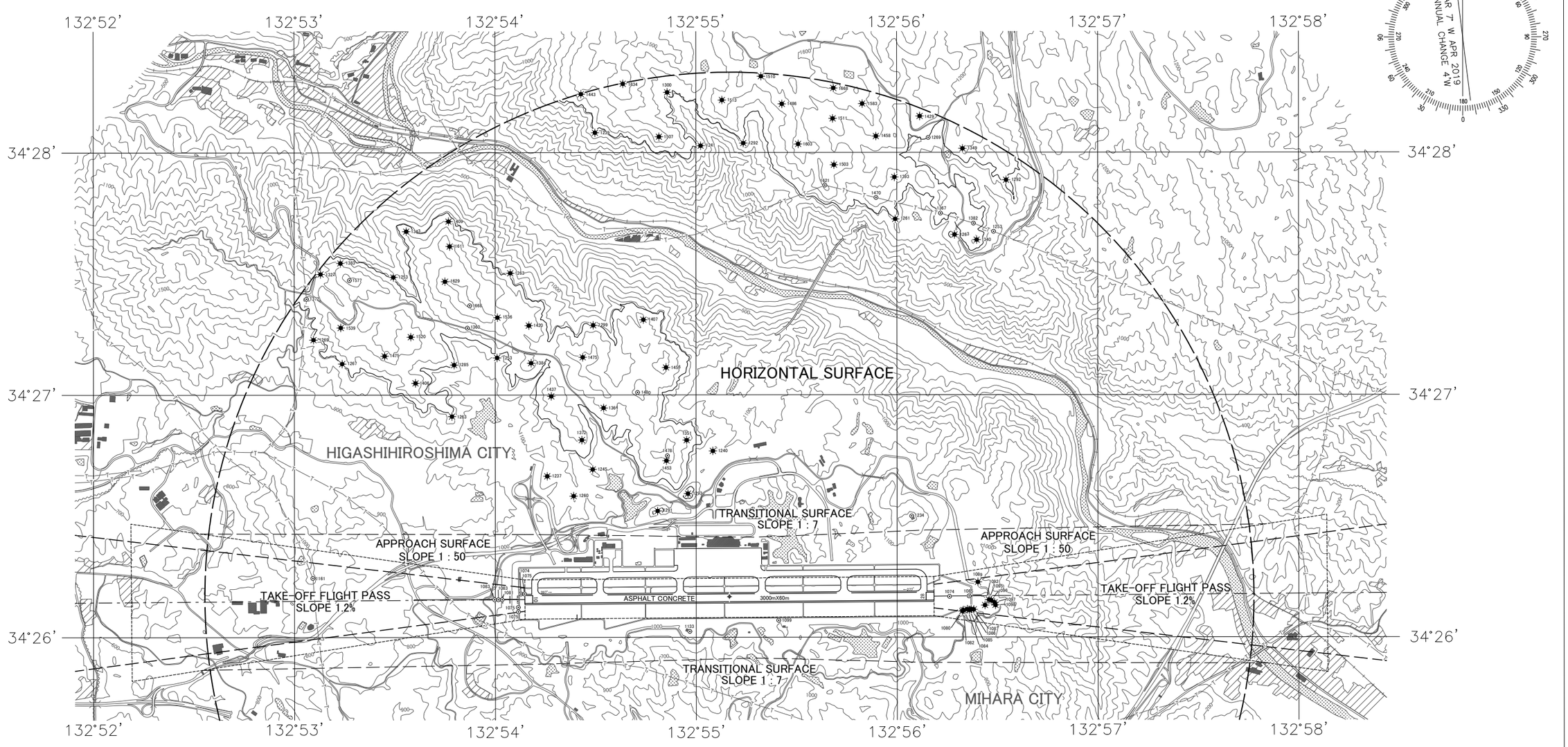
CHANGE:Correction of misdescription(RWY width:45m→60m).

AERODROME OBSTACLE CHART-ICAO

TYPE B (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME ELEVATION 1086ft ARP



HORIZONTAL SCALE

FEET
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000ft

METER
300 0 500 1000 1500 2000 2500 3000m

LEGEND

- AERODROME REFERENCE POINT 34°26'10"N 132°55'10"E
- POLE, TOWER, SPIRE, ANTENNA, ETC
- AERONAUTICAL GROUND LIGHT
- OBSTRUCTION LIGHT
- BUILDING OR LARGE STRUCTURE
- RAILROAD
- TERRAIN PENETRATING OBSTACLE PLANE
- TRANSMISSION LINE OR OVERHEAD CABLE
- LEVEE
- TREE
- RIVER
- LAKE
- CONTOURS(ft)

AMENDMENT RECORD		
NO	DATE	ENTERED BY

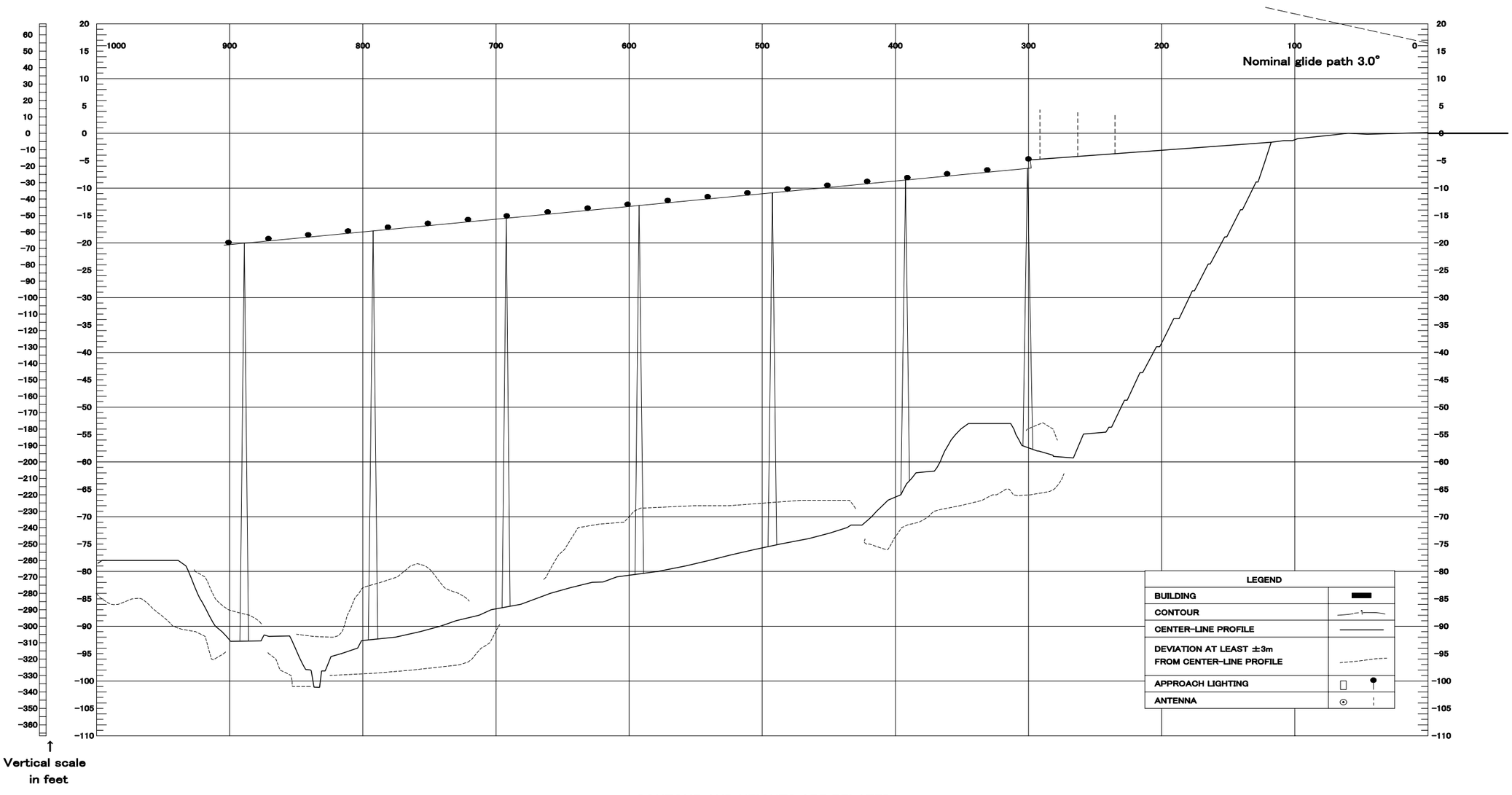
CHANGE:Correction of misdescription(RWY width:45m→60m).

PRECISION APPROACH TERRAIN CHART-ICAO

PRICISION APPROACH TERRAIN CHART

DISTANCES AND HEIGHTS IN METERS

RWY 10



CONTOUR AND HEIGHTS ARE RELATED
TO ELEVATION OF RWY THR

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA — SID and TRANSITION

CHANGE: OTSU TRANSITION abolished. OTSU VOR/DME(CUE) abolished.

TOJYO THREE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn left to intercept and proceed via HGE R040 to TOJYO...

RWY 28 : Climb on HDG 270˚ to HGE 5.0DME(4.0NM FM DER), turn right HDG 085˚ to intercept and proceed via HGE R-040 to TOJYO...
...Cross TOJYO at or above 12000FT.

Note : RWY10 : 3.5% climb gradient required up to 1900FT.
OBST ALT 1579FT located at 023˚/3.31NM FM DER.
RWY28 : 3.4% climb gradient required up to 1600FT.
OBST ALT 2484FT located at 337˚/7.77NM FM DER.

MIYAZU TRANSITION

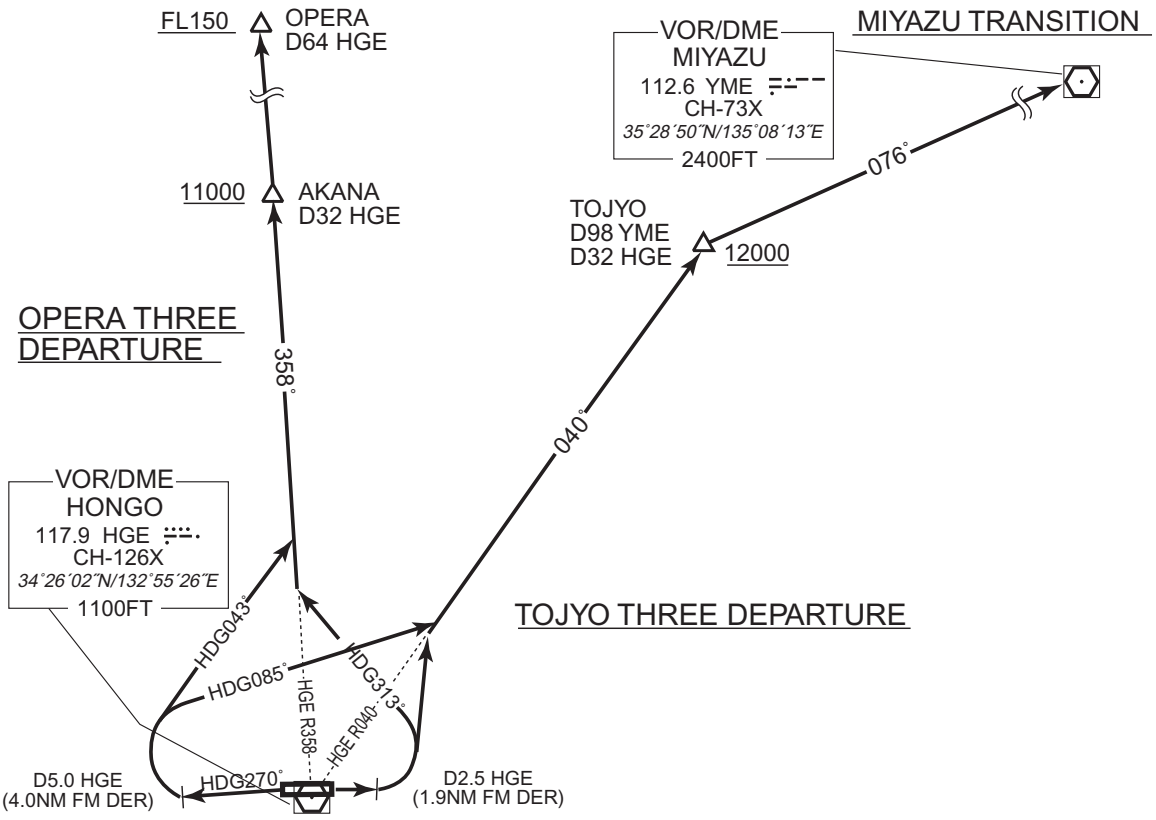
From over TOJYO, proceed via YME R256 to YME VOR/DME.

OPERA THREE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn left HDG 313˚....

RWY 28 : Climb on HDG 270˚ to HGE 5.0DME(4.0NM FM DER), turn right HDG 043˚....
....to intercept and proceed via HGE R358 to OPERA, via AKANA.
Cross AKANA at or above 11000FT, cross OPERA at or above FL150.

