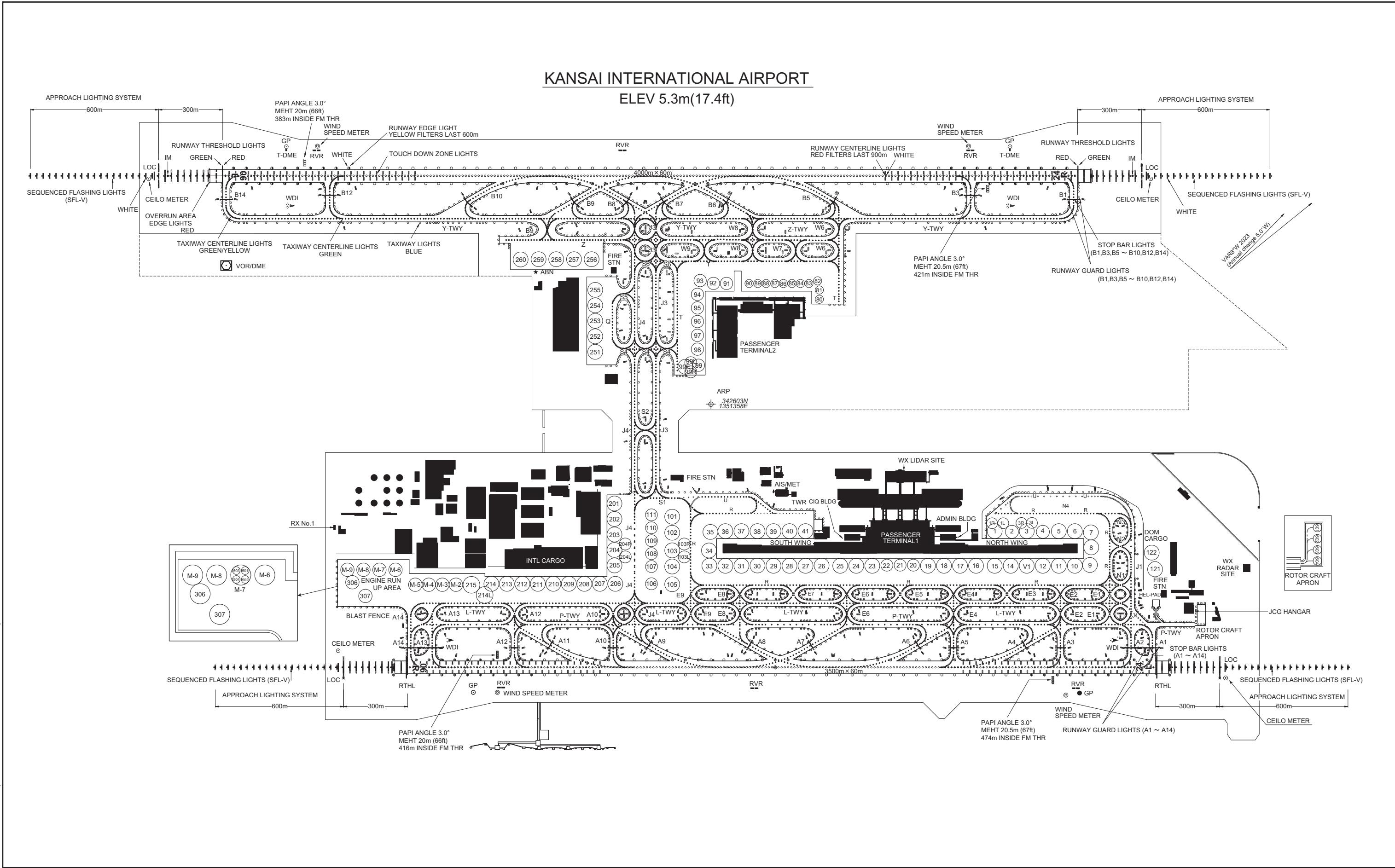


AERODROME CHART

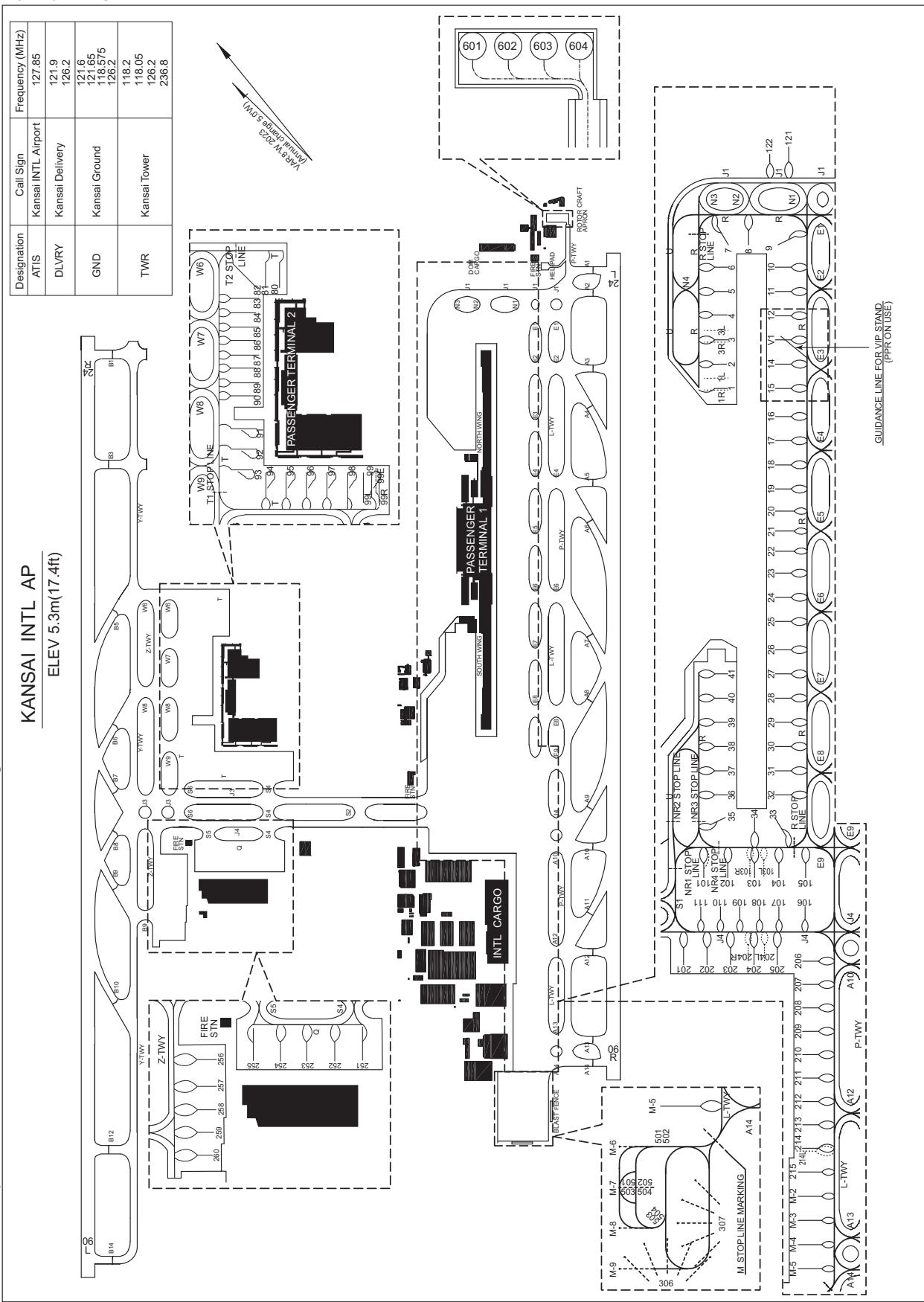
CHANGE : Spot 121, 122 installed. Stop bar LGT of the TWY B3 and B12 relocated.



RJBB / KANSAI INTL

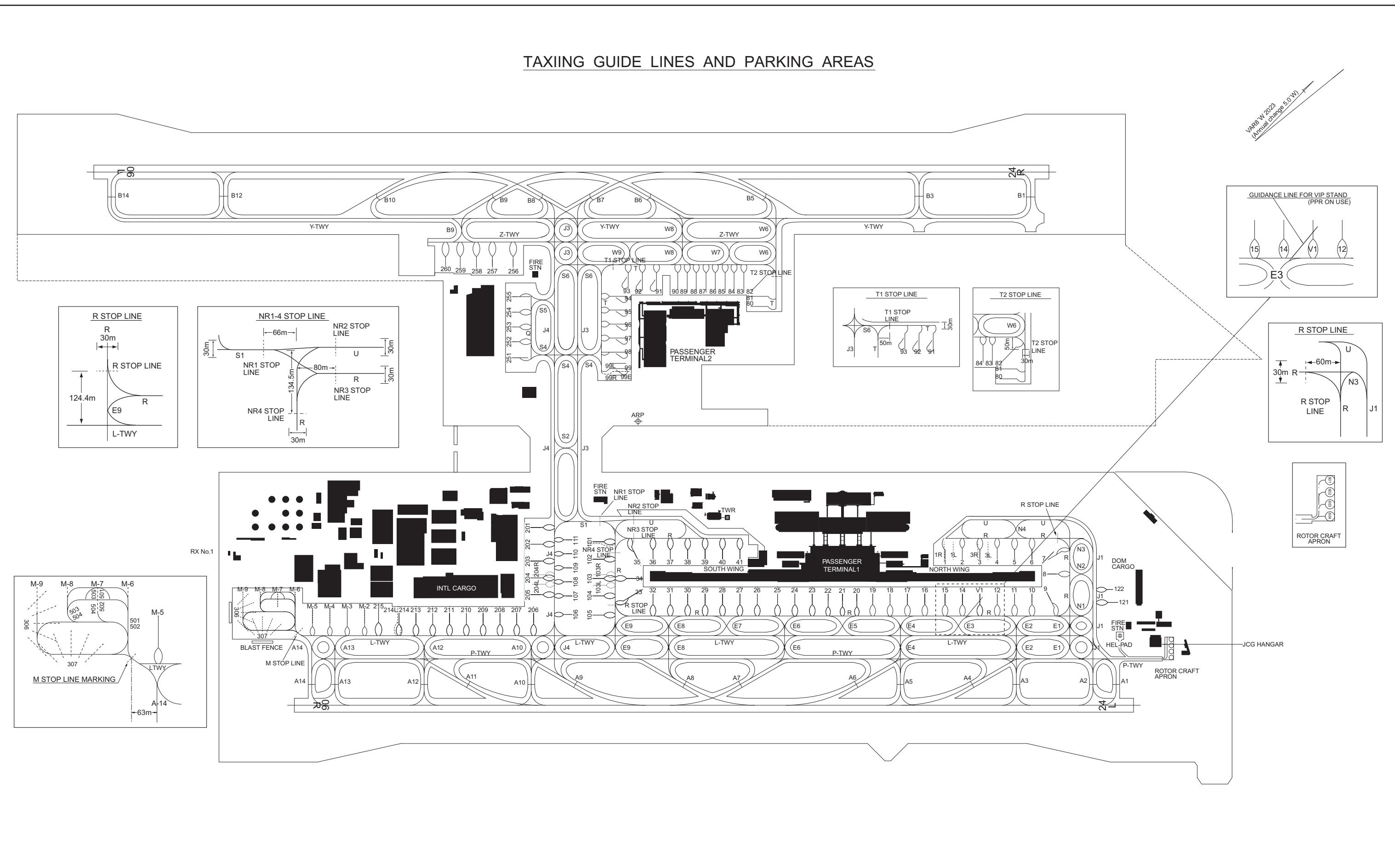
AD CHART

CHANGE : Spot 121, 122 installed. RWY HLDG PSN marking of the TWY B3 and B12 relocated.



CHANGE : Spot 121, 122 installed. RWY HLDG PSN marking of the TWY B3 and B12 relocated.

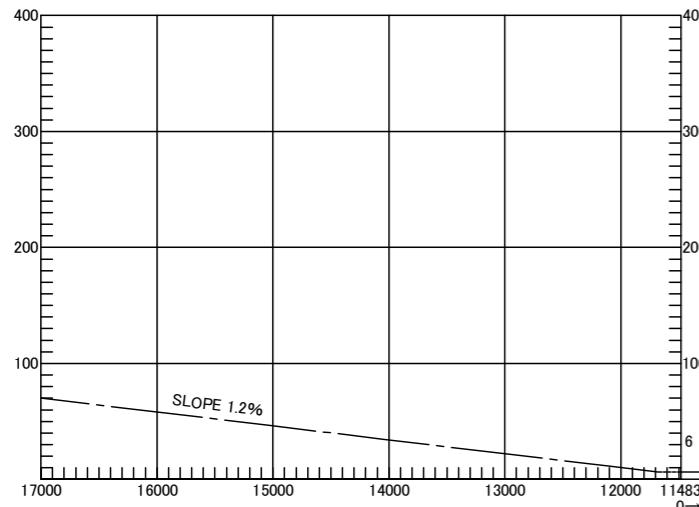
### TAXIING GUIDE LINES AND PARKING AREAS



AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATIONAL LIMITATIONS)

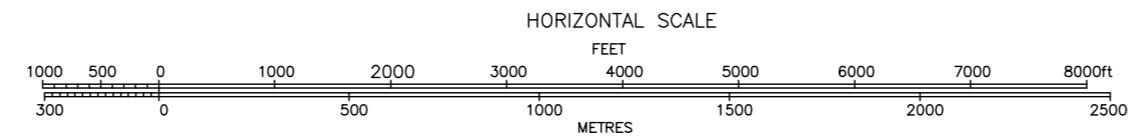
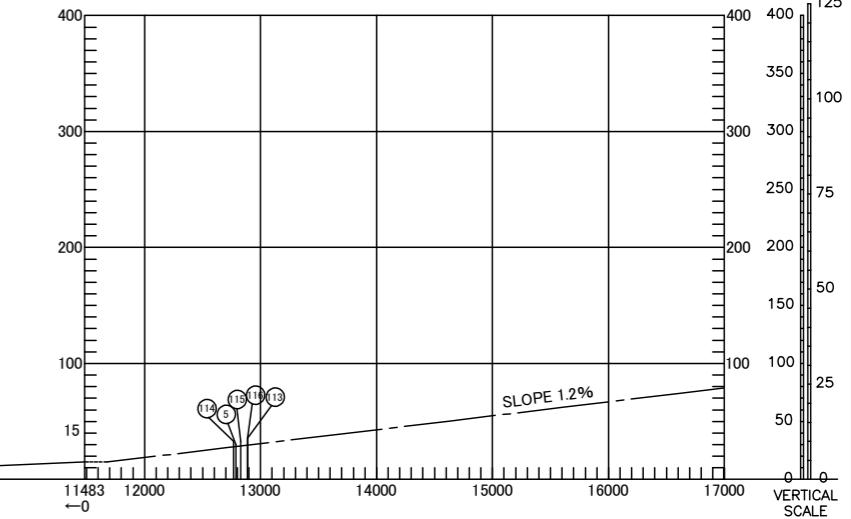
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8° W-FEB 2022



KANSAI INTERNATIONAL AIRPORT  
RWY : 06R/24L

DECLARED DISTANCES	
RWY 06R	RWY 24L
TAKE OFF RUN AVAILABLE	3500m
TAKE OFF DISTANCE AVAILABLE	3500m
ACCELERATE STOP DISTANCE AVAILABLE	3500m
LANDING DISTANCE AVAILABLE	3500m



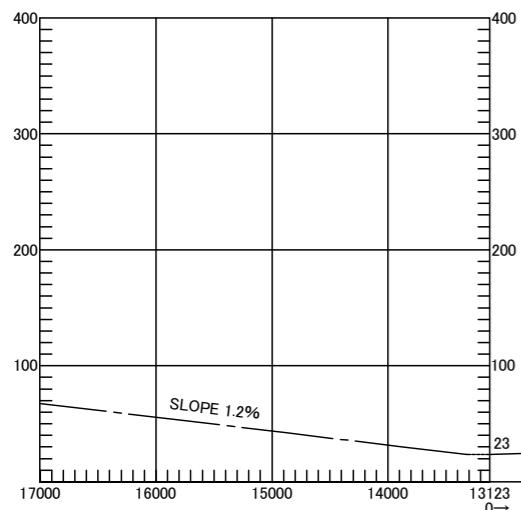
LEGEND		AMENDMENT RECORD		
Nr	DATE	ENTERED BY		
①	IDENTIFICATION NUMBER			
◎	POLE, TOWER, SPIRE, ANTENNA, ETC			
*	TREE	LEVEE		
—	RAILROAD	RIVER		
—	TRANSMISSION LINE OR OVERHEAD CABLE			
▲	TRIANGULATION POINT			
★	AERONAUTICAL GROUND LIGHT			

CHANGE : Update.

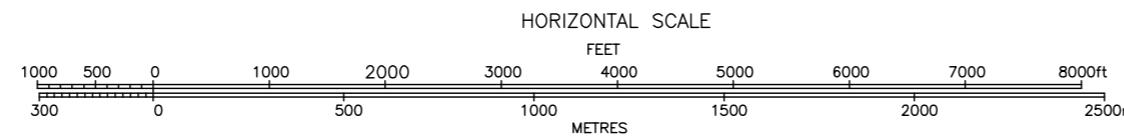
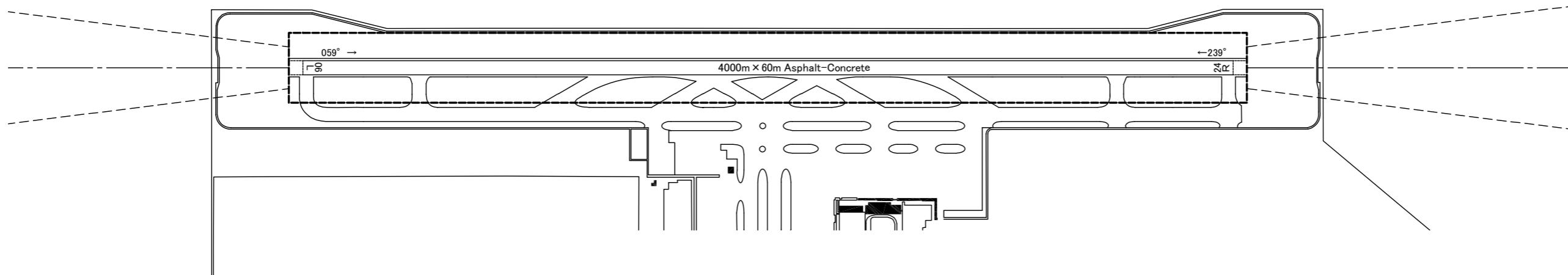
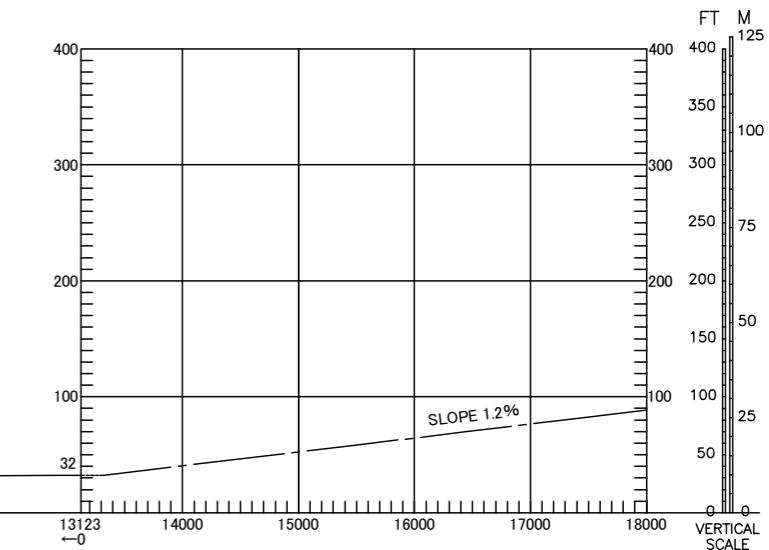
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATIONAL LIMITATIONS)

MAGNETIC VARIATION 8°W-FEB 2022



KANSAI INTERNATIONAL AIRPORT RWY : 06L/24R	
DECLARED DISTANCES	
RWY 06L	RWY 24R
TAKE OFF RUN AVAILABLE	4000m
TAKE OFF DISTANCE AVAILABLE	4000m
ACCELERATE STOP DISTANCE AVAILABLE	4000m
LANDING DISTANCE AVAILABLE	4000m



LEGEND		AMENDMENT RECORD		
Nr	DATE	ENTERED BY		
①	IDENTIFICATION NUMBER			
◎	POLE, TOWER, SPIRE, ANTENNA, ETC			
*	TREE	LEVEE		
—	RAILROAD	RIVER		
—	TRANSMISSION LINE OR OVERHEAD CABLE			
▲	TRIANGULATION POINT			
★	AERONAUTICAL GROUND LIGHT			

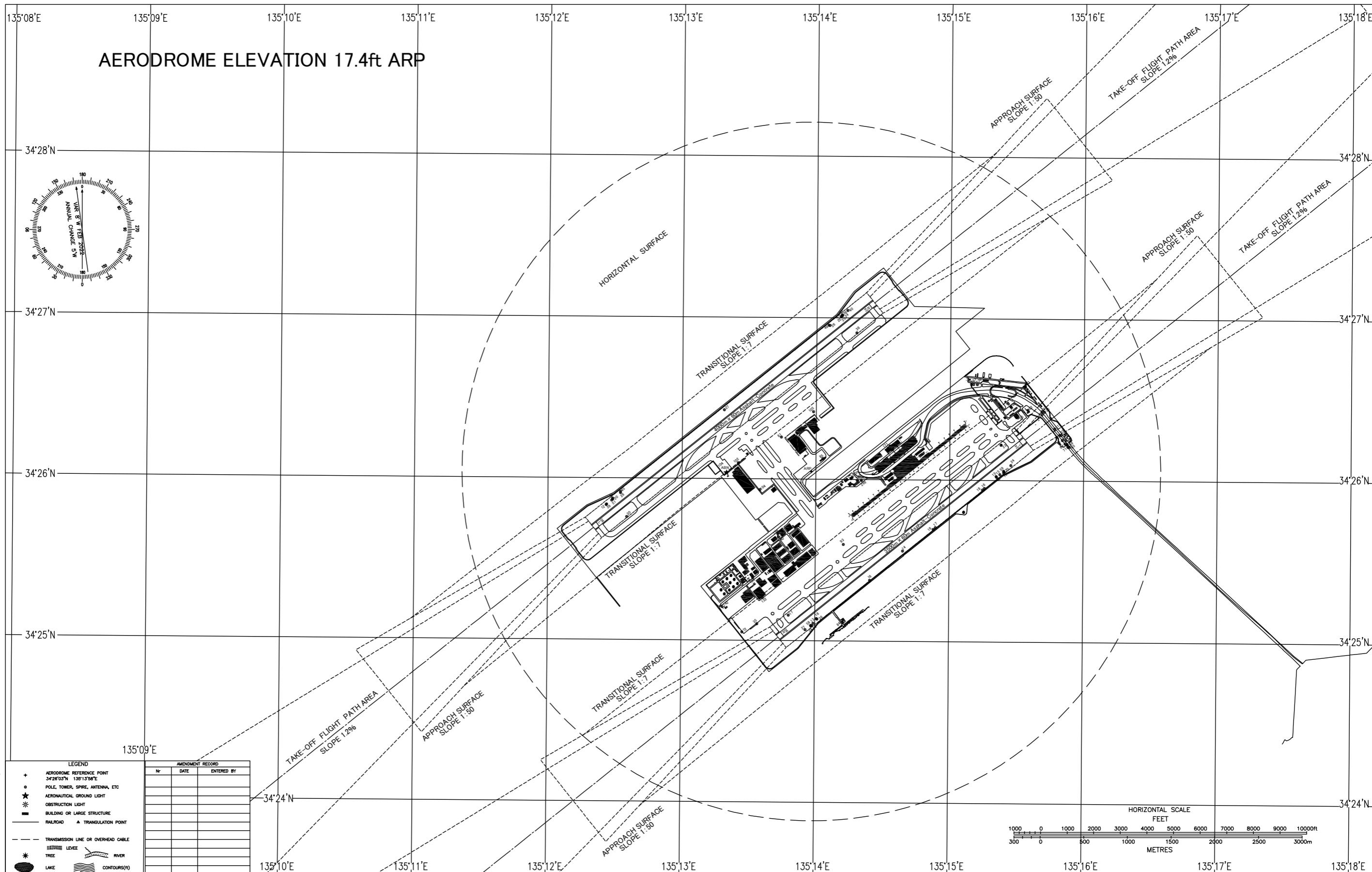
CHANGE : Update.

## AERODROME OBSTRUCTION CHART TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETICS

CHANGE : Update.

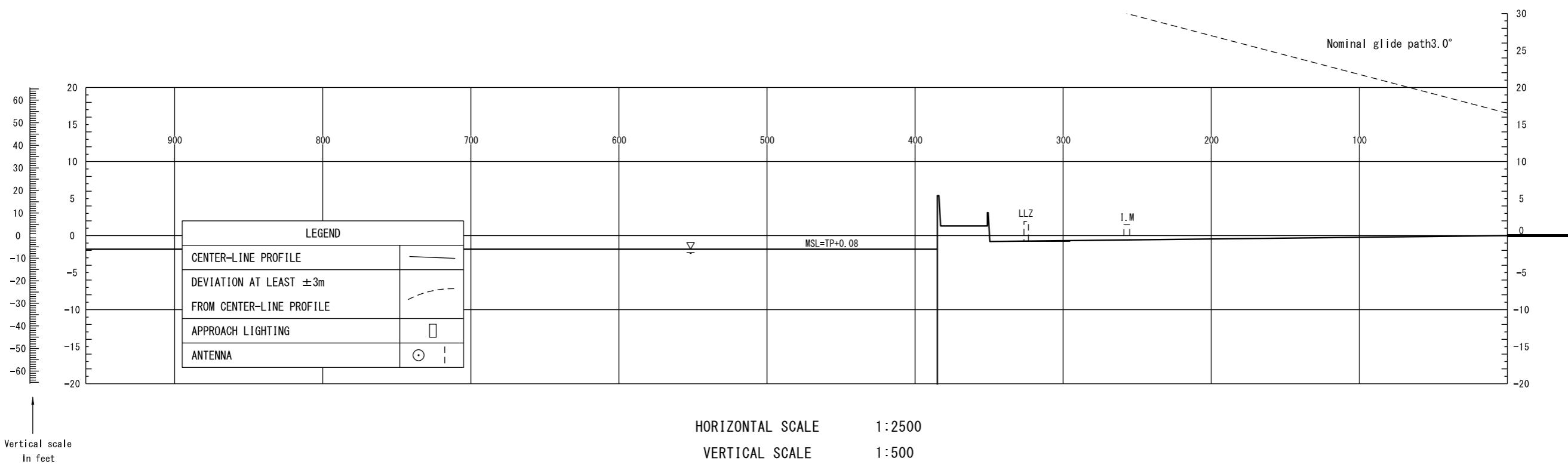
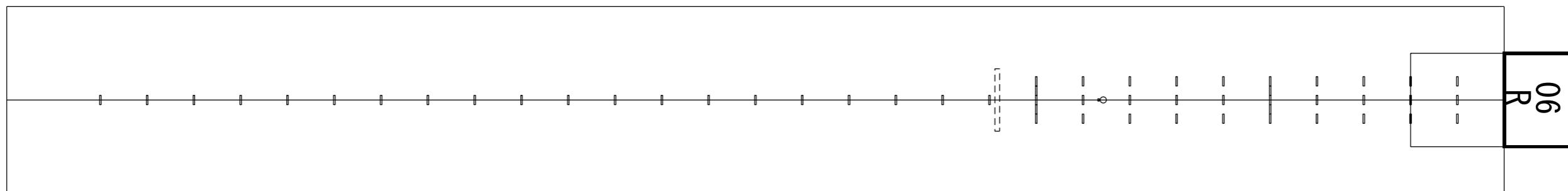
AERODROME ELEVATION 17.4ft ARP



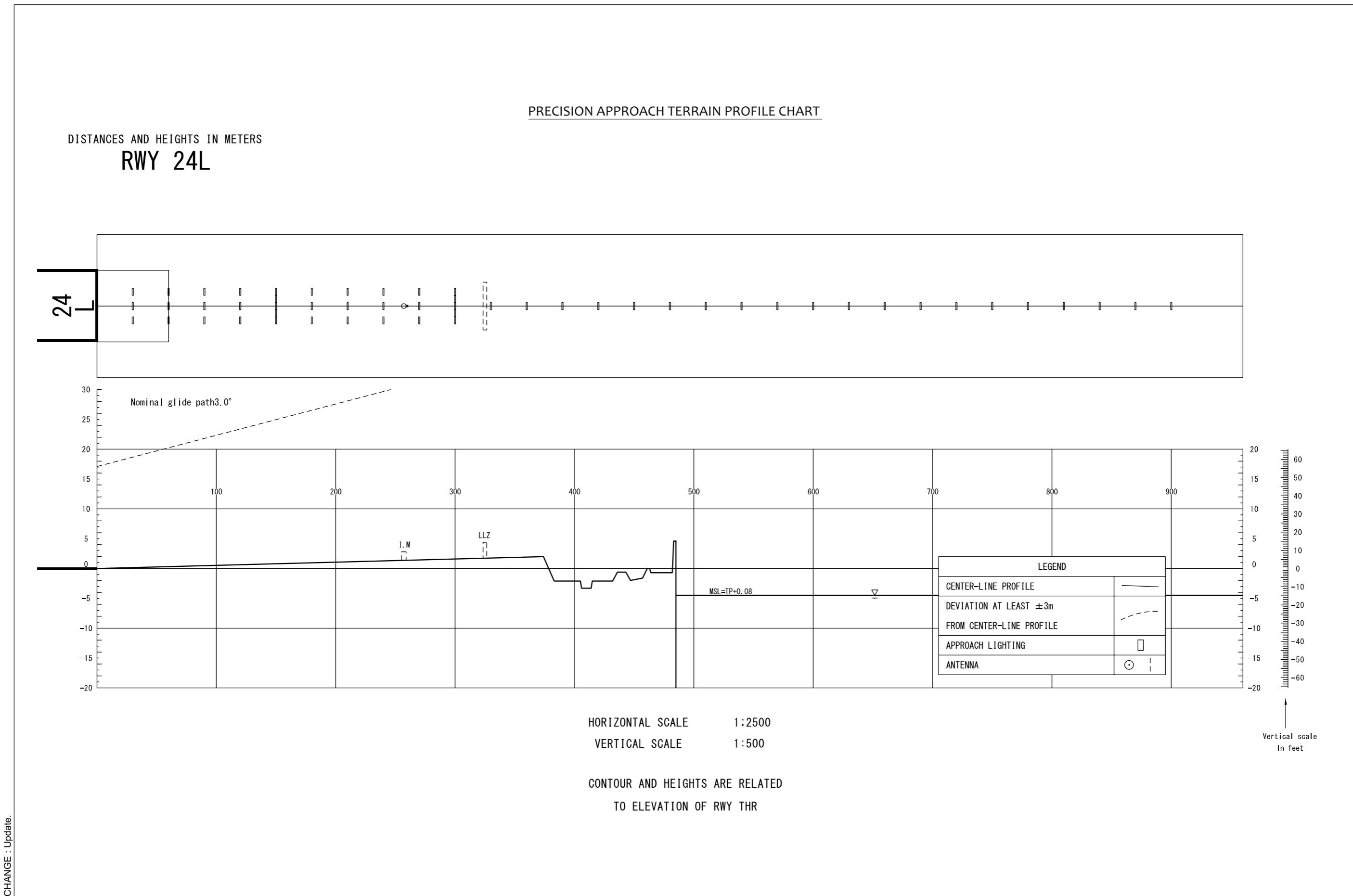
PRECISION APPROACH TERRAIN PROFILE CHART

