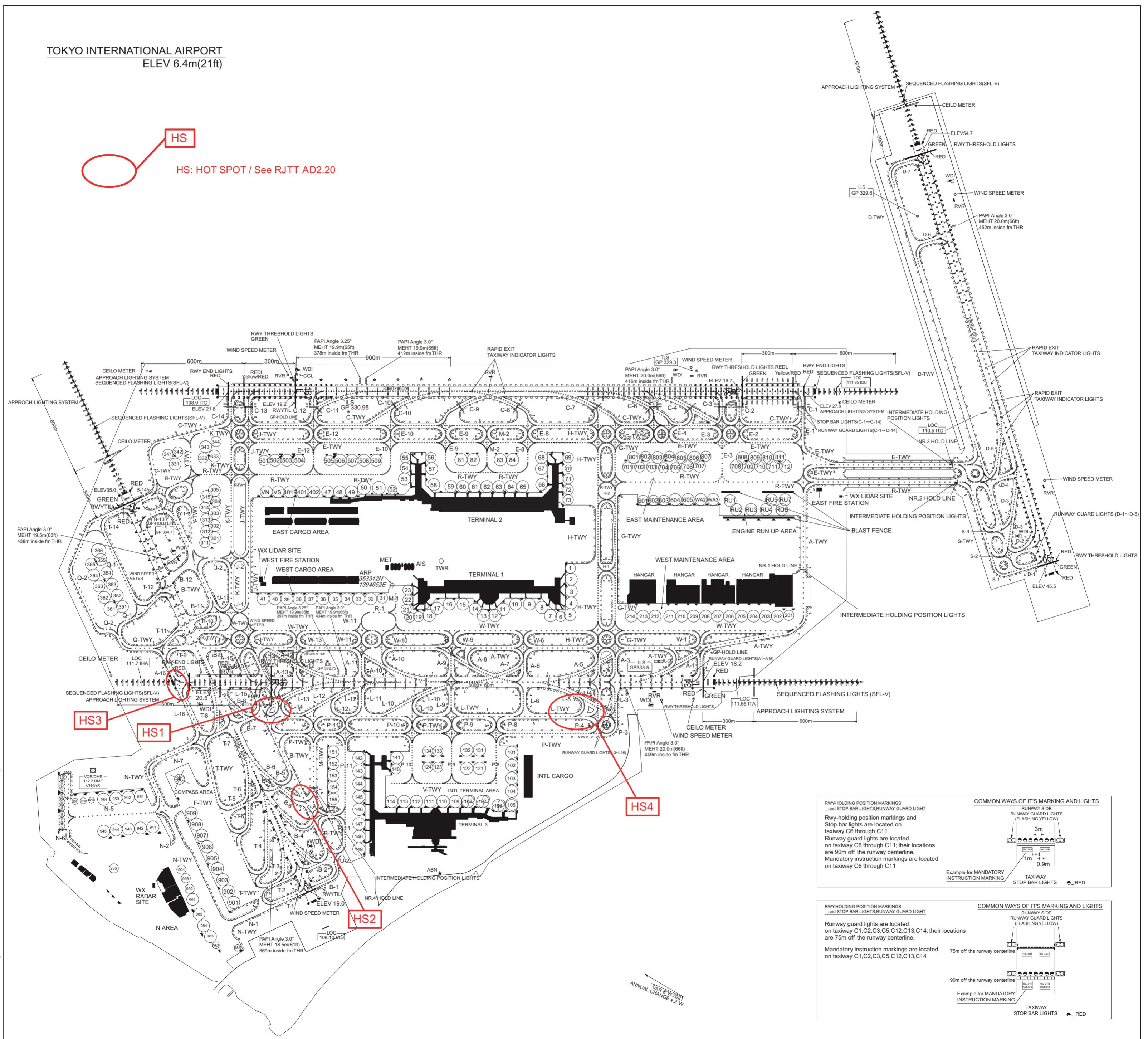


## AERODROME CHART

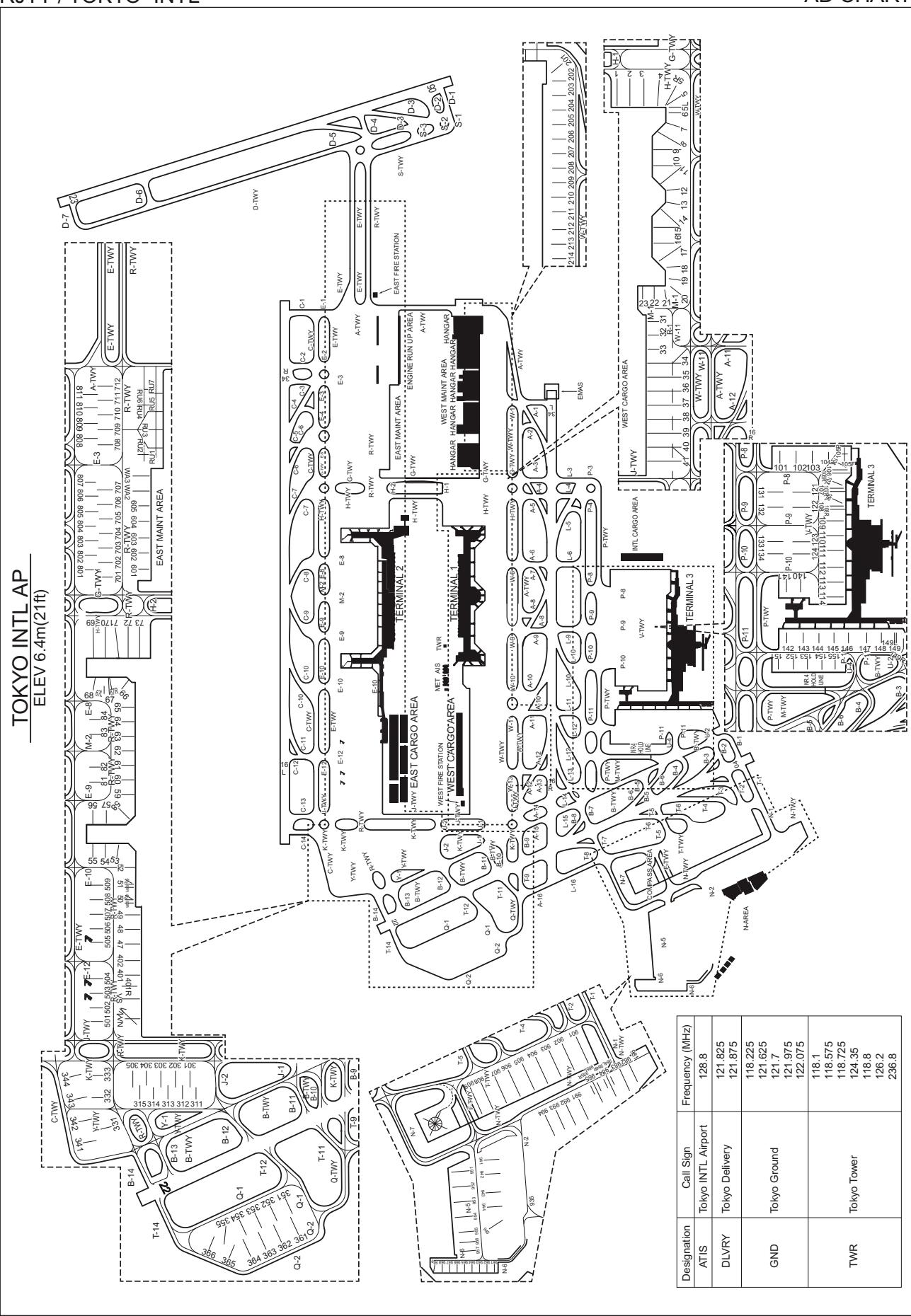
CHANGE : Spot FM 47 to 52 established. Spot 406, 407, 408, V1 ,V2 abolished.



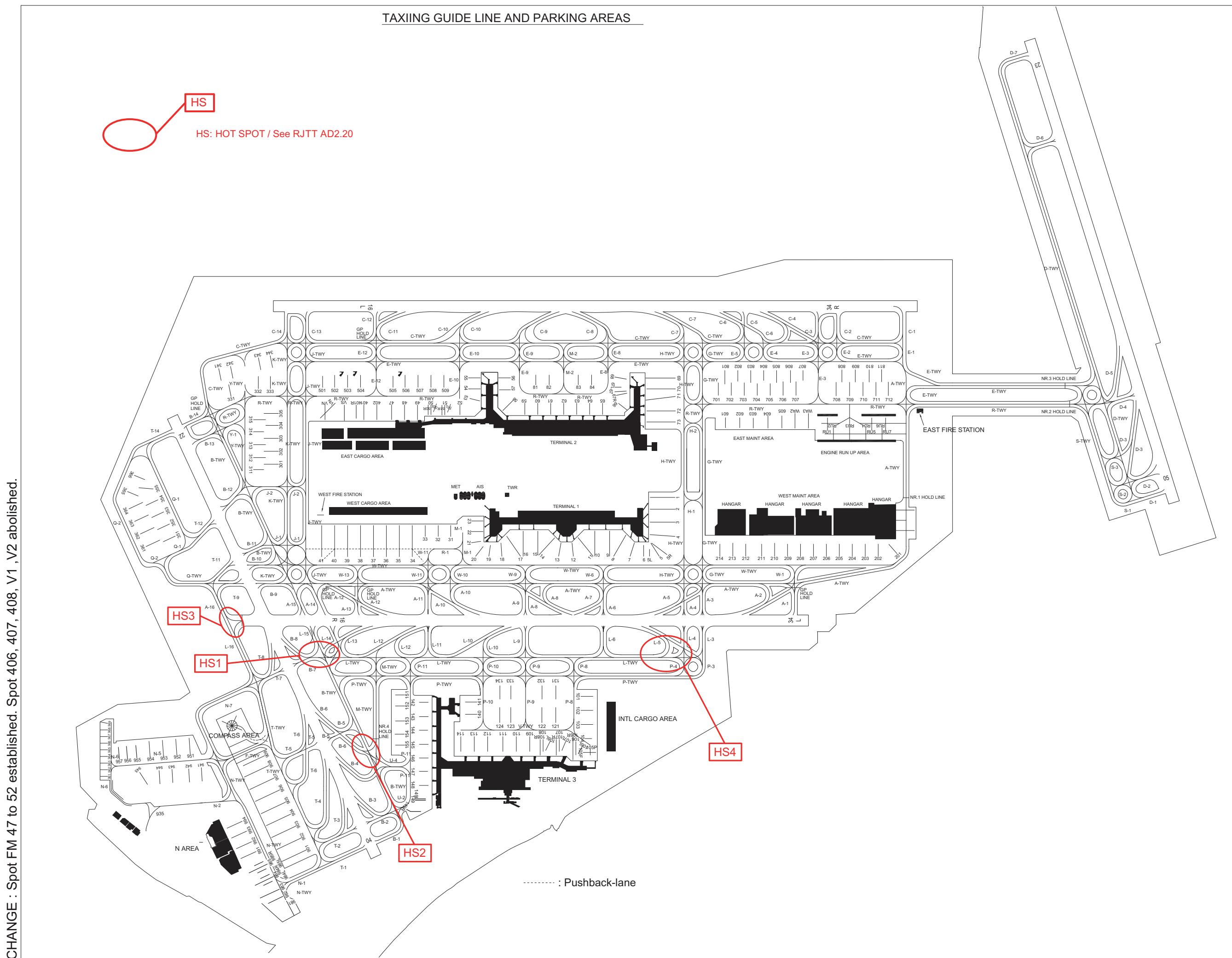
RJTT / TOKYO INTL

AD CHART

CHANGE : Spot FM 47 to 52 established. Spot 406, 407, 408, V1, V2 abolished.

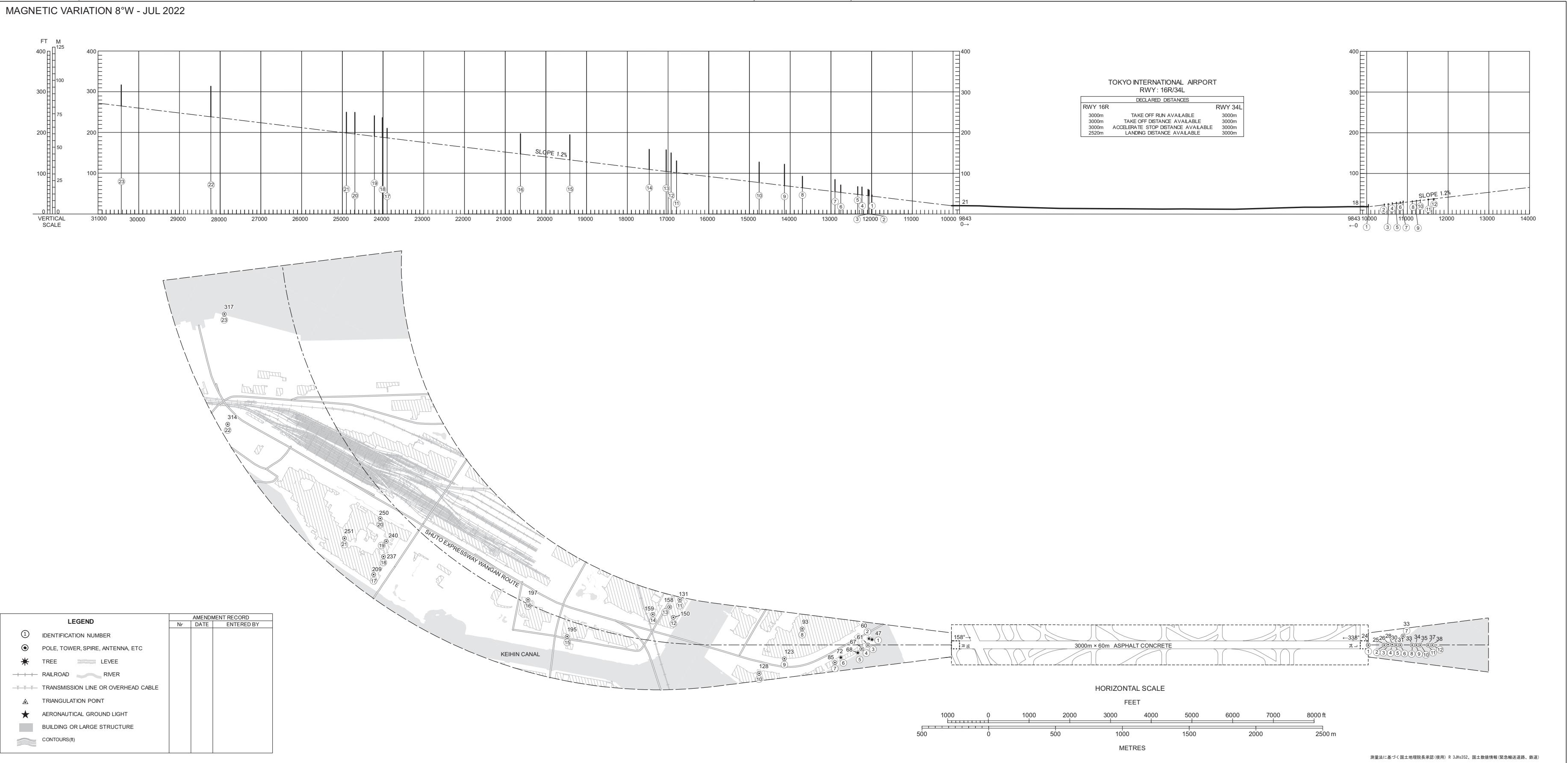


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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

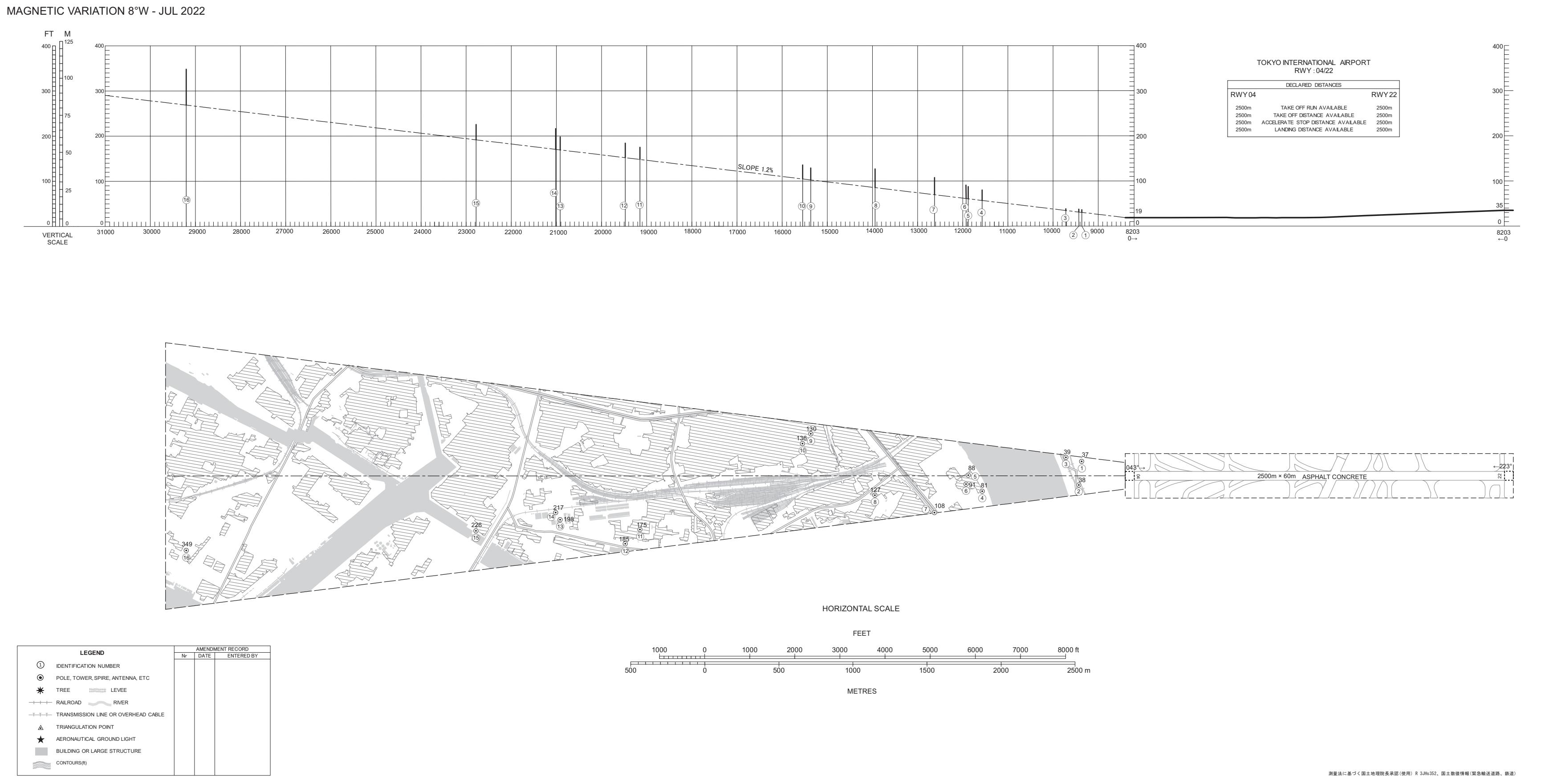
AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



## **DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC Transverse Mercator Projection**

# AERODROME OBSTACLE CHART-ICA TYPE A (OPERATING LIMITATIONS)

## MAGNETIC VARIATION 8°W - JUL 2022



CHANGE : Update

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

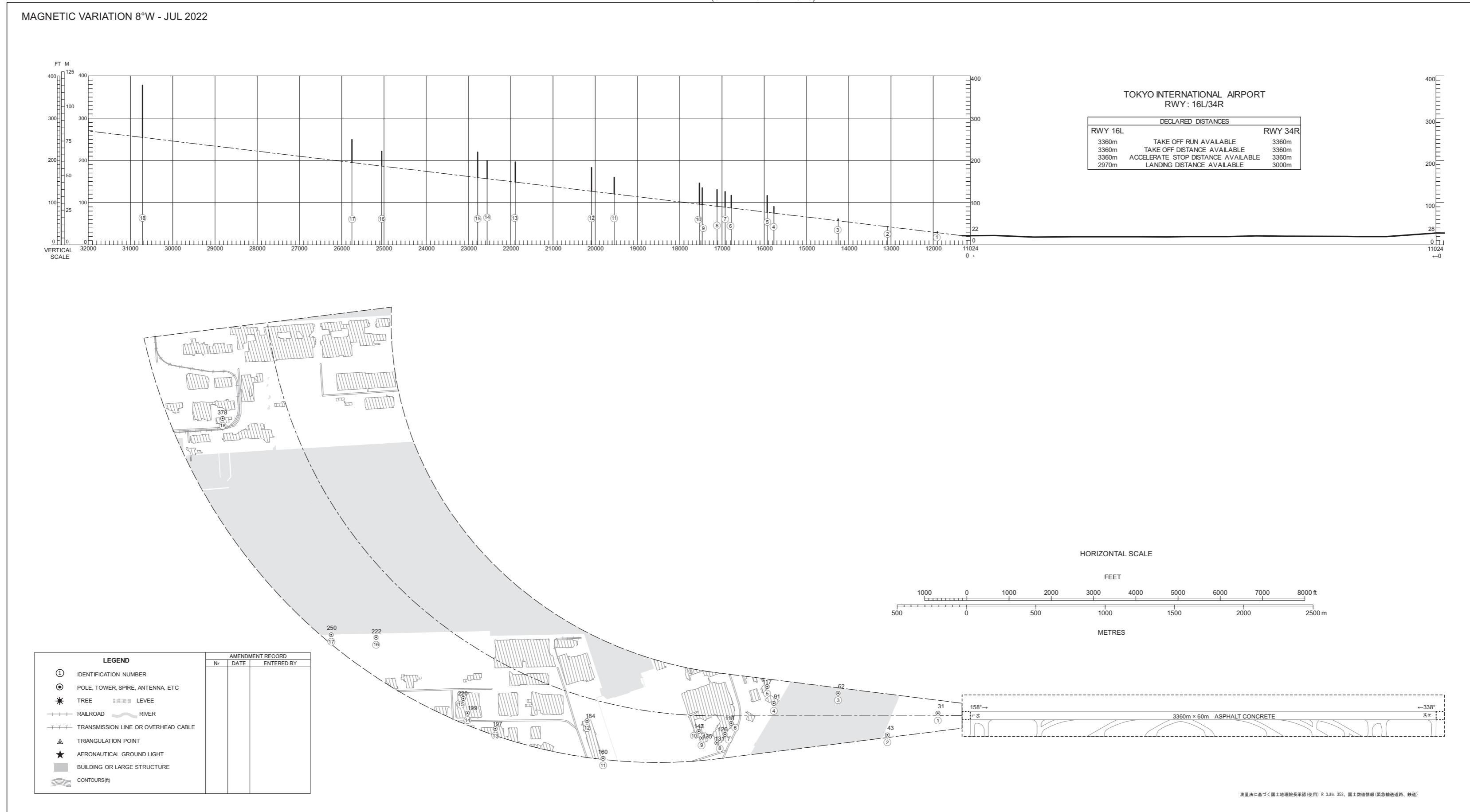
AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



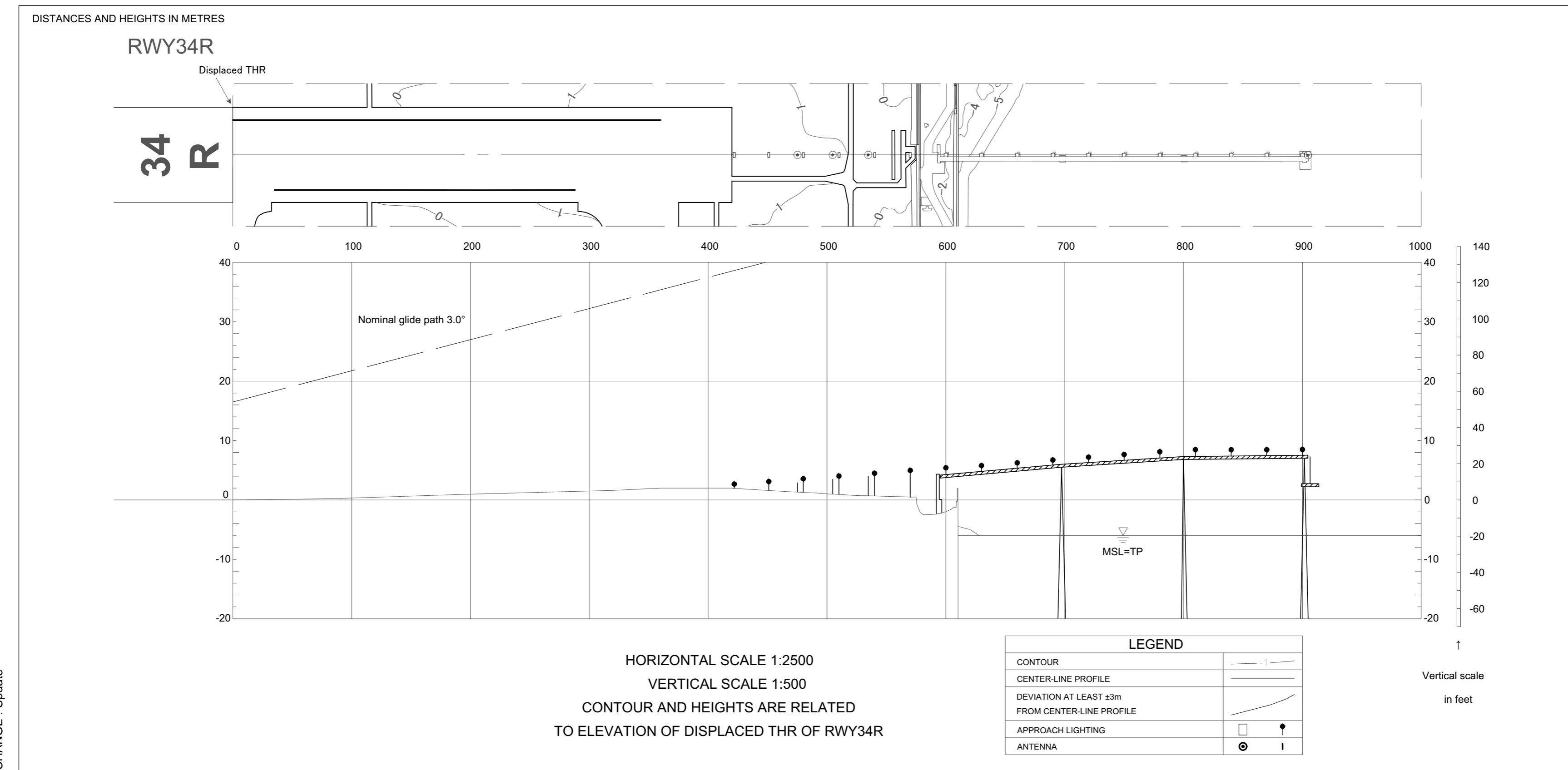
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC  
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO  
TYPE B



CHANGE : Obstruction added.

## PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

SEKIYADO THREE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100° to HME 9.0DME, turn left HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross SYE VOR/DME between 12000FT and FL150.

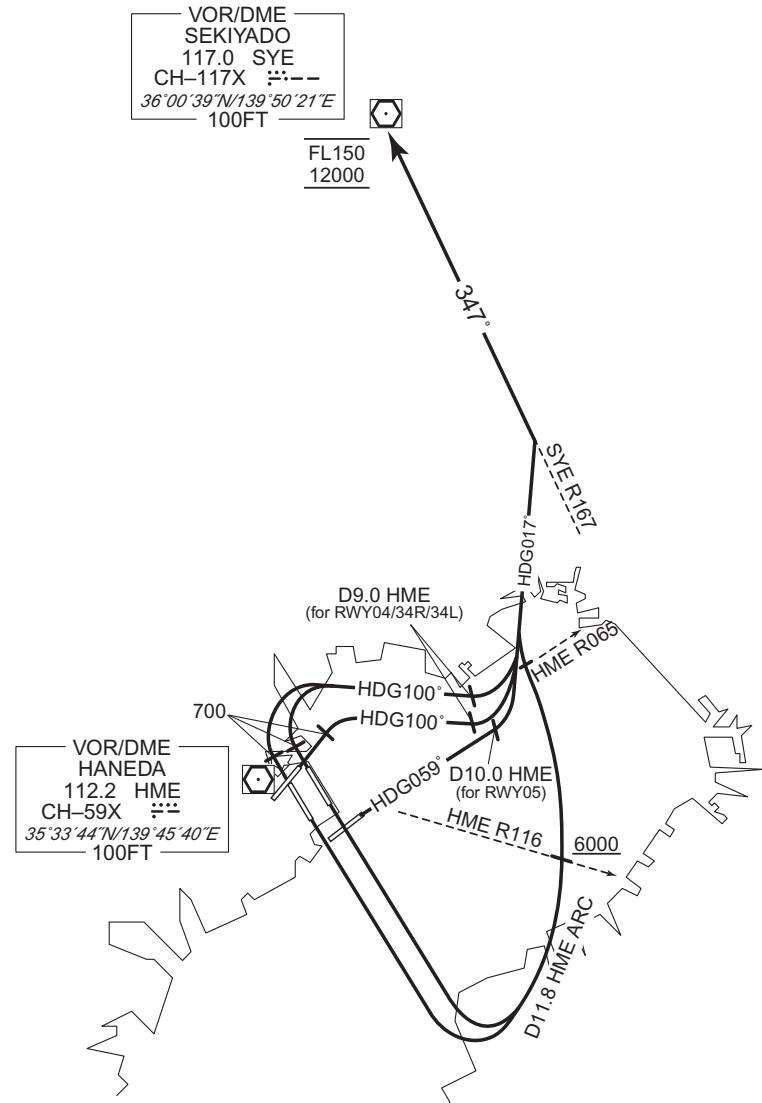
RWY16R/16L: Climb RWY HDG to intercept and proceed via HME 11.8DME counterclockwise ARC to HME R065, turn right HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross HME R116 at or above 6000FT, cross SYE VOR/DME between 12000FT and FL150.

RWY05 : Climb on HDG059° to HME 10.0DME, turn left HDG017° to intercept and proceed via SYE R167 to SYE VOR/DME. Cross SYE VOR/DME between 12000FT and FL150.

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

RWY05: 5.0% climb gradient required up to 500FT.

CHANGE : Description of PROC name and ALT.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

VADAR ONE DEPARTURE

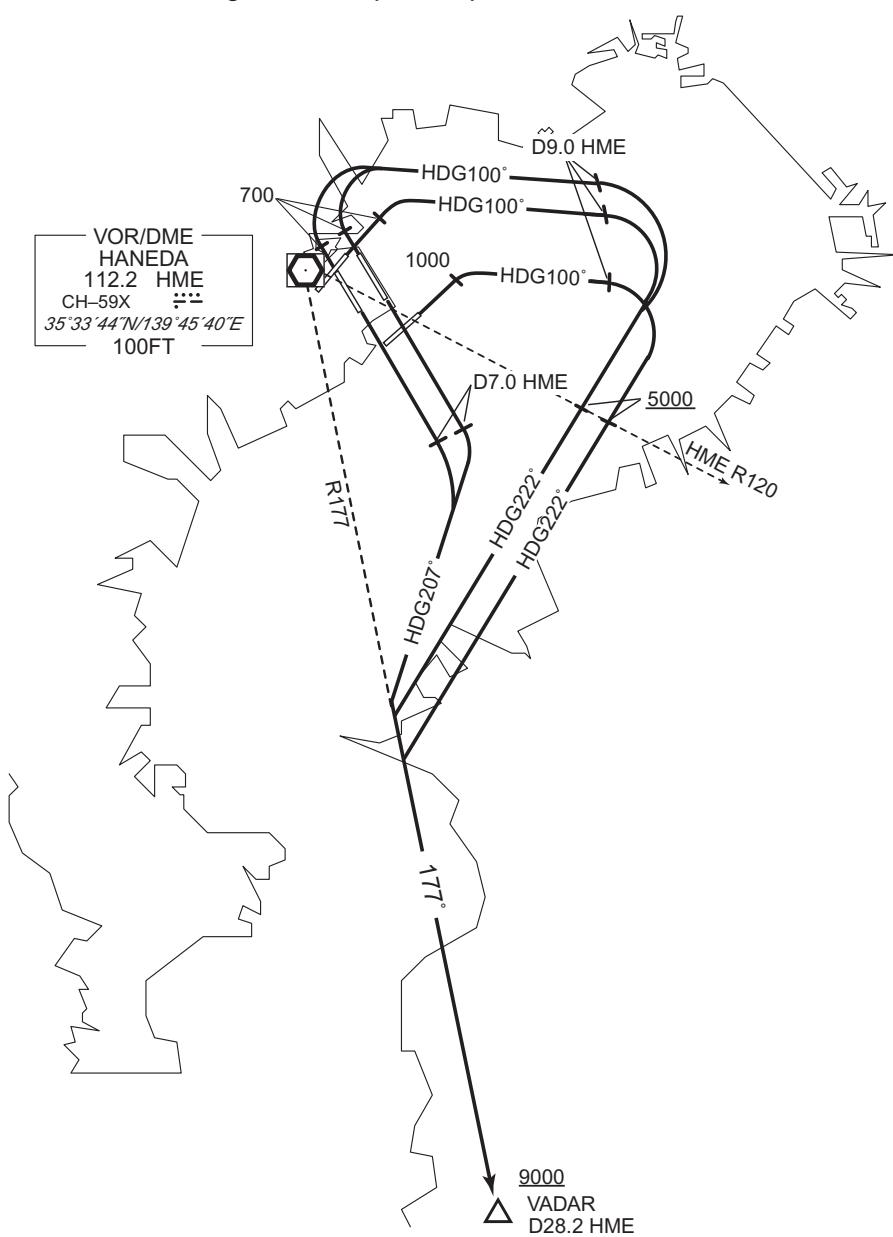
RWY04/34R/34L: Climb RWY HDG to 700FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.  
 Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

RWY16R/16L: Climb RWY HDG to HME 7.0DME, turn right HDG207° to intercept and proceed via HME R177 to VADAR.  
 Cross VADAR at or above 9000FT.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.  
 Cross HME R120 at or above 5000FT, cross VADAR at or above 9000FT.