Note : RWY10 : 3.5% climb gradient required up to 1900FT.
OBST ALT 1579FT located at 023˚/3.31NM FM DER.
RWY28 : 3.8% climb gradient required up to 3300FT.
OBST ALT 3025FT located at 329˚/11.0NM FM DER.



STANDARD DEPARTURE CHART - INSTRUMENT

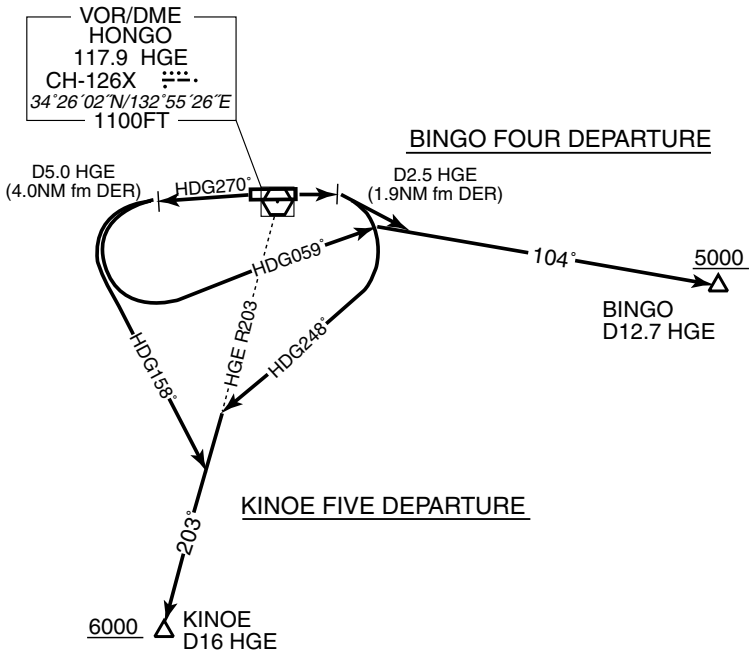
RJOA / HIROSHIMA SID

BINGO FOUR DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn right....
RWY 28 : Climb on HDG 270˚ to HGE 5.0DME(4.0NM FM DER), turn left HDG 059˚....
....to intercept and proceed via HGE R104 to BINGO.
Cross BINGO at or above 5000FT.

KINOE FIVE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 2.5DME(1.9NM FM DER), turn right HDG 248˚....
RWY 28 : Climb on HDG 270˚ to HGE 5.0DME(4.0NM FM DER), turn left HDG 158˚....
....to intercept and proceed via HGE R203 to KINOE.
Cross KINOE at or above 6000FT.



STANDARD DEPARTURE CHART - INSTRUMENT

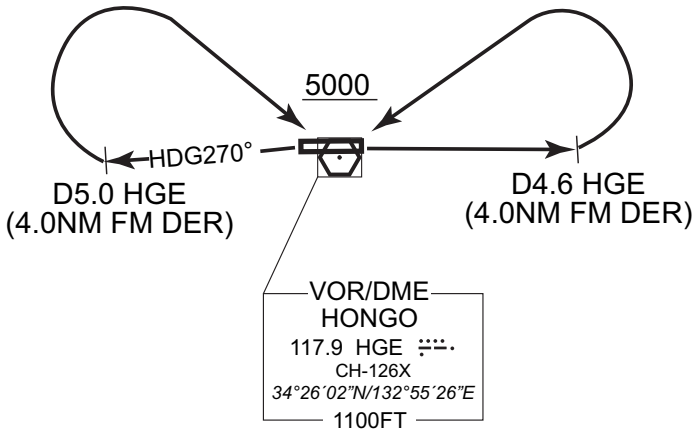
RJOA / HIROSHIMA SID and TRANSITION

HONGO REVERSAL THREE DEPARTURE

RWY 10 : Climb RWY HDG to HGE 4.6DME(4.0NM FM DER), turn left....,
RWY 28 : Climb on HDG 270° to HGE 5.0DME(4.0NM FM DER), turn right....,
....direct to HGE VOR/DME. Cross HGE VOR/DME at or above 5000FT.

Note : RWY10 : 3.8% climb gradient required up to 2300FT.
OBST ALT 2002FT located at 093°/5.73NM FM DER.
RWY28 : 3.4% climb gradient required up to 1600FT.
OBST ALT 2484FT located at 337°/7.77NM FM DER.

HONGO REVERSAL THREE DEPARTURE



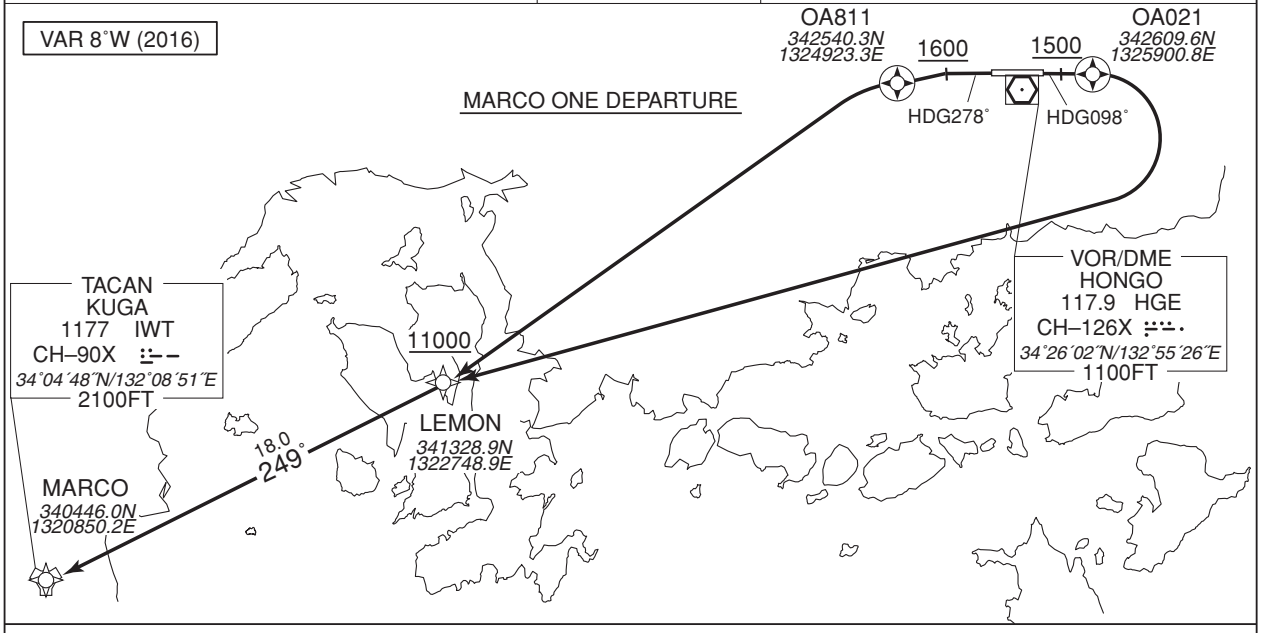
STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA RNAV SID

MARCO ONE DEPARTURE — 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 rolling.
2) RADAR service required.

Critical DME	–
DME GAP	RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



MARCO ONE DEPARTURE

RWY10 : Climb on HDG098˚ at or above 1500FT, direct to OA021, turn right direct to LEMON at or above 11000FT, to MARCO.

RWY28 : Climb on HDG278˚ at or above 1600FT, direct to OA811, turn left direct to LEMON at or above 11000FT, to MARCO.

NOTE RWY10 : 5.0% climb gradient required up to 1500FT.
RWY28 : 3.6% climb gradient required up to 1600FT.

MARCO ONE DEPARTURE

RWY10

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	–	–	098 (090.0)	-7.6	–	–	+1500	–	–	RNAV1
002	DF	OA021	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	LEMON	–	–	-7.6	–	R	+11000	–	–	RNAV1
004	TF	MARCO	–	249 (241.1)	-7.6	18.0	–	–	–	–	RNAV1

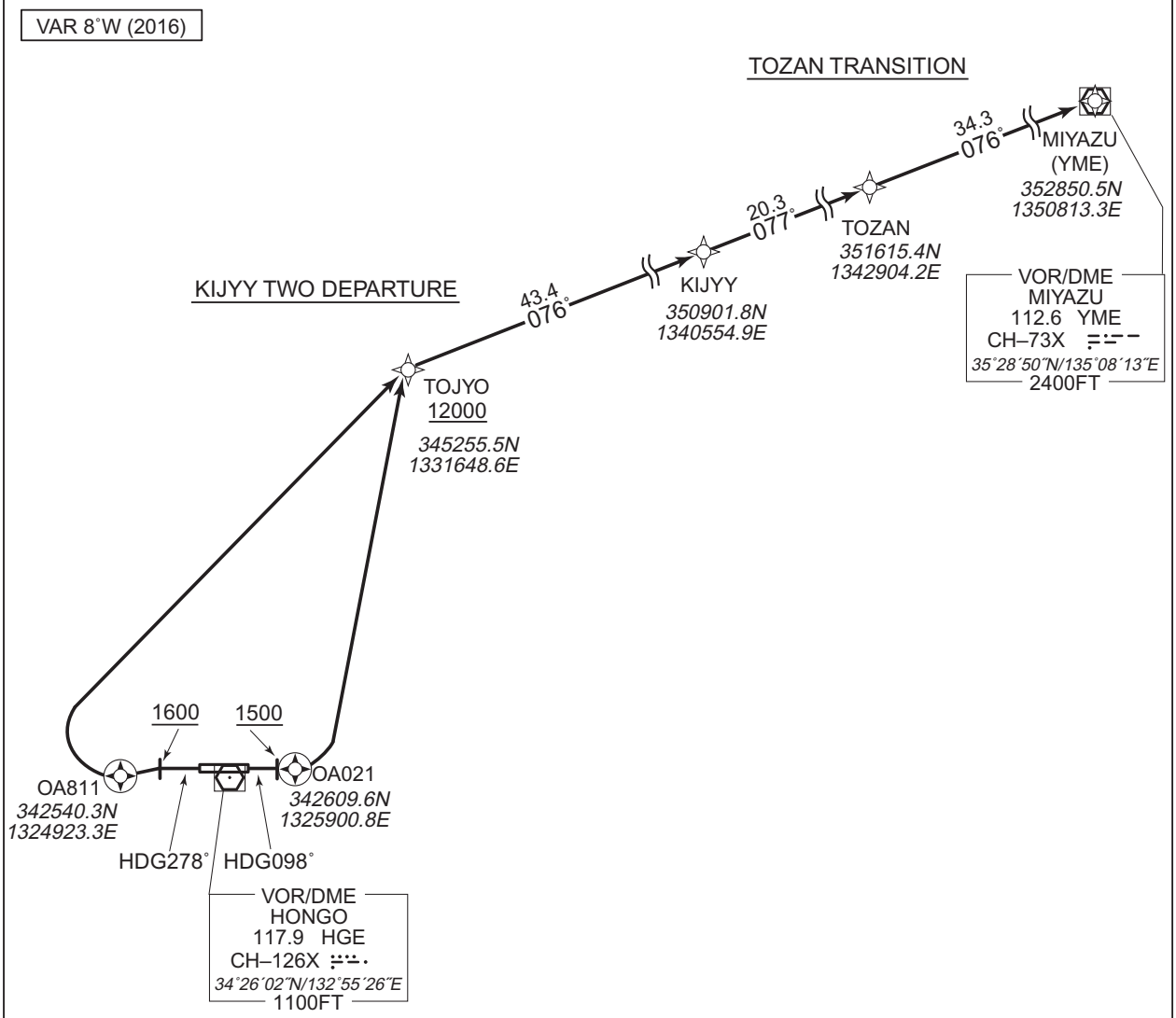
RWY28

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	–	–	278 (270.0)	-7.6	–	–	+1600	–	–	RNAV1
002	DF	OA811	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	LEMON	–	–	-7.6	–	L	+11000	–	–	RNAV1
004	TF	MARCO	–	249 (241.1)	-7.6	18.0	–	–	–	–	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA — RNAV SID and TRANSITION

KIJYY TWO DEPARTURE		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	HGE : OA021 ～ 27NM to TOJYO TZT : OA021 ～ 24NM to TOJYO
	DME GAP	RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



KIJYY TWO DEPARTURE

RWY10 : Climb on HDG098˚ at or above 1500FT, direct to OA021, turn left direct to TOJYO at or above 12000FT, to KIJYY.

RWY28 : Climb on HDG278˚ at or above 1600FT, direct to OA811, turn right direct to TOJYO at or above 12000FT, to KIJYY.

NOTE RWY10 : 5.0% climb gradient required up to 1600FT.
OBST ALT 2090FT located at 5.74NM 087˚ FM end of RWY10.
RWY28 : 3.6% climb gradient required up to 2700FT.
OBST ALT 2570FT located at 7.71NM 337˚ FM end of RWY28.

TOZAN TRANSITION

From KIJYY, to TOZAN, to YME.

