

RJOA / HIROSHIMA

AD CHART

CHANGE : CEILOMETER, WIND SPEED METER added.

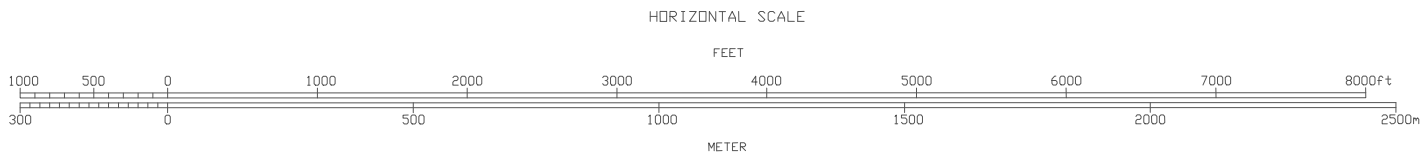
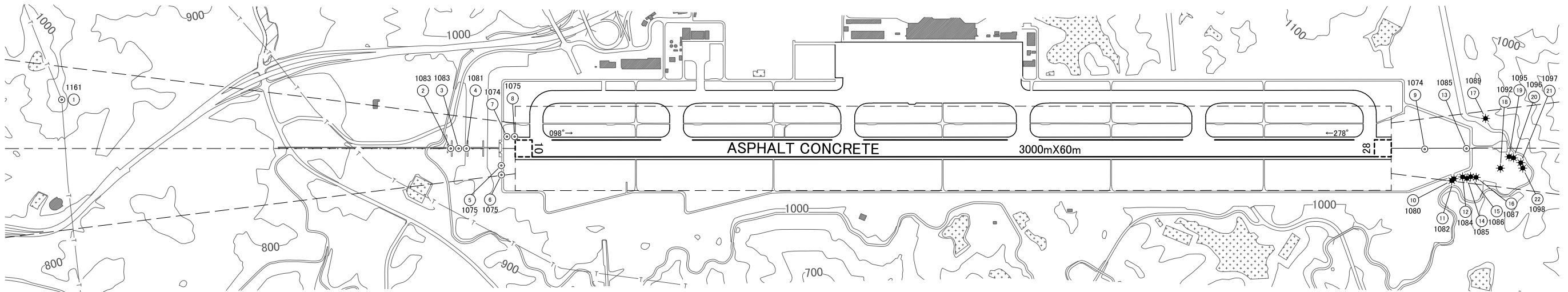
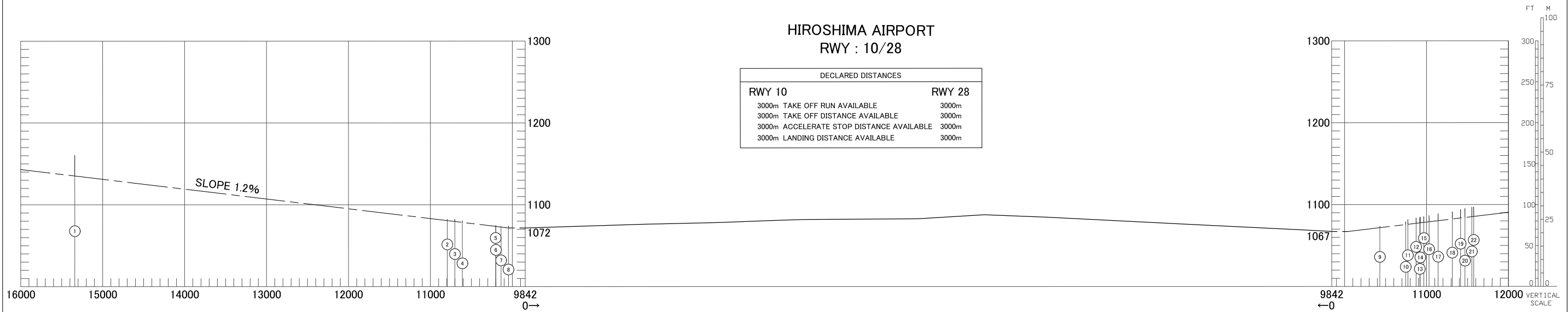














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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

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



LEGEND		AMENDMENT RECORD		
		Nr	DATE	ENTERED BY
	IDENTIFICATION NUMBER			
	POLE, TOWER, SPIRE, ANTENNA, ETC			
	OBSTRUCTION LIGHT			
	BUILDING OR LARGE STRUCTURE			
	RAILROAD  TRIANGULATION POINT			
	TRANSMISSION LINE OR OVERHEAD CABLE			
	LEVEE			
	TREE			
	LAKE			
	RIVER			
	CONTOURS(ft)			

AERODROME OBSTACLE CHART-ICAO
TYPE B (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME ELEVATION 1086ft ARP



LEGEND	AMENDMENT RECORD		
	NO	DATE	ENTERED BY
✦ AERODROME REFERENCE POINT 54°26'10"N 132°55'10"E			
⊙ POLE, TOWER, SPIRE, ANTENNA, ETC			
★ AERONAUTICAL GROUND LIGHT			
✧ OBSTRUCTION LIGHT			
■ BUILDING OR LARGE STRUCTURE			
—+—+— TERRAIN PENETRATING OBSTACLE PLANE			
—T—T— TRANSMISSION LINE OR OVERHEAD CABLE			
— LEVEE			
✧ TREE			
⊙ LAKE			
— RIVER			
— CONTOURS(11)			

CHANGE : VAR.

PRECISION APPROACH TERRAIN CHART-ICAO

PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

SID

HONGO REVERSAL FOUR DEPARTURE

RWY 10 : Climb RWY HDG to HGE 4.6DME(4.0NM FM DER), turn left....,
RWY 28 : Climb on HDG 271° 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 088°/5.7NM FM DER.
RWY28 : 3.8% climb gradient required up to 1600FT.
OBST ALT 2559FT located at 338°/7.7NM FM DER.



CHANGE : PROC renamed. PROC course. Note RWY10(OBST). Note RWY28(Climb gradient, OBST).