Note RWY04/34R/34L: 5.0% climb gradient required up to 700FT.

RWY05: 5.0% climb gradient required up to 1000FT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

OPPAR THREE DEPARTURE

RWY04/34R/34L: Climb RWY HDG to 700FT, turn right within 4NM, climb via HDG110° to HME 7.0DME, turn right, via HME 8.0DME clockwise ARC to intercept and proceed via HME R194 to OPPAR.

Cross HME 7.0DME at or above 3000FT, cross HME R120 at or above 5000FT, cross OPPAR at or above 9000FT.

RWY16R/16L: Climb RWY HDG to 500FT, turn left climb via HME R140 to 8.0DME, turn left HDG239° within HME 12.0DME to intercept and proceed via HME R194 to OPPAR.

Cross OPPAR at or above 9000FT.

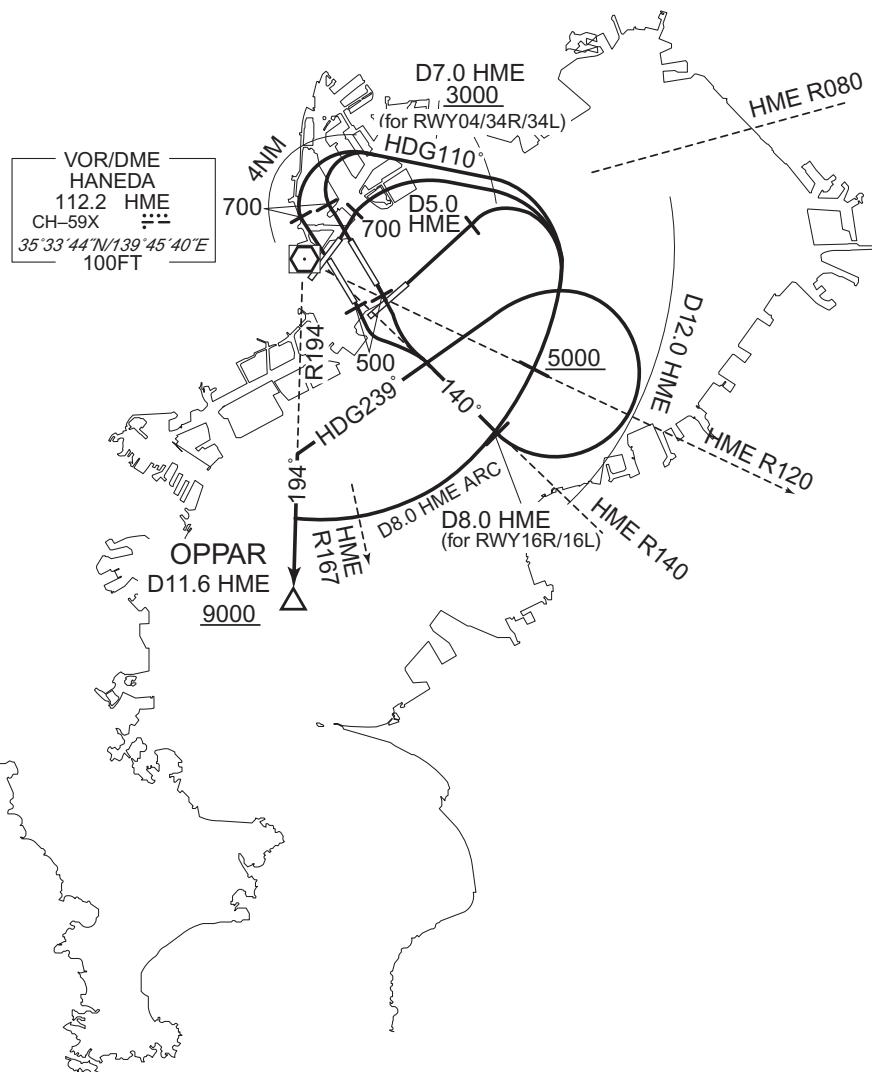
RWY05: Climb RWY HDG to HME 5.0DME, turn right, via HME 8.0DME clockwise ARC to intercept and proceed via HME R194 to OPPAR.

Cross HME R120 at or above 5000FT, cross OPPAR at or above 9000FT.

Note Aircraft taking off from RWY16R/16L are required to complete left turns south of HME R080.

RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

CHANGE : Description of PROC name and ALT.



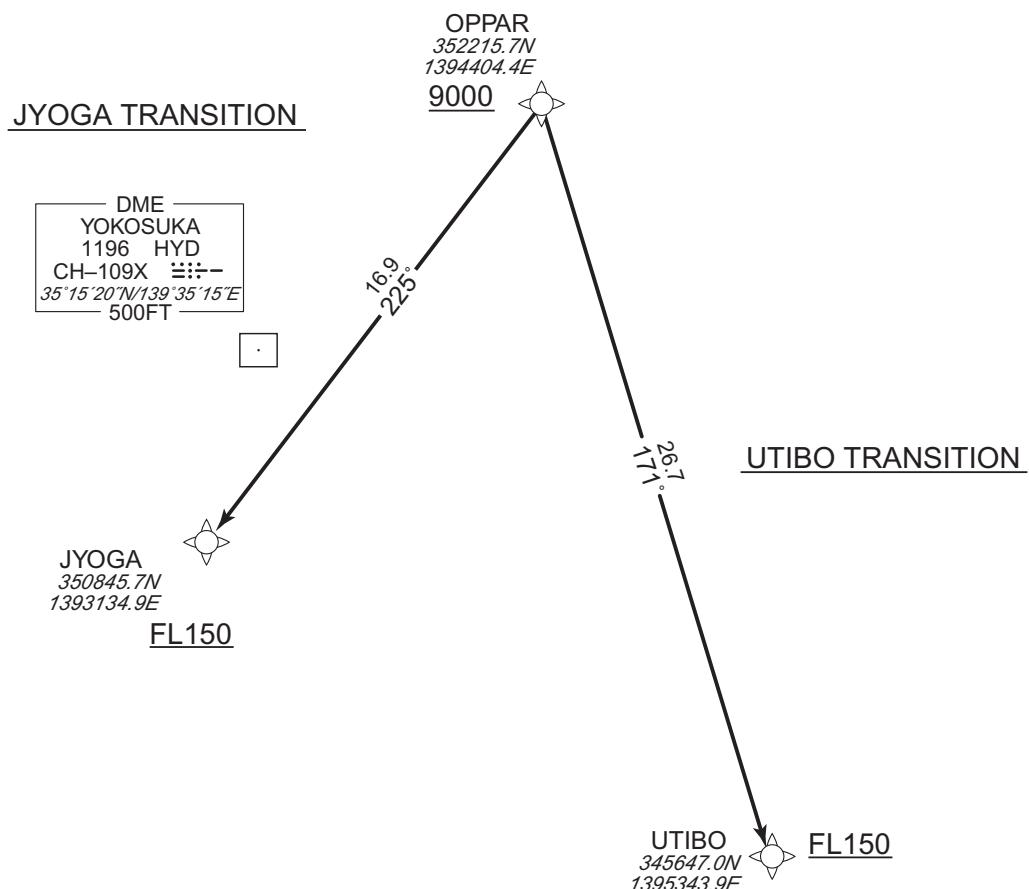
## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

JYOGA TRANSITION UTIBO TRANSITION		RNAV1
Note 1 ) DME/DME/IRU or GNSS required.	Critical DME	-
2 ) RADAR service required.	DME GAP	-
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

VAR 8° W



CHANGE : PROC course. VAR.

JYOGA TRANSITION

From OPPAR at or above 9000FT, to JYOGA at or above FL150.

UTIBO TRANSITION

From OPPAR at or above 9000FT, to UTIBO at or above FL150.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

JYOGA 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	OPPAR	—	—	-7.9	—	—	+9000	—	—	RNAV1
002	TF	JYOGA	—	225 (217.1)	-7.9	16.9	—	+FL150	—	—	RNAV1

UTIBO 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	OPPAR	—	—	-7.9	—	—	+9000	—	—	RNAV1
002	TF	UTIBO	—	171 (162.7)	-7.9	26.7	—	+FL150	—	—	RNAV1

CHANGE : PROC course. VAR.

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STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

ISOGO TWO DEPARTURE (FOR PROP ONLY)

RWY04/34R/34L: Climb RWY HDG to 700FT or above, turn left within 4NM, climb via HME R177 to VADAR.

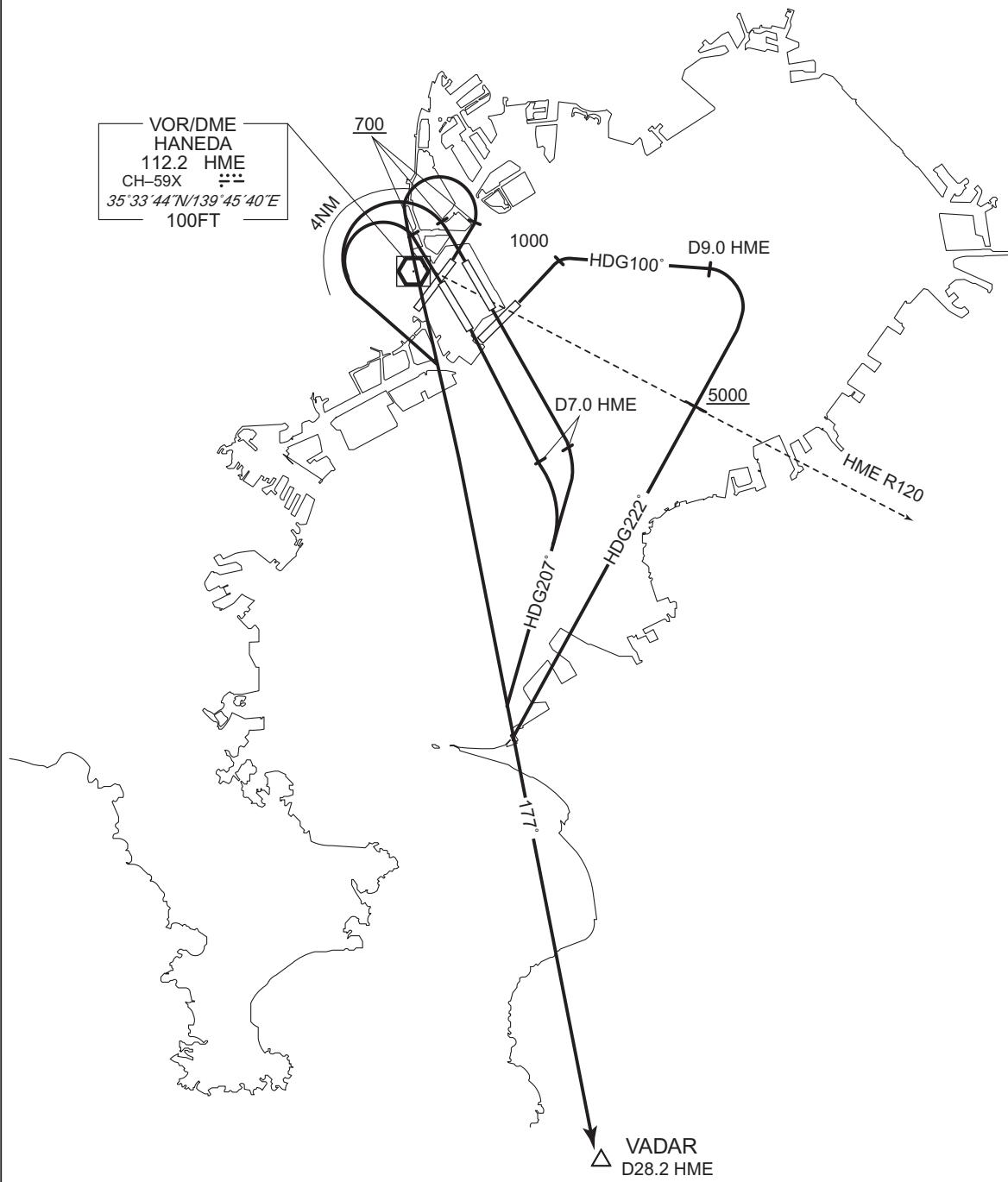
RWY16R/16L: Climb RWY HDG to HME 7.0DME, turn right HDG207° to intercept and proceed via HME R177 to VADAR.

RWY05: Climb RWY HDG to 1000FT, turn right HDG100° to HME 9.0DME, turn right HDG222° to intercept and proceed via HME R177 to VADAR.  
Cross HME R120 at or above 5000FT.

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.

RWY05: 5.0% climb gradient required up to 1000FT.

CHANGE : Description of PROC name and ALT.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

TRANSITION

OSHIMA TRANSITION

From over VADAR, via HME R177 to intercept and proceed via XAC R058 to XAC VORTAC.

CHIKURA TRANSITION

From over VADAR, via HME R177 to UTIBO.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS FOUR DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R:HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L:HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R:HME 1.0NM FM DER - 2.5NM to TT502 RWY34L:HME 0.5NM FM DER - 2.5NM to TT502 RWY04:HME 1.7NM FM DER - 2.5NM to TT502 RWY05:HME DER - 2.7NM to TT502
DME GAP  RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY22:DER - 1.4NM FM DER		
Inappropriate Navaids  See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		
VAR8°W		
<p>The chart shows the departure routes from RJTT/TOKYO INTL to VAMOS 9000. It includes the following key points and routes:</p> <ul style="list-style-type: none"> <li><b>VOR/DME HANEDA</b>: Located at 112.2, 35°33'44"N/139°45'40"E, 100FT. It has radial 223° to HOBBS and 050° to TT501.</li> <li><b>HOBBS</b>: Located at 600, 158°.</li> <li><b>BASSA</b>: Located at 500, 188°.</li> <li><b>T6R11</b>: Located at 5.8, 188°.</li> <li><b>TT501</b>: Located at 500, 050°.</li> <li><b>TT502</b>: Located at 5.2, 199°.</li> <li><b>LOCUP</b>: Located at 5000, 17.3°.</li> <li><b>VAMOS</b>: Located at 9000.</li> </ul> <p>The routes are labeled with their respective headings and distances from the departure point:</p> <ul style="list-style-type: none"> <li>Route 1: HANEDA → TT501 → TT502 → LOCUP → VAMOS (heading 050°)</li> <li>Route 2: HANEDA → TT501 → T6R11 → VAMOS (heading 188°)</li> <li>Route 3: HANEDA → TT501 → LOCUP → VAMOS (heading 199°)</li> <li>Route 4: HANEDA → BASSA → T6R11 → VAMOS (heading 188°)</li> <li>Route 5: HANEDA → BASSA → LOCUP → VAMOS (heading 17.3°)</li> </ul> <p>A note on the left side of the chart states: "CHANGE : PROC renamed. PROC course."</p>		

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS FOUR DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to VAMOS at or above 9000FT.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L21, to VAMOS at or above 9000FT.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY04: Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY05: Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS at or above 9000FT.

RWY22: Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to VAMOS at or above 9000FT.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS FOUR DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	207 (199.5)	-7.9	14.5	—	+9000	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	209 (200.7)	-7.9	15.4	—	+9000	—	—	RNAV1

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.9	17.3	—	+9000	—	—	RNAV1

## RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.9	17.3	—	+9000	—	—	RNAV1

CHANGE : PROC renamed. Course FM T6L21 to VAMOS. VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	VAMOS	—	217 (209.5)	-7.9	17.3	—	+9000	—	—	RNAV1

## RWY22

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	—	—	223 (214.9)	-7.9	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	BASSA	—	188 (179.9)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	VAMOS	—	188 (179.9)	-7.9	8.9	—	+9000	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	352108.8N / 1394542.2E	T6R11	352552.5N / 1395137.2E
HOBBS	352653.9N / 1394541.3E	TT501	353328.7N / 1395029.9E
LOCUP	352718.8N / 1395608.5E	TT502	353224.4N / 1395720.7E
T6L21	352639.1N / 1395222.0E	VAMOS	351215.5N / 1394543.6E

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL		RNAV TRANSITION
TATEYAMA TRANSITION / DRAKY TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required.  2) RADAR service required.	Critical DME	-
DME GAP	-	-
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	
<p>VAR8°W</p>		
CHANGE : Description of VAR.		

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

TATEYAMA TRANSITION

From VAMOS at or above 9000FT, to UTIBO.

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	VAMOS	–	–	-7.9	–	–	+9000	–	–	RNAV1
002	TF	UTIBO	–	165 (157.0)	-7.9	16.8	–	–	–	–	RNAV1

DRAKY TRANSITION

From VAMOS at or above 9000FT, to DRAKY, to XAC.

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	VAMOS	–	–	-7.9	–	–	+9000	–	–	RNAV1
002	TF	DRAKY	–	218 (210.2)	-7.9	22.2	–	–	–	–	RNAV1
003	TF	XAC	–	218 (210.1)	-7.9	11.9	–	–	–	–	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DRAKY	345301.7N / 1393205.5E	VAMOS	351215.5N / 1394543.6E
UTIBO	345647.0N / 1395343.9E	XAC	344244.1N / 1392450.5E

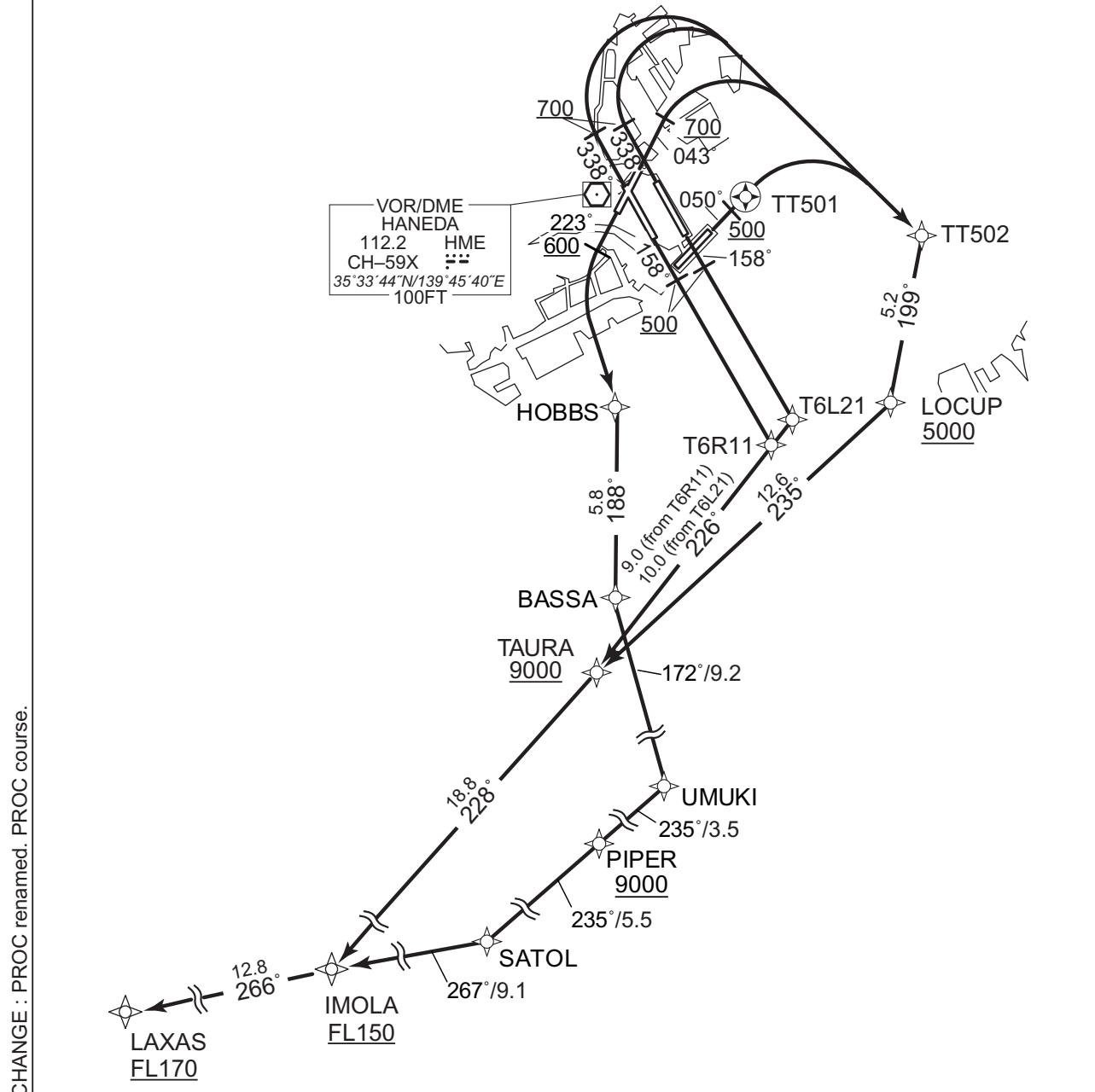
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS FOUR DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R: HME 1.2NM FM DER - 1.9NM to T6R11 HYD T6R11 - TAURA RWY16L: HME 1.0NM FM DER - 2.4NM to T6L21 HYD 9.0NM to TAURA - TAURA RWY34R: HME 1.0NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY34L: HME 0.5NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 HYD 8.6NM to TAURA - TAURA RWY05 : HME DER - 2.7NM to TT502 HYD 8.6NM to TAURA - TAURA
DME GAP  RWY16R:DER - 1.2NM FM DER RWY16L:DER - 1.0NM FM DER RWY34R:DER - 1.0NM FM DER RWY34L:DER - 0.5NM FM DER RWY04:DER - 1.7NM FM DER RWY05:DER - 1.4NM FM DER		
Inappropriate Navaids  See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8°W



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS FOUR DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L21, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TAURA at or above 9000FT, to IMOLA at or above FL150, to LAXAS at or above FL170.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to IMOLA at or above FL150, to LAXAS at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS FOUR DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	TAURA	—	226 (218.1)	-7.9	9.0	—	+9000	—	—	RNAV1
004	TF	IMOLA	—	228 (220.5)	-7.9	18.8	—	+FL150	—	—	RNAV1
005	TF	LAXAS	—	266 (258.6)	-7.9	12.8	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	TAURA	—	226 (218.1)	-7.9	10.0	—	+9000	—	—	RNAV1
004	TF	IMOLA	—	228 (220.5)	-7.9	18.8	—	+FL150	—	—	RNAV1
005	TF	LAXAS	—	266 (258.6)	-7.9	12.8	—	+FL170	—	—	RNAV1

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	TAURA	—	235 (227.3)	-7.9	12.6	—	+9000	—	—	RNAV1
005	TF	IMOLA	—	228 (220.5)	-7.9	18.8	—	+FL150	—	—	RNAV1
006	TF	LAXAS	—	266 (258.6)	-7.9	12.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	TAURA	—	235 (227.3)	-7.9	12.6	—	+9000	—	—	RNAV1
005	TF	IMOLA	—	228 (220.5)	-7.9	18.8	—	+FL150	—	—	RNAV1
006	TF	LAXAS	—	266 (258.6)	-7.9	12.8	—	+FL170	—	—	RNAV1

RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	TAURA	—	235 (227.3)	-7.9	12.6	—	+9000	—	—	RNAV1
006	TF	IMOLA	—	228 (220.5)	-7.9	18.8	—	+FL150	—	—	RNAV1
007	TF	LAXAS	—	266 (258.6)	-7.9	12.8	—	+FL170	—	—	RNAV1

CHANGE : VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY22

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	—	—	223 (214.9)	-7.9	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	BASSA	—	188 (179.9)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.9	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.9	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.9	5.5	—	—	—	—	RNAV1
007	TF	IMOLA	—	267 (258.7)	-7.9	9.1	—	+FL150	—	—	RNAV1
008	TF	LAXAS	—	266 (258.6)	-7.9	12.8	—	+FL170	—	—	RNAV1

Waypoint Coordinates

CHANGE : PROC course. VAR.

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	352108.8N / 1394542.2E	T6L21	352639.1N / 1395222.0E
HOBBS	352653.9N / 1394541.3E	T6R11	352552.5N / 1395137.2E
IMOLA	350426.0N / 1392951.0E	TAURA	351846.1N / 1394447.3E
LAXAS	350153.1N / 1391432.8E	TT501	353328.7N / 1395029.9E
LOCUP	352718.8N / 1395608.5E	TT502	353224.4N / 1395720.7E
PIPER	350958.3N / 1394542.0E	UMUKI	351219.1N / 1394849.2E
SATOL	350613.3N / 1394043.4E		

**STANDARD DEPARTURE CHART-INSTRUMENT**

RJTT/TOKYO INTL

## RNAV SID

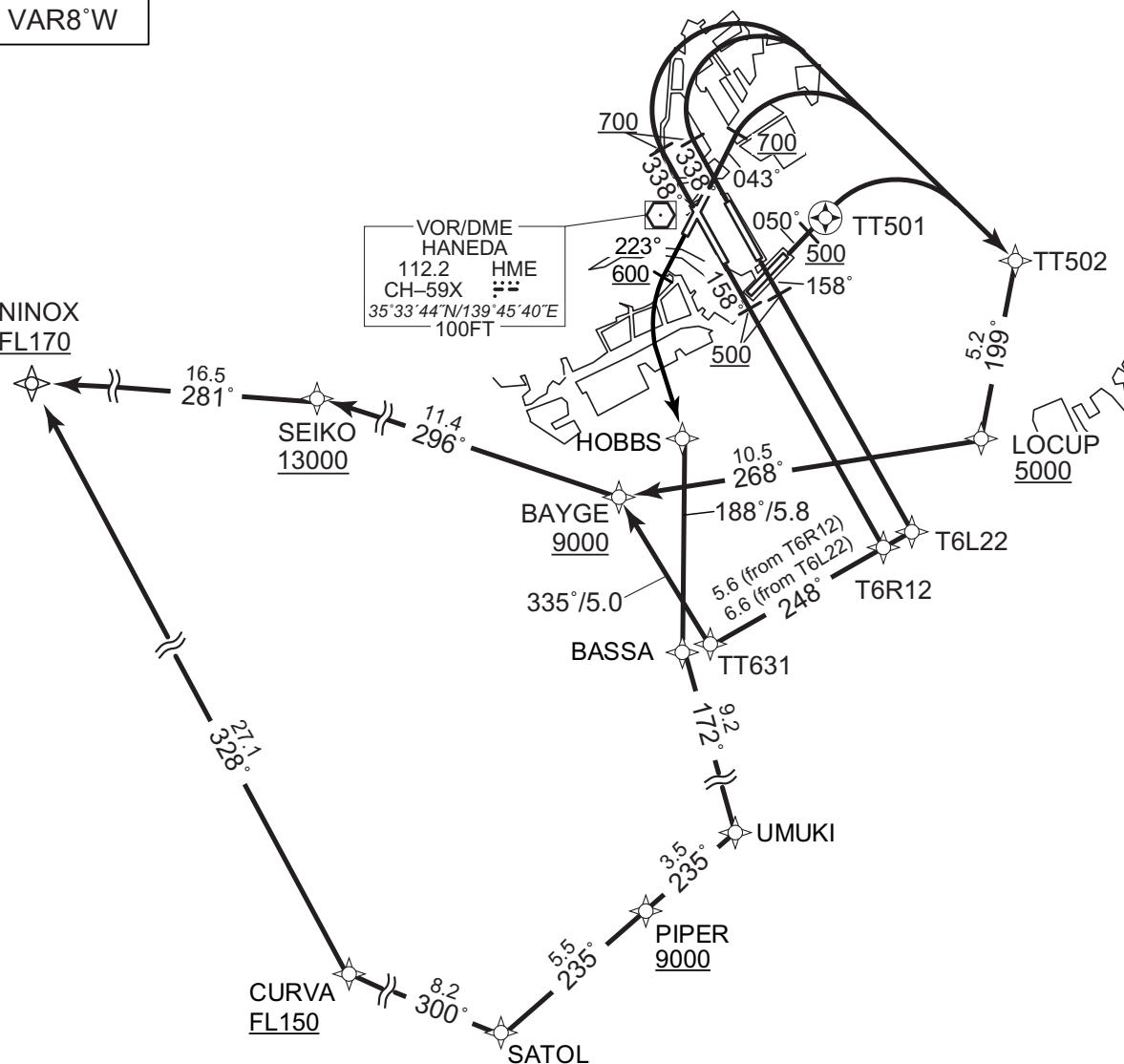
NINOX FOUR DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		RWY16R : HME 1.2NM FM DER - 3.8NM to T6R12 HYD T6R12 - TT631 PQD 1.0NM to BAYGE - 6.5NM to SEIKO RWY16L : HME 1.0NM FM DER - 4.7NM to T6L22 HYD 5.6NM to TT631 - TT631 PQD 1.0NM to BAYGE - 6.5NM to SEIKO RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO RWY05 : HME DER - 2.7NM to TT502 HYD 6.5NM to BAYGE – BAYGE PQD BAYGE - 6.5NM to SEIKO
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY22 : DER - 1.4NM FM DER	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W

NINOX  
FL170

VOR/DME  
 HANEDA  
 112.2 HME  
 CH-59X   
 35°33'44"N/139°45'40"E  


CHANGE : PROC renamed. PROC course.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX FOUR DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R12, to TT631, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L22, to TT631, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to BAYGE at or above 9000FT, to SEIKO at or above 13000FT, to NINOX at or above FL170.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to CURVA at or above FL150, to NINOX at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX FOUR DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R12	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	TT631	—	248 (239.8)	-7.9	5.6	—	—	—	—	RNAV1
004	TF	BAYGE	—	335 (327.0)	-7.9	5.0	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	296 (287.8)	-7.9	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.9	16.5	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L22	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	TT631	—	248 (239.8)	-7.9	6.6	—	—	—	—	RNAV1
004	TF	BAYGE	—	335 (327.0)	-7.9	5.0	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	296 (287.8)	-7.9	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.9	16.5	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. PROC course. VAR.