DISTANCES AND HEIGHTS IN METERS

**RWY 06R**



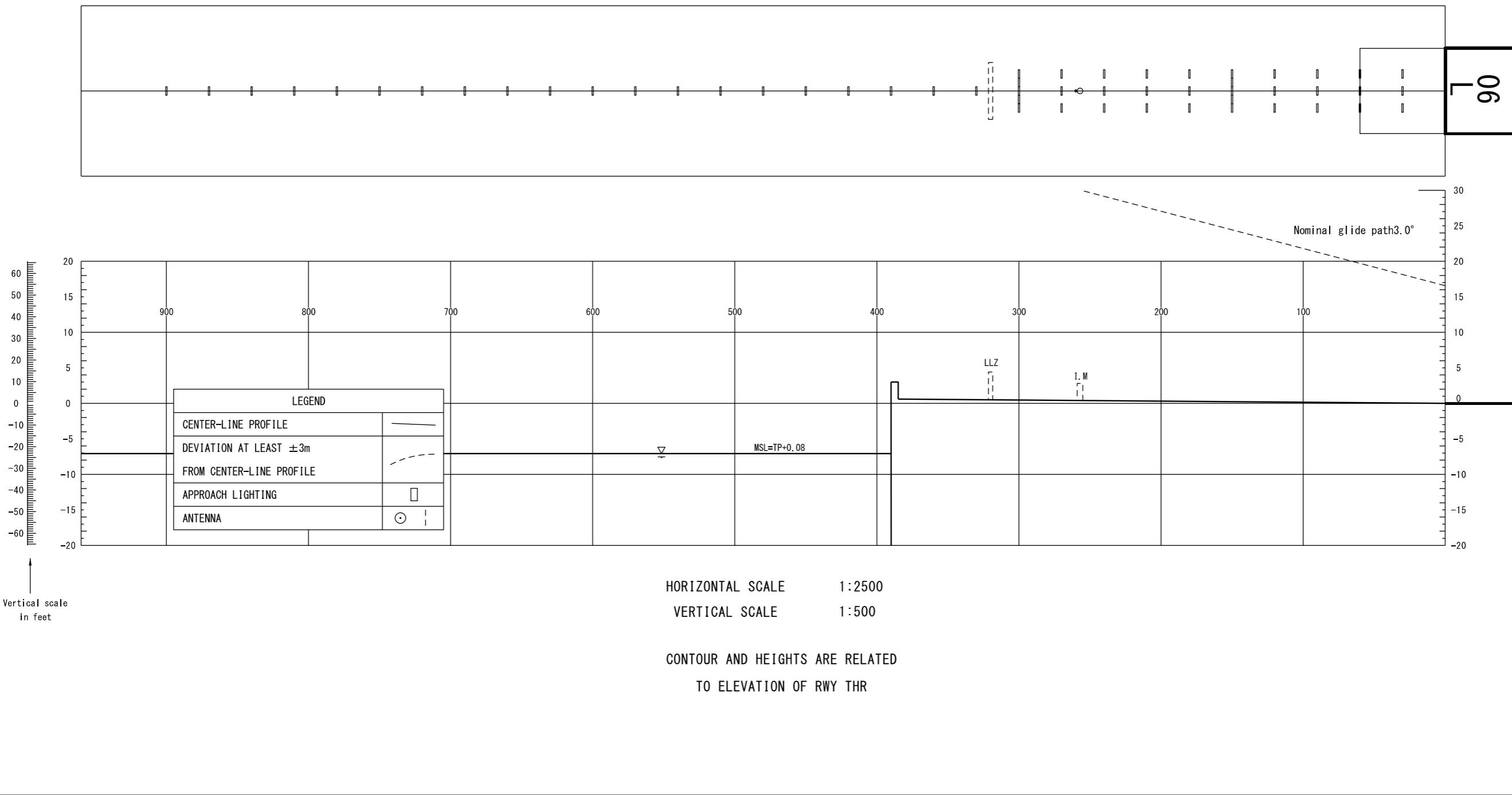
CHANGE : Update.  
CONTOUR AND HEIGHTS ARE RELATED  
TO ELEVATION OF RWY THR



## PRECISION APPROACH TERRAIN PROFILE CHART

## DISTANCES AND HEIGHTS IN METERS

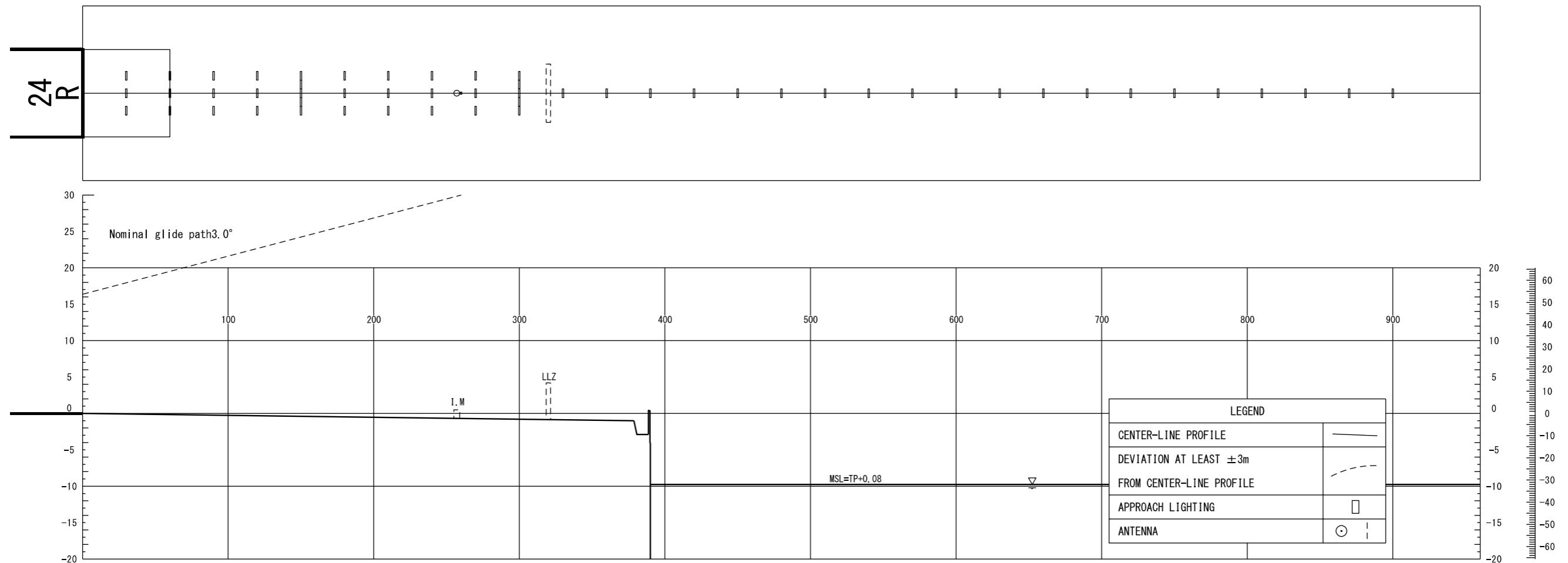
RWY 06L



PRECISION APPROACH TERRAIN PROFILE CHART

DISTANCES AND HEIGHTS IN METERS

**RWY 24R**



HORIZONTAL SCALE 1:2500

VERTICAL SCALE 1:500

CONTOUR AND HEIGHTS ARE RELATED  
TO ELEVATION OF RWY THR

CHANGE : Update.

STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

**MAIKO ONE DEPARTURE**

RWY06R : Climb on HDG054° to KIE 4.4DME, turn left, via KCE R167 to intercept and proceed via YOE R279 to MAIKO.

Cross KIE R049 at or above 2500FT,...

RWY06L : Turn left HDG289° to intercept and proceed via KIE R334, via YOE R279 to MAIKO,...

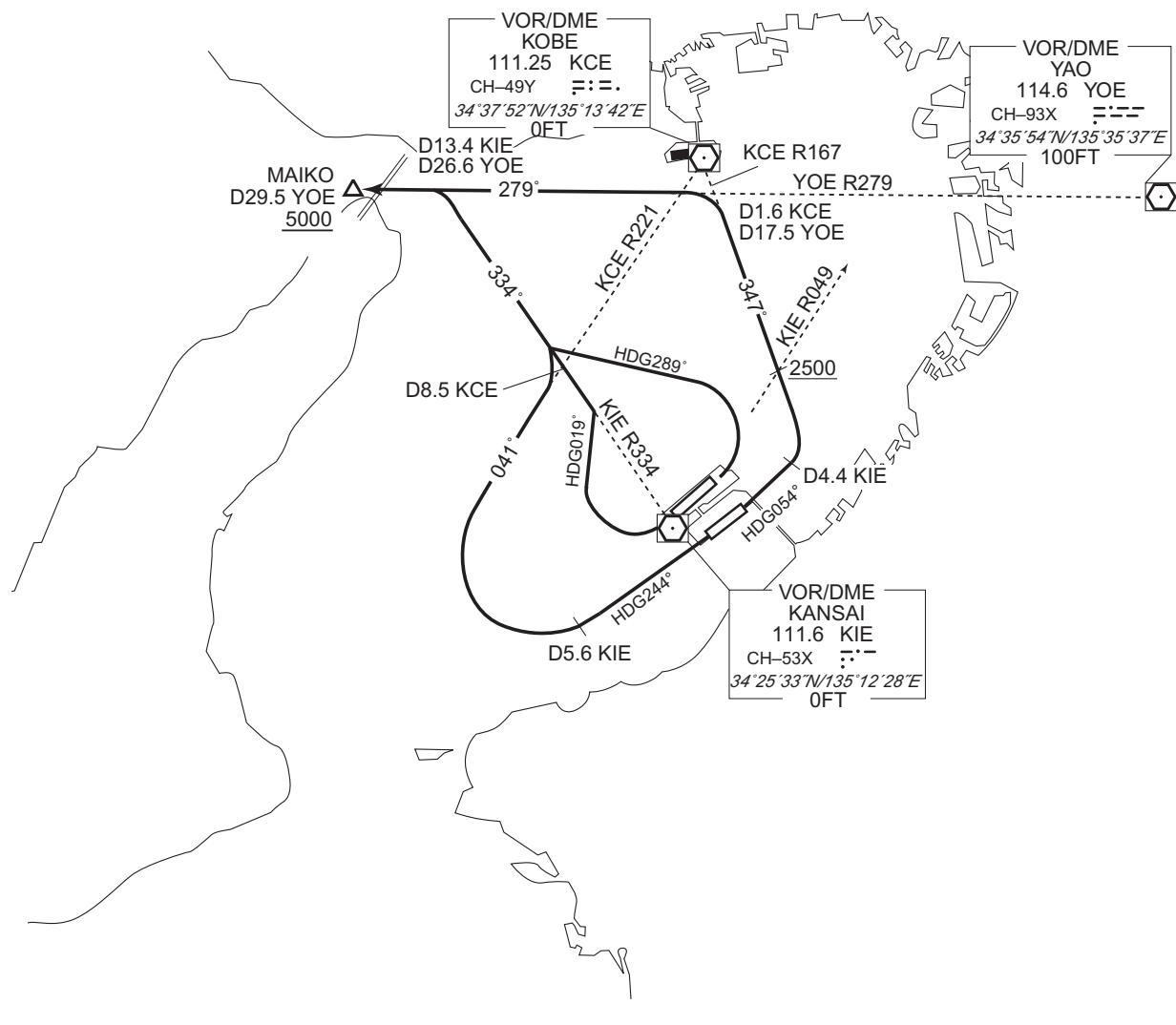
RWY24R : Turn right HDG019° to intercept and proceed via KIE R334, via YOE R279 to MAIKO,...

RWY24L : Climb on HDG244° to KIE 5.6DME, turn right, via KCE R221 to intercept and proceed via KIE R334, via YOE R279 to MAIKO,...

...cross MAIKO at or above 5000FT.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. PROC course. Note added.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

FERRY SEVEN DEPARTURE

RWY06R: Climb RWY HDG to 500FT, turn left HDG270°...

RWY06L : Turn left HDG270°...

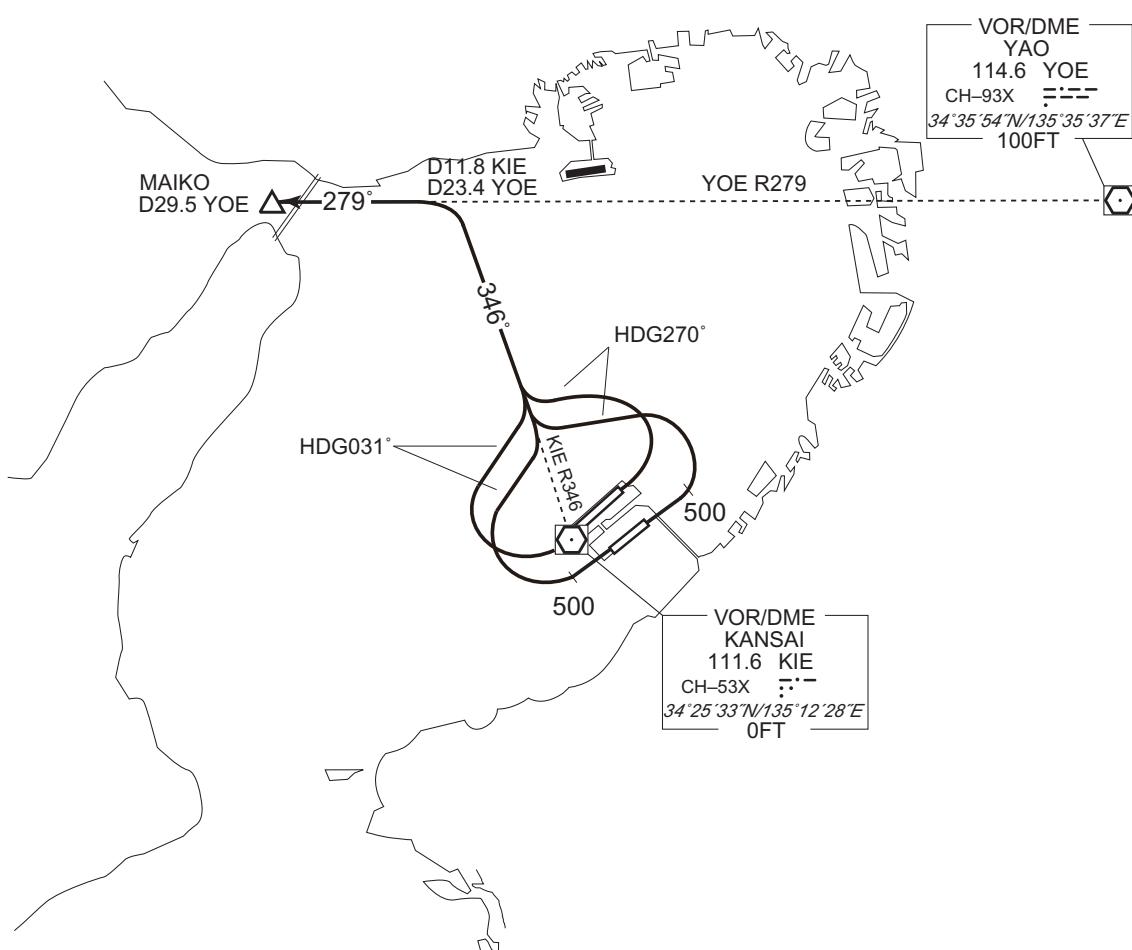
RWY24R: Turn right HDG031°...

RWY24L : Climb RWY HDG to 500FT, turn right HDG031°...

...to intercept and proceed via KIE R346, via YOE R279 to MAIKO.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 1100FT.

CHANGE : PROC renamed. PROC course. Note.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

TRANSITION

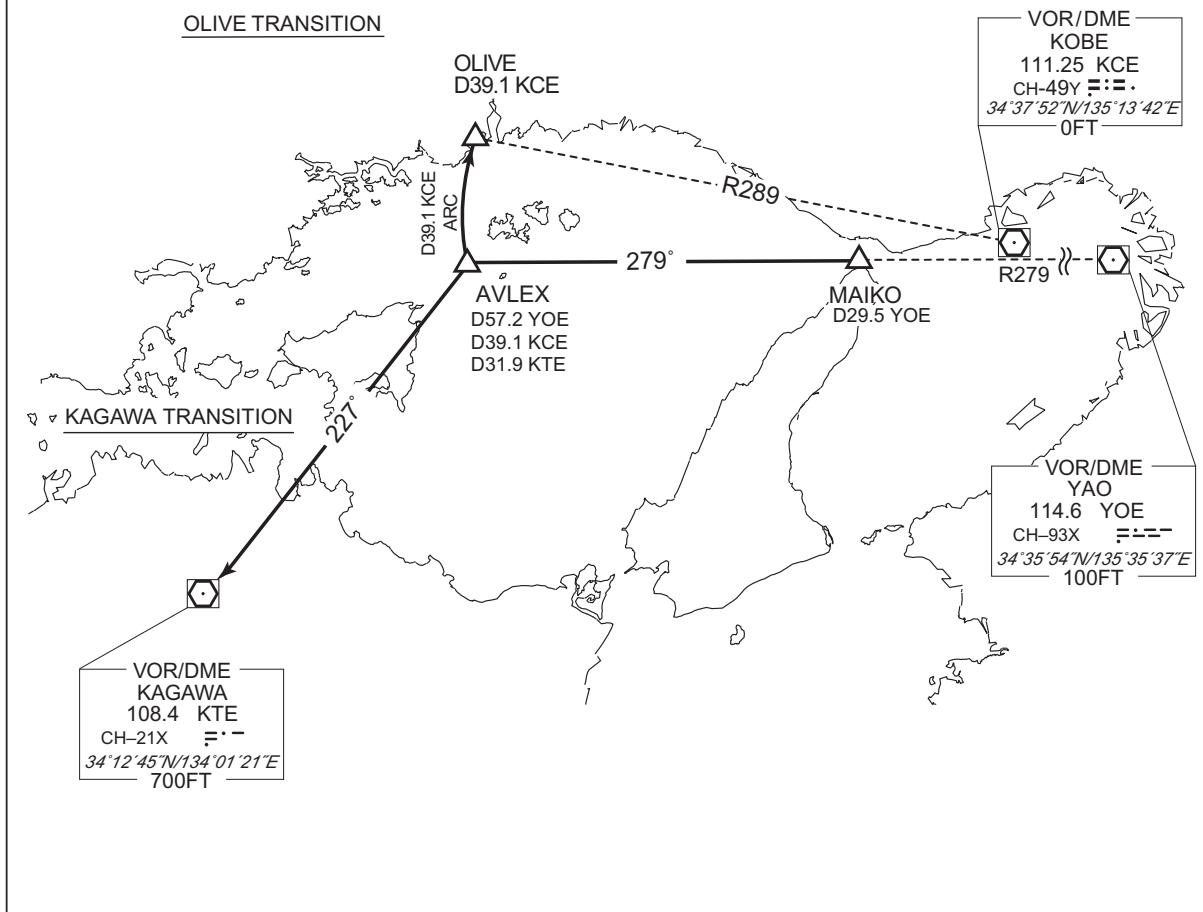
OLIVE TRANSITION

From over MAIKO, proceed via YOE R279 to AVLEX, turn right, via KCE 39.1DME clockwise ARC to OLIVE.

KAGAWA TRANSITION

From over MAIKO, proceed via YOE R279 to AVLEX, turn left, via KTE R047 to KTE VOR/DME.

CHANGE : OLIVE TRANSITION, KAGAWA TRANSITION, AVLEX established.  
MIYAZU TRANSITION, KIBI TRANSITION, KAGAWA NORTH TRANSITION, AYAYA abolished. PROC course.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

TOMOH WEST TWO DEPARTURE

RWY06R : Climb RWY HDG to 500FT, turn left HDG270°...

RWY06L : Turn left HDG270°...

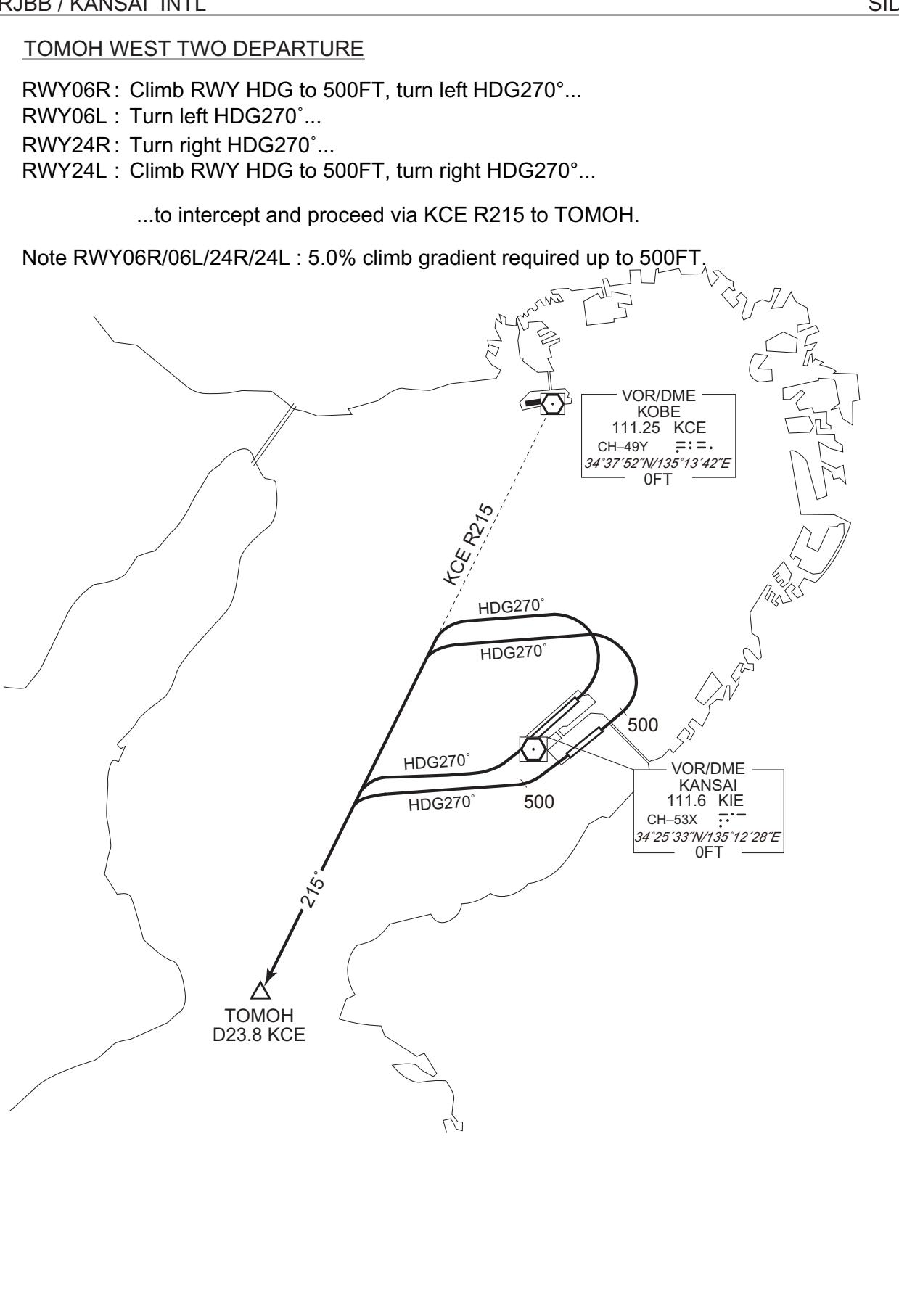
RWY24R : Turn right HDG270°...

RWY24L : Climb RWY HDG to 500FT, turn right HDG270°...

...to intercept and proceed via KCE R215 to TOMOH.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. PROC course. Note added.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

TOMOH FOUR DEPARTURE

**RWY06R** : Climb on HDG054° to KIE 4.4DME, turn left, via KCE R167 to KCE 6.8DME, turn left HDG270° to intercept and proceed via KCE R215 to TOMOH. Cross KIE R049 at or above 2500FT. ...

**RWY06L** : Turn left HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

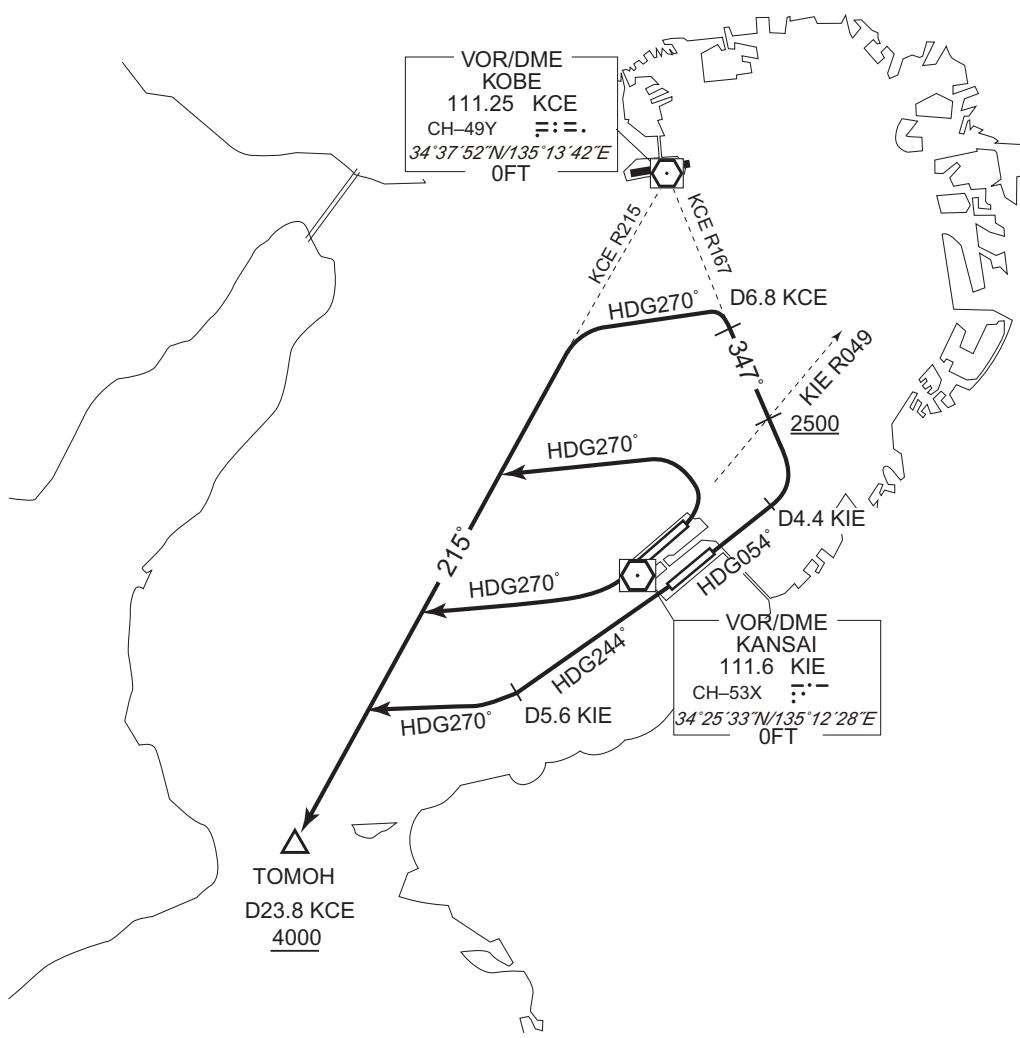
**RWY24R** : Turn right HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

**RWY24L** : Climb on HDG244° to KIE 5.6DME, turn right HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

...Cross TOMOH at or above 4000FT.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. Note added.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

TRANSITION

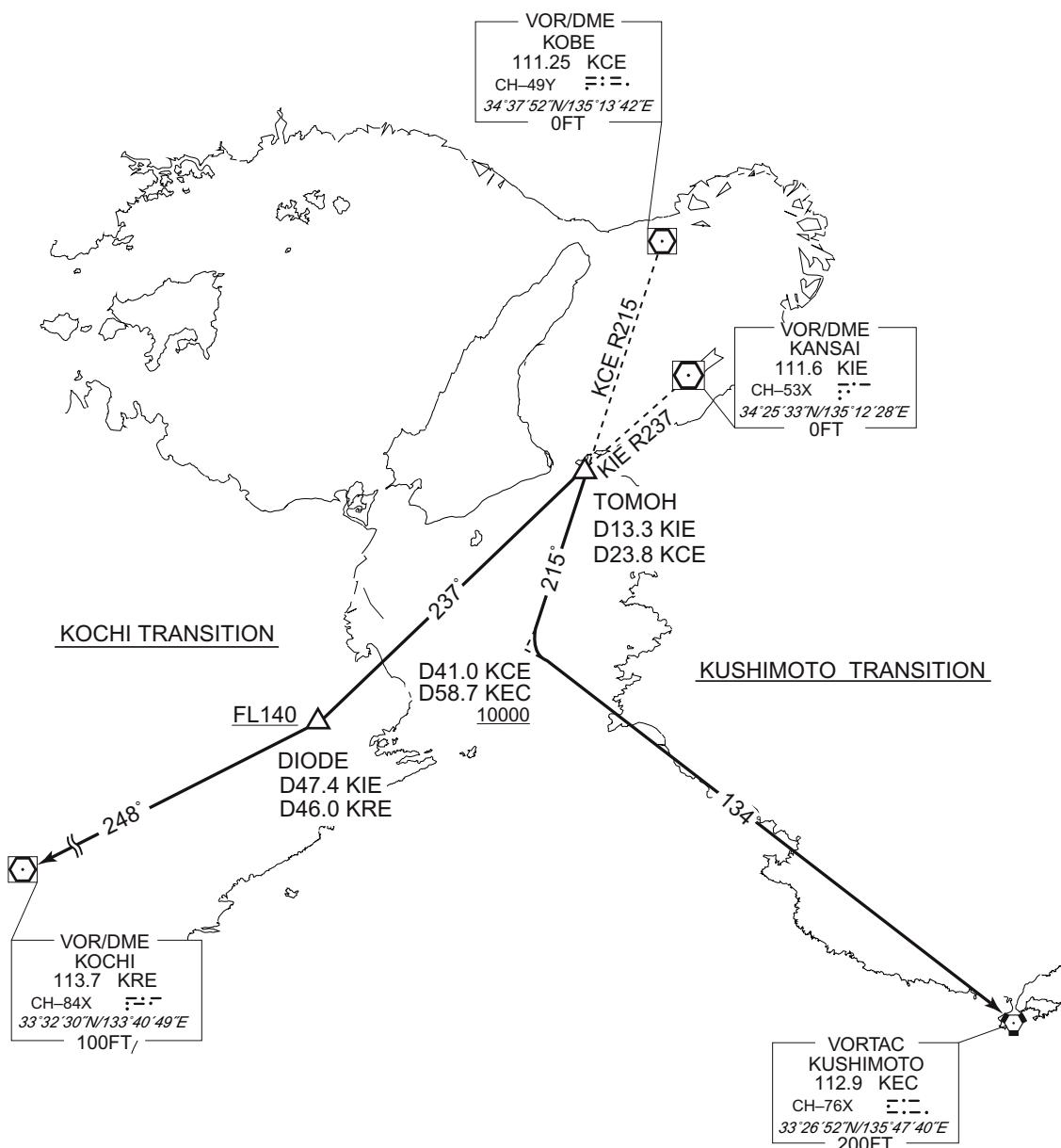
KOCHI TRANSITION

From over TOMOH, proceed via KIE R237 to DIODE, via KRE R068 to KRE VOR/DME.  
Cross DIODE at or above FL140.

