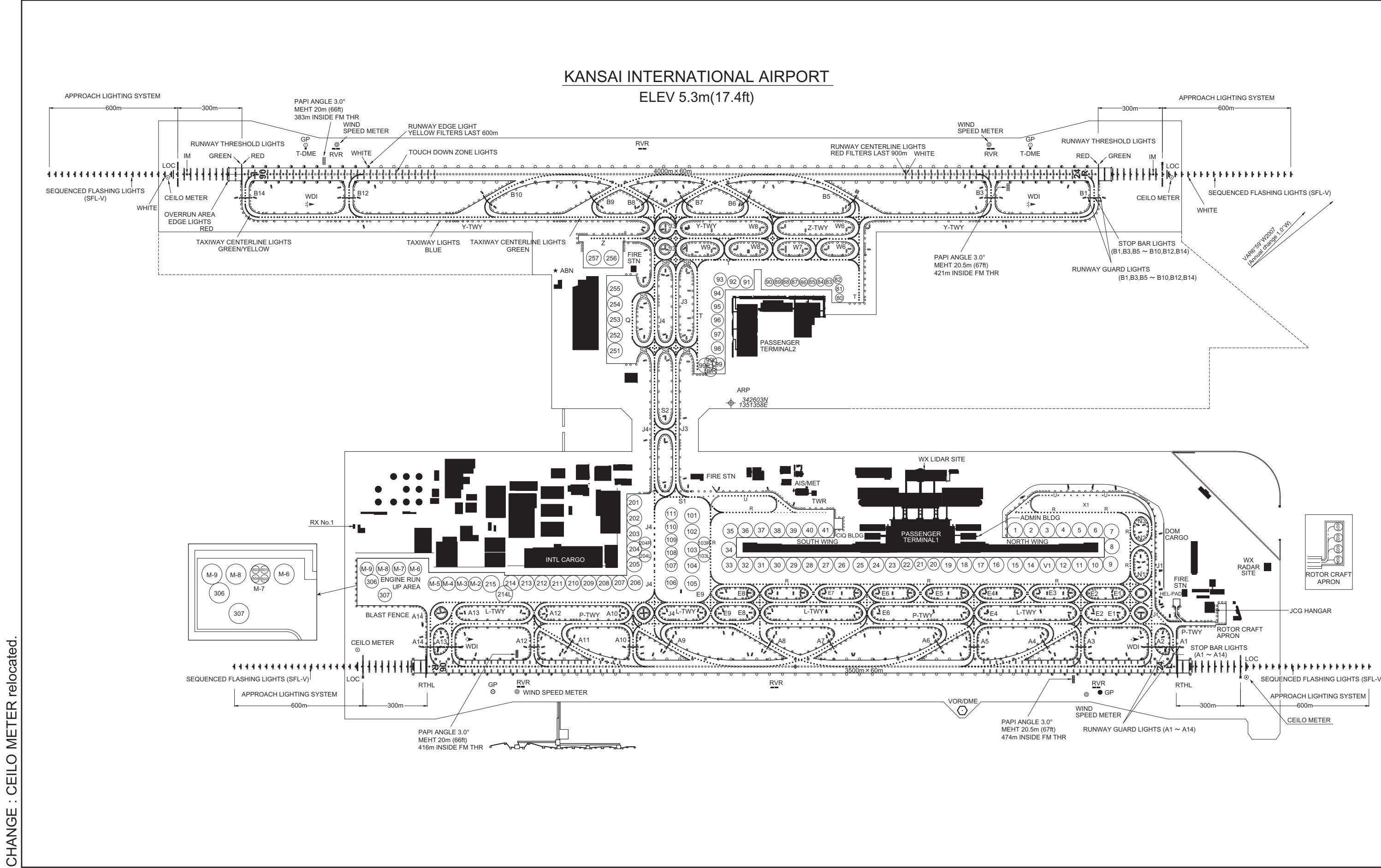
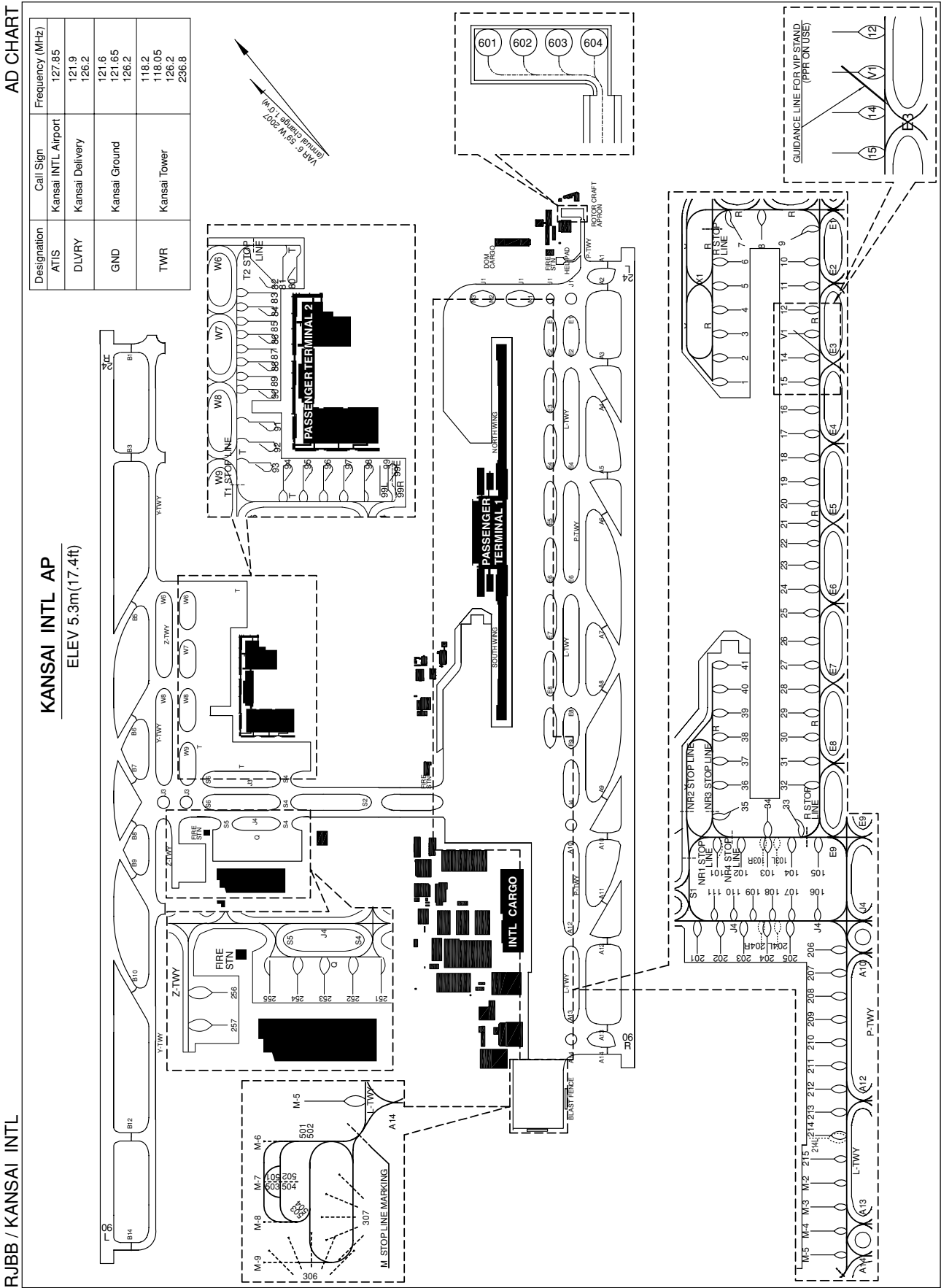
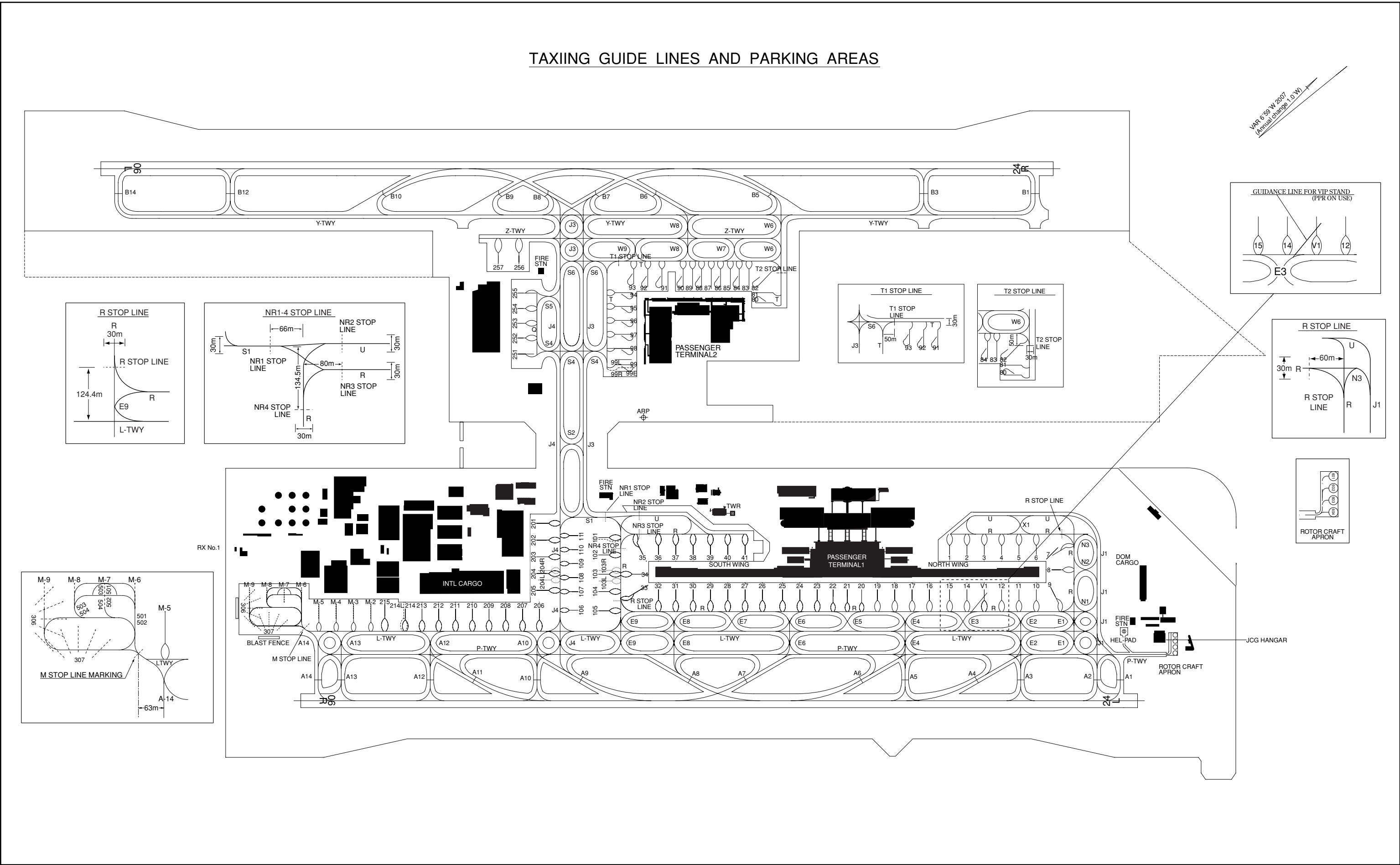


AERODROME CHART





TAXIING GUIDE LINES AND PARKING AREAS



DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC



AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATIONAL LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET, BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8° W - FEB 2017



LEGEND		AMBIENT RECORD
	IDENTIFICATION NUMBER	DATE
①	POLE, TOWER, SPIRE, ANTENNA, ETC	
⊙	TREE	
*	LEVEE	
+	RAILROAD	
—	RIVER	
—	TRANSMISSION LINE OR OVERHEAD CABLE	
—	TRIANGULATION POINT	
▲	AERONAUTICAL LIGHT	

AERODROME OBSTRUCTION CHART

TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETICS











STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

MAIKO EIGHT DEPARTURE

RWY06R : Climb via KNE R052 to 3.5DME, turn left, via KCE R167 to intercept and proceed via YOE R279 to MAIKO.

Cross KNE R034 at or above 2500FT,...

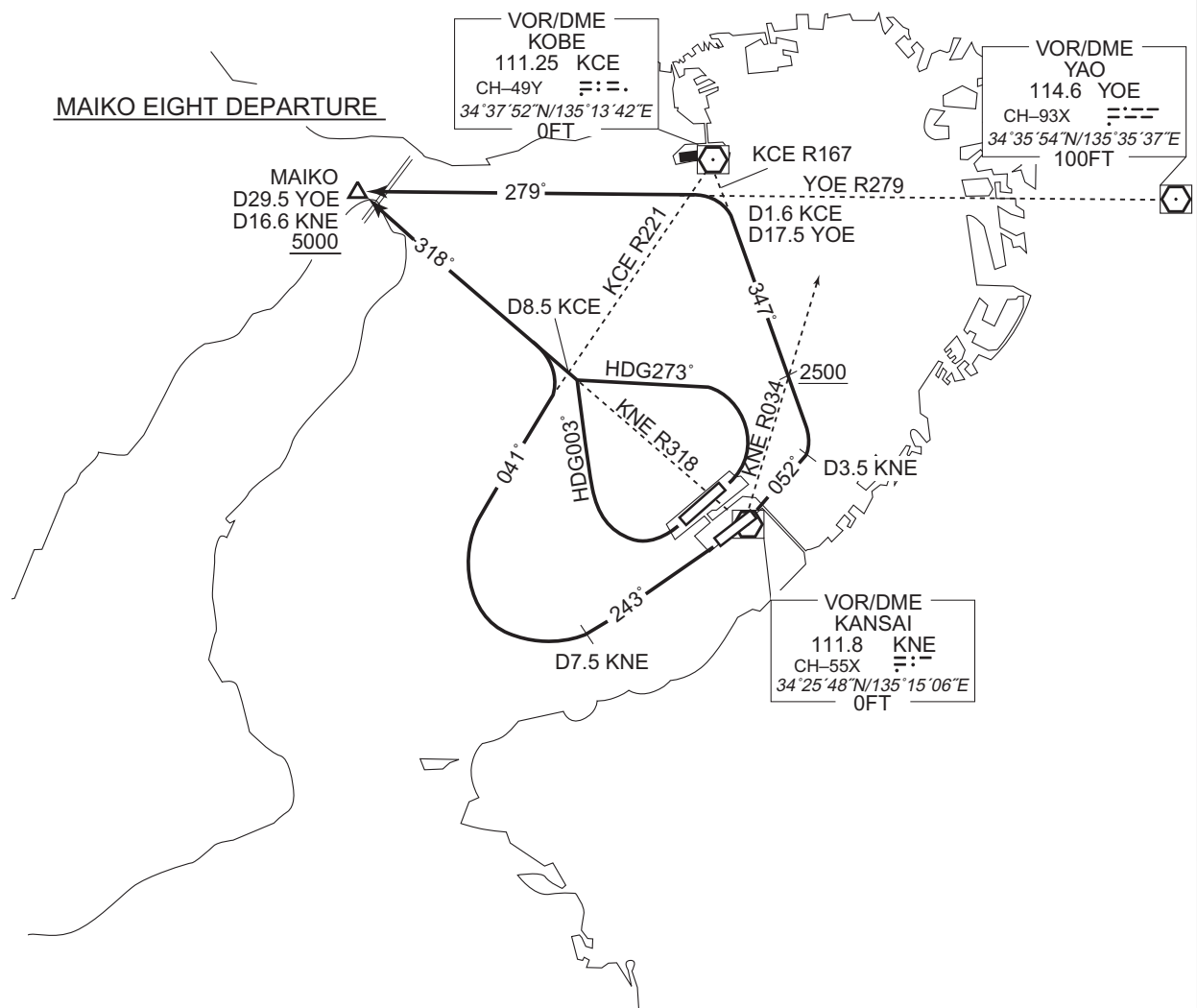
RWY06L : Turn left, climb on HDG273° to intercept and proceed via KNE R318 to MAIKO,...

RWY24R : Turn right, climb on HDG003° to intercept and proceed via KNE R318 to MAIKO,...

RWY24L : Climb via KNE R243 to 7.5DME, turn right, via KCE R221 to intercept and proceed via KNE R318 to MAIKO,...

...cross MAIKO at or above 5000FT.

CHANGE : PROC renamed. Radial FM KCE.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

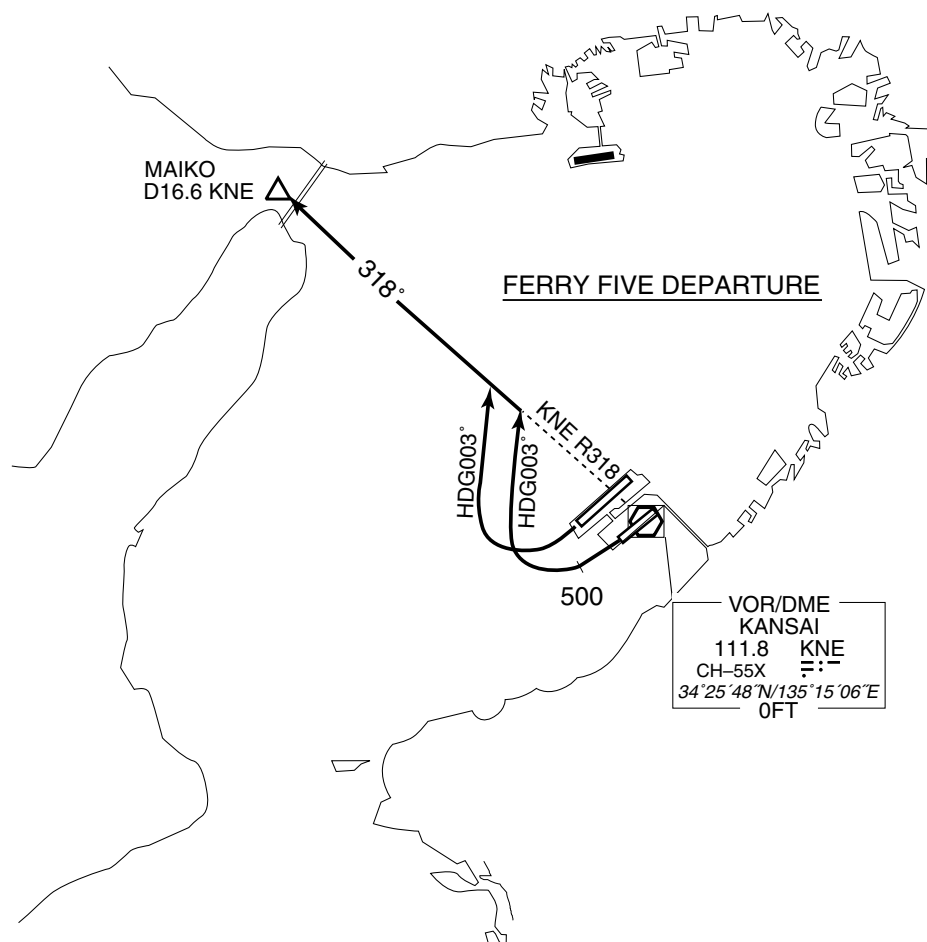
SID

FERRY FIVE DEPARTURE

RWY24R : Turn right, climb on HDG003° to intercept and proceed via KNE R318 to MAIKO.

RWY24L : Climb RWY HDG to 500FT, turn right HDG003° to intercept and proceed via KNE R318 to MAIKO.

Note RWY24L : No turn before DER.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

TRANSITION

MIYAZU TRANSITION

From over MAIKO, proceed via KCE R272 to KAWAT, via TSC R001 to CHIZU via AYAYA, via YME R236 to YME VOR/DME.

Cross KAWAT at or above 8000FT.

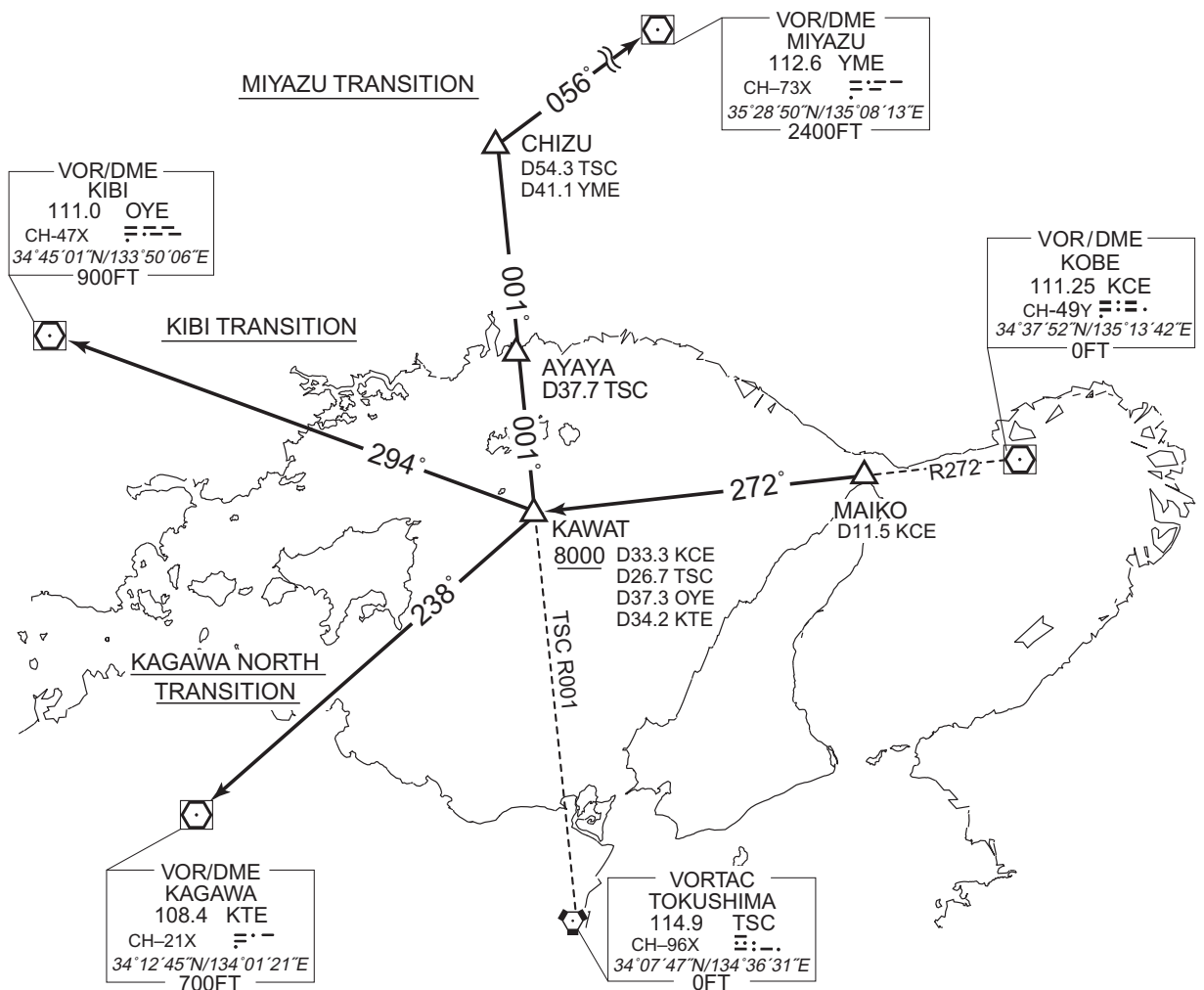
KIBI TRANSITION

From over MAIKO, proceed via KCE R272 to KAWAT, via OYE R114 to OYE VOR/DME.
Cross KAWAT at or above 8000FT.