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	BAYGE	—	268 (260.6)	-7.9	10.5	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	296 (287.8)	-7.9	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.9	16.5	—	+FL170	—	—	RNAV1

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	BAYGE	—	268 (260.6)	-7.9	10.5	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	296 (287.8)	-7.9	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.9	16.5	—	+FL170	—	—	RNAV1

## RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	BAYGE	—	268 (260.6)	-7.9	10.5	—	+9000	—	—	RNAV1
006	TF	SEIKO	—	296 (287.8)	-7.9	11.4	—	+13000	—	—	RNAV1
007	TF	NINOX	—	281 (272.9)	-7.9	16.5	—	+FL170	—	—	RNAV1

CHANGE : PROC course, VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY22

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	—	—	223 (214.9)	-7.9	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	BASSA	—	188 (179.9)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.9	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.9	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.9	5.5	—	—	—	—	RNAV1
007	TF	CURVA	—	300 (292.2)	-7.9	8.2	—	+FL150	—	—	RNAV1
008	TF	NINOX	—	328 (319.6)	-7.9	27.1	—	+FL170	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	352108.8N / 1394542.2E	SEIKO	352904.5N / 1393005.0E
BAYGE	352535.4N / 1394327.4E	T6L22	352441.2N / 1395345.4E
CURVA	350919.0N / 1393124.4E	T6R12	352413.6N / 1395247.1E
HOBBS	352653.9N / 1394541.3E	TT501	353328.7N / 1395029.9E
LOCUP	352718.8N / 1395608.5E	TT502	353224.4N / 1395720.7E
NINOX	352953.4N / 1390953.1E	TT631	352123.4N / 1394648.6E
PIPER	350958.3N / 1394542.0E	UMUKI	351219.1N / 1394849.2E
SATOL	350613.3N / 1394043.4E		

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO A DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		RNAV1
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

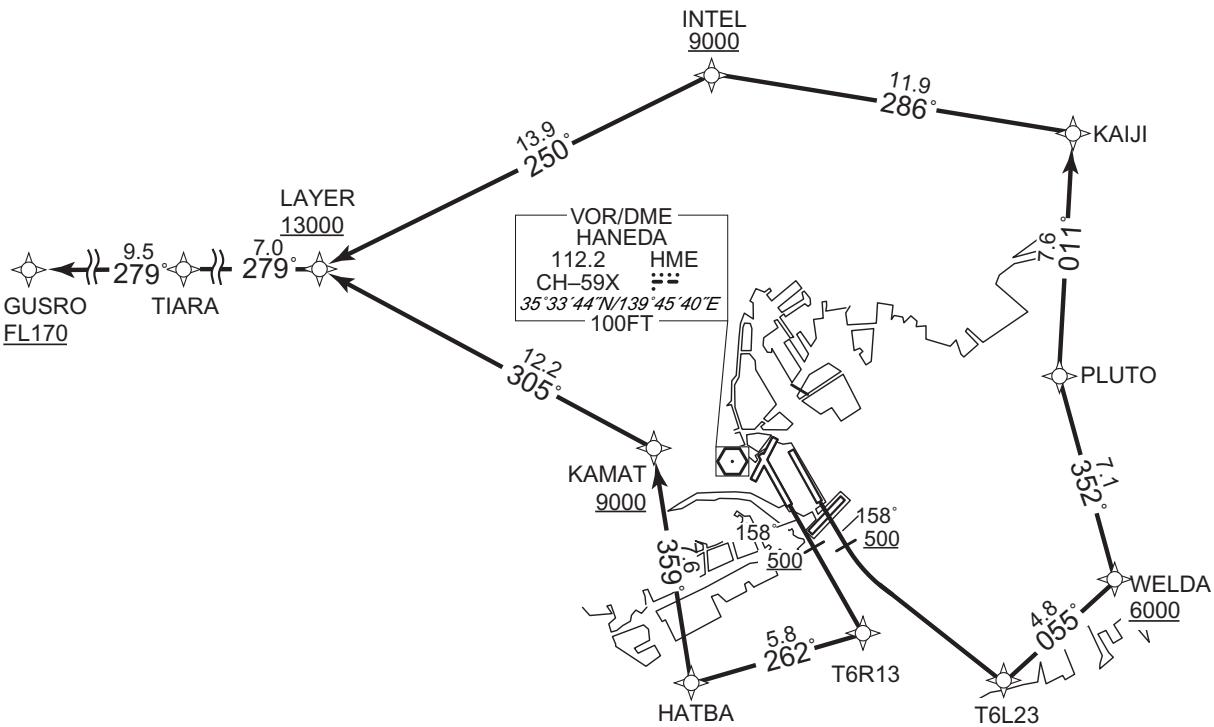
VAR8°W

TIARA TWO A DEPARTURE RWY16R/16L

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
TIARA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
TIARA B DEP	From 2200UTC to 0230UTC
TIARA C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. Course FM T6R13 to HATBA.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

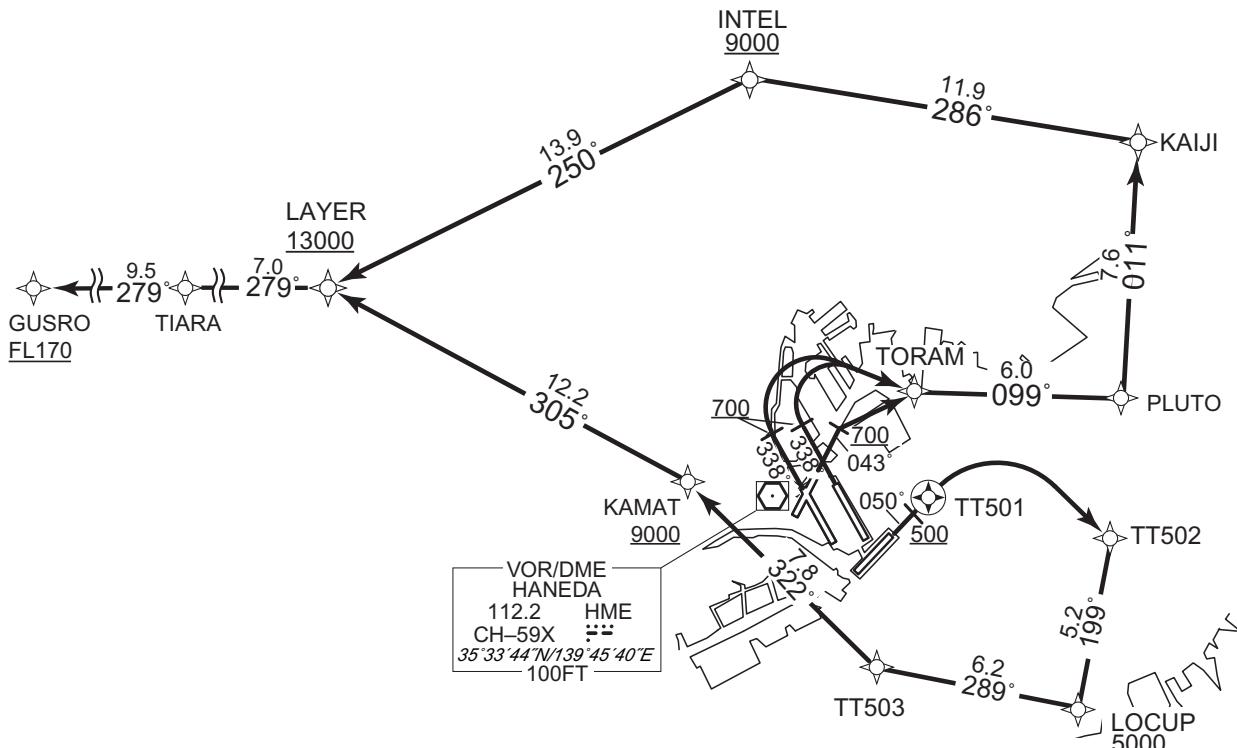
RNAV SID

VAR8°W

## TIARA TWO A DEPARTURE RWY 34L/34R/04/05

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
TIARA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
TIARA B DEP	From 2200UTC to 0230UTC
TIARA C DEP	About 3hours from 0600UTC to 1000UTC



CHANGE : PROC renamed. PROC course.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO A DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA TWO A DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	HATBA	—	262 (253.8)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.9	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
006	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
007	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	099 (090.7)	-7.9	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. PROC course. VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	099 (090.7)	-7.9	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	289 (280.8)	-7.9	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.9	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GUSRO	353944.8N / 1390813.1E	T6L23	352627.6N / 1395539.1E
HATBA	352623.4N / 1394315.9E	T6R13	352800.8N / 1395006.4E
INTEL	354553.0N / 1394340.2E	TIARA	353934.0N / 1391954.2E
KAIJI	354409.6N / 1395806.6E	TORAM	353636.8N / 1395011.0E
KAMAT	353353.6N / 1394148.9E	TT501	353328.7N / 1395029.9E
LAYER	353925.4N / 1392829.5E	TT502	353224.4N / 1395720.7E
LOCUP	352718.8N / 1395608.5E	TT503	352828.0N / 1394840.4E
PLUTO	353632.1N / 1395736.8E	WELDA	352941.4N / 1395956.7E

CHANGE : PROC course.VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

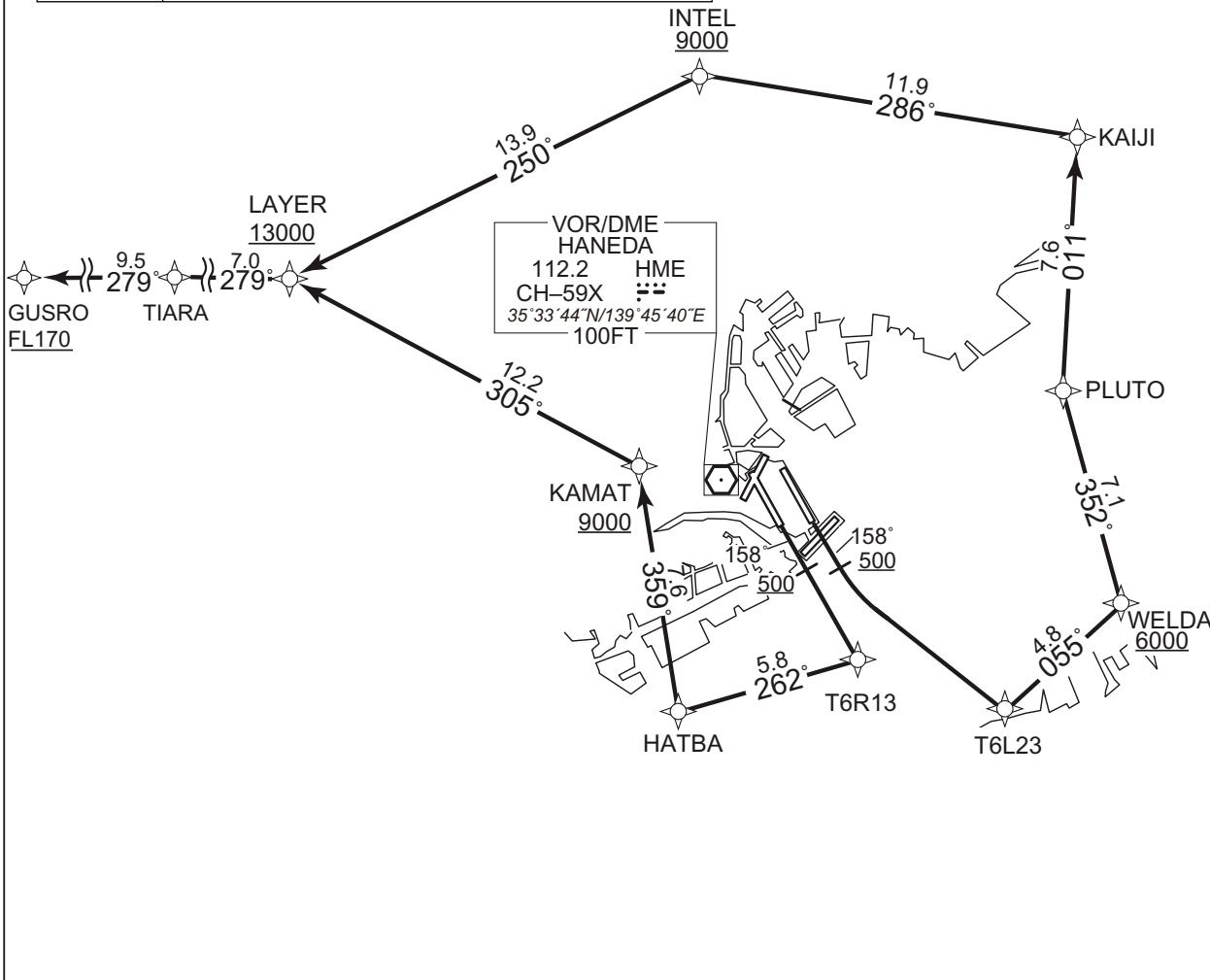
TIARA THREE B DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. *The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W

## TIARA THREE B DEPARTURE RWY16R/16L

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
TIARA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
TIARA B DEP	From 2200UTC to 0230UTC
TIARA C DEP	About 3hours from 0600UTC to 1000UTC



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

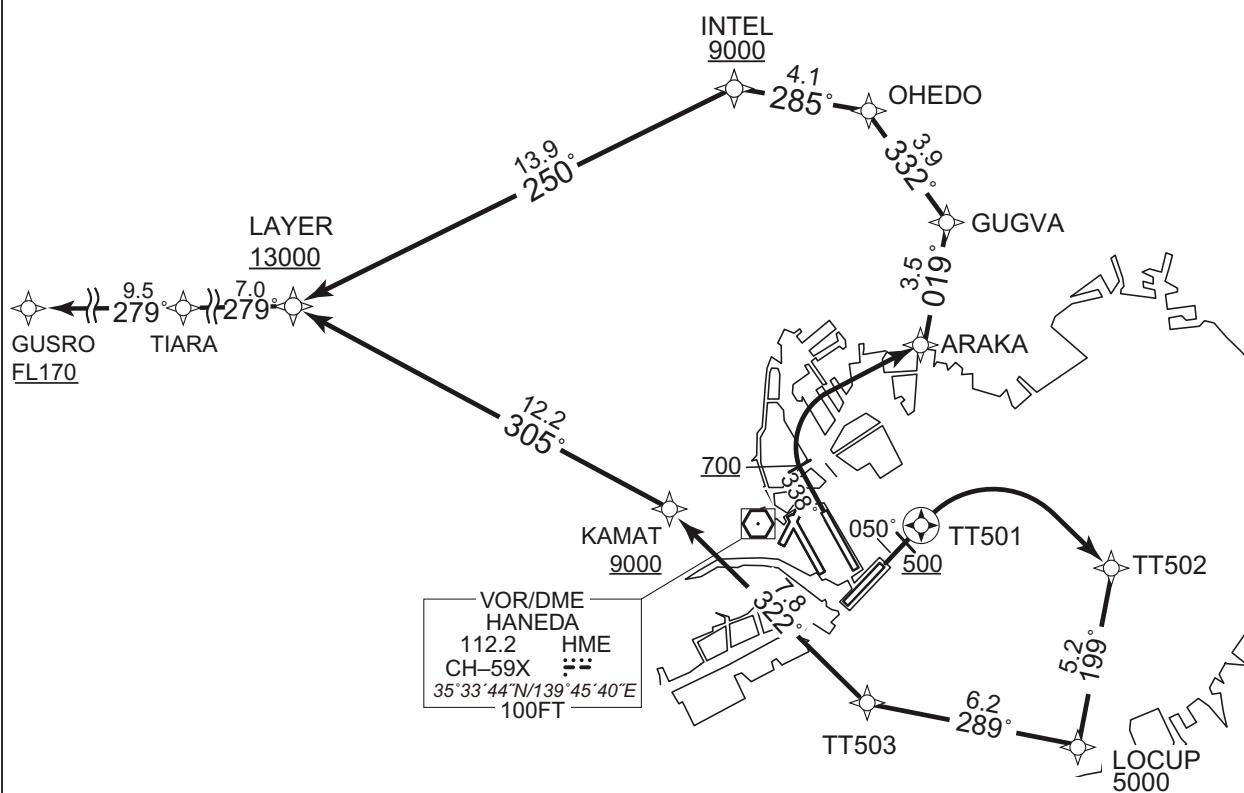
VAR8°W

TIARA THREE B DEPARTURE RWY 34R/05

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
TIARA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
TIARA B DEP	From 2200UTC to 0230UTC
TIARA C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA THREE B DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to GUGVA, to OHEDO, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## TIARA THREE B DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	HATBA	—	262 (253.8)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.9	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
006	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
007	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	GUGVA	—	019 (010.8)	-7.9	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	332 (323.7)	-7.9	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.9	4.1	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	289 (280.8)	-7.9	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.9	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

CHANGE : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	OHEDO	354523.4N / 1394838.6E
GUGVA	354214.0N / 1395129.9E	PLUTO	353632.1N / 1395736.8E
GUSRO	353944.8N / 1390813.1E	T6L23	352627.6N / 1395539.1E
HATBA	352623.4N / 1394315.9E	T6R13	352800.8N / 1395006.4E
INTEL	354553.0N / 1394340.2E	TIARA	353934.0N / 1391954.2E
KAIJI	354409.6N / 1395806.6E	TT501	353328.7N / 1395029.9E
KAMAT	353353.6N / 1394148.9E	TT502	353224.4N / 1395720.7E
LAYER	353925.4N / 1392829.5E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	WELDA	352941.4N / 1395956.7E

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA THREE C DEPARTURE

RNAV1

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

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.

2) RADAR service required.

DME GAP

RWY16R : DER - 1.2NM FM DER  
RWY16L : DER - 1.0NM FM DER  
RWY34R : DER - 1.0NM FM DER  
RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT

Critical DME

RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11  
PQD 6.6NM to KAIJI - KAIJI

NRE 6.9NM to INTEL - 6.9NM to LAYER  
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23

PQD 6.6NM to KAIJI - KAIJI  
NRE 6.9NM to INTEL - 6.9NM to LAYER

RWY05 : HME DER - 2.7NM to TT502

TT503 - 3.8NM to KAMAT  
1.8NM to KAMAT - KAMAT

HYD 1.2NM to TT503 - TT503  
4.8NM to KAMAT - 3.8NM to KAMAT

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

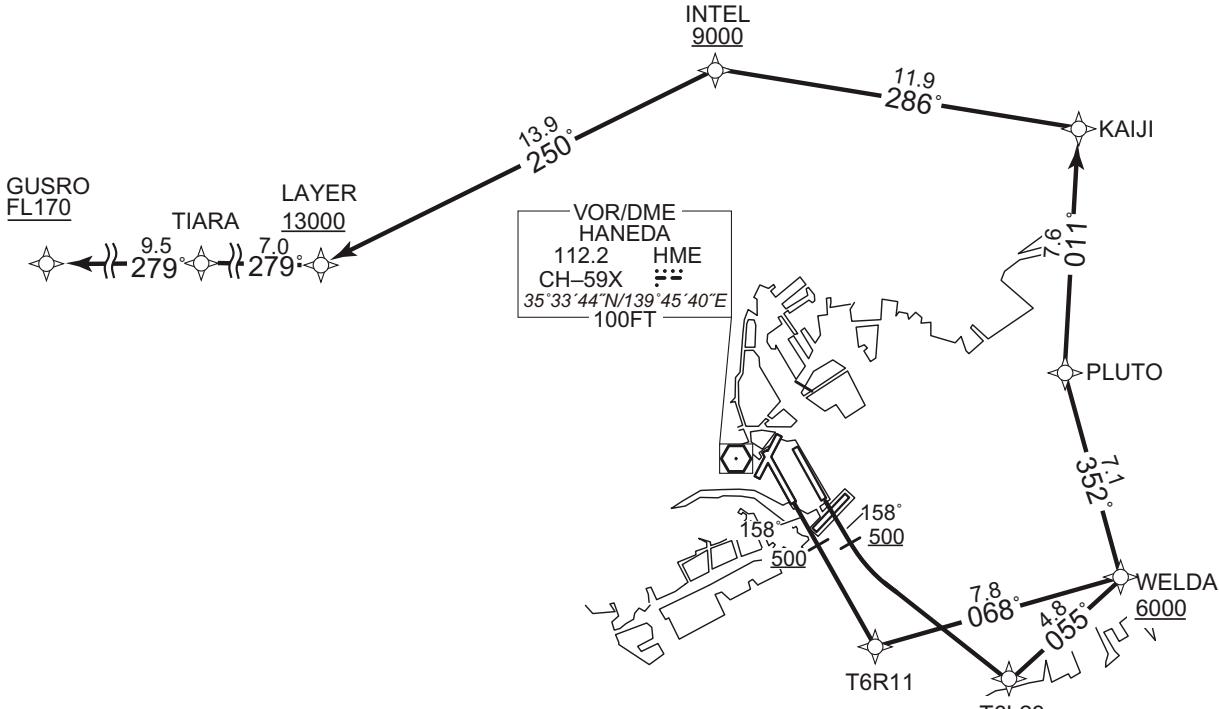
VAR8°W

TIARA THREE C DEPARTURE RWY16R/16L

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
TIARA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
TIARA B DEP	From 2200UTC to 0230UTC
TIARA C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

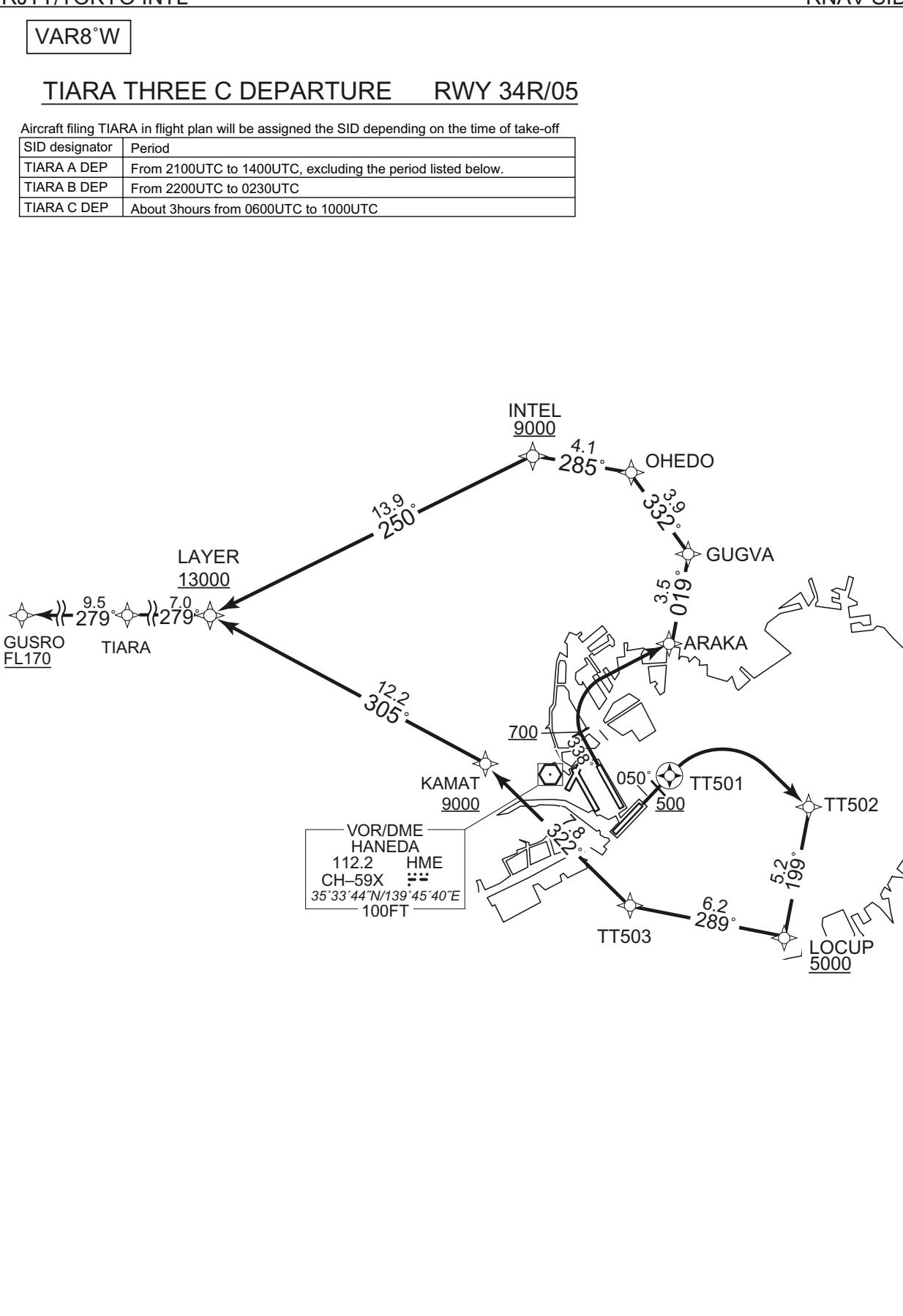
VAR8°W

TIARA THREE C DEPARTURE RWY 34R/05

Aircraft filing TIARA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
TIARA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
TIARA B DEP	From 2200UTC to 0230UTC
TIARA C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA THREE C DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to GUGVA, to OHEDO, to INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to GUSRO at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA THREE C DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.9	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

## RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	GUGVA	—	019 (010.8)	-7.9	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	332 (323.7)	-7.9	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.9	4.1	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.9	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.9	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.9	9.5	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05											
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	-	-	050 (042.4)	-7.9	-	-	+500	-	-	RNAV1
002	DF	TT501	Y	-	-7.9	-	-	-	-	-	RNAV1
003	DF	TT502	-	-	-7.9	-	R	-	-	-	RNAV1
004	TF	LOCUP	-	199 (190.9)	-7.9	5.2	-	+5000	-	-	RNAV1
005	TF	TT503	-	289 (280.8)	-7.9	6.2	-	-	-	-	RNAV1
006	TF	KAMAT	-	322 (314.2)	-7.9	7.8	-	+9000	-	-	RNAV1
007	TF	LAYER	-	305 (297.1)	-7.9	12.2	-	+13000	-	-	RNAV1
008	TF	TIARA	-	279 (271.2)	-7.9	7.0	-	-	-	-	RNAV1
009	TF	GUSRO	-	279 (271.1)	-7.9	9.5	-	+FL170	-	-	RNAV1

CHANGE : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	PLUTO	353632.1N / 1395736.8E
GUGVA	354214.0N / 1395129.9E	T6L23	352627.6N / 1395539.1E
GUSRO	353944.8N / 1390813.1E	T6R11	352552.5N / 1395137.2E
INTEL	354553.0N / 1394340.2E	TIARA	353934.0N / 1391954.2E
KAIJI	354409.6N / 1395806.6E	TT501	353328.7N / 1395029.9E
KAMAT	353353.6N / 1394148.9E	TT502	353224.4N / 1395720.7E
LAYER	353925.4N / 1392829.5E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	WELDA	352941.4N / 1395956.7E
OHEDO	354523.4N / 1394838.6E		

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE A DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		RNAV1
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME RWY16R : HME 1.2NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - INTEL RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

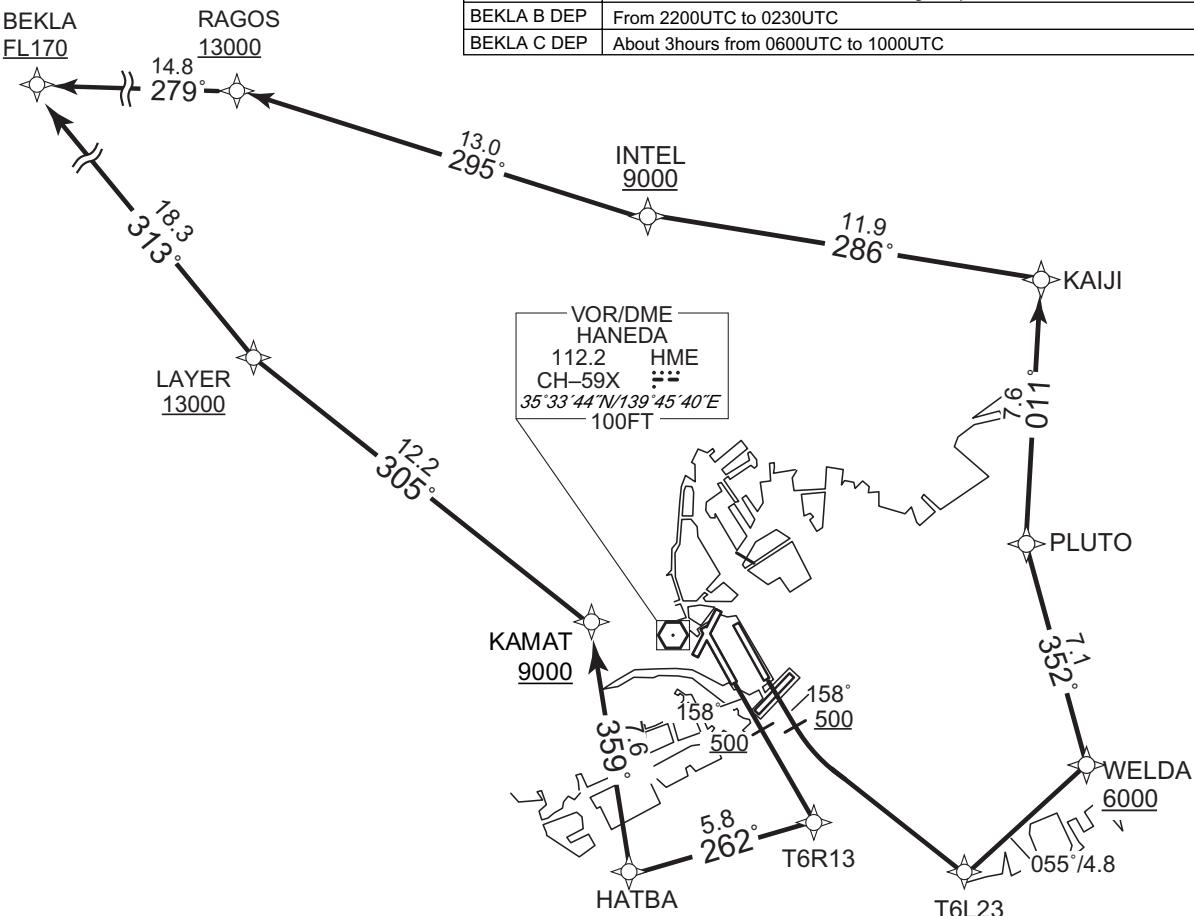
VAR8°W

BEKLA THREE A DEPARTURE RWY16R/16L

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
BEKLA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
BEKLA B DEP	From 2200UTC to 0230UTC
BEKLA C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. Course FM T6R13 to HATBA



STANDARD DEPARTURE CHART-INSTRUMENT

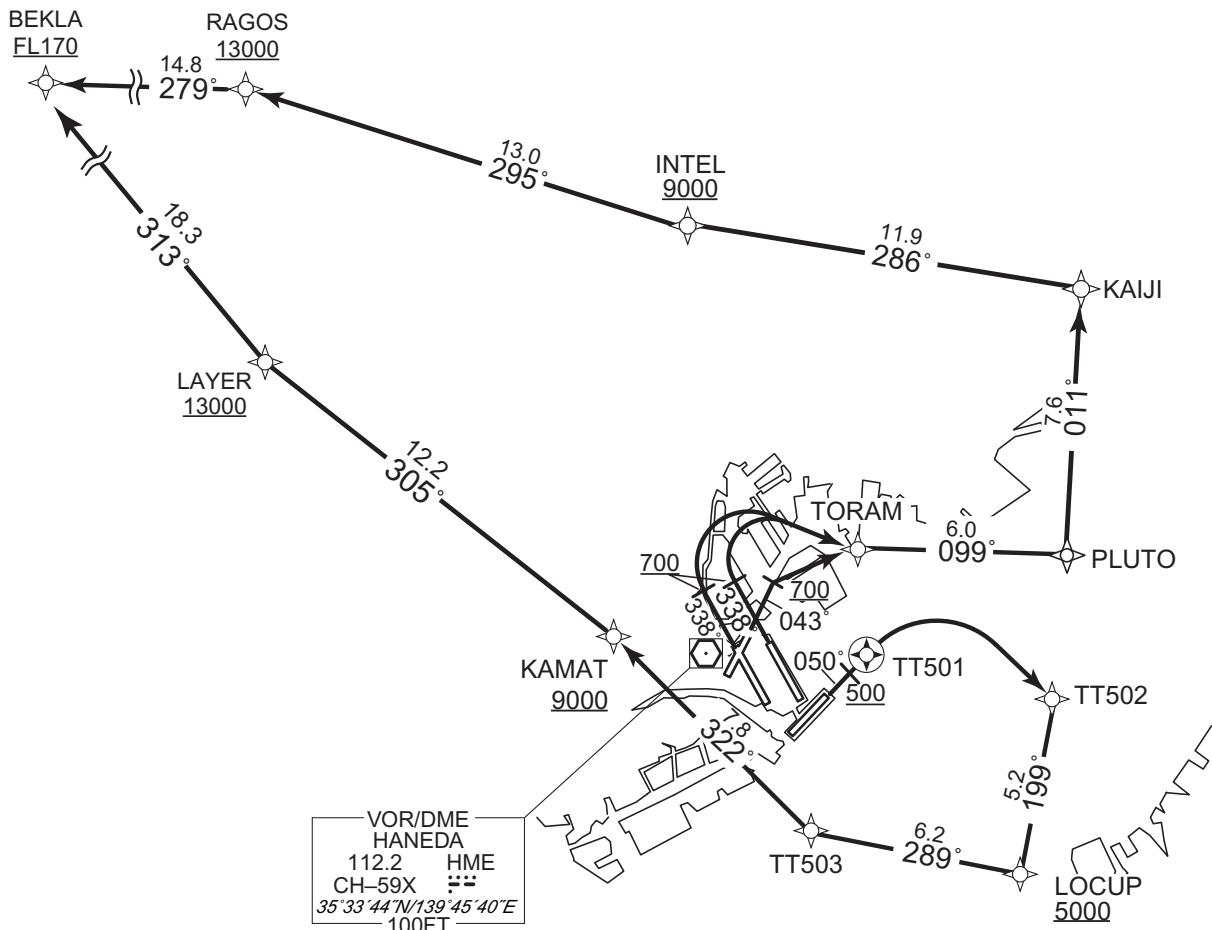
RJTT/TOKYO INTL

RNAV SID

VAR8°W

BEKLA THREE A DEPARTURE RWY34L/34R/04/05

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off	
SID designator	Period
BEKLA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
BEKLA B DEP	From 2200UTC to 0230UTC
BEKLA C DEP	About 3hours from 0600UTC to 1000UTC



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA THREE A DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, direct to TORAM, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## BEKLA THREE A DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	HATBA	—	262 (253.8)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.9	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
006	TF	BEKLA	—	313 (305.4)	-7.9	18.3	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. VAR.

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	099 (090.7)	-7.9	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	099 (090.7)	-7.9	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

## RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	289 (280.8)	-7.9	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.9	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.9	18.3	—	+FL170	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BEKLA	354958.7N / 1391009.5E	RAGOS	354942.2N / 1392821.2E
HATBA	352623.4N / 1394315.9E	T6L23	352627.6N / 1395539.1E
INTEL	354553.0N / 1394340.2E	T6R13	352800.8N / 1395006.4E
KAIJI	354409.6N / 1395806.6E	TORAM	353636.8N / 1395011.0E
KAMAT	353353.6N / 1394148.9E	TT501	353328.7N / 1395029.9E
LAYER	353925.4N / 1392829.5E	TT502	353224.4N / 1395720.7E
LOCUP	352718.8N / 1395608.5E	TT503	352828.0N / 1394840.4E
PLUTO	353632.1N / 1395736.8E	WELDA	352941.4N / 1395956.7E

CHANGE : PROC course. VAR.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR B DEPARTURE

RNAV1

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

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.