KUSHIMOTO TRANSITION

From over TOMOH, proceed via KCE R215 to KCE 41.0DME, turn left, via KEC R314 to KEC VORTAC.  
Cross KCE R215/41.0DME at or above 10000FT.

CHANGE : KOCHI TRANSITION established. KOCHI SOUTH TRANSITION abolished. ALT restriction at D41.0 KCE/D58.7 KEC established. PROC course.



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL	RNAV SID and TRANSITION
UPMIN ONE DEPARTURE / DOPDA N TRANSITION / IVROG TRANSITION	RNP1
Note GNSS required.	
<p>The chart illustrates the standard departure routes from three main points: UPMIN, DOPDA, and IVROG.      - <b>UPMIN ONE DEPARTURE:</b> A direct route to UPMIN with a heading of 184°. From UPMIN, a climb on HDG 059° at or above 500FT leads to LELUS.      - <b>DOPDA N TRANSITION:</b> A direct route to DOPDA with a heading of 174°. From DOPDA, a climb on HDG 059° at or above 500FT leads to LELUS.      - <b>IVROG TRANSITION:</b> A direct route to IVROG with a heading of 250°. From IVROG, a climb on HDG 239° at or above 500FT leads to LELUS.      - <b>LELUS:</b> MAX 230KIAS (for RWY24R/L) is indicated.      - <b>VEKTA:</b> A point located between UPMIN and LELUS.      - <b>KUSHIMOTO(KEC):</b> Reached via a direct route from DOPDA with a heading of 131°.      - <b>VAR 8°W:</b> A note indicating a variation of 8 degrees West.</p>	
<b>CHANGE : New PROC.</b>	<p><b>UPMIN ONE DEPARTURE</b></p> <p>RWY06R : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to VEKTA, to UPMIN.      RWY06L : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to VEKTA, to UPMIN.      RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to VEKTA, to UPMIN.      RWY24L : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to VEKTA, to UPMIN.</p> <p>Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.</p> <p><b>DOPDA N TRANSITION</b></p> <p>From UPMIN, to DOPDA, to KEC.</p> <p><b>IVROG TRANSITION</b></p> <p>From UPMIN, to IVROG.</p>

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

UPMIN ONE DEPARTURE

## RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	L	—	—	—	RNP1
003	TF	VEKTA	—	237 (229.2)	-8.1	3.6	—	—	—	—	RNP1
004	TF	UPMIN	—	184 (175.9)	-8.1	8.0	—	—	—	—	RNP1

## RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	L	—	—	—	RNP1
003	TF	VEKTA	—	237 (229.2)	-8.1	3.6	—	—	—	—	RNP1
004	TF	UPMIN	—	184 (175.9)	-8.1	8.0	—	—	—	—	RNP1

## RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	R	—	-230	—	RNP1
003	TF	VEKTA	—	237 (229.2)	-8.1	3.6	—	—	—	—	RNP1
004	TF	UPMIN	—	184 (175.9)	-8.1	8.0	—	—	—	—	RNP1

## RWY24L

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	R	—	-230	—	RNP1
003	TF	VEKTA	—	237 (229.2)	-8.1	3.6	—	—	—	—	RNP1
004	TF	UPMIN	—	184 (175.9)	-8.1	8.0	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
LELUS	342436.6N / 1350309.3E
VEKTA	342215.6N / 1345951.2E
UPMIN	341416.7N / 1350033.1E

CHANGE : New PROC.

**STANDARD DEPARTURE CHART - INSTRUMENT**

RJBB / KANSAI INTL

RNAV SID and TRANSITION

**DOPDA N 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	UPMIN	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	DOPDA	—	174 (166.2)	-8.1	20.3	—	—	—	—	RNP1
003	TF	KEC	—	137 (128.7)	-8.1	44.2	—	—	—	—	RNP1

**IVROG 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	UPMIN	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	IVROG	—	250 (241.5)	-8.1	74.1	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
UPMIN	341416.7N / 1350033.1E	KEC	332651.9N / 1354740.2E
DOPDA	335436.4N / 1350622.2E	IVROG	333828.1N / 1334224.0E

CHANGE : New PROC.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

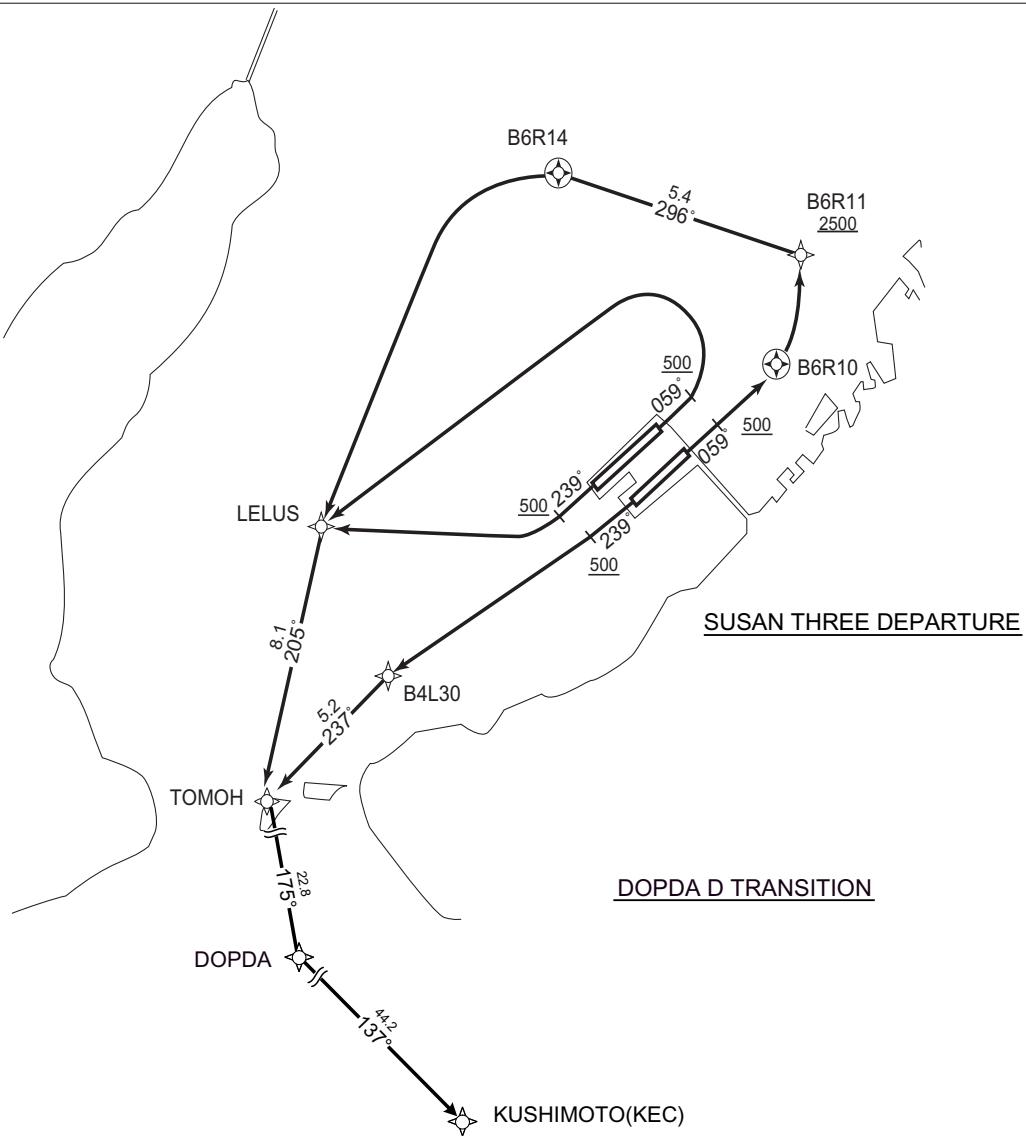
RNAV SID and TRANSITION

## SUSAN THREE DEPARTURE / DOPDA D TRANSITION

RNP1

Note GNSS required.

VAR 8°W

SUSAN THREE DEPARTURE

RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to LELUS, to TOMOH.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to TOMOH.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to TOMOH.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L30, to TOMOH.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

DOPDA D TRANSITION

From TOMOH, to DOPDA, to KEC.

CHANGE : PROC renamed. DOPDA D TRANSITION established. LELUS, DOPDA established. BB430 abolished. Note added.  
Navigation Specification.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

SUSAN THREE DEPARTURE

RWY06R

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	–	–	059 (050.9)	-8.1	–	–	+500	–	–	RNP1
002	DF	B6R10	Y	–	-8.1	–	–	–	–	–	RNP1
003	DF	B6R11	–	–	-8.1	–	L	+2500	–	–	RNP1
004	TF	B6R14	Y	296 (287.8)	-8.1	5.4	–	–	–	–	RNP1
005	DF	LELUS	–	–	-8.1	–	L	–	–	–	RNP1
006	TF	TOMOH	–	205 (196.6)	-8.1	8.1	–	–	–	–	RNP1

RWY06L

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	–	–	059 (050.9)	-8.1	–	–	+500	–	–	RNP1
002	DF	LELUS	–	–	-8.1	–	L	–	–	–	RNP1
003	TF	TOMOH	–	205 (196.6)	-8.1	8.1	–	–	–	–	RNP1

RWY24R

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	–	–	239 (230.9)	-8.1	–	–	+500	–	–	RNP1
002	DF	LELUS	–	–	-8.1	–	R	–	–	–	RNP1
003	TF	TOMOH	–	205 (196.6)	-8.1	8.1	–	–	–	–	RNP1

RWY24L

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	–	–	239 (230.9)	-8.1	–	–	+500	–	–	RNP1
002	DF	B4L30	–	–	-8.1	–	–	–	–	–	RNP1
003	TF	TOMOH	–	237 (229.1)	-8.1	5.2	–	–	–	–	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	LELUS	342436.6N / 1350309.3E
B6R11	343140.8N / 1351845.1E	B4L30	342013.0N / 1350504.1E
B6R14	343320.1N / 1351229.1E	TOMOH	341649.6N / 1350020.3E

CHANGE : PROC renamed. LELUS established. BB430 abolished. VAR. Navigation Specification. Waypoint Coordinates added.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

DOPDA D 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	TOMOH	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	DOPDA	—	175 (167.3)	-8.1	22.8	—	—	—	—	RNP1
003	TF	KEC	—	137 (128.7)	-8.1	44.2	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
TOMOH	341649.6N / 1350020.3E
DOPDA	335436.4N / 1350622.2E
KEC	332651.9N / 1354740.2E

CHANGE : DOPDA D TRANSITION established.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

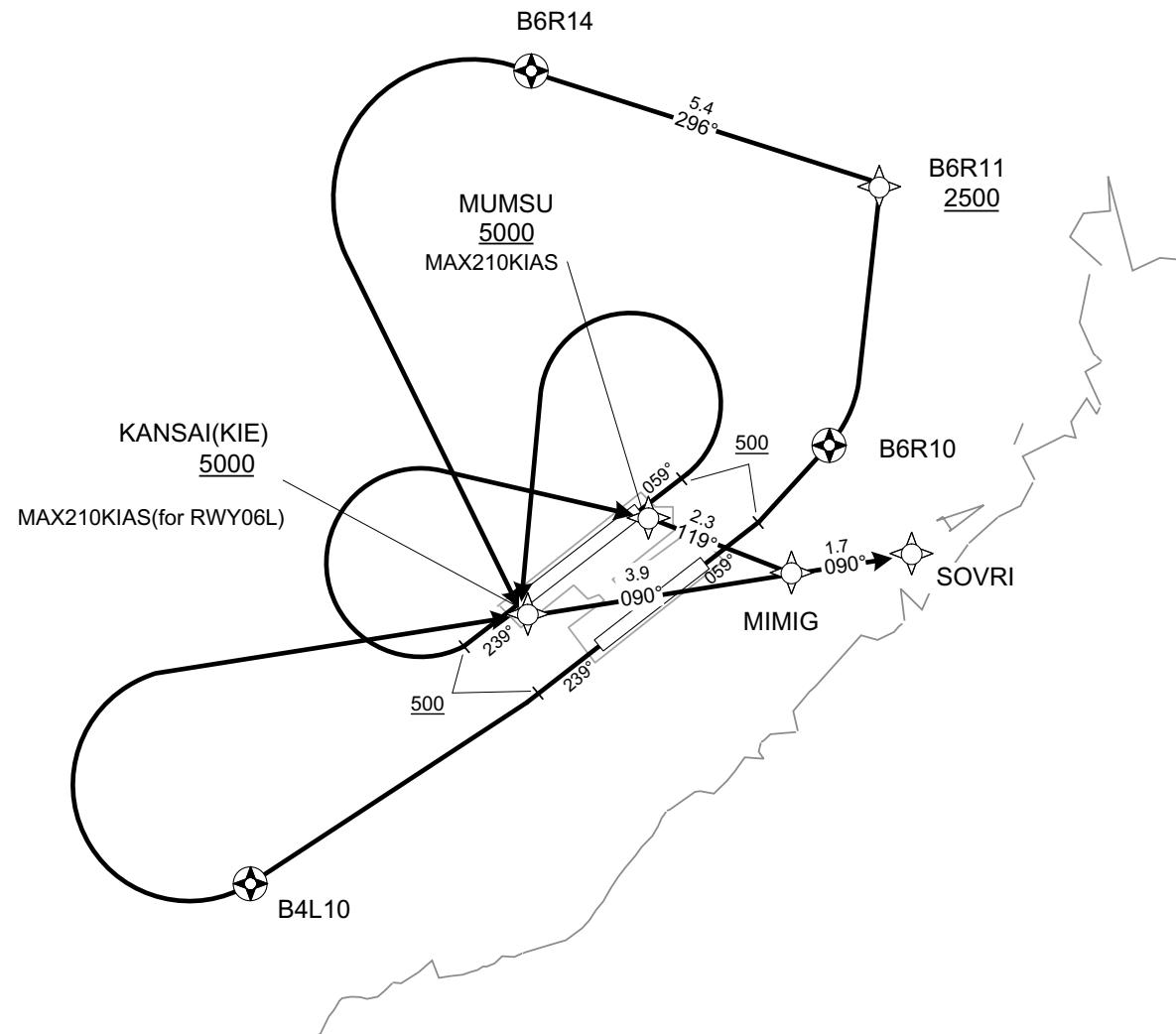
RNAV SID

SOVRI ONE DEPARTURE

RNP1

Note GNSS required.

VAR 8°W



**RWY06R :** Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to KIE at or above 5000FT, to MIMIG, to SOVRI.

**RWY06L :** Climb on HDG059° at or above 500FT, turn left direct to KIE at or above 5000FT, to MIMIG, to SOVRI.

**RWY24R :** Climb on HDG239° at or above 500FT, turn right direct to MUMSU at or above 5000FT, to MIMIG, to SOVRI.

**RWY24L :** Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to KIE at or above 5000FT, to MIMIG, to SOVRI.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

RWY06L/24R : No turn before DER.

CHANGE : New PROC.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

SOVRI ONE DEPARTURE

## RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6R10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	B6R11	—	—	-8.1	—	L	+2500	—	—	RNP1
004	TF	B6R14	Y	296 (287.8)	-8.1	5.4	—	—	—	—	RNP1
005	DF	KIE	—	—	-8.1	—	L	+5000	—	—	RNP1
006	TF	MIMIG	—	090 (081.4)	-8.1	3.9	—	—	—	—	RNP1
007	TF	SOVRI	—	090 (081.5)	-8.1	1.7	—	—	—	—	RNP1

## RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	KIE	—	—	-8.1	—	L	+5000	-210	—	RNP1
003	TF	MIMIG	—	090 (081.4)	-8.1	3.9	—	—	—	—	RNP1
004	TF	SOVRI	—	090 (081.5)	-8.1	1.7	—	—	—	—	RNP1

## RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	MUMSU	—	—	-8.1	—	R	+5000	-210	—	RNP1
003	TF	MIMIG	—	119 (110.8)	-8.1	2.3	—	—	—	—	RNP1
004	TF	SOVRI	—	090 (081.5)	-8.1	1.7	—	—	—	—	RNP1

## RWY24L

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B4L10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	KIE	—	—	-8.1	—	R	+5000	—	—	RNP1
004	TF	MIMIG	—	090 (081.4)	-8.1	3.9	—	—	—	—	RNP1
005	TF	SOVRI	—	090 (081.5)	-8.1	1.7	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	KIE	342532.7N / 1351227.8E
B6R11	343140.8N / 1351845.1E	MUMSU	342656.2N / 1351432.3E
B6R14	343320.1N / 1351229.1E	MIMIG	342607.4N / 1351707.8E
B4L10	342136.9N / 1350734.5E	SOVRI	342622.9N / 1351913.4E

CHANGE : New PROC.

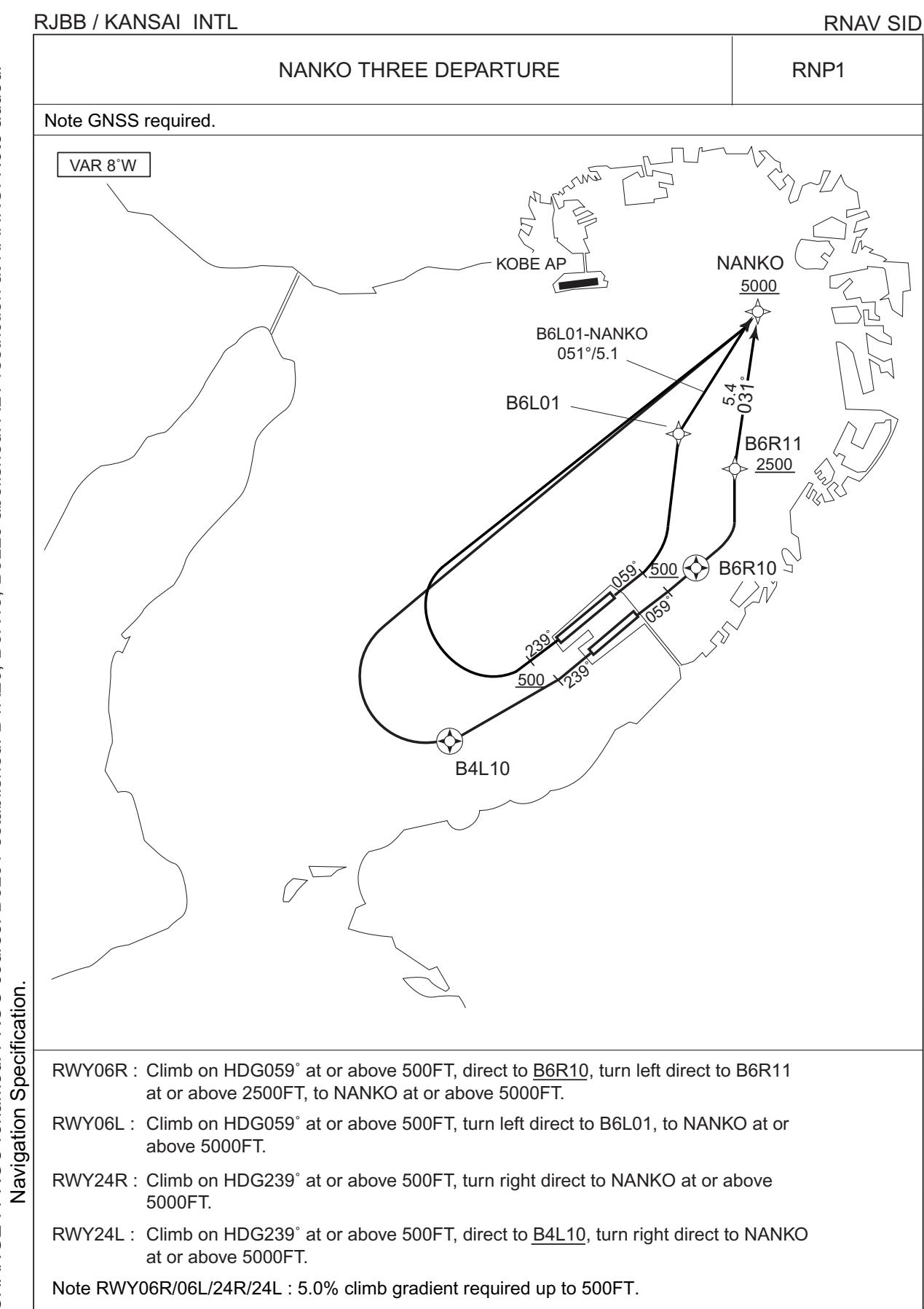
STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL		RNAV TRANSITION																																																												
UPRAL TRANSITION / SHTLE TRANSITION		RNP1																																																												
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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																																																			
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CHANGE : Description of Navigation Specification (RNAV1→RNP1).

## STANDARD DEPARTURE CHART - INSTRUMENT

CHANGE : PROC renamed. PROC course. B6L01 established. B4R20, B6R13, B6L20 abolished. ALT restriction at NANKO. Note added.



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

NANKO THREE DEPARTURE

RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6R10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	B6R11	—	—	-8.1	—	L	+2500	—	—	RNP1
004	TF	NANKO	—	031 (023.3)	-8.1	5.4	—	+5000	—	—	RNP1

RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6L01	—	—	-8.1	—	L	—	—	—	RNP1
003	TF	NANKO	—	051 (043.4)	-8.1	5.1	—	+5000	—	—	RNP1

RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	NANKO	—	—	-8.1	—	R	+5000	—	—	RNP1

RWY24L

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B4L10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	NANKO	—	—	-8.1	—	R	+5000	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	B4L10	342136.9N / 1350734.5E
B6R11	343140.8N / 1351845.1E	NANKO	343638.7N / 1352121.0E
B6L01	343258.4N / 1351708.1E		

CHANGE : PROC renamed. PROC course. B6L01 established. B6R13, B6L20, B4R20 abolished. VAR.  
ALT restriction at NANKO. Navigation Specification. Waypoint Coordinates added.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

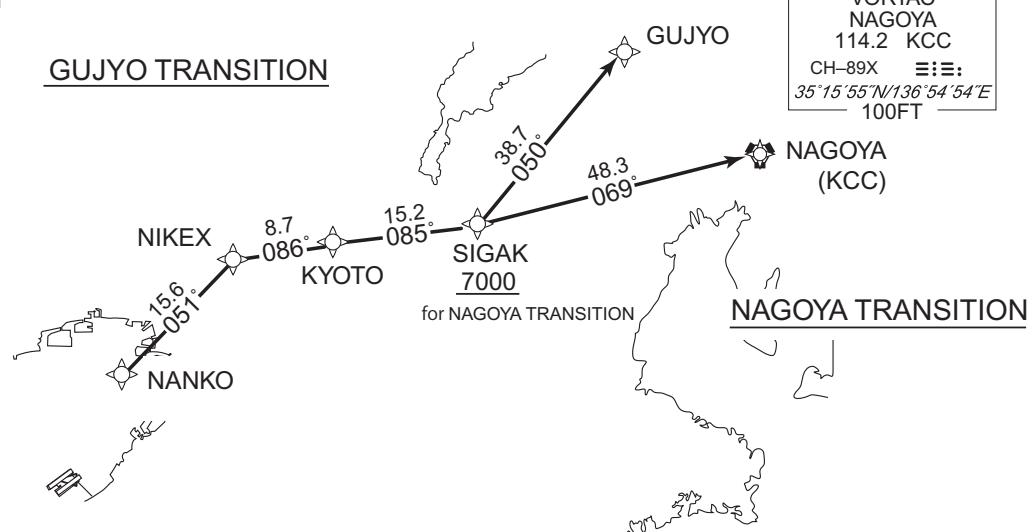
RNAV TRANSITION

GUJYO TRANSITION / NAGOYA TRANSITION

RNP1

Note GNSS required.

VAR 8° W

GUJYO TRANSITION

From NANKO, to NIKEX, to KYOTO, to SIGAK, to GUJYO.

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	NANKO	—	—	-7.9	—	—	—	—	—	RNP1
002	TF	NIKEX	—	051 (043.4)	-7.9	15.6	—	—	—	—	RNP1
003	TF	KYOTO	—	086 (077.7)	-7.9	8.7	—	—	—	—	RNP1
004	TF	SIGAK	—	085 (077.4)	-7.9	15.2	—	—	—	—	RNP1
005	TF	GUJYO	—	050 (042.0)	-7.9	38.7	—	—	—	—	RNP1

NAGOYA TRANSITION

From NANKO, to NIKEX, to KYOTO, to SIGAK at or above 7000FT, to KCC.

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	NANKO	—	—	-7.9	—	—	—	—	—	RNP1
002	TF	NIKEX	—	051 (043.4)	-7.9	15.6	—	—	—	—	RNP1
003	TF	KYOTO	—	086 (077.7)	-7.9	8.7	—	—	—	—	RNP1
004	TF	SIGAK	—	085 (077.4)	-7.9	15.2	—	+7000	—	—	RNP1
005	TF	KCC	—	069 (061.6)	-7.9	48.3	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
NANKO	343638.7N / 1352121.0E	SIGAK	345307.7N / 1360252.7E
NIKEX	344758.7N / 1353424.9E	GUJYO	352150.5N / 1363438.5E
KYOTO	344949.7N / 1354448.8E	KCC	351555.0N / 1365453.7E

CHANGE : GUJYO TRANSITION, NIKEX established. SIGAK TRANSITION, OGURA abolished. Note.  
ALT restriction at SIGAK. Navigation Specification. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

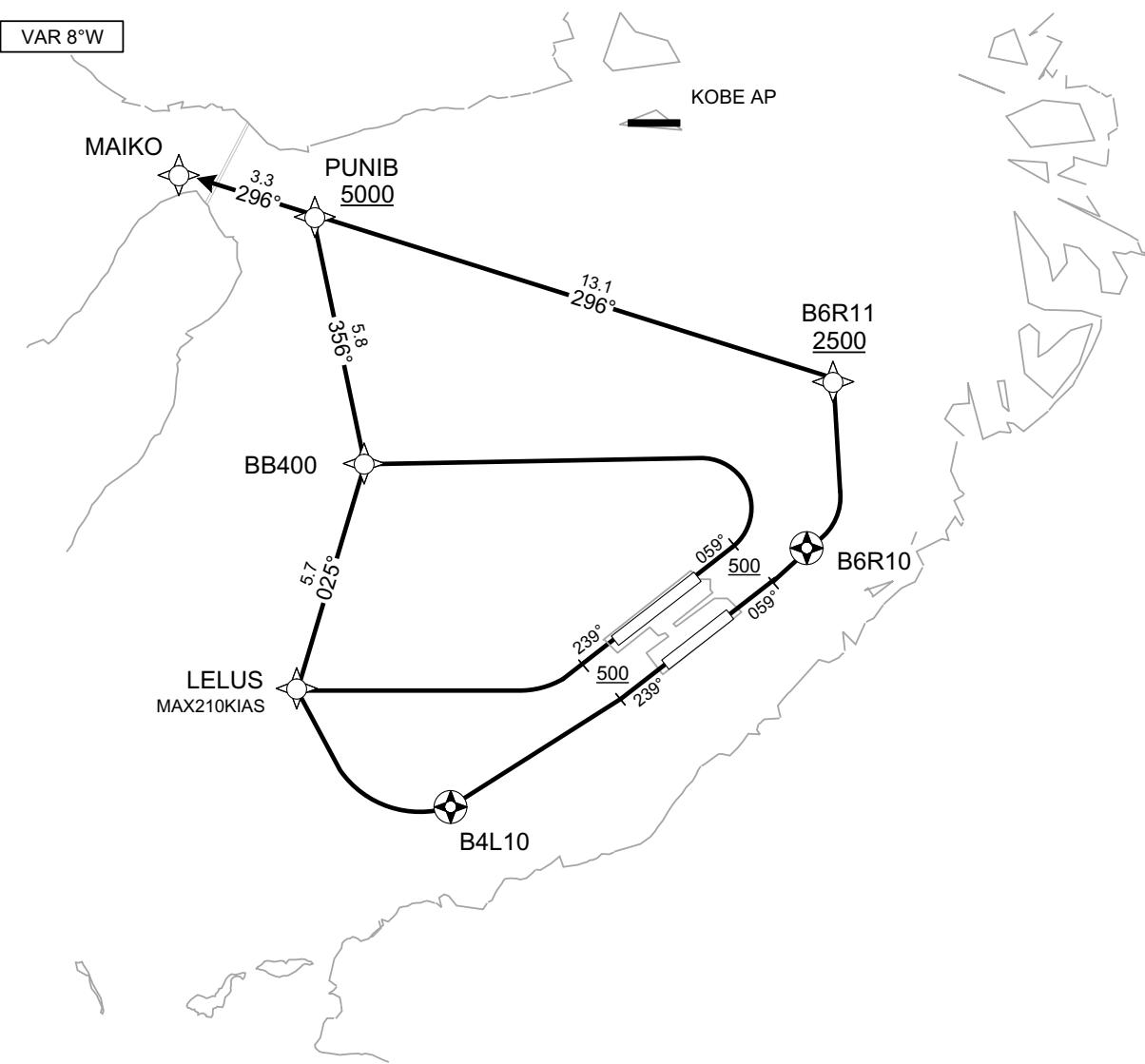
RJBB / KANSAI INTL

RNAV SID

RINKU ONE DEPARTURE

RNP1

Note GNSS required.



RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to PUNIB at or above 5000FT, to MAIKO.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to BB400, to PUNIB at or above 5000FT, to MAIKO.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to BB400, to PUNIB at or above 5000FT, to MAIKO.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to LELUS, to BB400, to PUNIB at or above 5000FT, to MAIKO.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

RINKU ONE DEPARTURE

## RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6R10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	B6R11	—	—	-8.1	—	L	+2500	—	—	RNP1
004	TF	PUNIB	—	296 (287.8)	-8.1	13.1	—	+5000	—	—	RNP1
005	TF	MAIKO	—	296 (287.7)	-8.1	3.3	—	—	—	—	RNP1

## RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	BB400	—	—	-8.1	—	L	—	—	—	RNP1
003	TF	PUNIB	—	356 (347.7)	-8.1	5.8	—	+5000	—	—	RNP1
004	TF	MAIKO	—	296 (287.7)	-8.1	3.3	—	—	—	—	RNP1

## RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	R	—	-210	—	RNP1
003	TF	BB400	—	025 (016.7)	-8.1	5.7	—	—	—	—	RNP1
004	TF	PUNIB	—	356 (347.7)	-8.1	5.8	—	+5000	—	—	RNP1
005	TF	MAIKO	—	296 (287.7)	-8.1	3.3	—	—	—	—	RNP1

## RWY24L

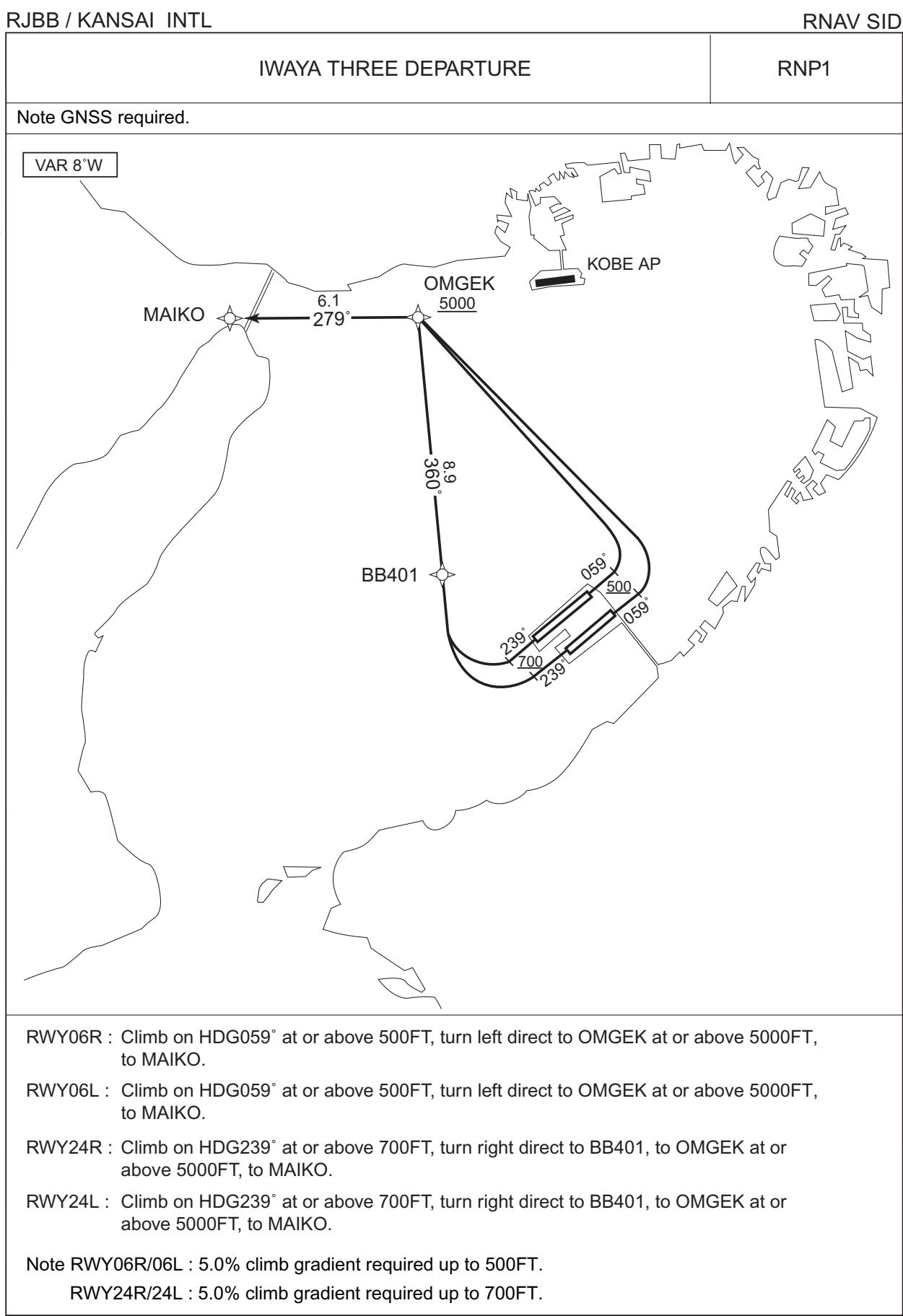
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B4L10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	LELUS	—	—	-8.1	—	R	—	-210	—	RNP1
004	TF	BB400	—	025 (016.7)	-8.1	5.7	—	—	—	—	RNP1
005	TF	PUNIB	—	356 (347.7)	-8.1	5.8	—	+5000	—	—	RNP1
006	TF	MAIKO	—	296 (287.7)	-8.1	3.3	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	BB400	343002.3N / 1350507.5E
B6R11	343140.8N / 1351845.1E	PUNIB	343539.8N / 1350337.8E
B4L10	342136.9N / 1350734.5E	MAIKO	343639.7N 1345949.1E
LELUS	342436.6N / 1350309.3E		

STANDARD DEPARTURE CHART - INSTRUMENT

CHANGE : PROC renamed. PROC course. BB401, OMGEK established. BB430, HELEN abolished.



## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

IWAYA THREE DEPARTURE

## RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	OMGEK	—	—	-8.1	—	L	+5000	—	—	RNP1
003	TF	MAIKO	—	279 (271.4)	-8.1	6.1	—	—	—	—	RNP1

## RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	OMGEK	—	—	-8.1	—	L	+5000	—	—	RNP1
003	TF	MAIKO	—	279 (271.4)	-8.1	6.1	—	—	—	—	RNP1

## RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+700	—	—	RNP1
002	DF	BB401	—	—	-8.1	—	R	—	—	—	RNP1
003	TF	OMGEK	—	360 (351.8)	-8.1	8.9	—	+5000	—	—	RNP1
004	TF	MAIKO	—	279 (271.4)	-8.1	6.1	—	—	—	—	RNP1

## RWY24L

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	—	—	239 (230.9)	-8.1	—	—	+700	—	—	RNP1
002	DF	BB401	—	—	-8.1	—	R	—	—	—	RNP1
003	TF	OMGEK	—	360 (351.8)	-8.1	8.9	—	+5000	—	—	RNP1
004	TF	MAIKO	—	279 (271.4)	-8.1	6.1	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
BB401	342742.8N / 1350844.5E
OMGEK	343631.3N / 1350711.5E
MAIKO	343639.7N / 1345949.1E

CHANGE : PROC renamed. PROC course. BB401, OMGEK established. BB430, HELEN abolished.  
 RWY06R, RWY06L Departure established. VAR. ALT restriction at OMGEK. Navigation Specification. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

CHANGE: SHION N TRANSITION, WASYU N TRANSITION, HABAR N TRANSITION, HABAR TRANSITION, WASYU TRANSITION, SHION TRANSITION established. PROC course. VAR.

SHION N TRANSITION / SOUJA TRANSITION WASYU N TRANSITION / HABAR N TRANSITION											RNP1
Note GNSS required.											
VAR 8° W											
<b>SHION N TRANSITION</b>											
From MAIKO, to OSRIX, to SHION.											
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	MAIKO	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	OSRIX	—	283 (274.6)	-8.1	10.9	—	—	—	—	RNP1
003	TF	SHION	—	252 (244.3)	-8.1	27.2	—	—	—	—	RNP1
<b>SOUJA TRANSITION</b>											
From MAIKO, to OSRIX, to GUMID, to SOUJA.											
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	MAIKO	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	OSRIX	—	283 (274.6)	-8.1	10.9	—	—	—	—	RNP1
003	TF	GUMID	—	273 (265.3)	-8.1	36.4	—	—	—	—	RNP1
004	TF	SOUJA	—	290 (282.2)	-8.1	15.3	—	—	—	—	RNP1
<b>WASYU N TRANSITION</b>											
From MAIKO, to OSRIX, to SHION, to WASYU.											
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	MAIKO	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	OSRIX	—	283 (274.6)	-8.1	10.9	—	—	—	—	RNP1
003	TF	SHION	—	252 (244.3)	-8.1	27.2	—	—	—	—	RNP1
004	TF	WASYU	—	282 (273.6)	-8.1	44.6	—	—	—	—	RNP1
<b>HABAR N TRANSITION</b>											
From MAIKO, to OSRIX, to SHION, to HABAR.											
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	MAIKO	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	OSRIX	—	283 (274.6)	-8.1	10.9	—	—	—	—	RNP1
003	TF	SHION	—	252 (244.3)	-8.1	27.2	—	—	—	—	RNP1
004	TF	HABAR	—	268 (259.4)	-8.1	35.0	—	—	—	—	RNP1

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
MAIKO	343639.7N / 1345949.1E	SOUJA	343738.6N / 1334422.5E
OSRIX	343731.5N / 1344639.1E	WASYU	342817.5N / 1332301.1E
SHION	342542.1N / 1341657.4E	HABAR	341909.7N / 1333519.6E
GUMID	343425.8N / 1340234.0E		

CHANGE : Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

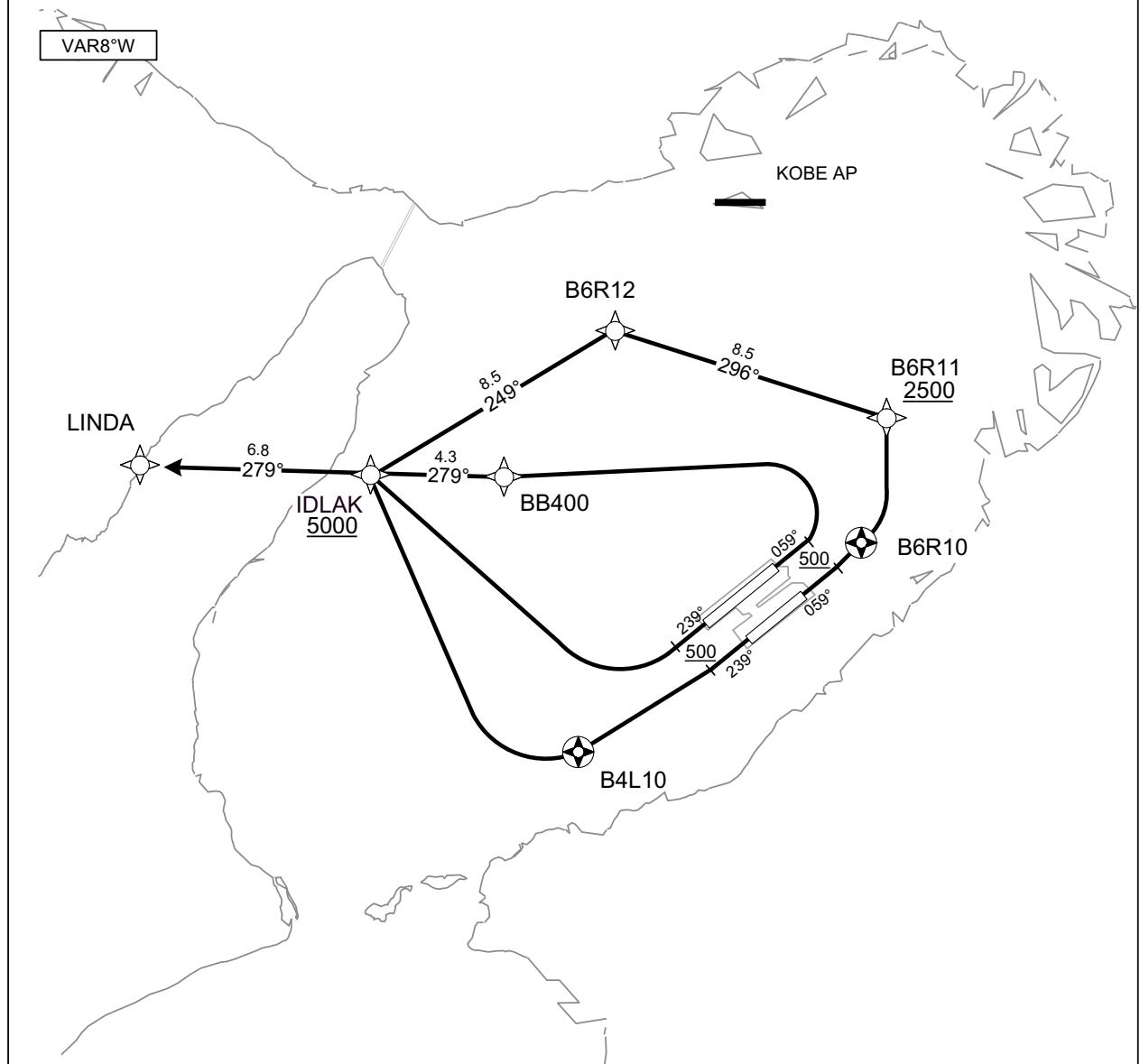
RJBB / KANSAI INTL

RNAV SID

LINDA ONE DEPARTURE

RNP1

Note GNSS required.



**RWY06R :** Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R12, to IDLAK at or above 5000FT, to LINDA.

**RWY06L :** Climb on HDG059° at or above 500FT, turn left direct to BB400, to IDLAK at or above 5000FT, to LINDA.

**RWY24R :** Climb on HDG239° at or above 500FT, turn right direct to IDLAK at or above 5000FT, to LINDA.

**RWY24L :** Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to IDLAK at or above 5000FT, to LINDA.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

LINDA ONE DEPARTURE

## RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6R10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	B6R11	—	—	-8.1	—	L	+2500	—	—	RNP1
004	TF	B6R12	—	296 (287.8)	-8.1	8.5	—	—	—	—	RNP1
005	TF	IDLAK	—	249 (240.6)	-8.1	8.5	—	+5000	—	—	RNP1
006	TF	LINDA	—	279 (271.4)	-8.1	6.8	—	—	—	—	RNP1

## RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	BB400	—	—	-8.1	—	L	—	—	—	RNP1
003	TF	IDLAK	—	279 (270.9)	-8.1	4.3	—	+5000	—	—	RNP1
004	TF	LINDA	—	279 (271.4)	-8.1	6.8	—	—	—	—	RNP1

## RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	IDLAK	—	—	-8.1	—	R	+5000	—	—	RNP1
003	TF	LINDA	—	279 (271.4)	-8.1	6.8	—	—	—	—	RNP1

## RWY24L

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B4L10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	IDLAK	—	—	-8.1	—	R	+5000	—	—	RNP1
004	TF	LINDA	—	279 (271.4)	-8.1	6.8	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	B4L10	342136.9N / 1350734.5E
B6R11	343140.8N / 1351845.1E	IDLAK	343006.2N / 1345953.0E
B6R12	343417.0N / 1350853.1E	LINDA	343015.8N / 1345140.1E
BB400	343002.3N / 1350507.5E		

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL		RNAV TRANSITION																																																																																																																																					
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CHANGE : New PROC.

## STANDARD DEPARTURE CHART - INSTRUMENT

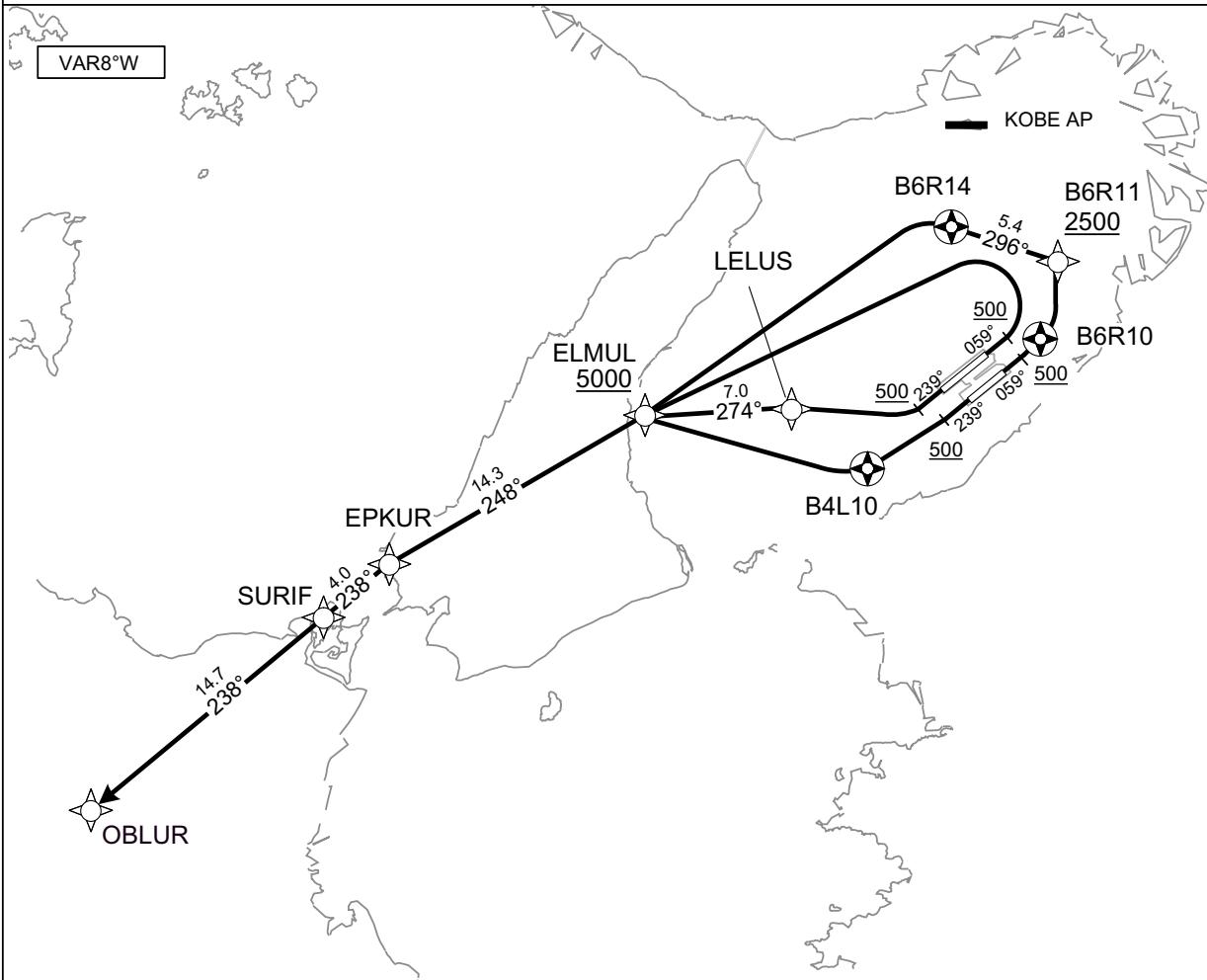
RJBB / KANSAI INTL

RNAV SID

## OBLUR ONE DEPARTURE

RNP1

Note GNSS required.



- RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.
- RWY06L : Climb on HDG059° at or above 500FT, turn left direct to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.
- RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.
- RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

OBLUR ONE DEPARTURE

RWY06R

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6R10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	B6R11	—	—	-8.1	—	L	+2500	—	—	RNP1
004	TF	B6R14	Y	296 (287.8)	-8.1	5.4	—	—	—	—	RNP1
005	DF	ELMUL	—	—	-8.1	—	L	+5000	—	—	RNP1
006	TF	EPKUR	—	248 (240.1)	-8.1	14.3	—	—	—	—	RNP1
007	TF	SURIF	—	238 (230.0)	-8.1	4.0	—	—	—	—	RNP1
008	TF	OBLUR	—	238 (230.0)	-8.1	14.7	—	—	—	—	RNP1

RWY06L

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	ELMUL	—	—	-8.1	—	L	+5000	—	—	RNP1
003	TF	EPKUR	—	248 (240.1)	-8.1	14.3	—	—	—	—	RNP1
004	TF	SURIF	—	238 (230.0)	-8.1	4.0	—	—	—	—	RNP1
005	TF	OBLUR	—	238 (230.0)	-8.1	14.7	—	—	—	—	RNP1

RWY24R

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	R	—	—	—	RNP1
003	TF	ELMUL	—	274 (266.4)	-8.1	7.0	—	+5000	—	—	RNP1
004	TF	EPKUR	—	248 (240.1)	-8.1	14.3	—	—	—	—	RNP1
005	TF	SURIF	—	238 (230.0)	-8.1	4.0	—	—	—	—	RNP1
006	TF	OBLUR	—	238 (230.0)	-8.1	14.7	—	—	—	—	RNP1

RWY24L

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B4L10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	ELMUL	—	—	-8.1	—	R	+5000	—	—	RNP1
004	TF	EPKUR	—	248 (240.1)	-8.1	14.3	—	—	—	—	RNP1
005	TF	SURIF	—	238 (230.0)	-8.1	4.0	—	—	—	—	RNP1
006	TF	OBLUR	—	238 (230.0)	-8.1	14.7	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	ELMUL	342410.0N / 1345444.1E
B6R11	343140.8N / 1351845.1E	EPKUR	341700.9N / 1343944.0E
B6R14	343320.1N / 1351229.1E	SURIF	341426.6N / 1343601.7E
LELUS	342436.6N / 1350309.3E	OBLUR	340459.0N / 1342227.0E
B4L10	342136.9N / 1350734.5E		

CHANGE : New PROC.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

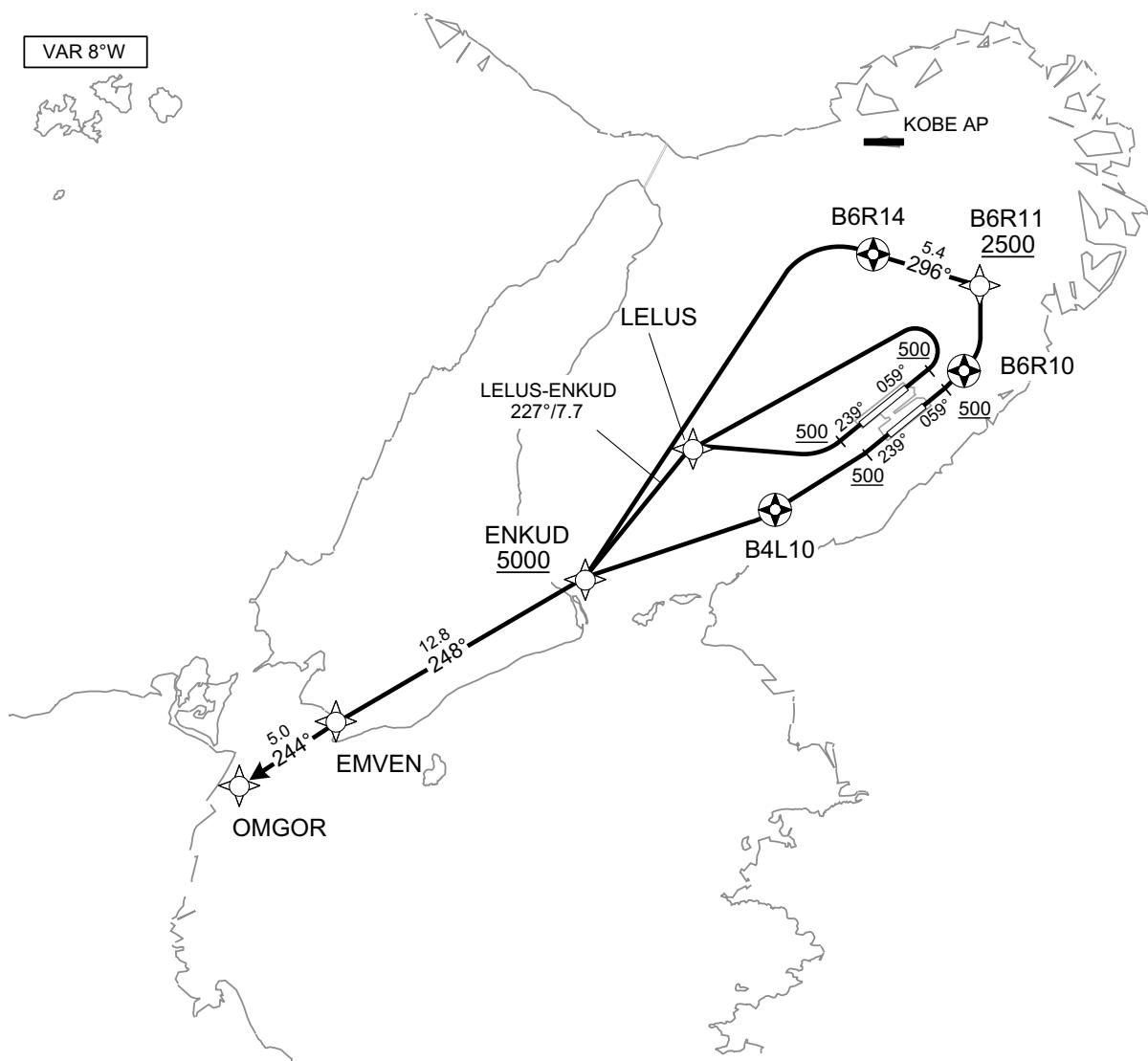
RNAV SID

## OMGOR ONE DEPARTURE

RNP1

Note GNSS required.

VAR 8°W



CHANGE : New PROC.

RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, direct to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

OMGOR ONE DEPARTURE

**RWY06R**

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B6R10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	B6R11	—	—	-8.1	—	L	+2500	—	—	RNP1
004	TF	B6R14	Y	296 (287.8)	-8.1	5.4	—	—	—	—	RNP1
005	DF	ENKUD	—	—	-8.1	—	L	+5000	—	—	RNP1
006	TF	EMVEN	—	248 (240.1)	-8.1	12.8	—	—	—	—	RNP1
007	TF	OMGOR	—	244 (235.6)	-8.1	5.0	—	—	—	—	RNP1

**RWY06L**

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	—	—	059 (050.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	L	—	—	—	RNP1
003	TF	ENKUD	—	227 (218.6)	-8.1	7.7	—	+5000	—	—	RNP1
004	TF	EMVEN	—	248 (240.1)	-8.1	12.8	—	—	—	—	RNP1
005	TF	OMGOR	—	244 (235.6)	-8.1	5.0	—	—	—	—	RNP1

**RWY24R**

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	LELUS	—	—	-8.1	—	R	—	—	—	RNP1
003	TF	ENKUD	—	227 (218.6)	-8.1	7.7	—	+5000	—	—	RNP1
004	TF	EMVEN	—	248 (240.1)	-8.1	12.8	—	—	—	—	RNP1
005	TF	OMGOR	—	244 (235.6)	-8.1	5.0	—	—	—	—	RNP1

**RWY24L**

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	—	—	239 (230.9)	-8.1	—	—	+500	—	—	RNP1
002	DF	B4L10	Y	—	-8.1	—	—	—	—	—	RNP1
003	DF	ENKUD	—	—	-8.1	—	—	+5000	—	—	RNP1
004	TF	EMVEN	—	248 (240.1)	-8.1	12.8	—	—	—	—	RNP1
005	TF	OMGOR	—	244 (235.6)	-8.1	5.0	—	—	—	—	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
B6R10	342759.6N / 1351746.0E	B4L10	342136.9N / 1350734.5E
B6R11	343140.8N / 1351845.1E	ENKUD	341833.8N / 1345719.3E
B6R14	343320.1N / 1351229.1E	EMVEN	341209.7N / 1344353.3E
LELUS	342436.6N / 1350309.3E	OMGOR	340920.3N / 1343854.4E

CHANGE : New PROC.

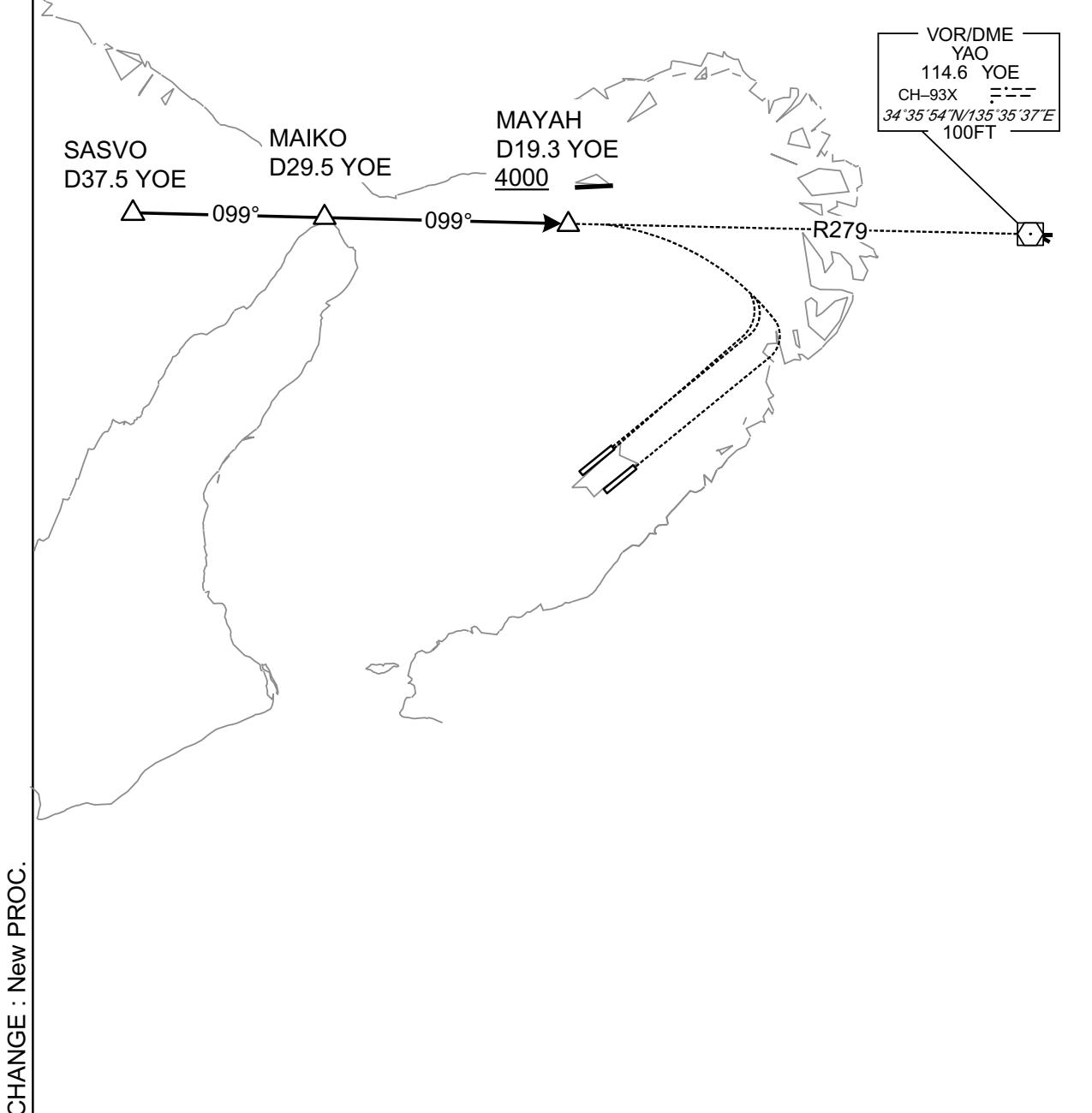
STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

STAR

SASVO ARRIVAL

From over SASVO, proceed via YOE R279 to MAYAH via MAIKO.  
Cross MAYAH at or above 4000FT.



## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

STAR

TOKUSHIMA ARRIVAL

From over TSC VORTAC, proceed via TSC R093 to GATES.  
Cross GATES at or above 4000FT.

VORTAC  
TOKUSHIMA  
114.9 TSC  
CH-96X E:-:  
34°07'47"N/134°36'31"E  
0FT

093°  
GATES  
D10.4 TSC  
4000

VOR/DME  
KANSAI  
111.6 KIE  
CH-53X -:-  
34°25'33"N/135°12'28"E  
0FT

KANSAI  
VOR/DME  
(KIE)  
GATES  
D25.9 KIE  
D31.0 KIE  
MHA 4000/MAX 230KIAS  
056°  
236°  
KIE R236

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

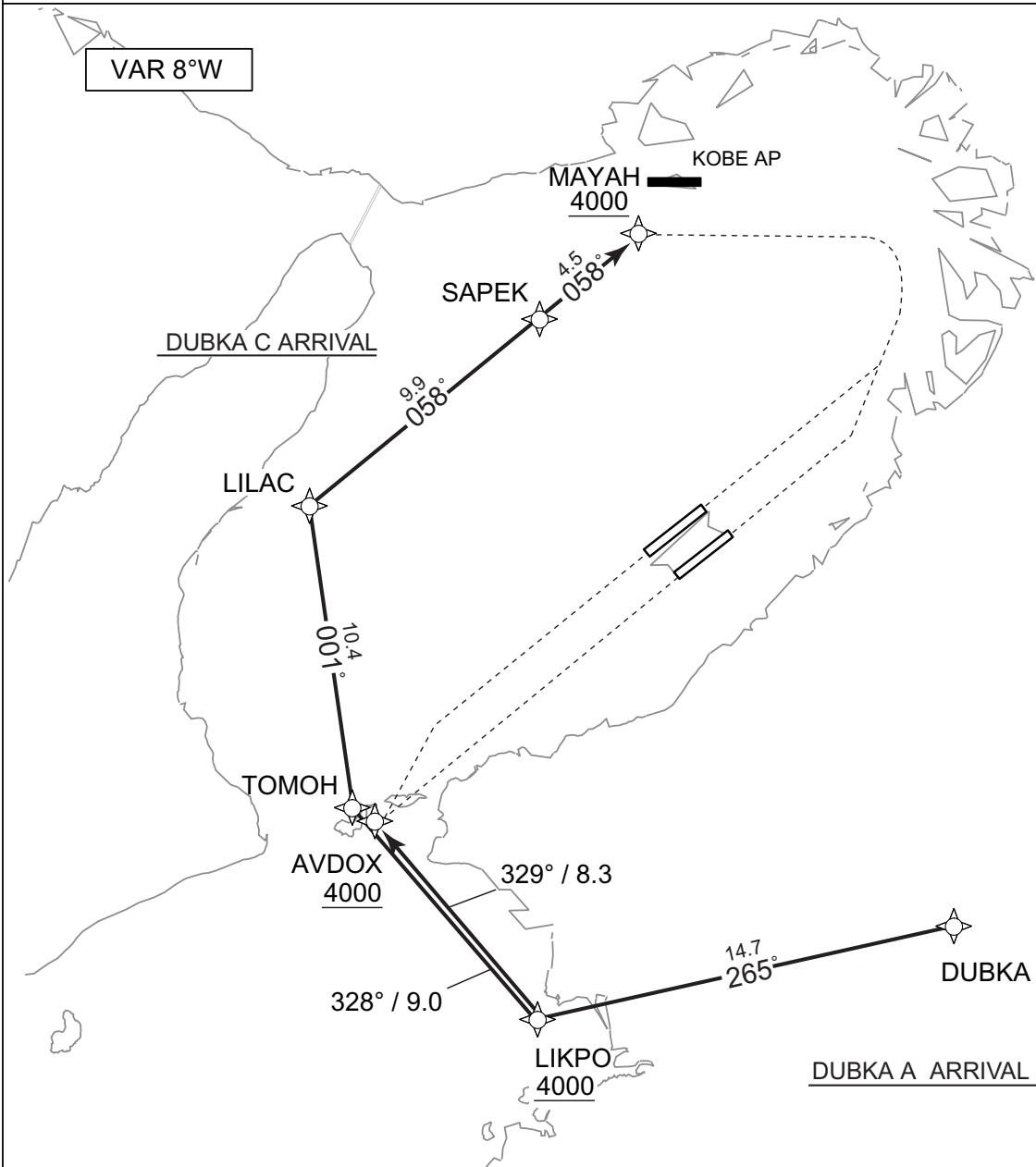
RJBB / KANSAI INTL

RNAV STAR

DUBKA A ARRIVAL  
DUBKA C ARRIVAL

RNP1

Note GNSS required.