CHANGE: Correction of misdescription (Course FM TOZAN to MIYAZU).

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA RNAV SID and TRANSITION

KIJYY TWO DEPARTURE

RWY10

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	–	–	098 (090.0)	-7.6	–	–	+1500	–	–	RNAV1
002	DF	OA021	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TOJYO	–	–	-7.6	–	L	+12000	–	–	RNAV1
004	TF	KIJYY	–	076 (067.9)	-7.6	43.4	–	–	–	–	RNAV1

RWY28

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	–	–	278 (270.0)	-7.6	–	–	+1600	–	–	RNAV1
002	DF	OA811	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TOJYO	–	–	-7.6	–	R	+12000	–	–	RNAV1
004	TF	KIJYY	–	076 (067.9)	-7.6	43.4	–	–	–	–	RNAV1

TOZAN TRANSITION

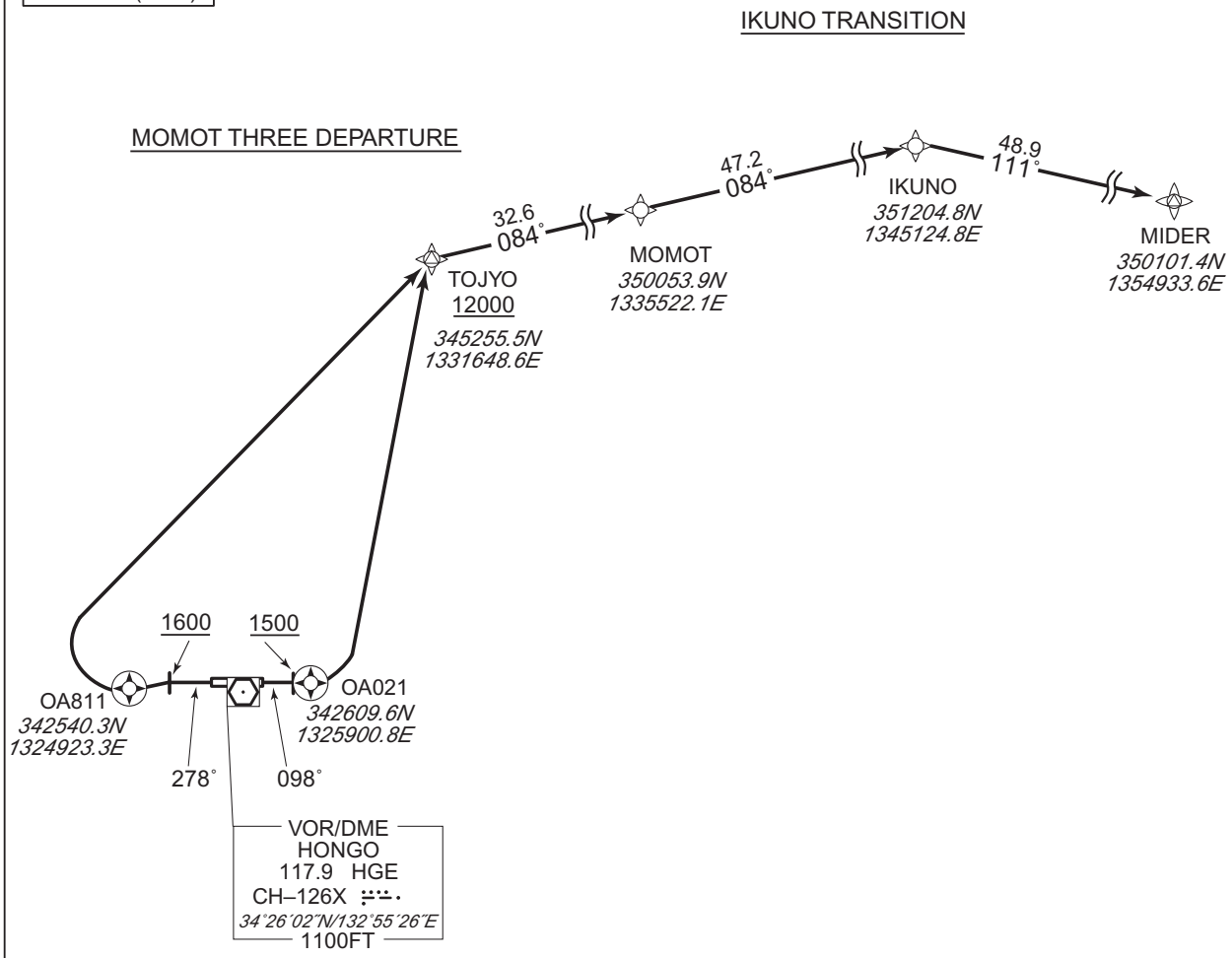
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIJYY	–	–	-7.6	–	–	–	–	–	RNAV1
002	TF	TOZAN	–	077 (069.0)	-7.6	20.3	–	–	–	–	RNAV1
003	TF	YME	–	076 (068.3)	-7.6	34.3	–	–	–	–	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA — RNAV SID and TRANSITION

MOMOT THREE DEPARTURE		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	HGE : OA021 ～ 27NM to TOJYO TZT : OA021 ～ 24NM to TOJYO OKT : 25NM to IKUNO ～ 19NM to IKUNO
	DME GAP	RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8˚W (2020)



MOMOT THREE DEPARTURE

RWY10 : Climb on HDG098˚ at or above 1500FT, direct to OA021, turn left direct to TOJYO at or above 12000FT, to MOMOT.

RWY28 : Climb on HDG278˚ at or above 1600FT, direct to OA811, turn right direct to TOJYO at or above 12000FT, to MOMOT.

NOTE RWY10 : 5.0% climb gradient required up to 1600FT.
OBST ALT 2090FT located at 5.74NM 087˚ FM end of RWY10.
RWY28 : 3.6% climb gradient required up to 2700FT.
OBST ALT 2570FT located at 7.71NM 337˚ FM end of RWY28.

IKUNO TRANSITION

From MOMOT, to IKUNO, to MIDER.

CHANGE: VAR. PROC course. SID renamed. OTSU VOR/DME(CUE) abolished. MIDER established.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA RNAV SID and TRANSITION

MOMOT THREE DEPARTURE

RWY10

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	–	–	098 (090.0)	-7.9	–	–	+1500	–	–	RNAV1
002	DF	OA021	Y	–	-7.9	–	–	–	–	–	RNAV1
003	DF	TOJYO	–	–	-7.9	–	L	+12000	–	–	RNAV1
004	TF	MOMOT	–	084 (075.7)	-7.9	32.6	–	–	–	–	RNAV1

RWY28

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	–	–	278 (270.0)	-7.9	–	–	+1600	–	–	RNAV1
002	DF	OA811	Y	–	-7.9	–	–	–	–	–	RNAV1
003	DF	TOJYO	–	–	-7.9	–	R	+12000	–	–	RNAV1
004	TF	MOMOT	–	084 (075.7)	-7.9	32.6	–	–	–	–	RNAV1

IKUNO TRANSITION

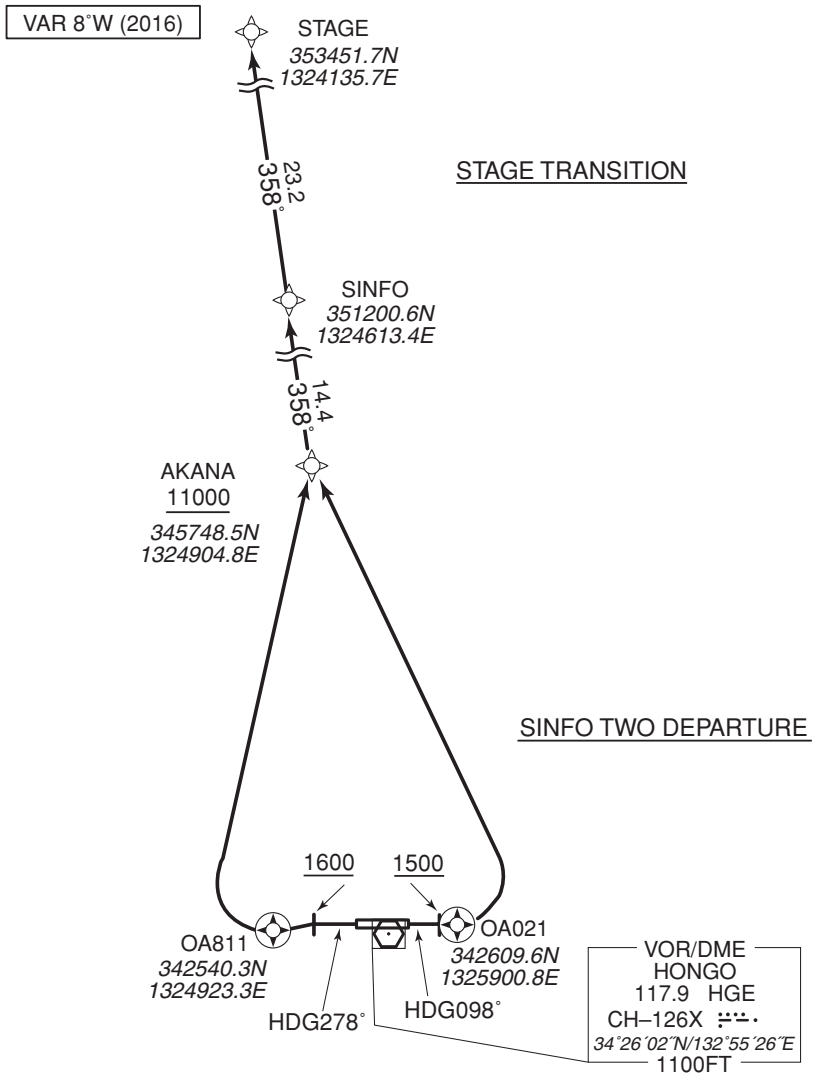
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MOMOT	–	–	-7.9	–	–	–	–	–	RNAV1
002	TF	IKUNO	–	084 (076.0)	-7.9	47.2	–	–	–	–	RNAV1
003	TF	MIDER	–	111 (102.8)	-7.9	48.9	–	–	–	–	RNAV1

CHANGE: VAR. Course FM TOJYO to MOMOT. CUE abolished. MIDER established.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV SID and TRANSITION

SINFO TWO DEPARTURE		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	MYE : OA021 ～ 31NM to AKANA TRE : SINFO ～ STAGE
	DME GAP	RWY10 : DER – OA021 RWY28 : DER – 2NM to OA811
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



SINFO TWO DEPARTURE

RWY10 : Climb on HDG098˚ at or above 1500FT, direct to OA021, turn left direct to AKANA at or above 11000FT, to SINFO.

RWY28 : Climb on HDG278˚ at or above 1600FT, direct to OA811, turn right direct to AKANA at or above 11000FT, to SINFO.

NOTE RWY10 : 5.0% climb gradient required up to 1800FT.
OBST ALT 1780FT located at 2.30NM 006˚ FM end of RWY10.
RWY28 : 3.8% climb gradient required up to 3700FT.
OBST ALT 3150FT located at 11.02NM 322˚ FM end of RWY28.

STAGE TRANSITION

From SINFO, to STAGE.

STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA RNAV SID and TRANSITION

SINFO TWO DEPARTURE

RWY10

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	–	–	098 (090.0)	-7.6	–	–	+1500	–	–	RNAV1
002	DF	OA021	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	AKANA	–	–	-7.6	–	L	+11000	–	–	RNAV1
004	TF	SINFO	–	358 (350.7)	-7.6	14.4	–	–	–	–	RNAV1

RWY28

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	–	–	278 (270.0)	-7.6	–	–	+1600	–	–	RNAV1
002	DF	OA811	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	AKANA	–	–	-7.6	–	R	+11000	–	–	RNAV1
004	TF	SINFO	–	358 (350.7)	-7.6	14.4	–	–	–	–	RNAV1

STAGE TRANSITION

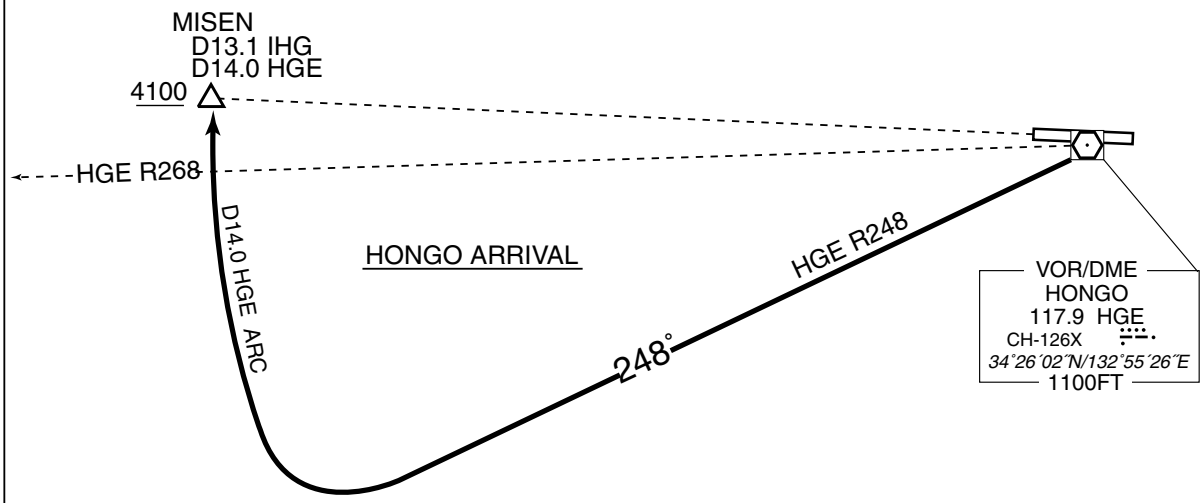
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SINFO	–	–	-7.6	–	–	–	–	–	RNAV1
002	TF	STAGE	–	358 (350.6)	-7.6	23.2	–	–	–	–	RNAV1

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA STAR

HONGO ARRIVAL

From over HGE VOR/DME, via HGE R248 to intercept and proceed via HGE 14.0DME clockwise ARC to MISEN.
Cross MISEN at or above 4100FT.