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

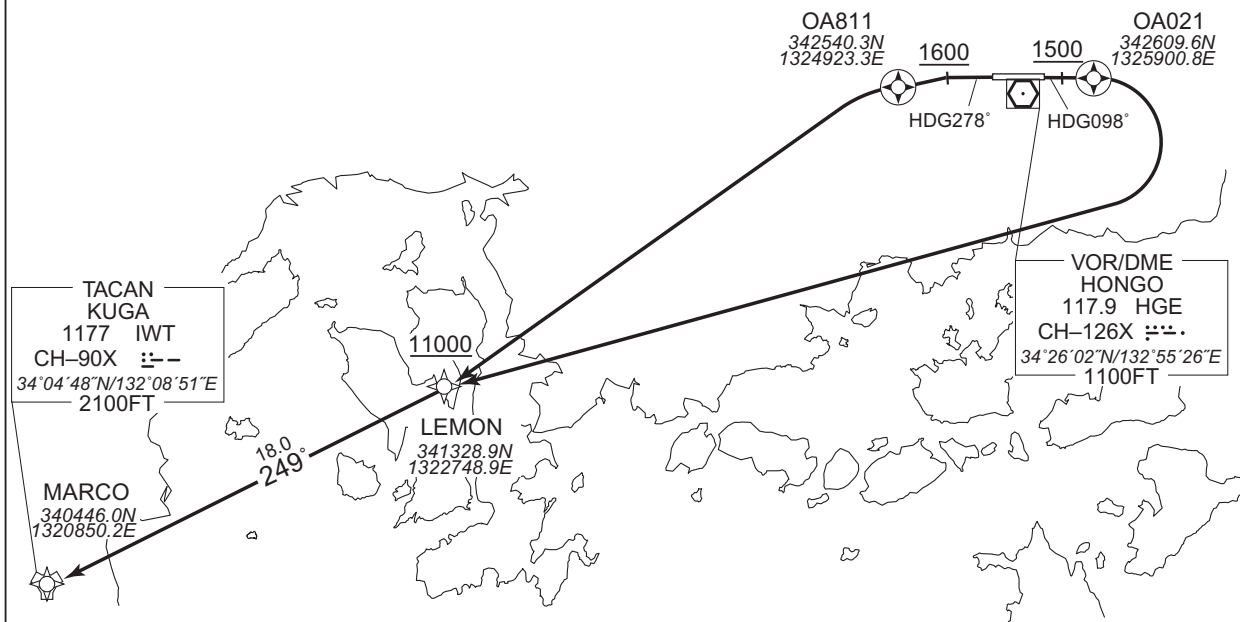
RNAV SID

MARCO TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W



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.

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)	-8.1	—	—	+1500	—	—	Basic RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	LEMON	—	—	-8.1	—	R	+11000	—	—	Basic RNP1
004	TF	MARCO	—	249 (241.1)	-8.1	18.0	—	—	—	—	Basic RNP1

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)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	LEMON	—	—	-8.1	—	L	+11000	—	—	Basic RNP1
004	TF	MARCO	—	249 (241.1)	-8.1	18.0	—	—	—	—	Basic RNP1

CHANGE : Description of VAR.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

KIJYY 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)	-8.1	—	—	+1500	—	—	Basic RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	TOJYO	—	—	-8.1	—	L	+12000	—	—	Basic RNP1
004	TF	KIJYY	—	076 (067.9)	-8.1	43.4	—	—	—	—	Basic RNP1

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)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	TOJYO	—	—	-8.1	—	R	+12000	—	—	Basic RNP1
004	TF	KIJYY	—	076 (067.9)	-8.1	43.4	—	—	—	—	Basic RNP1

TOZAN TRANSITION

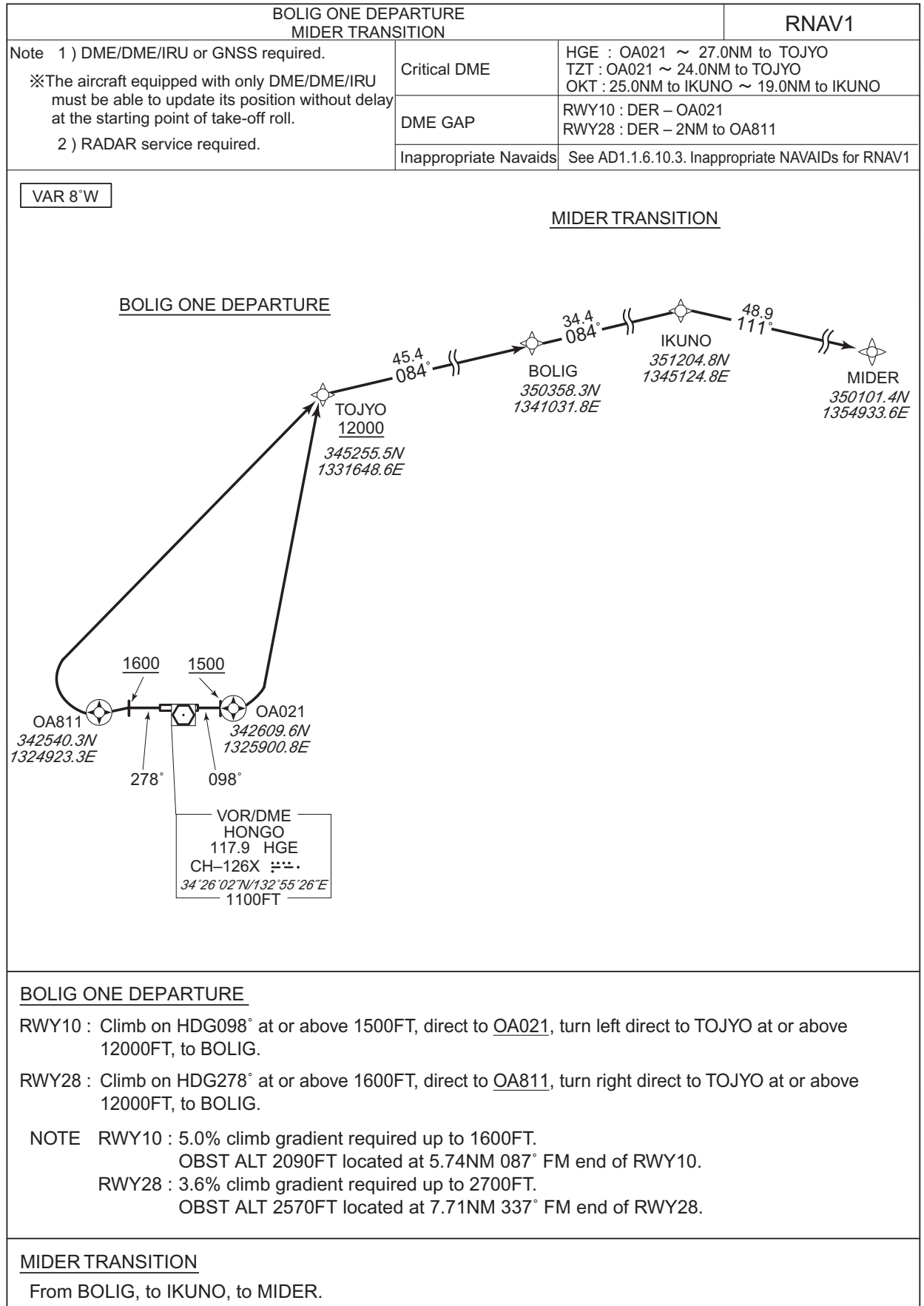
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	KIJYY	—	—	-8.1	—	—	—	—	—	Basic RNP1
002	TF	TOZAN	—	077 (069.0)	-8.1	20.3	—	—	—	—	Basic RNP1
003	TF	YME	—	076 (068.3)	-8.1	34.3	—	—	—	—	Basic RNP1