CHANGE : New PROC.

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

**LILAC**

NOT TO SCALE

057° 231° MHA 3000

1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO SCALE

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

**DUBKA**

271° 091° MHA 8000

1MIN(at or below FL140)  
1.5MIN(above FL140)

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR

DUBKA A ARRIVAL

From DUBKA, to LIKPO at or above 4000FT, to AVDOX at or above 4000FT.

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	DUBKA	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	LIKPO	—	265 (257.3)	-8.1	14.7	—	+4000	—	—	RNP1
003	TF	AVDOX	—	329 (321.1)	-8.1	8.3	—	+4000	—	—	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	DUBKA	271 (262.6)	-8.1	1.0(-14000) 1.5(+14001)	L	8000	—	-230(-14000) -240(+14001)	RNP1

DUBKA C ARRIVAL

From DUBKA, to LIKPO at or above 4000FT, to TOMOH, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	DUBKA	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	LIKPO	—	265 (257.3)	-8.1	14.7	—	+4000	—	—	RNP1
003	TF	TOMOH	—	328 (320.4)	-8.1	9.0	—	—	—	—	RNP1
004	TF	LILAC	—	001 (352.6)	-8.1	10.4	—	—	—	—	RNP1
005	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
006	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	DUBKA	271 (262.6)	-8.1	1.0(-14000) 1.5(+14001)	L	8000	—	-230(-14000) -240(+14001)	RNP1
Hold	LILAC	057 (049.0)	-8.1	1.0(-14000) 1.5(+14001)	R	3000	—	-230(-14000) -240(+14001)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DUBKA	341309.4N / 1352433.9E	LILAC	342710.7N / 1345842.0E
LIKPO	340955.3N / 1350715.9E	SAPEK	343331.6N / 1350758.6E
AVDOX	341624.1N / 1350055.5E	MAYAH	343623.7N / 1351211.0E
TOMOH	341649.6N / 1350020.3E		

CHANGE : New PROC.

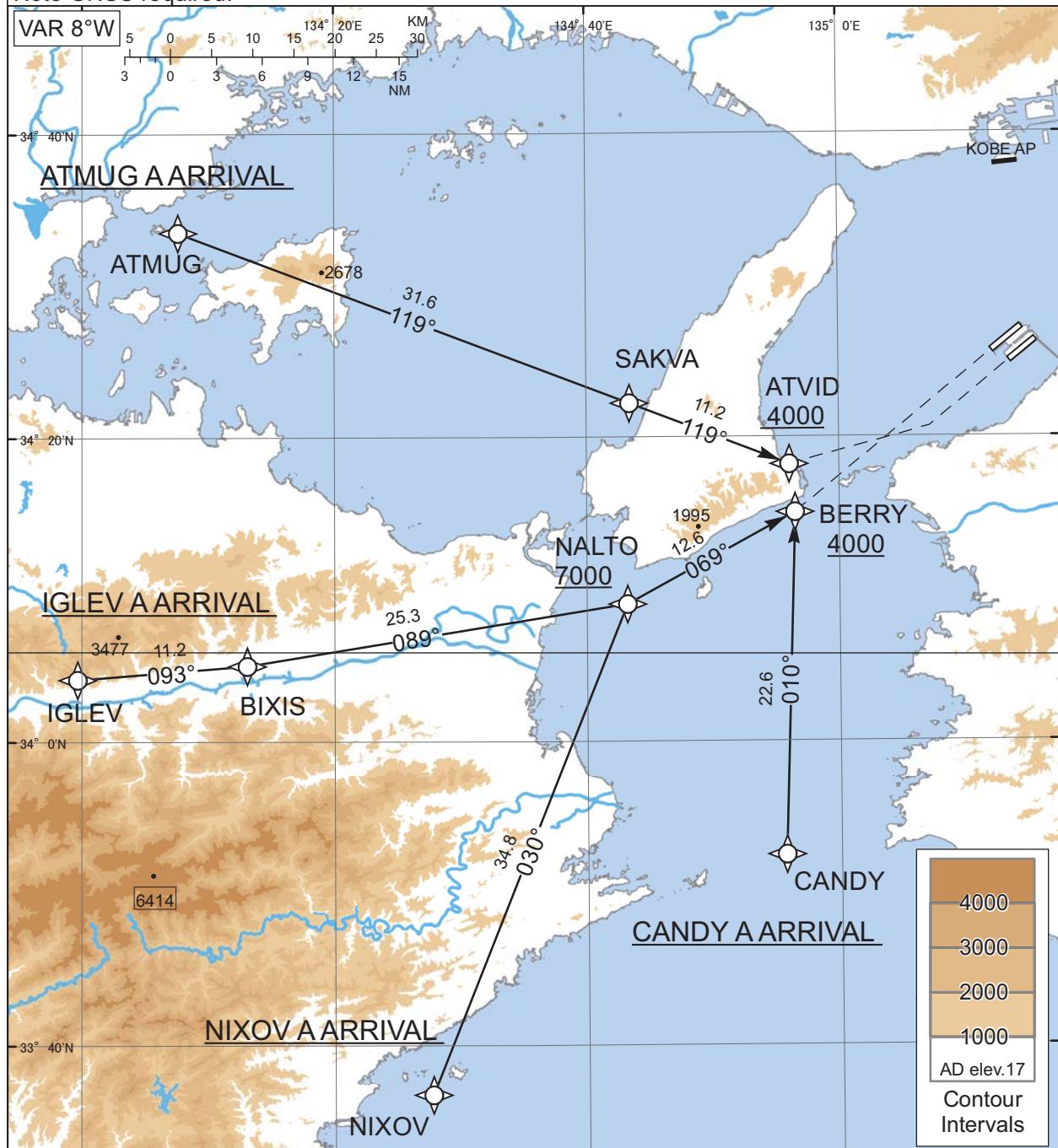
STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

RNP1

Note GNSS required.



CHANGE : New PROC.

NOT TO SCALE

1MIN(at or below FL140)  
1.5MIN(above FL140)

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

180°  
100°

ATMUG  
MHA 10000

NOT TO SCALE

1MIN(at or below FL140)  
1.5MIN(above FL140)

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

273°  
093°

IGLEV  
MHA 11000

NOT TO SCALE

1MIN(at or below FL140)  
1.5MIN(above FL140)

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

244°  
064°

NIXOV  
MHA 9000

NOT TO SCALE

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

322°  
142°

CANDY  
MHA 9000

1MIN(at or below FL140)  
1.5MIN(above FL140)

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

CANDY A ARRIVAL

From CANDY, to BERRY at or above 4000FT.

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	CANDY	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	BERRY	-	010 (001.7)	-8.1	22.6	-	+4000	-	-	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	CANDY	322 (314.0)	-8.1	1.0 (-14000) 1.5 (+14001)	L	9000	-	-230 (-14000) -240 (+14001)	RNP1

NIXOV A ARRIVAL

From NIXOV, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	NIXOV	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	NALTO	-	030 (021.7)	-8.1	34.8	-	+7000	-	-	RNP1
003	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	NIXOV	064 (055.4)	-8.1	1.0 (-14000) 1.5 (+14001)	L	9000	-	-230 (-14000) -240 (+14001)	RNP1

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

IGLEV A ARRIVAL

From IGLEV, to BIXIS, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	IGLEV	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	BIXIS	-	093 (085.3)	-8.1	11.2	-	-	-	-	RNP1
003	TF	NALTO	-	089 (080.7)	-8.1	25.3	-	+7000	-	-	RNP1
004	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	IGLEV	093 (085.2)	-8.1	1.0 (-14000) 1.5 (+14001)	L	11000	-	-230 (-14000) -240 (+14001)	RNP1

ATMUG A ARRIVAL

From ATMUG, to SAKVA, to ATVID at or above 4000FT.

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	ATMUG	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	SAKVA	-	119 (110.7)	-8.1	31.6	-	-	-	-	RNP1
003	TF	ATVID	-	119 (111.1)	-8.1	11.2	-	+4000	-	-	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	ATMUG	181 (172.5)	-8.1	1.0 (-14000) 1.5 (+14001)	R	10000	-	-230 (-14000) -240 (+14001)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
CANDY	335229.8N / 1345541.8E	ATMUG	343330.0N / 1340737.4E
NIXOV	333644.5N / 1342743.1E	SAKVA	342213.8N / 1344325.4E
IGLEV	340405.2N / 1335940.5E	ATVID	341811.4N / 1345605.1E
BIXIS	340459.0N / 1341305.7E		
NALTO	340900.6N / 1344313.3E		
BERRY	341502.0N / 1345631.6E		

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT



STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

DUBKA B ARRIVAL

From DUBKA, to LIKPO, to BOTRA, to BIKLO at 10000FT, to BB650, to BB651, to BB652, to APORA at 10000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	DUBKA	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	LIKPO	-	265 (257.3)	-8.1	14.7	-	-	-	-	RNP1
003	TF	BOTRA	-	219 (211.2)	-8.1	29.6	-	-	-	-	RNP1
004	TF	BIKLO	-	278 (269.7)	-8.1	11.4	-	10000	230	-	RNP1
005	TF	BB650	-	344 (335.5)	-8.1	8.6	-	-	-	-	RNP1
006	TF	BB651	-	321 (313.0)	-8.1	7.6	-	-	-	-	RNP1
007	TF	BB652	-	343 (335.4)	-8.1	7.6	-	-	-	-	RNP1
008	TF	APORA	-	006 (357.7)	-8.1	7.6	-	10000	230	-	RNP1
009	TF	NALTO	-	107 (099.0)	-8.1	19.5	-	+7000	-	-	RNP1
010	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	DUBKA	271 (262.6)	-8.1	1.0 (-14000) 1.5 (+14001)	L	10000	-	-230 (-14000) -240 (+14001)	RNP1
Hold	BOTRA	278 (269.8)	-8.1	1.0 (-14000) 1.5 (+14001)	L	10000	-	-230 (-14000) -240 (+14001)	RNP1

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

EVERT B ARRIVAL

From EVERT, to BOTRA, to BIKLO at 10000FT, to BB650, to BB651, to BB652, to APORA at 10000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	EVERT	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	BOTRA	-	296 (288.3)	-8.1	16.8	-	-	-	-	RNP1
003	TF	BIKLO	-	278 (269.7)	-8.1	11.4	-	10000	230	-	RNP1
004	TF	BB650	-	344 (335.5)	-8.1	8.6	-	-	-	-	RNP1
005	TF	BB651	-	321 (313.0)	-8.1	7.6	-	-	-	-	RNP1
006	TF	BB652	-	343 (335.4)	-8.1	7.6	-	-	-	-	RNP1
007	TF	APORA	-	006 (357.7)	-8.1	7.6	-	10000	230	-	RNP1
008	TF	NALTO	-	107 (099.0)	-8.1	19.5	-	+7000	-	-	RNP1
009	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	BOTRA	278 (269.8)	-8.1	1.0 (-14000) 1.5 (+14001)	L	10000	-	-230 (-14000) -240 (+14001)	RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

NIXOV B ARRIVAL

From NIXOV, to BIKLO at 10000FT, to BB650, to BB651, to BB652, to APORA at 10000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	NIXOV	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	BIKLO	-	047 (038.5)	-8.1	10.0	-	10000	230	-	RNP1
003	TF	BB650	-	344 (335.5)	-8.1	8.6	-	-	-	-	RNP1
004	TF	BB651	-	321 (313.0)	-8.1	7.6	-	-	-	-	RNP1
005	TF	BB652	-	343 (335.4)	-8.1	7.6	-	-	-	-	RNP1
006	TF	APORA	-	006 (357.7)	-8.1	7.6	-	10000	230	-	RNP1
007	TF	NALTO	-	107 (099.0)	-8.1	19.5	-	+7000	-	-	RNP1
008	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	NIXOV	064 (055.4)	-8.1	1.0 (-14000) 1.5 (+14001)	L	10000	-	-230 (-14000) -240 (+14001)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DUBKA	341309.4N / 1352433.9E	BB650	335222.2N / 1343055.0E
LIKPO	340955.3N / 1350715.9E	BB651	335732.9N / 1342412.3E
EVERT	333925.1N / 1350759.1E	BB652	340428.4N / 1342022.2E
BOTRA	334438.7N / 1344851.0E	APORA	341205.5N / 1342000.2E
NIXOV	333644.5N / 1342743.1E	NALTO	340900.6N / 1344313.3E
BIKLO	334434.0N / 1343512.4E	BERRY	341502.0N / 1345631.6E

CHANGE : New PROC.

## **STANDARD ARRIVAL CHART - INSTRUMENT**

RJBB / KANSAI INTL

## RNAV STAR RWY06L/06R

RNP1

Note GNSS required.



CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

IGLEV B ARRIVAL

From IGLEV, to BIXIS at 12000FT, to BB653, to BB654, to BB655, to IGDIN at 12000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	IGLEV	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	BIXIS	-	093 (085.3)	-8.1	11.2	-	12000	230	-	RNP1
003	TF	BB653	-	097 (088.7)	-8.1	8.9	-	-	-	-	RNP1
004	TF	BB654	-	163 (155.4)	-8.1	6.5	-	-	-	-	RNP1
005	TF	BB655	-	141 (132.9)	-8.1	6.4	-	-	-	-	RNP1
006	TF	IGDIN	-	119 (110.4)	-8.1	6.4	-	12000	230	-	RNP1
007	TF	NALTO	-	017 (009.1)	-8.1	16.5	-	+7000	-	-	RNP1
008	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	IGLEV	093 (085.2)	-8.1	1.0 (-14000) 1.5 (+14001)	L	12000	-	-230 (-14000) -240 (+14001)	RNP1

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

ATMUG B ARRIVAL

From ATMUG, to BIXUR at 11000FT, to BB656, to BB657, to BB658, to BB659, to ISNES at 11000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

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	ATMUG	-	-	-8.1	-	-	-	-	-	RNP1
002	TF	BIXUR	-	158 (149.4)	-8.1	15.6	-	11000	230	-	RNP1
003	TF	BB656	-	163 (155.3)	-8.1	9.1	-	-	-	-	RNP1
004	TF	BB657	-	186 (177.7)	-8.1	7.0	-	-	-	-	RNP1
005	TF	BB658	-	163 (155.3)	-8.1	7.0	-	-	-	-	RNP1
006	TF	BB659	-	141 (132.9)	-8.1	7.0	-	-	-	-	RNP1
007	TF	ISNES	-	119 (110.4)	-8.1	7.0	-	11000	230	-	RNP1
008	TF	NALTO	-	017 (009.1)	-8.1	18.0	-	+7000	-	-	RNP1
009	TF	BERRY	-	069 (061.2)	-8.1	12.6	-	+4000	-	-	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	BIXUR	158 (149.5)	-8.1	1.0 (-14000) 1.5 (+14001)	R	11000	-	-230 (-14000) -240 (+14001)	RNP1

Waypoint Coordinates

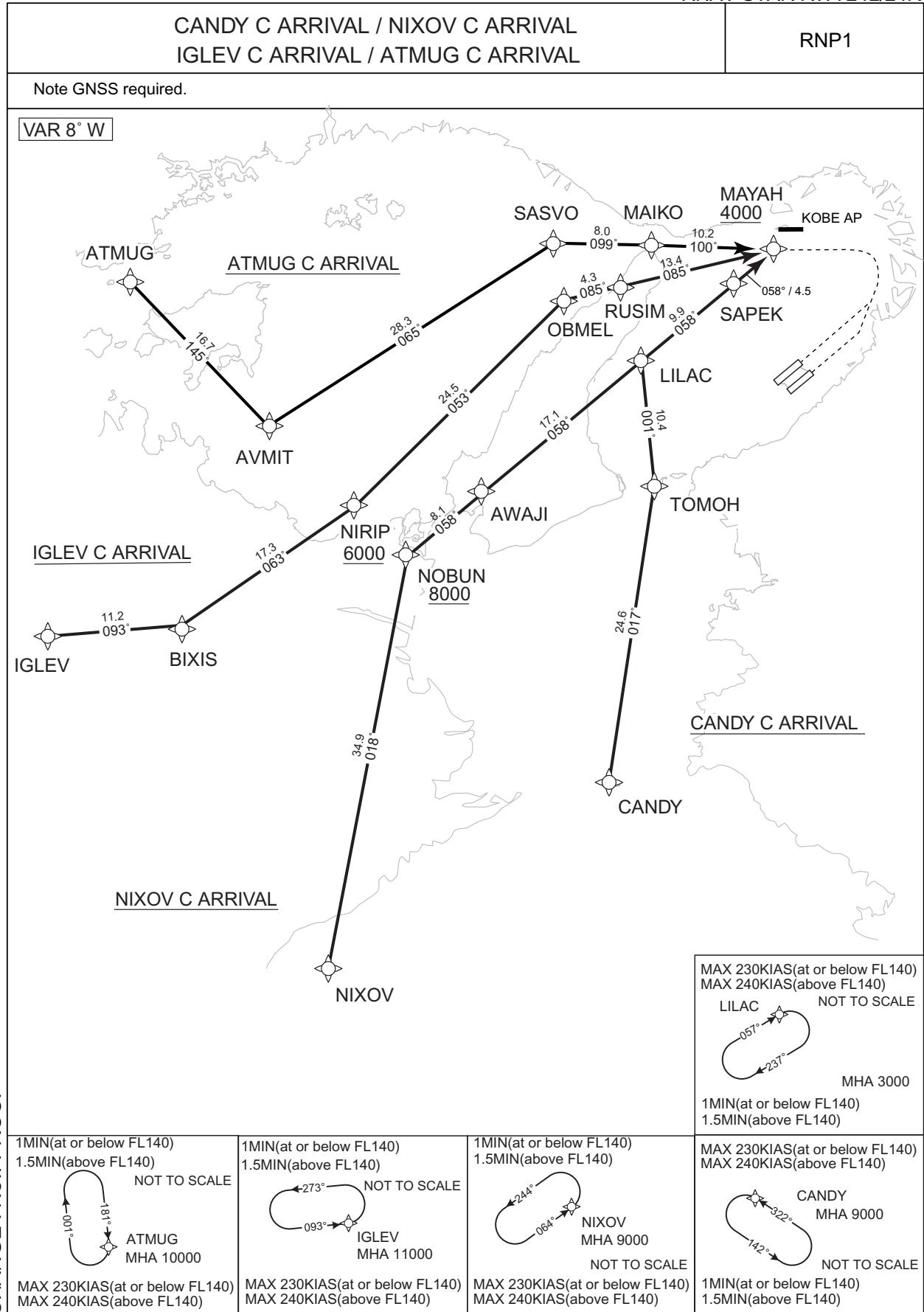
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
IGLEV	340405.2N / 1335940.5E	BB656	341151.4N / 1342147.5E
BIXIS	340459.0N / 1341305.7E	BB657	340449.4N / 1342207.5E
BB653	340510.5N / 1342352.9E	BB658	335825.9N / 1342539.9E
BB654	335918.9N / 1342707.5E	BB659	335339.0N / 1343151.6E
BB655	335455.8N / 1343248.3E	ISNES	335112.0N / 1343946.3E
IGDIN	335241.1N / 1344003.5E	NALTO	340900.6N / 1344313.3E
ATMUG	343330.0N / 1340737.4E	BERRY	341502.0N / 1345631.6E
BIXUR	342006.7N / 1341711.9E		

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R



## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY C ARRIVAL

From CANDY, to TOMOH, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	CANDY	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	TOMOH	—	017 (009.0)	-8.1	24.6	—	—	—	—	RNP1
003	TF	LILAC	—	001 (352.6)	-8.1	10.4	—	—	—	—	RNP1
004	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
005	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	CANDY	322 (314.0)	-8.1	1.0(-14000) 1.5(+14001)	L	9000	—	-230(-14000) -240(+14001)	RNP1
Hold	LILAC	057 (049.0)	-8.1	1.0(-14000) 1.5(+14001)	R	3000	—	-230(-14000) -240(+14001)	RNP1

NIXOV C ARRIVAL

From NIXOV, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	NIXOV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	NOBUN	—	018 (010.4)	-8.1	34.9	—	+8000	—	—	RNP1
003	TF	AWAJI	—	058 (050.0)	-8.1	8.1	—	—	—	—	RNP1
004	TF	LILAC	—	058 (050.1)	-8.1	17.1	—	—	—	—	RNP1
005	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
006	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	NIXOV	064 (055.4)	-8.1	1.0(-14000) 1.5(+14001)	L	9000	—	-230(-14000) -240(+14001)	RNP1
Hold	LILAC	057 (049.0)	-8.1	1.0(-14000) 1.5(+14001)	R	3000	—	-230(-14000) -240(+14001)	RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV C ARRIVAL

From IGLEV, to BIXIS, to NIRIP at or above 6000FT, to OBMEL, to RUSIM, to MAYAH at or above 4000FT.

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	IGLEV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	BIXIS	—	093 (085.3)	-8.1	11.2	—	—	—	—	RNP1
003	TF	NIRIP	—	063 (054.5)	-8.1	17.3	—	+6000	—	—	RNP1
004	TF	OBMEL	—	053 (045.0)	-8.1	24.5	—	—	—	—	RNP1
005	TF	RUSIM	—	085 (076.6)	-8.1	4.3	—	—	—	—	RNP1
006	TF	MAYAH	—	085 (076.6)	-8.1	13.4	—	+4000	—	—	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	IGLEV	093 (085.2)	-8.1	1.0(-14000) 1.5(+14001)	L	11000	—	-230(-14000) -240(+14001)	RNP1

ATMUG C ARRIVAL

From ATMUG, to AVMIT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

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	ATMUG	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	AVMIT	—	145 (136.7)	-8.1	16.7	—	—	—	—	RNP1
003	TF	SASVO	—	065 (056.6)	-8.1	28.3	—	—	—	—	RNP1
004	TF	MAIKO	—	099 (091.3)	-8.1	8.0	—	—	—	—	RNP1
005	TF	MAYAH	—	100 (091.4)	-8.1	10.2	—	+4000	—	—	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	ATMUG	181 (172.5)	-8.1	1.0(-14000) 1.5(+14001)	R	10000	—	-230(-14000) -240(+14001)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
CANDY	335229.8N / 1345541.8E	NIRIP	341501.5N / 1343009.3E
TOMOH	341649.6N / 1350020.3E	OBMEL	343218.2N / 1345112.1E
NIXOV	333644.5N / 1342743.1E	RUSIM	343318.4N / 1345618.9E
NOBUN	341102.6N / 1343518.0E	ATMUG	343330.0N / 1340737.4E
AWAJI	341613.1N / 1344246.6E	AVMIT	342122.5N / 1342128.3E
LILAC	342710.7N / 1345842.0E	SASVO	343651.4N / 1345007.5E
SAPEK	343331.6N / 1350758.6E	MAIKO	343639.7N / 1345949.1E
IGLEV	340405.2N / 1335940.5E	MAYAH	343623.7N / 1351211.0E
BIXIS	340459.0N / 1341305.7E		

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

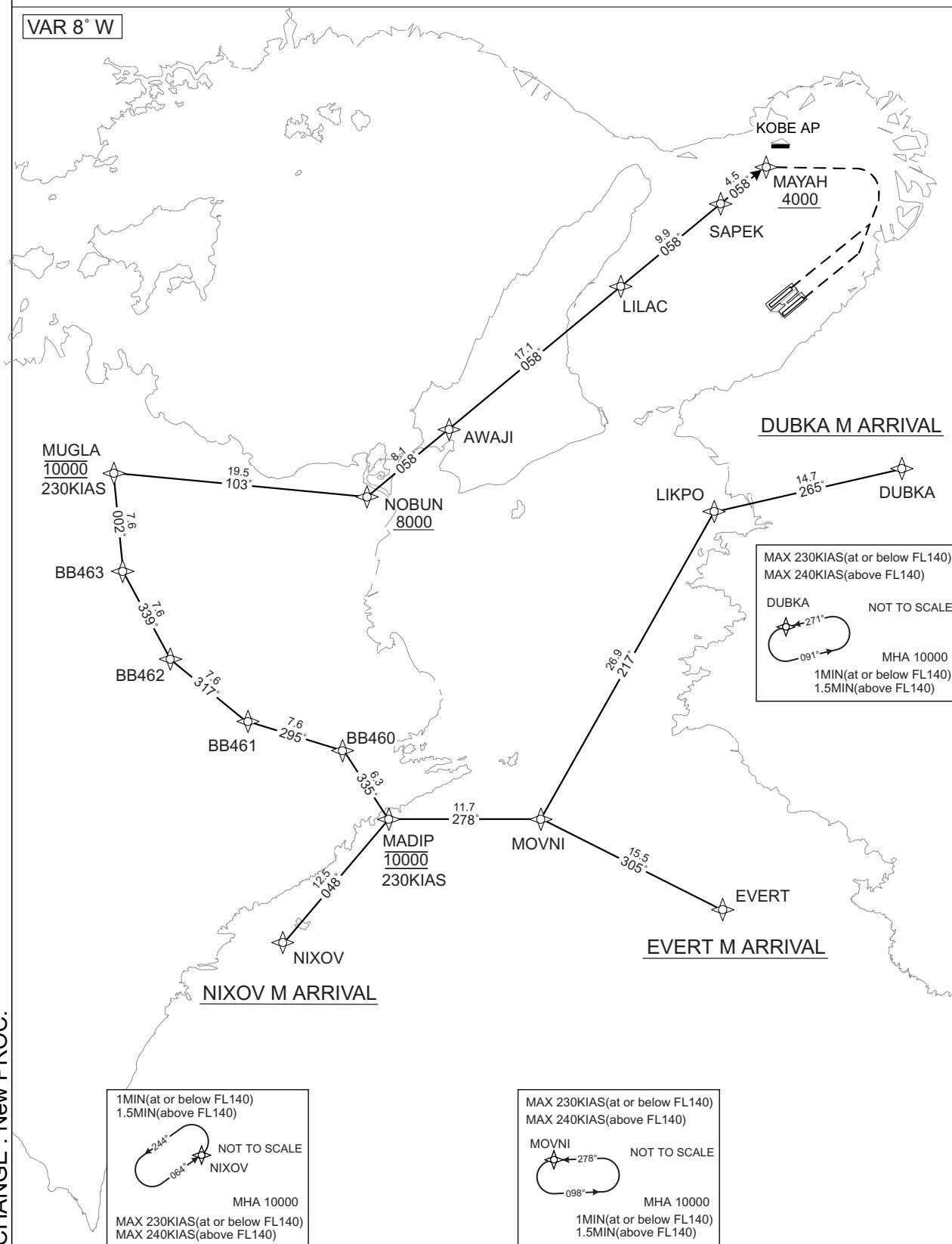
RNAV STAR RWY24L/24R

DUBKA M ARRIVAL / EVERT M ARRIVAL / NIXOV M ARRIVAL

RNP1

Note GNSS required.

VAR 8° W



CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

DUBKA M ARRIVAL

From DUBKA, to LIKPO, to MOVNI, to MADIP at 10000FT, to BB460, to BB461, to BB462, to BB463, to MUGLA at 10000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	DUBKA	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	LIKPO	—	265 (275.3)	-8.1	14.7	—	—	—	—	RNP1
003	TF	MOVNI	—	217 (209.3)	-8.1	26.9	—	—	—	—	RNP1
004	TF	MADIP	—	278 (269.7)	-8.1	11.7	—	10000	230	—	RNP1
005	TF	BB460	—	335 (326.6)	-8.1	6.3	—	—	—	—	RNP1
006	TF	BB461	—	295 (286.5)	-8.1	7.6	—	—	—	—	RNP1
007	TF	BB462	—	317 (308.9)	-8.1	7.6	—	—	—	—	RNP1
008	TF	BB463	—	339 (331.4)	-8.1	7.6	—	—	—	—	RNP1
009	TF	MUGLA	—	002 (353.7)	-8.1	7.6	—	10000	230	—	RNP1
010	TF	NOBUN	—	103 (095.0)	-8.1	19.5	—	+8000	—	—	RNP1
011	TF	AWAJI	—	058 (050.0)	-8.1	8.1	—	—	—	—	RNP1
012	TF	LILAC	—	058 (050.1)	-8.1	17.1	—	—	—	—	RNP1
013	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
014	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	DUBKA	271 (262.6)	-8.1	1.0(-14000) 1.5(+14001)	L	10000	—	-230(-14000) -240(+14001)	RNP1
Hold	MOVNI	278 (269.8)	-8.1	1.0(-14000) 1.5(+14001)	L	10000	—	-230(-14000) -240(+14001)	RNP1

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

EVERT M ARRIVAL

From EVERT, to MOVNI, to MADIP at 10000FT, to BB460, to BB461, to BB462, to BB463, to MUGLA at 10000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	EVERT	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	MOVNI	—	305 (297.0)	-8.1	15.5	—	—	—	—	RNP1
003	TF	MADIP	—	278 (269.7)	-8.1	11.7	—	10000	230	—	RNP1
004	TF	BB460	—	335 (326.6)	-8.1	6.3	—	—	—	—	RNP1
005	TF	BB461	—	295 (286.5)	-8.1	7.6	—	—	—	—	RNP1
006	TF	BB462	—	317 (308.9)	-8.1	7.6	—	—	—	—	RNP1
007	TF	BB463	—	339 (331.4)	-8.1	7.6	—	—	—	—	RNP1
008	TF	MUGLA	—	002 (353.7)	-8.1	7.6	—	10000	230	—	RNP1
009	TF	NOBUN	—	103 (095.0)	-8.1	19.5	—	+8000	—	—	RNP1
010	TF	AWAJI	—	058 (050.0)	-8.1	8.1	—	—	—	—	RNP1
011	TF	LILAC	—	058 (050.1)	-8.1	17.1	—	—	—	—	RNP1
012	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
013	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	MOVNI	278 (269.8)	-8.1	1.0(-14000) 1.5(+14001)	L	10000	—	-230(-14000) -240(+14001)	RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

NIXOV M ARRIVAL

From NIXOV, to MADIP at 10000FT, to BB460, to BB461, to BB462, to BB463, to MUGLA at 10000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, MAYAH at or above 4000FT.