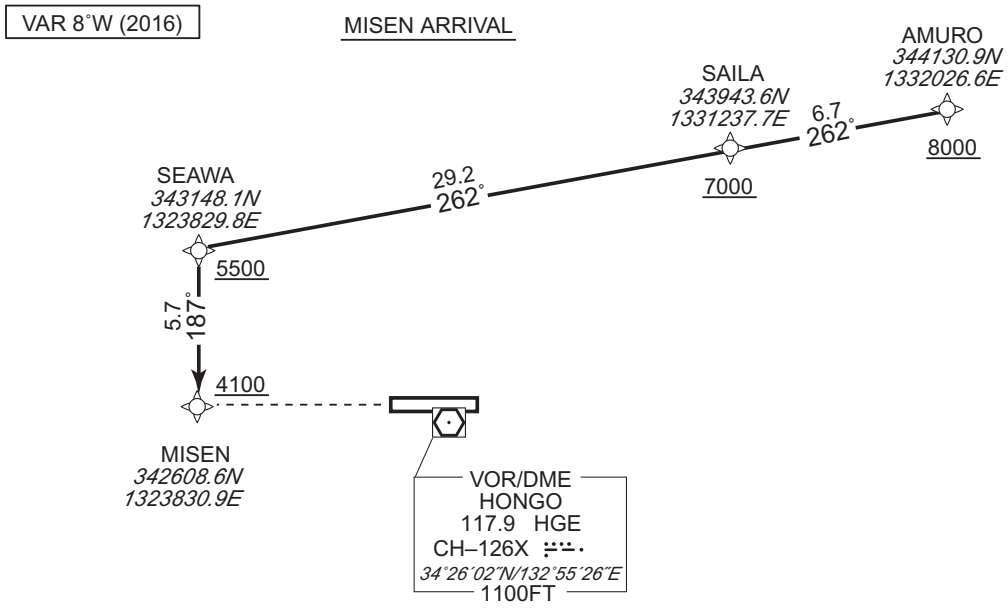


STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

MISEN ARRIVAL	RNAV1

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



MISEN ARRIVAL

From AMURO at or above 8000FT, to SAILA at or above 7000FT, to SEAWA at or above 5500FT, to MISEN at or above 4100FT.

Critical DME	–
DME GAP	–
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	AMURO	–	–	-7.6	–	–	+8000	–	–	RNAV1
002	TF	SAILA	–	262 (254.5)	-7.6	6.7	–	+7000	–	–	RNAV1
003	TF	SEAWA	–	262 (254.4)	-7.6	29.2	–	+5500	–	–	RNAV1
004	TF	MISEN	–	187 (179.8)	-7.6	5.7	–	+4100	–	–	RNAV1

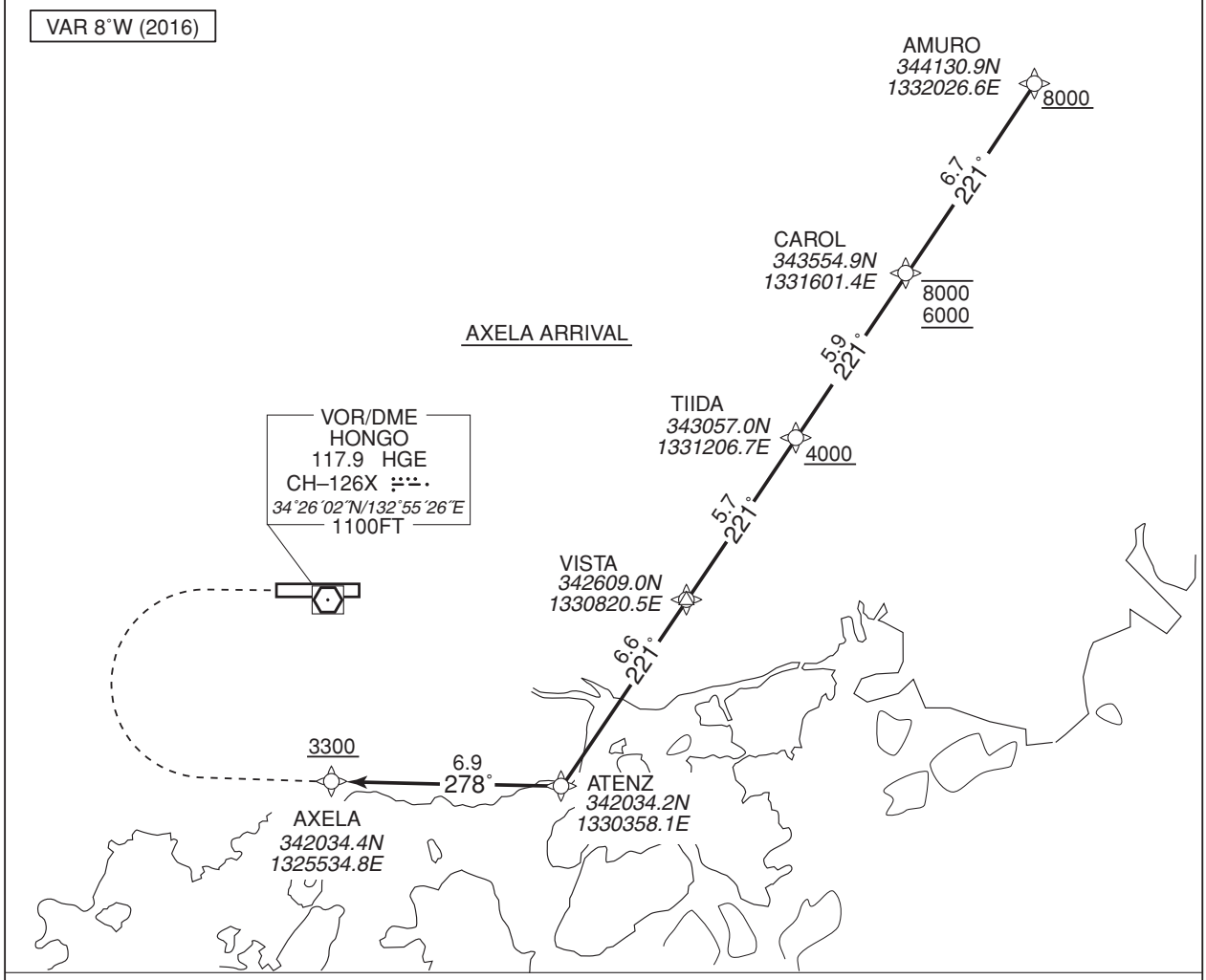
CHANGE : Critical DME deleted.

STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

AXELA ARRIVAL	RNAV1

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



AXELA ARRIVAL

From AMURO at or above 8000FT, to CAROL between 8000FT and 6000FT, to TIIDA at or above 4000FT, to VISTA, to ATENZ, to AXELA at or above 3300FT.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

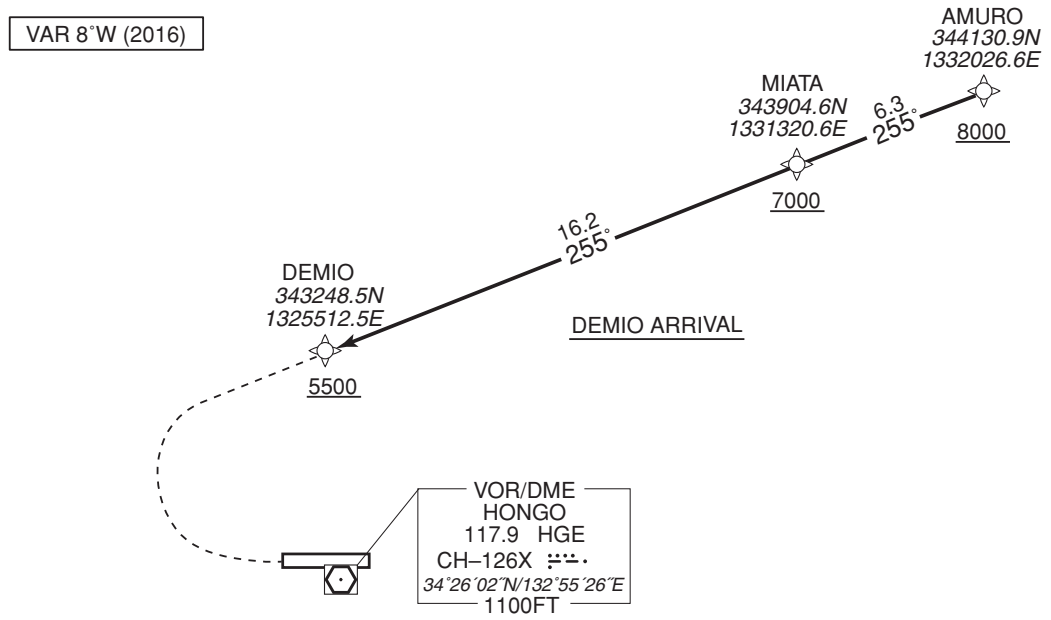
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	–	–	-7.6	–	–	+8000	–	–	RNAV1
002	TF	CAROL	–	221 (213.0)	-7.6	6.7	–	-8000 +6000	–	–	RNAV1
003	TF	TIIDA	–	221 (213.0)	-7.6	5.9	–	+4000	–	–	RNAV1
004	TF	VISTA	–	221 (212.9)	-7.6	5.7	–	–	–	–	RNAV1
005	TF	ATENZ	–	221 (212.9)	-7.6	6.6	–	–	–	–	RNAV1
006	TF	AXELA	–	278 (270.1)	-7.6	6.9	–	+3300	–	–	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY10

DEMIO ARRIVAL	RNAV1

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



DEMIO ARRIVAL

From AMURO at or above 8000FT, to MIATA at or above 7000FT, to DEMIO at or above 5500FT.

Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

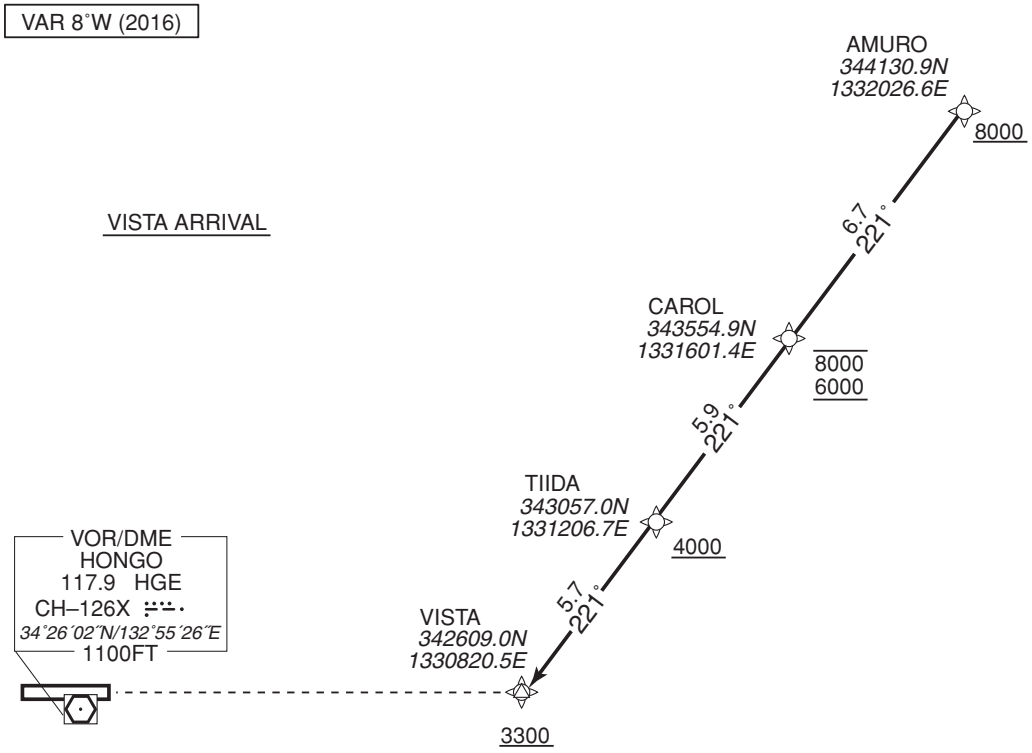
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course ˚M(˚T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	–	–	-7.6	–	–	+8000	–	–	RNAV1
002	TF	MIATA	–	255 (247.4)	-7.6	6.3	–	+7000	–	–	RNAV1
003	TF	DEMIO	–	255 (247.3)	-7.6	16.2	–	+5500	–	–	RNAV1

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA — RNAV STAR RWY28

VISTA ARRIVAL	RNAV1

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



VISTA ARRIVAL

From AMURO at or above 8000FT, to CAROL between 8000FT and 6000FT, to TIIDA at or above 4000FT, to VISTA at or above 3300FT.