2) RADAR service required.

DME GAP

RWY16R : DER - 1.2NM FM DER  
RWY16L : DER - 1.0NM FM DER  
RWY34R : DER - 1.0NM FM DER  
RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT

Critical DME

RWY16R : HME 1.2NM FM DER - HATBA  
HYD 2.8NM to HATBA - 1.6NM to HATBA  
PQD HATBA - 1.6NM to KAMAT  
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23  
PQD 6.6NM to KAIJI - KAIJI  
NRE 6.9NM to INTEL - INTEL  
RWY05 : HME DER - 2.7NM to TT502  
TT503 - 3.8NM to KAMAT  
1.8NM to KAMAT - KAMAT  
HYD 1.2NM to TT503 - TT503  
4.8NM to KAMAT - 3.8NM to KAMAT

Inappropriate Navaids

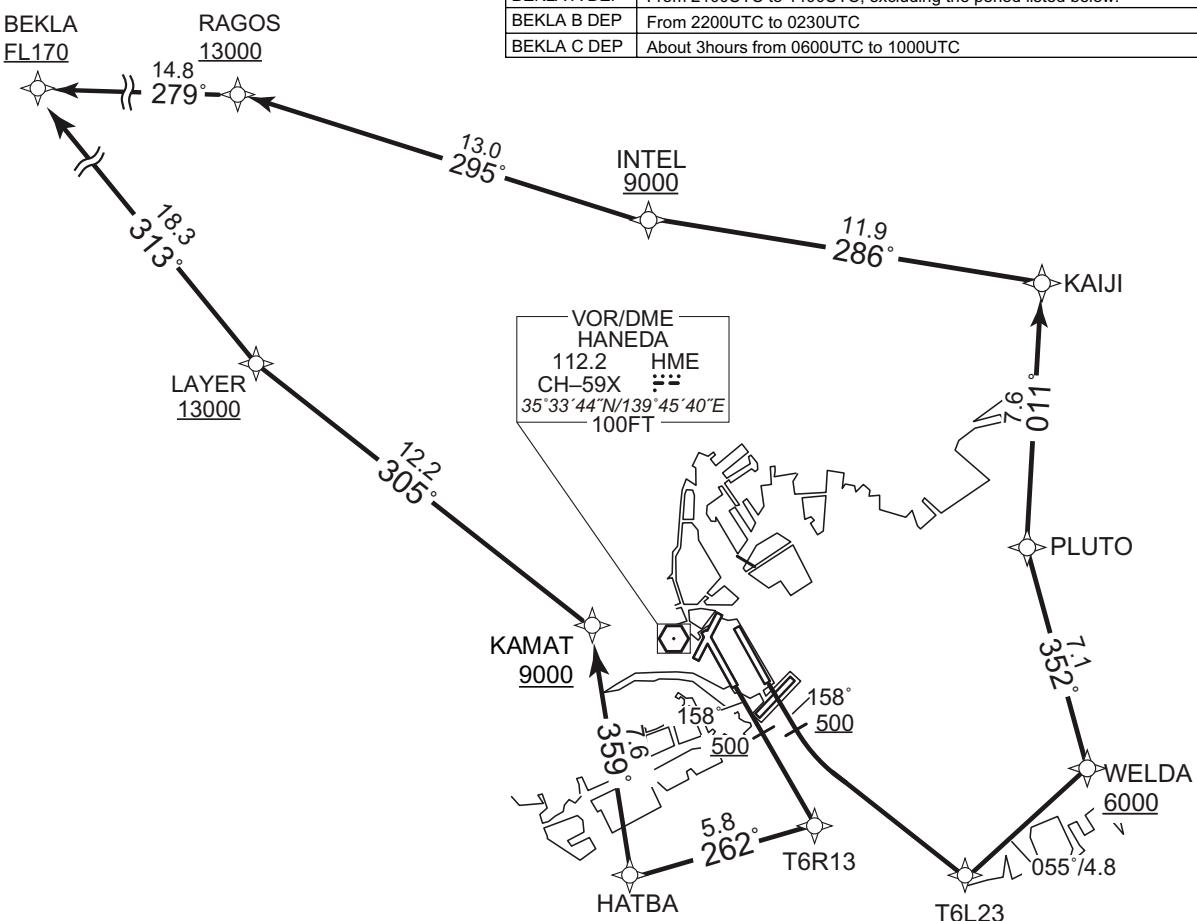
See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W

BEKLA FOUR B DEPARTURE RWY16R/16L

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
BEKLA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
BEKLA B DEP	From 2200UTC to 0230UTC
BEKLA C DEP	About 3hours from 0600UTC to 1000UTC



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

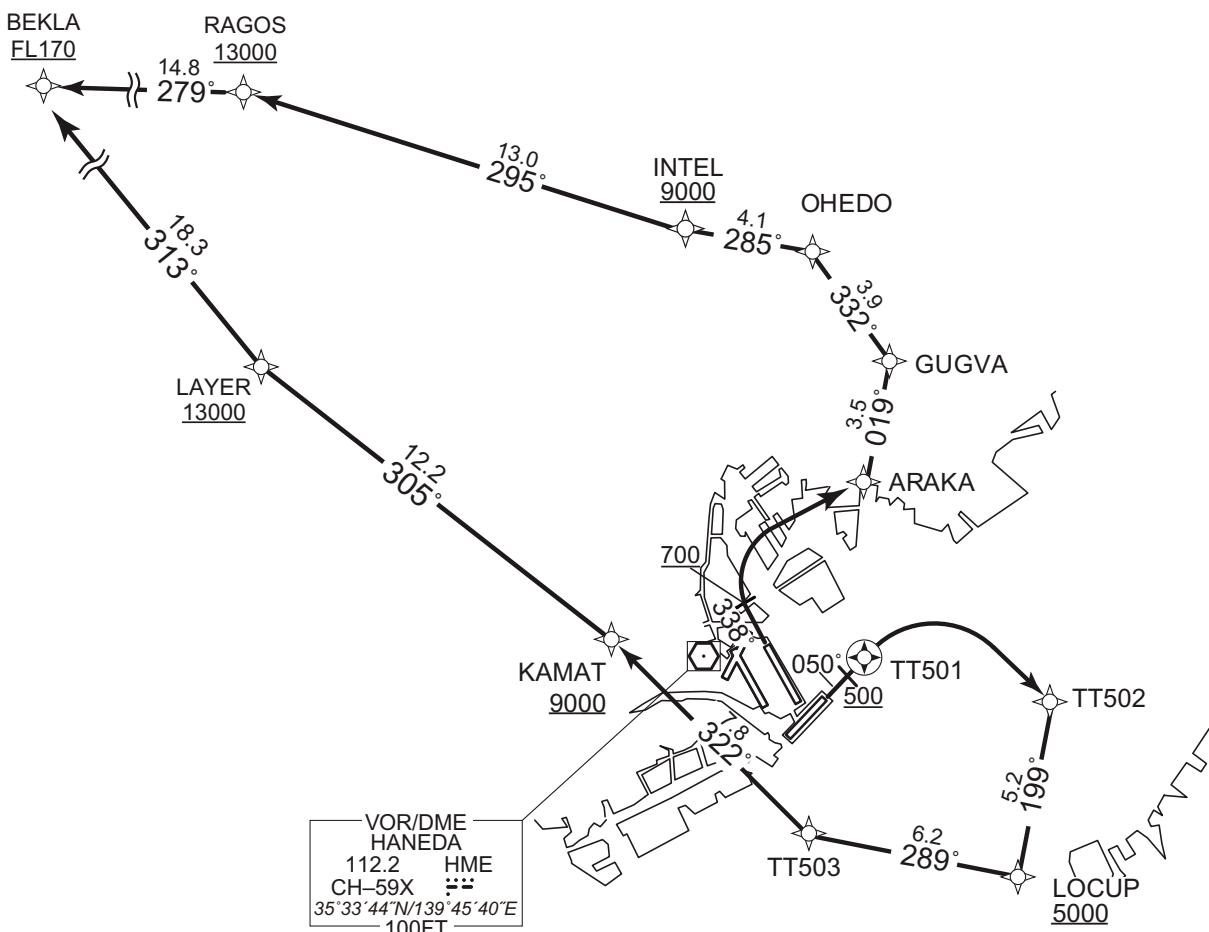
RNAV SID

VAR8°W

BEKLA FOUR B DEPARTURE RWY34R/05

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
BEKLA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
BEKLA B DEP	From 2200UTC to 0230UTC
BEKLA C DEP	About 3hours from 0600UTC to 1000UTC



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR B DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to GUGVA, to OHEDO, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FOUR B DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	HATBA	—	262 (253.8)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.9	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
006	TF	BEKLA	—	313 (305.4)	-7.9	18.3	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

## RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	GUGVA	—	019 (010.8)	-7.9	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	332 (323.7)	-7.9	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.9	4.1	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	289 (280.8)	-7.9	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.9	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.9	18.3	—	+FL170	—	—	RNAV1

CHANGE : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	OHEDO	354523.4N / 1394838.6E
BEKLA	354958.7N / 1391009.5E	PLUTO	353632.1N / 1395736.8E
GUGVA	354214.0N / 1395129.9E	RAGOS	354942.2N / 1392821.2E
HATBA	352623.4N / 1394315.9E	T6L23	352627.6N / 1395539.1E
INTEL	354553.0N / 1394340.2E	T6R13	352800.8N / 1395006.4E
KAIJI	354409.6N / 1395806.6E	TT501	353328.7N / 1395029.9E
KAMAT	353353.6N / 1394148.9E	TT502	353224.4N / 1395720.7E
LAYER	353925.4N / 1392829.5E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	WELDA	352941.4N / 1395956.7E

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

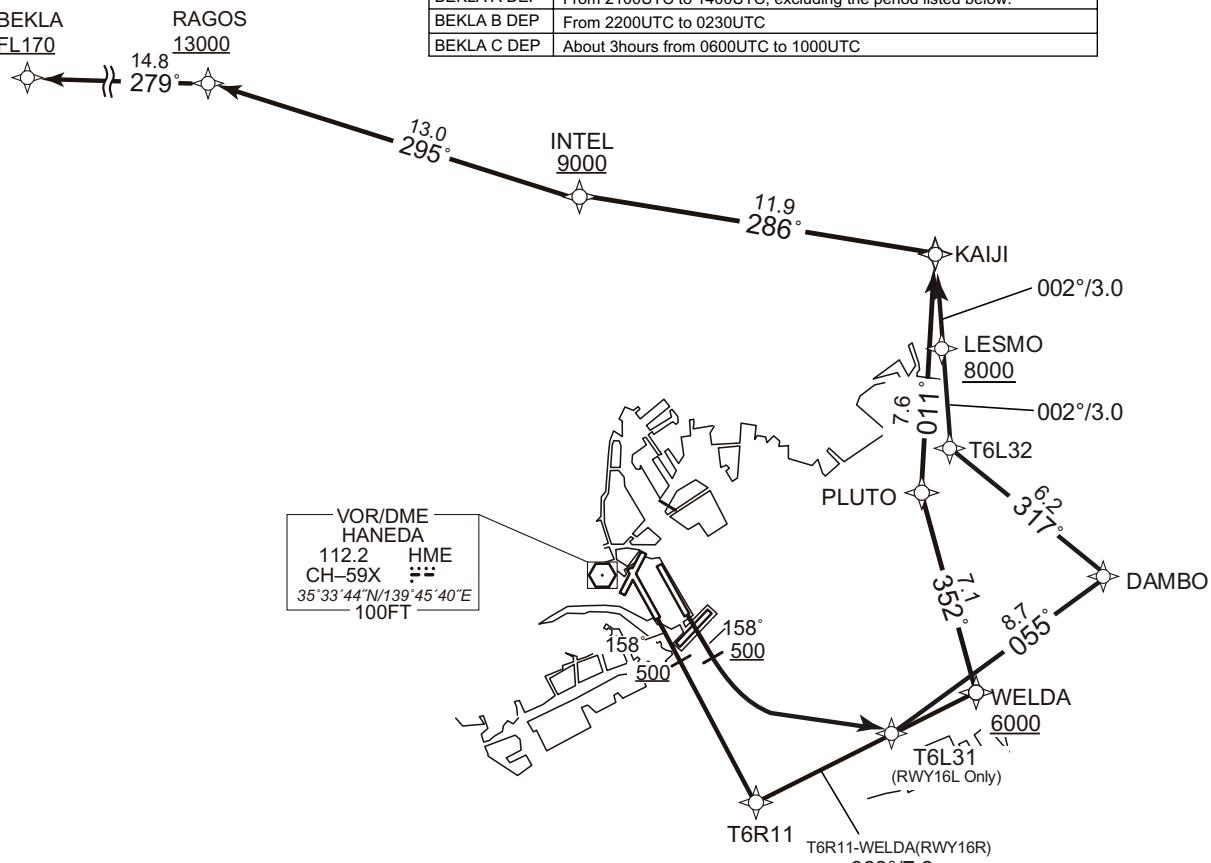
RNAV SID

BEKLA FIVE C DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT	Critical DME
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W

## BEKLA FIVE C DEPARTURE RWY16R/16L

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off	
SID designator	Period
BEKLA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
BEKLA B DEP	From 2200UTC to 0230UTC
BEKLA C DEP	About 3hours from 0600UTC to 1000UTC



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

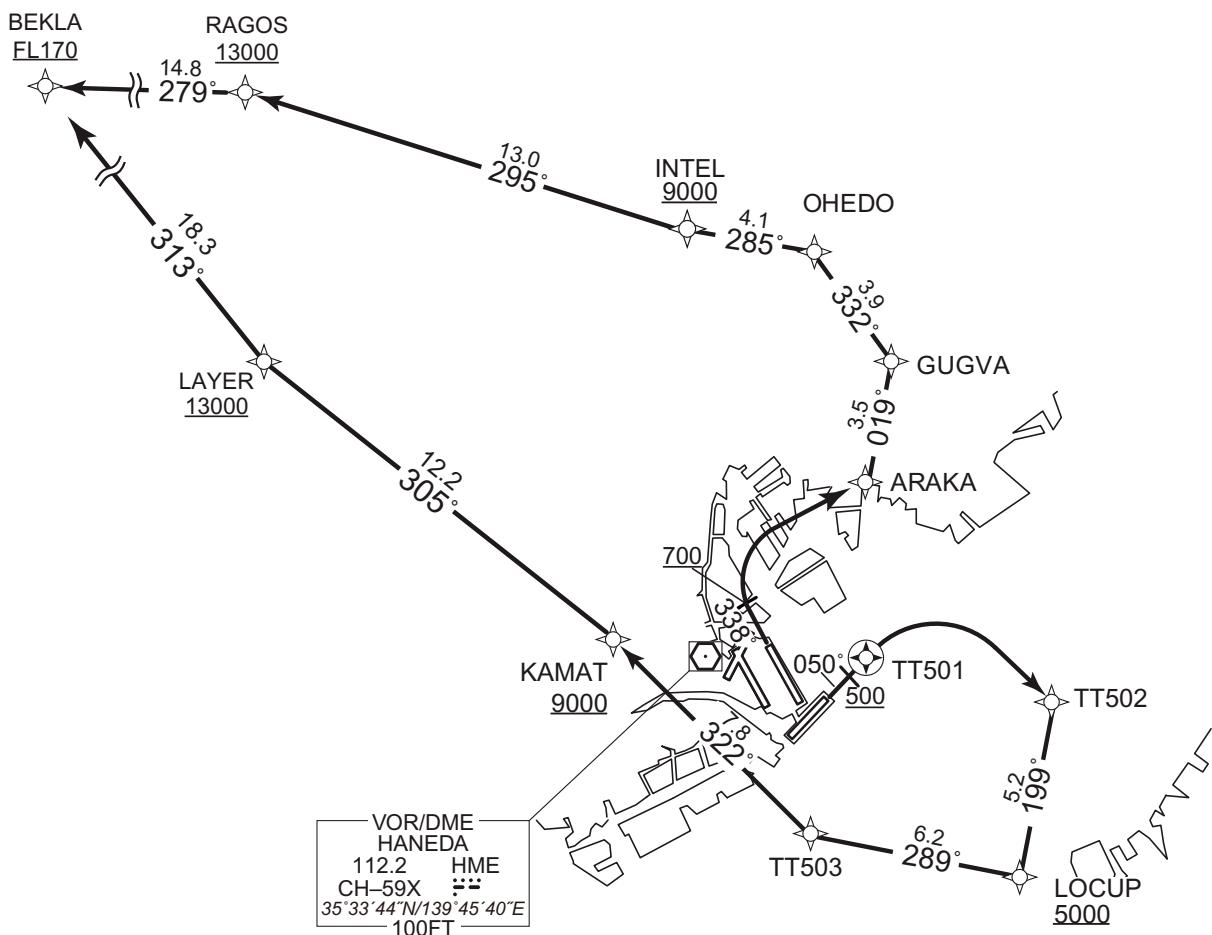
RNAV SID

VAR8°W

**BEKLA FIVE C DEPARTURE RWY34R/05**

Aircraft filing BEKLA in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
BEKLA A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
BEKLA B DEP	From 2200UTC to 0230UTC
BEKLA C DEP	About 3hours from 0600UTC to 1000UTC



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FIVE C DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L31, to DAMBO, to T6L32, to LESMO at or above 8000FT, to KAIJI, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to GUGVA, to OHEDO, to INTEL at or above 9000FT, to RAGOS at or above 13000FT, to BEKLA at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to BEKLA at or above FL170.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA FIVE C DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.9	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L31	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	DAMBO	—	055 (047.5)	-7.9	8.7	—	—	—	—	RNAV1
004	TF	T6L32	—	317 (309.4)	-7.9	6.2	—	—	—	—	RNAV1
005	TF	LESMO	—	002 (354.1)	-7.9	3.0	—	+8000	—	—	RNAV1
006	TF	KAIJI	—	002 (354.1)	-7.9	3.0	—	—	—	—	RNAV1
007	TF	INTEL	—	286 (278.4)	-7.9	11.9	—	+9000	—	—	RNAV1
008	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
009	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

## RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	GUGVA	—	019 (010.8)	-7.9	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	332 (323.7)	-7.9	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.9	4.1	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.9	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.9	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	289 (280.8)	-7.9	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.9	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.9	18.3	—	+FL170	—	—	RNAV1

CHANGE : GUGVA established. EDOUO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	OHEDO	354523.4N / 1394838.6E
BEKLA	354958.7N / 1391009.5E	PLUTO	353632.1N / 1395736.8E
DAMBO	353416.5N / 1400443.4E	RAGOS	354942.2N / 1392821.2E
GUGVA	354214.0N / 1395129.9E	T6L31	352822.8N / 1395648.0E
INTEL	354553.0N / 1394340.2E	T6L32	353810.9N / 1395852.2E
KAIJI	354409.6N / 1395806.6E	T6R11	352552.5N / 1395137.2E
KAMAT	353353.6N / 1394148.9E	TT501	353328.7N / 1395029.9E
LAYER	353925.4N / 1392829.5E	TT502	353224.4N / 1395720.7E
LESMO	354110.3N / 1395829.4E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	WELDA	352941.4N / 1395956.7E

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE A DEPARTURE		RNAV SID
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO SND TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO SND 2.2NM to TORAM - 3.1NM to PLUTO PQD 6.6NM to KAIJI - KAIJI RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI
DME GAP		RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER
Inappropriate Navaids		See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

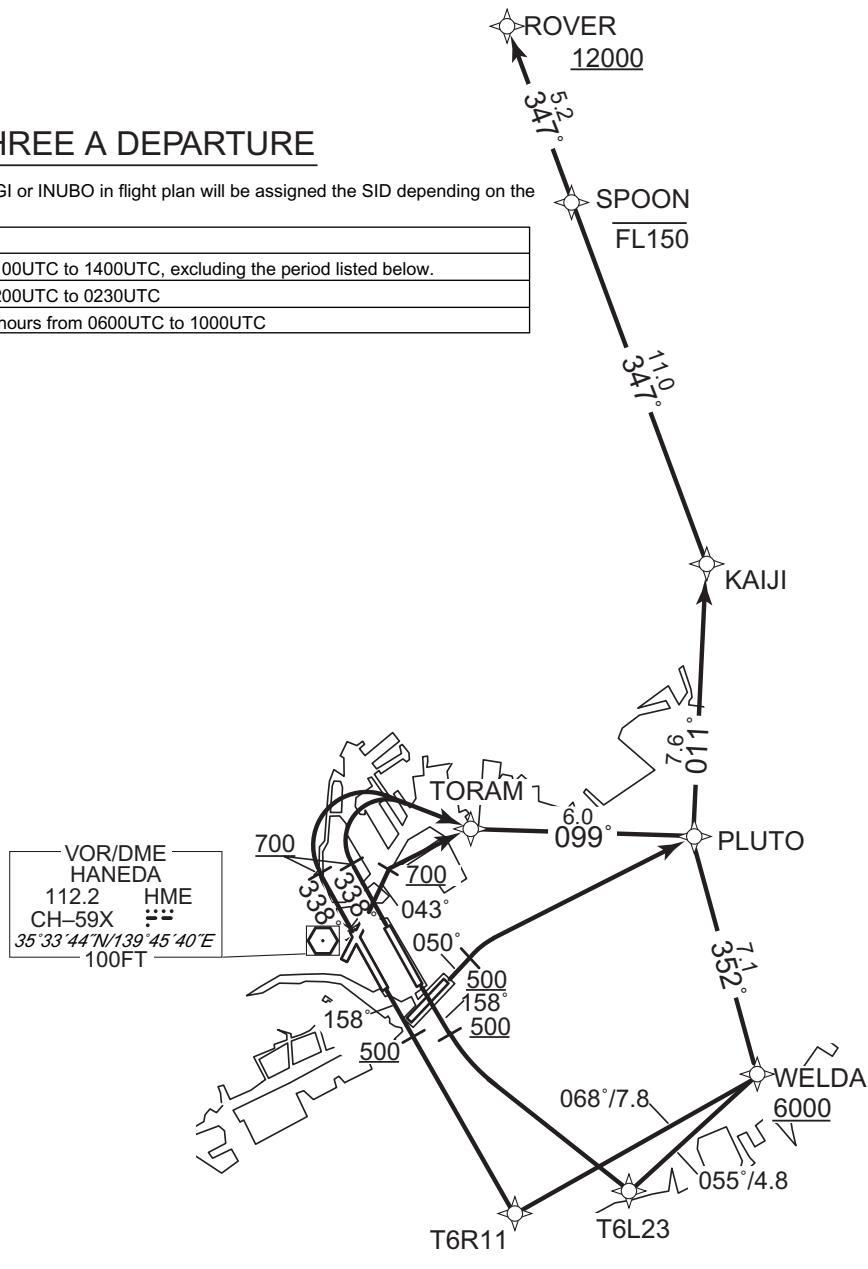
VAR8°W

ROVER THREE A DEPARTURE

Aircraft filing AGRIS, AKAGI or INUBO in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
ROVER A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
ROVER B DEP	From 2200UTC to 0230UTC
ROVER C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. Course FM TORAM to PLUTO.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER THREE A DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11,  
to WELDA at or above 6000FT, to PLUTO, to KAIJI,  
to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23,  
to WELDA at or above 6000FT, to PLUTO, to KAIJI,  
to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to  
TORAM, to PLUTO, to KAIJI, to SPOON at or below FL150,  
to ROVER at or above 12000FT.

RWY04 : Climb on HDG 043° at or above 700FT, direct to TORAM, to PLUTO,  
to KAIJI, to SPOON at or below FL150, to ROVER at or above  
12000FT.

RWY05 :Climb on HDG 050° at or above 500FT, turn right direct to PLUTO,  
to KAIJI, to SPOON at or below FL150, to ROVER at or above  
12000FT.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## ROVER THREE A DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.9	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	099 (090.7)	-7.9	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

CHANGE : PROC renamed. Course FM TORAM to PLUTO. VAR.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	099 (090.7)	-7.9	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

CHANGE : Course FM TORAM to PLUTO. VAR.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
KAIJI	354409.6N / 1395806.6E	T6L23	352627.6N / 1395539.1E
PLUTO	353632.1N / 1395736.8E	T6R11	352552.5N / 1395137.2E
ROVER	355918.3N / 1395059.3E	TORAM	353636.8N / 1395011.0E
SPOON	355428.3N / 1395316.0E	WELDA	352941.4N / 1395956.7E

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR B DEPARTURE

RNAV1

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

※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.

2) RADAR service required.

DME GAP

RWY16R : DER - 1.2NM FM DER  
RWY16L : DER - 1.0NM FM DER  
RWY34R : DER - 1.0NM FM DER

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11  
PQD 6.6NM to KAIJI - KAIJI  
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23  
PQD 6.6NM to KAIJI - KAIJI  
RWY05 : HME DER - 2.2NM to PLUTO  
PQD 6.6NM to KAIJI - KAIJI

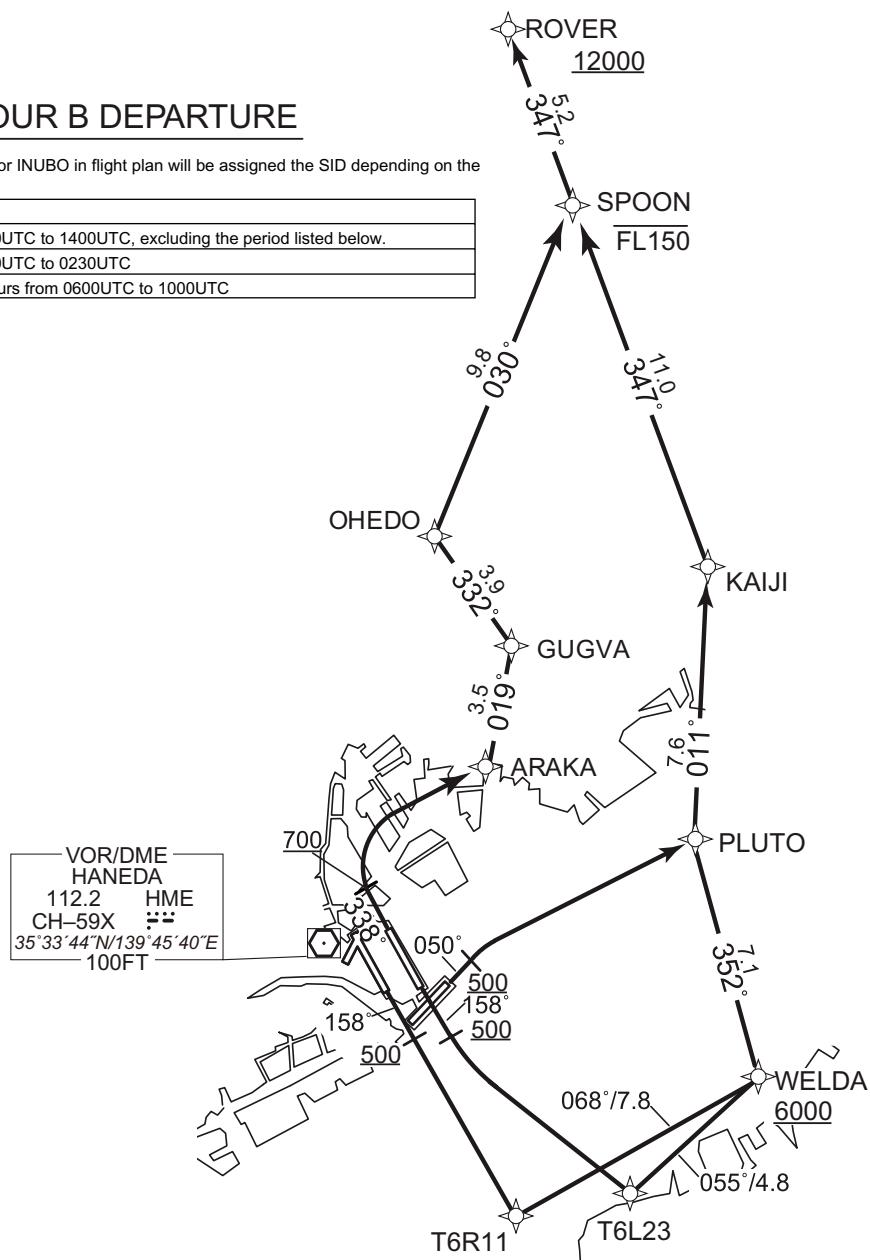
VAR8°W

ROVER FOUR B DEPARTURE

Aircraft filing AGRIS, AKAGI or INUBO in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
ROVER A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
ROVER B DEP	From 2200UTC to 0230UTC
ROVER C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR B DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L23, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to GUGVA, to OHEDO, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 :Climb on HDG 050° at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR B DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.9	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.9	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	GUGVA	—	019 (010.8)	-7.9	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	332 (323.7)	-7.9	3.9	—	—	—	—	RNAV1
005	TF	SPOON	—	030 (022.4)	-7.9	9.8	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

CHANGE : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	ROVER	355918.3N / 1395059.3E
GUGVA	354214.0N / 1395129.9E	SPOON	355428.3N / 1395316.0E
KAIJI	354409.6N / 1395806.6E	T6L23	352627.6N / 1395539.1E
OHEDO	354523.4N / 1394838.6E	T6R11	352552.5N / 1395137.2E
PLUTO	353632.1N / 1395736.8E	WELDA	352941.4N / 1395956.7E

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR C DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI  RWY05 : HME DER - 2.2NM to PLUTO PQD 6.6NM to KAIJI - KAIJI
DME GAP  RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER		
Inappropriate Navaids  See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

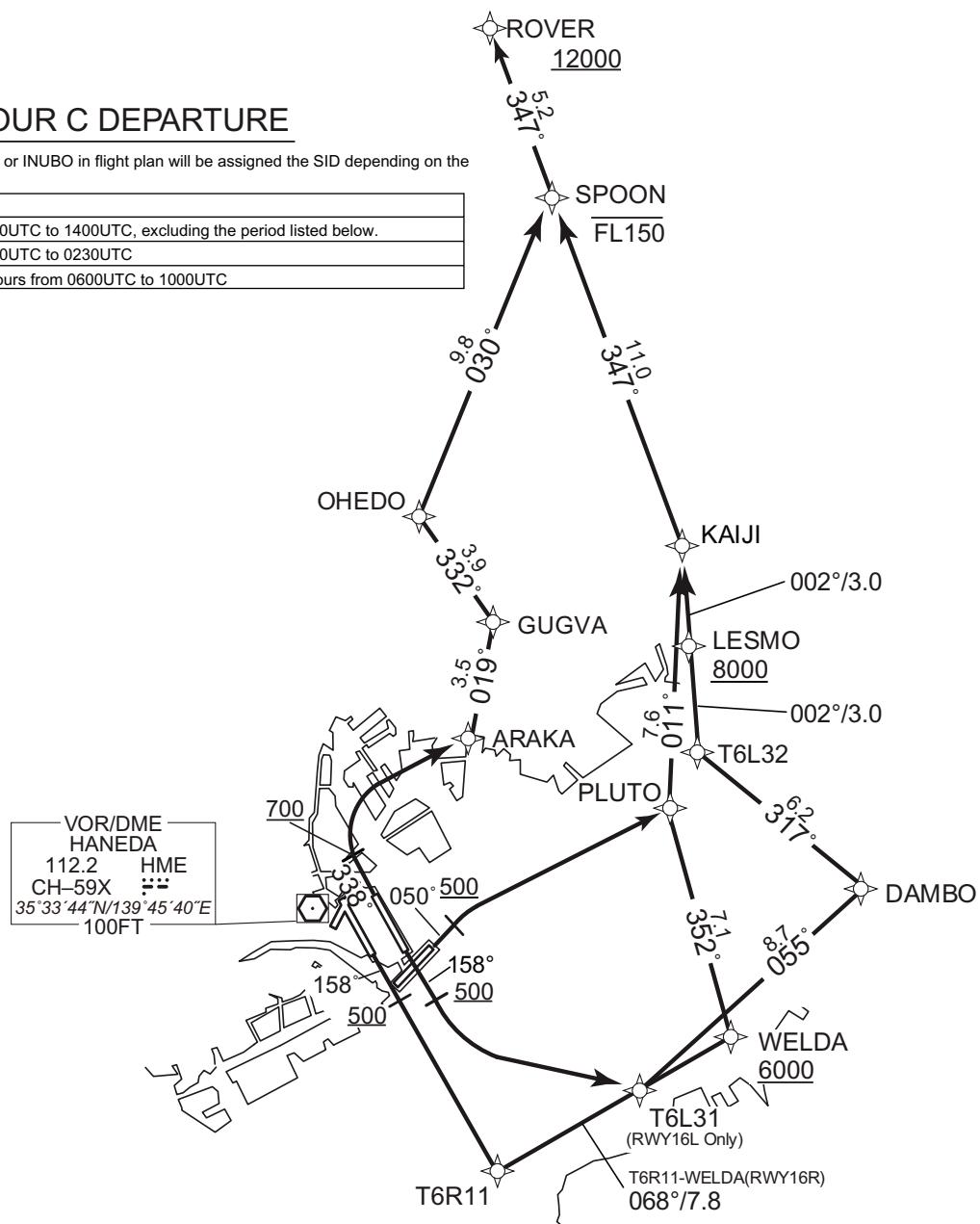
VAR8°W

ROVER FOUR C DEPARTURE

Aircraft filing AGRIS, AKAGI or INUBO in flight plan will be assigned the SID depending on the time of take-off

SID designator	Period
ROVER A DEP	From 2100UTC to 1400UTC, excluding the period listed below.
ROVER B DEP	From 2200UTC to 0230UTC
ROVER C DEP	About 3hours from 0600UTC to 1000UTC

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR C DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to WELDA at or above 6000FT, to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY16L : Climb on HDG 158° at or above 500FT, turn left direct to T6L31, to DAMBO, to T6L32, to LESMO at or above 8000FT, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY34R : Climb on HDG 338° at or above 700FT, turn right direct to ARAKA, to GUGVA, to OHEDO, to SPOON at or below FL150, to ROVER at or above 12000FT.