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	NIXOV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	MADIP	—	048 (039.8)	-8.1	12.5	—	10000	230	—	RNP1
003	TF	BB460	—	335 (326.6)	-8.1	6.3	—	—	—	—	RNP1
004	TF	BB461	—	295 (286.5)	-8.1	7.6	—	—	—	—	RNP1
005	TF	BB462	—	317 (308.9)	-8.1	7.6	—	—	—	—	RNP1
006	TF	BB463	—	339 (331.4)	-8.1	7.6	—	—	—	—	RNP1
007	TF	MUGLA	—	002 (353.7)	-8.1	7.6	—	10000	230	—	RNP1
008	TF	NOBUN	—	103 (095.0)	-8.1	19.5	—	+8000		—	RNP1
009	TF	AWAJI	—	058 (050.0)	-8.1	8.1	—	—	—	—	RNP1
010	TF	LILAC	—	058 (050.1)	-8.1	17.1	—	—	—	—	RNP1
011	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
012	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	NIXOV	064 (055.4)	-8.1	1.0(-14000) 1.5(+14001)	L	10000	—	-230(-14000) -240(+14001)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DUBKA	341309.4N / 1352433.9E	BB462	335830.2N / 1341717.3E
LIKPO	340955.3N / 1350715.9E	BB463	340511.2N / 1341252.8E
EVERT	333925.1N / 1350759.1E	MUGLA	341245.9N / 1341152.4E
MOVNI	334625.2N / 1345125.1E	NOBUN	341102.6N / 1343518.0E
NIXOV	333644.5N / 1342743.1E	AWAJI	341613.1N / 1344246.6E
MADIP	334620.7N / 1343721.4E	LILAC	342710.7N / 1345842.0E
BB460	335134.8N / 1343311.5E	SAPEK	343331.6N / 1350758.6E
BB461	335343.6N / 1342425.2E	MAYAH	343623.7N / 1351211.0E

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV M ARRIVAL  
ATMUG M ARRIVAL

RNP1

Note GNSS required.

VAR 8°W

1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO SCALE

MHA11000

MINOS

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)

MINOS

11000

230KIAS

BB467

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STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV M ARRIVAL

From IGLEV, to MIDUX at 12000FT, to BB464, to BB465, to BB466, to SUPOL at 12000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	IGLEV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	MIDUX	—	093 (085.3)	-8.1	5.0	—	12000	230	—	RNP1
003	TF	BB464	—	088 (079.7)	-8.1	9.0	—	—	—	—	RNP1
004	TF	BB465	—	159 (151.3)	-8.1	6.4	—	—	—	—	RNP1
005	TF	BB466	—	137 (128.9)	-8.1	6.4	—	—	—	—	RNP1
006	TF	SUPOL	—	115 (106.4)	-8.1	6.4	—	12000	230	—	RNP1
007	TF	NOBUN	—	013 (005.1)	-8.1	16.5	—	+8000	—	—	RNP1
008	TF	AWAJI	—	058 (050.0)	-8.1	8.1	—	—	—	—	RNP1
009	TF	LILAC	—	058 (050.1)	-8.1	17.1	—	—	—	—	RNP1
010	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
011	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	IGLEV	093 (085.2)	-8.1	1.0(-14000) 1.5(+14001)	L	12000	—	-230(-14000) -240(+14001)	RNP1

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ATMUG M ARRIVAL

From ATMUG, to MINOS at 11000FT, to BB467, to BB468, to BB469, to BB470, to DUMES at 11000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

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	ATMUG	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	MINOS	—	175 (166.5)	-8.1	12.0	—	11000	230	—	RNP1
003	TF	BB467	—	175 (166.5)	-8.1	9.4	—	—	—	—	RNP1
004	TF	BB468	—	182 (173.7)	-8.1	7.0	—	—	—	—	RNP1
005	TF	BB469	—	159 (151.3)	-8.1	7.0	—	—	—	—	RNP1
006	TF	BB470	—	137 (128.9)	-8.1	7.0	—	—	—	—	RNP1
007	TF	DUMES	—	115 (106.4)	-8.1	7.0	—	11000	230	—	RNP1
008	TF	NOBUN	—	013 (005.1)	-8.1	18.1	—	+8000	—	—	RNP1
009	TF	AWAJI	—	058 (050.0)	-8.1	8.1	—	—	—	—	RNP1
010	TF	LILAC	—	058 (050.1)	-8.1	17.1	—	—	—	—	RNP1
011	TF	SAPEK	—	058 (050.3)	-8.1	9.9	—	—	—	—	RNP1
012	TF	MAYAH	—	058 (050.3)	-8.1	4.5	—	+4000	—	—	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	MINOS	175 (166.5)	-8.1	1.0(-14000) 1.5(+14001)	R	11000	— -230(-14000) -240(+14001)	RNP1	

Waypoint Coordinates

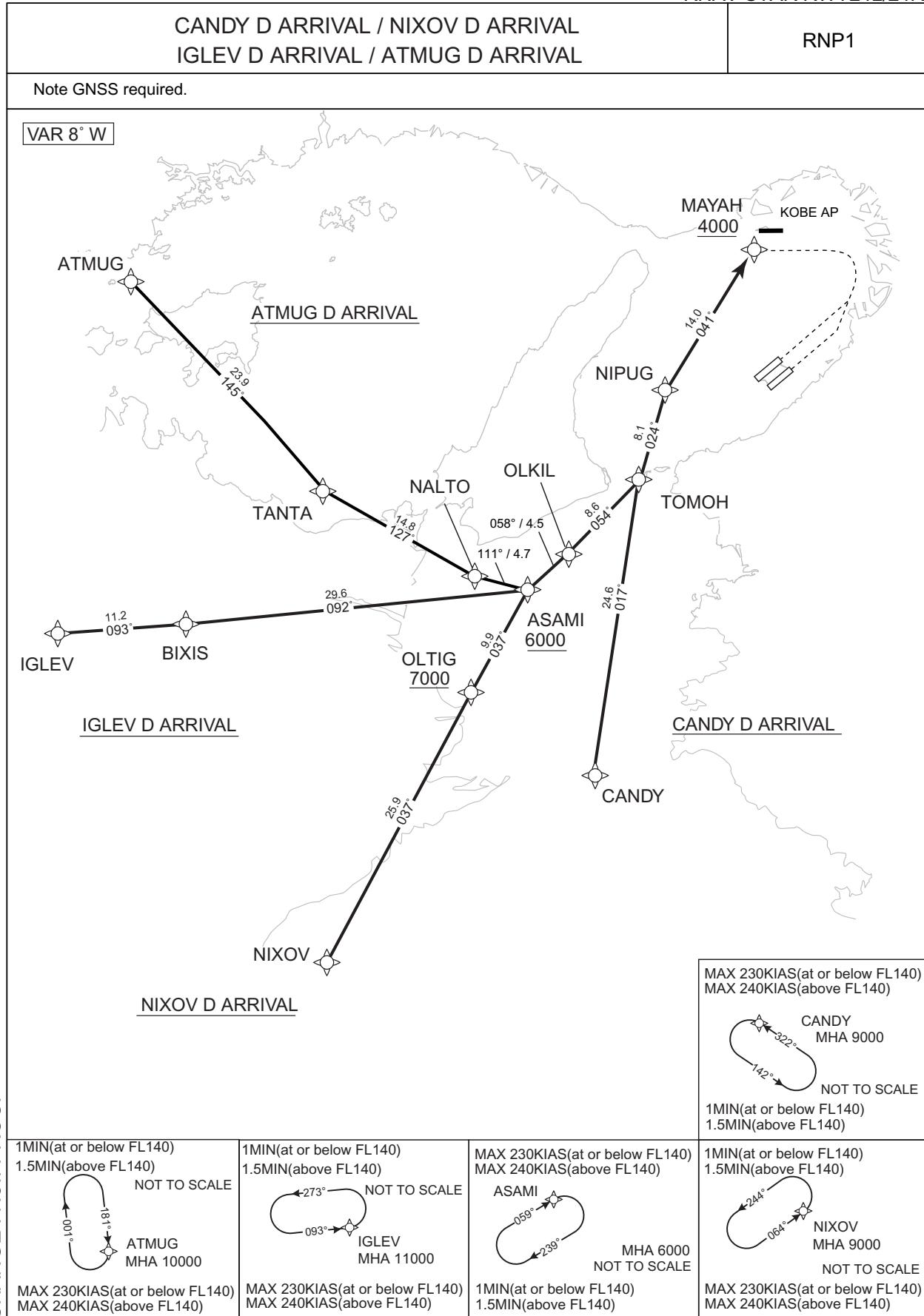
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
IGLEV	340405.2N / 1335940.5E	BB468	340538.4N / 1341436.2E
MIDUX	340429.4N / 1340540.6E	BB469	335928.2N / 1341840.3E
BB464	340605.5N / 1341619.6E	BB470	335503.6N / 1342515.3E
BB465	340026.1N / 1342003.2E	DUMES	335304.7N / 1343321.2E
BB466	335623.6N / 1342605.4E	NOBUN	341102.6N / 1343518.0E
SUPOL	335434.5N / 1343330.9E	AWAJI	341613.1N / 1344246.6E
ATMUG	343330.0N / 1340737.4E	LILAC	342710.7N / 1345842.0E
MINOS	342149.0N / 1341101.2E	SAPEK	343331.6N / 1350758.6E
BB467	341238.1N / 1341340.6E	MAYAH	343623.7N / 1351211.0E

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R



## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY D ARRIVAL

From CANDY, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

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	CANDY	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	TOMOH	—	017 (009.0)	-8.1	24.6	—	—	—	—	RNP1
003	TF	NIPUG	—	024 (016.2)	-8.1	8.1	—	—	—	—	RNP1
004	TF	MAYAH	—	041 (032.4)	-8.1	14.0	—	+4000	—	—	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	CANDY	322 (314.0)	-8.1	1.0(-14000) 1.5(+14001)	L	9000	—	-230(-14000) -240(+14001)	RNP1

NIXOV D ARRIVAL

From NIXOV, to OLTIG at or above 7000FT, to ASAMI at or above 6000FT, to OLKIL, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

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	NIXOV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	OLTIG	—	037 (029.1)	-8.1	25.9	—	+7000	—	—	RNP1
003	TF	ASAMI	—	037 (029.2)	-8.1	9.9	—	+6000	—	—	RNP1
004	TF	OLKIL	—	058 (049.9)	-8.1	4.5	—	—	—	—	RNP1
005	TF	TOMOH	—	054 (046.0)	-8.1	8.6	—	—	—	—	RNP1
006	TF	NIPUG	—	024 (016.2)	-8.1	8.1	—	—	—	—	RNP1
007	TF	MAYAH	—	041 (032.4)	-8.1	14.0	—	+4000	—	—	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	NIXOV	064 (055.4)	-8.1	1.0(-14000) 1.5(+14001)	L	9000	—	-230(-14000) -240(+14001)	RNP1
Hold	ASAMI	059 (050.5)	-8.1	1.0(-14000) 1.5(+14001)	R	6000	—	-230(-14000) -240(+14001)	RNP1

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV D ARRIVAL

From IGLEV, to BIXIS, to ASAMI at or above 6000FT, to OLKIL, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

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	IGLEV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	BIXIS	—	093 (085.3)	-8.1	11.2	—	—	—	—	RNP1
003	TF	ASAMI	—	092 (084.1)	-8.1	29.6	—	+6000	—	—	RNP1
004	TF	OLKIL	—	058 (049.9)	-8.1	4.5	—	—	—	—	RNP1
005	TF	TOMOH	—	054 (046.0)	-8.1	8.6	—	—	—	—	RNP1
006	TF	NIPUG	—	024 (016.2)	-8.1	8.1	—	—	—	—	RNP1
007	TF	MAYAH	—	041 (032.4)	-8.1	14.0	—	+4000	—	—	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	IGLEV	093 (085.2)	-8.1	1.0(-14000) 1.5(+14001)	L	11000	—	-230(-14000) -240(+14001)	RNP1		
Hold	ASAMI	059 (050.5)	-8.1	1.0(-14000) 1.5(+14001)	R	6000	—	-230(-14000) -240(+14001)	RNP1		

ATMUG D ARRIVAL

From ATMUG, to TANTA, to NALTO, to ASAMI at or above 6000FT, to OLKIL, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

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	ATMUG	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	TANTA	—	145 (136.7)	-8.1	23.9	—	—	—	—	RNP1
003	TF	NALTO	—	127 (118.4)	-8.1	14.8	—	—	—	—	RNP1
004	TF	ASAMI	—	111 (103.0)	-8.1	4.7	—	+6000	—	—	RNP1
005	TF	OLKIL	—	058 (049.9)	-8.1	4.5	—	—	—	—	RNP1
006	TF	TOMOH	—	054 (046.0)	-8.1	8.6	—	—	—	—	RNP1
007	TF	NIPUG	—	024 (016.2)	-8.1	8.1	—	—	—	—	RNP1
008	TF	MAYAH	—	041 (032.4)	-8.1	14.0	—	+4000	—	—	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	ATMUG	181 (172.5)	-8.1	1.0(-14000) 1.5(+14001)	R	10000	—	-230(-14000) -240(+14001)	RNP1		
Hold	ASAMI	059 (050.5)	-8.1	1.0(-14000) 1.5(+14001)	R	6000	—	-230(-14000) -240(+14001)	RNP1		

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
CANDY	335229.8N / 1345541.8E	NALTO	340900.6N / 1344313.3E
NIXOV	333644.5N / 1342743.1E	ASAMI	340757.9N / 1344841.8E
OLTIG	335922.2N / 1344253.6E	OLKIL	341051.4N / 1345251.0E
IGLEV	340405.2N / 1335940.5E	TOMOH	341649.6N / 1350020.3E
BIXIS	340459.0N / 1341305.7E	NIPUG	342434.7N / 1350304.1E
ATMUG	343330.0N / 1340737.4E	MAYAH	343623.7N / 1351211.0E
TANTA	341604.9N / 1342729.2E		

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

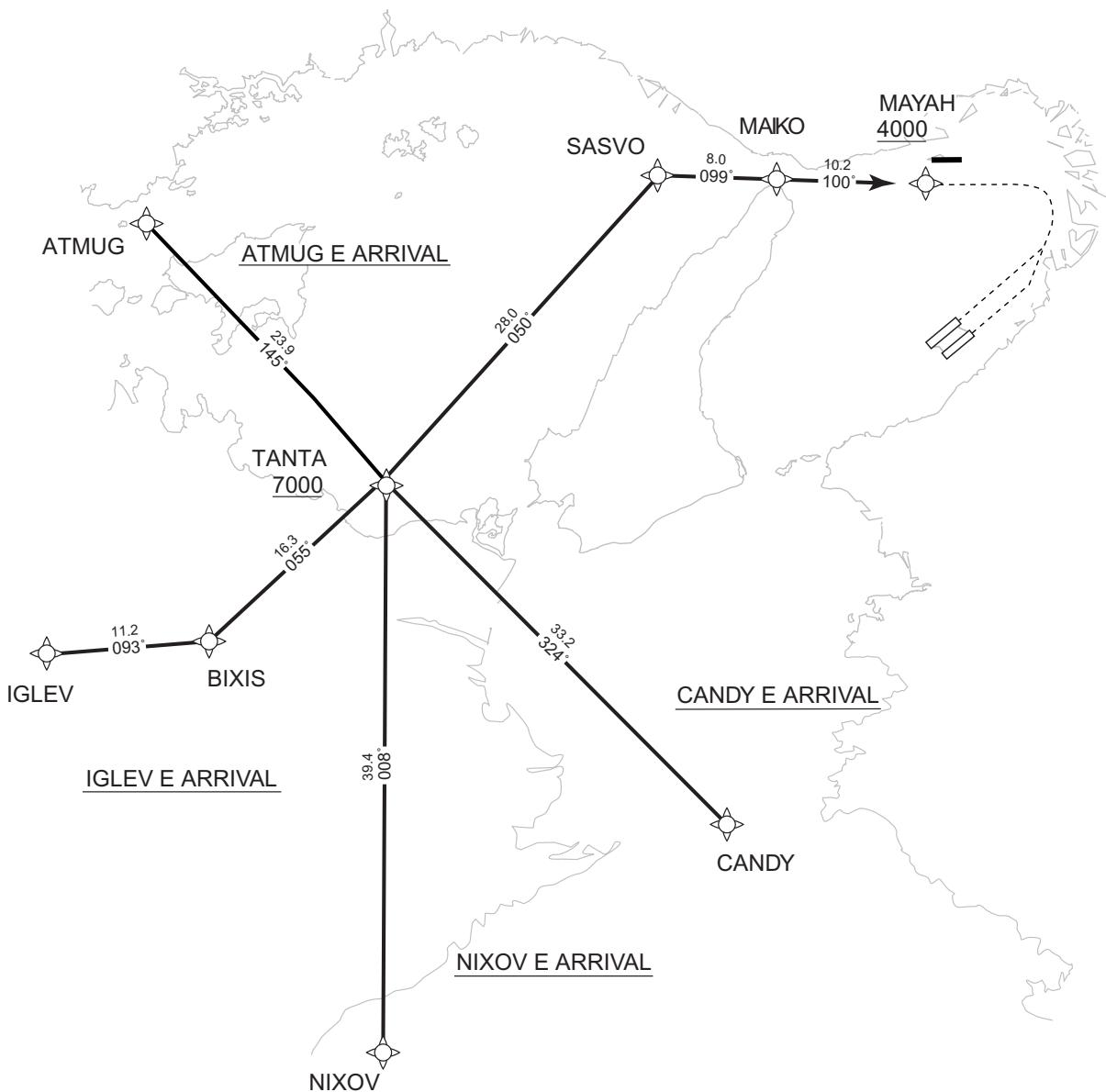
RNAV STAR RWY24L/24R

CANDY E ARRIVAL / NIXOV E ARRIVAL  
IGLEV E ARRIVAL / ATMUG E ARRIVAL

RNP1

Note GNSS required.

VAR 8° W



CHANGE : New PROC.

1MIN(at or below FL140) 1.5MIN(above FL140) NOT TO SCALE  ATMUG MHA 10000  MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)	1MIN(at or below FL140) 1.5MIN(above FL140) NOT TO SCALE  IGLEV MHA 11000  MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)	1MIN(at or below FL140) 1.5MIN(above FL140) NOT TO SCALE  NIXOV MHA 9000  MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)	MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140)  CANDY MHA 9000  NOT TO SCALE  1MIN(at or below FL140) 1.5MIN(above FL140)
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STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY E ARRIVAL

From CANDY, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

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	CANDY	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	TANTA	—	324 (315.4)	-8.1	33.2	—	+7000	—	—	RNP1
003	TF	SASVO	—	050 (041.8)	-8.1	28.0	—	—	—	—	RNP1
004	TF	MAIKO	—	099 (091.3)	-8.1	8.0	—	—	—	—	RNP1
005	TF	MAYAH	—	100 (091.4)	-8.1	10.2	—	+4000	—	—	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	CANDY	322 (314.0)	-8.1	1.0(-14000) 1.5(+14001)	L	9000	—	-230(-14000) -240(+14001)	RNP1

NIXOV E ARRIVAL

From NIXOV, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

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	NIXOV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	TANTA	—	008 (359.7)	-8.1	39.4	—	+7000	—	—	RNP1
003	TF	SASVO	—	050 (041.8)	-8.1	28.0	—	—	—	—	RNP1
004	TF	MAIKO	—	099 (091.3)	-8.1	8.0	—	—	—	—	RNP1
005	TF	MAYAH	—	100 (091.4)	-8.1	10.2	—	+4000	—	—	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	NIXOV	064 (055.4)	-8.1	1.0(-14000) 1.5(+14001)	L	9000	—	-230(-14000) -240(+14001)	RNP1

CHANGE : New PROC.

## STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV E ARRIVAL

From IGLEV, to BIXIS, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

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	IGLEV	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	BIXIS	—	093 (085.3)	-8.1	11.2	—	—	—	—	RNP1
003	TF	TANTA	—	055 (046.9)	-8.1	16.3	—	+7000	—	—	RNP1
004	TF	SASVO	—	050 (041.8)	-8.1	28.0	—	—	—	—	RNP1
005	TF	MAIKO	—	099 (091.3)	-8.1	8.0	—	—	—	—	RNP1
006	TF	MAYAH	—	100 (091.4)	-8.1	10.2	—	+4000	—	—	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	IGLEV	093 (085.2)	-8.1	1.0(-14000) 1.5(+14001)	L	11000	—	-230(-14000) -240(+14001)	RNP1

ATMUG E ARRIVAL

From ATMUG, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

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	ATMUG	—	—	-8.1	—	—	—	—	—	RNP1
002	TF	TANTA	—	145 (136.7)	-8.1	23.9	—	+7000	—	—	RNP1
003	TF	SASVO	—	050 (041.8)	-8.1	28.0	—	—	—	—	RNP1
004	TF	MAIKO	—	099 (091.3)	-8.1	8.0	—	—	—	—	RNP1
005	TF	MAYAH	—	100 (091.4)	-8.1	10.2	—	+4000	—	—	RNP1

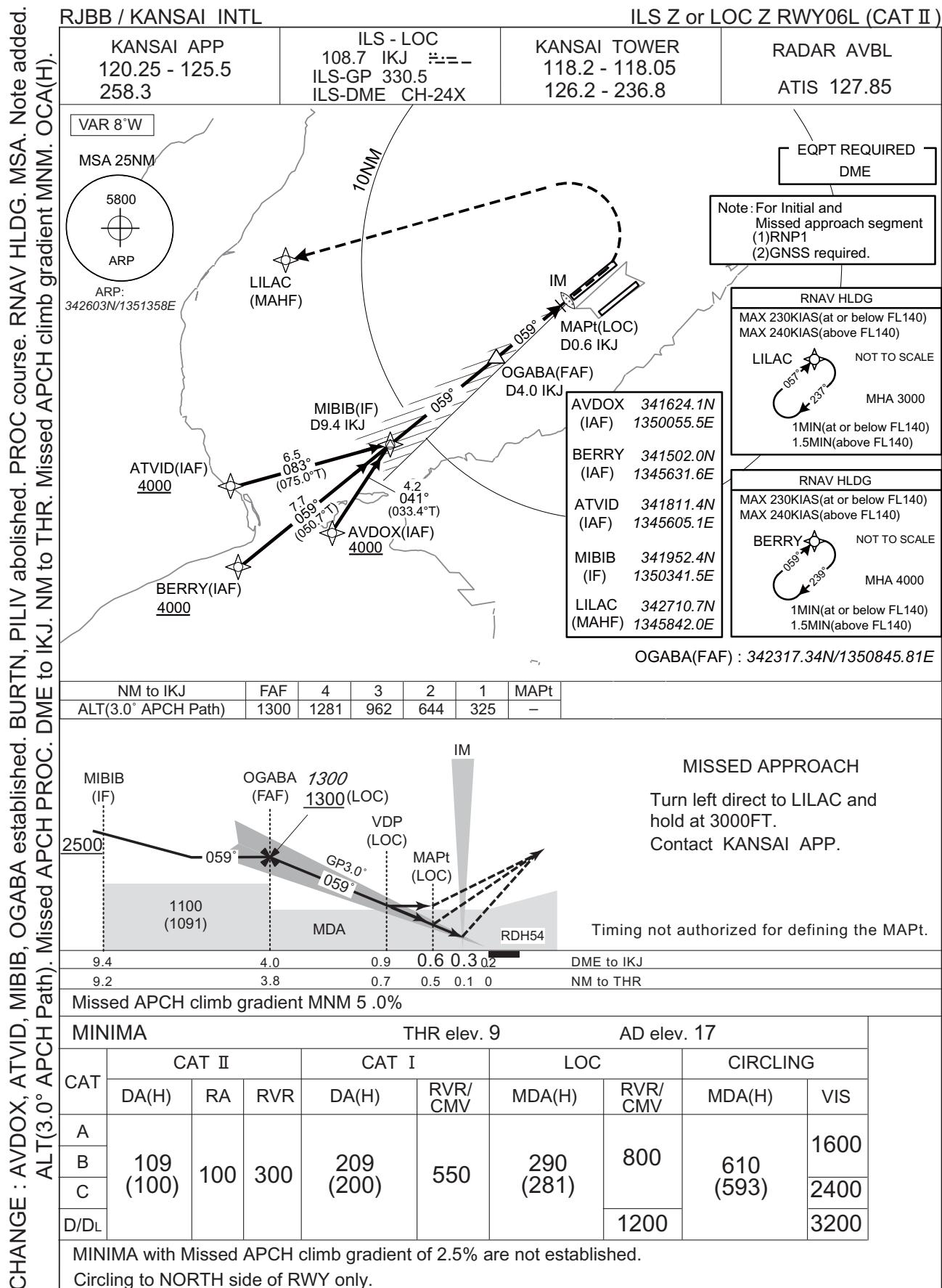
Path	Waypoint Identifier	Inbound Course °M('T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	ATMUG	181 (172.5)	-8.1	1.0(-14000) 1.5(+14001)	R	10000	—	-230(-14000) -240(+14001)	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
CANDY	335229.8N / 1345541.8E	TANTA	341604.9N / 1342729.2E
NIXOV	333644.5N / 1342743.1E	SASVO	343651.4N / 1345007.5E
IGLEV	340405.2N / 1335940.5E	MAIKO	343639.7N / 1345949.1E
BIXIS	340459.0N / 1341305.7E	MAYAH	343623.7N / 1351211.0E
ATMUG	343330.0N / 1340737.4E		

CHANGE : New PROC.

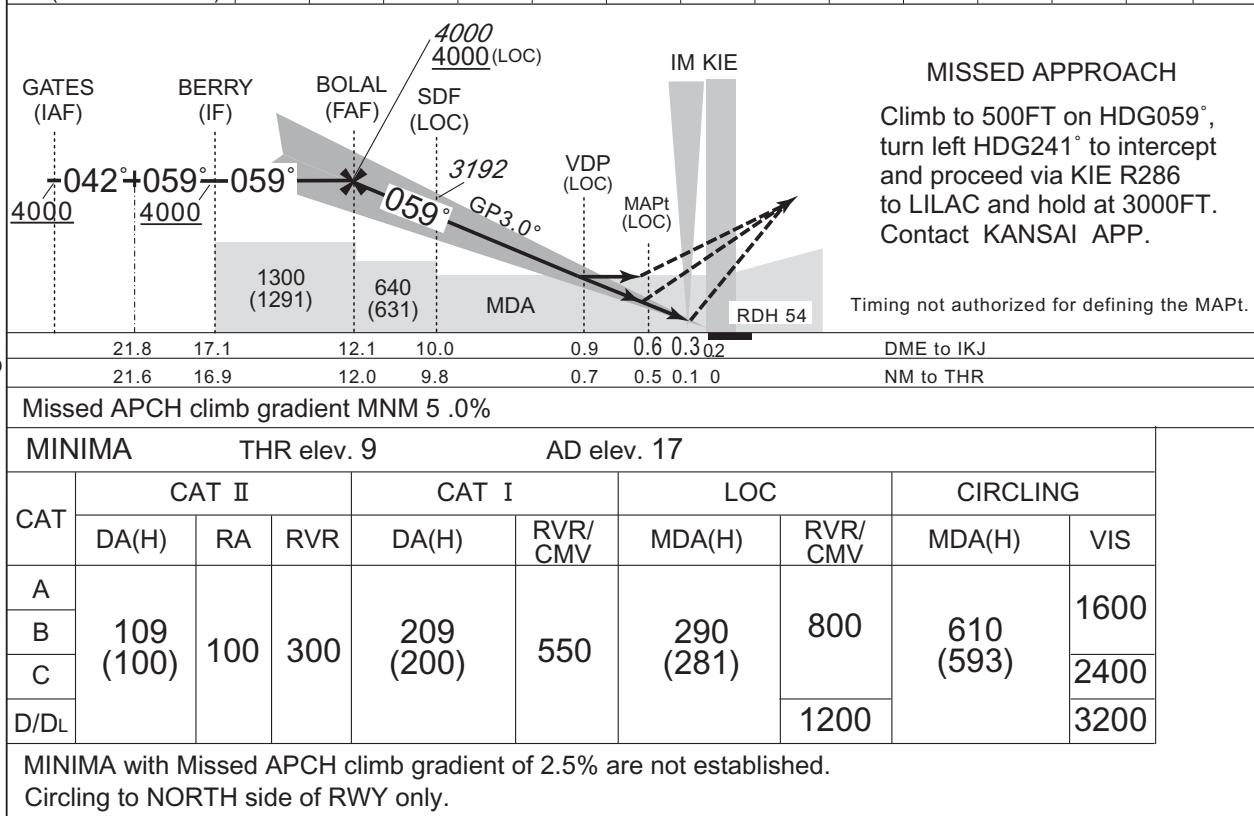
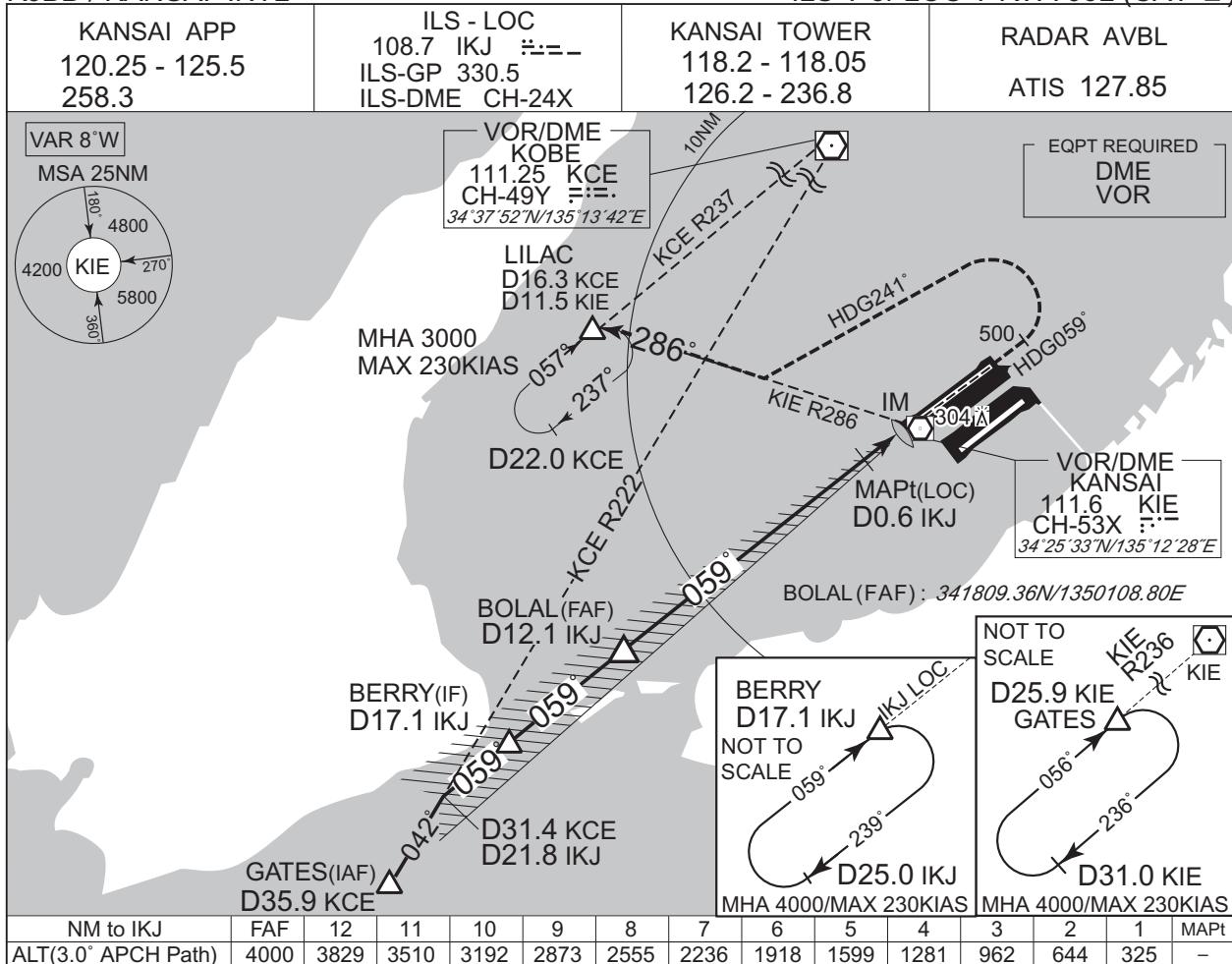
INSTRUMENT APPROACH CHART