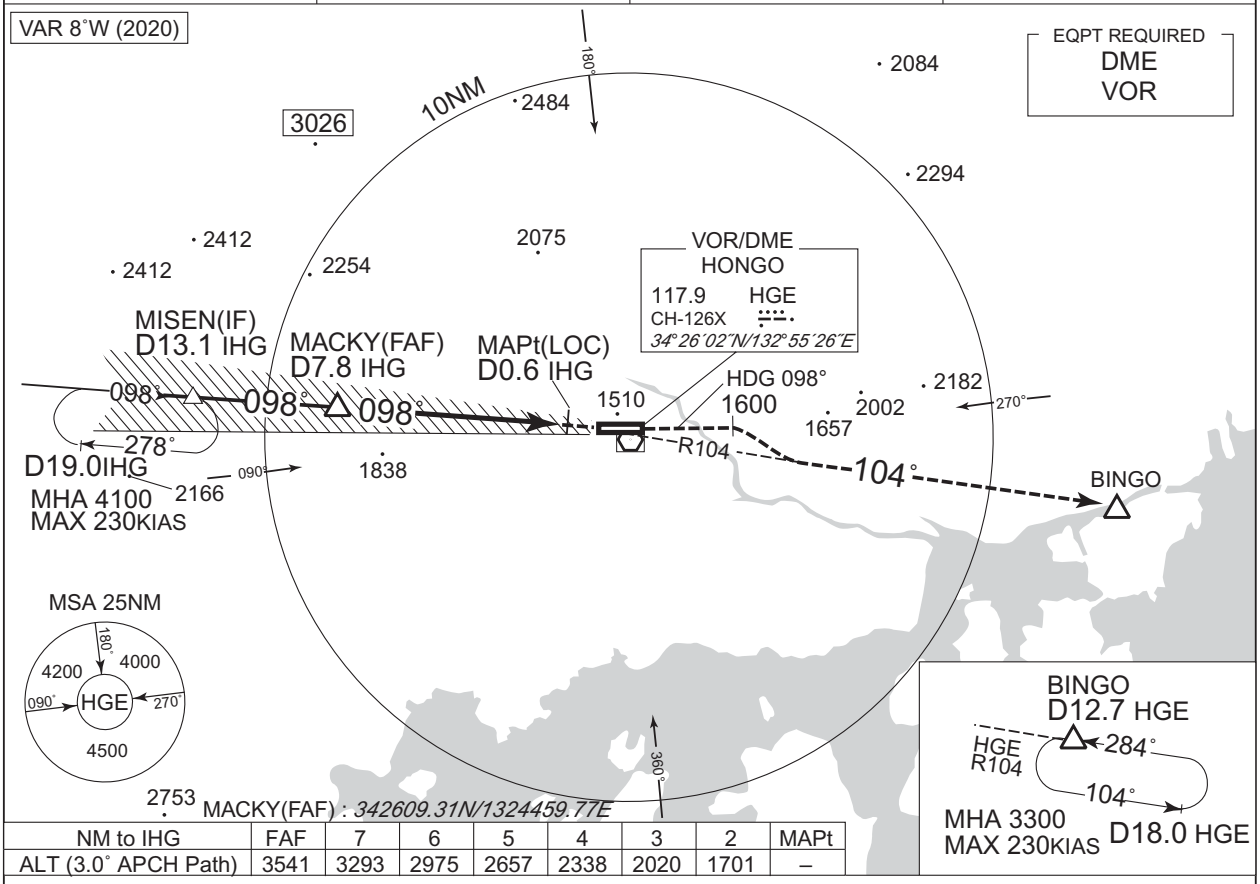
Critical DME	–
DME GAP	–
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

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	AMURO	–	–	-7.6	–	–	+8000	–	–	RNAV1
002	TF	CAROL	–	221 (213.0)	-7.6	6.7	–	-8000 +6000	–	–	RNAV1
003	TF	TIIDA	–	221 (213.0)	-7.6	5.9	–	+4000	–	–	RNAV1
004	TF	VISTA	–	221 (212.9)	-7.6	5.7	–	+3300	–	–	RNAV1

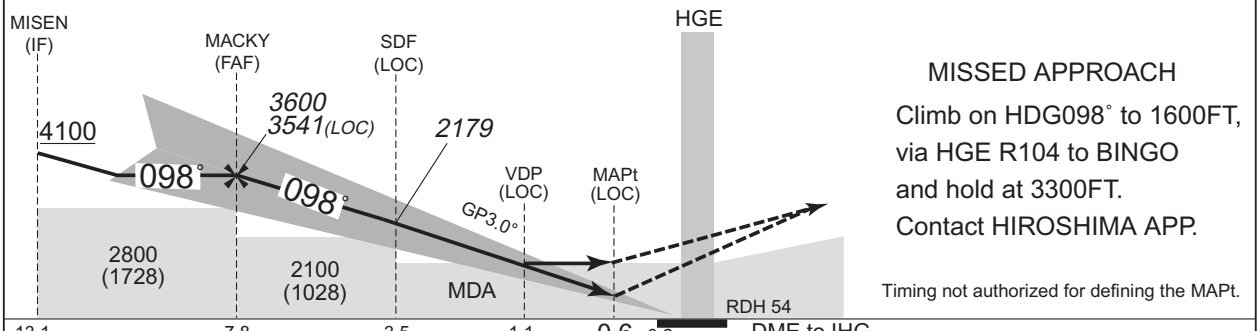
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — ILS or LOC RWY10 (CATⅢ)

HIROSHIMA APP	ILS-LOC	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9	108.7 IHG ILS–GP 330.5 ILS–DME CH–24X	118.6–126.2	ATIS 127.25



NM to IHG	FAF	7	6	5	4	3	2	MAPt
ALT (3.0° APCH Path)	3541	3293	2975	2657	2338	2020	1701	–



MISSED APPROACH
Climb on HDG098° to 1600FT,
via HGE R104 to BINGO
and hold at 3300FT.
Contact HIROSHIMA APP.

Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 1072 AD elev. 1086

CAT	CATⅢ	CAT Ⅱ			CAT Ⅰ		LOC		CIRCLING	
	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	100	Not applicable			1272 (200)	550	1410 (338)	900	1510 (424)	1600
B								1000	1540 (454)	
C										2400
D								1400	1640 (554)	3200

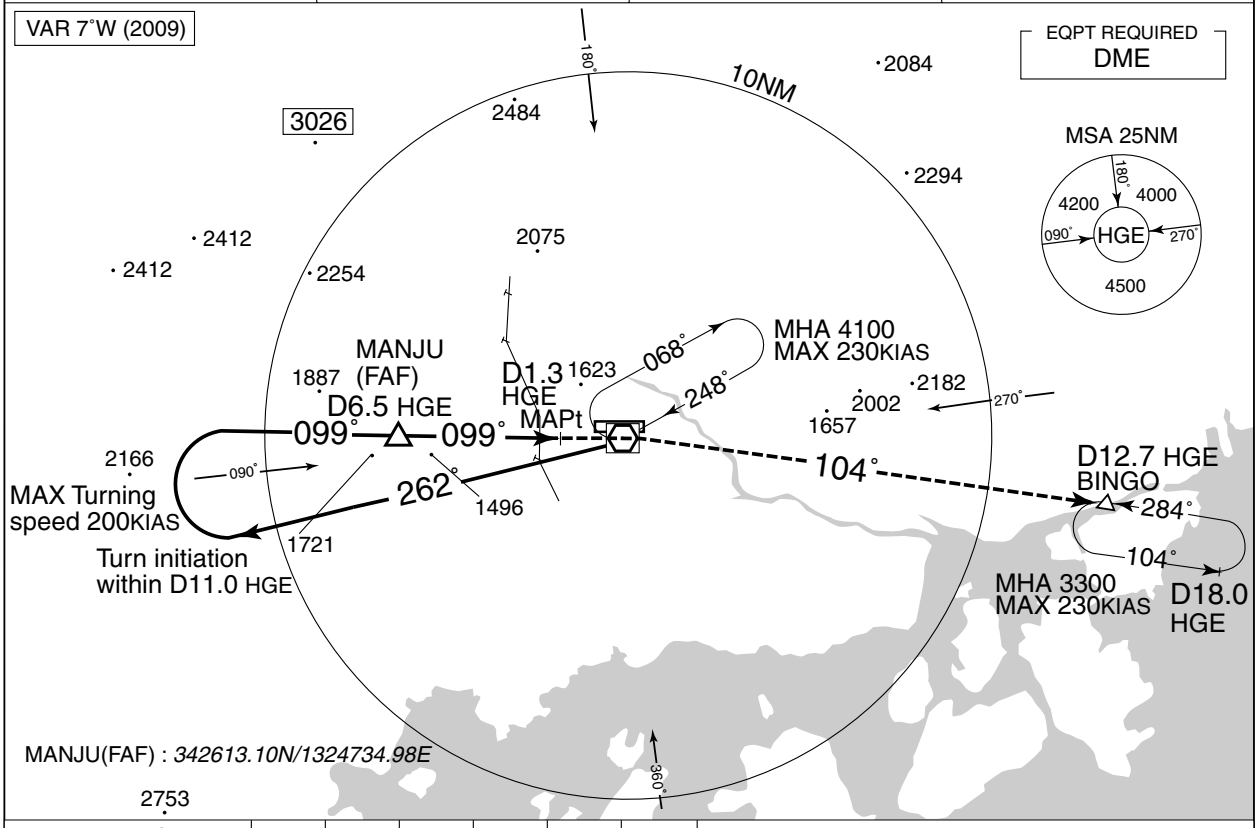
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to SOUTH side of RWY only
Values of RA may increase or decrease rapidly affected by terrain until IHG 0.3DME.

CHANGE: VAR. NM to THR(MISEN).

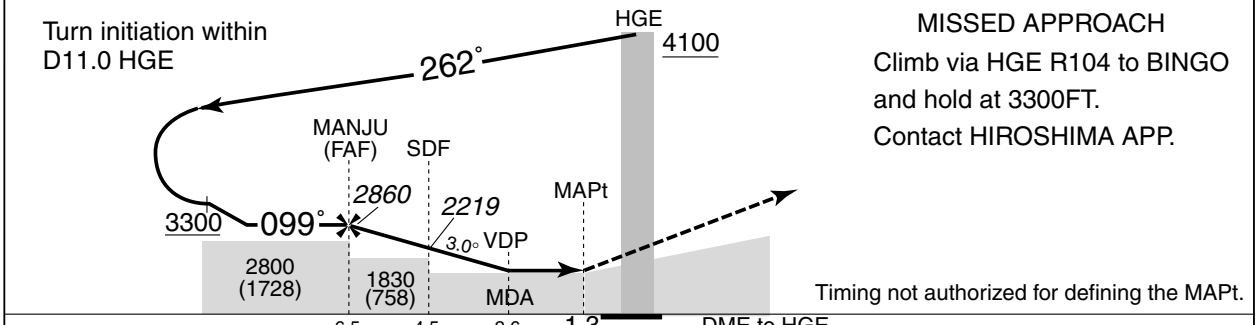
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA VOR RWY10

HIROSHIMA APP	HONGO VOR/DME 117.9 HGE CH–126X	HIROSHIMA TOWER	RADAR AVBL
124.05 – 119.9	*34˚26´02˝N/132˚55´26˝E*	118.6 - 126.2	ATIS 127.25



NM to HGE	FAF	6	5	4	3	MAPt
ALT (3.0˚ APCH Path)	2860	2701	2383	2064	1746	–



MISSED APPROACH
Climb via HGE R104 to BINGO
and hold at 3300FT.
Contact HIROSHIMA APP.

Timing not authorized for defining the MAPt.