CHANGE : PROC renamed(KIJYY THREE DEPARTURE). VAR. Navigation specification.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION



CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

BOLIG 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)	-8.2	—	—	+1500	—	—	RNAV1
002	DF	OA021	Y	—	-8.2	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-8.2	—	L	+12000	—	—	RNAV1
004	TF	BOLIG	—	084 (075.7)	-8.2	45.4	—	—	—	—	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)	-8.2	—	—	+1600	—	—	RNAV1
002	DF	OA811	Y	—	-8.2	—	—	—	—	—	RNAV1
003	DF	TOJYO	—	—	-8.2	—	R	+12000	—	—	RNAV1
004	TF	BOLIG	—	084 (075.7)	-8.2	45.4	—	—	—	—	RNAV1

MIDER 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	BOLIG	—	—	-8.2	—	—	—	—	—	RNAV1
002	TF	IKUNO	—	084 (076.2)	-8.2	34.4	—	—	—	—	RNAV1
003	TF	MIDER	—	111 (102.8)	-8.2	48.9	—	—	—	—	RNAV1

CHANGE : New PROC.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

SINFO 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)	-8.1	—	—	+1500	—	—	Basic RNP1
002	DF	OA021	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	AKANA	—	—	-8.1	—	L	+11000	—	—	Basic RNP1
004	TF	SINFO	—	359 (350.7)	-8.1	14.4	—	—	—	—	Basic RNP1

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)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	OA811	Y	—	-8.1	—	—	—	—	—	Basic RNP1
003	DF	AKANA	—	—	-8.1	—	R	+11000	—	—	Basic RNP1
004	TF	SINFO	—	359 (350.7)	-8.1	14.4	—	—	—	—	Basic RNP1

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	—	—	-8.1	—	—	—	—	—	Basic RNP1
002	TF	STAGE	—	359 (350.6)	-8.1	23.2	—	—	—	—	Basic RNP1

CHANGE : PROC renamed(SINFO THREE DEPARTURE). VAR: Course(FM AKANA TO STAGE). Navigation specification.

RJOA / HIROSHIMA

STAR

From over HGE VOR/DME, via HGE R249 to intercept and proceed via HGE 14.0DME clockwise ARC to MISEN.
Cross MISEN at or above 4100FT.



CHANGE : Course FM HGE to MISEN.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10

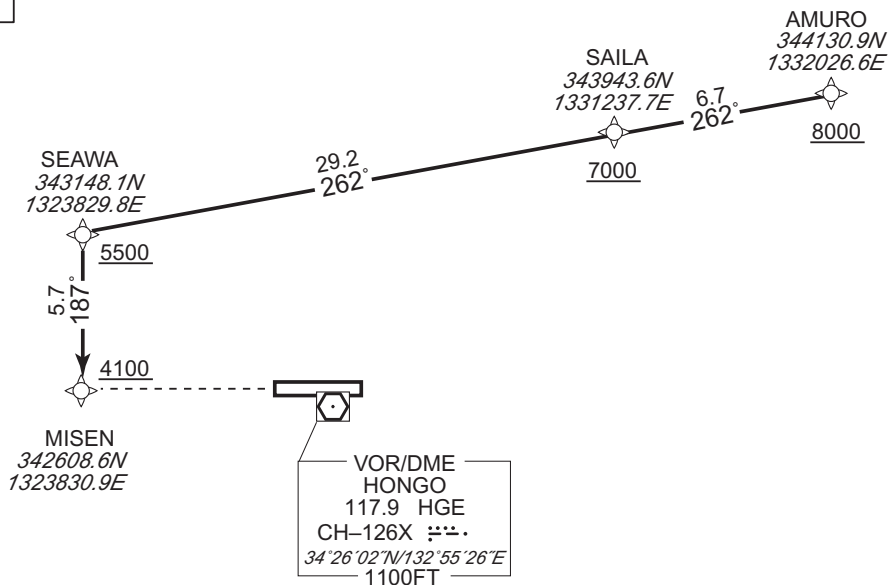
MISEN ARRIVAL

RNAV1

Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8°W



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.

CHANGE : Description of VAR.