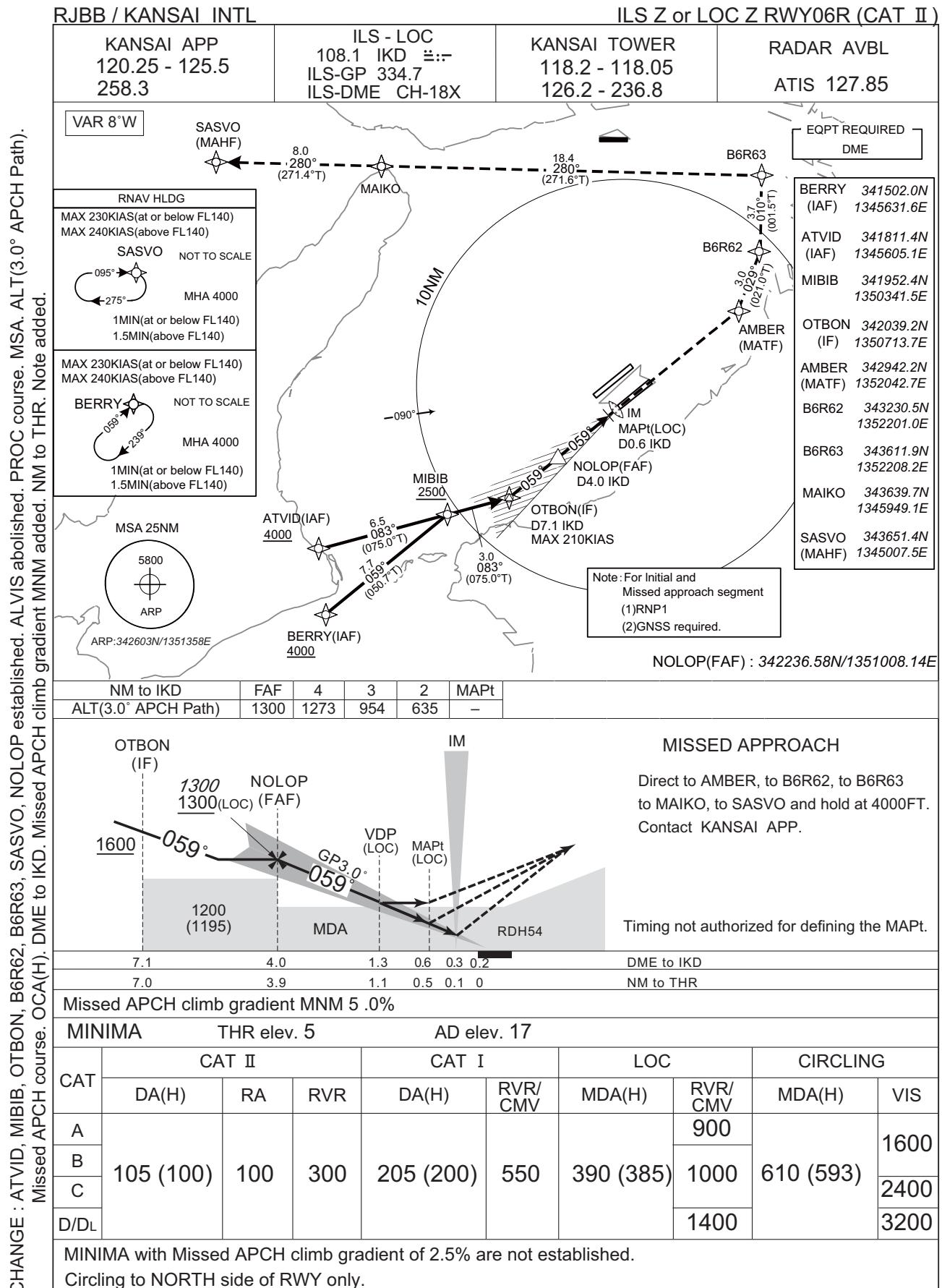
## INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

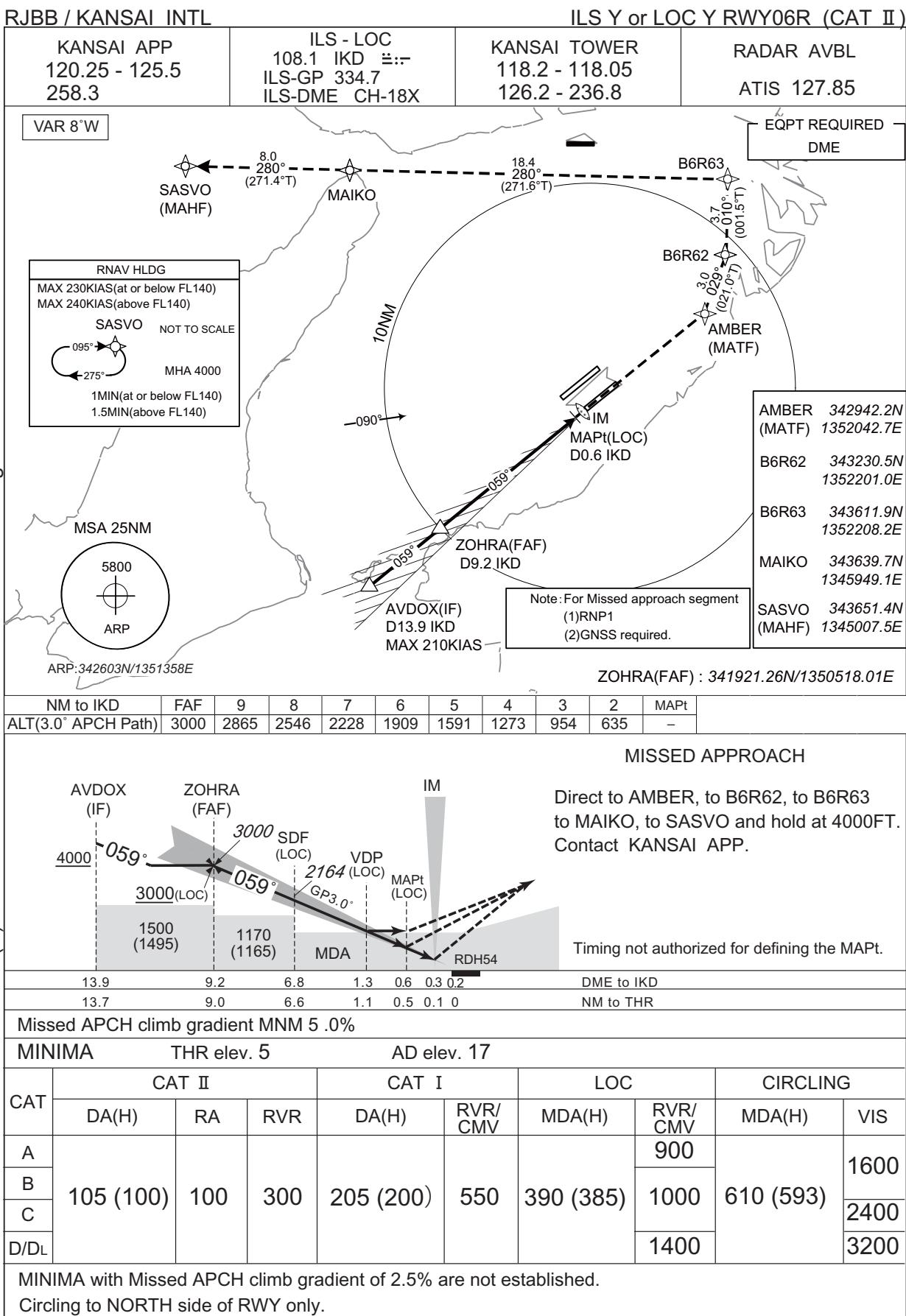
ILS Y or LOC Y RWY06L (CAT II)



INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



CHANGE : B6R62, B6R63, SASVO, AVDOX established. ALLAN abolished. PROC course. ALT(3.0° APCH Path). Note added.  
Missed APCH course. OCA(H). DME to THR. Missed APCH climb gradient MNM added. MSA.

## **INSTRUMENT APPROACH CHART**

RJBB / KANSAI INTL

KANSAI APP  
120.25 - 125.5  
258.3

ILS - LOC  
108.1 IKD 334.7  
ILS-GP CH-18X

KANSAI TOWER  
118.2 - 118.05  
126.2 - 236.8

RADAR AVBL  
ATIS 127.85

VAR 8°W

VOR/DME  
KANSAI  
111.6 KIE  
CH-53X F:  
34°25'33"N 135°12'28"E

**EQPT REQUIRED**  
**DME**  
**VOR**

NOT TO SCALE

1378 1608 1262 1891

NOT TO SCALE

AGSUP D17.5 IKD LOC

D25.0 IKD MHA 4000 MAX 230KIAS

059° 239°

D25.9 KIE GATES

D31.0 KIE MHA 4000 MAX 230KIAS

056° 236°

KIE R236

KIE

NM to IKD	FAF	12	11	10	9	8	7	6	5	4	3	2	MAPt
ALT(3.0° APCH Path)	4000	3820	3502	3183	2865	2546	2228	1909	1591	1273	954	635	–

## MISSED APPROACH

Climb to 4000FT via HDG059° to KIE 5.4DME, turn left climb via KCE R167 to intercept and proceed via YOE R279 to MAIKO, via YOE R279 to SASVO and hold. Contact KANSAI APP.

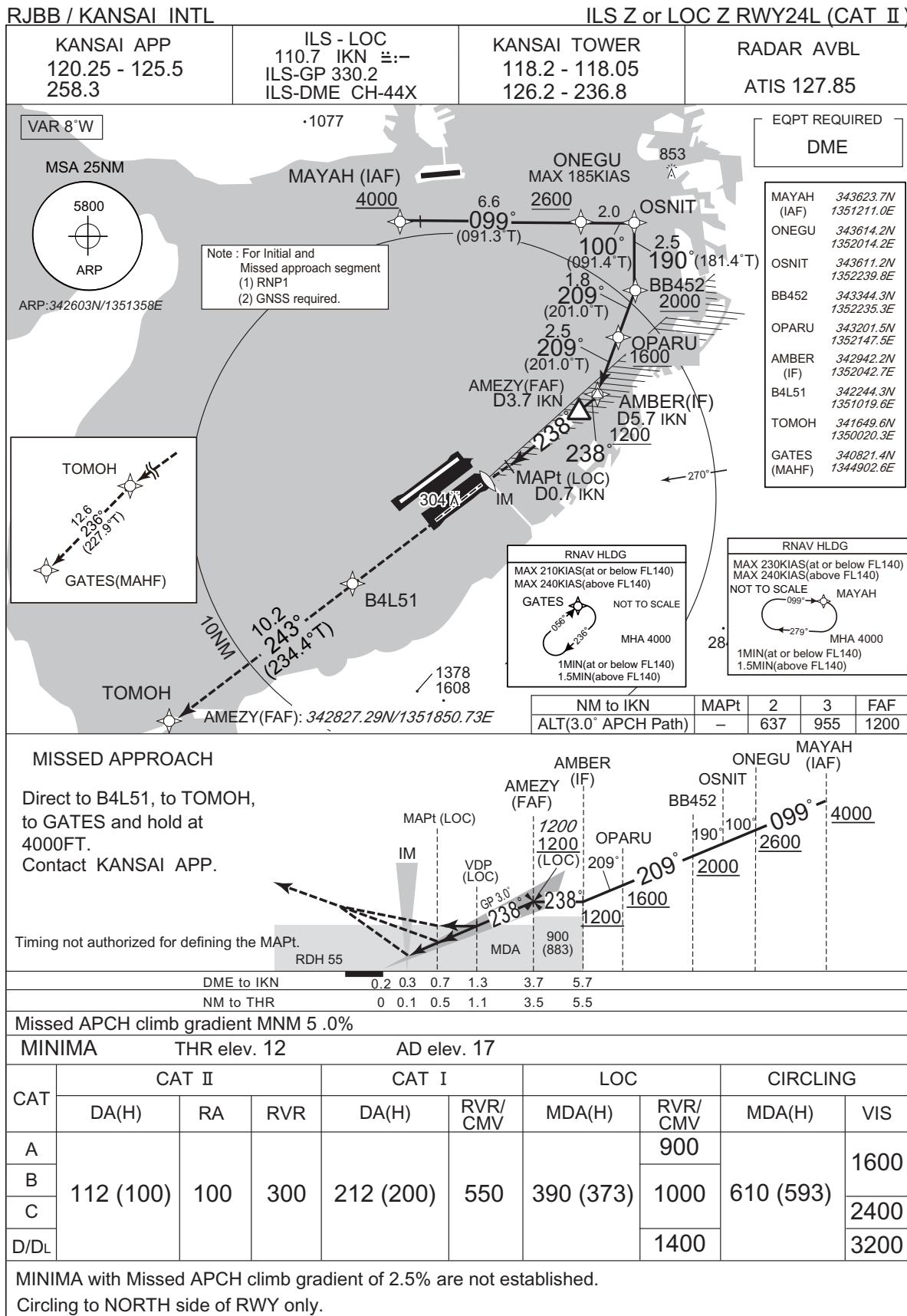
Timing not authorized for defining the MAPt.

Missed APC-H climb gradient MNM 5.0%

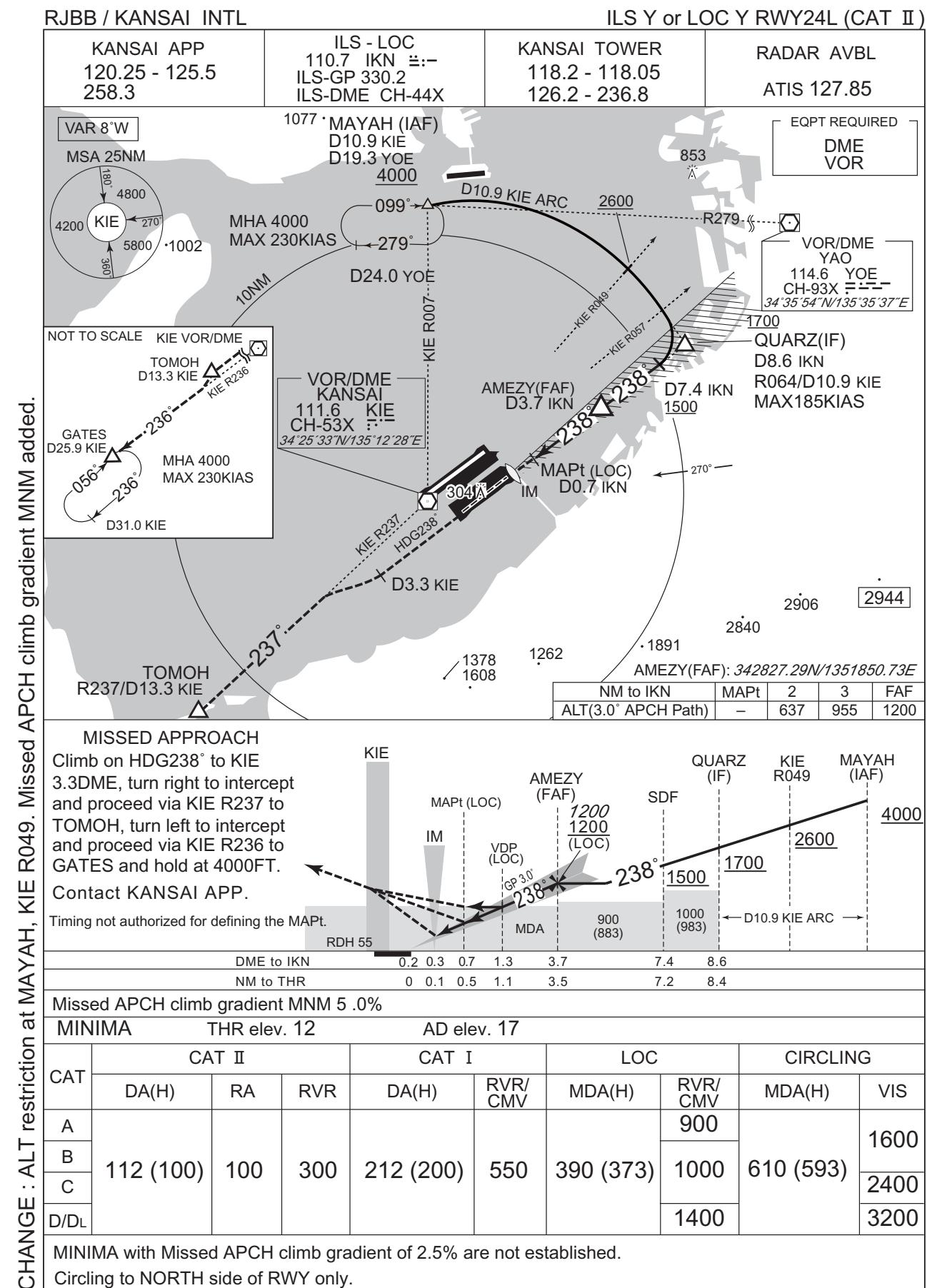
**MINIMA** THB elev. 5 AD elev. 17

## INSTRUMENT APPROACH CHART

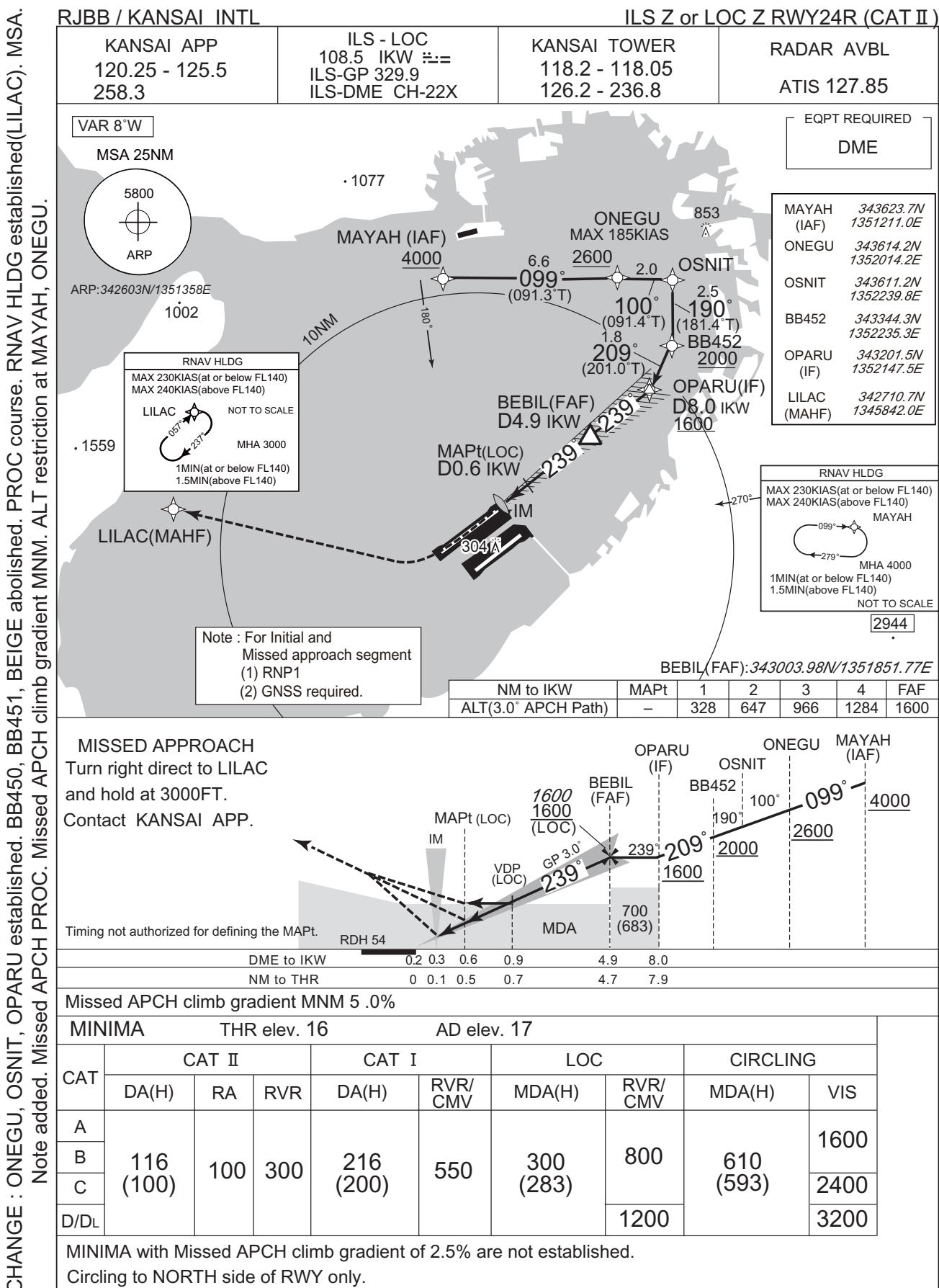
CHANGE : ONEGU, OSNIT, OPARU established. MSA. RNAV HLDG(GATES) established. Note added.  
 ALT restriction at MAYAH, ONEGU. PROC course. Missed APCH climb gradient MNM added.



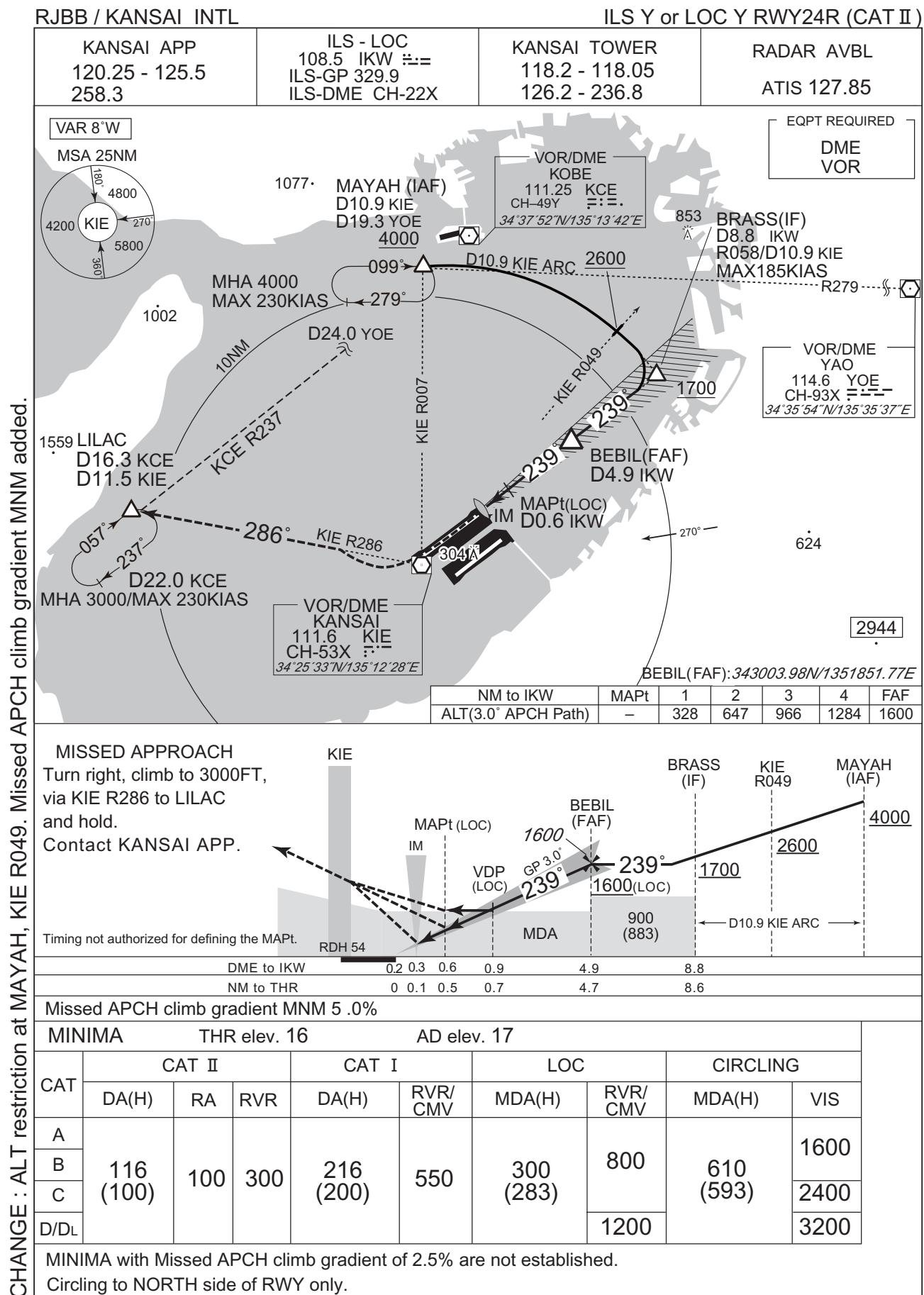
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



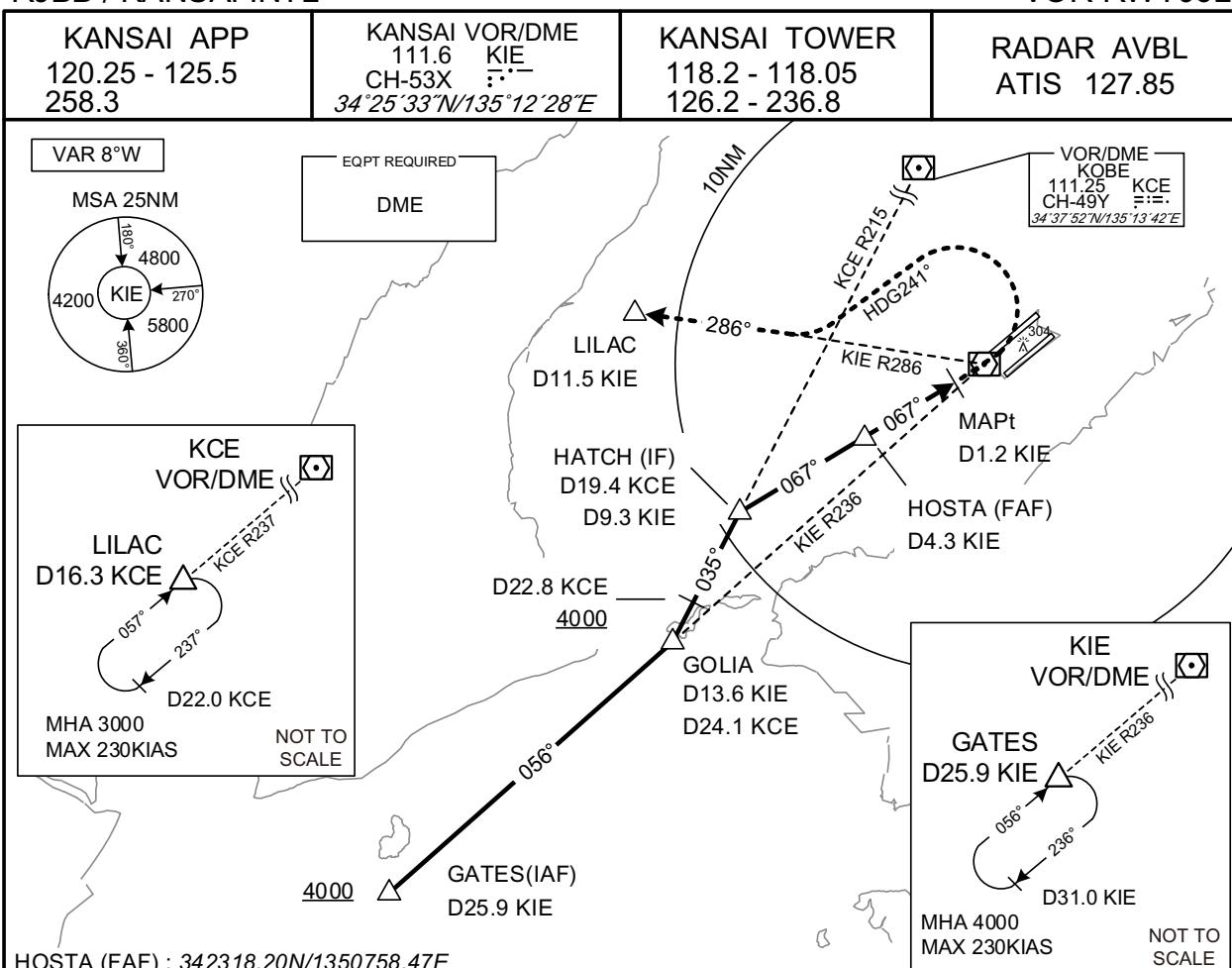
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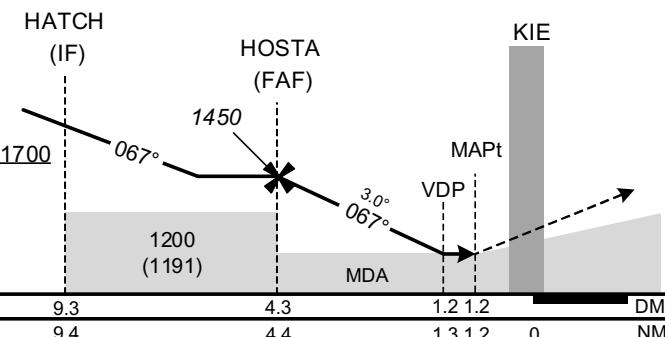
## INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

VOR RWY06L



CHANGE : Missed APCH climb gradient MNM added.



## MISSSED APPROACH

Turn left HDG241° to intercept and proceed via KIE R286 to LILAC and hold at 3000FT.

Contact KANSAI APP.