KAGAWA NORTH TRANSITION

From over MAIKO, proceed via KCE R272 to KAWAT, via KTE R058 to KTE VOR/DME.
Cross KAWAT at or above 8000FT.

CHANGE : Radial FM KCE. AYAYA established.



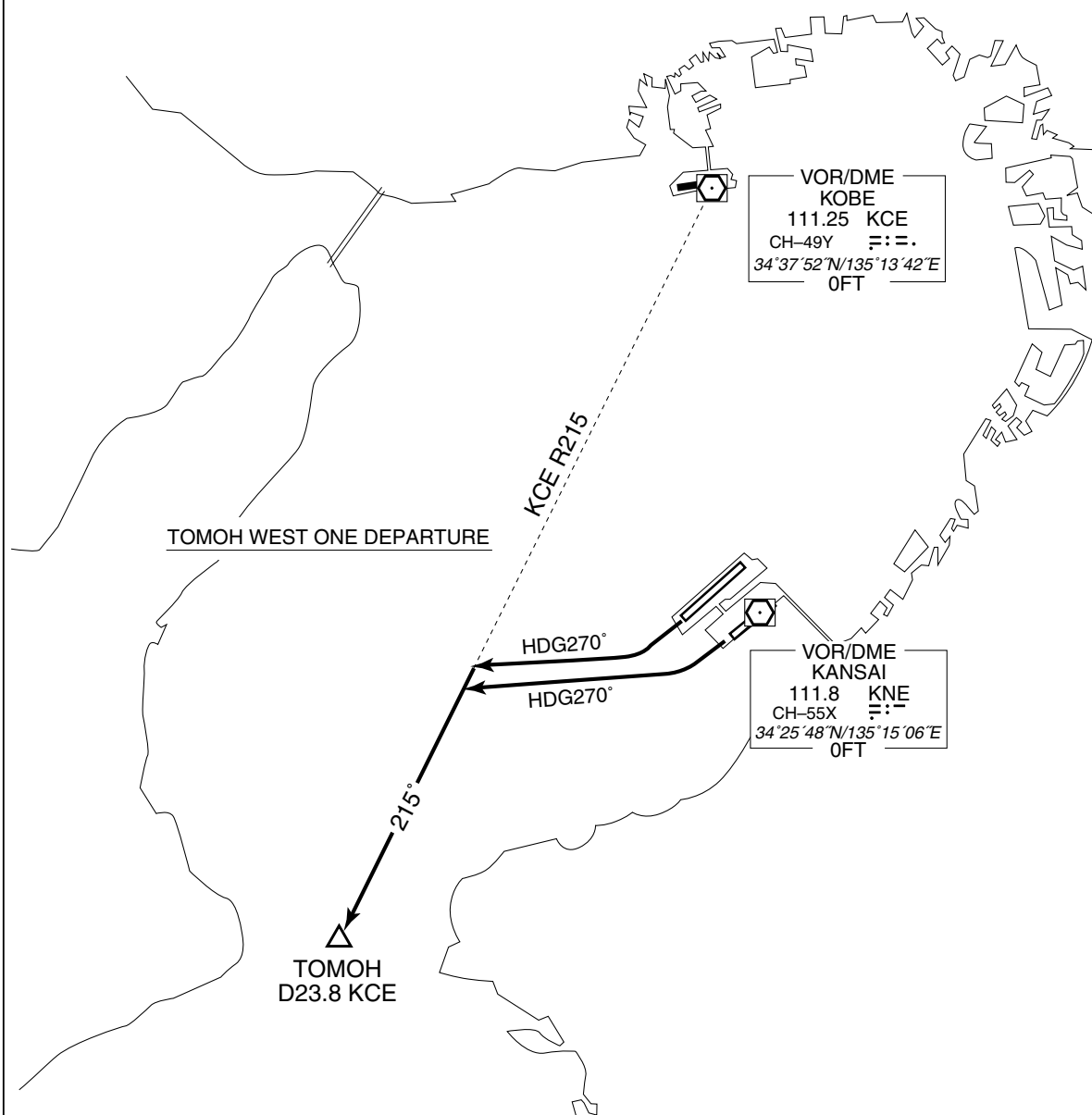
STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

TOMOH WEST ONE DEPARTURE

RWY24R/L : Turn right, climb on HDG270° to intercept and proceed via KCE R215 to TOMOH.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

TOMOH TWO DEPARTURE

- RWY06R : Climb via KNE R052 to 3.5DME, turn left, via KCE R167 to intercept and proceed via YOE R269, via KCE R215 to TOMOH.
Cross KNE R034 at or above 2500FT. ...
- RWY06L : Turn left, climb on HDG270° to intercept and proceed via KCE R215 to TOMOH. ...
- RWY24R : Turn right, climb on HDG270° to intercept and proceed via KCE R215 to TOMOH. ...
- RWY24L : Climb via KNE R243 to 7.5DME, turn right HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

...Cross TOMOH at or above 4000FT.

CHANGE : PROC renamed. Radial FM KCE.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

TRANSITION

KOCHI SOUTH TRANSITION

From over TOMOH, proceed via KNE R241 to UMAJI, via KRE R068 to KRE VOR/DME.

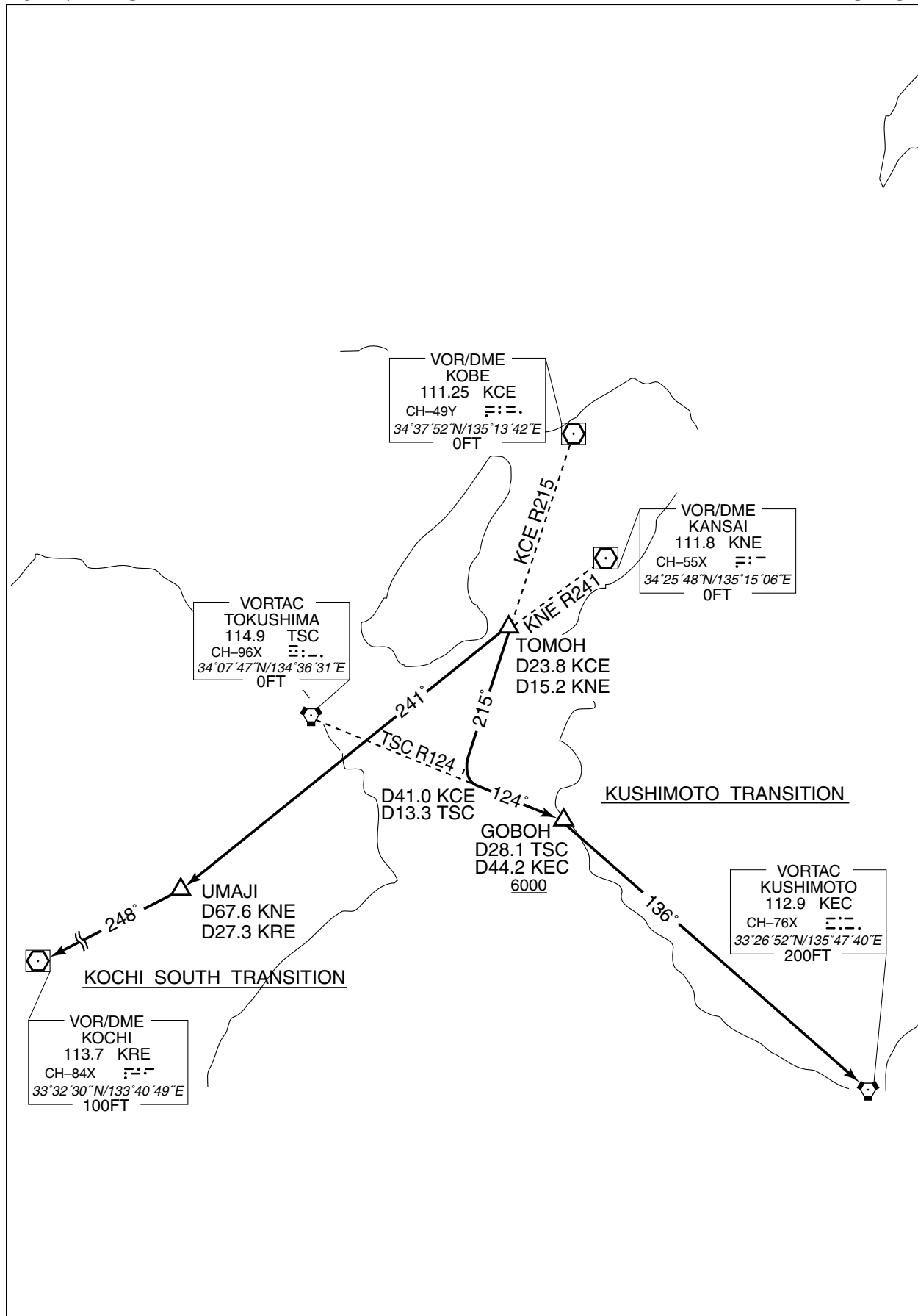
KUSHIMOTO TRANSITION

From over TOMOH, proceed via KCE R215 to intercept and proceed via TSC R124 to GOBOH, via KEC R316 to KEC VORTAC.
Cross GOBOH at or above 6000FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

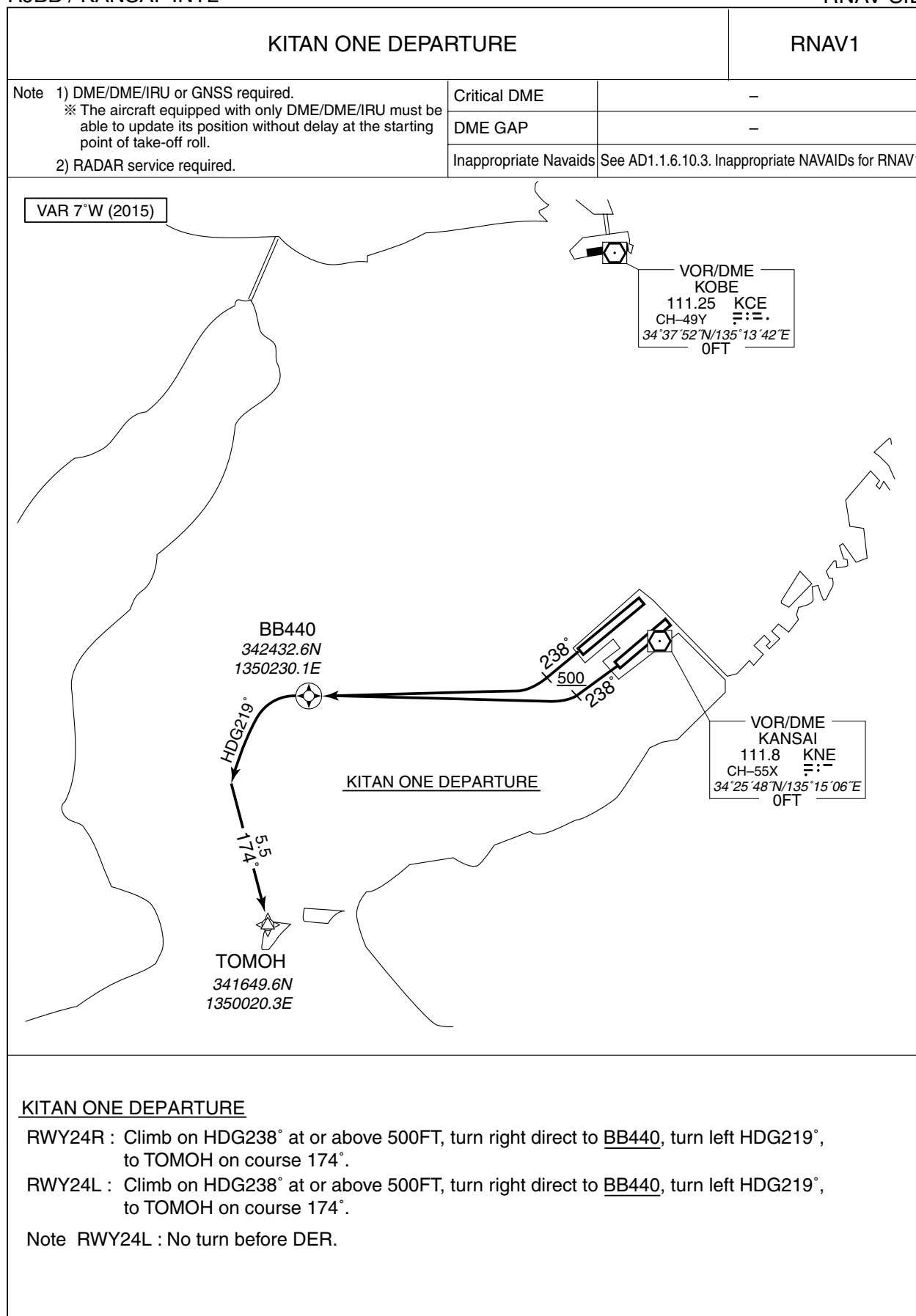
TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

KITAN ONE DEPARTURE

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB440	Y	—	-7.4	—	R	—	—	—	RNAV1
003	VI	—	—	219 (211.8)	-7.4	—	L	—	—	—	RNAV1
004	CF	TOMOH	—	174 (166.8)	-7.4	5.5	—	—	—	—	RNAV1

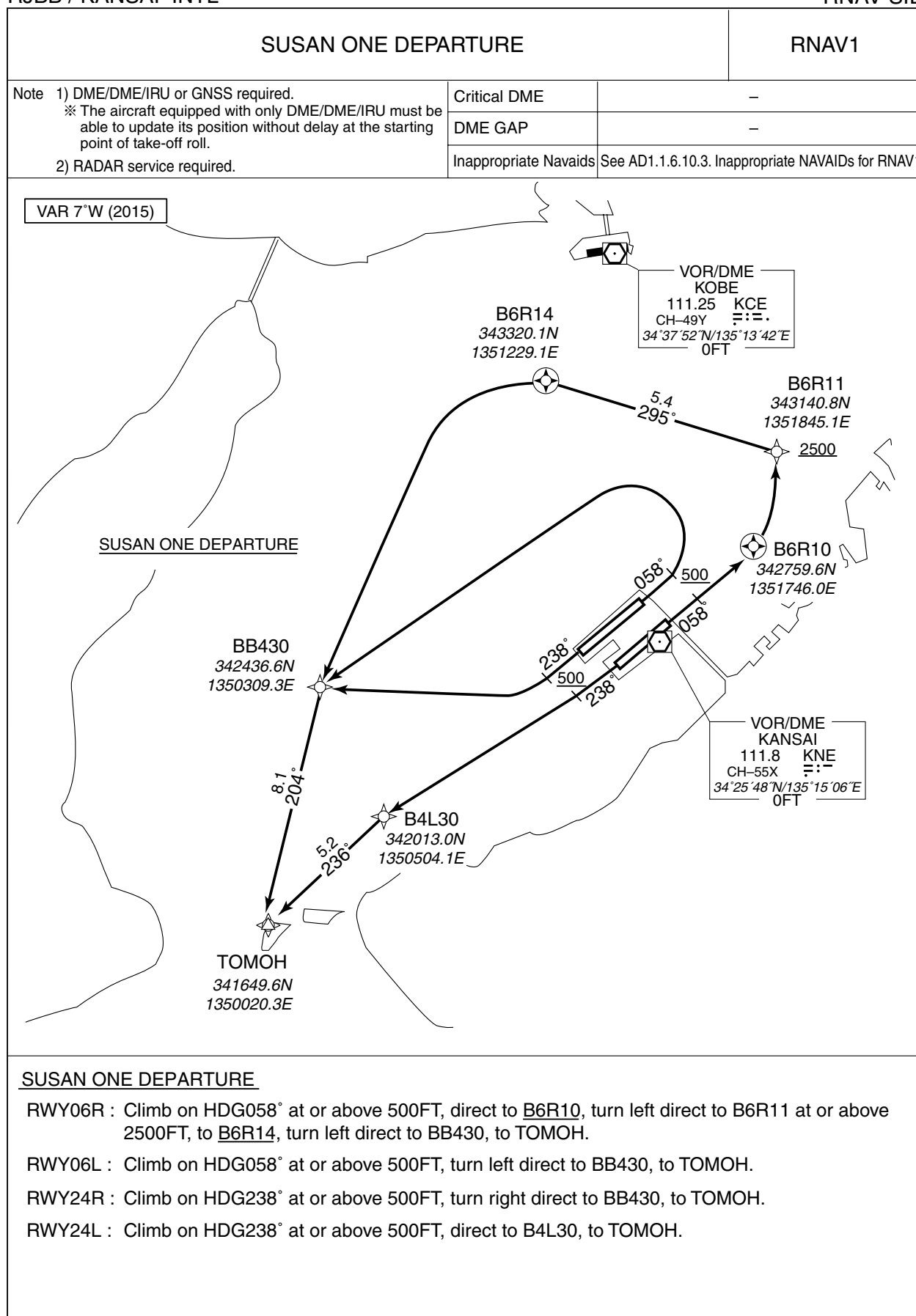
RWY24L

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB440	Y	—	-7.4	—	R	—	—	—	RNAV1
003	VI	—	—	219 (211.8)	-7.4	—	L	—	—	—	RNAV1
004	CF	TOMOH	—	174 (166.8)	-7.4	5.5	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

SUSAN 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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6R10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	B6R11	—	—	-7.4	—	L	+2500	—	—	RNAV1
004	TF	B6R14	Y	295 (287.8)	-7.4	5.4	—	—	—	—	RNAV1
005	DF	BB430	—	—	-7.4	—	L	—	—	—	RNAV1
006	TF	TOMOH	—	204 (196.6)	-7.4	8.1	—	—	—	—	RNAV1

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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB430	—	—	-7.4	—	L	—	—	—	RNAV1
003	TF	TOMOH	—	204 (196.6)	-7.4	8.1	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB430	—	—	-7.4	—	R	—	—	—	RNAV1
003	TF	TOMOH	—	204 (196.6)	-7.4	8.1	—	—	—	—	RNAV1

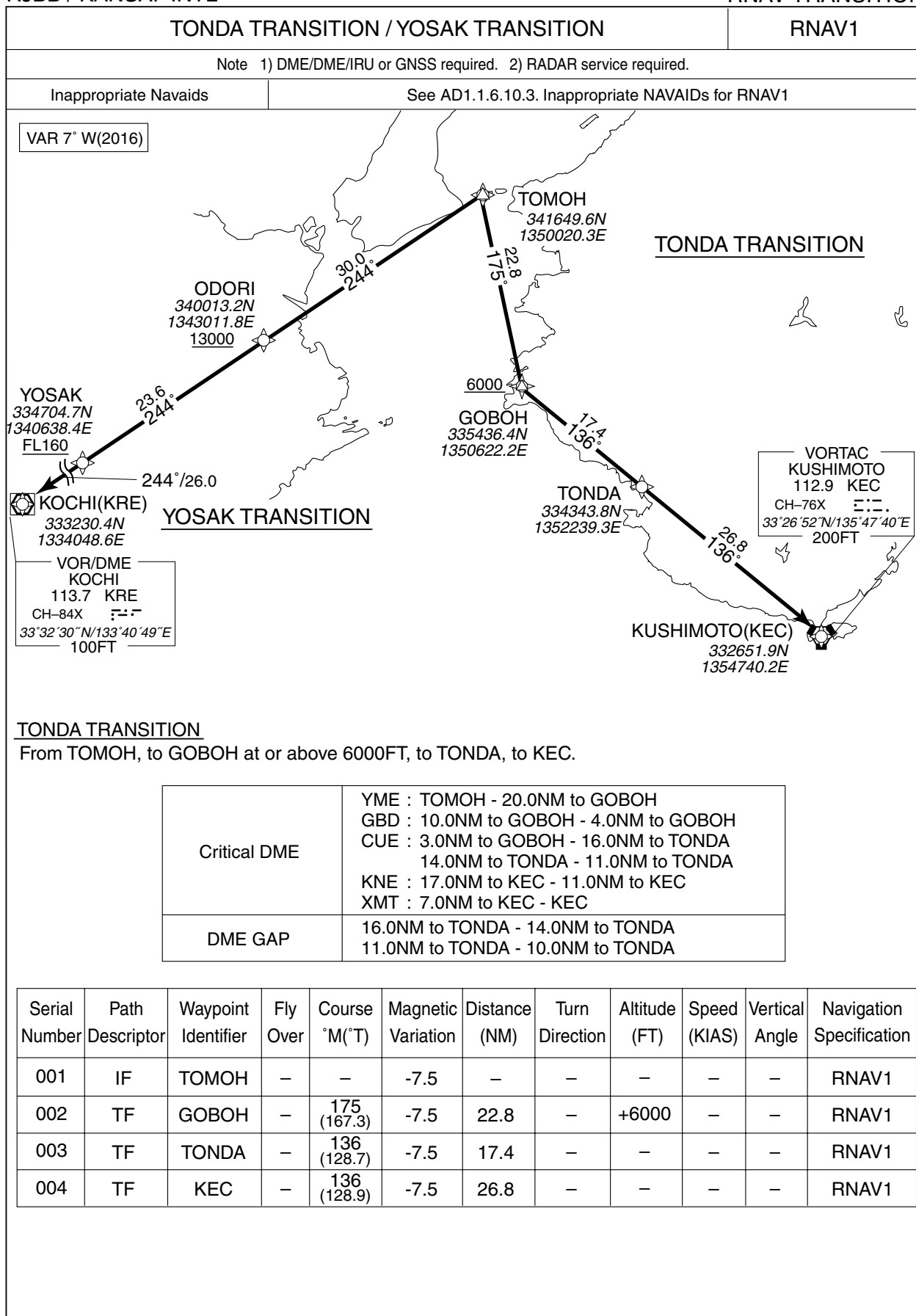
RWY24L

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4L30	—	—	-7.4	—	—	—	—	—	RNAV1
003	TF	TOMOH	—	236 (229.1)	-7.4	5.2	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

YOSAK TRANSITION

From TOMOH, to ODORI at or above 13000FT, to YOSAK at or above FL160, to KRE.