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

STANDARD ARRIVAL CHART-INSTRUMENT

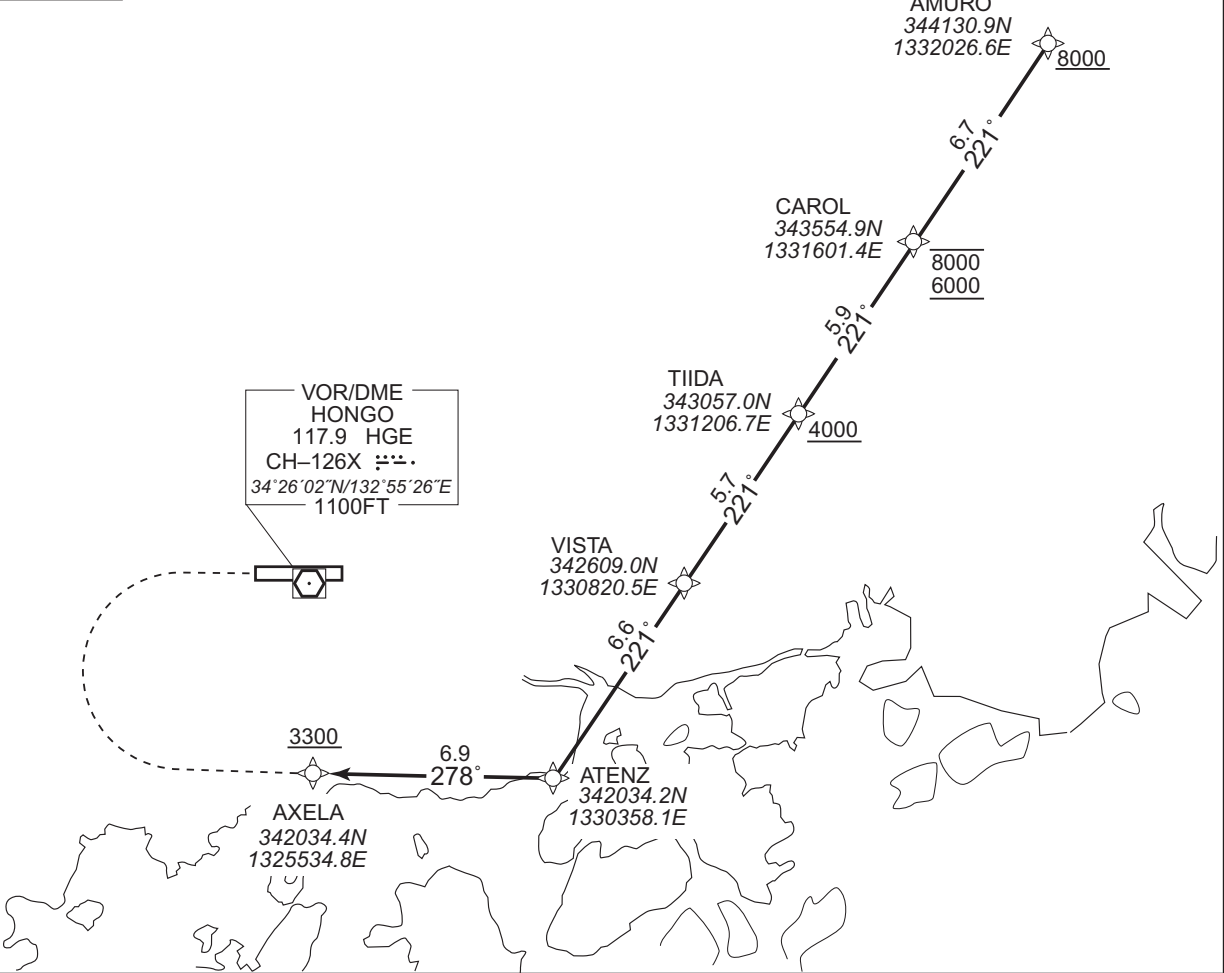
RJOA / HIROSHIMA

RNAV STAR RWY10

AXELA ARRIVAL	Basic RNP1
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Note GNSS required.

VAR 8°W



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.

CHANGE : Description of VAR.

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	—	—	-8.1	—	—	+8000	—	—	Basic RNP1
002	TF	CAROL	—	221 (213.0)	-8.1	6.7	—	-8000 +6000	—	—	Basic RNP1
003	TF	TIIDA	—	221 (213.0)	-8.1	5.9	—	+4000	—	—	Basic RNP1
004	TF	VISTA	—	221 (212.9)	-8.1	5.7	—	—	—	—	Basic RNP1
005	TF	ATENZ	—	221 (212.9)	-8.1	6.6	—	—	—	—	Basic RNP1
006	TF	AXELA	—	278 (270.1)	-8.1	6.9	—	+3300	—	—	Basic RNP1

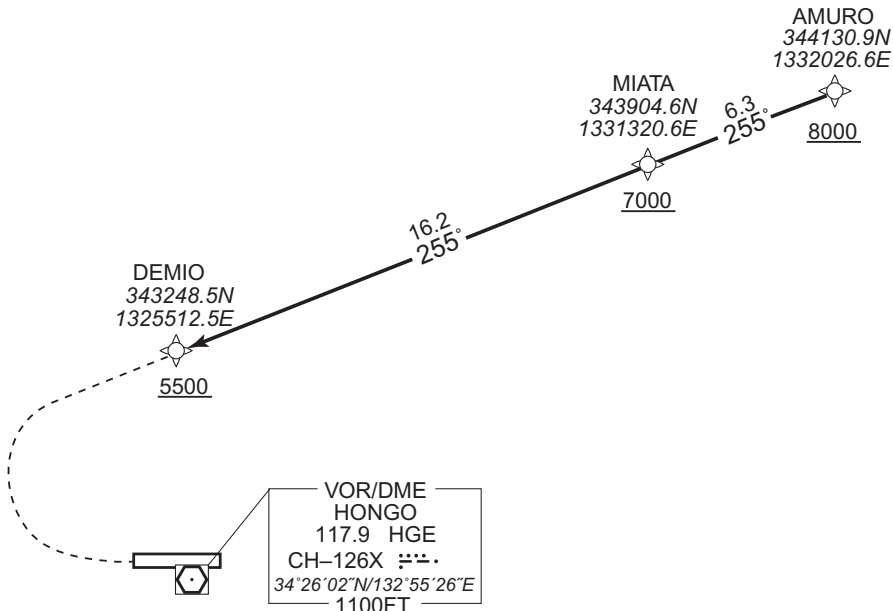
STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMARNAV STAR RWY10

DEMIO ARRIVAL	Basic RNP1
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Note GNSS required.