MINIMA THR elev. 1072 AD elev. 1086

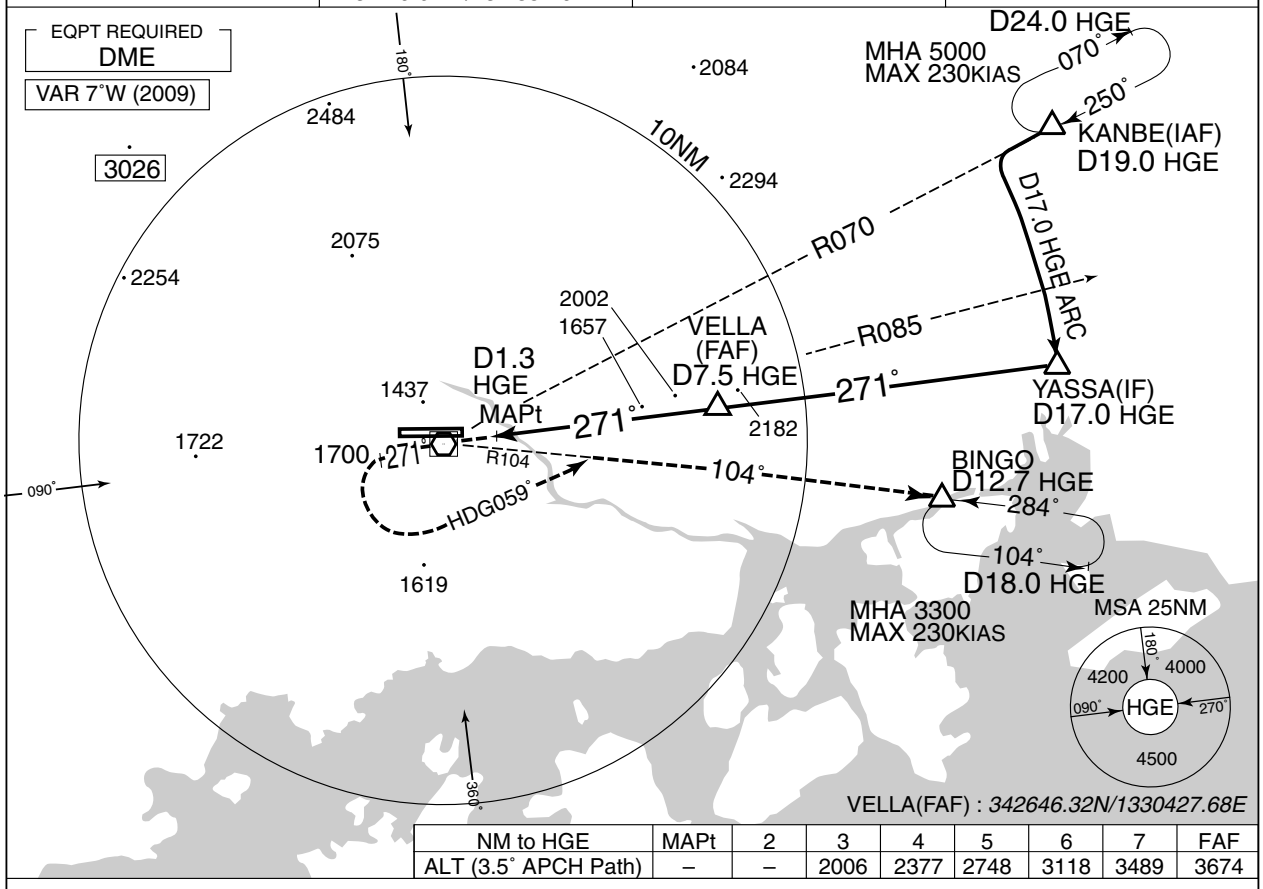
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1600 (528)	1000	1600 (514)	1600
B		1200		
C				2400
D		1600	1640 (554)	3200

Circling to SOUTH side of RWY only.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA VOR Z RWY28

HIROSHIMA APP	HONGO VOR/DME	HIROSHIMA TOWER	RADAR AVBL
124.05 – 119.9	117.9 HGE CH–126X *34˚26´02˝N/132˚55´26˝E*	118.6 - 126.2	ATIS 127.25

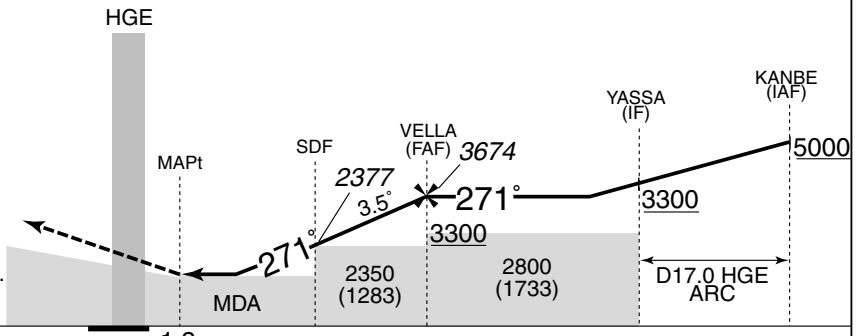


VELLA(FAF) : *342646.32N/1330427.68E*

NM to HGE	MAPt	2	3	4	5	6	7	FAF
ALT (3.5˚ APCH Path)	–	–	2006	2377	2748	3118	3489	3674

MISSED APPROACH
Climb to 1700FT on HDG271˚,
turn left climb to 3300FT via
HDG059˚ to intercept and
proceed via HGE R104
to BINGO and hold.
Contact HIROSHIMA APP.

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



DME to HGE	0	1.3	4.0	7.5	17.0	
NM to THR	0	0.8	3.4	6.9	16.4	

MINIMA THR elev. 1067 AD elev. 1086

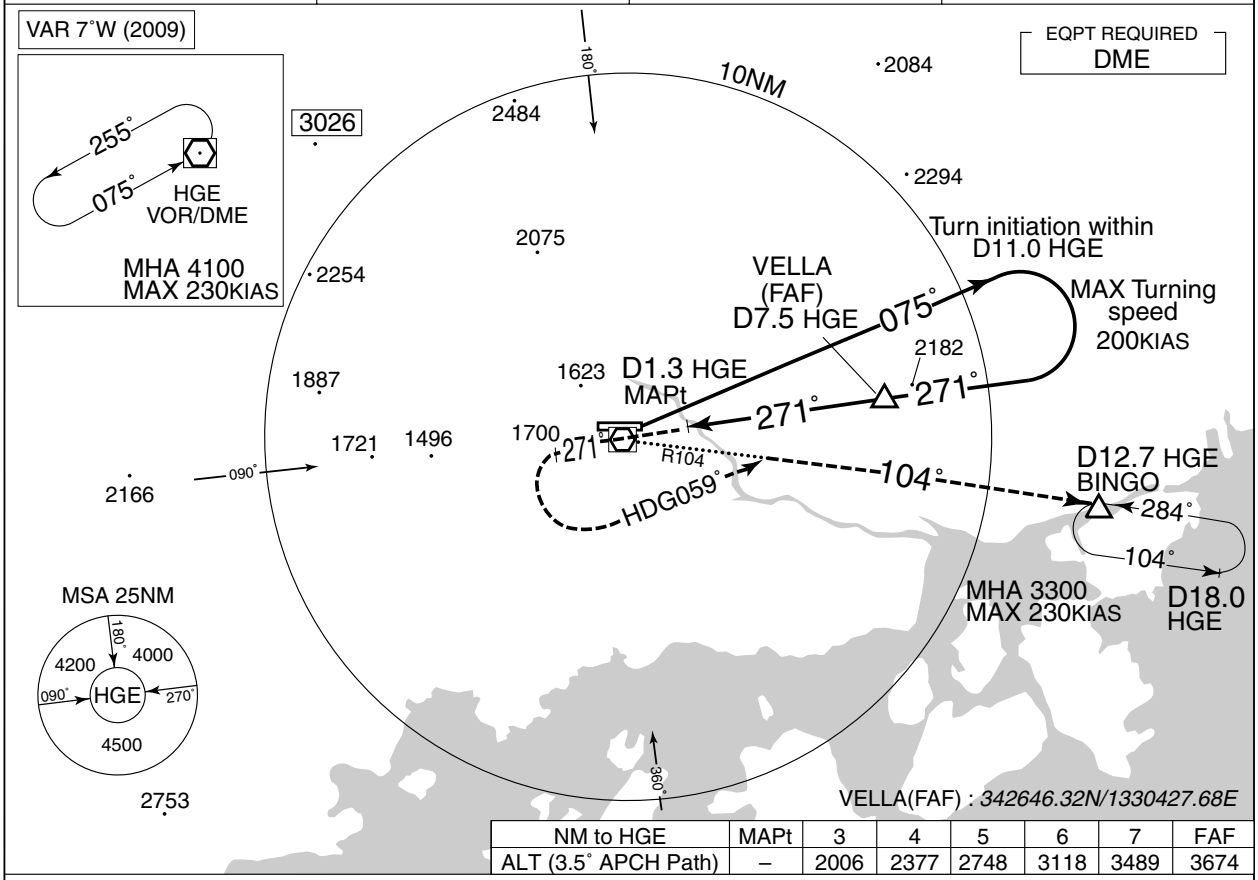
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1420 (353)	1200	1510 (424)	1600
B	1450 (383)	1300	1540 (454)	
C	1480 (413)	1400		2400
D	1500 (433)	1600	1640 (554)	3200

Circling to SOUTH side of RWY only
VDP not applicable.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA VOR Y RWY28

HIROSHIMA APP	HONGO VOR/DME	HIROSHIMA TOWER	RADAR AVBL
124.05 – 119.9	117.9 HGE CH–126X *34˚26´02˝N/132˚55´26˝E*	118.6 - 126.2	ATIS 127.25

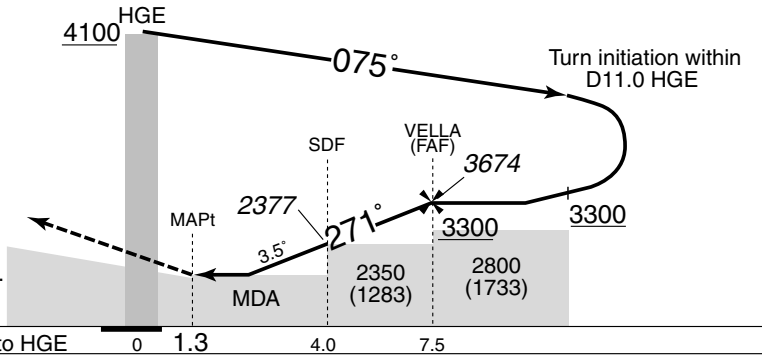


NM to HGE	MAPt	3	4	5	6	7	FAF
ALT (3.5˚ APCH Path)	–	2006	2377	2748	3118	3489	3674

MISSED APPROACH

Climb to 1700FT on HDG271˚,
turn left climb to 3300FT via
HDG059˚ to intercept and
proceed via HGE R104
to BINGO and hold.
Contact HIROSHIMA APP.

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



DME to HGE	0	1.3	4.0	7.5
NM to THR	0	0.8	3.4	6.9

MINIMA THR elev. 1067 AD elev. 1086

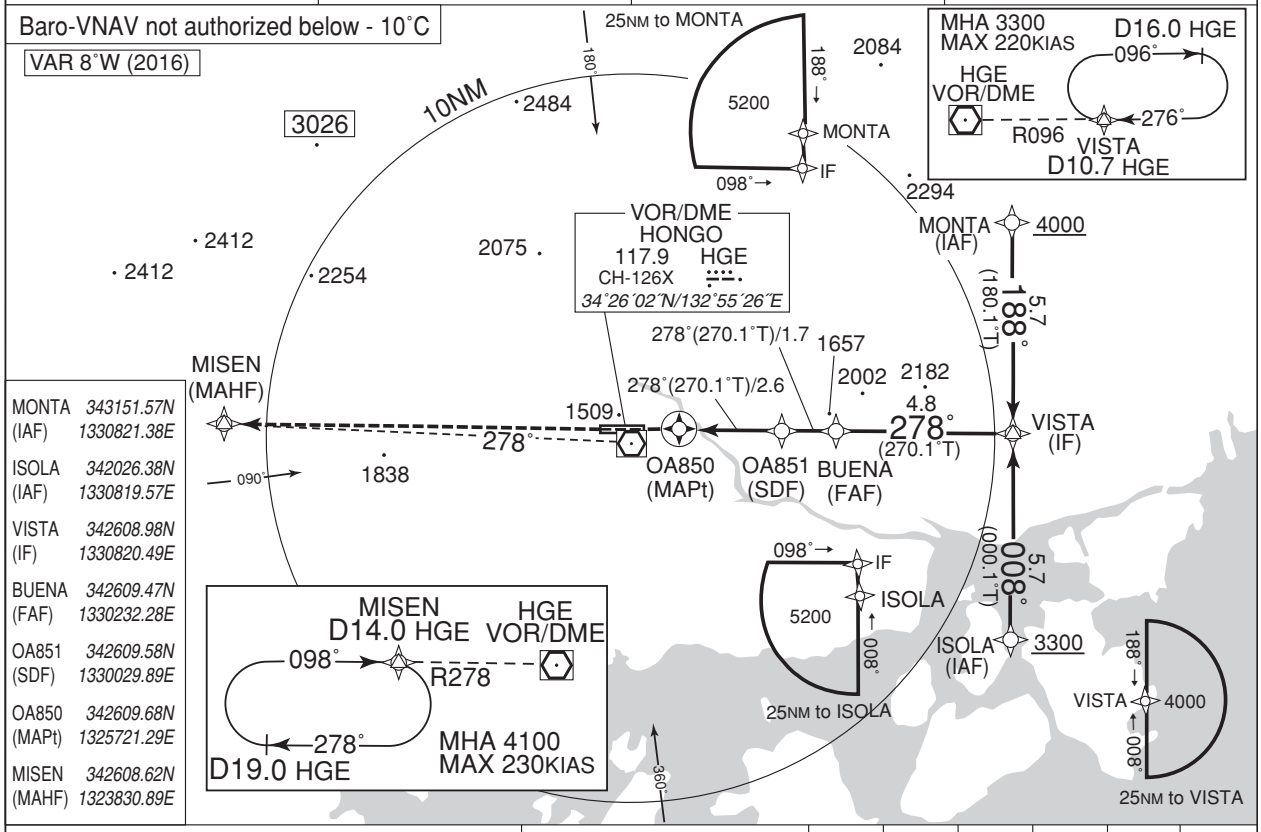
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1420 (353)	1200	1510 (424)	1600
B	1450 (383)	1300	1540 (454)	
C	1480 (413)	1400		2400
D	1500 (433)	1600	1640 (554)	3200