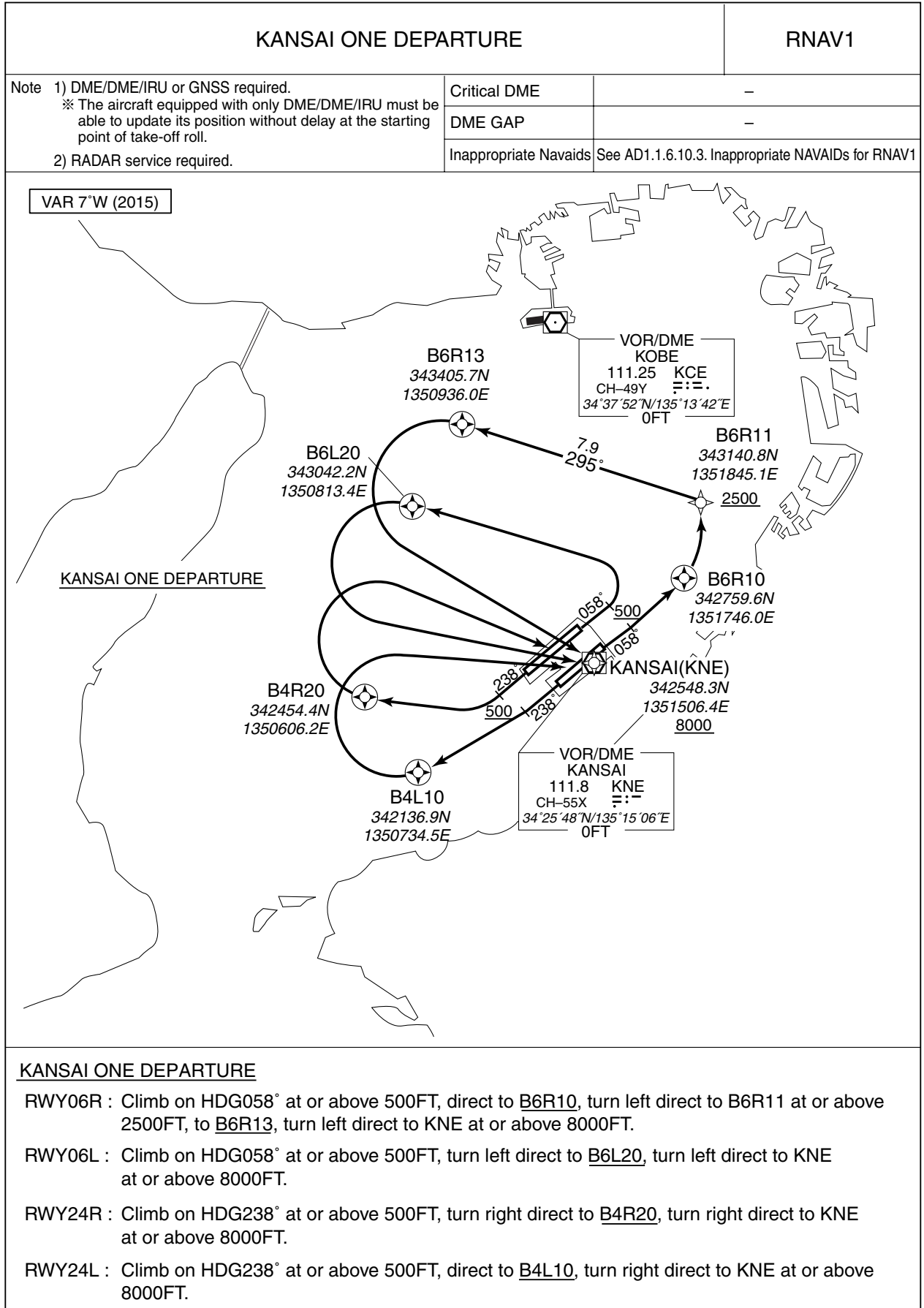
Critical DME	—
DME GAP	—

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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	ODORI	—	244 (236.5)	-7.5	30.0	—	+13000	—	—	RNAV1
003	TF	YOSAK	—	244 (236.2)	-7.5	23.6	—	+FL160	—	—	RNAV1
004	TF	KRE	—	244 (236.0)	-7.5	26.0	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

KANSAI 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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6R10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	B6R11	—	—	-7.4	—	L	+2500	—	—	RNAV1
004	TF	B6R13	Y	295 (287.8)	-7.4	7.9	—	—	—	—	RNAV1
005	DF	KNE	—	—	-7.4	—	L	+8000	—	—	RNAV1

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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6L20	Y	—	-7.4	—	L	—	—	—	RNAV1
003	DF	KNE	—	—	-7.4	—	L	+8000	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4R20	Y	—	-7.4	—	R	—	—	—	RNAV1
003	DF	KNE	—	—	-7.4	—	R	+8000	—	—	RNAV1

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4L10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	KNE	—	—	-7.4	—	R	+8000	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

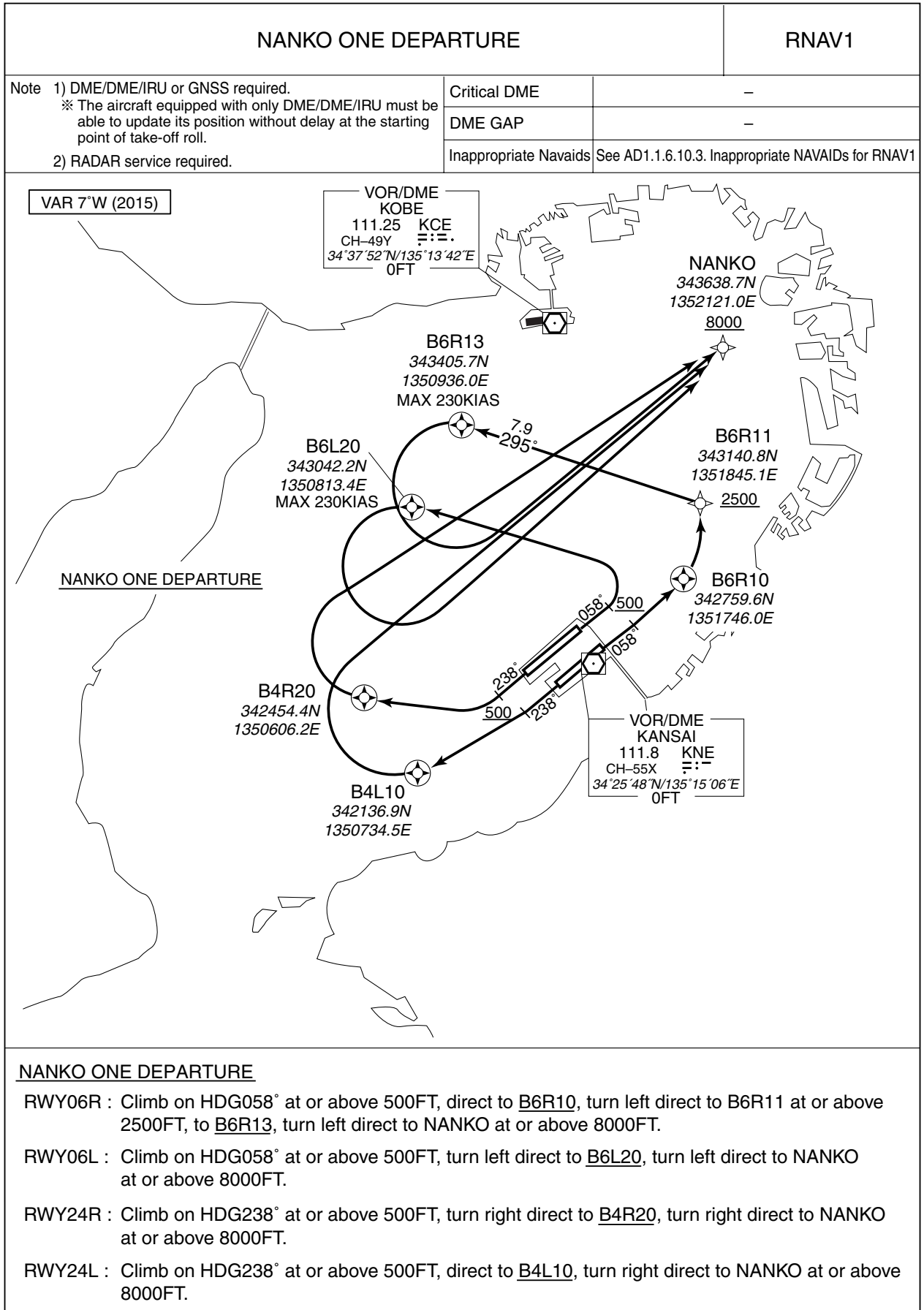
RNAV TRANSITION



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

NANKO 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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6R10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	B6R11	—	—	-7.4	—	L	+2500	—	—	RNAV1
004	TF	B6R13	Y	295 (287.8)	-7.4	7.9	—	—	-230	—	RNAV1
005	DF	NANKO	—	—	-7.4	—	L	+8000	—	—	RNAV1

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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6L20	Y	—	-7.4	—	L	—	-230	—	RNAV1
003	DF	NANKO	—	—	-7.4	—	L	+8000	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4R20	Y	—	-7.4	—	R	—	—	—	RNAV1
003	DF	NANKO	—	—	-7.4	—	R	+8000	—	—	RNAV1

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4L10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	NANKO	—	—	-7.4	—	R	+8000	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

SIGAK TRANSITION / NAGOYA TRANSITION

RNAV1

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

Inappropriate Navaids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2014)

SIGAK TRANSITION

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

Critical DME	ITE : 8.0NM to SIGAK - 5.0NM to SIGAK SIGAK - 30.0NM to GUJYO YME : 33.0NM to GUJYO - 30.0NM to GUJYO XMT : 20.0NM to GUJYO - 13.0NM to GUJYO
DME GAP	—

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	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	OGURA	—	051 (043.4)	-7.2	15.6	—	—	—	—	RNAV1
003	TF	KYOTO	—	085 (077.7)	-7.2	8.7	—	—	—	—	RNAV1
004	TF	SIGAK	—	085 (077.4)	-7.2	15.2	—	—	—	—	RNAV1
005	TF	GUJYO	—	049 (042.0)	-7.2	38.7	—	—	—	—	RNAV1

NAGOYA TRANSITION

From NANKO, to OGURA, to KYOTO, to SIGAK, to KCC.

Critical DME	ITE : 8.0NM to SIGAK - 5.0NM to SIGAK
DME GAP	—

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	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	OGURA	—	051 (043.4)	-7.2	15.6	—	—	—	—	RNAV1
003	TF	KYOTO	—	085 (077.7)	-7.2	8.7	—	—	—	—	RNAV1
004	TF	SIGAK	—	085 (077.4)	-7.2	15.2	—	—	—	—	RNAV1
005	TF	KCC	—	069 (061.6)	-7.2	48.3	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

HELEN 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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6R10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	B6R11	—	—	-7.4	—	L	+2500	—	—	RNAV1
004	TF	HELEN	—	295 (287.8)	-7.4	10.3	—	—	—	—	RNAV1
005	TF	MAIKO	—	295 (287.7)	-7.4	6.1	—	—	—	—	RNAV1

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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	HELEN	—	—	-7.4	—	L	—	—	—	RNAV1
003	TF	MAIKO	—	295 (287.7)	-7.4	6.1	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB430	—	—	-7.4	—	R	—	-210	—	RNAV1
003	TF	HELEN	—	024 (016.6)	-7.4	10.7	—	+8000	—	—	RNAV1
004	TF	MAIKO	—	295 (287.7)	-7.4	6.1	—	—	—	—	RNAV1

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4L10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	BB430	—	—	-7.4	—	R	—	-210	—	RNAV1
004	TF	HELEN	—	024 (016.6)	-7.4	10.7	—	+8000	—	—	RNAV1
005	TF	MAIKO	—	295 (287.7)	-7.4	6.1	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

IWAYA ONE DEPARTURE

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB430	—	—	-7.4	—	R	—	—	—	RNAV1
003	TF	HELEN	—	024 (016.6)	-7.4	10.7	—	+8000	—	—	RNAV1
004	TF	MAIKO	—	295 (287.7)	-7.4	6.1	—	—	—	—	RNAV1

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	BB430	—	—	-7.4	—	R	—	—	—	RNAV1
003	TF	HELEN	—	024 (016.6)	-7.4	10.7	—	+8000	—	—	RNAV1
004	TF	MAIKO	—	295 (287.7)	-7.4	6.1	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

SHION TRANSITION / SOUJA TRANSITION / WASYU TRANSITION / HABAR TRANSITION

RNAV1

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

Inappropriate Navaids

See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 7° W(2009)



SHION TRANSITION

From MAIKO, to WENDY, to SHION.

Critical DME	—
DME GAP	—

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	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	WENDY	—	247 (239.6)	-7.2	8.9	—	—	—	—	RNAV1
003	TF	SHION	—	264 (257.0)	-7.2	28.4	—	—	—	—	RNAV1

SOUJA TRANSITION

From MAIKO, to WENDY, to SHION, to SOUJA.

Critical DME	—
DME GAP	—

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	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	WENDY	—	247 (239.6)	-7.2	8.9	—	—	—	—	RNAV1
003	TF	SHION	—	264 (257.0)	-7.2	28.4	—	—	—	—	RNAV1
004	TF	SOUJA	—	301 (294.1)	-7.2	29.4	—	—	—	—	RNAV1

WASYU TRANSITION

From MAIKO, to WENDY, to SHION, to WASYU.

Critical DME	—
DME GAP	—

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	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	WENDY	—	247 (239.6)	-7.2	8.9	—	—	—	—	RNAV1
003	TF	SHION	—	264 (257.0)	-7.2	28.4	—	—	—	—	RNAV1
004	TF	WASYU	—	281 (273.6)	-7.2	44.6	—	—	—	—	RNAV1

HABAR TRANSITION

From MAIKO, to WENDY, to SHION, to HABAR.

Critical DME	—
DME GAP	—

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	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	WENDY	—	247 (239.6)	-7.2	8.9	—	—	—	—	RNAV1
003	TF	SHION	—	264 (257.0)	-7.2	28.4	—	—	—	—	RNAV1
004	TF	HABAR	—	267 (259.4)	-7.2	35.0	—	—	—	—	RNAV1

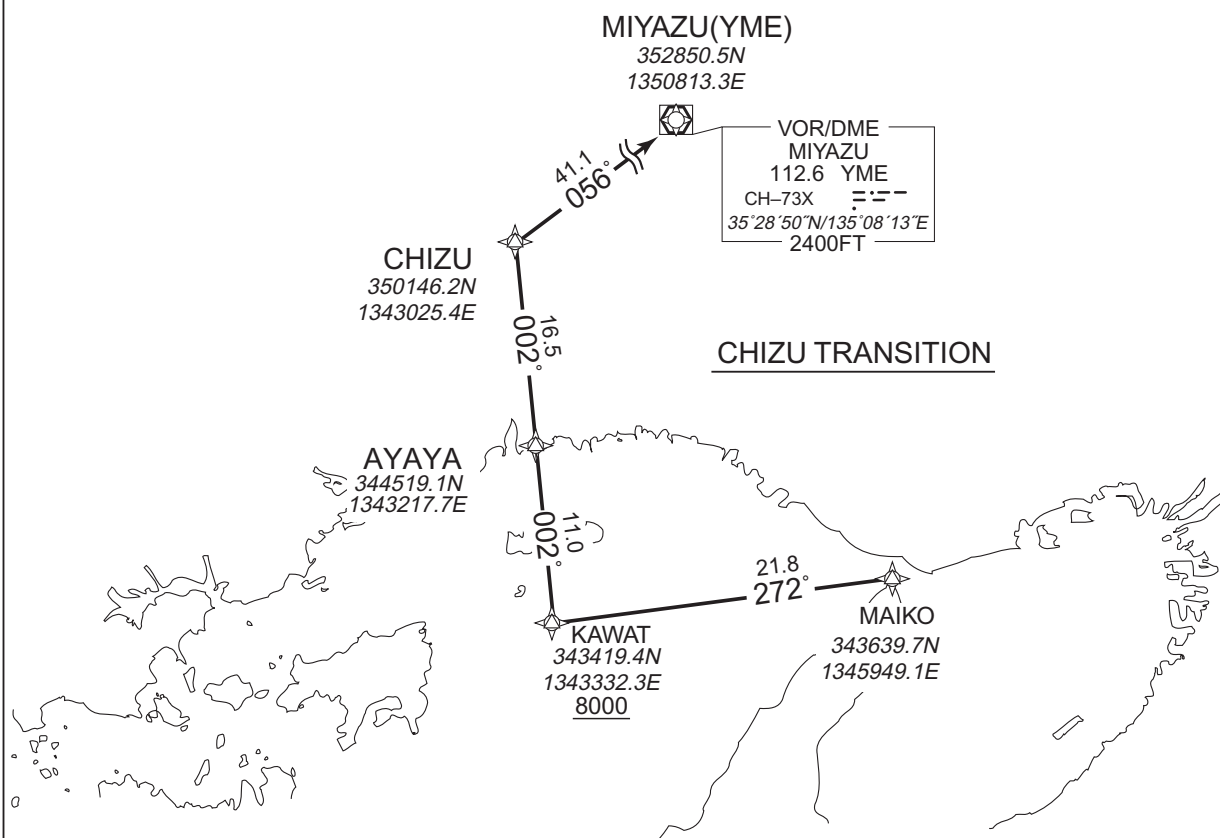
STANDARD DEPARTURE CHART - INSTRUMENT

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RNAV TRANSITION

CHIZU TRANSITION			RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	KNE : 17.1NM to YME - 14.1NM to YME YME : 17.1NM to YME - 14.1NM to YME	
	DME GAP	—	
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.	

VAR 8° W(2019)

CHIZU TRANSITION

From MAIKO, to KAWAT at or above 8000FT, to AYAYA, to CHIZU, to YME.

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	—	—	-7.7	—	—	—	—	—	RNAV1
002	TF	KAWAT	—	272 (264.0)	-7.7	21.8	—	+8000	—	—	RNAV1
003	TF	AYAYA	—	002 (354.7)	-7.7	11.0	—	—	—	—	RNAV1
004	TF	CHIZU	—	002 (354.7)	-7.7	16.5	—	—	—	—	RNAV1
005	TF	YME	—	056 (048.6)	-7.7	41.1	—	—	—	—	RNAV1

CHANGE : VAR. AYAYA established. Course FM MAIKO to KAWAT.