VAR 8°W



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

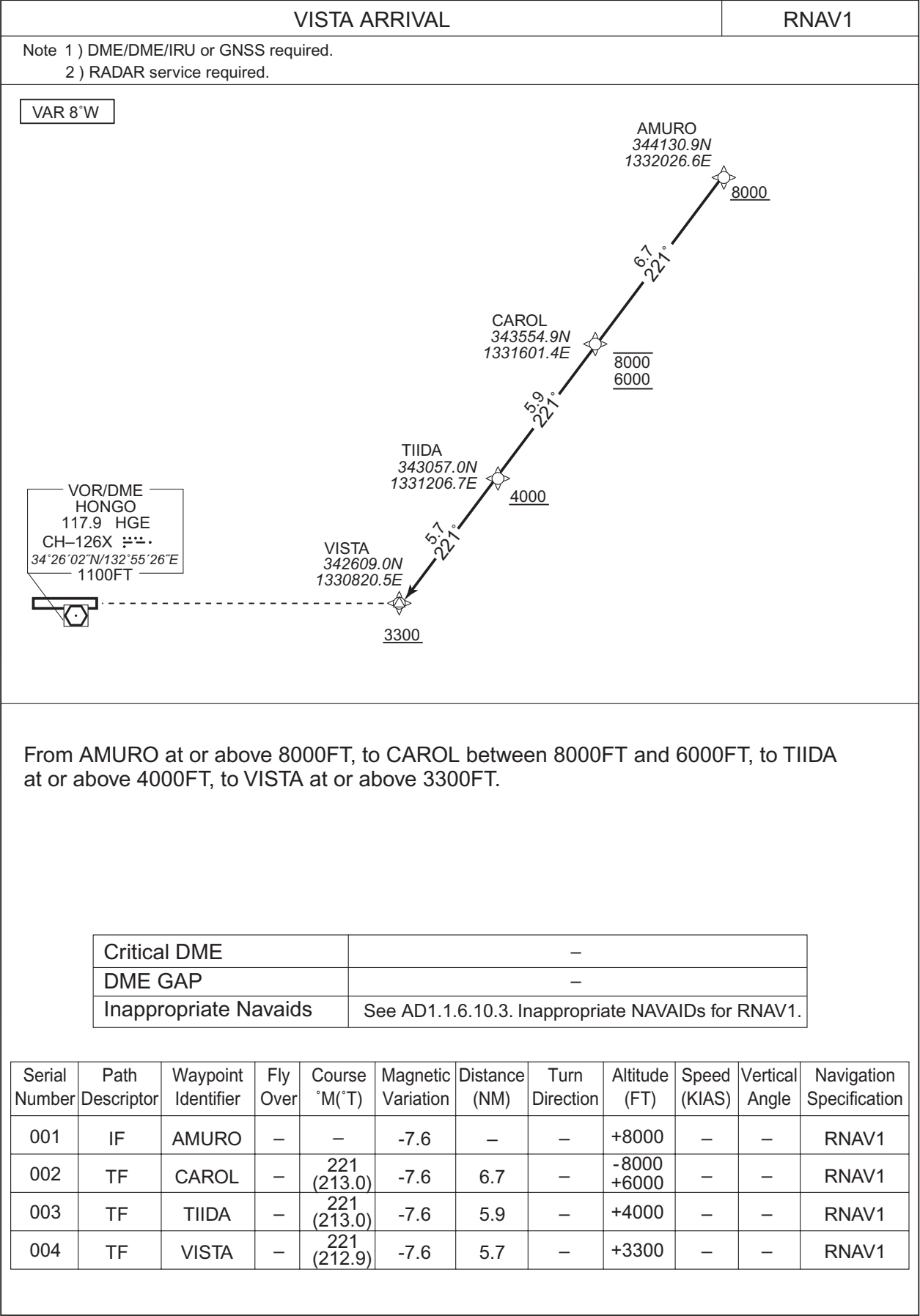
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	AMURO	—	—	-8.1	—	—	+8000	—	—	Basic RNP1
002	TF	MIATA	—	255 (247.4)	-8.1	6.3	—	+7000	—	—	Basic RNP1
003	TF	DEMIO	—	255 (247.3)	-8.1	16.2	—	+5500	—	—	Basic RNP1

CHANGE : Description of VAR.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY28



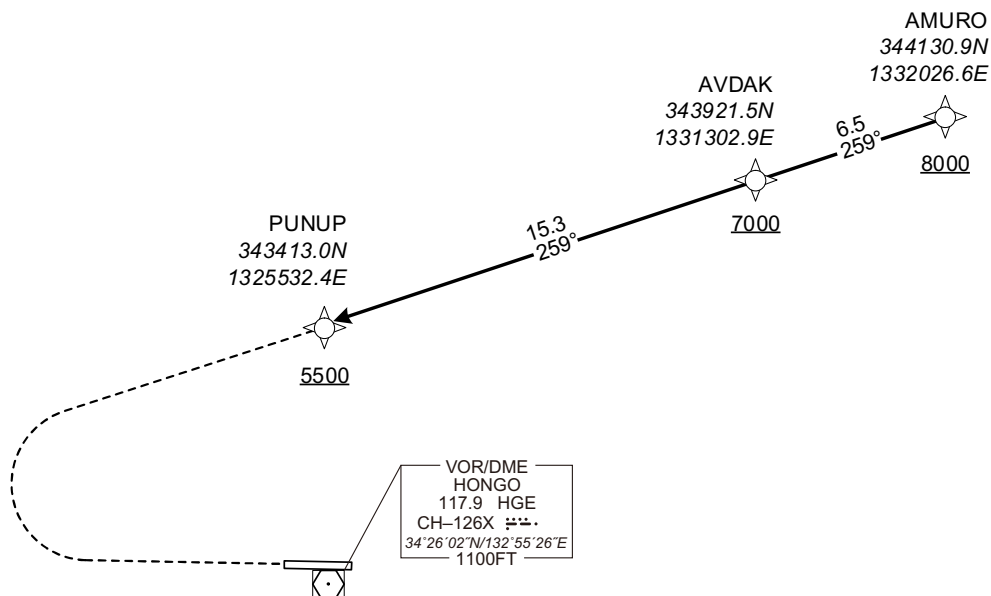
CHANGE : Description of VAR.

RJOA / HIROSHIMA

RNAV STAR RWY10

PUNUP ARRIVAL	Basic RNP1
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VAR 8°W



CHANGE : New PROC.