Circling to SOUTH side of RWY only.
VDP not applicable.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — RNAV(GNSS) RWY28

HIROSHIMA APP	1. DME/DME not authorized. 2. RADAR service required. 3. GNSS required.	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9		118.6–126.2	ATIS 127.25

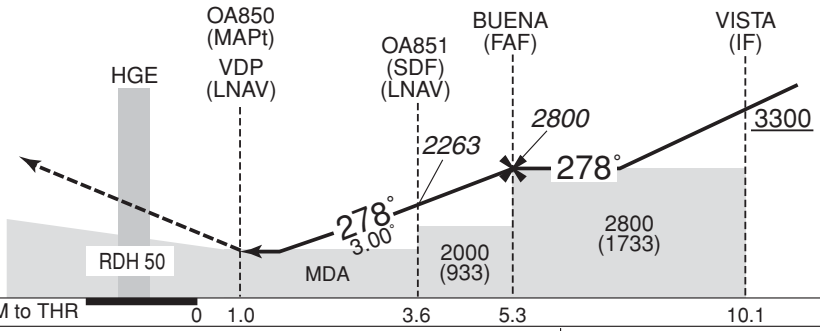


	NM to Next Fix	MAPt	1	2	3	4	FAF
	ALT (3.0˚ APCH Path)	–	1753	2072	2390	2709	2800

MISSED APPROACH

Direct to MISEN and hold at 4100FT.
Contact HIROSHIMA APP.

(for using VOR/DME)
Climb via HGE R278 to MISEN and hold at 4100FT.
Contact HIROSHIMA APP.



Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 1067 AD elev. 1086

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	1440 (373)	1200	1440 (373)	1200	1510 (424)	1600
B		1300		1300	1540 (454)	
C		1400		1400		2400
D		1600		1600	1640 (554)	3200

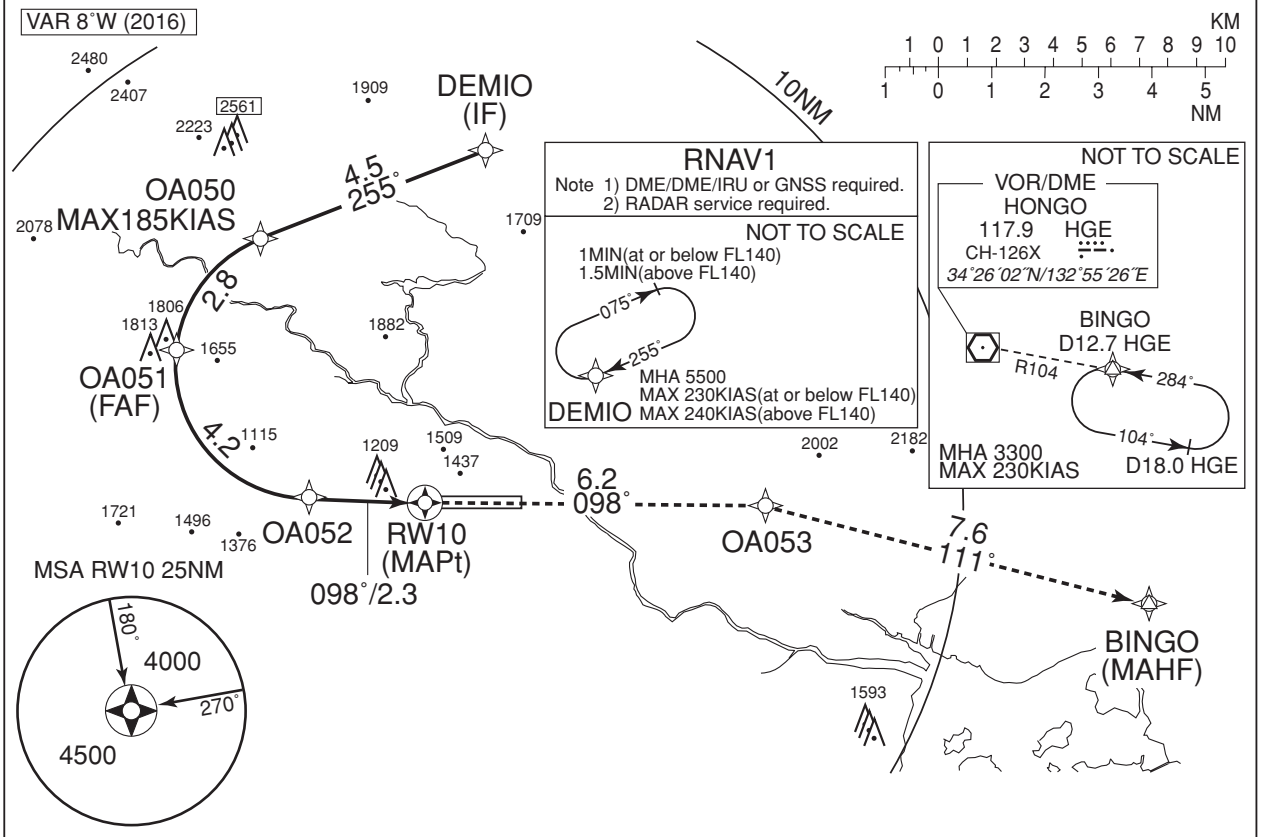
Circling to SOUTH side of RWY only.
MINIMA with Missed APCH climb gradient of 2.5% are not established.

INSTRUMENT APPROACH CHART

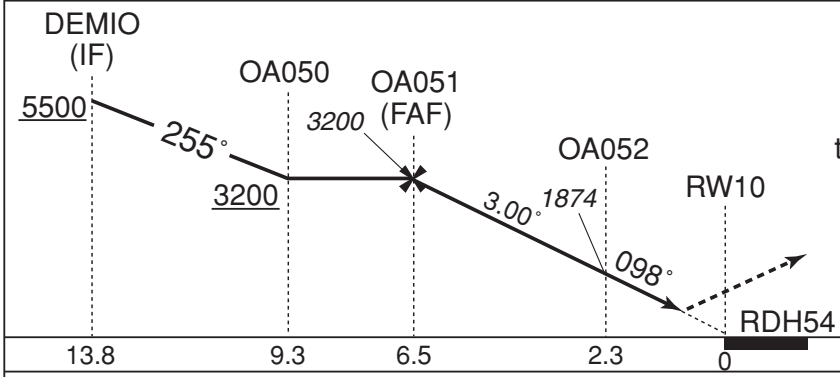
RJOA / HIROSHIMA RNAV(RNP) Z RWY10

HIROSHIMA APP	GNSS and RF required.	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9		118.6–126.2	ATIS 127.25

For uncompensated Baro-VNAV systems, procedure not authorized below -10˚C / above 45˚C



OA051(FAF) : *342852.58N/1324816.81E*



MISSED APPROACH

Climb to 3300FT, to OA053,
to BINGO and hold.
Contact HIROSHIMA APP.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 1072		AD elev. 1086	
CAT	RNP 0.10		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	–	–	–	–
B				
C	1515(443)	1000	1598(526)	1200
D		1400		1600

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

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA RNAV(RNP) Z RWY10

RNAV(RNP) Z RWY10

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	DEMIO	–	–	-7.6	–	–	+5500	–	–	–
002	TF	OA050	–	255 (247.1)	-7.6	4.5	–	+3200	-185	–	1.0
003	RF Center: OARF1 r=2.54NM	OA051	–	–	-7.6	2.8	L	3200	–	–	1.0
004	RF Center: OARF1 r=2.54NM	OA052	–	–	-7.6	4.2	L	1874	–	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-7.6	2.3	–	1126	–	-3.00/54	0.10 0.30
006	TF	OA053	–	098 (090.0)	-7.6	6.2	–	–	–	–	1.0
007	TF	BINGO	–	111 (103.2)	-7.6	7.6	–	3300	–	–	1.0

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	DEMIO	255 (247.1)	-7.6	1.0(–14000) 1.5(+14001)	R	5500	–	–230(–14000) –240(+14001)	RNAV1

Waypoint Coordinates

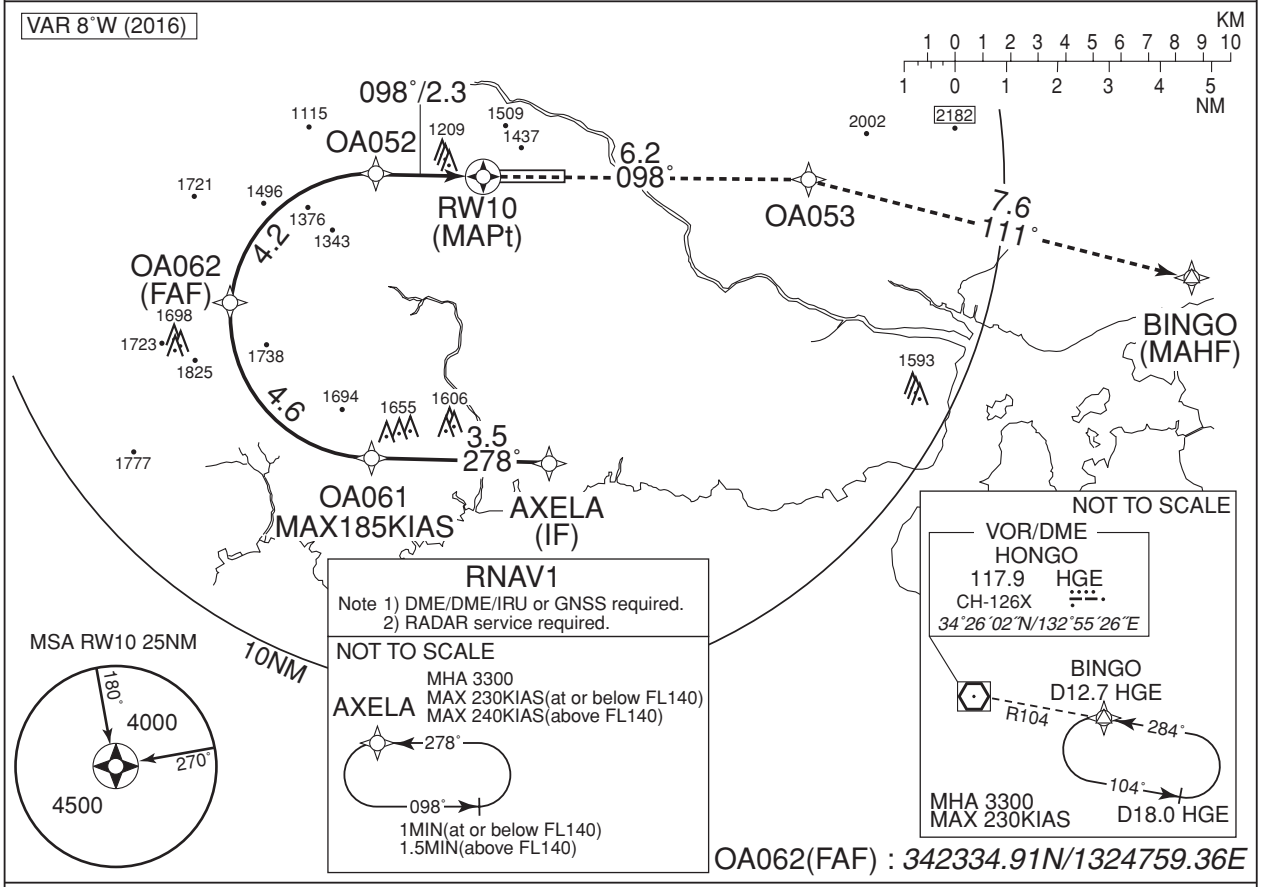
Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
DEMIO	*343248.47N/1325512.50E*	OARF1	*342842.28N/1325120.72E*
OA050	*343102.99N/1325009.23E*		
OA051	*342852.58N/1324816.81E*		
OA052	*342609.63N/1325120.84E*		
RW10	*342609.69N/1325411.25E*		
OA053	*342609.67N/1330143.51E*		
BINGO	*342425.72N/1331040.68E*		