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RNAV SID



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RNAV SID

DAISY 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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B6R10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	B6R11	—	—	-7.4	—	L	+2500	—	—	RNAV1
004	TF	B6R12	—	295 (287.8)	-7.4	8.5	—	—	—	—	RNAV1
005	TF	DAISY	—	235 (228.0)	-7.4	6.3	—	—	—	—	RNAV1
006	TF	JULIA	—	279 (271.4)	-7.4	4.0	—	+8000	—	—	RNAV1
007	TF	LINDA	—	279 (271.4)	-7.4	5.4	—	—	—	—	RNAV1
008	TF	GLORY	—	255 (247.2)	-7.4	6.9	—	—	—	—	RNAV1

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	—	—	058 (050.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	DAISY	—	—	-7.4	—	L	—	—	—	RNAV1
003	TF	JULIA	—	279 (271.4)	-7.4	4.0	—	+8000	—	—	RNAV1
004	TF	LINDA	—	279 (271.4)	-7.4	5.4	—	—	—	—	RNAV1
005	TF	GLORY	—	255 (247.2)	-7.4	6.9	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

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RNAV SID

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	DAISY	—	—	-7.4	—	R	+6000	—	—	RNAV1
003	TF	JULIA	—	279 (271.4)	-7.4	4.0	—	+8000	—	—	RNAV1
004	TF	LINDA	—	279 (271.4)	-7.4	5.4	—	—	—	—	RNAV1
005	TF	GLORY	—	255 (247.2)	-7.4	6.9	—	—	—	—	RNAV1

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	—	—	238 (230.9)	-7.4	—	—	+500	—	—	RNAV1
002	DF	B4L10	Y	—	-7.4	—	—	—	—	—	RNAV1
003	DF	BB430	—	—	-7.4	—	R	—	-210	—	RNAV1
004	TF	DAISY	—	008 (000.2)	-7.4	5.4	—	+6000	—	—	RNAV1
005	TF	JULIA	—	279 (271.4)	-7.4	4.0	—	+8000	—	—	RNAV1
006	TF	LINDA	—	279 (271.4)	-7.4	5.4	—	—	—	—	RNAV1
007	TF	GLORY	—	255 (247.2)	-7.4	6.9	—	—	—	—	RNAV1

STANDARD DEPARTURE CHART - INSTRUMENT

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RNAV TRANSITION



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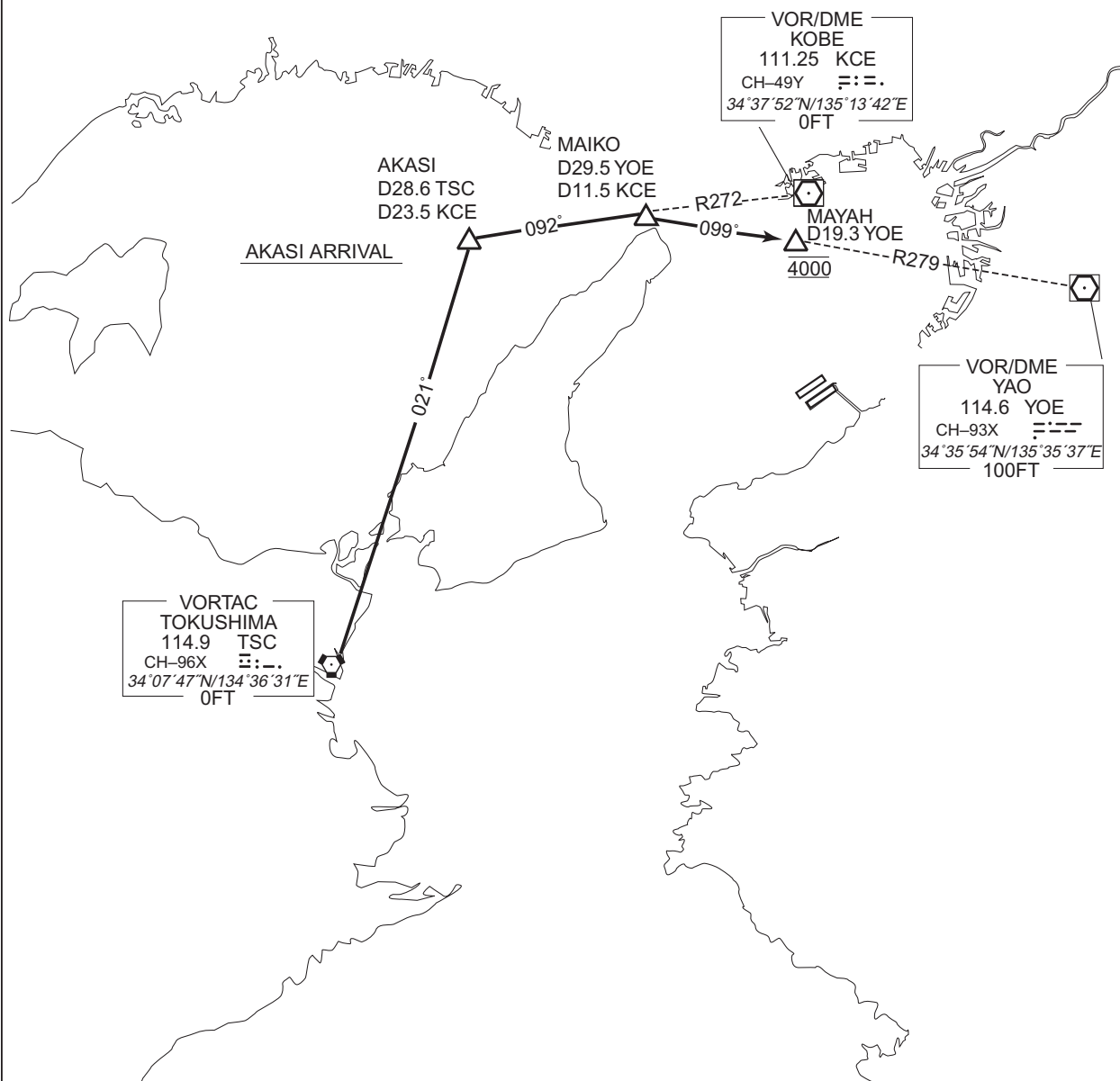
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STAR

AKASI ARRIVAL

From over TSC VORTAC, proceed via TSC R021 to AKASI, via KCE R272 to MAIKO, via YOE R279 to MAYAH.

Cross MAYAH at 4000FT.



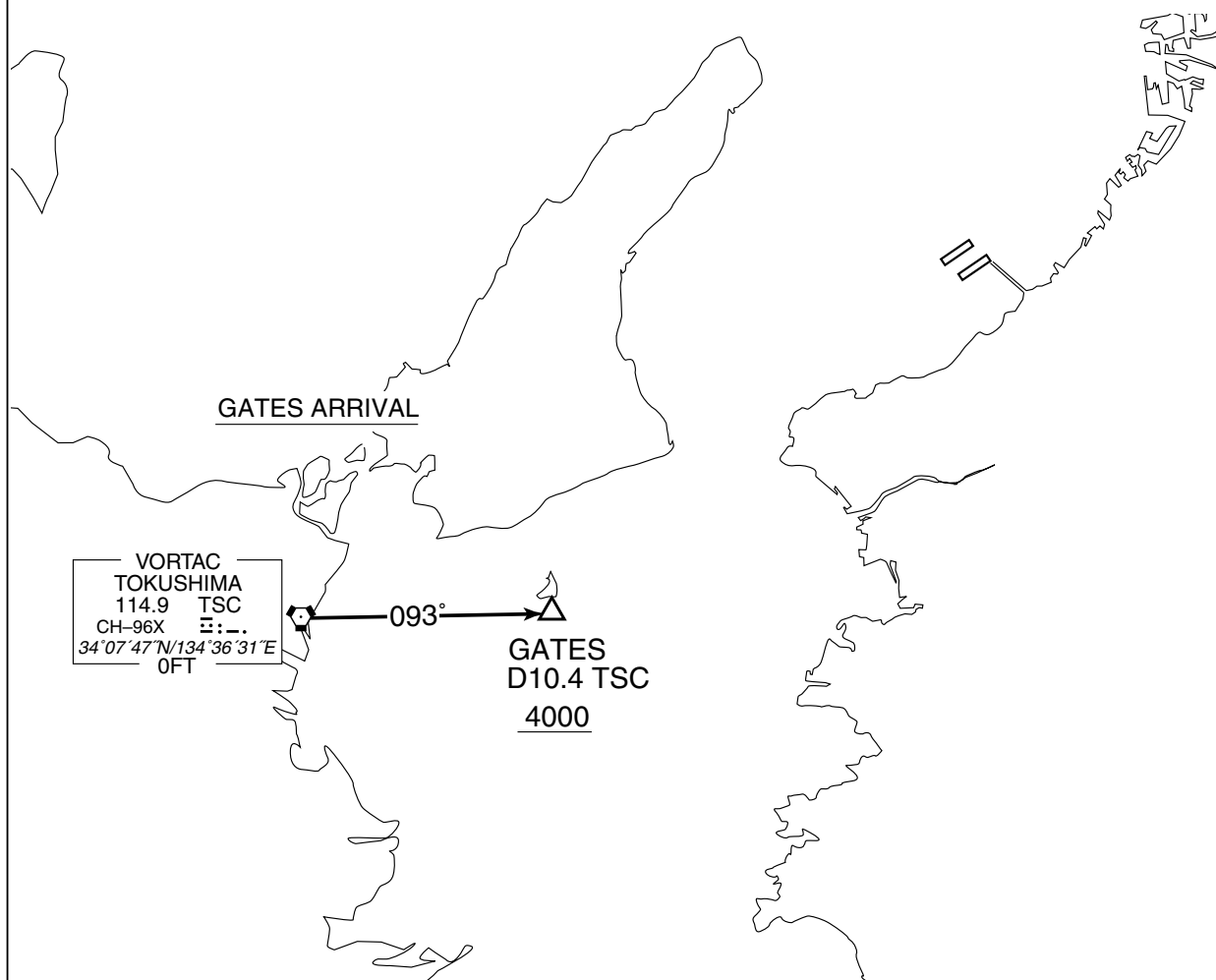
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STAR

GATES ARRIVAL

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



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STAR

ATACK ARC ARRIVAL

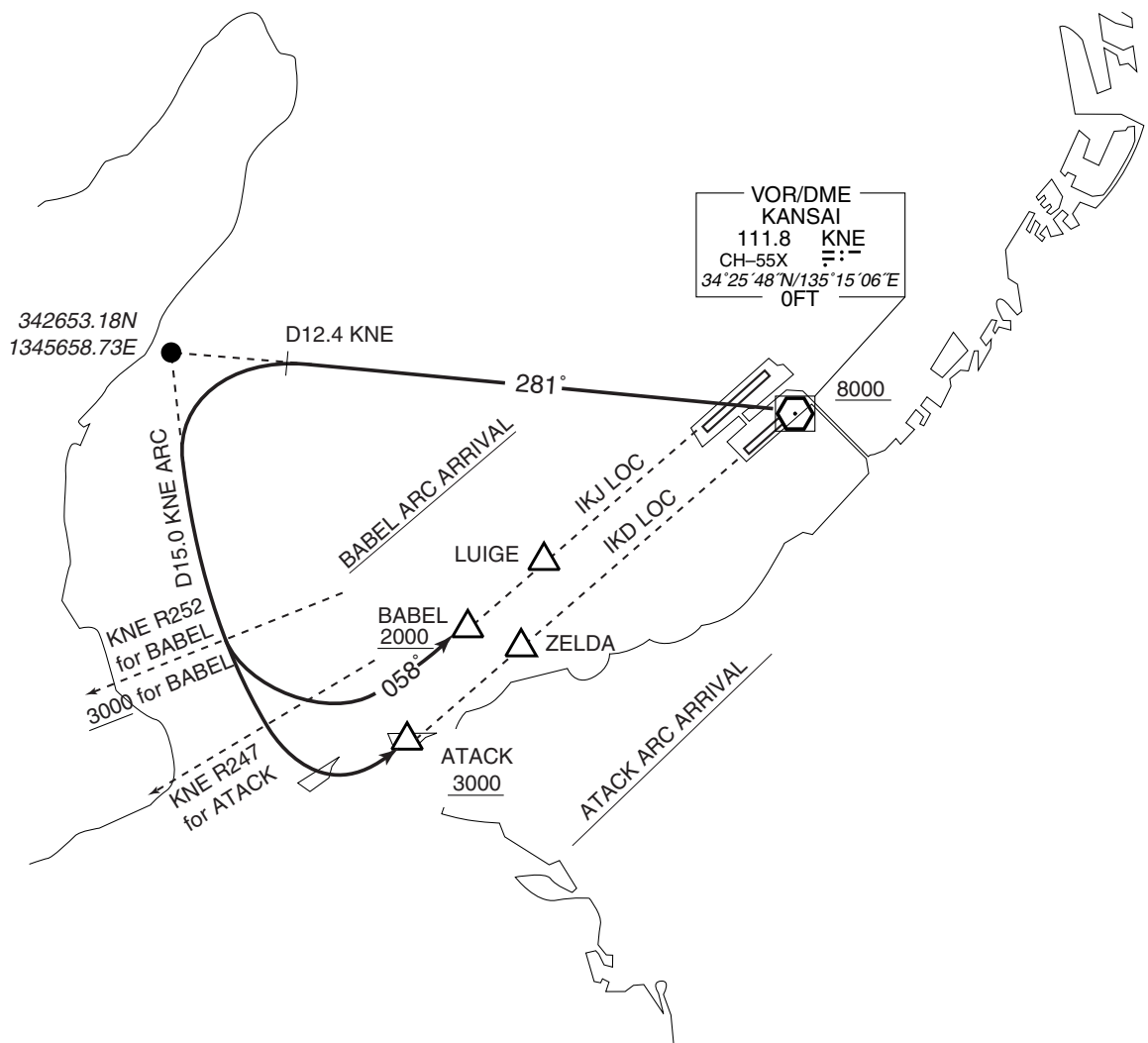
From over KNE VOR/DME, proceed via KNE R281, turn left via KNE 15.0DME counterclockwise ARC, turn left to intercept and proceed via IKD-LOC to ATACK.

Cross KNE VOR/DME at or above 8000FT, cross ATACK at or above 3000FT.

BABEL ARC ARRIVAL

From over KNE VOR/DME, proceed via KNE R281, turn left via KNE 15.0DME counterclockwise ARC, turn left to intercept and proceed via IKJ-LOC to BABEL.

Cross KNE VOR/DME at or above 8000FT, cross KNE R252 at or above 3000FT, cross BABEL at or above 2000FT.



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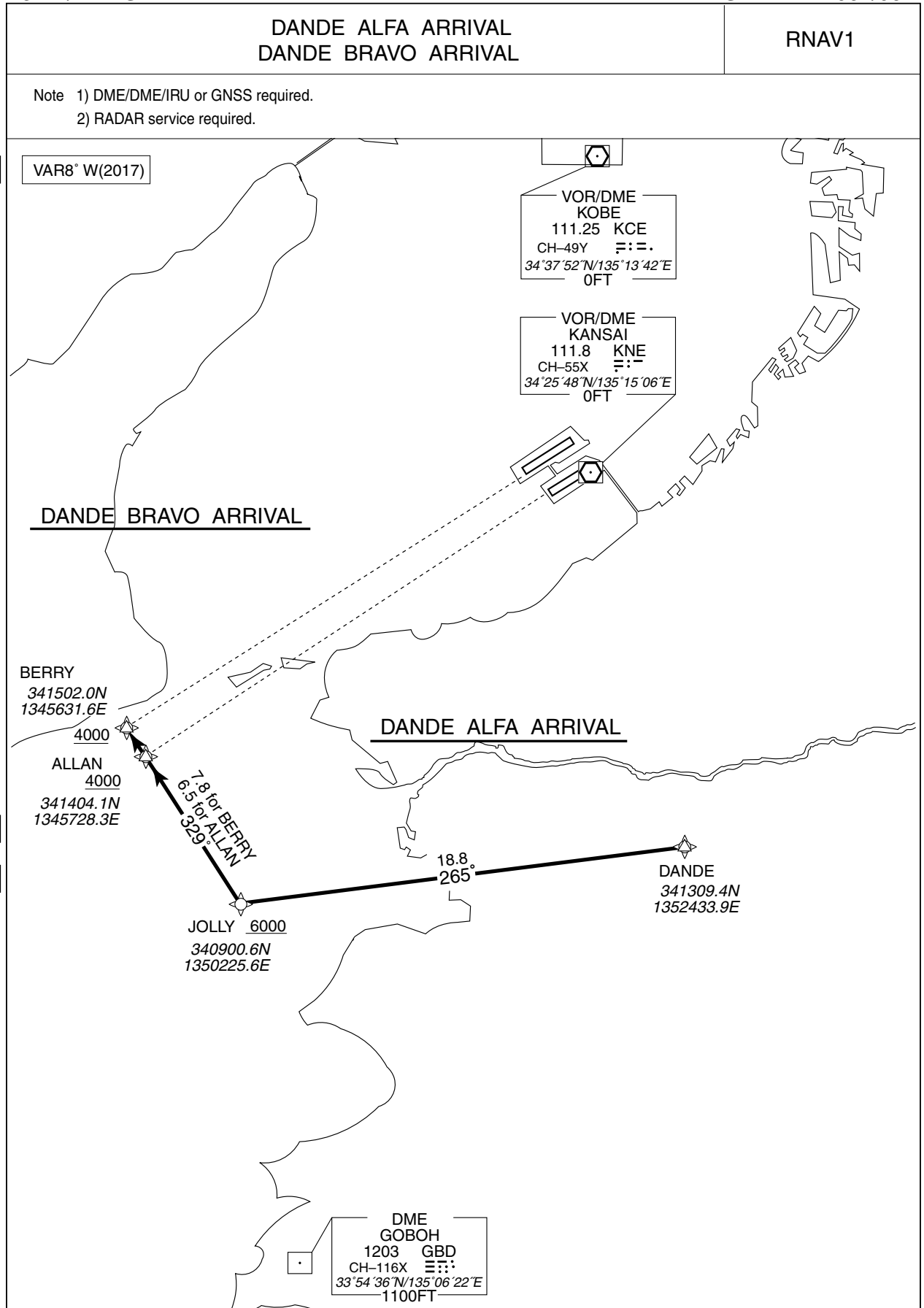
STAR

From over KNE VOR/DME, proceed via KNE R283, turn right via KNE 10.9DME clockwise ARC to MAYAH.

STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY06L/06R



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DANDE ALFA ARRIVAL

From DANDE, to JOLLY at or above 6000FT, to ALLAN at or above 4000FT.

Critical DME	OKT : 16.0NM to JOLLY - 14.0NM to JOLLY TZT : 14.0NM to JOLLY - 13.0NM to JOLLY 4.0NM to JOLLY - ALLAN GBD : DANDE - ALLAN
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	DANDE	—	—	█ -7.6	—	—	—	—	—	RNAV1
002	TF	JOLLY	—	█ 265 (257.3)	█ -7.6	18.8	—	+6000	—	—	RNAV1
003	TF	ALLAN	—	█ 329 (321.0)	█ -7.6	6.5	—	+4000	—	—	RNAV1

DANDE BRAVO ARRIVAL

From DANDE, to JOLLY at or above 6000FT, to BERRY at or above 4000FT.

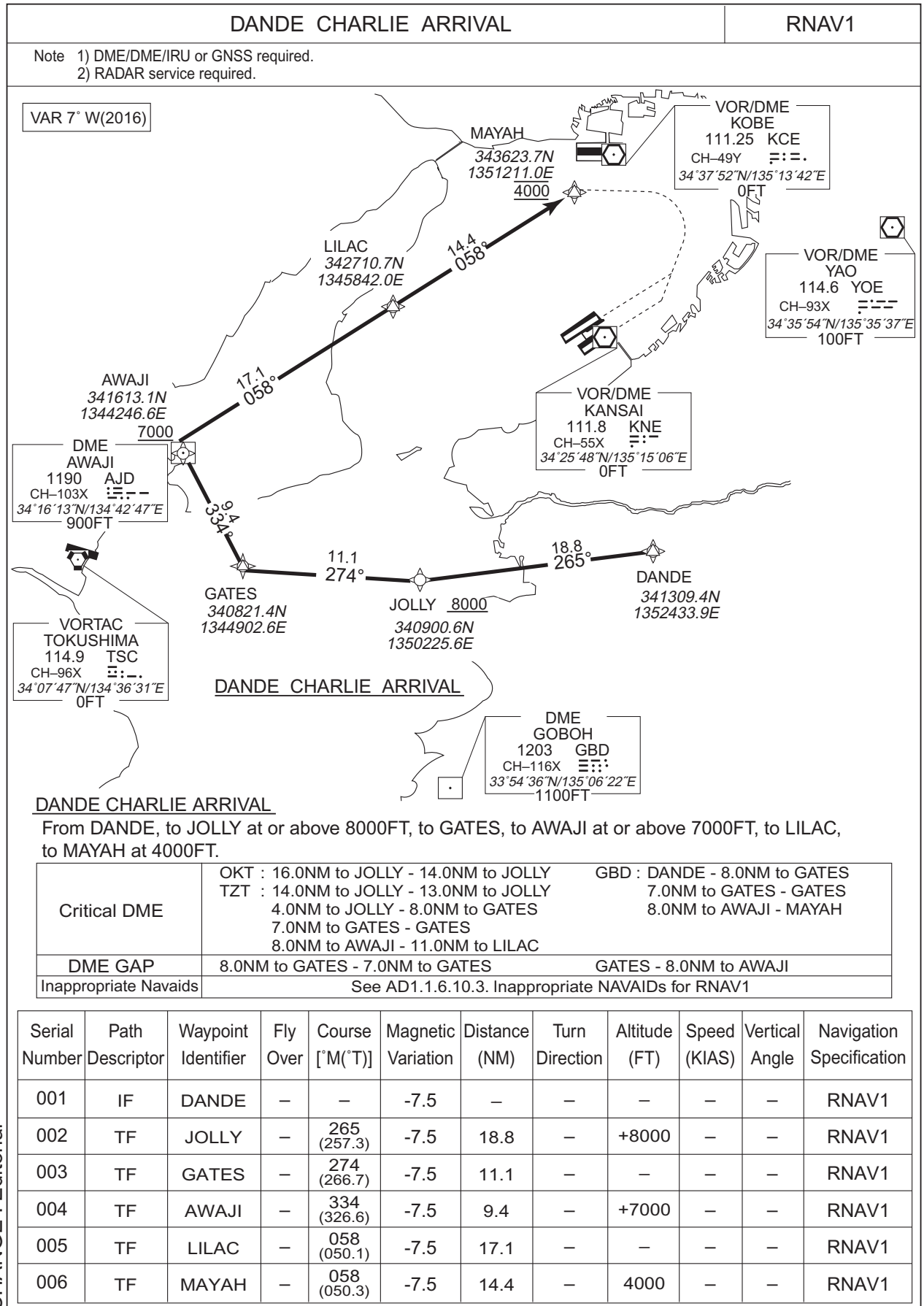
Critical DME	OKT : 16.0NM to JOLLY - 14.0NM to JOLLY TZT : 14.0NM to JOLLY - 13.0NM to JOLLY 4.0NM to JOLLY - BERRY GBD : DANDE - BERRY
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	DANDE	—	—	█ -7.6	—	—	—	—	—	RNAV1
002	TF	JOLLY	—	█ 265 (257.3)	█ -7.6	18.8	—	+6000	—	—	RNAV1
003	TF	BERRY	—	█ 329 (321.0)	█ -7.6	7.8	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

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CHANGE : Editorial

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ALISA BRAVO ARRIVAL

From ALISA, to TANTA at or above 6000FT, NALTO, to ASAMI, to BAGLE, to BERRY at or above 4000FT.

Critical DME	AJD : 12.0NM to NALTO - NALTO KNE : 1.7NM to ASAMI - 4.2NM to BERRY
DME GAP	—
Inappropriate NavAids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ALISA	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	TANTA	—	139 (132.3)	-7.2	21.7	—	+6000	—	—	RNAV1
003	TF	NALTO	—	126 (118.4)	-7.2	14.8	—	—	—	—	RNAV1
004	TF	ASAMI	—	110 (103.0)	-7.2	4.7	—	—	—	—	RNAV1
005	TF	BAGLE	—	057 (049.9)	-7.2	4.5	—	—	—	—	RNAV1
006	TF	BERRY	—	043 (036.0)	-7.2	5.2	—	+4000	—	—	RNAV1

BECKY ALFA ARRIVAL

From BECKY, to EVIAN at or above 6000FT, to ASAMI, to BAGLE, to ALLAN at or above 4000FT.