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	—	—	-8.1	—	—	+8000	—	—	Basic RNP1
002	TF	AVDAK	—	259 (250.5)	-8.1	6.5	—	+7000	—	—	Basic RNP1
003	TF	PUNUP	—	259 (250.4)	-8.1	15.3	—	+5500	—	—	Basic RNP1

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Z or LOC RWY10 (CAT III)

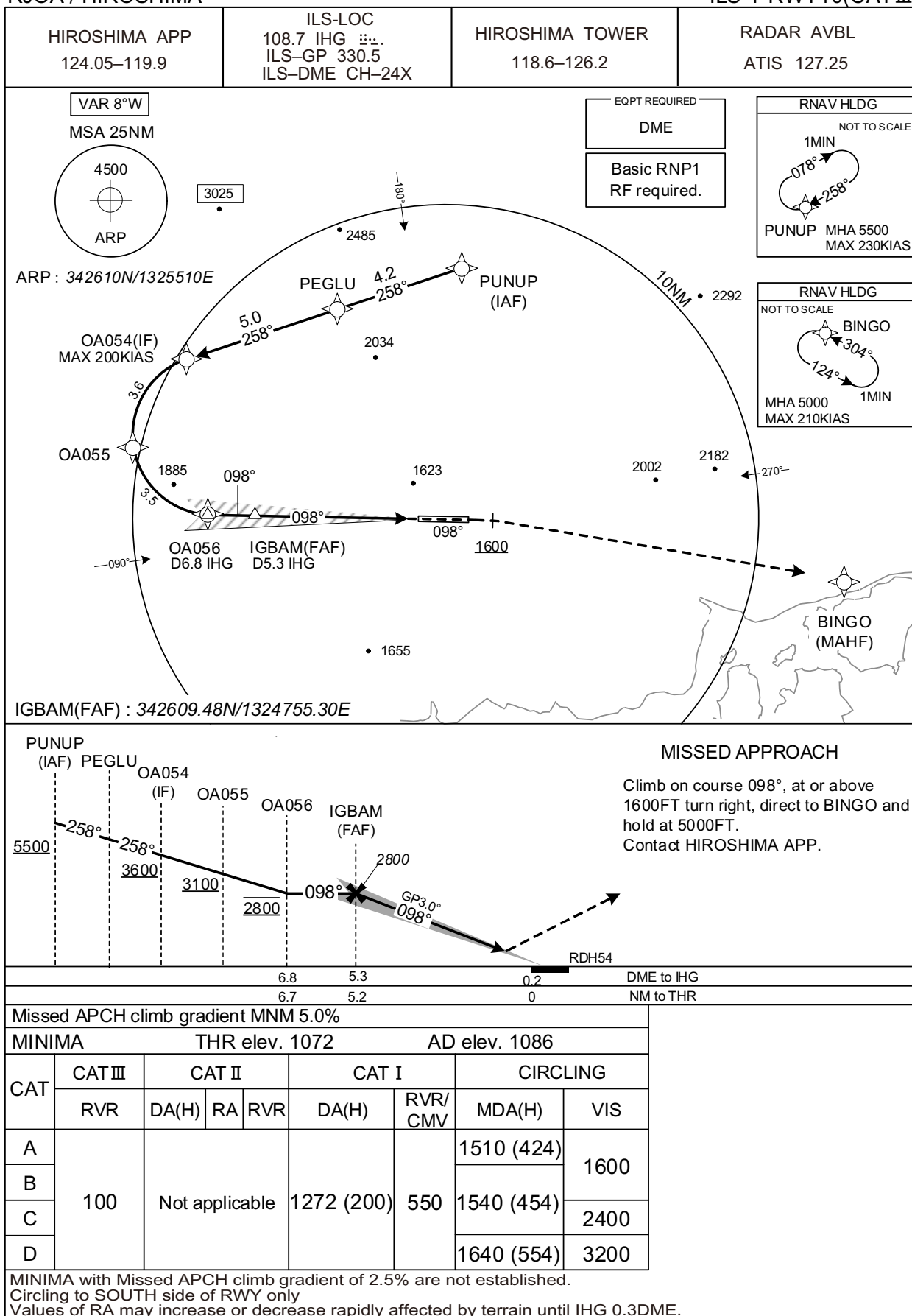


CHANGE : PROC renamed. Description of VAR.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Y RWY10(CAT III)



CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Y RWY10(CAT III)

Coding Table

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	PUNUP	—	—	-8.1	—	—	+5500	—	—	Basic RNP1
002	TF	PEGLU	—	258 (250.3)	-8.1	4.2	—	—	—	—	Basic RNP1
003	TF	OA054	—	258 (250.2)	-8.1	5.0	—	+3600	-200	—	Basic RNP1
004	RF Center: OARF3 r=2.55NM	OA055	—	—	-8.1	3.6	L	+3100	—	—	Basic RNP1
005	RF Center: OARF3 r=2.55NM	OA056	—	—	-8.1	3.5	L	2800	—	—	Basic RNP1
001	CA	—	—	098 (090.0)	-8.1	—	—	+1600	—	—	Basic RNP1
002	DF	BINGO	—	—	-8.1	—	R	5000	—	—	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	PUNUP	258 (250.3)	-8.1	1.0(-14000)	R	5500	FL140	-230(-14000)	Basic RNP1
Hold	BINGO	304 (296.1)	-8.1	1.0(-14000)	L	5000	FL140	-210(-14000)	Basic RNP1