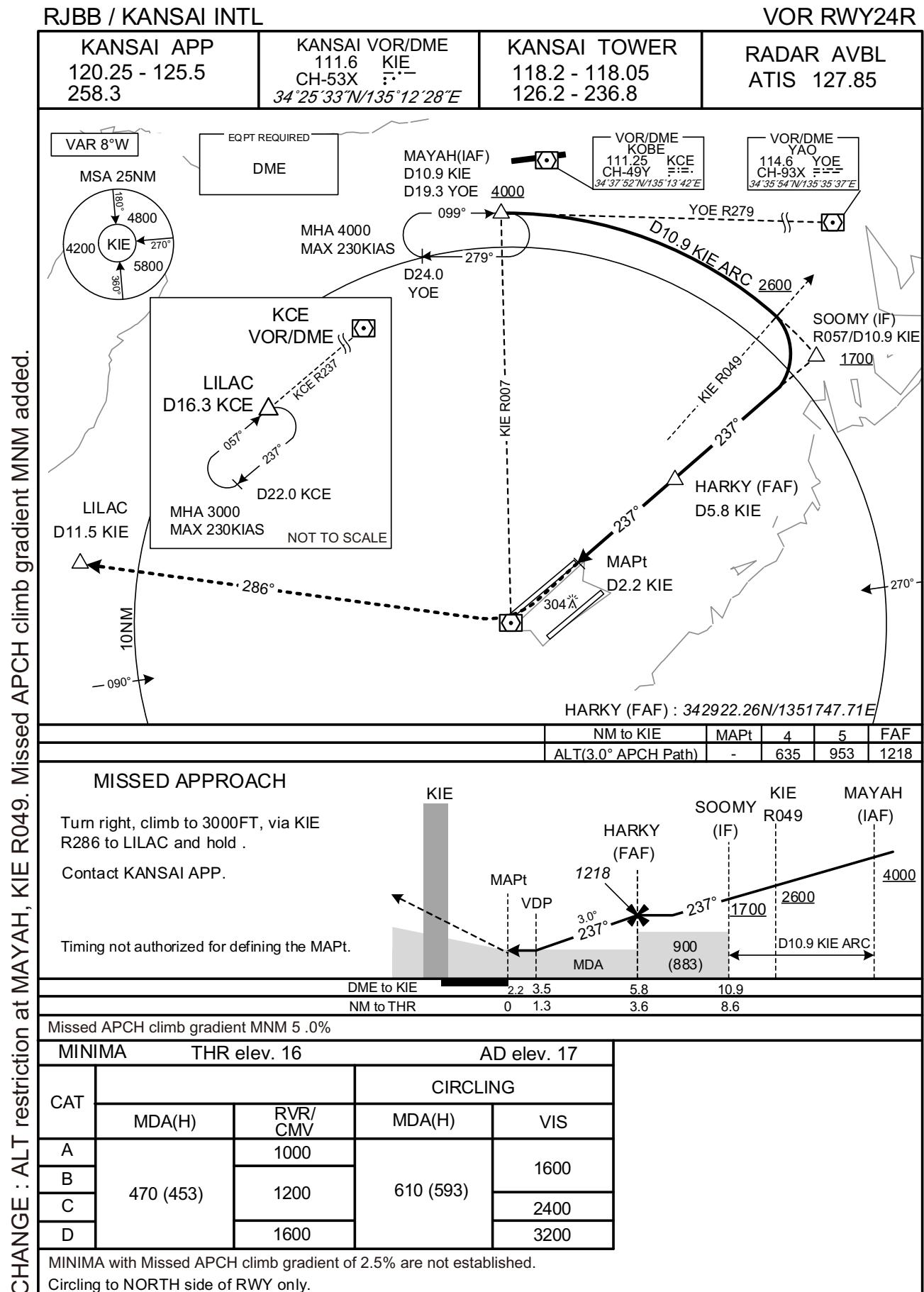
Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

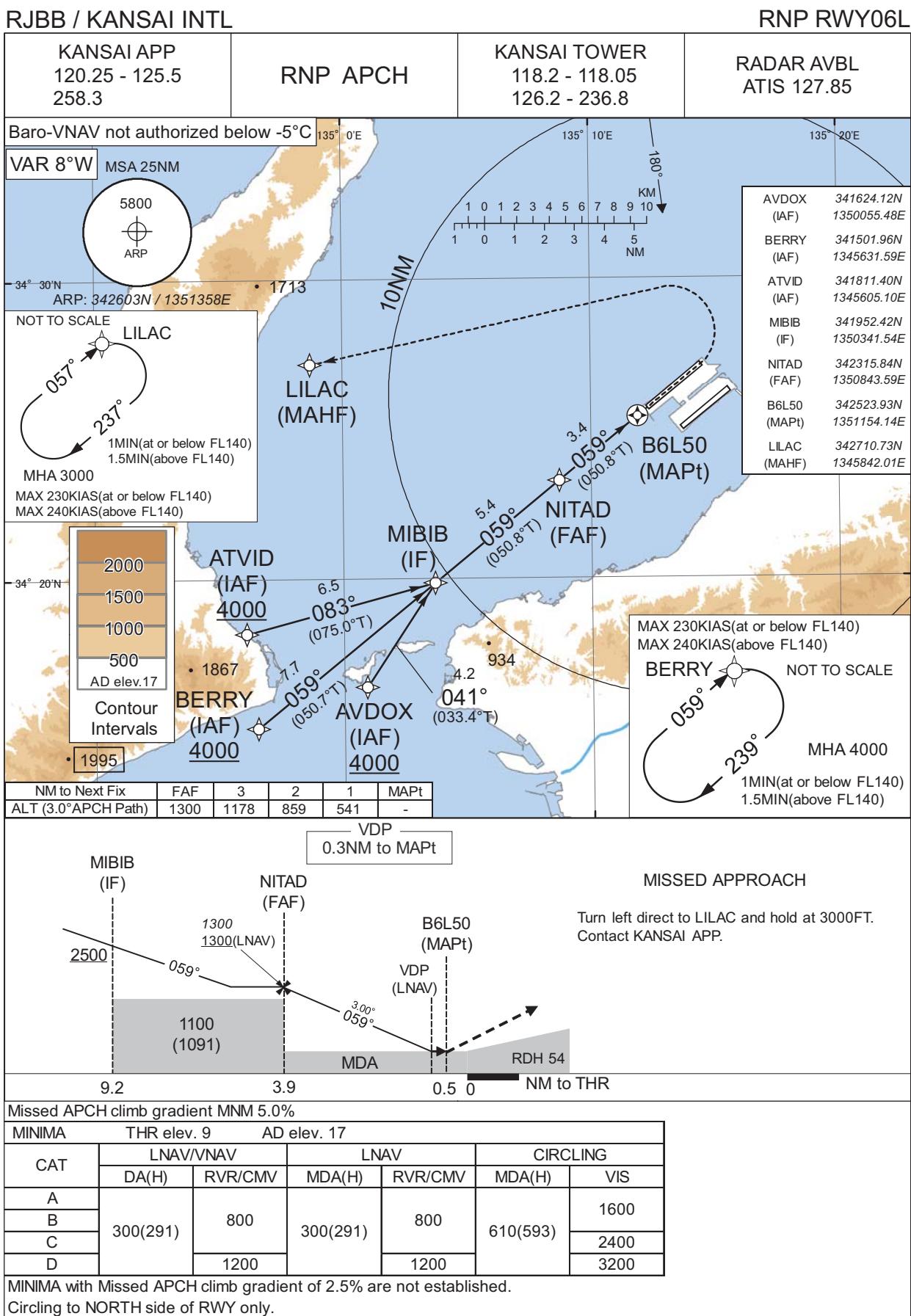
MINIMA		THR elev. 9	AD elev. 17	
CAT	MDA(H)	RVR/CMV	CIRCLING	
			MDA(H)	VIS
A		900		
B	450 (441)	1000	610 (593)	1600
C				2400
D		1400		3200

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

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



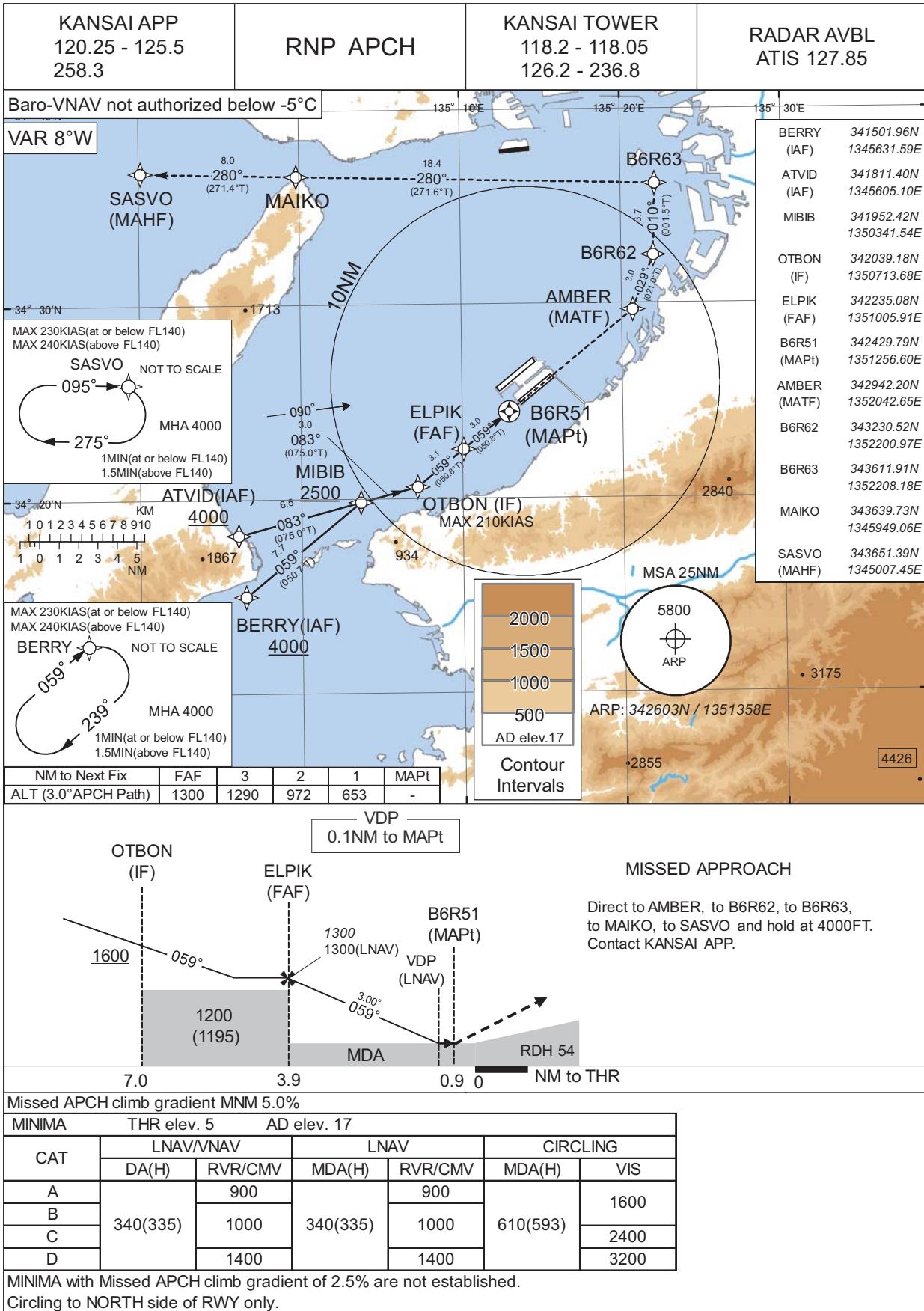
CHANGE : AVDOX, ATVID, MIBIB, NITAD established. B6L51, JOLLY abolished. PROC course. ALT(3.0°APCH Path).  
Missed APCH PROC. OCA(H), ALT restriction at MIBIB, NITAD. NM to THR.

INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

RNP Z RWY06R

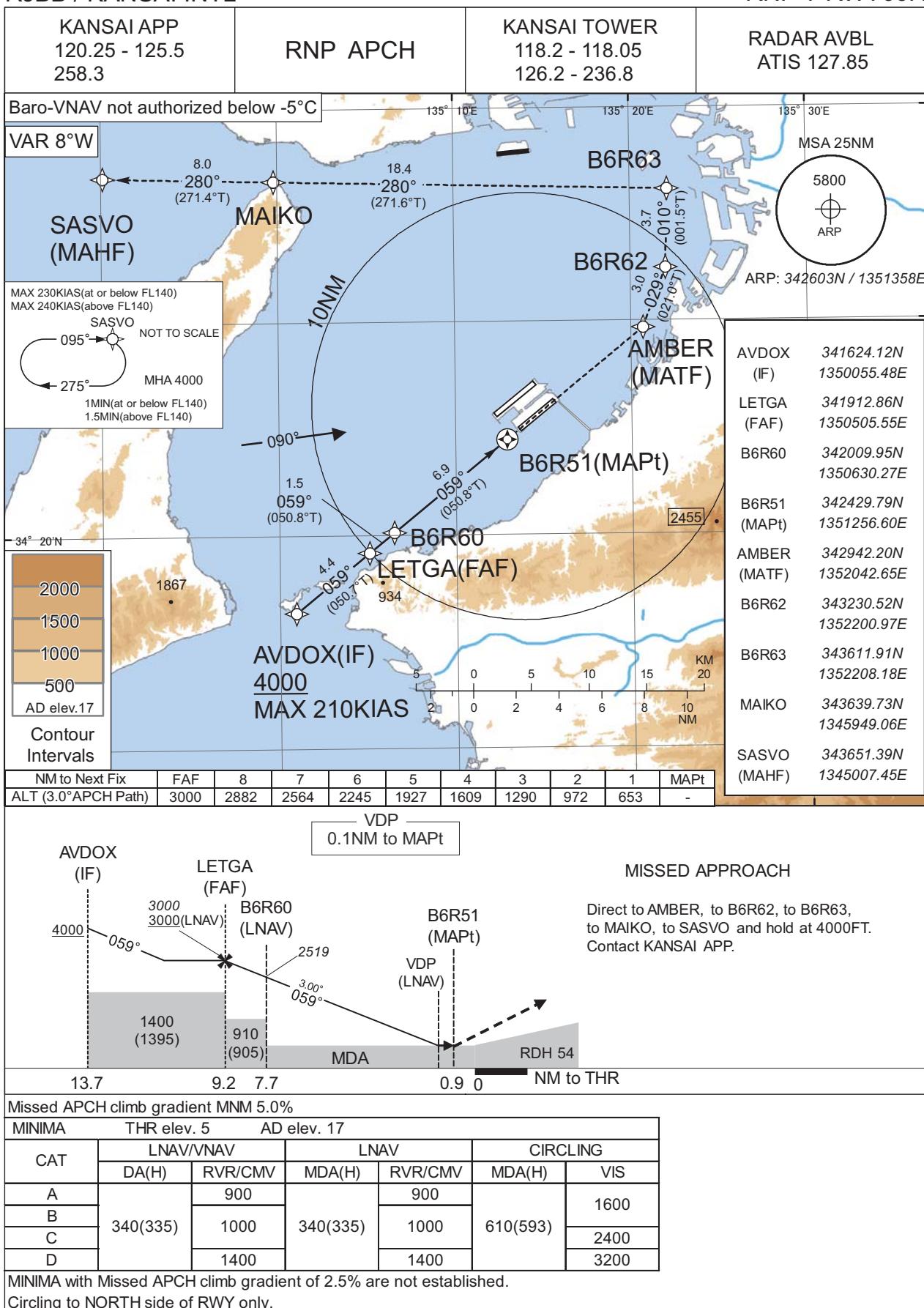
CHANGE : ATVID, MIBIB, OTBON, ELPPIK, B6R62, B6R63, SASVO established. JOLLY, B6R50, B6R53 abolished. PROC renamed. PROC course. ALT(3.0°APCH Path), ALT restriction at OTBON, ELPPIK, OCAB(H). Missed APCH PROC, NM to THR. Missed APCH climb gradient MMN.



## INSTRUMENT APPROACH CHART

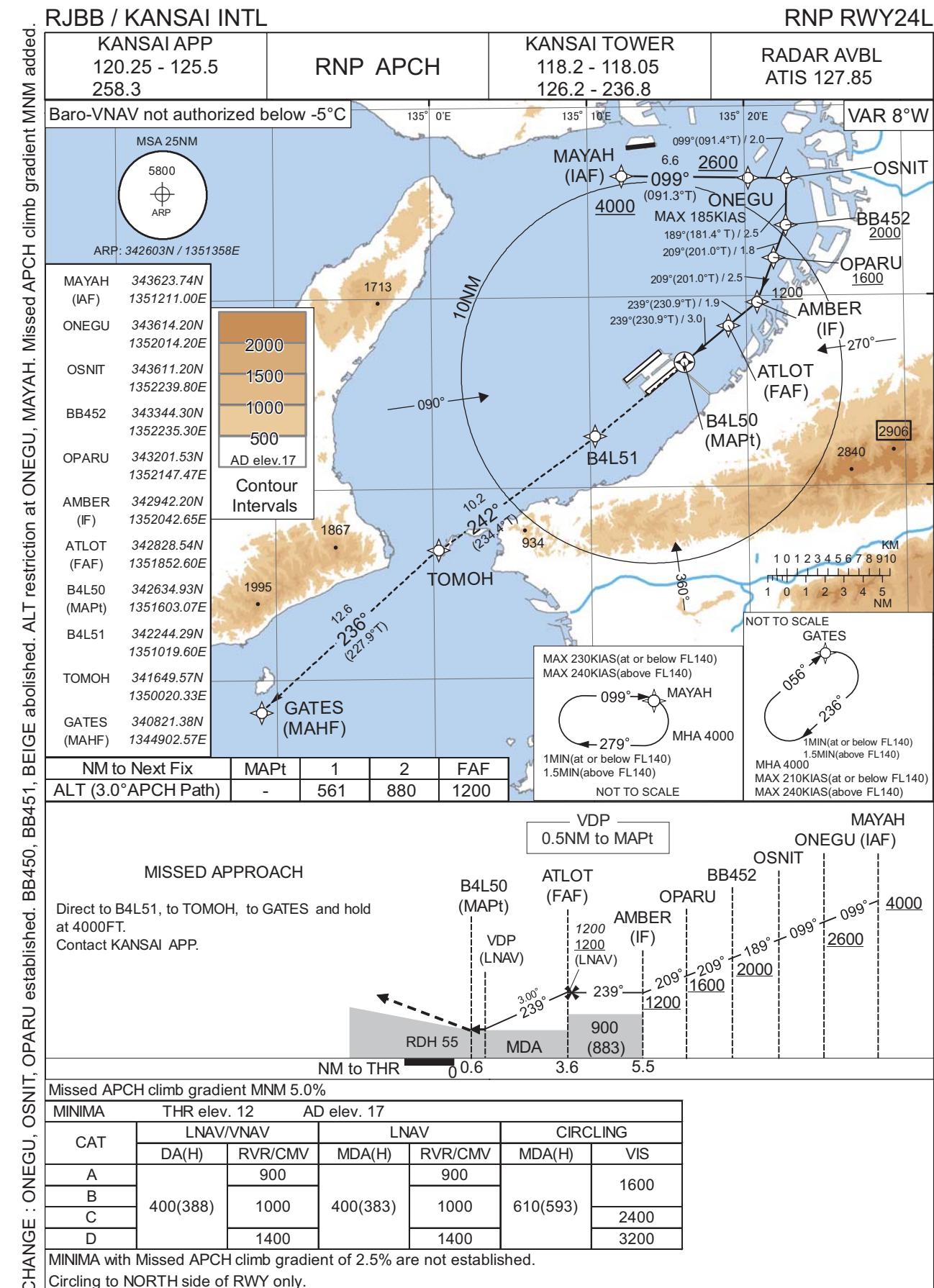
## RJBB / KANSAI INTL

## RNP Y RWY06R

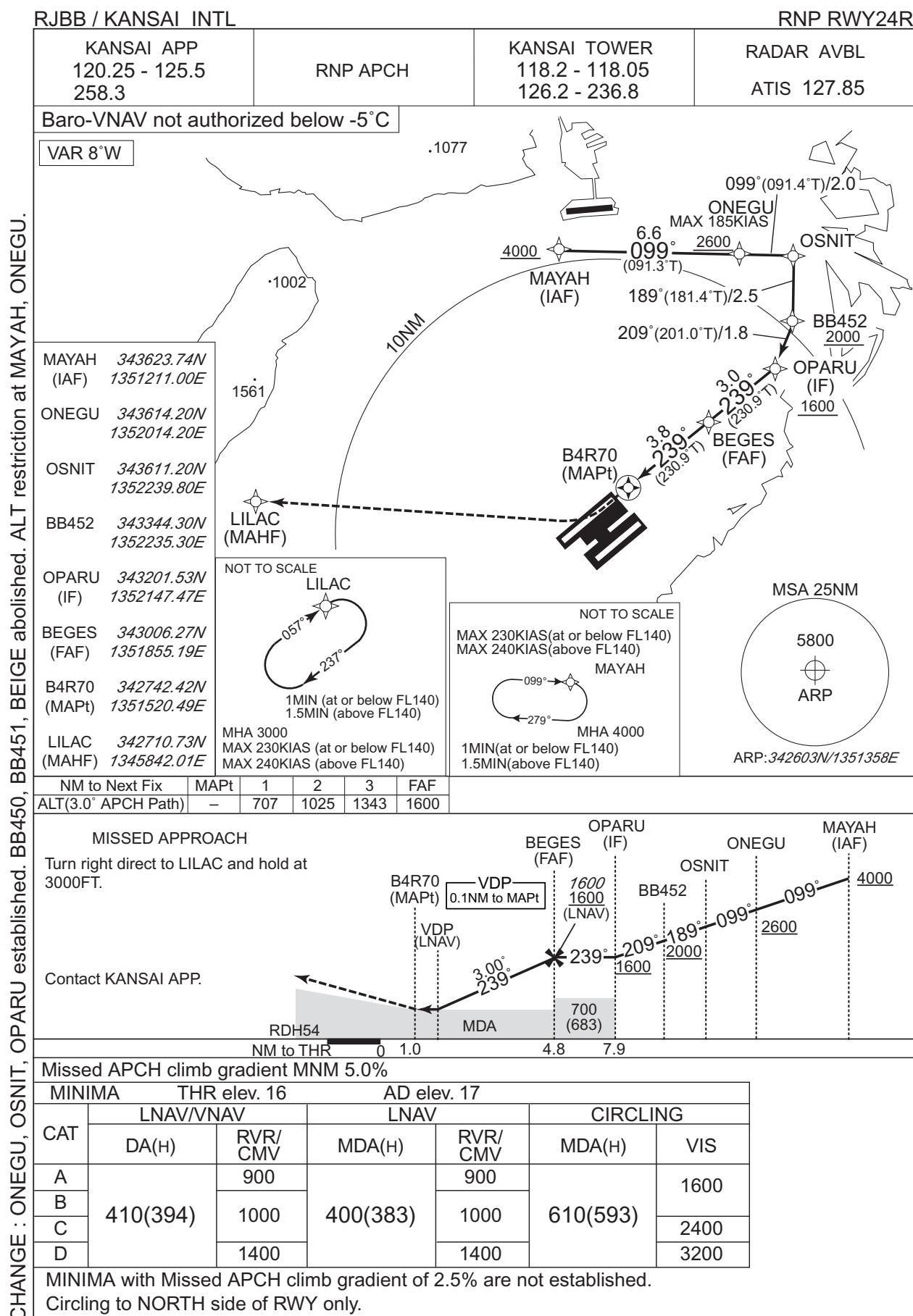


CHANGE : New PROC.

INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART



RJBB / KANSAI INTL

Visual REP

VAR 8°W(2023) / 5.0°W

KANSAI TOWER  
118.2 - 118.05

◎ 6NM N

2NM NW OF RWY06L/24R

◎ 6NM W

WATERWAY

BRIDGE

RINKU

TARUI

HAKOTSUKURI

5NM from ARP  
KANSAI CONTROL ZONE

Webメルカトル図法(球体補正) / Web Mercator projection

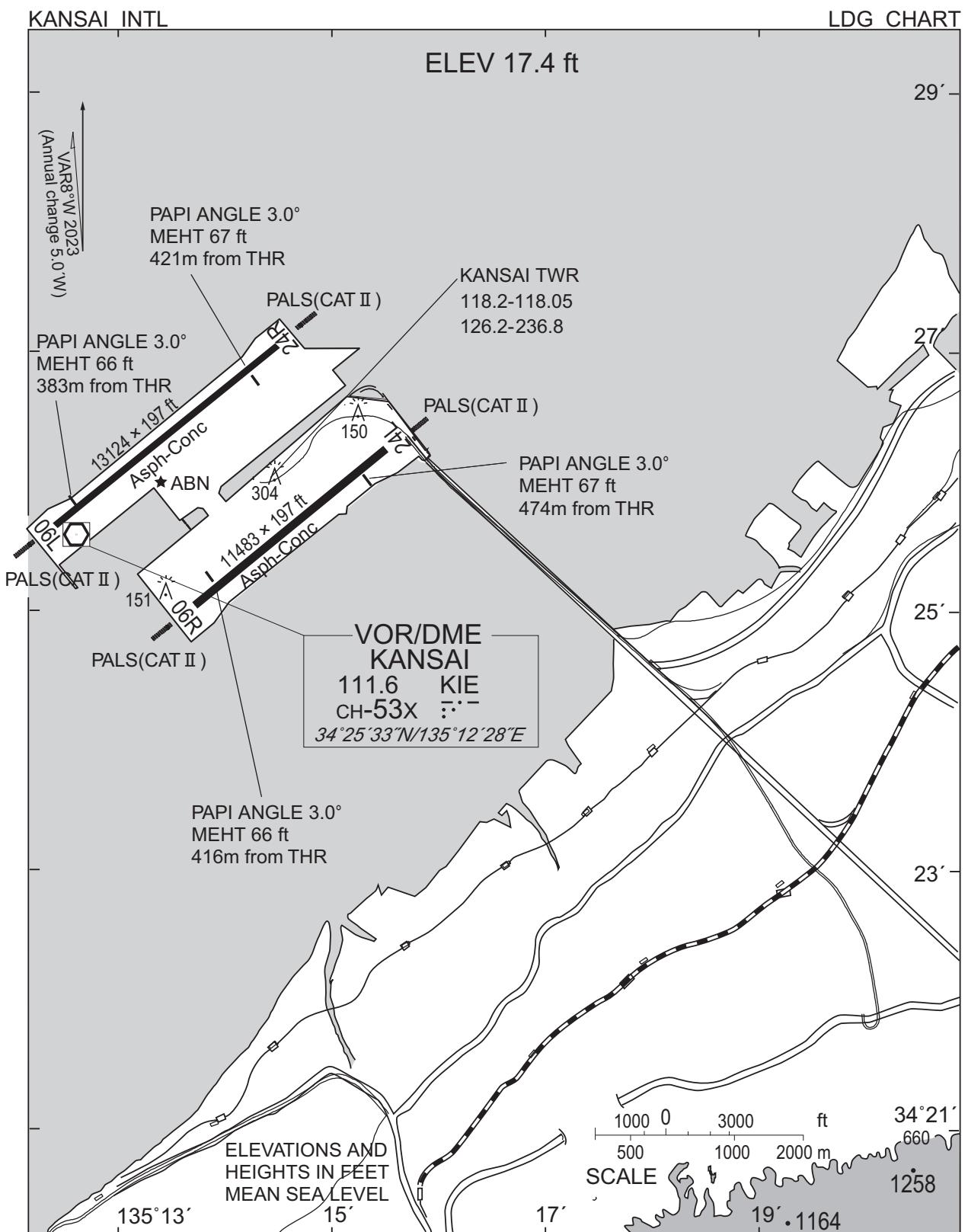
国土地理院

CHANGE : Visual REP(2NM NW of RWY06L/24R, Waterway, Bridge) established.



※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).

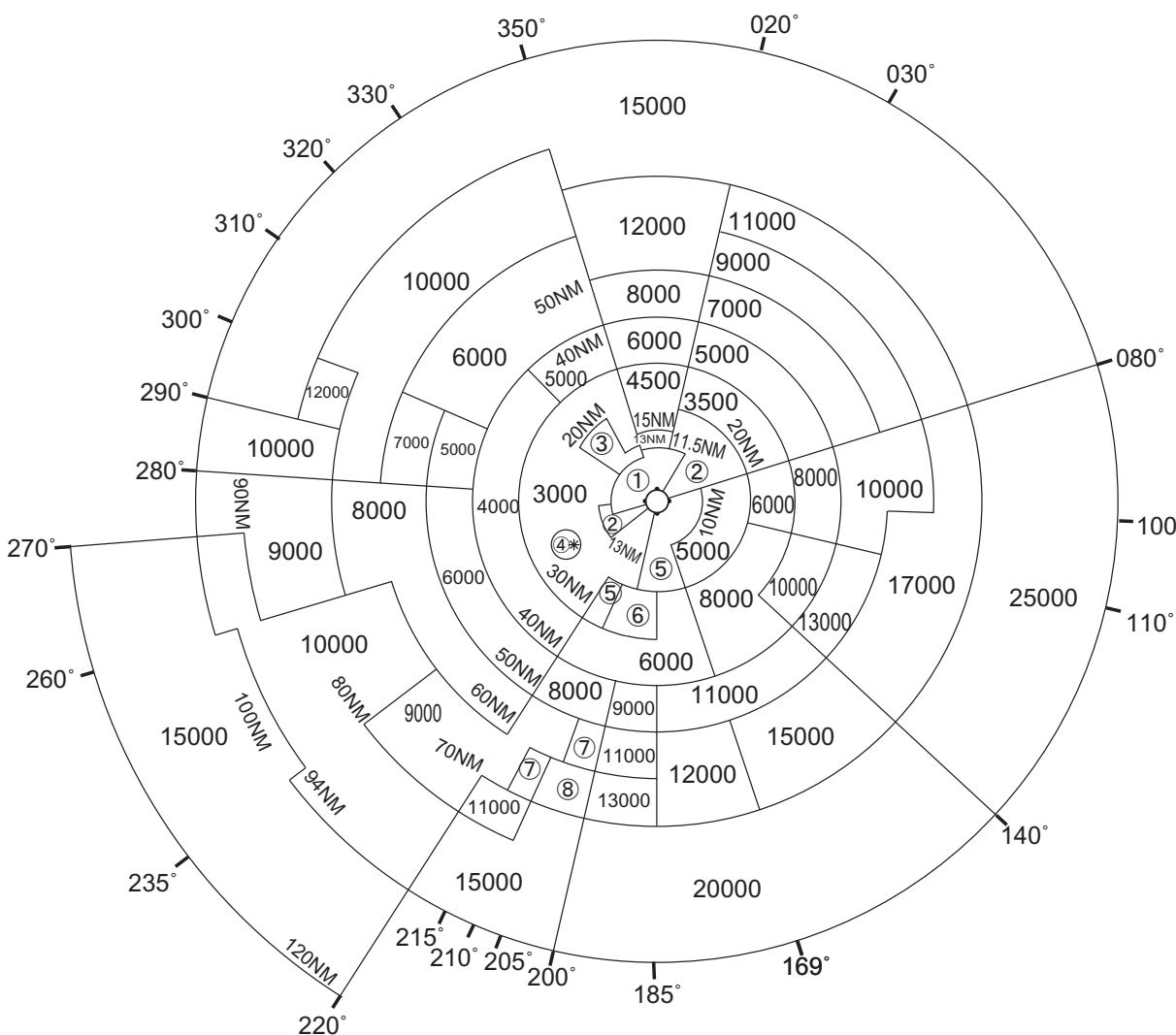
Call sign	BRG / DIST from ARP	Remarks
6NM N	360°T / 6.0NM	海上 Over the sea
2NM NW of RWY06L/24R	320°T / 2.5NM	海上 Over the sea
岸和田 Kishiwada	078°T / 7.4NM	南海本線・岸和田駅 Station
ウォーターウェイ Waterway	070°T / 0.5NM	海上 Over the sea
6NM W	270°T / 6.0NM	海上 Over the sea
ブリッジ Bridge	110°T / 2.3NM	連絡橋中間部 Middle section of the access bridge
りんくう Rinku	113°T / 3.6NM	ビル Building
樽井 Tarui	158°T / 3.9NM	南海本線・樽井駅 Station
箱作 Hakotsukuri	190°T / 5.6NM	南海本線・箱作駅 Station



RJBB / KANSAI INTL

Minimum Vectoring Altitude CHART

VAR 8°W (2023)



- CHANGE : Updated.  
 ① 1500  
 ② 2000  
 ③ 2100  
 ④ 3500  
 ⑤ 4000  
 ⑥ 5000  
 ⑦ 10000  
 ⑧ 12000

CENTER : 342636N/1351511E (No.1 RADAR SITE)  
 CENTER : 342540N/1351343E (No.2 RADAR SITE)

\* : 341405N/1344851E RADIUS : 3NM