Critical DME	KNE : ASAMI - 4.0NM to ALLAN
DME GAP	—
Inappropriate NavAids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	EVIAN	—	057 (049.5)	-7.2	7.0	—	+6000	—	—	RNAV1
003	TF	ASAMI	—	057 (049.6)	-7.2	12.8	—	—	—	—	RNAV1
004	TF	BAGLE	—	057 (049.9)	-7.2	4.5	—	—	—	—	RNAV1
005	TF	ALLAN	—	057 (049.9)	-7.2	5.0	—	+4000	—	—	RNAV1

BECKY BRAVO ARRIVAL

From BECKY, to EVIAN at or above 6000FT, to ASAMI, to BAGLE, to BERRY at or above 4000FT.

Critical DME	KNE : ASAMI - 4.2NM to BERRY
DME GAP	—
Inappropriate NavAids	See AD1.1.6.10.3. Inappropriate NAVAIDS for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	EVIAN	—	057 (049.5)	-7.2	7.0	—	+6000	—	—	RNAV1
003	TF	ASAMI	—	057 (049.6)	-7.2	12.8	—	—	—	—	RNAV1
004	TF	BAGLE	—	057 (049.9)	-7.2	4.5	—	—	—	—	RNAV1
005	TF	BERRY	—	043 (036.0)	-7.2	5.2	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY06L/06R

CANDY ALFA ARRIVAL

From CANDY, to DATIS at or above 6000FT, to ALLAN at or above 4000FT.

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

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	DATIS	—	011 (003.9)	-7.2	6.4	—	+6000	—	—	RNAV1
003	TF	ALLAN	—	011 (003.9)	-7.2	15.2	—	+4000	—	—	RNAV1

CANDY BRAVO ARRIVAL

From CANDY, to DATIS at or above 6000FT, to BERRY at or above 4000FT.

Critical DME	KNE : 15.1NM to BERRY - 14.1NM to BERRY 8.1NM to BERRY - 6.1NM to BERRY
DME GAP	—
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	DATIS	—	011 (003.9)	-7.2	6.4	—	+6000	—	—	RNAV1
003	TF	BERRY	—	008 (000.9)	-7.2	16.2	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY24L/24R



STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY24L/24R

BECKY CHARLIE ARRIVAL

From BECKY, to NALTO, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

Critical DME	GBD : 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH TZZ : AWAJI - 11.0NM to LILAC
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	NALTO	—	045 (037.2)	-7.5	17.4	—	—	—	—	RNAV1
003	TF	AWAJI	—	005 (357.1)	-7.5	7.2	—	+7000	—	—	RNAV1
004	TF	LILAC	—	058 (050.1)	-7.5	17.1	—	—	—	—	RNAV1
005	TF	MAYAH	—	058 (050.3)	-7.5	14.4	—	4000	—	—	RNAV1

CANDY CHARLIE ARRIVAL

From CANDY, to NALTO, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

Critical DME	GBD : 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH KNE : 16.5NM to NALTO - NALTO TZZ : AWAJI - 11.0NM to LILAC
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	NALTO	—	335 (328.0)	-7.5	19.5	—	—	—	—	RNAV1
003	TF	AWAJI	—	005 (357.1)	-7.5	7.2	—	+7000	—	—	RNAV1
004	TF	LILAC	—	058 (050.1)	-7.5	17.1	—	—	—	—	RNAV1
005	TF	MAYAH	—	058 (050.3)	-7.5	14.4	—	4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY06L/06R

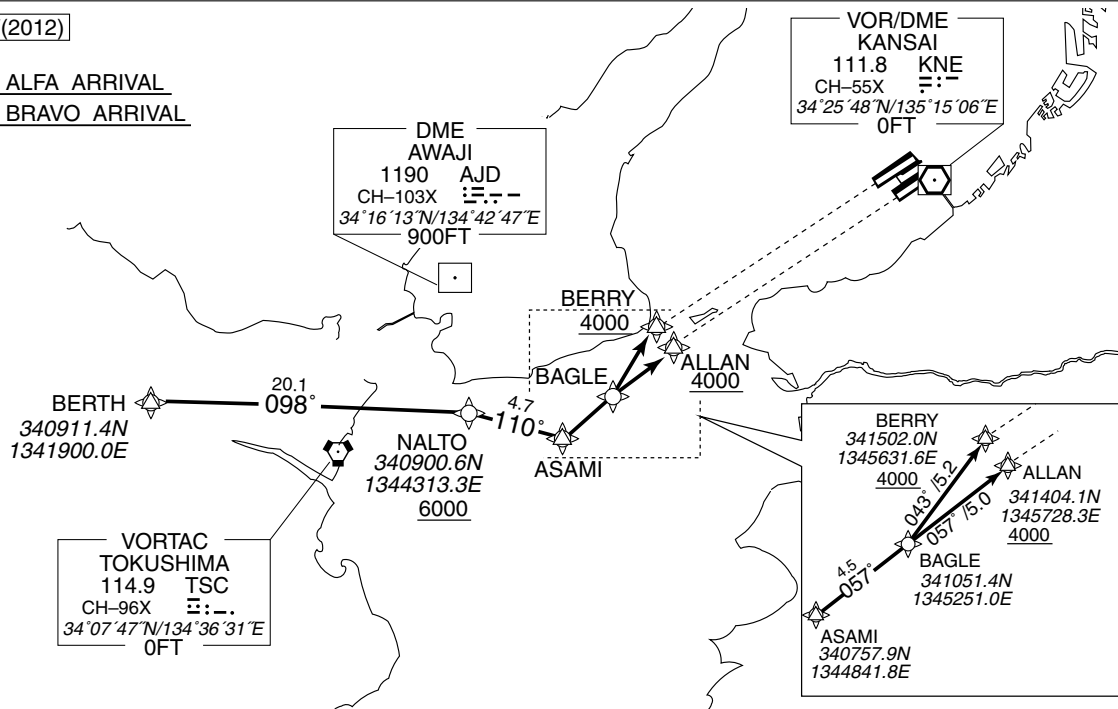
BERTH ALFA / BRAVO ARRIVAL

RNAV1

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

VAR 7° W(2012)

BERTH ALFA ARRIVAL
BERTH BRAVO ARRIVAL

BERTH ALFA ARRIVAL

From BERTH, to NALTO at or above 6000FT, to ASAMI, to BAGLE, to ALLAN at or above 4000FT.

Critical DME	AJD : 8.1NM to NALTO - 5.1NM to NALTO KNE : 1.7NM to ASAMI - 4.0NM to ALLAN
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	NALTO	—	098 (090.4)	-7.2	20.1	—	+6000	—	—	RNAV1
003	TF	ASAMI	—	110 (103.0)	-7.2	4.7	—	—	—	—	RNAV1
004	TF	BAGLE	—	057 (049.9)	-7.2	4.5	—	—	—	—	RNAV1
005	TF	ALLAN	—	057 (049.9)	-7.2	5.0	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY06L/06R

BERTH BRAVO ARRIVAL

From BERTH, to NALTO at or above 6000FT, to ASAMI, to BAGLE, to BERRY at or above 4000FT.

Critical DME	AJD : 8.1NM to NALTO - 5.1NM to NALTO KNE : 1.7NM to ASAMI - 4.2NM to BERRY
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	—	—	-7.2	—	—	—	—	—	RNAV1
002	TF	NALTO	—	098 (090.4)	-7.2	20.1	—	+6000	—	—	RNAV1
003	TF	ASAMI	—	110 (103.0)	-7.2	4.7	—	—	—	—	RNAV1
004	TF	BAGLE	—	057 (049.9)	-7.2	4.5	—	—	—	—	RNAV1
005	TF	BERRY	—	043 (036.0)	-7.2	5.2	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

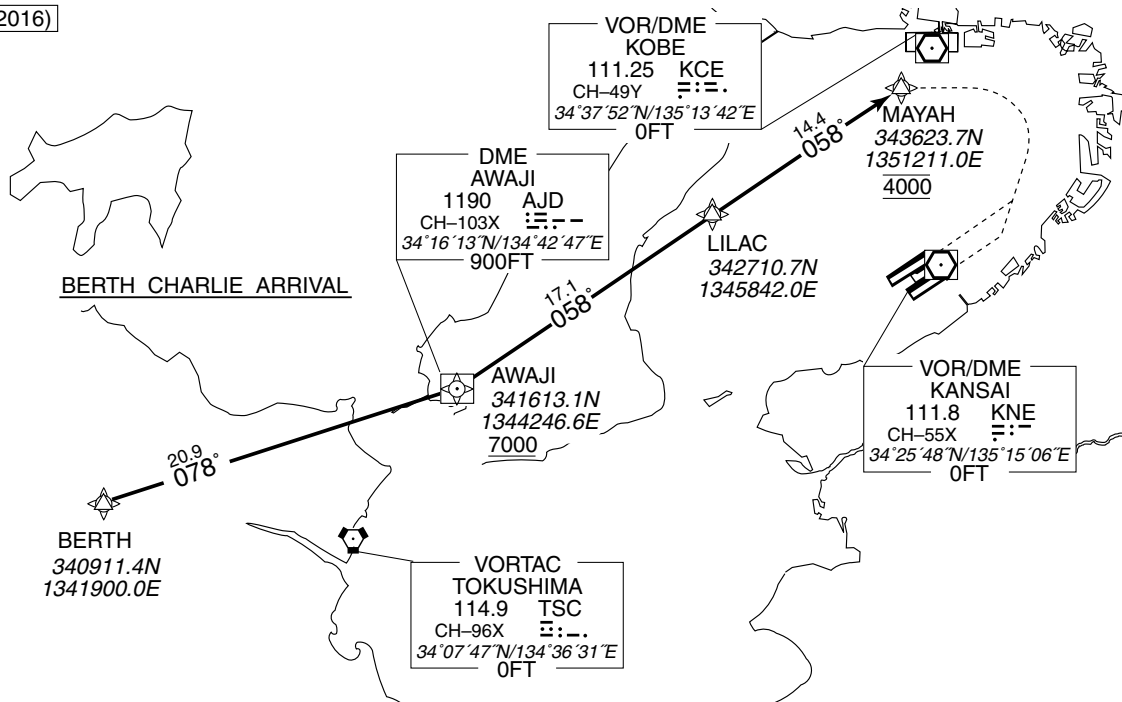
RNAV STAR RWY24L/24R

BERTH CHARLIE ARRIVAL

RNAV1

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

VAR 7° W(2016)



BERTH CHARLIE ARRIVAL

From BERTH, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

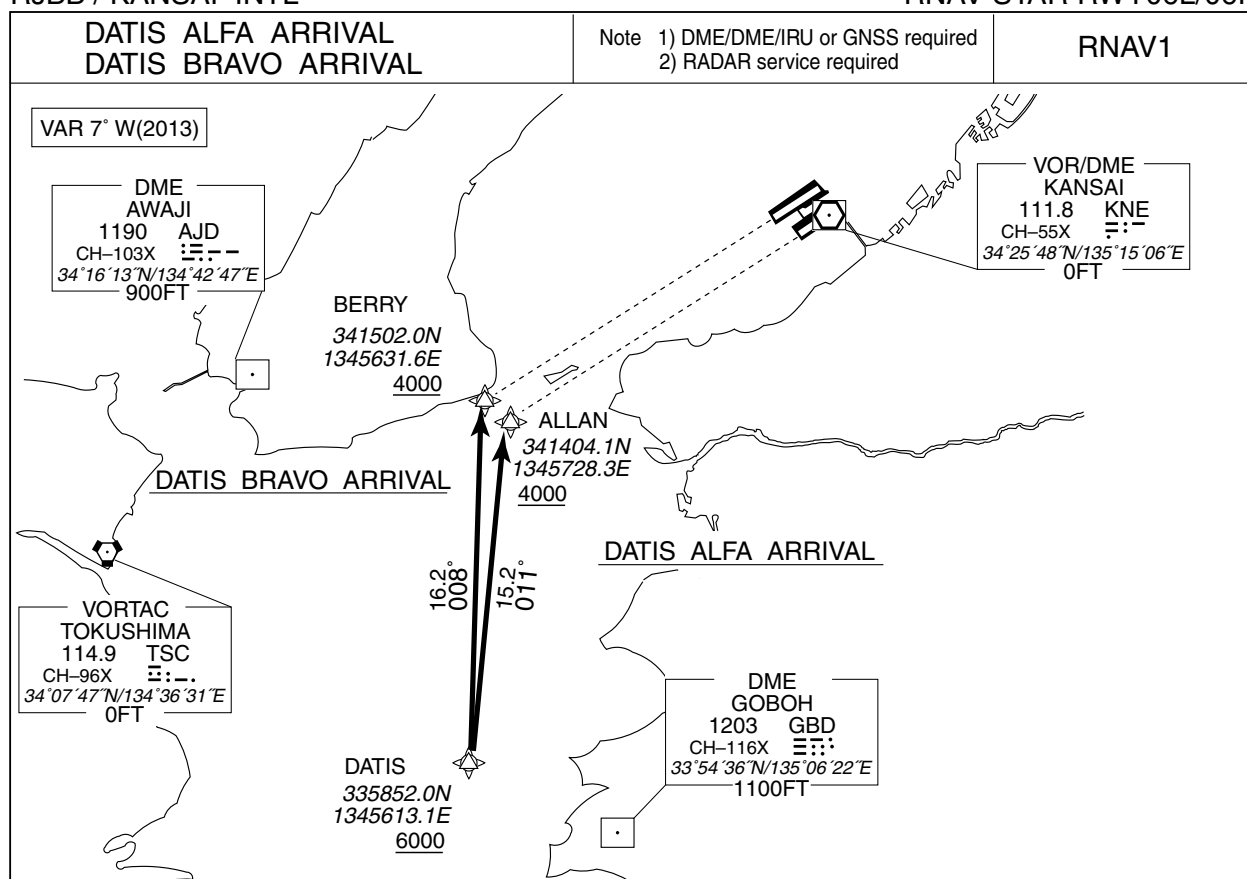
Critical DME	AJD : 10.9NM to AWAJI - 4.9NM to AWAJI KNE : 4.9NM to AWAJI - AWAJI TJT : AWAJI - 11.0NM to LILAC GBD : AWAJI - MAYAH
DME GAP	—
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	AWAJI	—	078 (070.2)	-7.5	20.9	—	+7000	—	—	RNAV1
003	TF	LILAC	—	058 (050.1)	-7.5	17.1	—	—	—	—	RNAV1
004	TF	MAYAH	—	058 (050.3)	-7.5	14.4	—	4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

DATIS ALFA ARRIVAL

From DATIS at or above 6000FT, to ALLAN at or above 4000FT.

Critical DME	—
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	DATIS	—	—	-7.2	—	—	+6000	—	—	RNAV1
002	TF	ALLAN	—	011 (003.9)	-7.2	15.2	—	+4000	—	—	RNAV1

DATIS BRAVO ARRIVAL

From DATIS at or above 6000FT, to BERRY at or above 4000FT.

Critical DME	KNE : 15.1NM to BERRY - 14.1NM to BERRY 8.1NM to BERRY - 6.1NM to BERRY
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	DATIS	—	—	-7.2	—	—	+6000	—	—	RNAV1
002	TF	BERRY	—	008 (000.9)	-7.2	16.2	—	+4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

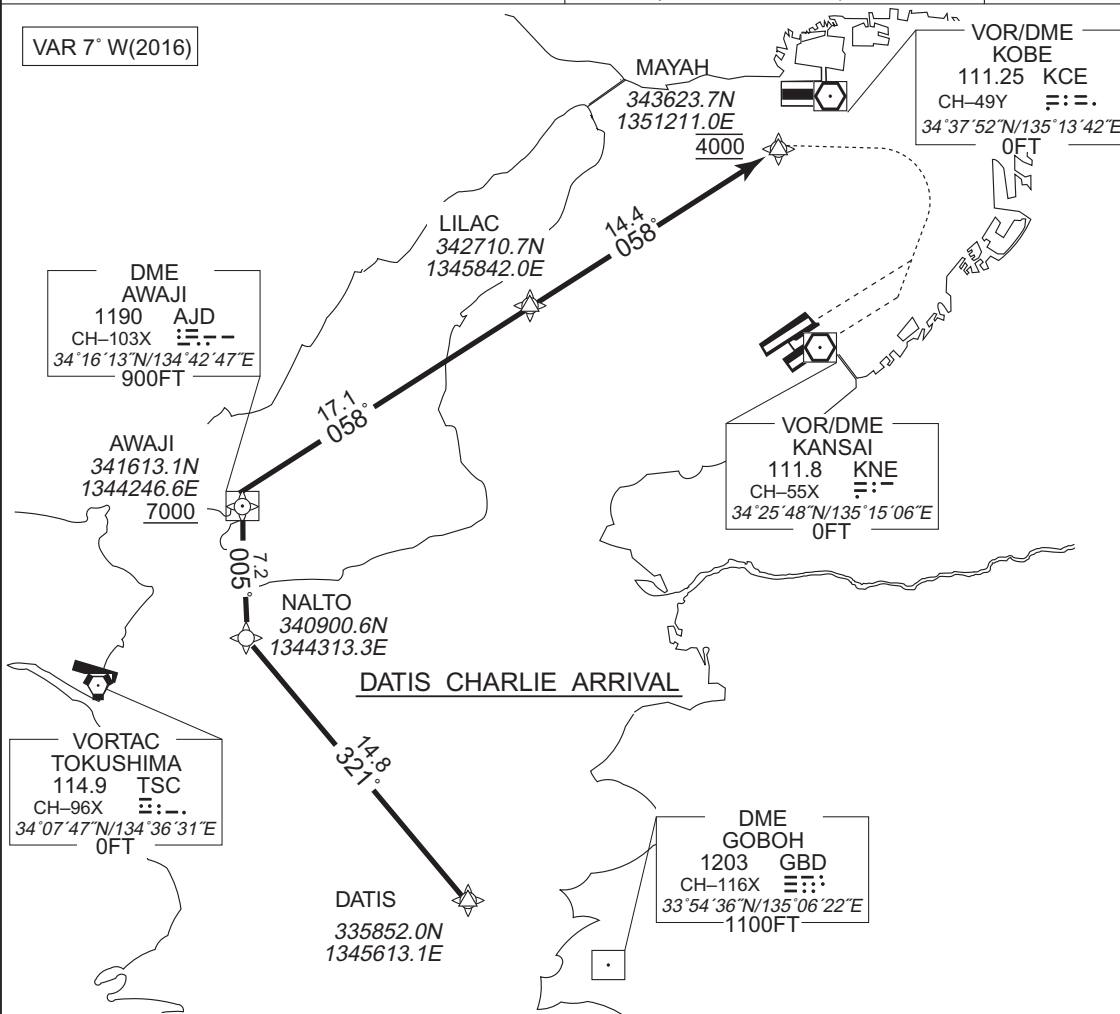
RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

DATIS CHARLIE ARRIVAL

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

RNAV1



DATIS CHARLIE ARRIVAL

From DATIS, to NALTO, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

Critical DME	GBD : 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH TZZ : AWAJI - 11.0NM to LILAC
DME GAP	—
Inappropriate NavAids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	DATIS	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	NALTO	—	321 (313.4)	-7.5	14.8	—	—	—	—	RNAV1
003	TF	AWAJI	—	005 (357.1)	-7.5	7.2	—	+7000	—	—	RNAV1
004	TF	LILAC	—	058 (050.1)	-7.5	17.1	—	—	—	—	RNAV1
005	TF	MAYAH	—	058 (050.3)	-7.5	14.4	—	4000	—	—	RNAV1

CHANGE : Editorial

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

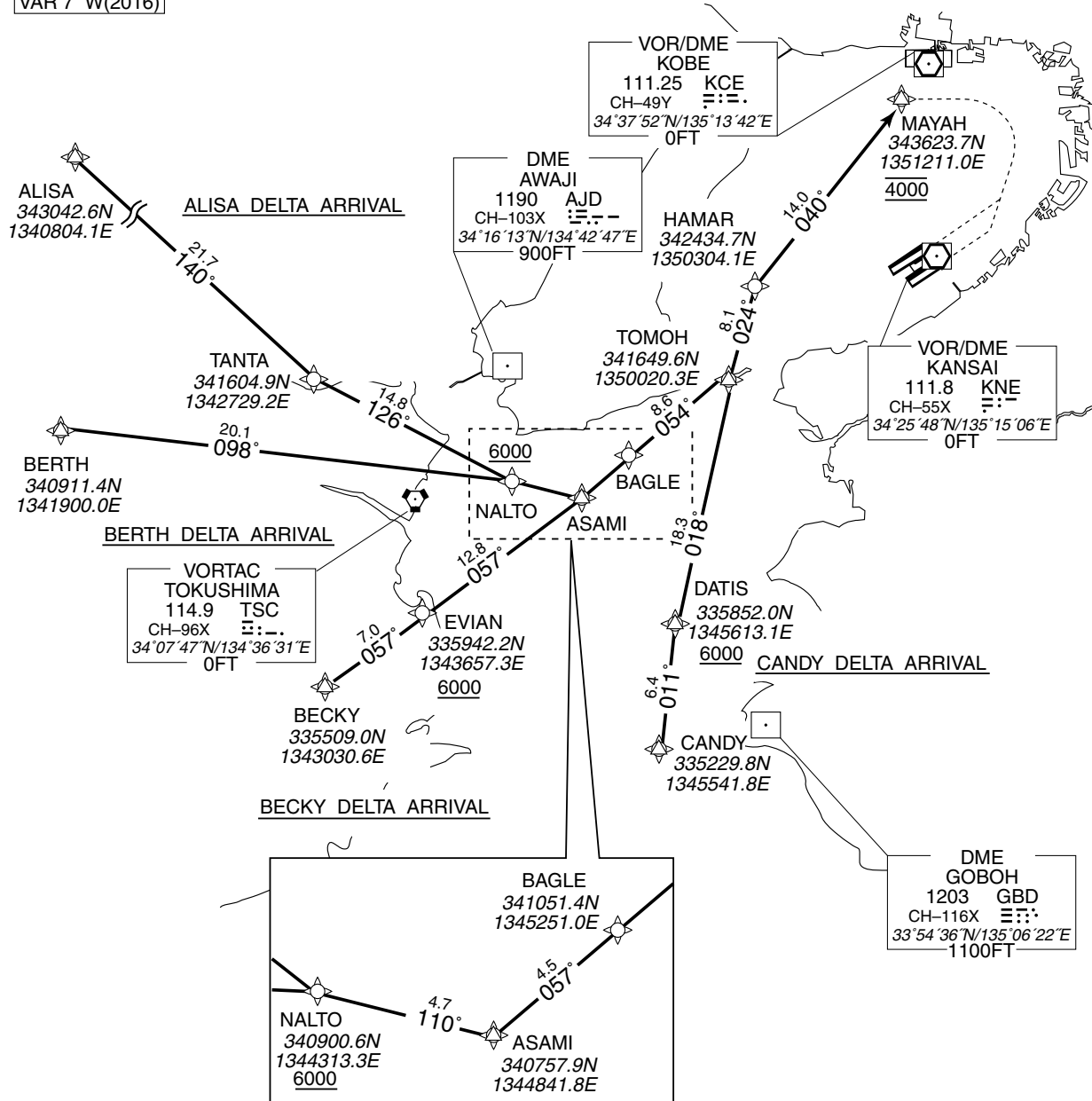
RNAV STAR RWY24L/24R

ALISA DELTA ARRIVAL
BECKY DELTA ARRIVAL
BERTH DELTA ARRIVAL
CANDY DELTA ARRIVAL

RNAV1

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

VAR 7° W(2016)



STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ALISA DELTA ARRIVAL

From ALISA, to TANTA, to NALTO at or above 6000FT, to ASAMI, to BAGLE, to TOMOH, to HAMAR, to MAYAH at 4000FT.