Waypoint Coordinates

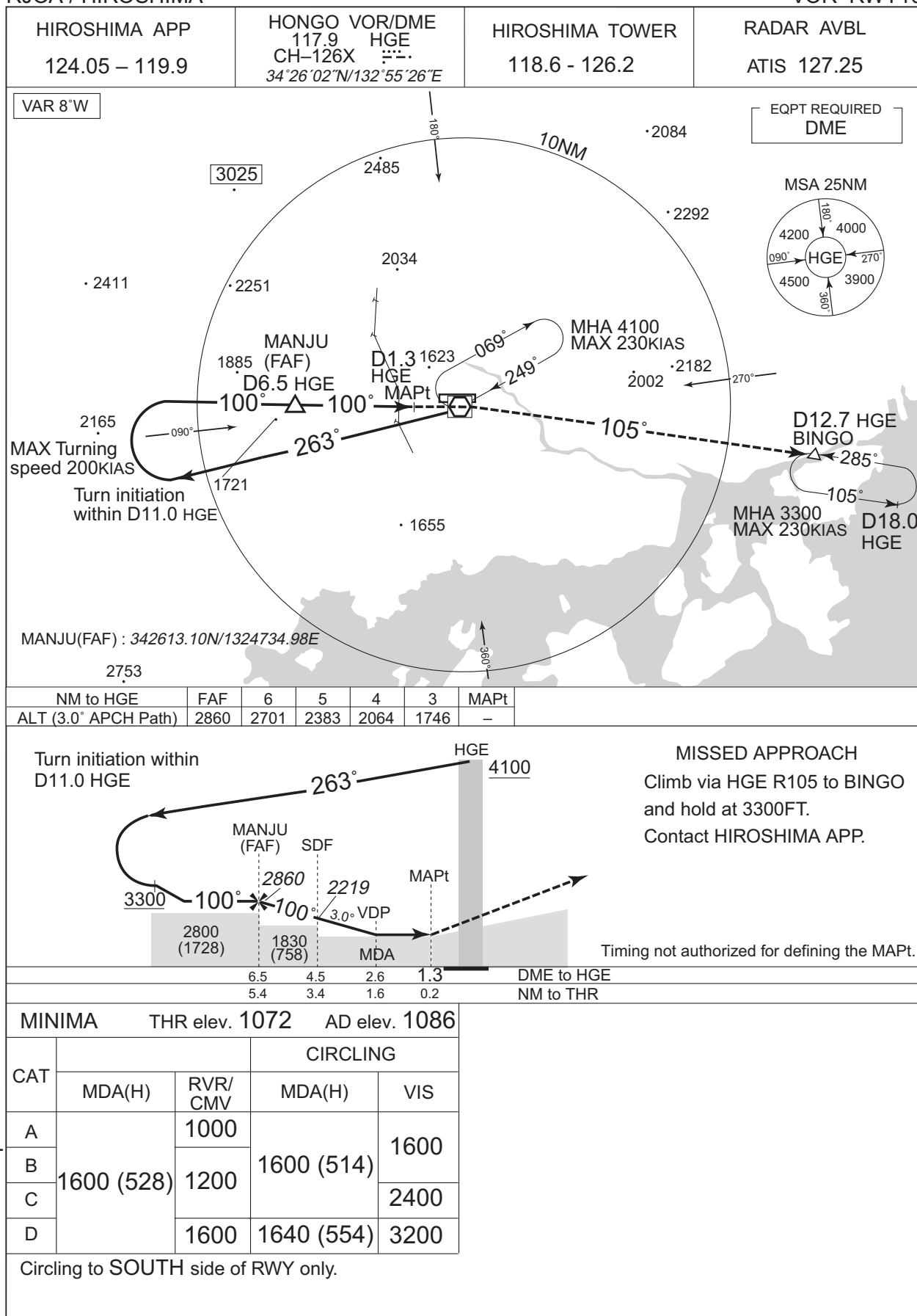
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PUNUP	343412.97N/1325532.36E	OARF3	342842.60N/1324606.23E
PEGLU	343248.19N/1325045.55E		
OA054	343106.85N/1324503.74E		
OA055	342814.80N/1324304.26E		
OA056	342609.36N/1324606.51E		
BINGO	342425.72N/1331040.68E		

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

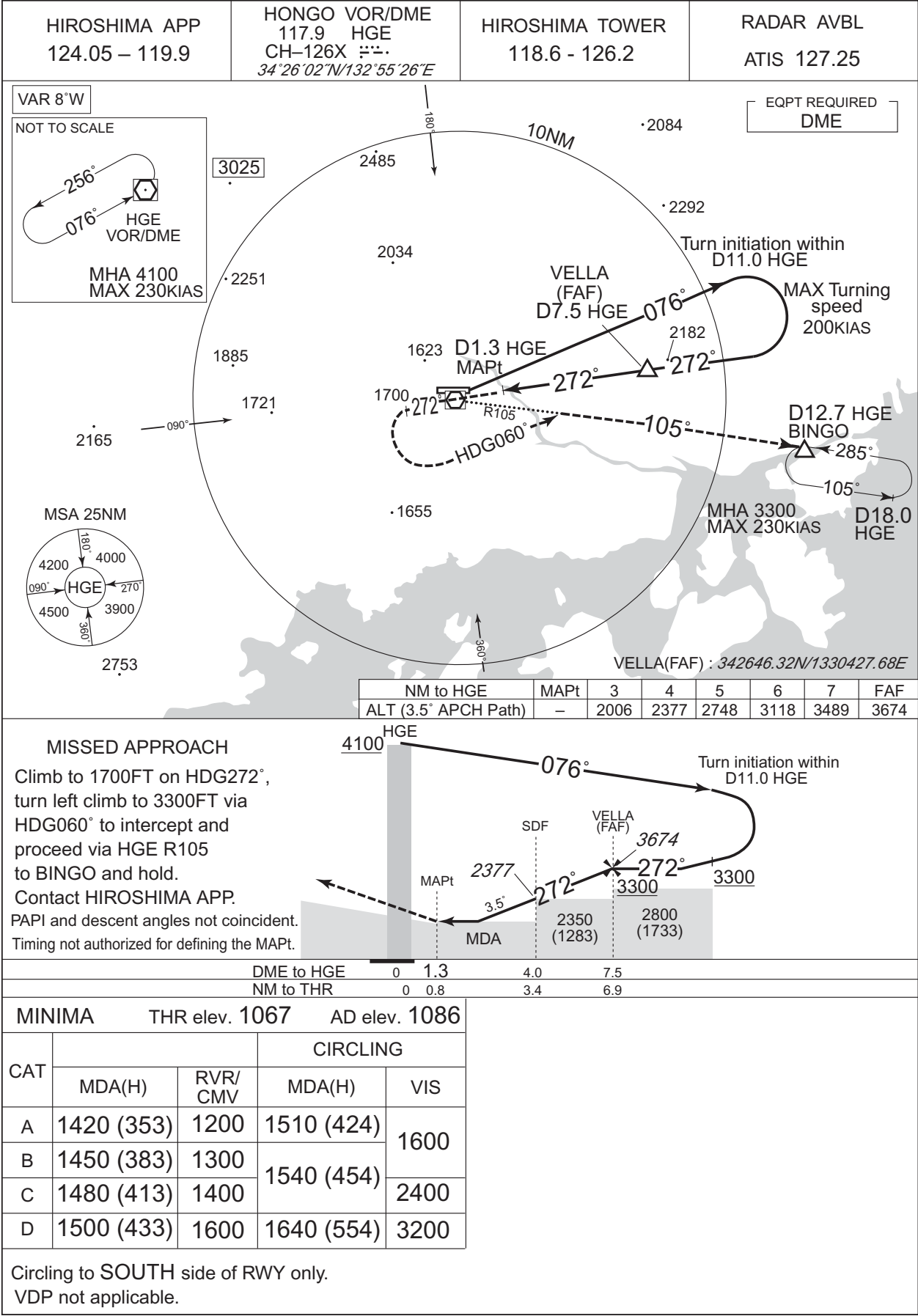
VOR RWY10



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

VOR RWY28



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP RWY28



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Z RWY10(AR)



CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Z RWY10(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	DEMIO	-	-	-8.1	-	-	+5500	-	-	-
002	TF	OA050	-	255 (247.1)	-8.1	4.5	-	+3200	-185	-	1.0
003	RF Center: OARF1 r=2.54NM	OA051	-	-	-8.1	2.8	L	3200	-	-	1.0
004	RF Center: OARF1 r=2.54NM	OA052	-	-	-8.1	4.2	L	1874	-	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-8.1	2.3	-	1126	-	-3.00/54	0.10 0.30
006	TF	OA053	-	098 (090.0)	-8.1	6.2	-	-	-	-	1.0
007	TF	BINGO	-	111 (103.2)	-8.1	7.6	-	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	DEMIO	255 (247.1)	-8.1	1.0 (-14000)	R	5500	FL140	-230(-14000)	1.0
Hold	BINGO	304 (296.1)	-8.1	1.0 (-14000)	L	5000	FL140	-210(-14000)	1.0

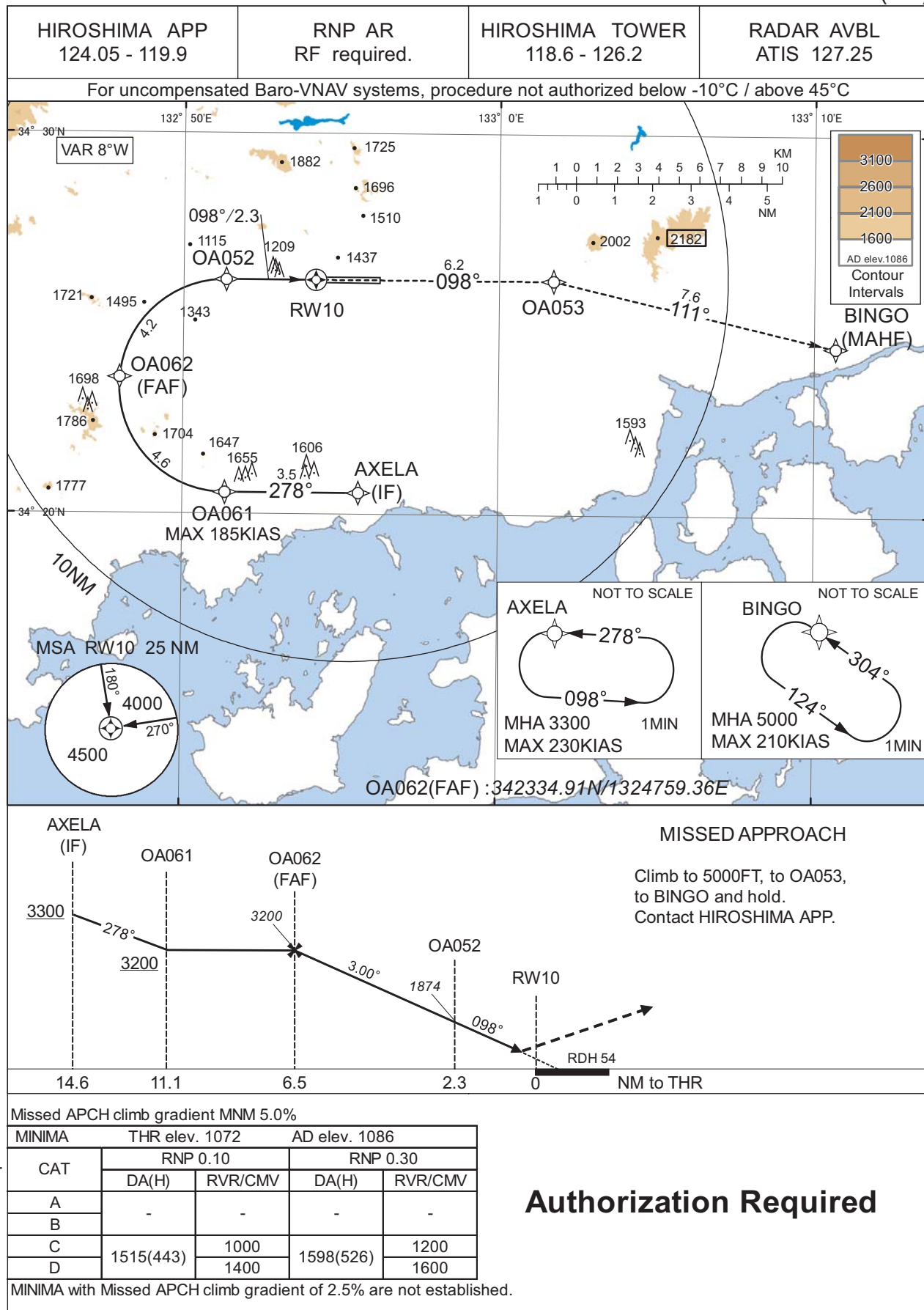
Waypoint Coordinates

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

RNP Y RWY10(AR)



CHANGE : Description of VAR.

Authorization Required

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Y RWY10(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	AXELA	-	-	-8.1	-	-	+3300	-	-	1.0
002	TF	OA061	-	278 (270.0)	-8.1	3.5	-	+3200	-185	-	1.0
003	RF Center: OARF2 r=2.79NM	OA062	-	-	-8.1	4.6	R	3200	-	-	1.0
004	RF Center: OARF2 r=2.79NM	OA052	-	-	-8.1	4.2	R	1874	-	-3.00	0.10 0.30
005	TF	RW10	Y	098 (090.0)	-8.1	2.3	-	1126	-	-3.00/54	0.10 0.30
006	TF	OA053	-	098 (090.0)	-8.1	6.2	-	-	-	-	1.0
007	TF	BINGO	-	111 (103.2)	-8.1	7.6	-	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	AXELA	278 (270.0)	-8.1	1.0 (-14000)	L	3300	FL140	-230(-14000)	1.0
Hold	BINGO	304 (296.1)	-8.1	1.0 (-14000)	L	5000	FL140	-210(-14000)	1.0

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 : VAR.

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

Minimum Vectoring Altitude CHART

VAR 8°W (2022)



CENTER : 342602N/1325458E (RADAR SITE)

CHANGE : VAR.