RWY05 :Climb on HDG 050° at or above 500FT, turn right direct to PLUTO, to KAIJI, to SPOON at or below FL150, to ROVER at or above 12000FT.

Note RWY34R : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. GUGVA established. EDOJO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER FOUR C DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.9	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.9	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L31	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	DAMBO	—	055 (047.5)	-7.9	8.7	—	—	—	—	RNAV1
004	TF	T6L32	—	317 (309.4)	-7.9	6.2	—	—	—	—	RNAV1
005	TF	LESMO	—	002 (354.1)	-7.9	3.0	—	+8000	—	—	RNAV1
006	TF	KAIJI	—	002 (354.1)	-7.9	3.0	—	—	—	—	RNAV1
007	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
008	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

## RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	GUGVA	—	019 (010.8)	-7.9	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	332 (323.7)	-7.9	3.9	—	—	—	—	RNAV1
005	TF	SPOON	—	030 (022.4)	-7.9	9.8	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

CHANGE : PROC renamed. GUGVA established. EDOUO abolished.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.9	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.9	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.9	5.2	—	+12000	—	—	RNAV1

CHANGE : GUGVA established. EDOJO abolished.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	ROVER	355918.3N / 1395059.3E
DAMBO	353416.5N / 1400443.4E	SPOON	355428.3N / 1395316.0E
GUGVA	354214.0N / 1395129.9E	T6L31	352822.8N / 1395648.0E
KAIJI	354409.6N / 1395806.6E	T6L32	353810.9N / 1395852.2E
LESMO	354110.3N / 1395829.4E	T6R11	352552.5N / 1395137.2E
OHEDO	354523.4N / 1394838.6E	WELDA	352941.4N / 1395956.7E
PLUTO	353632.1N / 1395736.8E		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL		RNAV TRANSITION
AKAGI TRANSITION / BRUCE TRANSITION/ INUBO TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required.  2) RADAR service required.	Critical DME	-
DME CAP	-	-
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	
VAR8°W		
<p><b>AKAGI TRANSITION</b></p> <p>AKAGI → 351° 172° → CLARK → 351° 8.1° → ROVER → 139° 007° → AGRIS</p> <p><b>BRUCE TRANSITION</b></p> <p>AGRIS → 007° 133° → BRUCE FL150 → 087° 9.6° → LEWIS FL170 → 087° 7.3° → SILVA FL170</p> <p><b>INUBO TRANSITION</b></p> <p>SILVA FL170 → 087° 150° → 40.2° → INUBO FL250</p> <p><b>VOR/DME NARITA</b></p> <ul style="list-style-type: none"> <li>117.9 CH-126X</li> <li>NRE</li> <li>35°46'56"N/140°21'45"E</li> <li>200FT</li> </ul>		

CHANGE : PROC course.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

AKAGI TRANSITION

From ROVER, to CLARK, to AKAGI.

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	ROVER	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	CLARK	—	351 (342.7)	-7.9	8.1	—	—	—	—	RNAV1
003	TF	AKAGI	—	351 (343.4)	-7.9	17.2	—	—	—	—	RNAV1

BRUCE TRANSITION

From ROVER, to BRUCE at or above FL150, to AGRIS.

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	ROVER	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	BRUCE	—	029 (020.7)	-7.9	13.6	—	+FL150	—	—	RNAV1
003	TF	AGRIS	—	007 (358.7)	-7.9	13.3	—	—	—	—	RNAV1

INUBO TRANSITION

From ROVER, to BRUCE at or above FL150, to LEWIS at FL170, to SILVA at FL170, to INUBO at or above FL250.

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	ROVER	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	BRUCE	—	029 (020.7)	-7.9	13.6	—	+FL150	—	—	RNAV1
003	TF	LEWIS	—	087 (078.6)	-7.9	9.6	—	FL170	—	—	RNAV1
004	TF	SILVA	—	087 (078.8)	-7.9	7.3	—	FL170	—	—	RNAV1
005	TF	INUBO	—	150 (141.9)	-7.9	40.2	—	+FL250	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AGRIS	362514.7N / 1395633.1E	INUBO	354335.3N / 1404757.9E
AKAGI	362328.3N / 1394156.3E	LEWIS	361353.2N / 1400834.7E
BRUCE	361200.4N / 1395655.9E	ROVER	355918.3N / 1395059.3E
CLARK	360702.0N / 1394800.5E	SILVA	361518.0N / 1401726.0E

STANDARD DEPARTURE CHART-INSTRUMENT

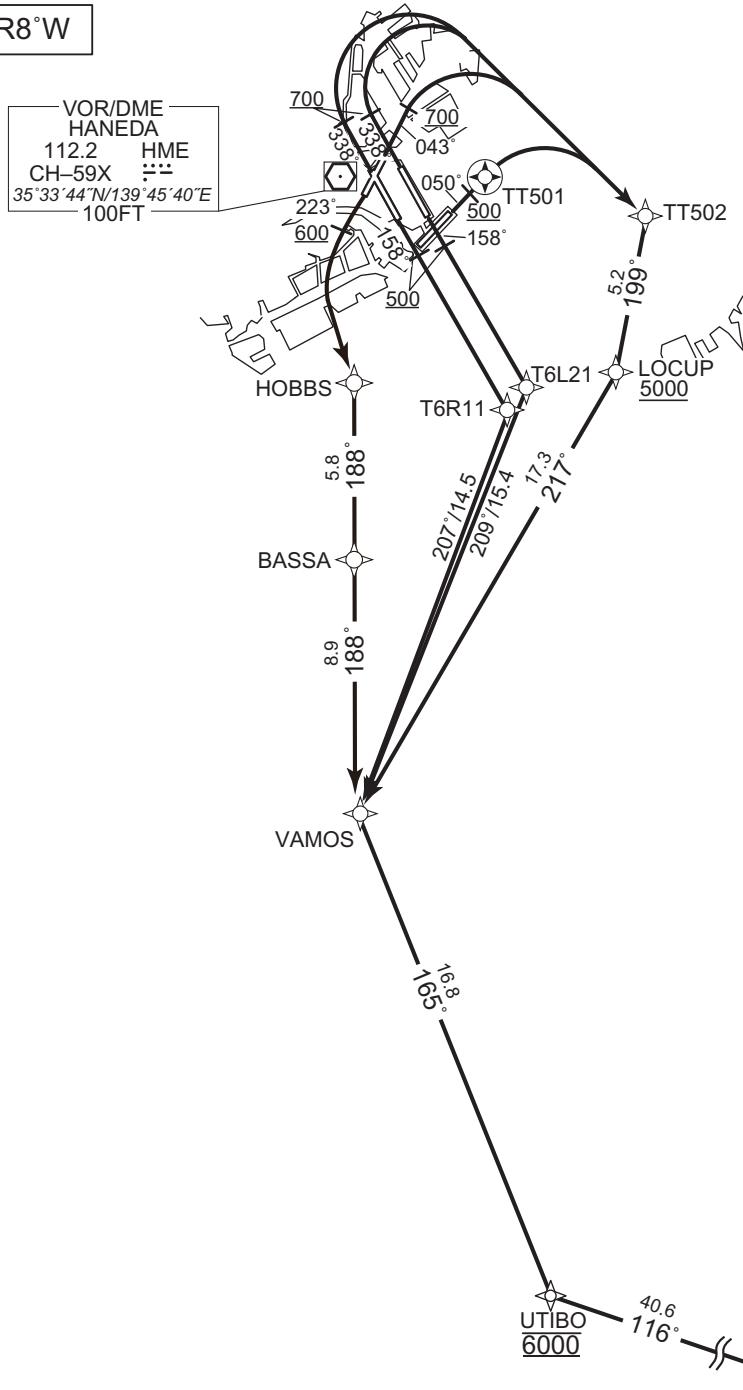
RJTT/TOKYO INTL

RNAV SID

RUTAS FOUR DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.	Critical DME	RNAV1
DME GAP	RWY16R: DER - 1.2NM FM DER RWY16L: DER - 1.0NM FM DER RWY34R: DER - 1.0NM FM DER RWY34L: DER - 0.5NM FM DER RWY04: DER - 1.7NM FM DER RWY22: DER - 1.4NM FM DER	RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 RWY16L : HME 1.0NM FM DER - 2.4NM to T6L21 RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 RWY05 : HME DER - 2.7NM to TT502
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W

CHANGE : PROC renamed. PROC course. DME GAP.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

**RUTAS FOUR DEPARTURE**

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R11, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L21, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY04: Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY05: Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to VAMOS, to UTIBO at 6000FT, to RUTAS.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to VAMOS, to UTIBO at 6000FT, to RUTAS.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS FOUR DEPARTURE

RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	207 (199.5)	-7.9	14.5	—	—	—	—	RNAV1
004	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
005	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	209 (200.7)	-7.9	15.4	—	—	—	—	RNAV1
004	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
005	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.9	17.3	—	—	—	—	RNAV1
005	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
006	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

RWY04

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	—	—	043 (034.9)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.9	17.3	—	—	—	—	RNAV1
005	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
006	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

CHANGE : PROC renamed.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY05

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	—	—	050 (042.4)	-7.9	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.9	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
005	TF	VAMOS	—	217 (209.5)	-7.9	17.3	—	—	—	—	RNAV1
006	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
007	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

## RWY22

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	—	—	223 (214.9)	-7.9	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.9	—	L	—	—	—	RNAV1
003	TF	BASSA	—	188 (179.9)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	VAMOS	—	188 (179.9)	-7.9	8.9	—	—	—	—	RNAV1
005	TF	UTIBO	—	165 (157.0)	-7.9	16.8	—	6000	—	—	RNAV1
006	TF	RUTAS	—	116 (108.4)	-7.9	40.6	—	—	—	—	RNAV1

CHANGE : RWY22 established. BASSA, HOBBS added.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	352108.8N / 1394542.2E	T6R11	352552.5N / 1395137.2E
HOBBS	352653.9N / 1394541.3E	TT501	353328.7N / 1395029.9E
LOCUP	352718.8N / 1395608.5E	TT502	353224.4N / 1395720.7E
RUTAS	344349.3N / 1404034.2E	UTIBO	345647.0N / 1395343.9E
T6L21	352639.1N / 1395222.0E	VAMOS	351215.5N / 1394543.6E

## STANDARD DEPARTURE CHART-INSTRUMENT

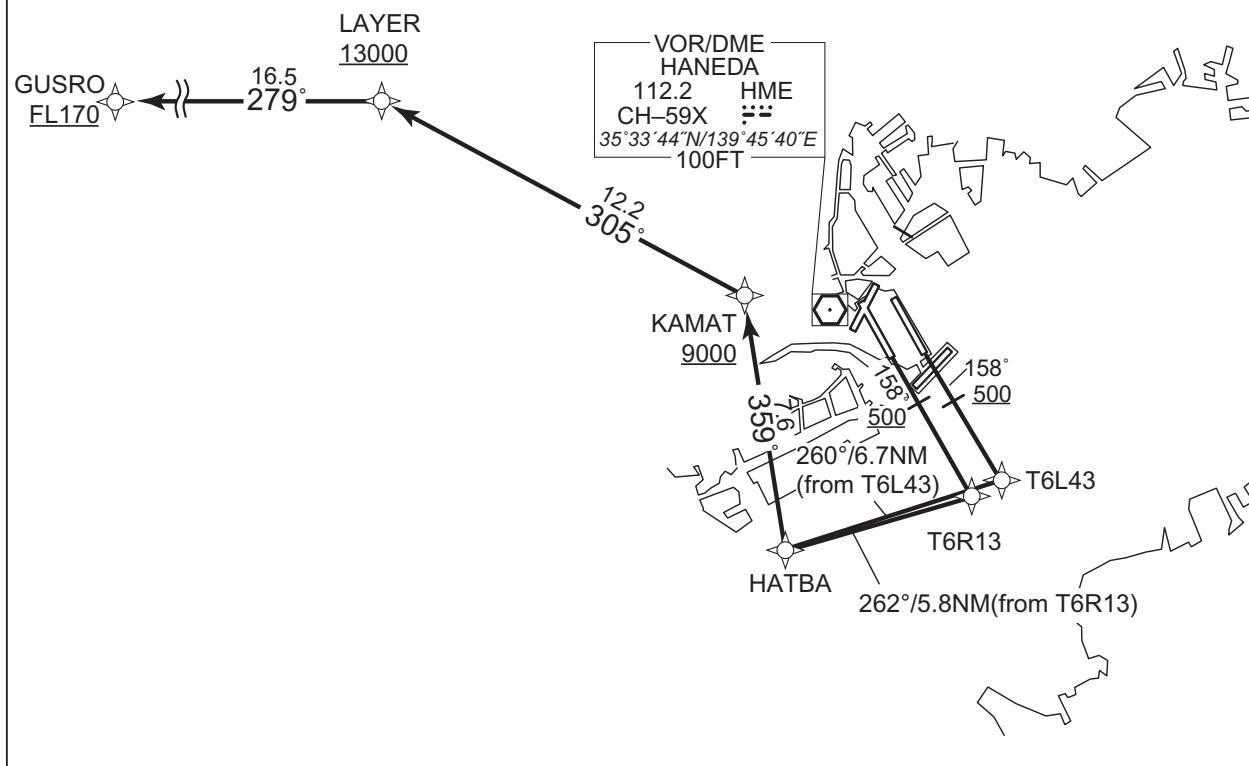
RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required.		
DME GAP	RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER 3.8NM to KAMAT - 1.8NM to KAMAT RWY34L : DER - 0.5NM FM DER 3.8NM to KAMAT - 1.8NM to KAMAT RWY04 : DER - 1.7NM FM DER 3.8NM to KAMAT - 1.8NM to KAMAT RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT RWY22 : DER - 1.4NM FM DER	Critical DME RWY16R : HME 1.2NM FM DER – HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY16L : HME 1.0NM FM DER - HATBA HYD 2.8NM to HATBA - 1.6NM to HATBA PQD HATBA - 1.6NM to KAMAT RWY34R : HME 1.0NM FM DER - 2.5NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT RWY34L : HME 0.5NM FM DER - 2.5NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT RWY04 : HME 1.7NM FM DER - 2.5NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT RWY05 : HME DER - 2.7NM to TT502 TT503 - 3.8NM to KAMAT 1.8NM to KAMAT - KAMAT HYD 1.2NM to TT503 - TT503 4.8NM to KAMAT - 3.8NM to KAMAT
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W

GUSRO ONE DEPARTURE RWY16R/16L

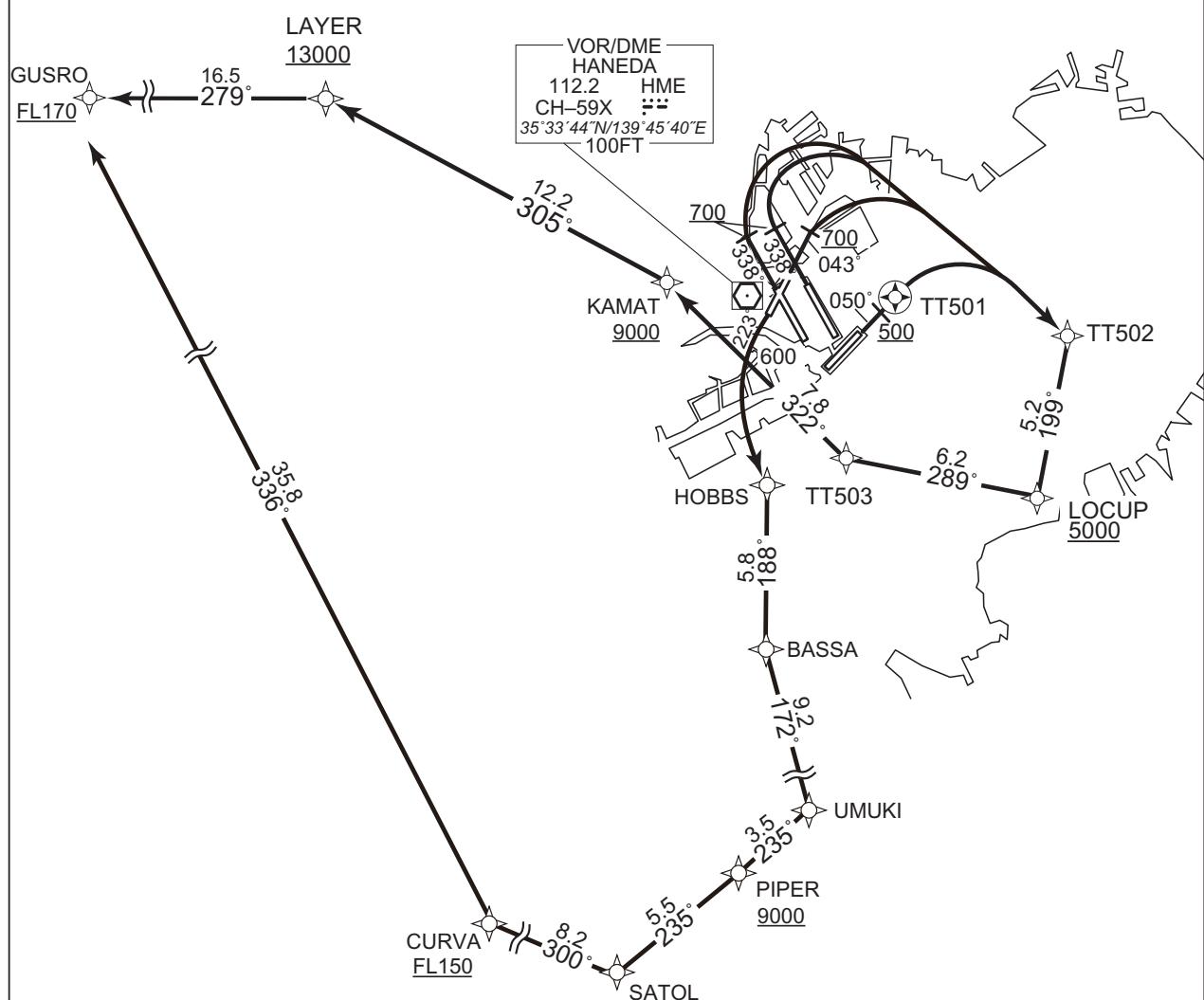


## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

GUSRO ONE DEPARTURE      RWY 34L/34R/04/05/22

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE

RWY16R : Climb on HDG 158° at or above 500FT, direct to T6R13, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY16L : Climb on HDG 158° at or above 500FT, direct to T6L43, to HATBA, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY34L/34R : Climb on HDG 338° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY04 : Climb on HDG 043° at or above 700FT, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY05 : Climb on HDG 050° at or above 500FT, direct to TT501, turn right direct to TT502, to LOCUP at or above 5000FT, to TT503, to KAMAT at or above 9000FT, to LAYER at or above 13000FT, to GUSRO at or above FL170.

RWY22 : Climb on HDG 223° at or above 600FT, turn left direct to HOBBS, to BASSA, to UMUKI, to PIPER at or above 9000FT, to SATOL, to CURVA at or above FL150, to GUSRO at or above FL170.

Note RWY34L/34R/04 : 5.0% climb gradient required up to 700FT.

RWY05 : 5.0% climb gradient required up to 500FT.

RWY22 : 5.0% climb gradient required up to 600FT.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## GUSRO ONE DEPARTURE

## RWY16R

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	HATBA	—	262 (253.8)	-7.9	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.9	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
006	TF	GUSRO	—	279 (271.2)	-7.9	16.5	—	+FL170	—	—	RNAV1

## RWY16L

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	—	—	158 (150.0)	-7.9	—	—	+500	—	—	RNAV1
002	DF	T6L43	—	—	-7.9	—	—	—	—	—	RNAV1
003	TF	HATBA	—	260 (251.9)	-7.9	6.7	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.9	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
006	TF	GUSRO	—	279 (271.2)	-7.9	16.5	—	+FL170	—	—	RNAV1

## RWY34L/RWY34R

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	—	—	338 (330.0)	-7.9	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.9	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.9	5.2	—	+5000	—	—	RNAV1
004	TF	TT503	—	289 (280.8)	-7.9	6.2	—	—	—	—	RNAV1
005	TF	KAMAT	—	322 (314.2)	-7.9	7.8	—	+9000	—	—	RNAV1
006	TF	LAYER	—	305 (297.1)	-7.9	12.2	—	+13000	—	—	RNAV1
007	TF	GUSRO	—	279 (271.2)	-7.9	16.5	—	+FL170	—	—	RNAV1

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RWY04

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	–	–	043 (034.9)	-7.9	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.9	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.9	5.2	–	+5000	–	–	RNAV1
004	TF	TT503	–	289 (280.8)	-7.9	6.2	–	–	–	–	RNAV1
005	TF	KAMAT	–	322 (314.2)	-7.9	7.8	–	+9000	–	–	RNAV1
006	TF	LAYER	–	305 (297.1)	-7.9	12.2	–	+13000	–	–	RNAV1
007	TF	GUSRO	–	279 (271.2)	-7.9	16.5	–	+FL170	–	–	RNAV1

## RWY05

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	–	–	050 (042.4)	-7.9	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.9	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.9	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.9	5.2	–	+5000	–	–	RNAV1
005	TF	TT503	–	289 (280.8)	-7.9	6.2	–	–	–	–	RNAV1
006	TF	KAMAT	–	322 (314.2)	-7.9	7.8	–	+9000	–	–	RNAV1
007	TF	LAYER	–	305 (297.1)	-7.9	12.2	–	+13000	–	–	RNAV1
008	TF	GUSRO	–	279 (271.2)	-7.9	16.5	–	+FL170	–	–	RNAV1

## RWY22

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	–	–	223 (214.9)	-7.9	–	–	+600	–	–	RNAV1
002	DF	HOBBS	–	–	-7.9	–	L	–	–	–	RNAV1
003	TF	BASSA	–	188 (179.9)	-7.9	5.8	–	–	–	–	RNAV1
004	TF	UMUKI	–	172 (163.9)	-7.9	9.2	–	–	–	–	RNAV1
005	TF	PIPER	–	235 (227.4)	-7.9	3.5	–	+9000	–	–	RNAV1
006	TF	SATOL	–	235 (227.4)	-7.9	5.5	–	–	–	–	RNAV1
007	TF	CURVA	–	300 (292.2)	-7.9	8.2	–	+FL150	–	–	RNAV1
008	TF	GUSRO	–	336 (328.3)	-7.9	35.8	–	+FL170	–	–	RNAV1

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
BASSA	352108.8N / 1394542.2E	PIPER	350958.3N / 1394542.0E
CURVA	350919.0N / 1393124.4E	SATOL	350613.3N / 1394043.4E
GUSRO	353944.8N / 1390813.1E	T6L43	352828.4N / 1395104.6E
HATBA	352623.4N / 1394315.9E	T6R13	352800.8N / 1395006.4E
HOBBS	352653.9N / 1394541.3E	TT501	353328.7N / 1395029.9E
KAMAT	353353.6N / 1394148.9E	TT502	353224.4N / 1395720.7E
LAYER	353925.4N / 1392829.5E	TT503	352828.0N / 1394840.4E
LOCUP	352718.8N / 1395608.5E	UMUKI	351219.1N / 1394849.2E

**STANDARD ARRIVAL CHART-INSTRUMENT**

RJTT / TOKYO INTL

STAR

**SINGO ARRIVAL**

From over STONE, via HME R036 to HME 22.2DME, via HME 22.2DME clockwise ARC to SINGO.

Cross STONE at 11000FT, cross HME R036/28.0DME at or above 8000FT.

**DOYLE ARRIVAL**

From over STONE, via HME R036 to HME 22.2DME, via HME 22.2DME clockwise ARC to intercept and proceed via ITL LOC course to DOYLE.

Cross STONE at 11000FT, cross HME R036/28.0DME at or above 8000FT.

**ADDUM ARRIVAL**

From over ADDUM, via HME R157 to HME 25.0DME, turn right, via IHA LOC course to ARLON.

Cross ADDUM at 10000FT.

**BONUS ARRIVAL**

From over ADDUM, via HME R157 to HME 22.2DME, via HME 22.2DME counterclockwise ARC to intercept and proceed via IKL LOC course to BONUS.

Cross ADDUM at 10000FT.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

STAR

VAR 8°W

STONE  
D49.3 HME  
11000  
250KIAS

MHA 11000 / MAX 250KIAS  
D57.0 HME

036°  
216°  
R036°  
216°  
STONE  
D49.3 HME  
HANEDA  
VOR/DME  
(HME)

D28.0 HME  
8000

D22.2 HME ARC

SINGO ARRIVAL

DOYLE ARRIVAL

VOR/DME  
HANEDA  
112.2 HME  
CH-59X  
35°33'44"N 139°45'40"E  
100FT

HME R036°  
LOC Course to RWY22(LDA)  
D14.7 IKL  
BONUS  
R089  
277°  
R096  
277°  
LOC Course to RWY23(LDA)

DOYLE  
D16.5 ITL

BONUS ARRIVAL

ARLON  
D19.6 IHA  
D25.0 HME  
R147°  
33°  
SINGO  
D20.3 ITC

ADDUM ARRIVAL

HANEDA  
VOR/DME  
(HME)

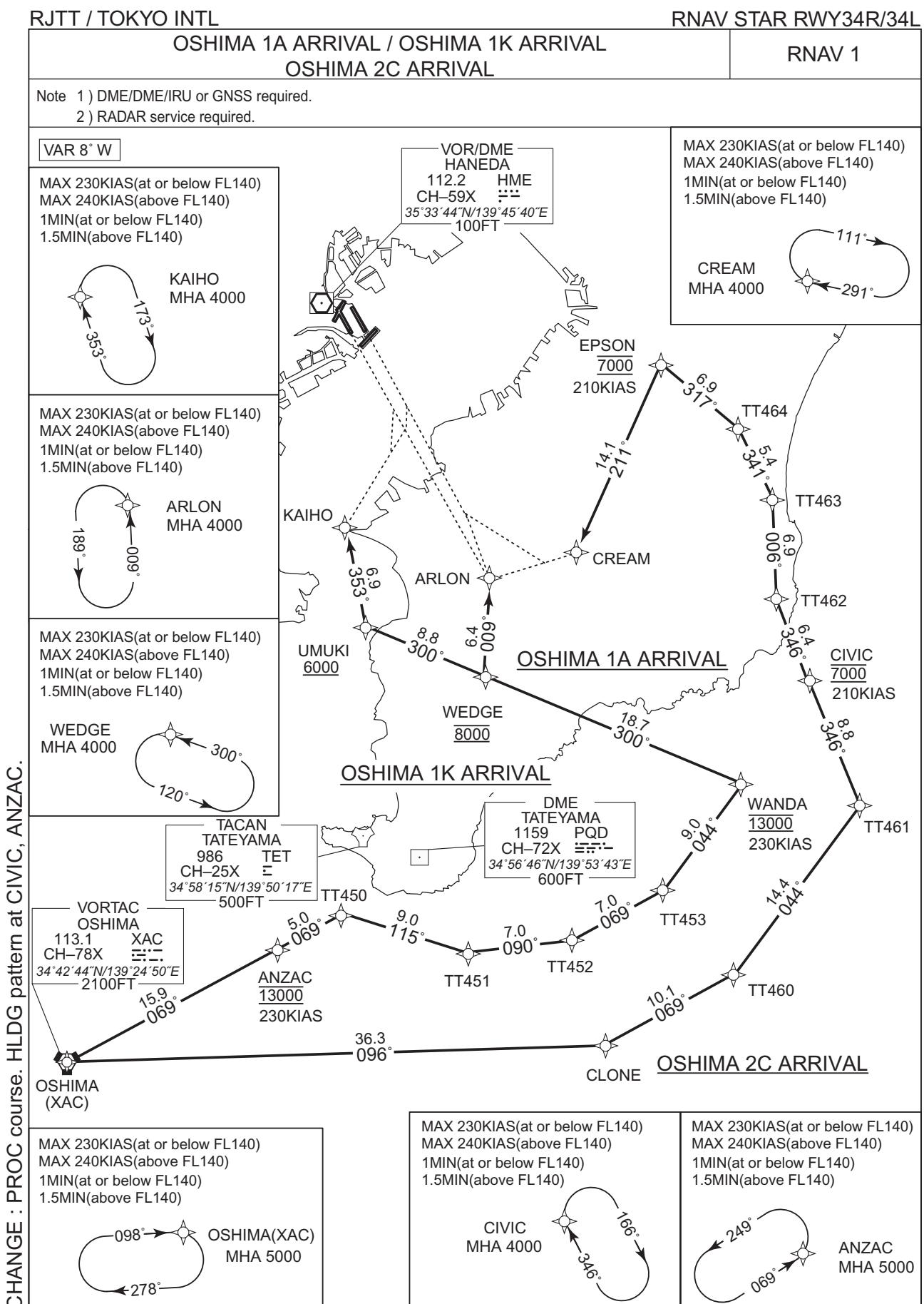
ADDUM  
D46.6 HME  
D55.0 HME

MHA 5000 / MAX 250KIAS

ADDUM  
D46.6 HME  
10000  
230KIAS

CHANGE : VAR.

STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL

From XAC, to ANZAC at 13000FT, to TT450, to TT451, to TT452, to TT453, to WANDA at 13000FT, to WEDGE at 8000FT, to ARLON.