Critical DME	AJD : 2.0NM to MAYAH - MAYAH KNE : 1.7NM to ASAMI - BAGLE GBD : 7.1NM to HAMAR - 5.1NM to HAMAR
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ALISA	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	TANTA	—	140 (132.3)	-7.5	21.7	—	—	—	—	RNAV1
003	TF	NALTO	—	126 (118.4)	-7.5	14.8	—	+6000	—	—	RNAV1
004	TF	ASAMI	—	110 (103.0)	-7.5	4.7	—	—	—	—	RNAV1
005	TF	BAGLE	—	057 (049.9)	-7.5	4.5	—	—	—	—	RNAV1
006	TF	TOMOH	—	054 (046.0)	-7.5	8.6	—	—	—	—	RNAV1
007	TF	HAMAR	—	024 (016.2)	-7.5	8.1	—	—	—	—	RNAV1
008	TF	MAYAH	—	040 (032.4)	-7.5	14.0	—	4000	—	—	RNAV1

BECKY DELTA ARRIVAL

From BECKY, to EVIAN at or above 6000FT, to ASAMI, to BAGLE, to TOMOH, to HAMAR, to MAYAH at 4000FT.

Critical DME	KNE : ASAMI - BAGLE GBD : 7.1NM to HAMAR - 5.1NM to HAMAR AJD : 2.0NM to MAYAH - MAYAH
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	EVIAN	—	057 (049.5)	-7.5	7.0	—	+6000	—	—	RNAV1
003	TF	ASAMI	—	057 (049.6)	-7.5	12.8	—	—	—	—	RNAV1
004	TF	BAGLE	—	057 (049.9)	-7.5	4.5	—	—	—	—	RNAV1
005	TF	TOMOH	—	054 (046.0)	-7.5	8.6	—	—	—	—	RNAV1
006	TF	HAMAR	—	024 (016.2)	-7.5	8.1	—	—	—	—	RNAV1
007	TF	MAYAH	—	040 (032.4)	-7.5	14.0	—	4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

BERTH DELTA ARRIVAL

From BERTH to NALTO at or above 6000FT, to ASAMI, to BAGLE, to TOMOH, to HAMAR, to MAYAH at 4000FT.

Critical DME	AJD : 8.1NM to NALTO - 5.1NM to NALTO 2.0NM to MAYAH - MAYAH KNE : 1.7NM to ASAMI - BAGLE GBD : 7.1NM to HAMAR - 5.1NM to HAMAR
DME GAP	—
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	NALTO	—	098 (090.4)	-7.5	20.1	—	+6000	—	—	RNAV1
003	TF	ASAMI	—	110 (103.0)	-7.5	4.7	—	—	—	—	RNAV1
004	TF	BAGLE	—	057 (049.9)	-7.5	4.5	—	—	—	—	RNAV1
005	TF	TOMOH	—	054 (046.0)	-7.5	8.6	—	—	—	—	RNAV1
006	TF	HAMAR	—	024 (016.2)	-7.5	8.1	—	—	—	—	RNAV1
007	TF	MAYAH	—	040 (032.4)	-7.5	14.0	—	4000	—	—	RNAV1

CANDY DELTA ARRIVAL

From CANDY, to DATIS at or above 6000FT, to TOMOH, to HAMAR, to MAYAH at 4000FT.

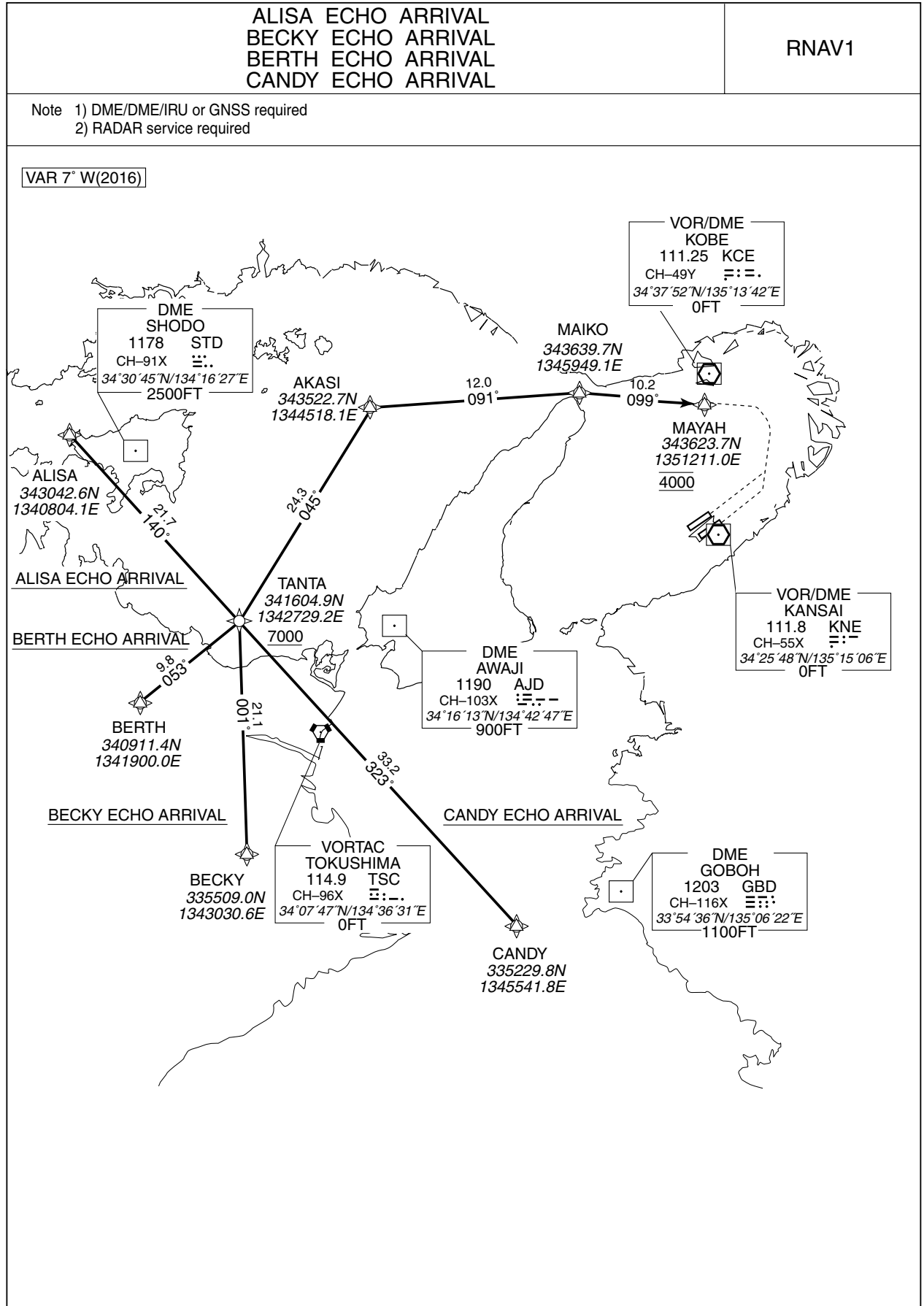
Critical DME	GBD : 7.1NM to HAMAR - 5.1NM to HAMAR AJD : 2.0NM to MAYAH - MAYAH
DME GAP	—
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	DATIS	—	011 (003.9)	-7.5	6.4	—	+6000	—	—	RNAV1
003	TF	TOMOH	—	018 (010.7)	-7.5	18.3	—	—	—	—	RNAV1
004	TF	HAMAR	—	024 (016.2)	-7.5	8.1	—	—	—	—	RNAV1
005	TF	MAYAH	—	040 (032.4)	-7.5	14.0	—	4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R



STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ALISA ECHO ARRIVAL

From ALISA, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

Critical DME	KTE : TANTA - 18.3NM to AKASI AJD : 14.3NM to AKASI - 9.3NM to AKASI KNE : 8.0NM to MAYAH - MAYAH
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	ALISA	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	TANTA	—	140 (132.3)	-7.5	21.7	—	+7000	—	—	RNAV1
003	TF	AKASI	—	045 (037.2)	-7.5	24.3	—	—	—	—	RNAV1
004	TF	MAIKO	—	091 (083.8)	-7.5	12.0	—	—	—	—	RNAV1
005	TF	MAYAH	—	099 (091.4)	-7.5	10.2	—	4000	—	—	RNAV1

BECKY ECHO ARRIVAL

From BECKY, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

Critical DME	KTE : TANTA - 18.3NM to AKASI AJD : 14.3NM to AKASI - 9.3NM to AKASI KNE : 8.0NM to MAYAH - MAYAH
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BECKY	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	TANTA	—	001 (353.2)	-7.5	21.1	—	+7000	—	—	RNAV1
003	TF	AKASI	—	045 (037.2)	-7.5	24.3	—	—	—	—	RNAV1
004	TF	MAIKO	—	091 (083.8)	-7.5	12.0	—	—	—	—	RNAV1
005	TF	MAYAH	—	099 (091.4)	-7.5	10.2	—	4000	—	—	RNAV1

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

BERTH ECHO ARRIVAL

From BERTH, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

Critical DME	KTE : TANTA - 18.3NM to AKASI AJD : 14.3NM to AKASI - 9.3NM to AKASI KNE : 8.0NM to MAYAH - MAYAH
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	BERTH	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	TANTA	—	053 (045.5)	-7.5	9.8	—	+7000	—	—	RNAV1
003	TF	AKASI	—	045 (037.2)	-7.5	24.3	—	—	—	—	RNAV1
004	TF	MAIKO	—	091 (083.8)	-7.5	12.0	—	—	—	—	RNAV1
005	TF	MAYAH	—	099 (091.4)	-7.5	10.2	—	4000	—	—	RNAV1

CANDY ECHO ARRIVAL

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

Critical DME	KTE : TANTA - 18.3NM to AKASI AJD : 14.3NM to AKASI - 9.3NM to AKASI KNE : 8.0NM to MAYAH - MAYAH
DME GAP	—
Inappropriate Nav aids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course [°M(°T)]	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CANDY	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	TANTA	—	323 (315.4)	-7.5	33.2	—	+7000	—	—	RNAV1
003	TF	AKASI	—	045 (037.2)	-7.5	24.3	—	—	—	—	RNAV1
004	TF	MAIKO	—	091 (083.8)	-7.5	12.0	—	—	—	—	RNAV1
005	TF	MAYAH	—	099 (091.4)	-7.5	10.2	—	4000	—	—	RNAV1

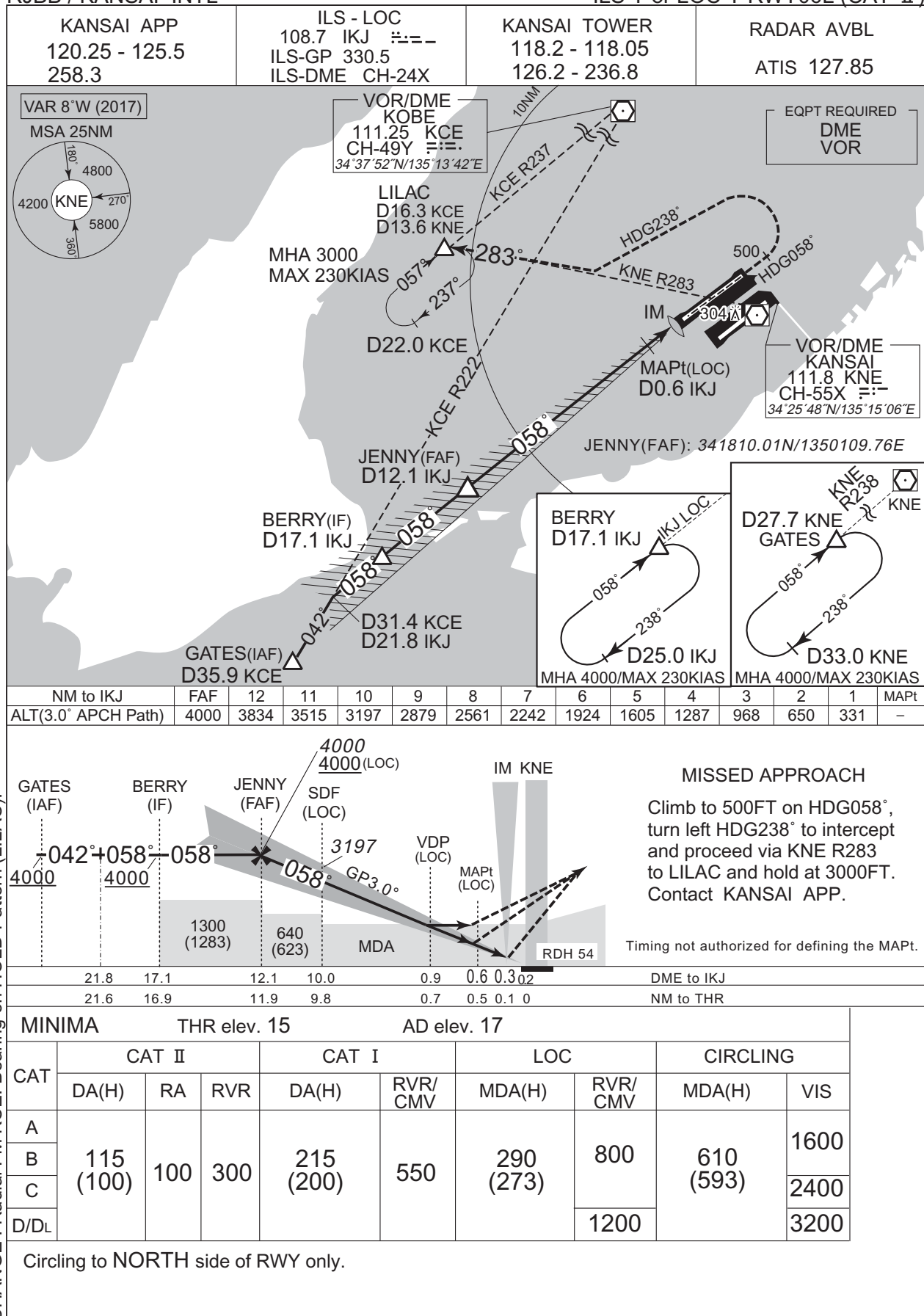
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

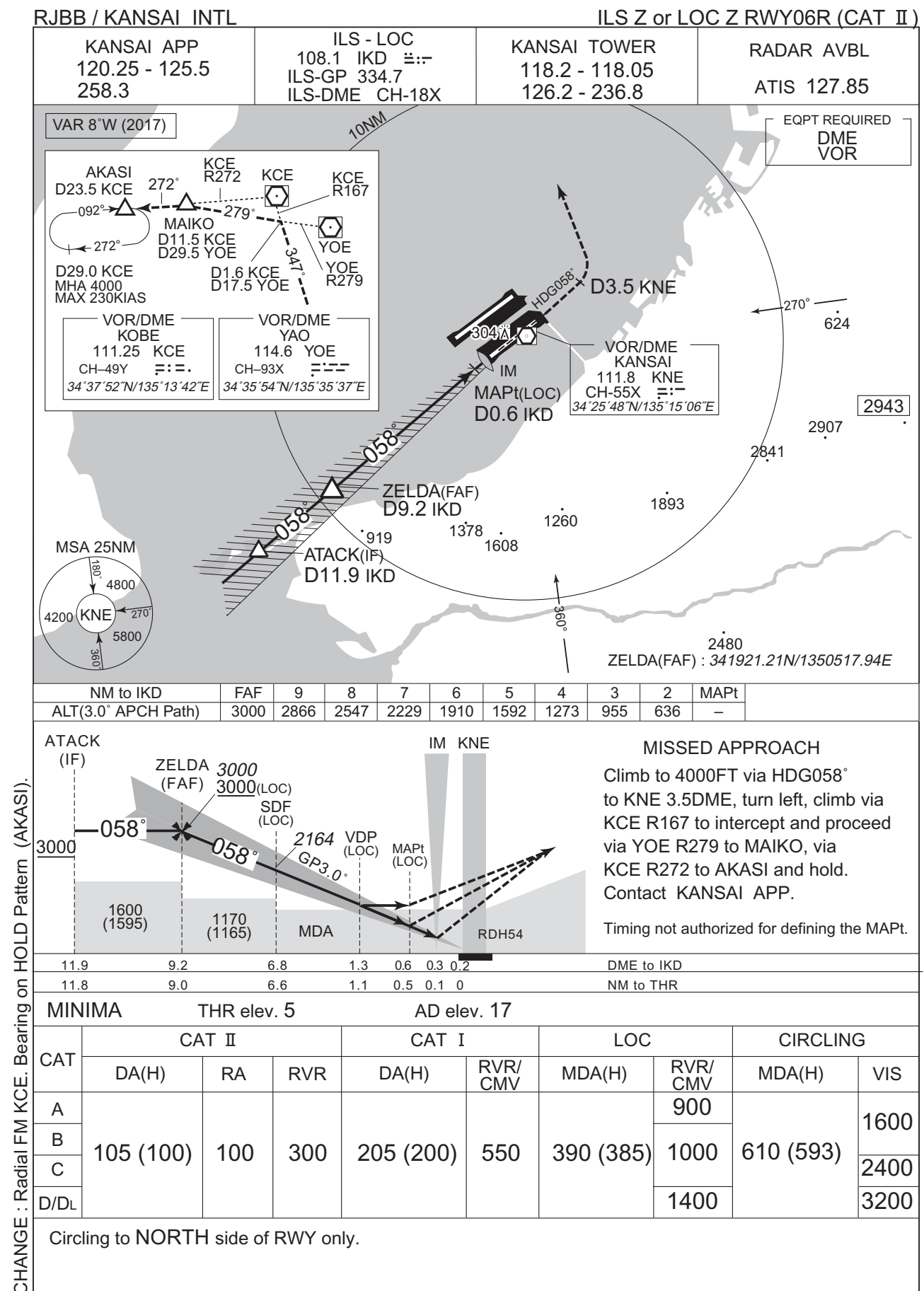
RJBB / KANSAI INTL

ILS Y or LOC Y RWY06L (CAT II)



CHANGE : Radial FM KCE: Bearing on HOLD Pattern (LILAC).

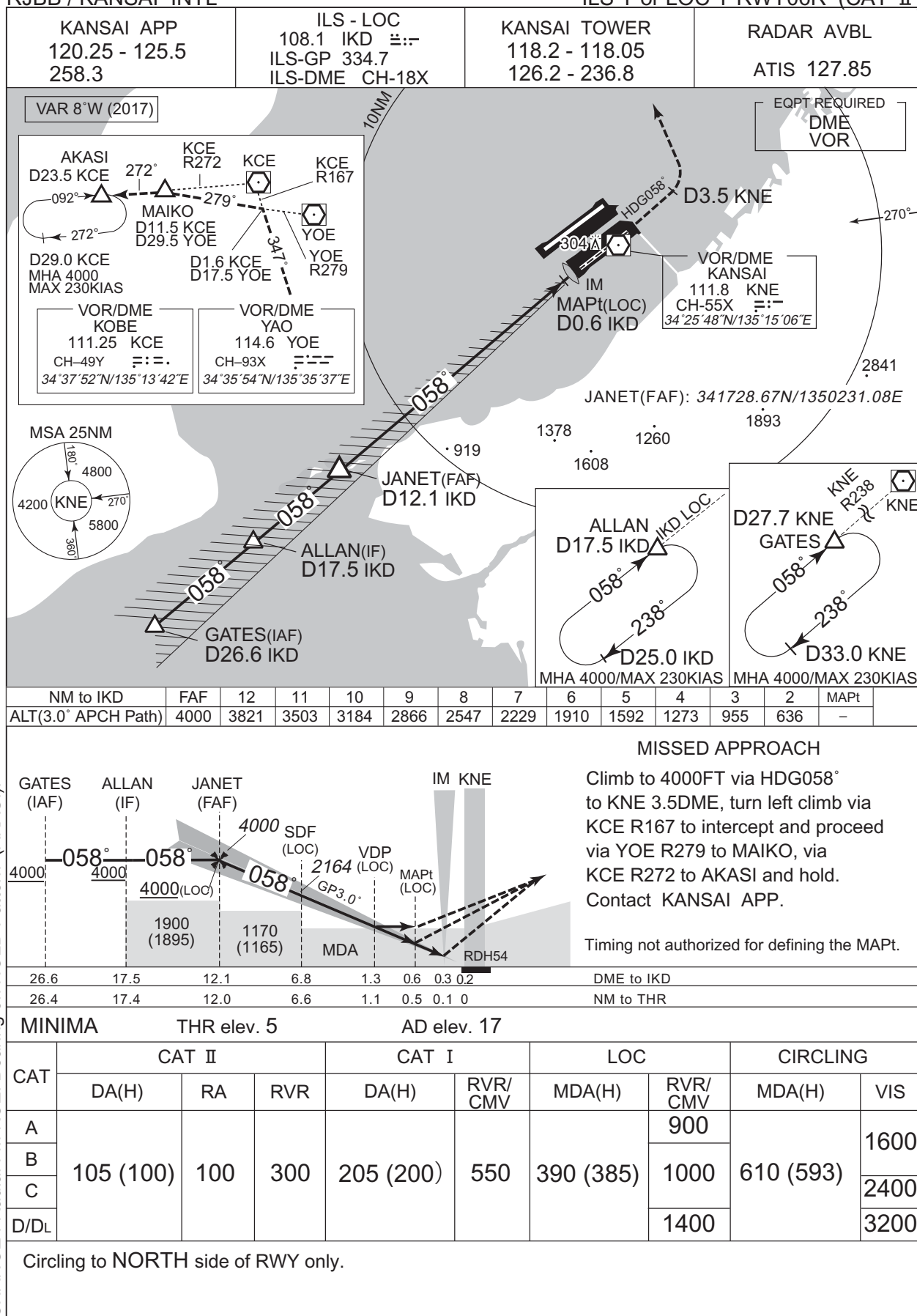
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

ILS Y or LOC Y RWY06R (CAT II)



CHANGE : Radial FM KCE. Bearing on HOLD Pattern (AKASI).