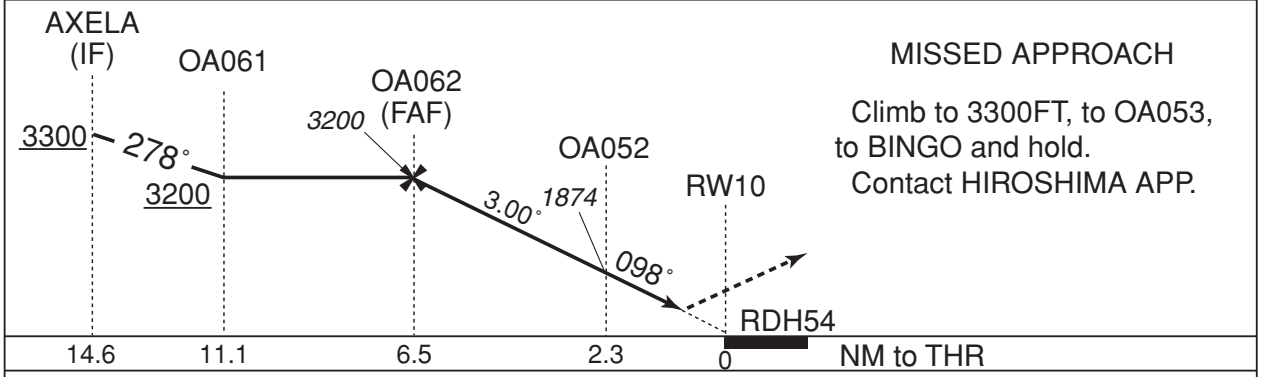
INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA — RNAV(RNP) Y RWY10

HIROSHIMA APP	GNSS and RF required.	HIROSHIMA TOWER	RADAR AVBL
124.05–119.9		118.6–126.2	ATIS 127.25

For uncompensated Baro-VNAV systems, procedure not authorized below -10˚C / above 45˚C





Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 1072		AD elev. 1086	
CAT	RNP 0.10		RNP 0.30	
	DA(H)	RVR/CMV	DA(H)	RVR/CMV
A	–	–	–	–
B				
C	1515(443)	1000	1598(526)	1200
D		1400		1600

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

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA RNAV(RNP) Y RWY10

RNAV(RNP) Y RWY10

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	AXELA	–	–	-7.6	–	–	+3300	–	–	1.0
002	TF	OA061	–	278 (270.0)	-7.6	3.5	–	+3200	-185	–	1.0
003	RF Center: OARF2 r=2.79NM	OA062	–	–	-7.6	4.6	R	3200	–	–	1.0
004	RF Center: OARF2 r=2.79NM	OA052	–	–	-7.6	4.2	R	1874	–	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-7.6	2.3	–	1126	–	-3.00/54	0.10 0.30
006	TF	OA053	–	098 (090.0)	-7.6	6.2	–	–	–	–	1.0
007	TF	BINGO	–	111 (103.2)	-7.6	7.6	–	3300	–	–	1.0

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	AXELA	278 (270.0)	-7.6	1.0(–14000) 1.5(+14001)	L	3300	–	–230(–14000) –240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
AXELA	*342034.40N/1325534.80E*	OARF2	*342321.96N/1325120.96E*
OA061	*342034.29N/1325121.21E*		
OA062	*342334.91N/1324759.36E*		
OA052	*342609.63N/1325120.84E*		
RW10	*342609.69N/1325411.25E*		
OA053	*342609.67N/1330143.51E*		
BINGO	*342425.72N/1331040.68E*		

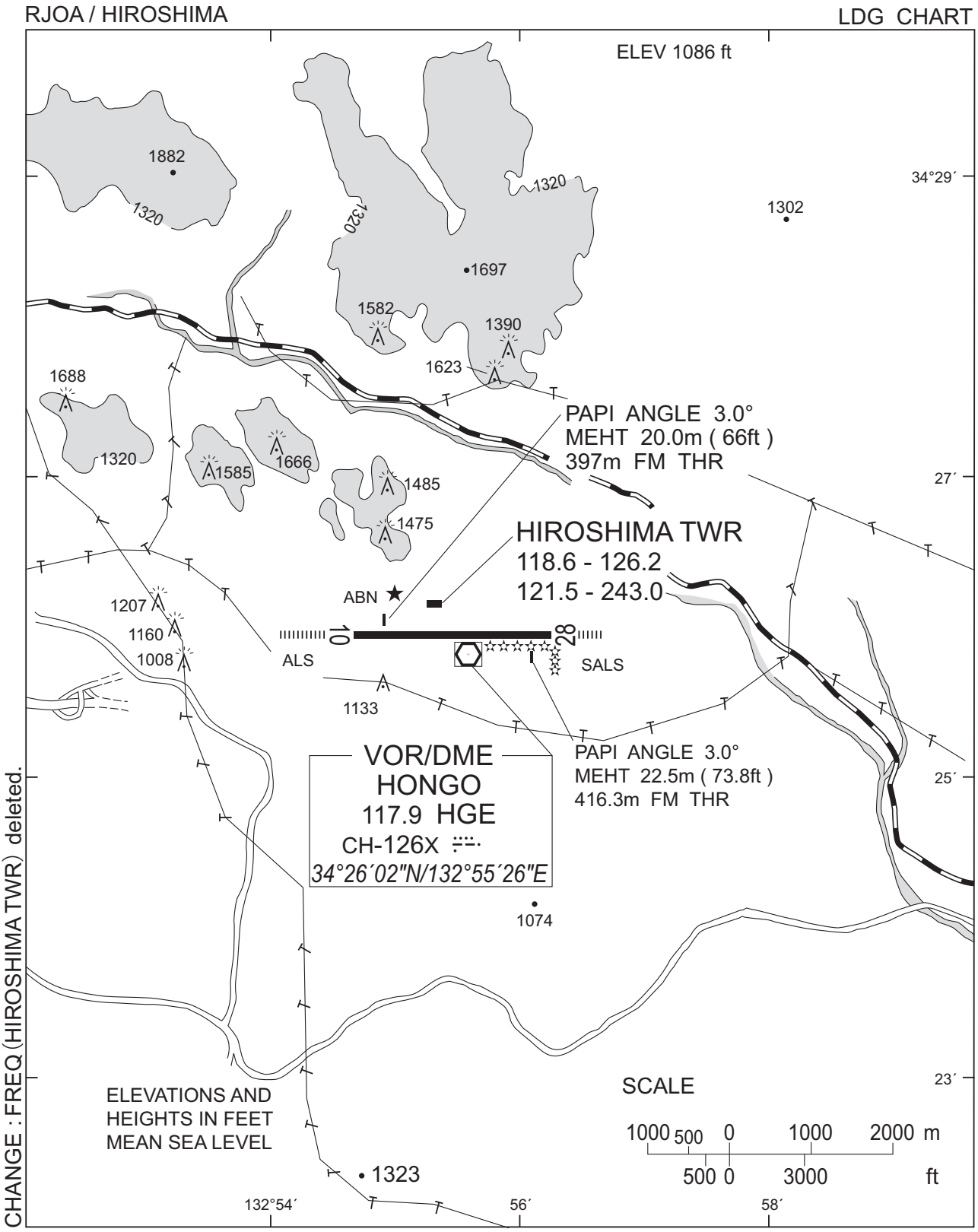
RJOA / HIROSHIMA

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).

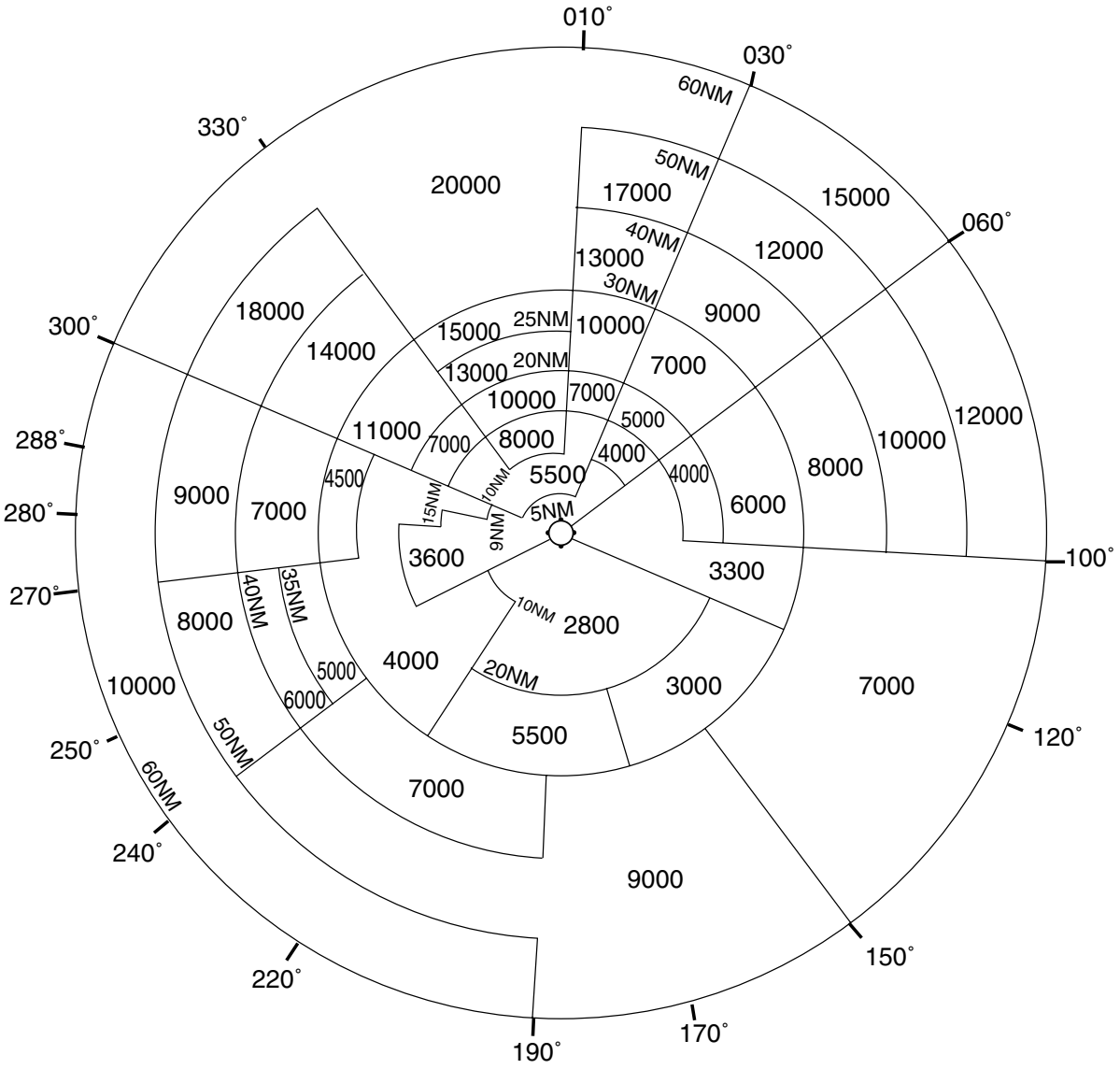
CHANGE : Map updated. BRG/DIST from ARP.

Call sign	BRG / DIST from ARP	Remarks
白竜 Hakuryu	345°T / 4.3NM	湖 Lake
小佐木 Kosagi	115°T / 10.1NM	小佐木島 Kosagi - Island
竹原 Takehara	184°T / 5.8NM	竹原駅 Railway Station
三永サウス Minaga South	251°T / 8.4NM	東広島駅 Railway Station
新庄 Shinjo	209°T / 2.9NM	新庄交差点 Shinjo Intersection


RJOA / HIROSHIMA
LDG CHART
ELEV 1086 ft
1882
1320
1320
1320
1302
34°29′
•1697
1582
1390
1623
1688
1320
1585
1666
1485
1475
PAPI ANGLE 3.0°
MEHT 20.0m (66ft)
397m FM THR
27′
HIROSHIMA TWR
118.6 - 126.2
121.5 - 243.0
ABN
1207
1160
1008
10
28
ALS
SALS
1133
VOR/DME
HONGO
117.9 HGE
CH-126X
34°26′02″N/132°55′26″E
PAPI ANGLE 3.0°
MEHT 22.5m (73.8ft)
416.3m FM THR
25′
1074
CHANGE : FREQ (HIROSHIMA TWR) deleted.
SCALE
1000 500 0 1000 2000 m
500 0 3000 ft
ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL
23′
• 1323
132°54′
56′
58′

RJOA / HIROSHIMA Minimum Vectoring Altitude CHART

VAR 7˚W (2009)



CENTER : *342602N/1325458E* (RADAR SITE)