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	XAC	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	ANZAC	—	069 (060.8)	-7.9	15.9	—	13000	230	—	RNAV1
003	TF	TT450	—	069 (061.0)	-7.9	5.0	—	—	—	—	RNAV1
004	TF	TT451	—	115 (106.9)	-7.9	9.0	—	—	—	—	RNAV1
005	TF	TT452	—	090 (082.2)	-7.9	7.0	—	—	—	—	RNAV1
006	TF	TT453	—	069 (060.7)	-7.9	7.0	—	—	—	—	RNAV1
007	TF	WANDA	—	044 (036.0)	-7.9	9.0	—	13000	230	—	RNAV1
008	TF	WEDGE	—	300 (292.4)	-7.9	18.7	—	8000	—	—	RNAV1
009	TF	ARLON	—	009 (001.6)	-7.9	6.4	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1K ARRIVAL

From XAC, to ANZAC at 13000FT, to TT450, to TT451, to TT452, to TT453, to WANDA at 13000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	069 (060.8)	-7.9	15.9	-	13000	230	-	RNAV1
003	TF	TT450	-	069 (061.0)	-7.9	5.0	-	-	-	-	RNAV1
004	TF	TT451	-	115 (106.9)	-7.9	9.0	-	-	-	-	RNAV1
005	TF	TT452	-	090 (082.2)	-7.9	7.0	-	-	-	-	RNAV1
006	TF	TT453	-	069 (060.7)	-7.9	7.0	-	-	-	-	RNAV1
007	TF	WANDA	-	044 (036.0)	-7.9	9.0	-	13000	230	-	RNAV1
008	TF	WEDGE	-	300 (292.4)	-7.9	18.7	-	8000	-	-	RNAV1
009	TF	UMUKI	-	300 (292.2)	-7.9	8.8	-	+6000	-	-	RNAV1
010	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2C ARRIVAL

From XAC, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

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	XAC	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	CLONE	—	096 (087.8)	-7.9	36.3	—	—	—	—	RNAV1
003	TF	TT460	—	069 (060.7)	-7.9	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.9	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	346 (337.7)	-7.9	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	346 (337.7)	-7.9	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.9	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.9	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.9	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.9	14.1	—	—	—	—	RNAV1

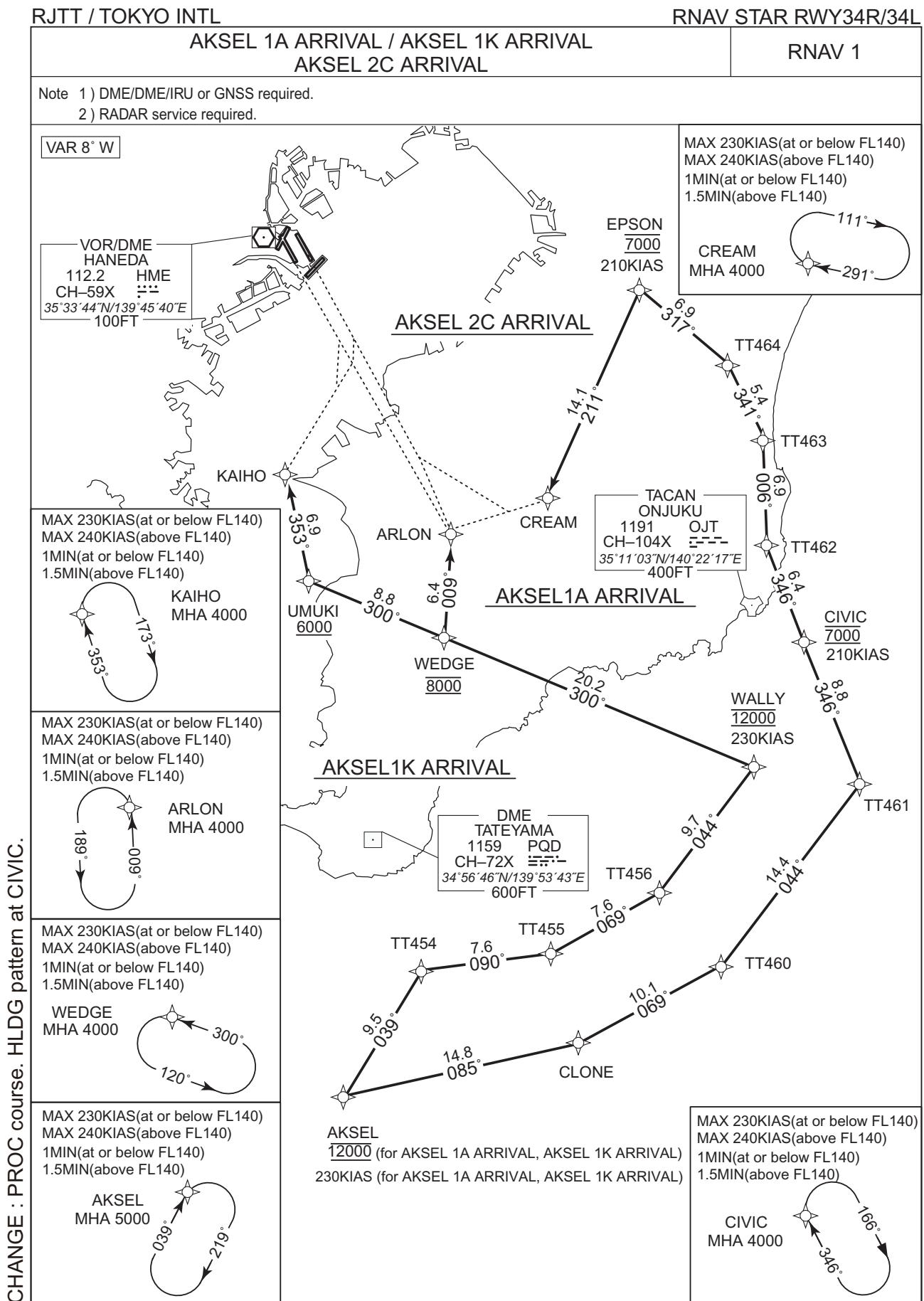
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ANZAC	345028.8N / 1394146.7E	TT453	345438.5N / 1401325.9E
ARLON	351525.3N / 1395859.8E	TT460	344852.6N / 1401936.8E
CIVIC	350840.6N / 1402552.1E	TT461	350030.2N / 1402957.9E
CLONE	344357.8N / 1400856.0E	TT462	351433.3N / 1402254.8E
CREAM	351743.4N / 1400612.4E	TT463	352125.4N / 1402237.1E
EPSON	353036.2N / 1401305.9E	TT464	352617.6N / 1401938.6E
KAIHO	351857.8N / 1394642.4E	UMUKI	351219.1N / 1394849.2E
TT450	345254.0N / 1394706.0E	WANDA	350155.3N / 1401954.1E
TT451	345016.8N / 1395734.3E	WEDGE	350900.4N / 1395846.5E
TT452	345113.2N / 1400600.1E	XAC	344244.1N / 1392450.5E

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1A ARRIVAL

From AKSEL at 12000FT, to TT454, to TT455, to TT456, to WALLY at 12000FT, to WEDGE at 8000FT, to ARLON.

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	AKSEL	-	-	-7.9	-	-	12000	230	-	RNAV1
002	TF	TT454	-	039 (031.2)	-7.9	9.5	-	-	-	-	RNAV1
003	TF	TT455	-	090 (082.2)	-7.9	7.6	-	-	-	-	RNAV1
004	TF	TT456	-	069 (060.7)	-7.9	7.6	-	-	-	-	RNAV1
005	TF	WALLY	-	044 (036.0)	-7.9	9.7	-	12000	230	-	RNAV1
006	TF	WEDGE	-	300 (292.4)	-7.9	20.2	-	8000	-	-	RNAV1
007	TF	ARLON	-	009 (001.6)	-7.9	6.4	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1K ARRIVAL

From AKSEL at 12000FT, to TT454, to TT455, to TT456, to WALLY at 12000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

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	AKSEL	—	—	-7.9	—	—	12000	230	—	RNAV1
002	TF	TT454	—	039 (031.2)	-7.9	9.5	—	—	—	—	RNAV1
003	TF	TT455	—	090 (082.2)	-7.9	7.6	—	—	—	—	RNAV1
004	TF	TT456	—	069 (060.7)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	WALLY	—	044 (036.0)	-7.9	9.7	—	12000	230	—	RNAV1
006	TF	WEDGE	—	300 (292.4)	-7.9	20.2	—	8000	—	—	RNAV1
007	TF	UMUKI	—	300 (292.2)	-7.9	8.8	—	+6000	—	—	RNAV1
008	TF	KAIHO	—	353 (345.5)	-7.9	6.9	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2C ARRIVAL

From AKSEL, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

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	AKSEL	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	CLONE	-	085 (077.0)	-7.9	14.8	-	-	-	-	RNAV1
003	TF	TT460	-	069 (060.7)	-7.9	10.1	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.9	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	346 (337.7)	-7.9	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	346 (337.7)	-7.9	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.9	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.9	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.9	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.9	14.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	TT456	345329.3N / 1401440.2E
ARLON	351525.3N / 1395859.8E	TT460	344852.6N / 1401936.8E
CIVIC	350840.6N / 1402552.1E	TT461	350030.2N / 1402957.9E
CLONE	344357.8N / 1400856.0E	TT462	351433.3N / 1402254.8E
CREAM	351743.4N / 1400612.4E	TT463	352125.4N / 1402237.1E
EPSON	353036.2N / 1401305.9E	TT464	352617.6N / 1401938.6E
KAIHO	351857.8N / 1394642.4E	UMUKI	351219.1N / 1394849.2E
TT454	344844.8N / 1395725.3E	WALLY	350120.1N / 1402138.6E
TT455	344946.2N / 1400635.3E	WEDGE	350900.4N / 1395846.5E

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

## **STANDARD ARRIVAL CHART-INSTRUMENT**

RJTT / TOKYO INTL

## RNAV STAR RWY34R/34L

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

2 ) RADAR service required.

VAR 8° W

VOR/DME  
HANEDA  
112.2 HME  
CH-59X  
 $35^{\circ}33'44''N/139^{\circ}45'40''E$   
100FT

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

CREAM  
MHA 4000

ARROSA 2G ARRIVAL

111°  
291°

AROSA ZC ARRIVAL

EPSON  
7000

210KIAS

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

AROSA 1K ARRIVAL

**AROSA 1A ARRIVAL**

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL 140)

6000  
3000  
300° 090° WEDGE  
CIVIC 7000 210KIAS

KAIHO  
 MHA 4000  
 $353^{\circ}$   
 $173^{\circ}$   
 $8000$   
 $346^{\circ}$

TACAN  
TATEYAMA  
986 TET

DME  
TATEYAMA  
1159 PQD

TT461

WALTZ

Flight plan diagram:

- Route: TT460 → TT458 → TT457 → TT459 → TT460
- Leg 1: TT460 to TT458, distance 8.2, bearing 270°
- Leg 2: TT458 to TT457, distance 7.4, bearing 286°
- Leg 3: TT457 to TT459, distance 3.1, bearing 301°
- Leg 4: TT459 to TT460, distance 10.4, bearing 295°
- Wind: 11000 ft, 230 KIAS

MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140)	MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140)	MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140)
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The diagram illustrates two flight paths originating from a point labeled "MHA 4000".

- TMIN (at or below FL140):** Represented by a curved arrow pointing upwards and to the right, labeled "300°".
- 1.5MIN (above FL140):** Represented by a curved arrow pointing upwards and to the left, labeled "134°".
- AVEEY:** Represented by a straight horizontal arrow pointing to the right, labeled "165°".
- CIVIC:** A label placed near the AVEEY path.

CHANGE : PROC course. HLDG pattern at CIVIC.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1A ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT457, to TT458, to TT459, to WALTZ at 11000FT, to WEDGE at 8000FT, to ARLON.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	TT457	-	325 (317.5)	-7.9	7.2	-	-	-	-	RNAV1
004	TF	TT458	-	286 (278.5)	-7.9	7.4	-	-	-	-	RNAV1
005	TF	TT459	-	270 (262.3)	-7.9	8.2	-	-	-	-	RNAV1
006	TF	WALTZ	-	295 (287.0)	-7.9	10.4	-	11000	230	-	RNAV1
007	TF	WEDGE	-	039 (030.6)	-7.9	21.8	-	8000	-	-	RNAV1
008	TF	ARLON	-	009 (001.6)	-7.9	6.4	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1K ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT457, to TT458, to TT459, to WALTZ at 11000FT, to WEDGE at 8000FT, to UMUKI at or above 6000FT, to KAIHO.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	TT457	-	325 (317.5)	-7.9	7.2	-	-	-	-	RNAV1
004	TF	TT458	-	286 (278.5)	-7.9	7.4	-	-	-	-	RNAV1
005	TF	TT459	-	270 (262.3)	-7.9	8.2	-	-	-	-	RNAV1
006	TF	WALTZ	-	295 (287.0)	-7.9	10.4	-	11000	230	-	RNAV1
007	TF	WEDGE	-	039 (030.6)	-7.9	21.8	-	8000	-	-	RNAV1
008	TF	UMUKI	-	300 (292.2)	-7.9	8.8	-	+6000	-	-	RNAV1
009	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2C ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	TT460	-	352 (344.5)	-7.9	7.2	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.9	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	346 (337.7)	-7.9	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	346 (337.7)	-7.9	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.9	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.9	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.9	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.9	14.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARLON	351525.3N / 1395859.8E	TT459	344712.8N / 1395716.3E
AROSA	344201.7N / 1404157.3E	TT460	344852.6N / 1401936.8E
AVEEY	344155.9N / 1402158.0E	TT461	350030.2N / 1402957.9E
CIVIC	350840.6N / 1402552.1E	TT462	351433.3N / 1402254.8E
CREAM	351743.4N / 1400612.4E	TT463	352125.4N / 1402237.1E
EPSON	353036.2N / 1401305.9E	TT464	352617.6N / 1401938.6E
KAIHO	351857.8N / 1394642.4E	UMUKI	351219.1N / 1394849.2E
TT457	344714.3N / 1401602.7E	WALTZ	345014.4N / 1394510.7E
TT458	344819.1N / 1400710.5E	WEDGE	350900.4N / 1395846.5E

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL / GODIN 2K ARRIVAL  
GODIN 1C ARRIVAL

RNAV 1

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

VAR 8° W

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

KAIHO  
MHA 4000

NOT TO SCALE

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

ARLON  
MHA 4000

NOT TO SCALE

VOR/DME  
HANEDA  
112.2 HME  
CH-59X :::::  
35°33'44"N/139°45'40"E  
100FT

DME  
MORIYA  
1174 SND  
CH-87X :::::  
35°56'06"N/139°58'52"E  
100FT

GODIN

CHIPS  
13000

11.7°  
197°

14.3°  
189°

COPSE

COACH  
8000  
210KIAS

8.0°  
188°

TT465

6.4°  
150°

TT466

1.5°  
10°

TT467

9.8°  
99°

EDDIE  
8000  
210KIAS

TACAN  
SHIMOFUSA  
980 SHT  
CH-19X :::::  
35°48'07"N/140°00'36"E  
100FT

GODIN 2A ARRIVAL

DME

TATEYAMA

1159 PQD

CH-72X :::::  
34°56'46"N/139°53'43"E  
600FT

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO SCALE  
017°  
197°  
GODIN  
MHA 8000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO SCALE  
017°  
197°  
COLOR  
MHA 8000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO SCALE  
900°  
98°  
COACH  
MHA 4000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOT TO SCALE  
111°  
291°  
CREAM  
MHA 4000

TACAN  
ONJUKU  
1191 OJT  
CH-104X :::::  
35°11'03"N/140°22'17"E  
400FT

CHANGE : PROC course. HLDG pattern at COACH.

GODIN 2K ARRIVAL

TACAN  
TATEYAMA  
986 TET  
CH-25X :::::  
34°58'15"N/139°50'17"E  
500FT

DME  
TATEYAMA  
1159 PQD  
CH-72X :::::  
34°56'46"N/139°53'43"E  
600FT

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to ARLON.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.9	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.9	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.9	6.9	-	-	-	-	RNAV1
012	TF	ARLON	-	308 (300.2)	-7.9	6.2	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at COACH.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2K ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to UMUKI at or above 6000FT, to KAIHO.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.9	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.9	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.9	6.9	-	-	-	-	RNAV1
012	TF	UMUKI	-	278 (270.2)	-7.9	13.7	-	+6000	-	-	RNAV1
013	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at COACH.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1C ARRIVAL

From GODIN ,to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.9	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.9	13.0	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ANDEN	351217.9N / 1400534.7E	GODIN	362425.3N / 1401655.9E
ARLON	351525.3N / 1395859.8E	KAIHO	351857.8N / 1394642.4E
CHIPS	361247.7N / 1401436.9E	TT465	352939.2N / 1401235.4E
COACH	353736.0N / 1401231.5E	TT466	352539.0N / 1401840.1E
COLOR	360116.3N / 1401219.8E	TT467	352110.2N / 1402124.4E
COPSE	354658.8N / 1401205.4E	TT468	351216.4N / 1401402.6E
CREAM	351743.4N / 1400612.4E	UMUKI	351219.1N / 1394849.2E
EDDIE	351447.4N / 1402140.9E		

CHANGE : PROC course. VAR. HLDG pattern at COACH

## **STANDARD ARRIVAL CHART-INSTRUMENT**

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

RNAV 1

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

2 ) RADAR service required.

VAR 8° W

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

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

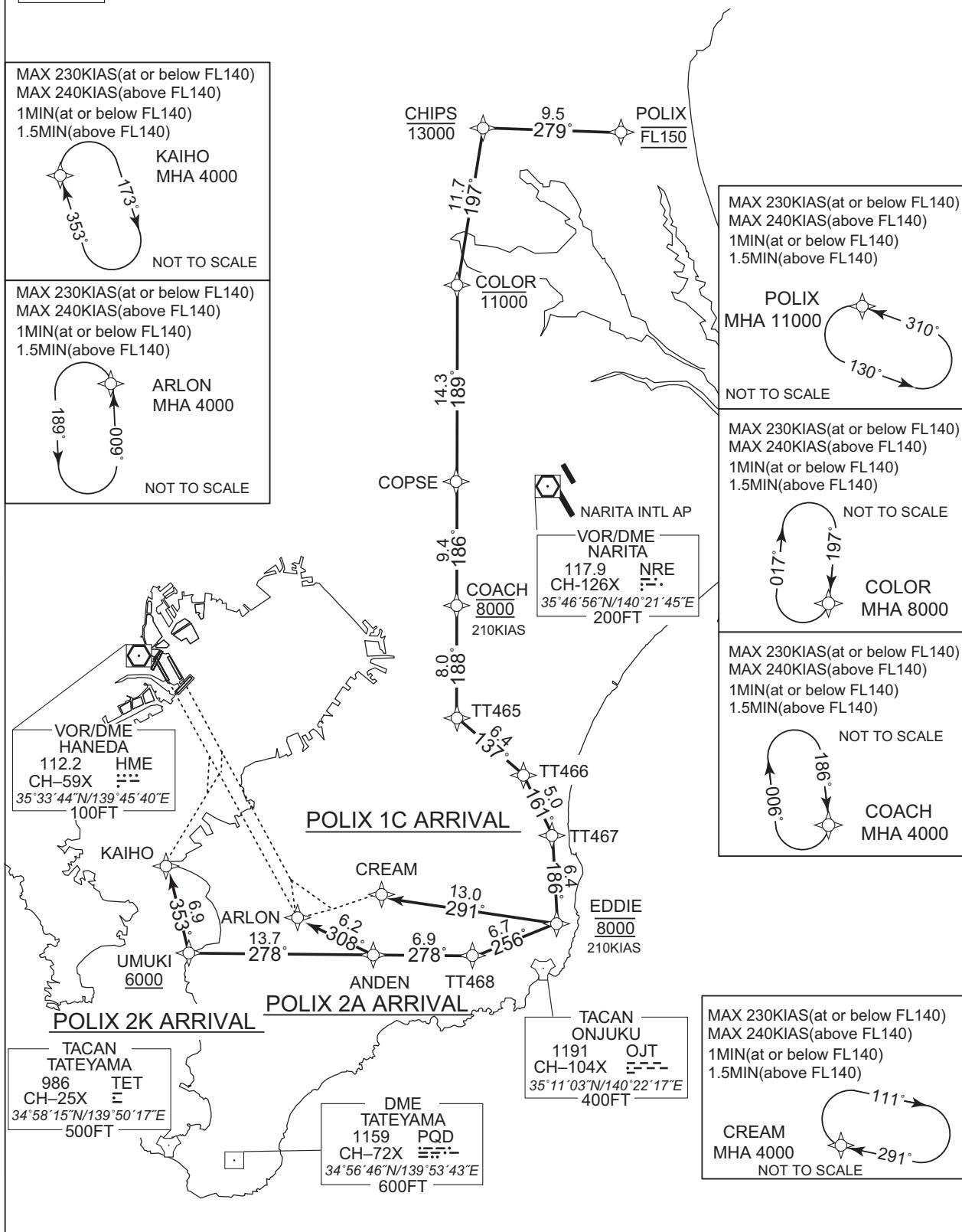
KAIHO

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

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

APLON

CHANGE : PROC course. HLDG pattern at COACH.



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to ARLON.

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	POLIX	-	-	-7.9	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.9	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.9	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.9	6.9	-	-	-	-	RNAV1
012	TF	ARLON	-	308 (300.2)	-7.9	6.2	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course, VAR, HLDG pattern at COACH

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2K ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to TT468, to ANDEN, to UMUKI at or above 6000FT, to KAIHO.

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	POLIX	-	-	-7.9	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.9	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.9	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.9	6.9	-	-	-	-	RNAV1
012	TF	UMUKI	-	278 (270.2)	-7.9	13.7	-	+6000	-	-	RNAV1
013	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at COACH.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1C ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM.

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	POLIX	-	-	-7.9	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.9	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.9	13.0	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ANDEN	351217.9N / 1400534.7E	KAIHO	351857.8N / 1394642.4E
ARLON	351525.3N / 1395859.8E	POLIX	361237.1N / 1402622.5E
CHIPS	361247.7N / 1401436.9E	TT465	352939.2N / 1401235.4E
COACH	353736.0N / 1401231.5E	TT466	352539.0N / 1401840.1E
COLOR	360116.3N / 1401219.8E	TT467	352110.2N / 1402124.4E
COPSE	354658.8N / 1401205.4E	TT468	351216.4N / 1401402.6E
CREAM	351743.4N / 1400612.4E	UMUKI	351219.1N / 1394849.2E
EDDIE	351447.4N / 1402140.9E		

CHANGE : PROC course. VAR. HLDG pattern at COACH.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

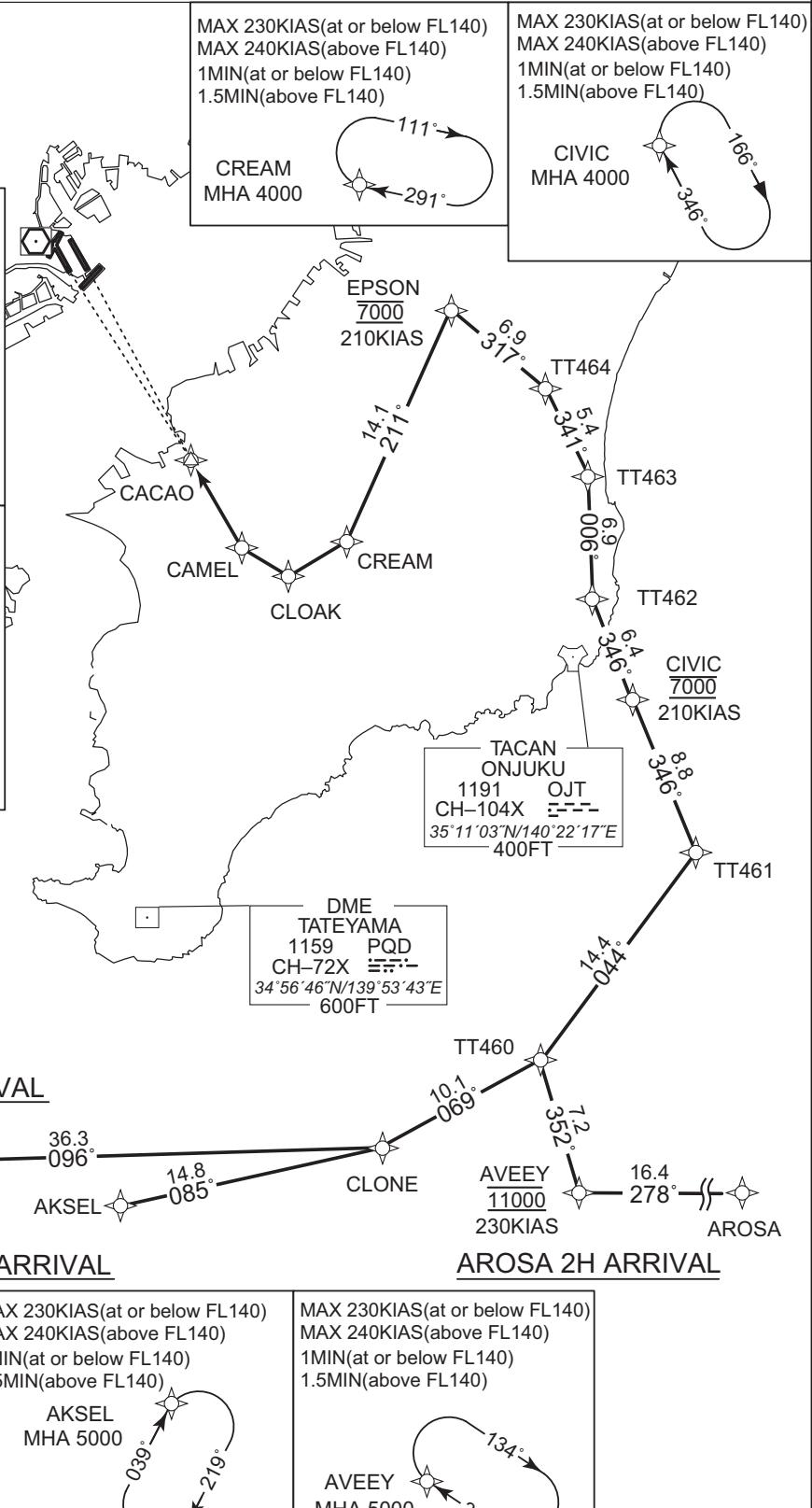
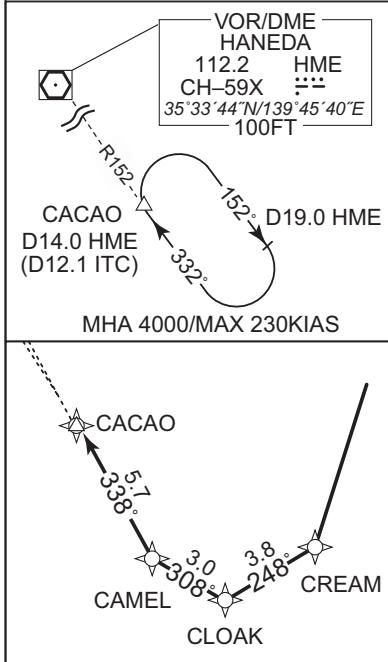
OSHIMA 2H ARRIVAL / AKSEL 2H ARRIVAL  
AROSA 2H ARRIVAL

RNAV 1

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

2 ) RADAR service required.

VAR 8° W



CHANGE : PROC course, HLDG pattern at CIVIC.

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

OSHIMA(XAC)  
MHA 5000  
098° → 278°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

AKSEL  
MHA 5000  
039° → 219°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

AVEEY  
MHA 5000  
134° → 314°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2H ARRIVAL

From XAC, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

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	XAC	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	CLONE	—	096 (087.8)	-7.9	36.3	—	—	—	—	RNAV1
003	TF	TT460	—	069 (060.7)	-7.9	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.9	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	346 (337.7)	-7.9	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	346 (337.7)	-7.9	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.9	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.9	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.9	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.9	14.1	—	—	—	—	RNAV1
011	TF	CLOAK	—	248 (240.0)	-7.9	3.8	—	—	—	—	RNAV1
012	TF	CAMEL	—	308 (300.1)	-7.9	3.0	—	—	—	—	RNAV1
013	TF	CACAO	—	338 (330.1)	-7.9	5.7	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course, VAR, HLDG pattern at CIVIC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2H ARRIVAL

From AKSEL, to CLONE, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

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	AKSEL	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	CLONE	-	085 (077.0)	-7.9	14.8	-	-	-	-	RNAV1
003	TF	TT460	-	069 (060.7)	-7.9	10.1	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.9	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	346 (337.7)	-7.9	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	346 (337.7)	-7.9	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.9	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.9	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.9	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.9	14.1	-	-	-	-	RNAV1
011	TF	CLOAK	-	248 (240.0)	-7.9	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.9	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.9	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2H ARRIVAL

From AROSA, to AVEEY at 11000FT, to TT460, to TT461, to CIVIC at 7000FT, to TT462, to TT463, to TT464, to EPSON at 7000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	TT460	-	352 (344.5)	-7.9	7.2	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.9	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	346 (337.7)	-7.9	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	346 (337.7)	-7.9	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.9	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.9	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.9	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.9	14.1	-	-	-	-	RNAV1
011	TF	CLOAK	-	248 (240.0)	-7.9	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.9	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.9	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at CIVIC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

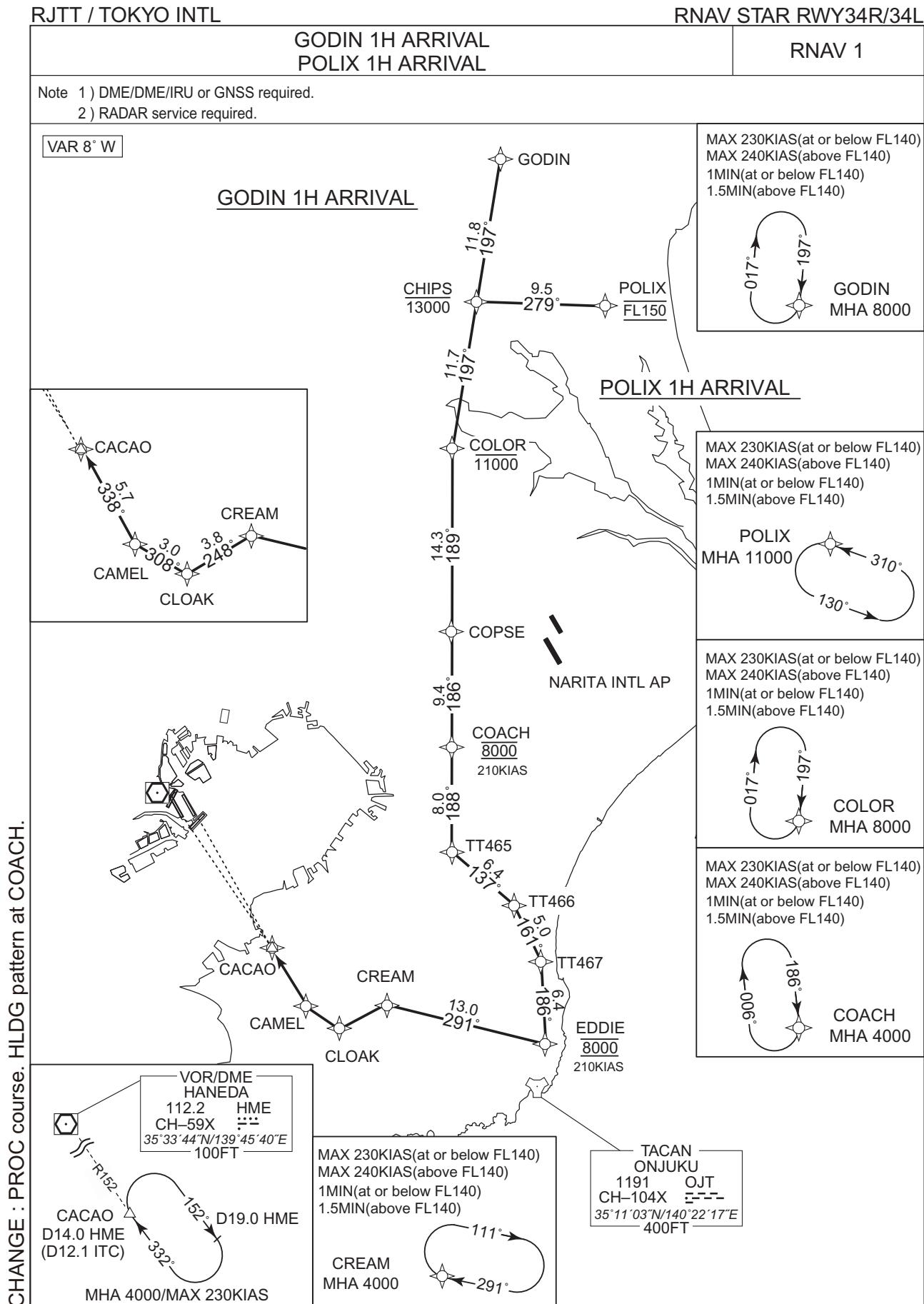
Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	CREAM	351743.4N / 1400612.4E
AROSA	344201.7N / 1404157.3E	EPSON	353036.2N / 1401305.9E
AVEEY	344155.9N / 1402158.0E	TT460	344852.6N / 1401936.8E
CACAO	352212.8N / 1395530.1E	TT461	350030.2N / 1402957.9E
CAMEL	351718.2N / 1395857.8E	TT462	351433.3N / 1402254.8E
CIVIC	350840.6N / 1402552.1E	TT463	352125.4N / 1402237.1E
CLOAK	351548.0N / 1400208.2E	TT464	352617.6N / 1401938.6E
CLONE	344357.8N / 1400856.0E	XAC	344244.1N / 1392450.5E

CHANGE : AVEEY renamed

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STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1H ARRIVAL

From GODIN, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.9	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.9	13.0	-	-	-	-	RNAV1
011	TF	CLOAK	-	248 (240.0)	-7.9	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.9	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.9	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at COACH.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1H ARRIVAL

From POLIX at FL150, to CHIPS at or below 13000FT, to COLOR at or below 11000FT, to COPSE, to COACH at 8000FT, to TT465, to TT466, to TT467, to EDDIE at 8000FT, to CREAM, to CLOAK, to CAMEL, to CACAO.

Note: When cleared HIGHWAY VISUAL RWY34R APPROACH, aircraft should fly via last routing cleared until CACAO.