RJBB / KANSAI INTL

ILS Z or LOC Z RWY24L (CAT II)

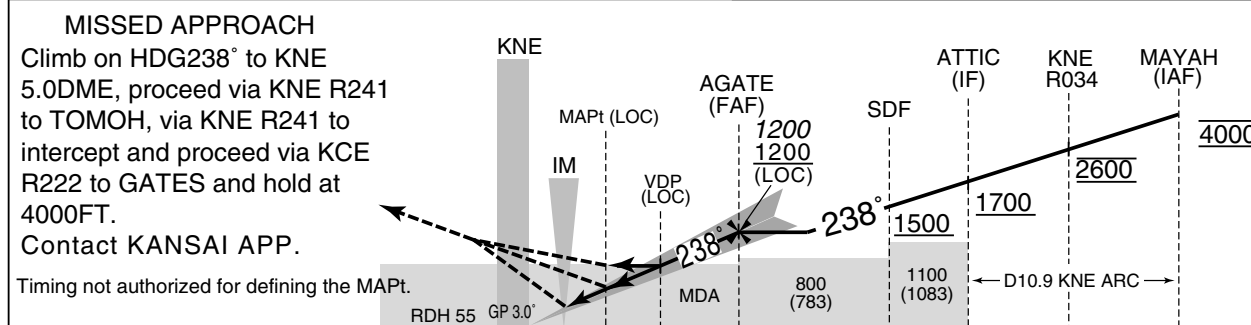
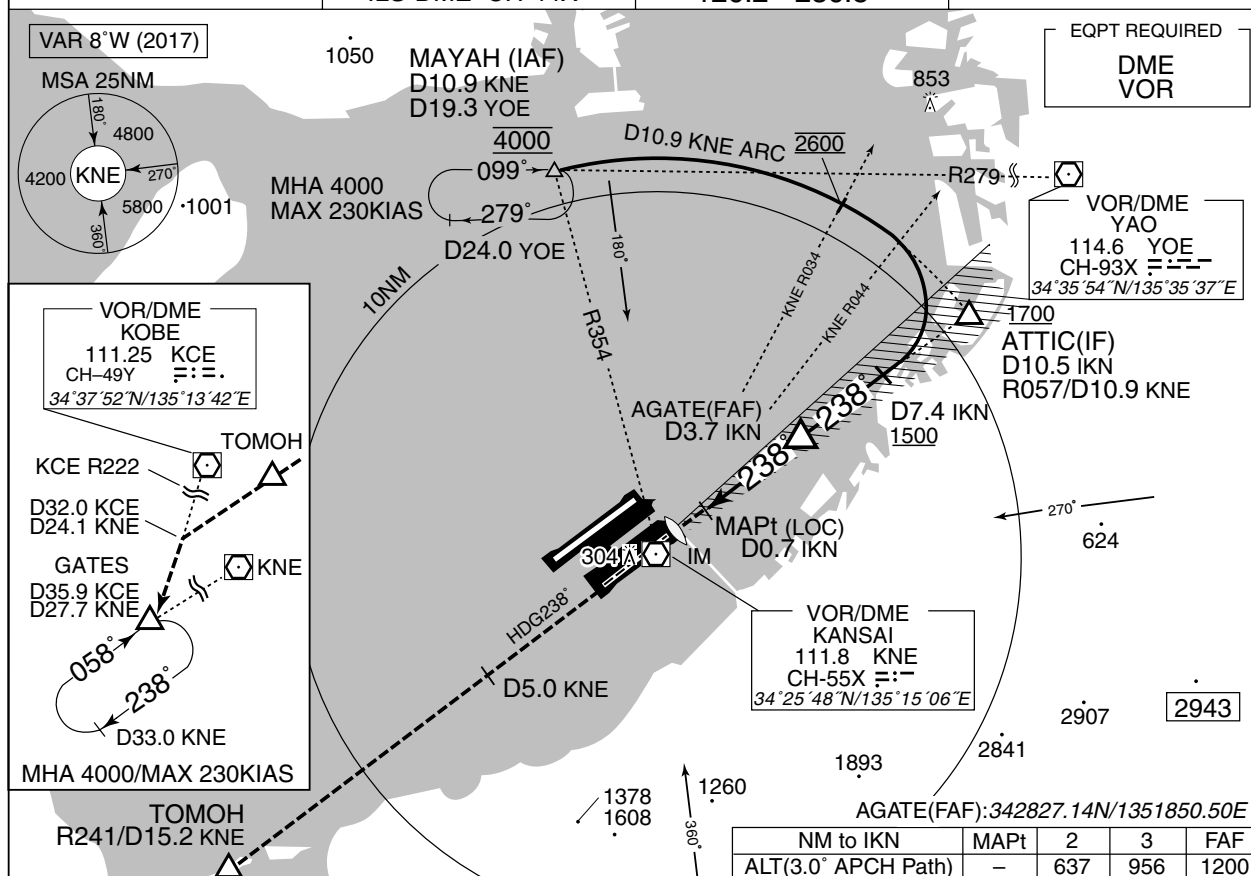


INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

ILS Y or LOC Y RWY24L (CAT II)

KANSAI APP 120.25 - 125.5 258.3	ILS - LOC 110.7 IKN ≡:- ILS-GP 330.2 ILS-DME CH-44X	KANSAI TOWER 118.2 - 118.05 126.2 - 236.8	RADAR AVBL ATIS 127.85
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DME to IKN	0.2	0.3	0.7	1.3	3.7	7.4	10.5
NM to THR	0	0.1	0.5	1.1	3.5	7.2	10.3

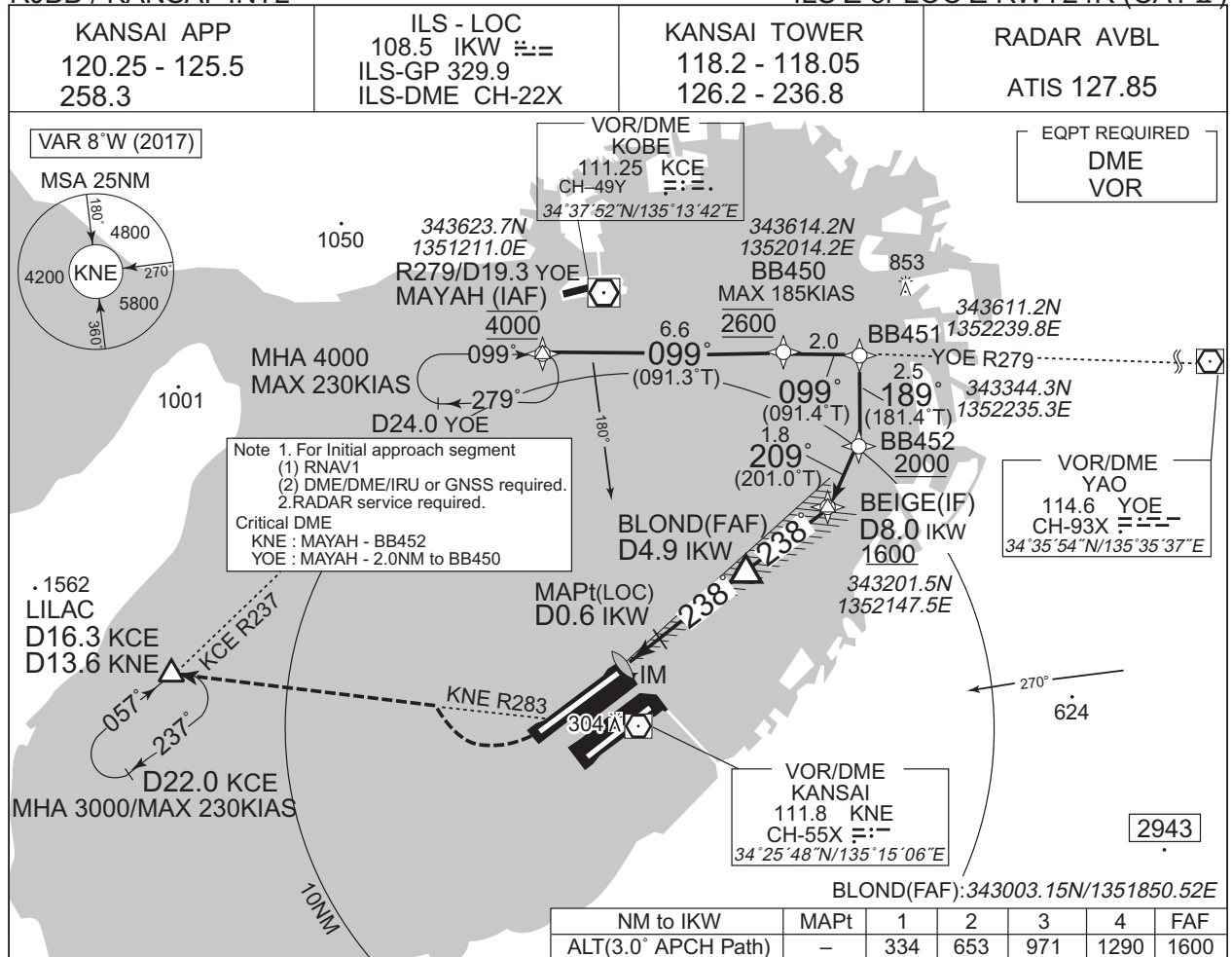
MINIMA			THR elev. 13	AD elev. 17					
CAT	CAT II			CAT I		LOC		CIRCLING	
	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	113 (100)	100	300	213 (200)	550	390 (373)	900	610 (593)	1600
B							1000		2400
C							1400		3200
D/DL									

Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

ILS Z or LOC Z RWY24R (CAT II)



MISSED APPROACH
Turn right, climb to 3000FT,
via KNE R283 to LILAC
and hold.
Contact KANSAI APP.

Timing not authorized for defining the MAPt.

DME to IKW	0.2	0.3	0.6	0.9	4.9	8.0
NM to THR	0	0.1	0.5	0.7	4.7	7.9

MINIMA THR elev. 23 AD elev. 17

CAT	CAT II			CAT I		LOC		CIRCLING	
	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A									1600
B	123	100	300	223	550	290	800	610	2400
C	(100)			(200)		(273)		(593)	3200
D/DL							1200		

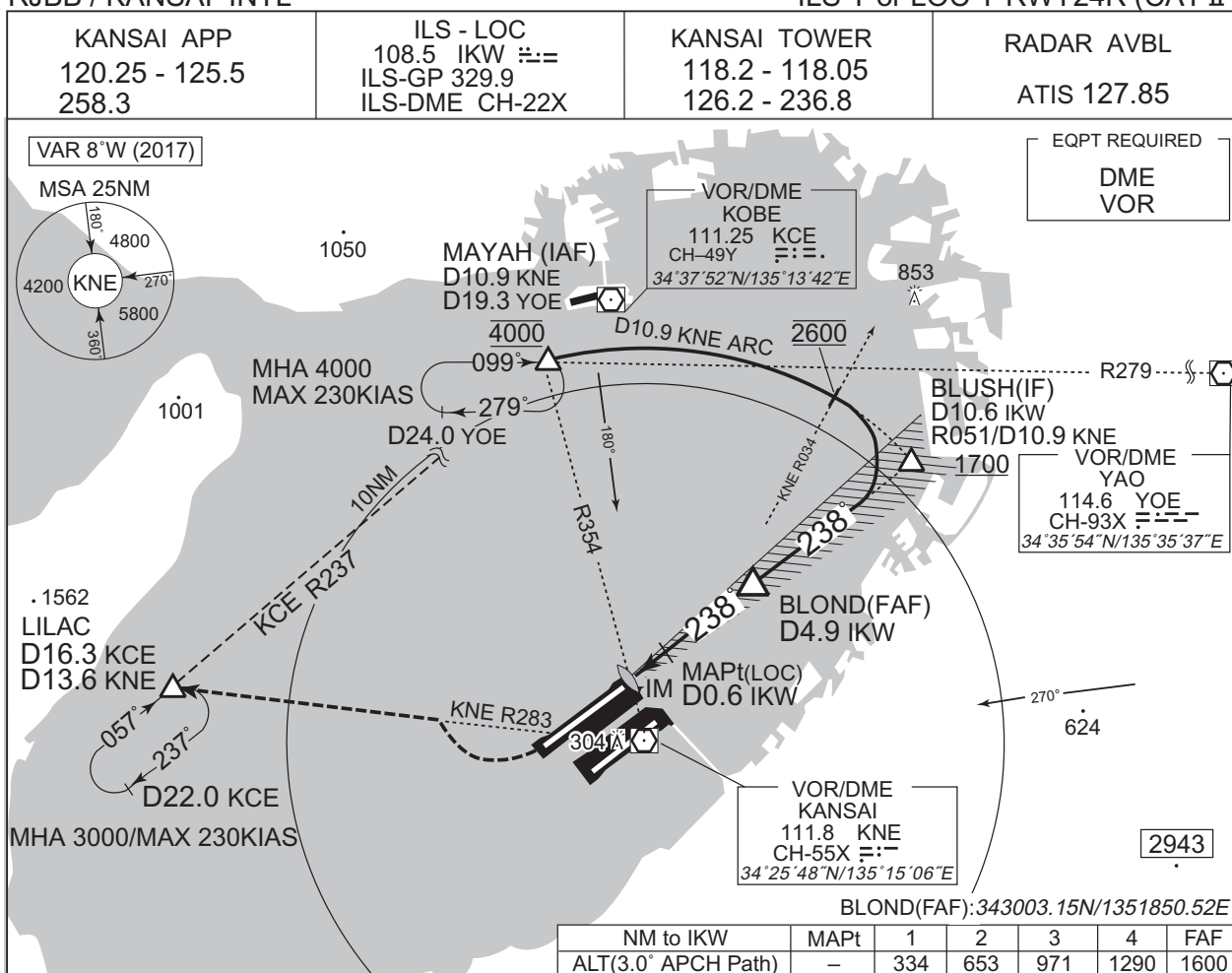
Circling to NORTH side of RWY only.

CHANGE : Radial FM KCE: Bearing on HOLD Pattern (LILAC).

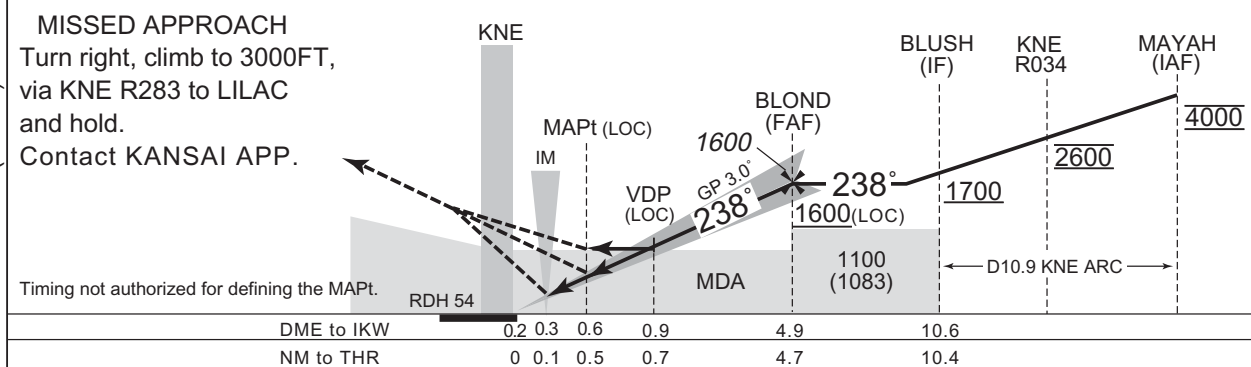
INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

ILS Y or LOC Y RWY24R (CAT II)



CHANGE : Radial FM KCE. Bearing on HOLD Pattern (LILAC).



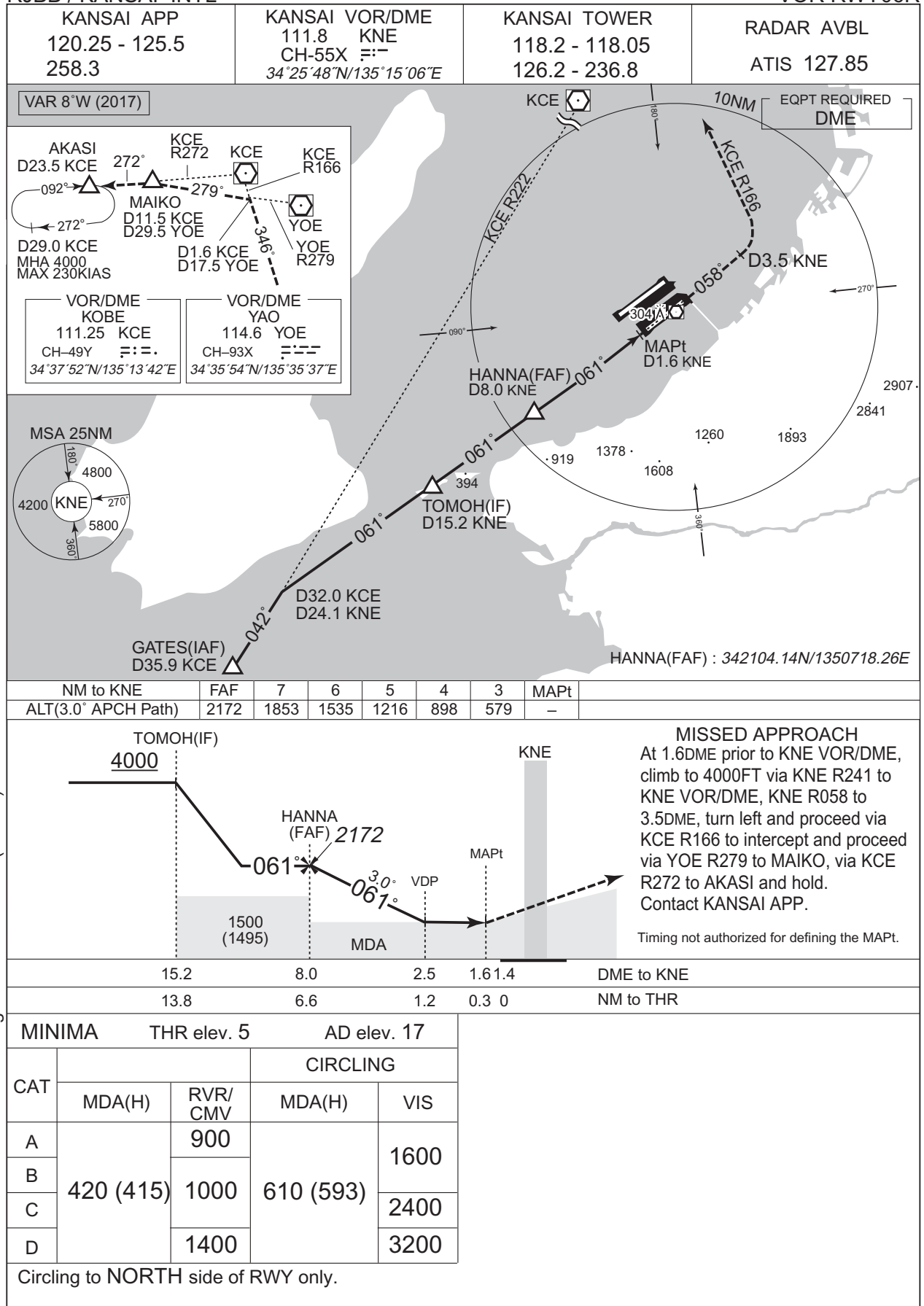
MINIMA		THR elev. 23			AD elev. 17				
CAT	CAT II			CAT I		LOC		CIRCLING	
	DA(H)	RA	RVR	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	123 (100)	100	300	223 (200)	550	290 (273)	800	610 (593)	1600
B									2400
C									2400
D/DL							3200		
							1200		

Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

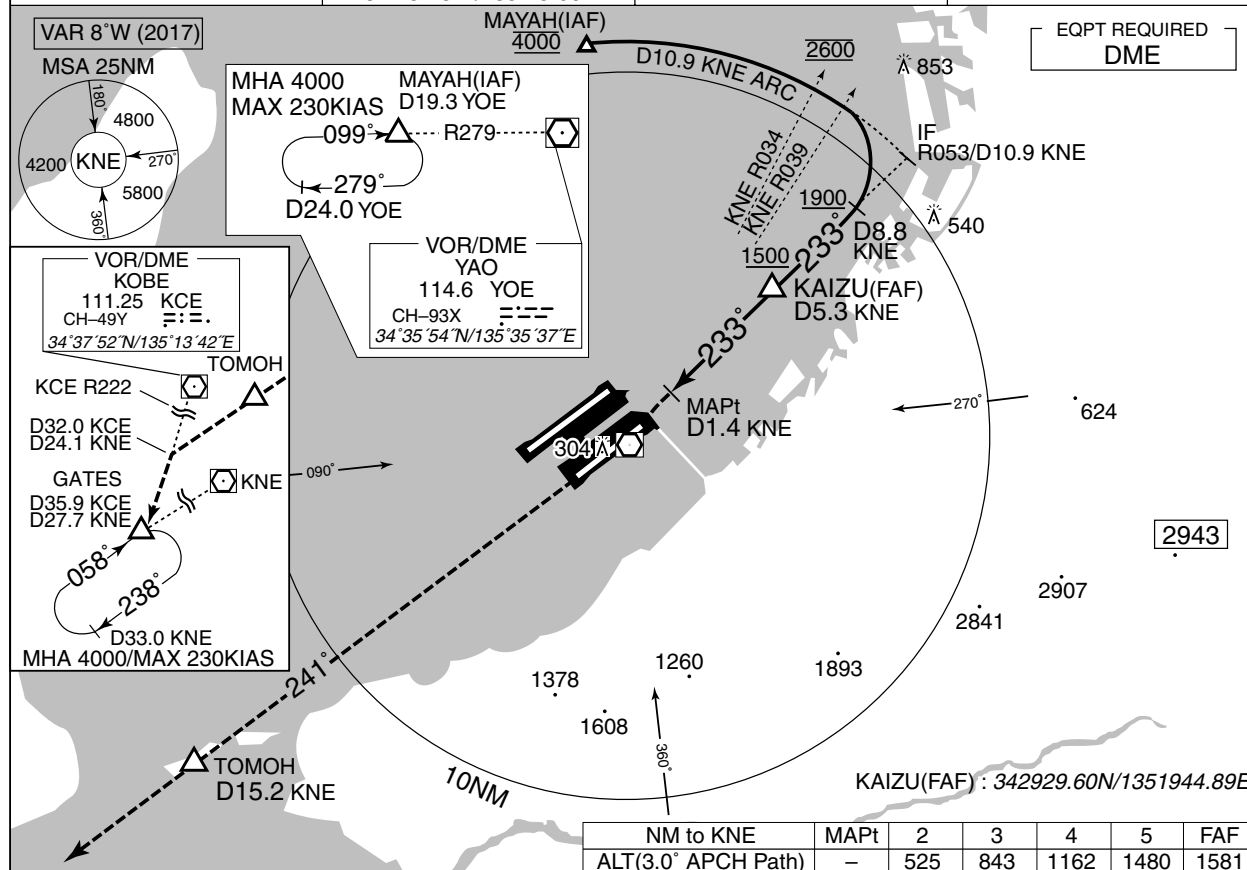
VOR RWY06R



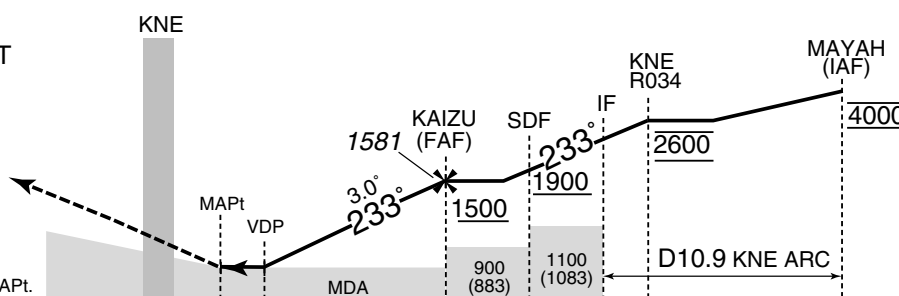
CHANGE : Radial FM KCE: Bearing on HOLD Pattern (AKASI).

RJBB / KANSAI INTL

KANSAI APP 120.25 - 125.5 258.3	KANSAI VOR/DME 111.8 KNE CH-55X F=7 34°25'48"N/135°15'06"E	KANSAI TOWER 118.2 - 118.05 126.2 - 236.8	RADAR AVBL ATIS 127.85
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Timing not authorized for defining the MAPt.



DME to KNE	0.5	1.4	1.8	5.3	8.8	10.9
NM to THR	0	0.9	1.3	4.8	8.2	10.3

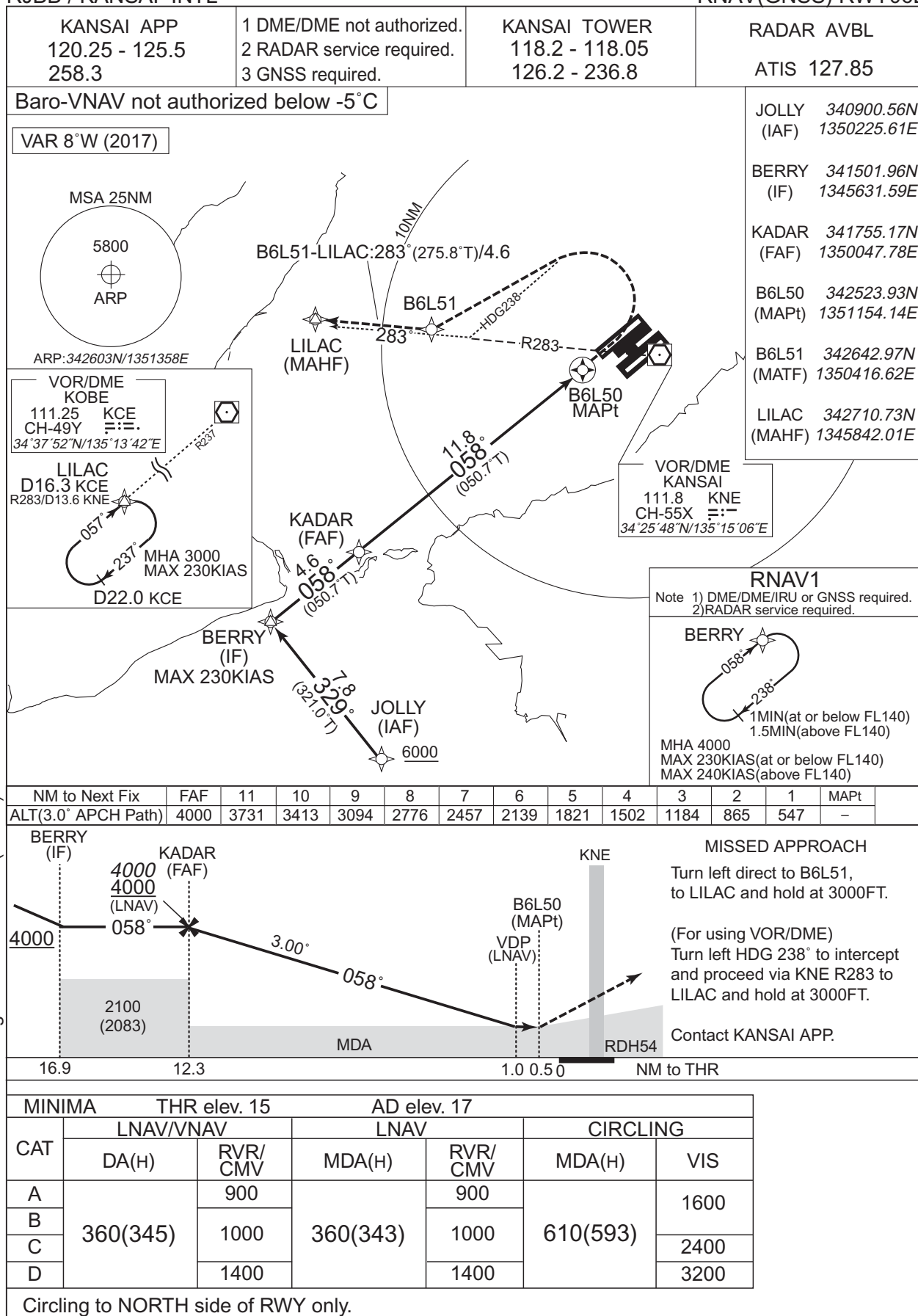
MINIMA		THR elev. 13	AD elev. 17			
CAT			CIRCLING			
	MDA(H)	RVR/ CMV	MDA(H)	VIS		
A	450 (433)	900	610 (593)	1600		
B		1000		2400		
C					1400	3200
D						

Circling to **NORTH** side of RWY only.

INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

RNAV(GNSS) RWY06L



INSTRUMENT APPROACH CHART

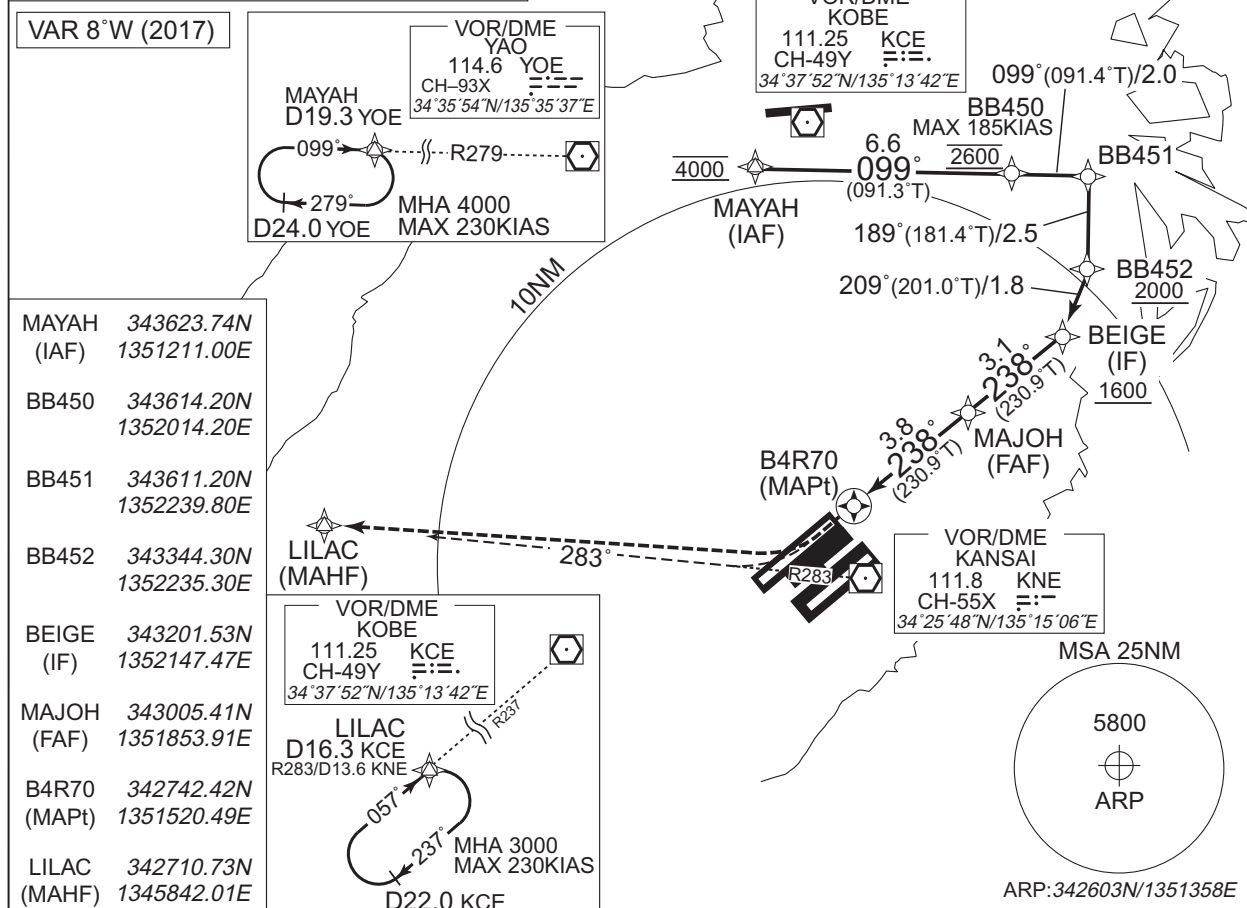
RJBB / KANSAI INTL

RNAV(GNSS) RWY24R

KANSAI APP 120.25 - 125.5 258.3	1 DME/DME not authorized. 2 RADAR service required. 3 GNSS required.	KANSAI TOWER 118.2 - 118.05 126.2 - 236.8	RADAR AVBL ATIS 127.85
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Baro-VNAV not authorized below -5°C

VAR 8°W (2017)



NM to Next Fix	MAPt	1	2	3	FAF
ALT(3.0° APCH Path)	-	714	1032	1351	1600

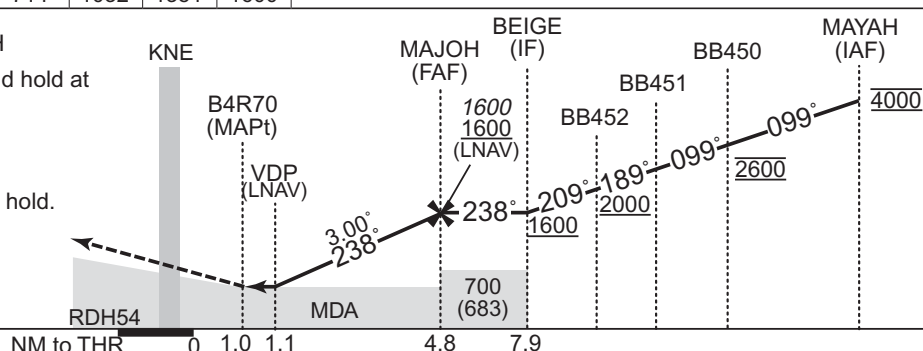
MISSED APPROACH

Turn right direct to LILAC and hold at 3000FT.

(For using VOR/DME)

Turn right, climb to 3000FT, via KNE R283 to LILAC and hold.

Contact KANSAI APP.



MINIMA		THR elev. 23		AD elev. 17		
CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	400(377)	900	400(383)	900	610(593)	1600
B		1000		1000		2400
C						
D						

Circling to NORTH side of RWY only.

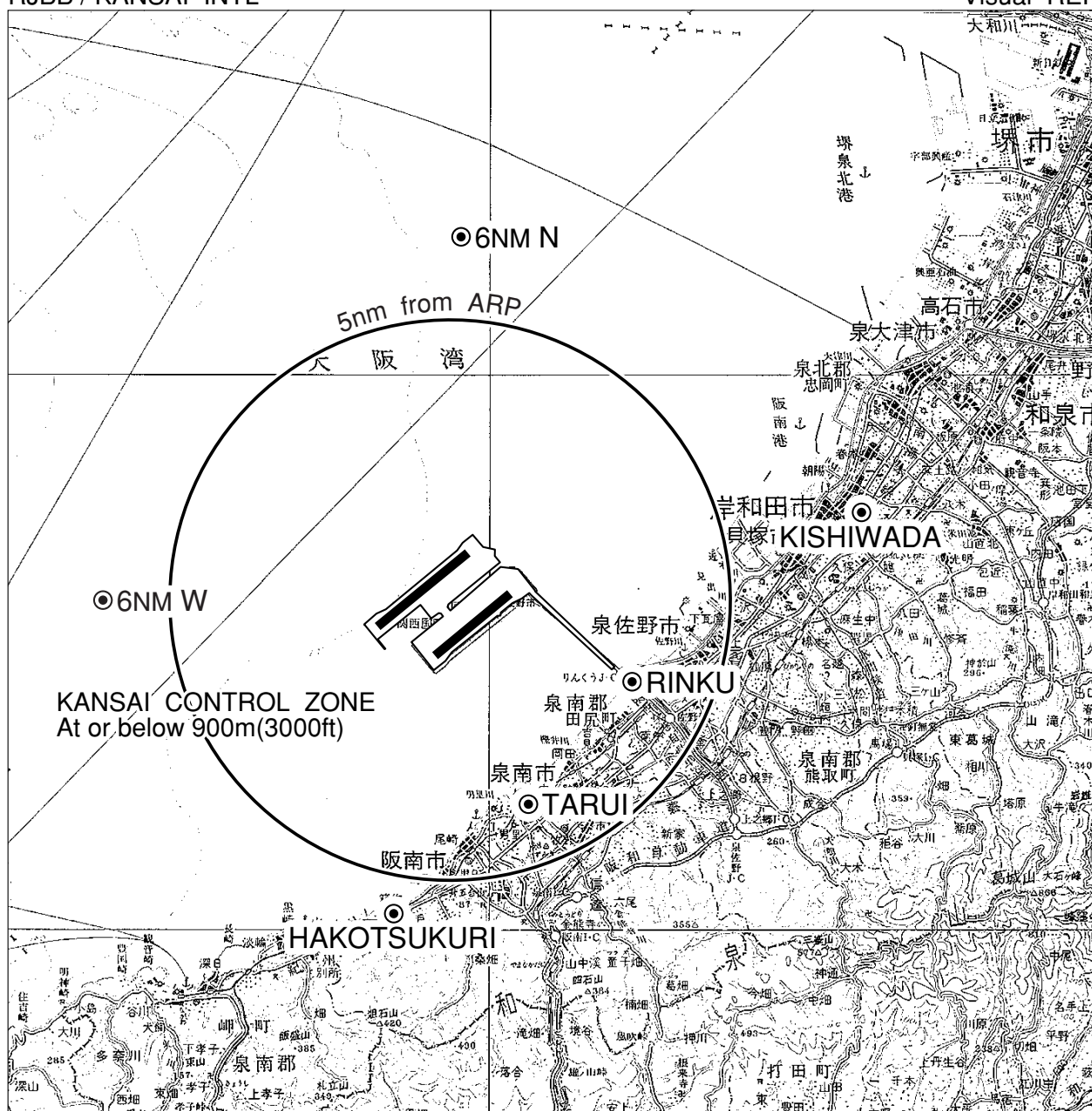
CHANGE : Radial FM KCE. Bearing on HOLD Pattern (LILAC).

HLDG PATTERN

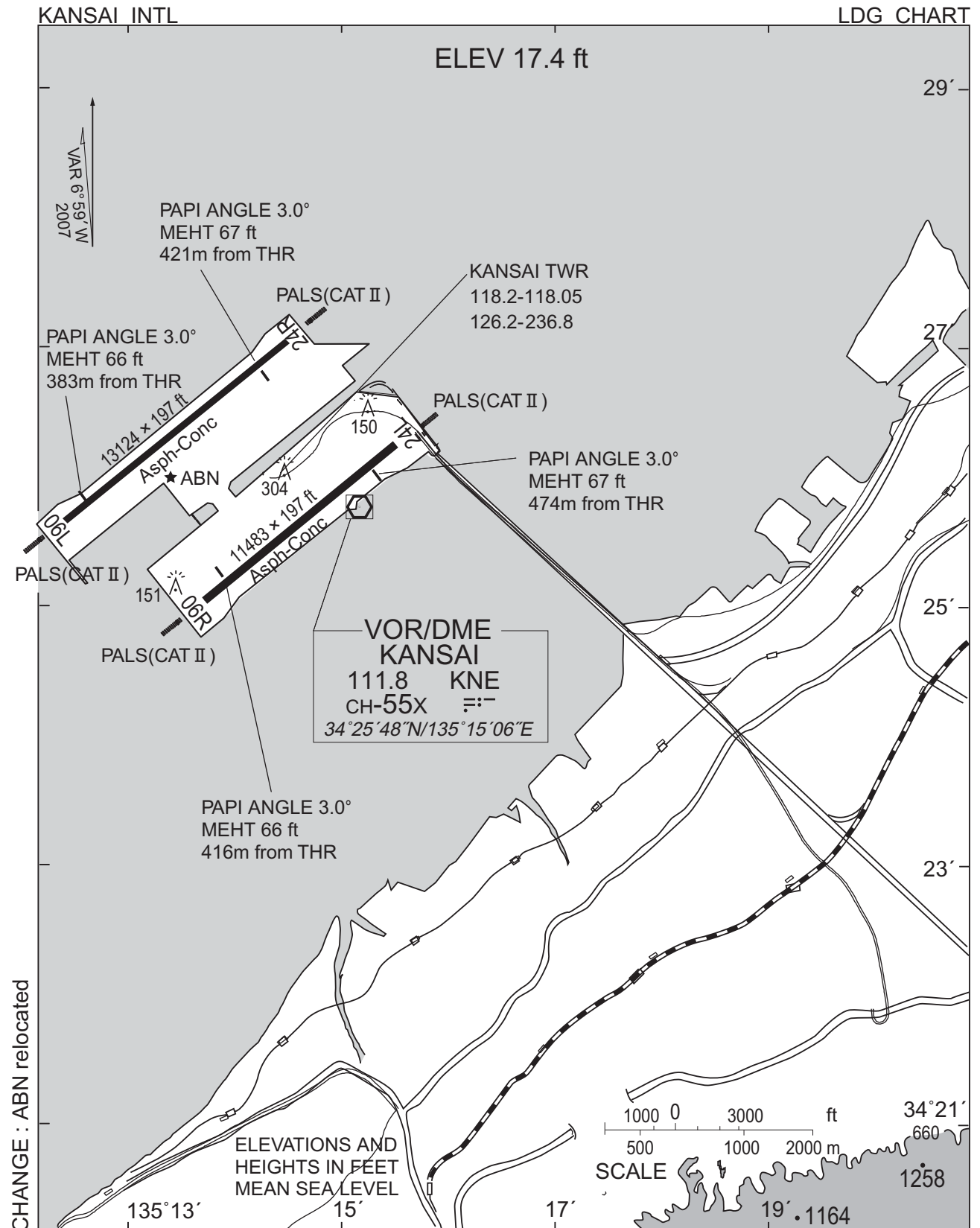
[illegible]

RJBB / KANSAI INTL

Visual REP



Call sign	BRG / DIST from ARP	Remarks
りんくう Rinku	119°/3.6NM	ゲートタワービル Building
樽井 Tarui	165°/3.9NM	南海本線・樽井駅 Station
箱作 Hakotsukuri	197°/5.7NM	南海本線・箱作駅 Station
岸和田 Kishiwada	084°/7.4NM	南海本線・岸和田駅 Station
6NM W	270°/6.0NM	海上 Over the sea
6NM N	360°/6.0NM	海上 Over the sea



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Minimum Vectoring Altitude CHART