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	POLIX	-	-	-7.9	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.9	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.9	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	189 (180.8)	-7.9	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	186 (177.8)	-7.9	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	188 (179.6)	-7.9	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	137 (128.9)	-7.9	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.9	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.9	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.9	13.0	-	-	-	-	RNAV1
011	TF	CLOAK	-	248 (240.0)	-7.9	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.9	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.9	5.7	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at COACH.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
CACAO	352212.8N / 1395530.1E	CREAM	351743.4N / 1400612.4E
CAMEL	351718.2N / 1395857.8E	EDDIE	351447.4N / 1402140.9E
CHIPS	361247.7N / 1401436.9E	GODIN	362425.3N / 1401655.9E
CLOAK	351548.0N / 1400208.2E	POLIX	361237.1N / 1402622.5E
COACH	353736.0N / 1401231.5E	TT465	352939.2N / 1401235.4E
COLOR	360116.3N / 1401219.8E	TT466	352539.0N / 1401840.1E
COPSE	354658.8N / 1401205.4E	TT467	352110.2N / 1402124.4E

## **STANDARD ARRIVAL CHART-INSTRUMENT**

RJTT / TOKYO INTL

## **RNAV STAR RWY22/23**

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

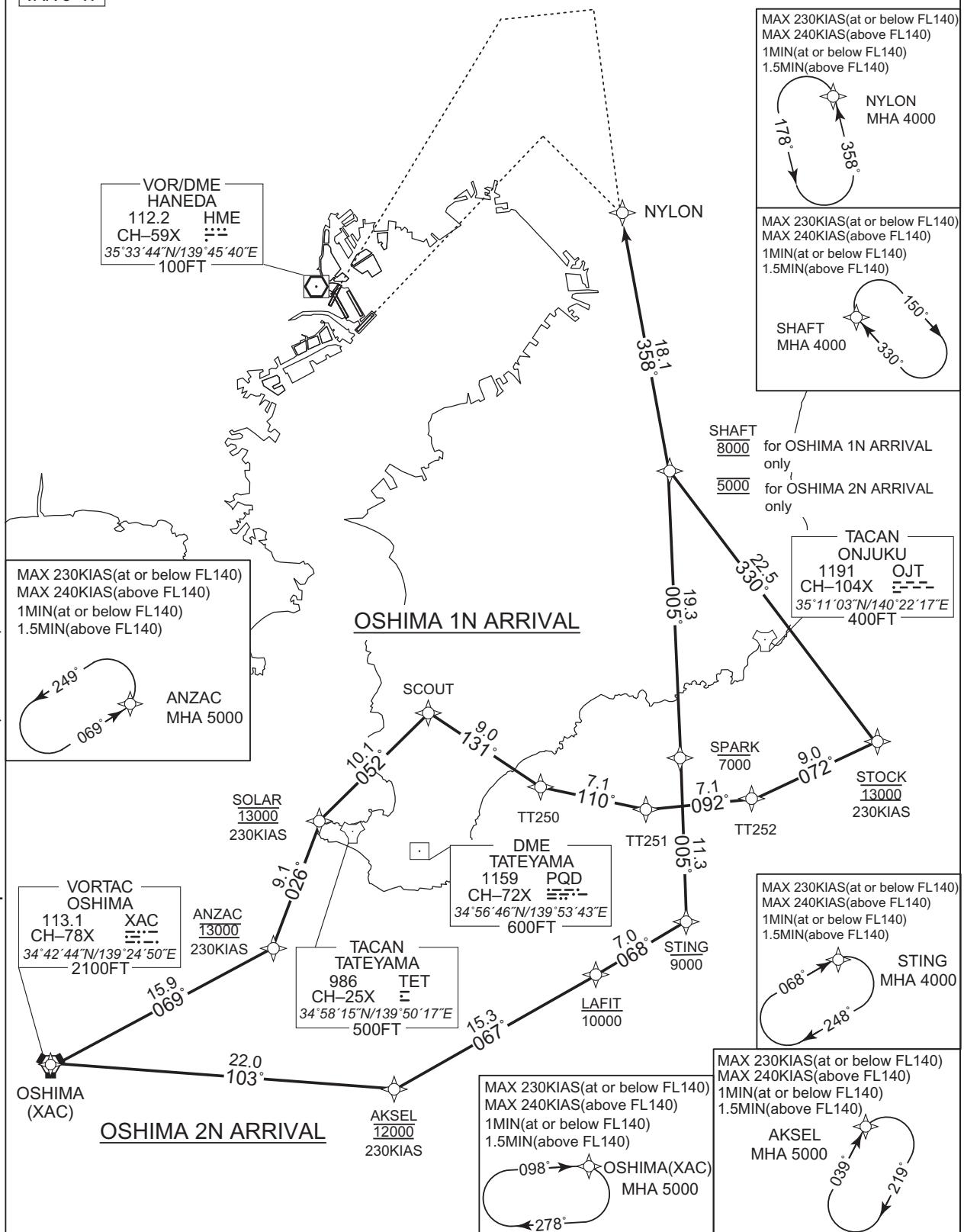
For more information about the study, please contact Dr. Michael J. Hwang at (310) 794-3000 or via email at [mhwang@ucla.edu](mailto:mhwang@ucla.edu).

Journal of Oral Rehabilitation 2009 36: 103–110 © 2009 Blackwell Publishing Ltd

R 8° W

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CHANGE : PROC course. HLDG pattern at NYLON, ANZAC, STING.



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1N ARRIVAL

From XAC, to ANZAC at 13000FT, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 8000FT, to NYLON.

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	XAC	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	ANZAC	—	069 (060.8)	-7.9	15.9	—	13000	230	—	RNAV1
003	TF	SOLAR	—	026 (018.4)	-7.9	9.1	—	13000	230	—	RNAV1
004	TF	SCOUT	—	052 (044.3)	-7.9	10.1	—	—	—	—	RNAV1
005	TF	TT250	—	131 (123.1)	-7.9	9.0	—	—	—	—	RNAV1
006	TF	TT251	—	110 (102.5)	-7.9	7.1	—	—	—	—	RNAV1
007	TF	TT252	—	092 (084.3)	-7.9	7.1	—	—	—	—	RNAV1
008	TF	STOCK	—	072 (063.6)	-7.9	9.0	—	13000	230	—	RNAV1
009	TF	SHAFT	—	330 (322.4)	-7.9	22.5	—	8000	—	—	RNAV1
010	TF	NYLON	—	358 (350.0)	-7.9	18.1	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at ANZAC, NYLON.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2N ARRIVAL

From XAC, to AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AKSEL	-	103 (095.3)	-7.9	22.0	-	12000	230	-	RNAV1
003	TF	LAFIT	-	067 (059.5)	-7.9	15.3	-	-10000	-	-	RNAV1
004	TF	STING	-	068 (059.6)	-7.9	7.0	-	-9000	-	-	RNAV1
005	TF	SPARK	-	005 (357.4)	-7.9	11.3	-	-7000	-	-	RNAV1
006	TF	SHAFT	-	005 (357.4)	-7.9	19.3	-	5000	-	-	RNAV1
007	TF	NYLON	-	358 (350.0)	-7.9	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

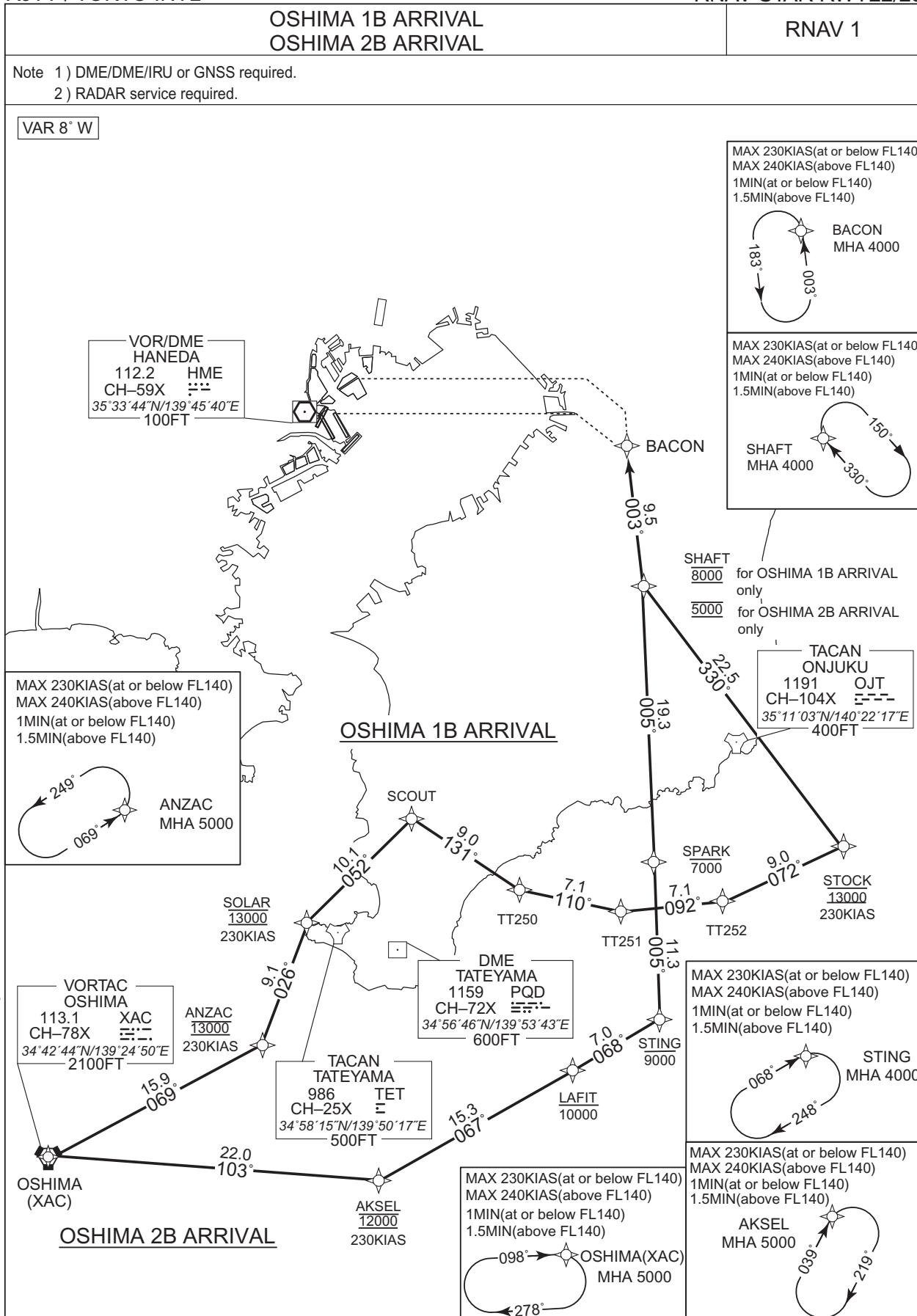
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	SPARK	350312.0N / 1401416.7E
ANZAC	345028.8N / 1394146.7E	STOCK	350438.7N / 1403002.9E
LAFIT	344826.0N / 1400732.4E	STING	345157.9N / 1401453.4E
NYLON	354018.5N / 1400919.9E	TT250	350129.7N / 1400308.5E
SCOUT	350624.1N / 1395356.8E	TT251	345957.7N / 1401136.0E
SHAFT	352227.4N / 1401313.3E	TT252	350039.9N / 1402013.0E
SOLAR	345909.2N / 1394518.5E	XAC	344244.1N / 1392450.5E

CHANGE : PROC course. VAR. HLDG pattern at STING, NYLON.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23



CHANGE : PROC course. HLDG pattern at ANZAC, STING.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL

From XAC, to ANZAC at 13000FT, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 8000FT, to BACON.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	069 (060.8)	-7.9	15.9	-	13000	230	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.9	9.1	-	13000	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.9	10.1	-	-	-	-	RNAV1
005	TF	TT250	-	131 (123.1)	-7.9	9.0	-	-	-	-	RNAV1
006	TF	TT251	-	110 (102.5)	-7.9	7.1	-	-	-	-	RNAV1
007	TF	TT252	-	092 (084.3)	-7.9	7.1	-	-	-	-	RNAV1
008	TF	STOCK	-	072 (063.6)	-7.9	9.0	-	13000	230	-	RNAV1
009	TF	SHAFT	-	330 (322.4)	-7.9	22.5	-	8000	-	-	RNAV1
010	TF	BACON	-	003 (355.2)	-7.9	9.5	-	-	-	-	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2B ARRIVAL

From XAC, to AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AKSEL	-	103 (095.3)	-7.9	22.0	-	12000	230	-	RNAV1
003	TF	LAFIT	-	067 (059.5)	-7.9	15.3	-	-10000	-	-	RNAV1
004	TF	STING	-	068 (059.6)	-7.9	7.0	-	-9000	-	-	RNAV1
005	TF	SPARK	-	005 (357.4)	-7.9	11.3	-	-7000	-	-	RNAV1
006	TF	SHAFT	-	005 (357.4)	-7.9	19.3	-	5000	-	-	RNAV1
007	TF	BACON	-	003 (355.2)	-7.9	9.5	-	-	-	-	RNAV1

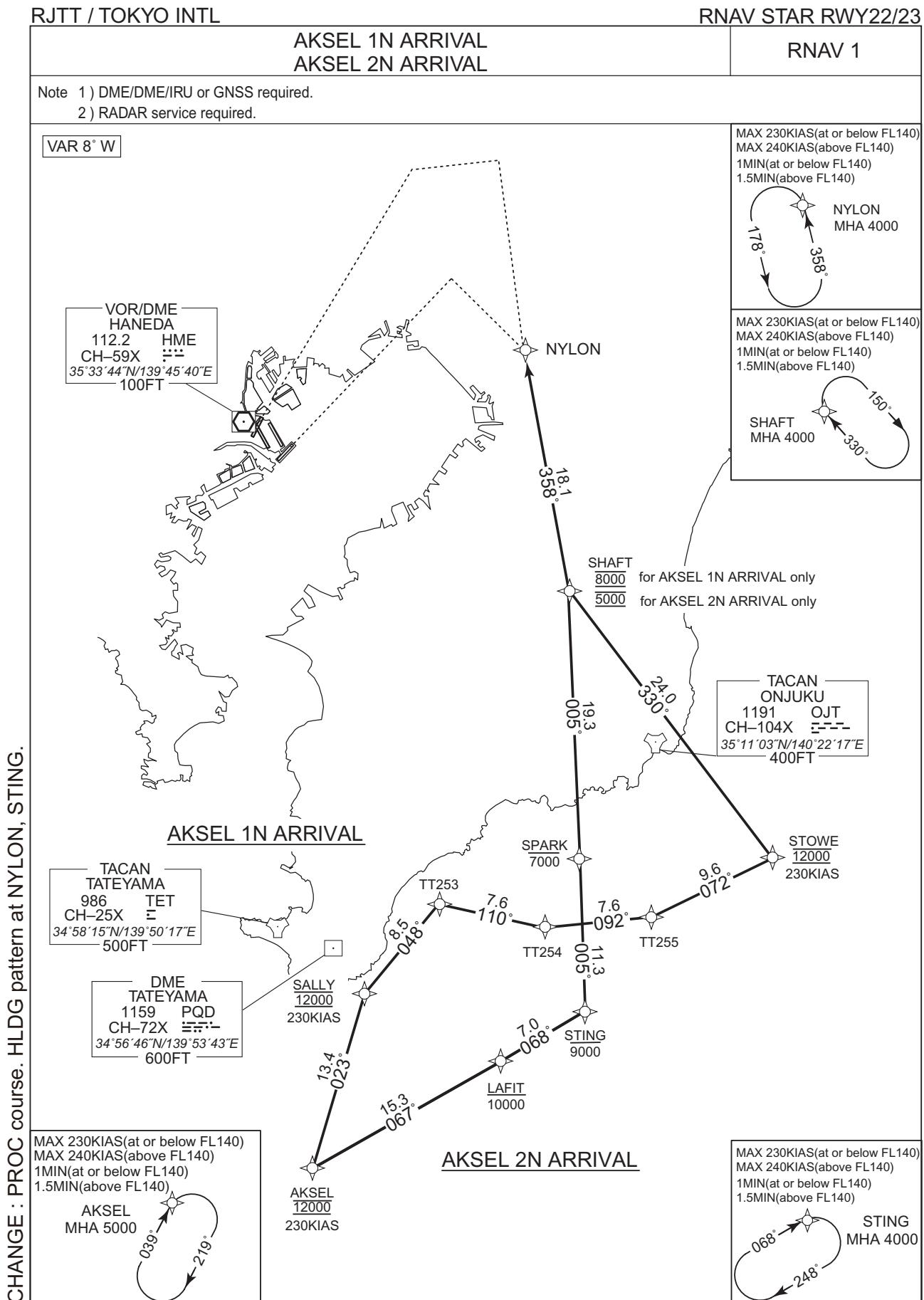
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	SPARK	350312.0N / 1401416.7E
ANZAC	345028.8N / 1394146.7E	STOCK	350438.7N / 1403002.9E
BACON	353155.0N / 1401215.1E	STING	345157.9N / 1401453.4E
LAFIT	344826.0N / 1400732.4E	TT250	350129.7N / 1400308.5E
SCOUT	350624.1N / 1395356.8E	TT251	345957.7N / 1401136.0E
SHAFT	352227.4N / 1401313.3E	TT252	350039.9N / 1402013.0E
SOLAR	345909.2N / 1394518.5E	XAC	344244.1N / 1392450.5E

CHANGE : PROC course. VAR. HLDG pattern at STING.

STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL

From AKSEL at 12000FT, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 8000FT, to NYLON.

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	AKSEL	-	-	-7.9	-	-	12000	230	-	RNAV1
002	TF	SALLY	-	023 (015.0)	-7.9	13.4	-	12000	230	-	RNAV1
003	TF	TT253	-	048 (040.5)	-7.9	8.5	-	-	-	-	RNAV1
004	TF	TT254	-	110 (102.0)	-7.9	7.6	-	-	-	-	RNAV1
005	TF	TT255	-	092 (084.4)	-7.9	7.6	-	-	-	-	RNAV1
006	TF	STOWE	-	072 (063.6)	-7.9	9.6	-	12000	230	-	RNAV1
007	TF	SHAFT	-	330 (322.4)	-7.9	24.0	-	8000	-	-	RNAV1
008	TF	NYLON	-	358 (350.0)	-7.9	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at NYLON.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2N ARRIVAL

From AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

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	AKSEL	-	-	-7.9	-	-	12000	230	-	RNAV1
002	TF	LAFIT	-	067 (059.5)	-7.9	15.3	-	-10000	-	-	RNAV1
003	TF	STING	-	068 (059.6)	-7.9	7.0	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.9	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.9	19.3	-	5000	-	-	RNAV1
006	TF	NYLON	-	358 (350.0)	-7.9	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	STING	345157.9N / 1401453.4E
LAFIT	344826.0N / 1400732.4E	STOWE	350325.9N / 1403111.4E
NYLON	354018.5N / 1400919.9E	TT253	350001.4N / 1400224.6E
SALLY	345333.9N / 1395540.1E	TT254	345826.5N / 1401129.4E
SHAFT	352227.4N / 1401313.3E	TT255	345910.9N / 1402041.4E
SPARK	350312.0N / 1401416.7E		

CHANGE : PROC course. VAR. HLDG pattern at STING, NYLON.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL  
AKSEL 2B ARRIVAL

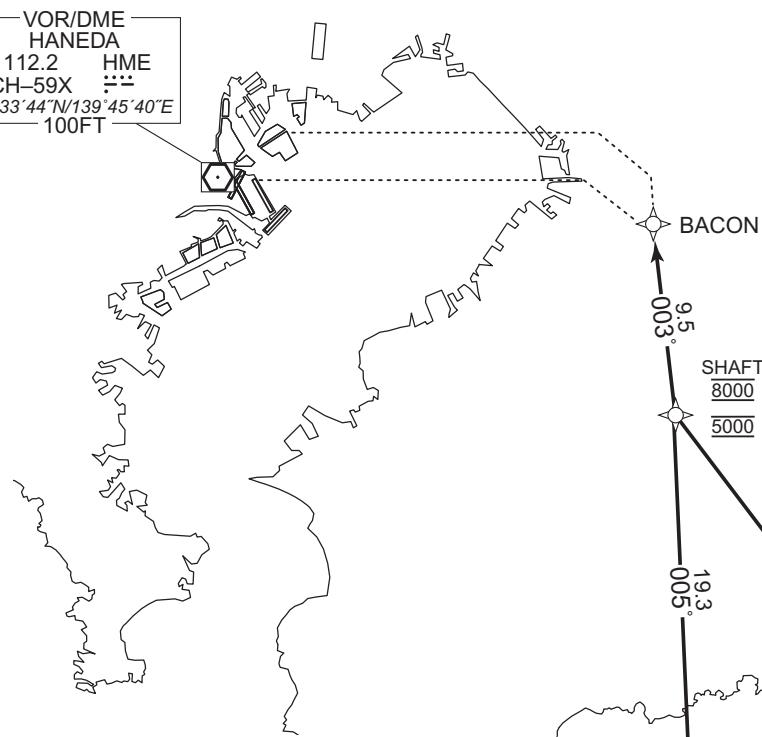
RNAV 1

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

2) RADAR service required.

VAR 8° W

VOR/DME  
HANEDA  
112.2 HME  
CH-59X   
35°33'44"N/139°45'40"E  
100FT



MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

BACON  
MHA 4000  
183° ↗ 303°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SHAFT  
MHA 4000  
150° ↗ 330°

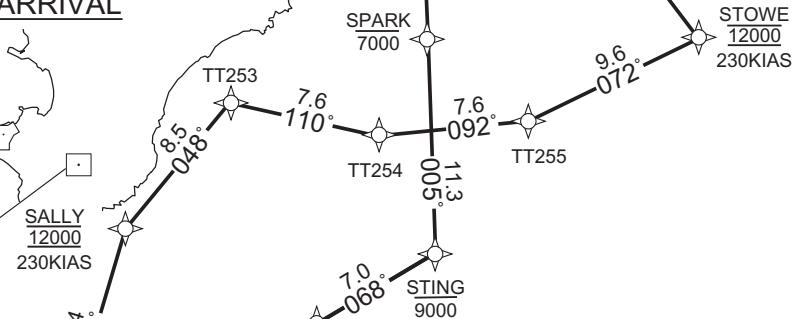
SHAFT  
8000 for AKSEL 1B ARRIVAL only  
5000 for AKSEL 2B ARRIVAL only

TACAN  
ONJUKU  
1191 OJT  
CH-104X   
35°11'03"N/140°22'17"E  
400FT

AKSEL 1B ARRIVAL

TACAN  
TATEYAMA  
986 TET  
CH-25X   
34°58'15"N/139°50'17"E  
500FT

DME  
TATEYAMA  
1159 PQD  
CH-72X   
34°56'46"N/139°53'43"E  
600FT



MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

AKSEL  
MHA 5000  
039° ↗ 219°

AKSEL 2B ARRIVAL

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

STING  
MHA 4000  
068° ↗ 248°

CHANGE : PROC course, HLDG pattern at STING.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL

From AKSEL at 12000FT, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 8000FT, to BACON.

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	AKSEL	-	-	-7.9	-	-	12000	230	-	RNAV1
002	TF	SALLY	-	023 (015.0)	-7.9	13.4	-	12000	230	-	RNAV1
003	TF	TT253	-	048 (040.5)	-7.9	8.5	-	-	-	-	RNAV1
004	TF	TT254	-	110 (102.0)	-7.9	7.6	-	-	-	-	RNAV1
005	TF	TT255	-	092 (084.4)	-7.9	7.6	-	-	-	-	RNAV1
006	TF	STOWE	-	072 (063.6)	-7.9	9.6	-	12000	230	-	RNAV1
007	TF	SHAFT	-	330 (322.4)	-7.9	24.0	-	8000	-	-	RNAV1
008	TF	BACON	-	003 (355.2)	-7.9	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2B ARRIVAL

From AKSEL at 12000FT, to LAFIT at or below 10000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

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	AKSEL	-	-	-7.9	-	-	12000	230	-	RNAV1
002	TF	LAFIT	-	067 (059.5)	-7.9	15.3	-	-10000	-	-	RNAV1
003	TF	STING	-	068 (059.6)	-7.9	7.0	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.9	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.9	19.3	-	5000	-	-	RNAV1
006	TF	BACON	-	003 (355.2)	-7.9	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	STING	345157.9N / 1401453.4E
BACON	353155.0N / 1401215.1E	STOWE	350325.9N / 1403111.4E
LAFIT	344826.0N / 1400732.4E	TT253	350001.4N / 1400224.6E
SALLY	345333.9N / 1395540.1E	TT254	345826.5N / 1401129.4E
SHAFT	352227.4N / 1401313.3E	TT255	345910.9N / 1402041.4E
SPARK	350312.0N / 1401416.7E		

CHANGE : PROC course. VAR. HLDG pattern at STING

## **STANDARD ARRIVAL CHART-INSTRUMENT**

RJTT / TOKYO INTL

## RNAV STAR RWY22/23

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

## **AROSA 1N ARRIVAL**

## **AROSA 2N ARRIVAL**

RNAV 1

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

2 ) RADAR service required.

VAR 8° W

VOR/DME  
HANEDA  
112.2 HME  
CH-59X ::  
35°33'44"N/139°45'40"E  
100FT

NYI ON

NYLON  
MHA 4000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SHAFT  
MHA 4000

## SHAFT

8000 for AROSA 1N ARRIVAL only  
5000 for AROSA 2N ARRIVAL only

— TACAN —  
ONJUKU  
1191 OJT  
H-104X         
11°03'N/140°22'17"E  
— 400FT —

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

STING

CHANGE : PROC course. HLDG pattern at NYLON, STING.

MAX 230KIAS(at or below FL  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

0) AROSA 1N ARRIVAL

AROSA 2N ARRIVAL

The figure shows a section of an aeronautical chart. On the left, there is a north arrow pointing upwards. Below it, the text "AVEEY MHA 5000" is written next to a small circle containing a starburst symbol. To the right, there are two sets of flight level markings. The first set, labeled "ALDEN 11000 230KIAS", consists of a starburst symbol with a horizontal line extending from its center, followed by the text "ALDEN 11000 230KIAS". The second set, labeled "AVEEY 13400 338KIAS", also consists of a starburst symbol with a horizontal line, followed by the text "AVEEY 13400 338KIAS". Above these markings, there are curved lines representing flight paths. One path starts from the ALDEN side and curves towards the AVEEY side, with "134°" written above it. Another path starts from the AVEEY side and curves towards the ALDEN side, with "338°" written above it.

**SPARK**  
005° 113  
**STING**  
9000 338° 118  
**AVEEY**

AVEEY      16.4      278°      AROSA  
 11000  
 230KIAS

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1N ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 8000FT, to NYLON.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	338 (330.0)	-7.9	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	338 (329.9)	-7.9	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.9	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.9	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.9	25.6	-	8000	-	-	RNAV1
008	TF	NYLON	-	358 (350.0)	-7.9	18.1	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at NYLON.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2N ARRIVAL

From AROSA, to AVEEY at 11000FT, to STING at or below 9000FT, to SPARK at or below 7000FT, to SHAFT at 5000FT, to NYLON.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	STING	-	338 (330.0)	-7.9	11.6	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.9	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.9	19.3	-	5000	-	-	RNAV1
006	TF	NYLON	-	358 (350.0)	-7.9	18.1	-	-	-	-	RNAV1

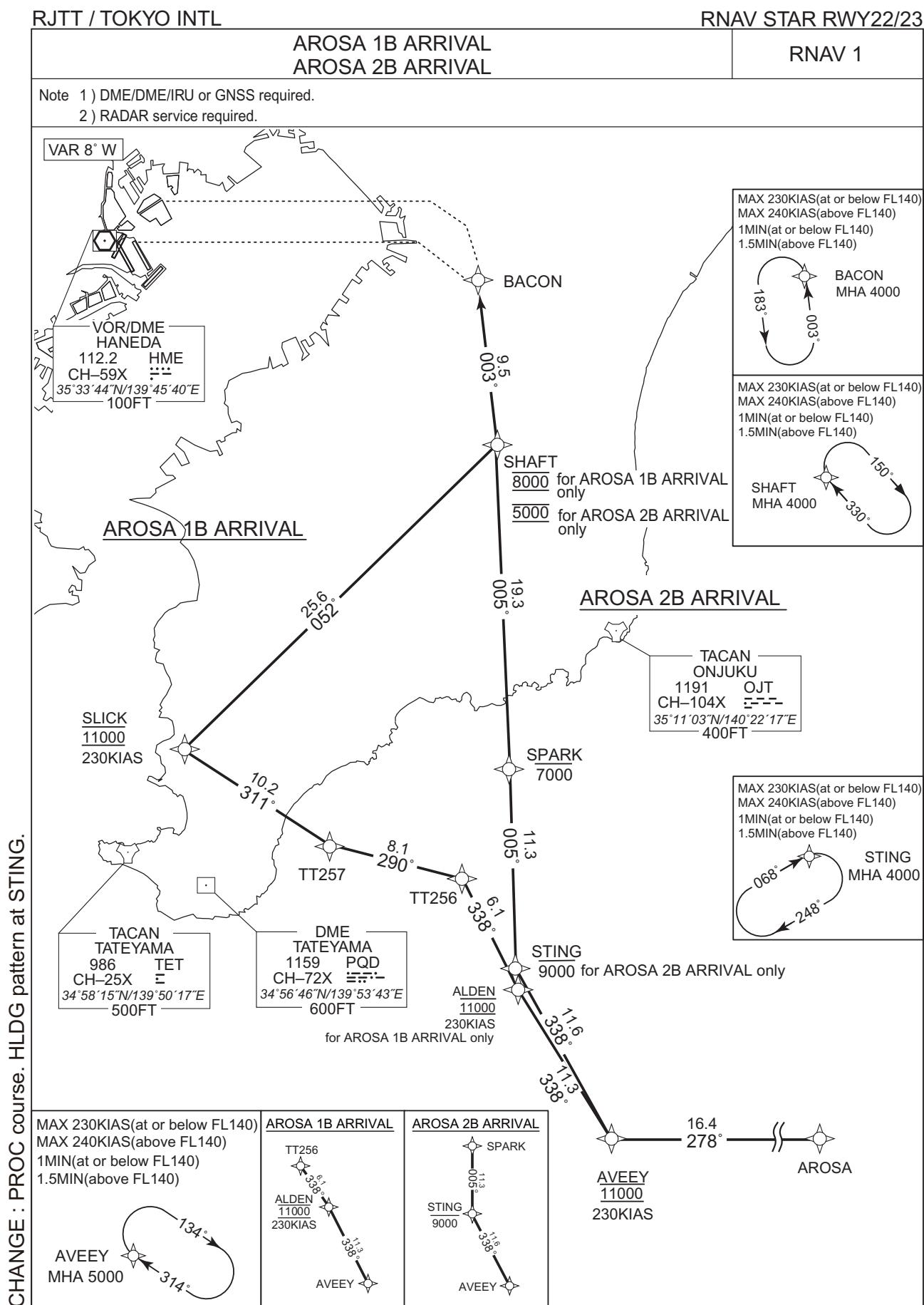
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	345141.1N / 1401505.3E	SLICK	350412.7N / 1395120.0E
AROSA	344201.7N / 1404157.3E	SPARK	350312.0N / 1401416.7E
AVEEY	344155.9N / 1402158.0E	STING	345157.9N / 1401453.4E
NYLON	354018.5N / 1400919.9E	TT256	345655.4N / 1401122.9E
SHAFT	352227.4N / 1401313.3E	TT257	345838.5N / 1400146.6E

CHANGE : PROC course. VAR. HLDG pattern at STING, NYLON.

## STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 8000FT, to BACON.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	338 (330.0)	-7.9	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	338 (329.9)	-7.9	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.9	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.9	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.9	25.6	-	8000	-	-	RNAV1
008	TF	BACON	-	003 (355.2)	-7.9	9.5	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2B ARRIVAL

From AROSA, to AVEEY at 11000FT, to STING at or below 9000FT , to SPARK at or below 7000FT, to SHAFT at 5000FT, to BACON.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	STING	-	338 (330.0)	-7.9	11.6	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.9	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.9	19.3	-	5000	-	-	RNAV1
006	TF	BACON	-	003 (355.2)	-7.9	9.5	-	-	-	-	RNAV1

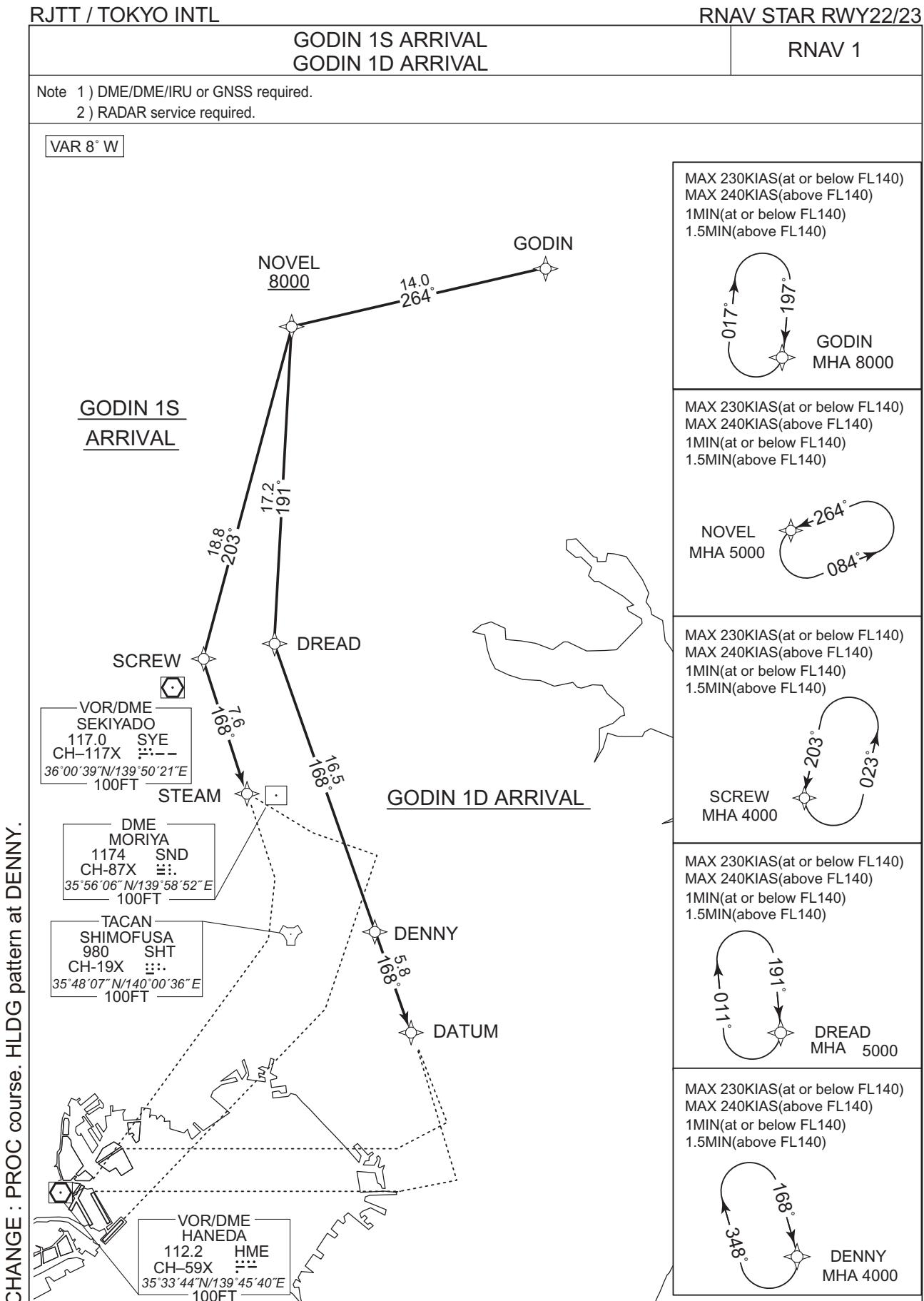
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	345141.1N / 1401505.3E	SLICK	350412.7N / 1395120.0E
AROSA	344201.7N / 1404157.3E	SPARK	350312.0N / 1401416.7E
AVEEY	344155.9N / 1402158.0E	STING	345157.9N / 1401453.4E
BACON	353155.0N / 1401215.1E	TT256	345655.4N / 1401122.9E
SHAFT	352227.4N / 1401313.3E	TT257	345838.5N / 1400146.6E

CHANGE : PROC course, VAR, HLDG pattern at STING.

STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1S ARRIVAL

From GODIN, to NOVEL at or above 8000FT, to SCREW, to STEAM.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.9	14.0	-	+8000	-	-	RNAV1
003	TF	SCREW	-	203 (195.2)	-7.9	18.8	-	-	-	-	RNAV1
004	TF	STEAM	-	168 (160.4)	-7.9	7.6	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1D ARRIVAL

From GODIN, to NOVEL at or above 8000FT, to DREAD, to DENNY, to DATUM.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.9	14.0	-	+8000	-	-	RNAV1
003	TF	DREAD	-	191 (183.1)	-7.9	17.2	-	-	-	-	RNAV1
004	TF	DENNY	-	168 (159.9)	-7.9	16.5	-	-	-	-	RNAV1
005	TF	DATUM		168 (160.0)	-7.9	5.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	168 (159.9)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at DENNY.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DATUM	354259.6N / 1400824.3E	NOVEL	362106.9N / 1400004.9E
DENNY	354828.8N / 1400556.4E	SCREW	360301.2N / 1395400.4E
DREAD	360359.2N / 1395856.9E	STEAM	355553.3N / 1395708.4E
GODIN	362425.3N / 1401655.9E		

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

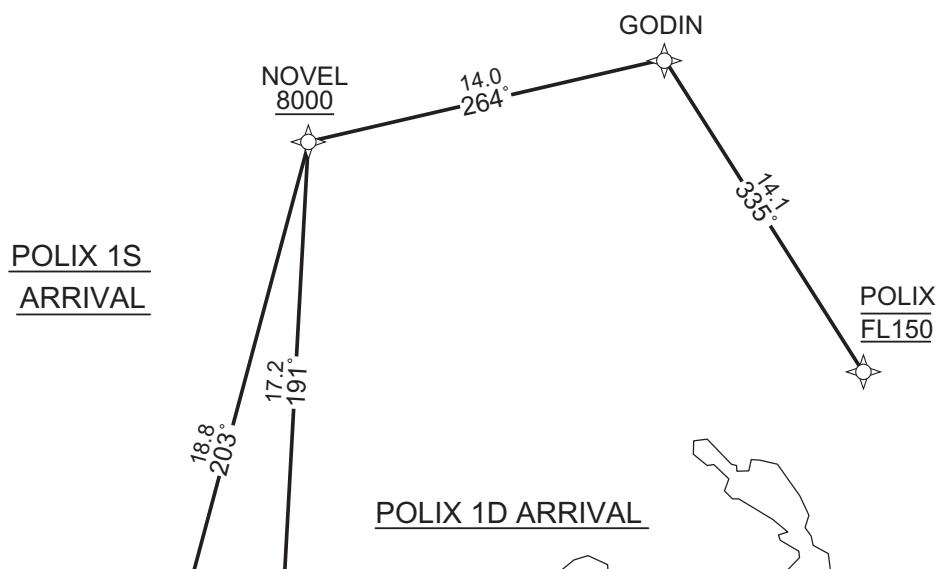
POLIX 1S ARRIVAL  
POLIX 1D ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W



CHANGE : PROC course. HLDG pattern at DENNY.

MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140)	MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140)
--	--

POLIX MHA 11000  
310°  
203°  
023°

MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140)
--

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

DREAD MHA 5000  
191°  
011°

MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140)
--

GODIN MHA 8000  
197°  
017°

MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140)
--

NOVEL MHA 5000  
264°  
084°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at or above 8000FT, to SCREW, to STEAM.

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	POLIX	-	-	-7.9	-	-	FL150	-	-	RNAV1
002	TF	GODIN	-	335 (327.2)	-7.9	14.1	-	-	-	-	RNAV1
003	TF	NOVEL	-	264 (256.4)	-7.9	14.0	-	+8000	-	-	RNAV1
004	TF	SCREW	-	203 (195.2)	-7.9	18.8	-	-	-	-	RNAV1
005	TF	STEAM	-	168 (160.4)	-7.9	7.6	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1D ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at or above 8000FT, to DREAD, to DENNY, to DATUM.

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	POLIX	-	-	-7.9	-	-	FL150	-	-	RNAV1
002	TF	GODIN	-	335 (327.2)	-7.9	14.1	-	-	-	-	RNAV1
003	TF	NOVEL	-	264 (256.4)	-7.9	14.0	-	+8000	-	-	RNAV1
004	TF	DREAD	-	191 (183.1)	-7.9	17.2	-	-	-	-	RNAV1
005	TF	DENNY	-	168 (159.9)	-7.9	16.5	-	-	-	-	RNAV1
006	TF	DATUM	-	168 (160.0)	-7.9	5.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	168 (159.9)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

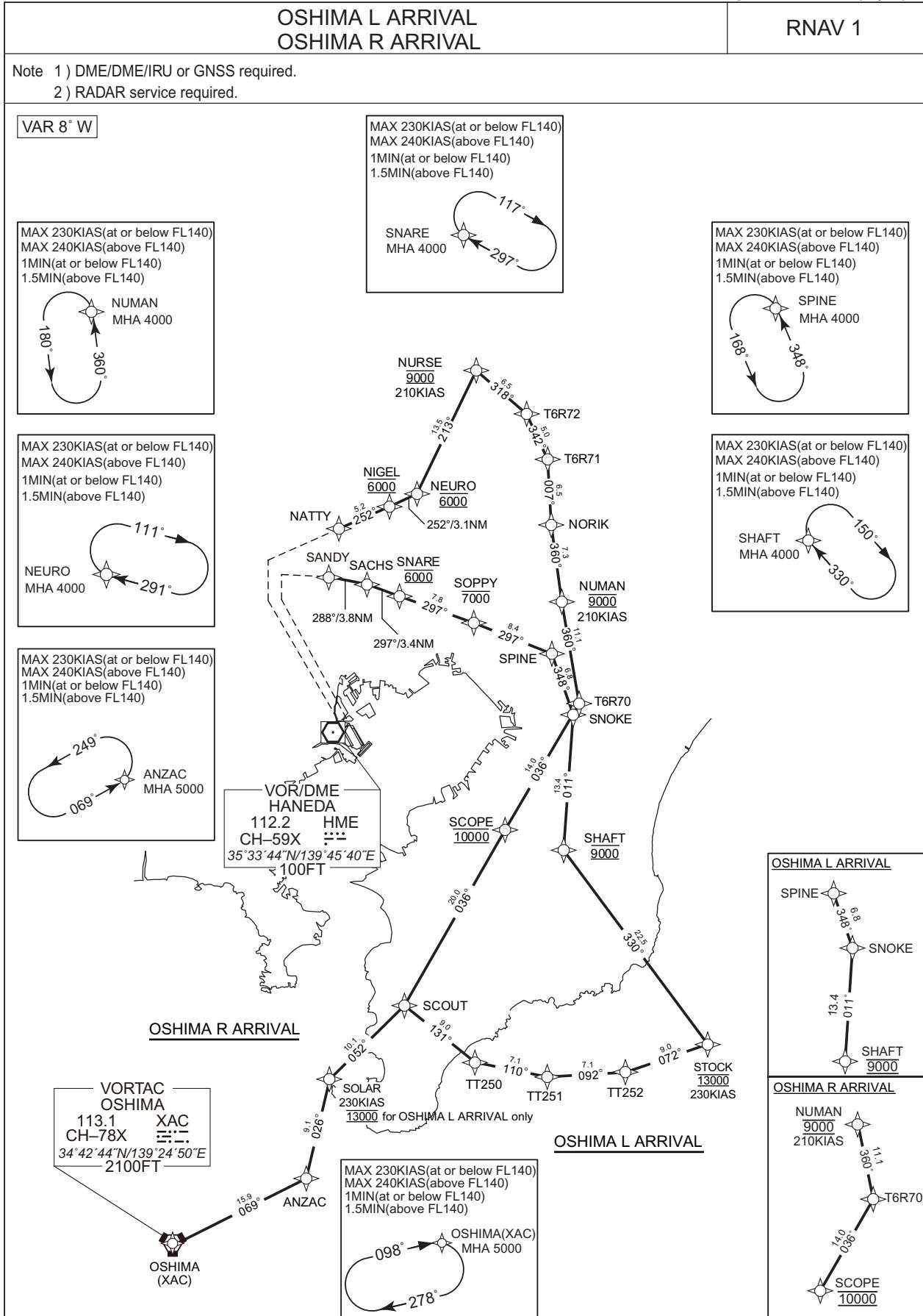
Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
DATUM	354259.6N / 1400824.3E	NOVEL	362106.9N / 1400004.9E
DENNY	354828.8N / 1400556.4E	POLIX	361237.1N / 1402622.5E
DREAD	360359.2N / 1395856.9E	SCREW	360301.2N / 1395400.4E
GODIN	362425.3N / 1401655.9E	STEAM	355553.3N / 1395708.4E

CHANGE : PROC course. VAR. HLDG pattern at DENNY.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL



CHANGE : PROC course. HLDG pattern at NEURO, ANZAC.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL

From XAC, to ANZAC, to SOLAR at 13000FT, to SCOUT, to TT250, to TT251, to TT252, to STOCK at 13000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	069 (060.8)	-7.9	15.9	-	-	-	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.9	9.1	-	13000	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.9	10.1	-	-	-	-	RNAV1
005	TF	TT250	-	131 (123.1)	-7.9	9.0	-	-	-	-	RNAV1
006	TF	TT251	-	110 (102.5)	-7.9	7.1	-	-	-	-	RNAV1
007	TF	TT252	-	092 (084.3)	-7.9	7.1	-	-	-	-	RNAV1
008	TF	STOCK	-	072 (063.6)	-7.9	9.0	-	13000	230	-	RNAV1
009	TF	SHAFT	-	330 (322.4)	-7.9	22.5	-	9000		-	RNAV1
010	TF	SNOKE	-	011 (003.4)	-7.9	13.4	-	-	-	-	RNAV1
011	TF	SPINE	-	348 (340.6)	-7.9	6.8	-	-	-	-	RNAV1
012	TF	SOPPY	-	297 (289.2)	-7.9	8.4	-	-7000	-	-	RNAV1
013	TF	SNARE	-	297 (289.1)	-7.9	7.8	-	6000	-	-	RNAV1
014	TF	SACHS	-	297 (289.0)	-7.9	3.4	-	-	-	-	RNAV1
015	TF	SANDY	-	288 (280.0)	-7.9	3.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at ANZAC.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA R ARRIVAL

From XAC, to ANZAC, to SOLAR, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	069 (060.8)	-7.9	15.9	-	-	-	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.9	9.1	-	-	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.9	10.1	-	-	-	-	RNAV1
005	TF	SCOPE	-	036 (028.5)	-7.9	20.0	-	10000	-	-	RNAV1
006	TF	T6R70	-	036 (028.6)	-7.9	14.0	-	-	-	-	RNAV1
007	TF	NUMAN	-	360 (352.5)	-7.9	11.1	-	9000	210	-	RNAV1
008	TF	NORIK	-	360 (352.5)	-7.9	7.3	-	-	-	-	RNAV1
009	TF	T6R71	-	007 (358.9)	-7.9	6.5	-	-	-	-	RNAV1
010	TF	T6R72	-	342 (334.4)	-7.9	5.0	-	-	-	-	RNAV1
011	TF	NURSE	-	318 (309.8)	-7.9	6.5	-	9000	210	-	RNAV1
012	TF	NEURO	-	213 (205.5)	-7.9	13.5	-	6000	-	-	RNAV1
013	TF	NIGEL	-	252 (244.1)	-7.9	3.1	-	6000	-	-	RNAV1
014	TF	NATTY	-	252 (244.1)	-7.9	5.2	-	-	-	-	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at ANZAC, NEURO.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	291 (282.9)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ANZAC	345028.8N / 1394146.7E	SNOKE	353551.6N / 1401411.7E
NATTY	355350.9N / 1394531.3E	SOLAR	345909.2N / 1394518.5E
NEURO	355727.6N / 1395441.3E	SOPPY	354458.8N / 1400140.3E
NIGEL	355607.5N / 1395117.8E	SPINE	354213.5N / 1401125.8E
NRIK	355428.9N / 1401054.5E	STOCK	350438.7N / 1403002.9E
NUMAN	354714.4N / 1401204.9E	T6R70	353614.4N / 1401351.4E
NURSE	360939.3N / 1400153.3E	T6R71	360059.5N / 1401045.1E
SACHS	354838.2N / 1394838.4E	T6R72	360530.2N / 1400804.3E
SANDY	354917.5N / 1394402.8E	TT250	350129.7N / 1400308.5E
SCOPE	352358.4N / 1400538.3E	TT251	345957.7N / 1401136.0E
SCOUT	350624.1N / 1395356.8E	TT252	350039.9N / 1402013.0E
SHAFT	352227.4N / 1401313.3E	XAC	344244.1N / 1392450.5E
SNARE	354731.1N / 1395238.1E		

CHANGE : ACCORN, T6L60 abolished. ANZAC, SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL  
AKSEL R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NUMAN  
MHA 4000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SNARE  
MHA 4000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SPINE  
MHA 4000

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NEURO  
MHA 4000

NURSE 9000  
210KIAS  
NEURO 6000  
6000  
NIGEL 6000  
6000  
NEURO 6000  
6000  
SANDY 5.2  
SACHS 252  
SNARE 6000  
6000  
SOPPY 7000  
7000  
NUMAN 9000  
210KIAS  
NATTY 5.2  
T6R72 378  
T6R71 342  
NORIK 6.5  
360°  
348  
SHAFT 9000  
9000  
SCOPE 10000  
10000  
SNOKE 348  
348  
STOWE 12000  
230KIAS  
SCOUT 140  
140  
TT253 036  
TT254 036  
TT255 036  
SALLY 230KIAS  
230KIAS  
AKSEL 12000 for AKSEL L ARRIVAL only  
12000  
AKSEL 5000  
5000  
VOR/DME  
HANEDA  
112.2  
CH-59X  
35°33'44"N/139°45'40"E  
100FT

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SHAFT  
MHA 4000

CHANGE : PROC course. HLDG pattern at NEURO.

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

AKSEL  
MHA 5000

AKSEL L ARRIVAL	SPINE 348 SNOKE 348 134 011° SHAFT 9000
AKSEL R ARRIVAL	STOWE 12000 230KIAS SCOUT 140 TT253 048° TT254 092° TT255 072° SALLY 230KIAS 12000 for AKSEL L ARRIVAL only AKSEL 5000 134 023° 111° 036° SCOPE 10000
AKSEL L ARRIVAL	NUMAN 9000 210KIAS T6R70 140 036° SCOPE 10000

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL

From AKSEL, to SALLY at 12000FT, to TT253, to TT254, to TT255, to STOWE at 12000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

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	AKSEL	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.9	13.4	—	12000	230	—	RNAV1
003	TF	TT253	—	048 (040.5)	-7.9	8.5	—	—	—	—	RNAV1
004	TF	TT254	—	110 (102.0)	-7.9	7.6	—	—	—	—	RNAV1
005	TF	TT255	—	092 (084.4)	-7.9	7.6	—	—	—	—	RNAV1
006	TF	STOWE	—	072 (063.6)	-7.9	9.6	—	12000	230	—	RNAV1
007	TF	SHAFT	—	330 (322.4)	-7.9	24.0	—	9000	—	—	RNAV1
008	TF	SNOKE	—	011 (003.4)	-7.9	13.4	—	—	—	—	RNAV1
009	TF	SPINE	—	348 (340.6)	-7.9	6.8	—	—	—	—	RNAV1
010	TF	SOPPY	—	297 (289.2)	-7.9	8.4	—	-7000	—	—	RNAV1
011	TF	SNARE	—	297 (289.1)	-7.9	7.8	—	6000	—	—	RNAV1
012	TF	SACHS	—	297 (289.0)	-7.9	3.4	—	—	—	—	RNAV1
013	TF	SANDY	—	288 (280.0)	-7.9	3.8	—	—	—	—	RNAV1

CHANGE : PROC course. VAR.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL R ARRIVAL

From AKSEL, to SALLY, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

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	AKSEL	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.9	13.4	—	—	230	—	RNAV1
003	TF	SCOUT	—	002 (353.7)	-7.9	12.9	—	—	—	—	RNAV1
004	TF	SCOPE	—	036 (028.5)	-7.9	20.0	—	10000	—	—	RNAV1
005	TF	T6R70	—	036 (028.6)	-7.9	14.0	—	—	—	—	RNAV1
006	TF	NUMAN	—	360 (352.5)	-7.9	11.1	—	9000	210	—	RNAV1
007	TF	NORIK	—	360 (352.5)	-7.9	7.3	—	—	—	—	RNAV1
008	TF	T6R71	—	007 (358.9)	-7.9	6.5	—	—	—	—	RNAV1
009	TF	T6R72	—	342 (334.4)	-7.9	5.0	—	—	—	—	RNAV1
010	TF	NURSE	—	318 (309.8)	-7.9	6.5	—	9000	210	—	RNAV1
011	TF	NEURO	—	213 (205.5)	-7.9	13.5	—	6000	—	—	RNAV1
012	TF	NIGEL	—	252 (244.1)	-7.9	3.1	—	6000	—	—	RNAV1
013	TF	NATTY	—	252 (244.1)	-7.9	5.2	—	—	—	—	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	291 (282.9)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	SHAFT	352227.4N / 1401313.3E
NATTY	355350.9N / 1394531.3E	SNARE	354731.1N / 1395238.1E
NEURO	355727.6N / 1395441.3E	SNOKE	353551.6N / 1401411.7E
NIGEL	355607.5N / 1395117.8E	SOPPY	354458.8N / 1400140.3E
NORIK	355428.9N / 1401054.5E	SPINE	354213.5N / 1401125.8E
NUMAN	354714.4N / 1401204.9E	STOWE	350325.9N / 1403111.4E
NURSE	360939.3N / 1400153.3E	T6R70	353614.4N / 1401351.4E
SACHS	354838.2N / 1394838.4E	T6R71	360059.5N / 1401045.1E
SALLY	345333.9N / 1395540.1E	T6R72	360530.2N / 1400804.3E
SANDY	354917.5N / 1394402.8E	TT253	350001.4N / 1400224.6E
SCOPE	352358.4N / 1400538.3E	TT254	345826.5N / 1401129.4E
SCOUT	350624.1N / 1395356.8E	TT255	345910.9N / 1402041.4E

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL  
AROSA R ARRIVAL

RNAV 1

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

VAR 8° W

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NUMAN  
MHA 4000

081°  
093°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NEURO  
MHA 4000

111°  
291°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SNARE  
MHA 4000

717°  
297°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SPINE  
MHA 4000

89°  
84°

AROSA L ARRIVAL

SPINE

84°  
89°

011°

13.4

SHAFT

9000

AROSA R ARRIVAL

NUMAN

9000

210KIAS

093°  
111°

T6R70

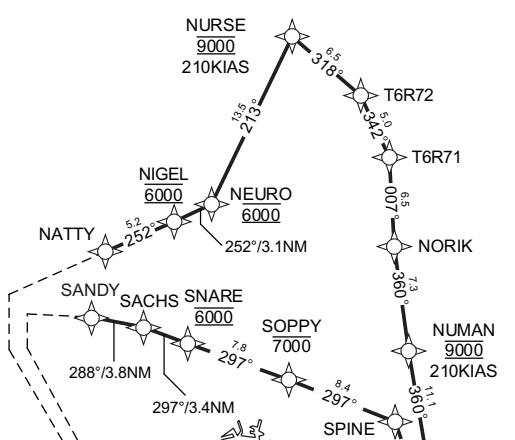
14°  
036°

SCOPE

10000

VOR/DME  
HANEDA  
112.2 HME  
CH-59X  
35°33'44"N/139°45'40"E  
100FT

CHANGE : PROC course. HLDG pattern at NEURO.



MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SHAFT  
MHA 4000

130°  
330°

MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

AVEEY  
MHA 5000

134°  
314°

AROSA R ARRIVAL

AROSA L ARRIVAL

SLICK  
11000  
230KIAS

328°  
311°

101°  
102°

290°  
281°

81°  
82°

290°  
281°

81°  
82°

290°  
281°

81°  
82°

290°  
281°

81°  
82°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SLICK at 11000FT, to SHAFT at 9000FT, to SNOKE, to SPINE, to SOPPY at or below 7000FT, to SNARE at 6000FT, to SACHS, to SANDY.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	338 (330.0)	-7.9	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	338 (329.9)	-7.9	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.9	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.9	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.9	25.6	-	9000	-	-	RNAV1
008	TF	SNOKE	-	011 (003.4)	-7.9	13.4	-	-	-	-	RNAV1
009	TF	SPINE	-	348 (340.6)	-7.9	6.8	-	-	-	-	RNAV1
010	TF	SOPPY	-	297 (289.2)	-7.9	8.4	-	-7000	-	-	RNAV1
011	TF	SNARE	-	297 (289.1)	-7.9	7.8	-	6000	-	-	RNAV1
012	TF	SACHS	-	297 (289.0)	-7.9	3.4	-	-	-	-	RNAV1
013	TF	SANDY	-	288 (280.0)	-7.9	3.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course, VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA R ARRIVAL

From AROSA, to AVEEY at 11000FT, to ALDEN at 11000FT, to TT256, to TT257, to SCOUT, to SCOPE at 10000FT, to T6R70, to NUMAN at 9000FT, to NORIK, to T6R71, to T6R72, to NURSE at 9000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	338 (330.0)	-7.9	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	338 (329.9)	-7.9	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.9	8.1	-	-	-	-	RNAV1
006	TF	SCOUT	-	328 (320.5)	-7.9	10.1	-	-	-	-	RNAV1
007	TF	SCOPE	-	036 (028.5)	-7.9	20.0	-	10000	-	-	RNAV1
008	TF	T6R70	-	036 (028.6)	-7.9	14.0	-	-	-	-	RNAV1
009	TF	NUMAN	-	360 (352.5)	-7.9	11.1	-	9000	210	-	RNAV1
010	TF	NORIK	-	360 (352.5)	-7.9	7.3	-	-	-	-	RNAV1
011	TF	T6R71	-	007 (358.9)	-7.9	6.5	-	-	-	-	RNAV1
012	TF	T6R72	-	342 (334.4)	-7.9	5.0	-	-	-	-	RNAV1
013	TF	NURSE	-	318 (309.8)	-7.9	6.5	-	9000	210	-	RNAV1
014	TF	NEURO	-	213 (205.5)	-7.9	13.5	-	6000	-	-	RNAV1
015	TF	NIGEL	-	252 (244.1)	-7.9	3.1	-	6000	-	-	RNAV1
016	TF	NATTY	-	252 (244.1)	-7.9	5.2	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.9	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	291 (282.9)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ALDEN	345141.1N / 1401505.3E	SCOUT	350624.1N / 1395356.8E
AROSA	344201.7N / 1404157.3E	SHAFT	352227.4N / 1401313.3E
AVEEY	344155.9N / 1402158.0E	SLICK	350412.7N / 1395120.0E
NATTY	355350.9N / 1394531.3E	SNARE	354731.1N / 1395238.1E
NEURO	355727.6N / 1395441.3E	SNOKE	353551.6N / 1401411.7E
NIGEL	355607.5N / 1395117.8E	SOPPY	354458.8N / 1400140.3E
NORIK	355428.9N / 1401054.5E	SPINE	354213.5N / 1401125.8E
NUMAN	354714.4N / 1401204.9E	T6R70	353614.4N / 1401351.4E
NURSE	360939.3N / 1400153.3E	T6R71	360059.5N / 1401045.1E
SACHS	354838.2N / 1394838.4E	T6R72	360530.2N / 1400804.3E
SANDY	354917.5N / 1394402.8E	TT256	345655.4N / 1401122.9E
SCOPE	352358.4N / 1400538.3E	TT257	345838.5N / 1400146.6E

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

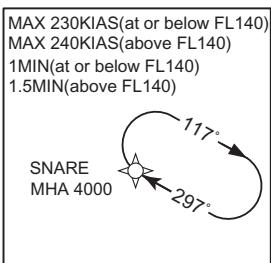
GODIN L ARRIVAL  
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

RNAV 1

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

VAR 8° W



MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

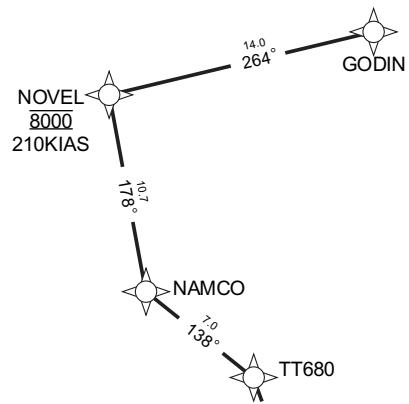
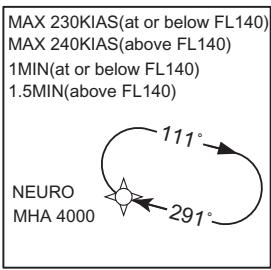
NOVEL  
MHA 5000

264°  
084°

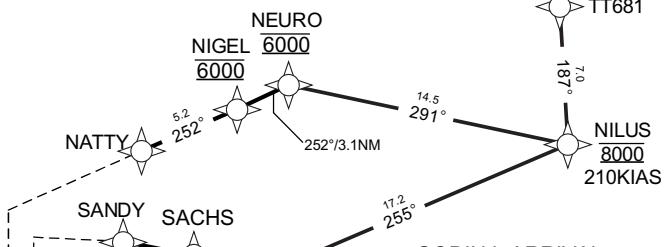
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

017°  
197°

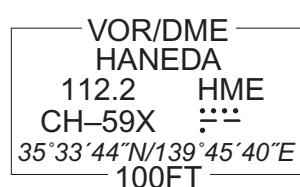
GODIN  
MHA 8000



GODIN R ARRIVAL



GODIN L ARRIVAL



CHANGE : PROC course. HLDG pattern at NEURO.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN L ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to SACHS, to SANDY.

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	GODIN	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.9	14.0	-	8000	210	-	RNAV1
003	TF	NAMCO	-	178 (169.8)	-7.9	10.7	-	-	-	-	RNAV1
004	TF	TT680	-	138 (129.7)	-7.9	7.0	-	-	-	-	RNAV1
005	TF	TT681	-	162 (154.3)	-7.9	5.4	-	-	-	-	RNAV1
006	TF	NILUS	-	187 (178.9)	-7.9	7.0	-	8000	210	-	RNAV1
007	TF	SNARE	-	255 (247.0)	-7.9	17.2	-	6000	-	-	RNAV1
008	TF	SACHS	-	297 (289.0)	-7.9	3.4	-	-	-	-	RNAV1
009	TF	SANDY	-	288 (280.0)	-7.9	3.8	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN R ARRIVAL

From GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

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	GODIN	–	–	-7.9	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.9	14.0	–	8000	210	–	RNAV1
003	TF	NAMCO	–	178 (169.8)	-7.9	10.7	–	–	–	–	RNAV1
004	TF	TT680	–	138 (129.7)	-7.9	7.0	–	–	–	–	RNAV1
005	TF	TT681	–	162 (154.3)	-7.9	5.4	–	–	–	–	RNAV1
006	TF	NILUS	–	187 (178.9)	-7.9	7.0	–	8000	210	–	RNAV1
007	TF	NEURO	–	291 (282.9)	-7.9	14.5	–	6000	–	–	RNAV1
008	TF	NIGEL	–	252 (244.1)	-7.9	3.1	–	6000	–	–	RNAV1
009	TF	NATTY	–	252 (244.1)	-7.9	5.2	–	–	–	–	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	291 (282.9)	-7.9	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GODIN	362425.3N / 1401655.9E	NOVEL	362106.9N / 1400004.9E
NAMCO	361035.1N / 1400226.3E	SACHS	354838.2N / 1394838.4E
NATTY	355350.9N / 1394531.3E	SANDY	354917.5N / 1394402.8E
NEURO	355727.6N / 1395441.3E	SNARE	354731.1N / 1395238.1E
NIGEL	355607.5N / 1395117.8E	TT680	360608.2N / 1400904.0E
NILUS	355415.2N / 1401208.8E	TT681	360113.8N / 1401158.7E

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

POLIX L ARRIVAL  
POLIX R ARRIVAL

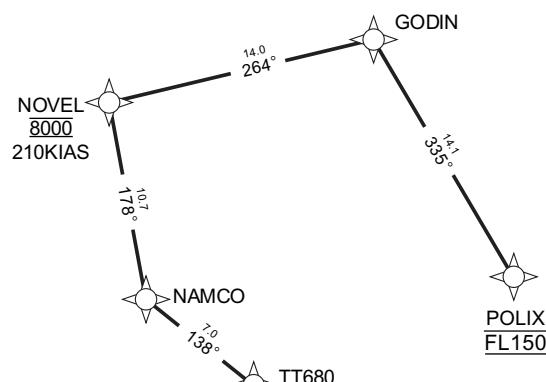
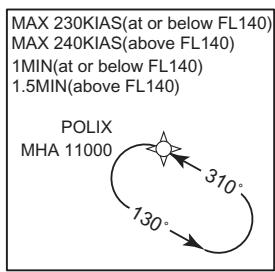
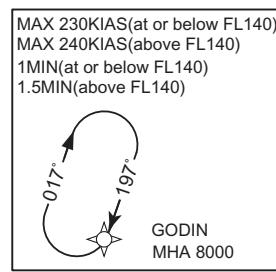
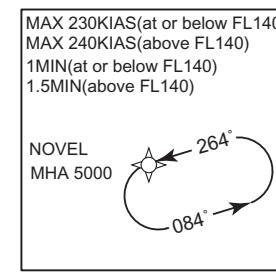
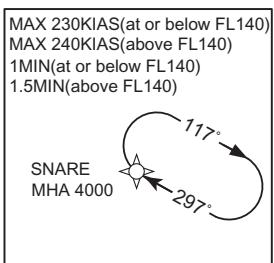
RNAV STAR RWY16L/16R

RNAV 1

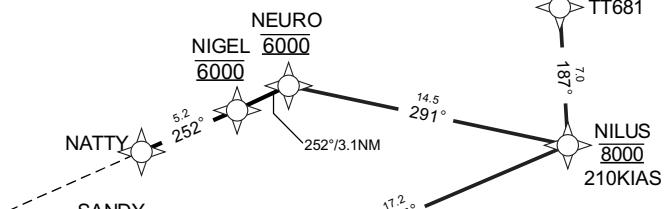
Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

VAR 8° W



POLIX R ARRIVAL



VOR/DME HANEDA  
112.2 HME  
CH-59X  
35°33'44"N/139°45'40"E  
100FT

CHANGE : PROC course. HLDG pattern at NEURO.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX L ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to SNARE at 6000FT, to SACHS, to SANDY.

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	POLIX	—	—	-7.9	—	—	FL150	—	—	RNAV1
002	TF	GODIN	—	335 (327.2)	-7.9	14.1	—	—	—	—	RNAV1
003	TF	NOVEL	—	264 (256.4)	-7.9	14.0	—	8000	210	—	RNAV1
004	TF	NAMCO	—	178 (169.8)	-7.9	10.7	—	—	—	—	RNAV1
005	TF	TT680	—	138 (129.7)	-7.9	7.0	—	—	—	—	RNAV1
006	TF	TT681	—	162 (154.3)	-7.9	5.4	—	—	—	—	RNAV1
007	TF	NILUS	—	187 (178.9)	-7.9	7.0	—	8000	210	—	RNAV1
008	TF	SNARE	—	255 (247.0)	-7.9	17.2	—	6000	—	—	RNAV1
009	TF	SACHS	—	297 (289.0)	-7.9	3.4	—	—	—	—	RNAV1
010	TF	SANDY	—	288 (280.0)	-7.9	3.8	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX R ARRIVAL

From POLIX at FL150, to GODIN, to NOVEL at 8000FT, to NAMCO, to TT680, to TT681, to NILUS at 8000FT, to NEURO at 6000FT, to NIGEL at 6000FT, to NATTY.

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	POLIX	–	–	-7.9	–	–	FL150	–	–	RNAV1
002	TF	GODIN	–	335 (327.2)	-7.9	14.1	–	–	–	–	RNAV1
003	TF	NOVEL	–	264 (256.4)	-7.9	14.0	–	8000	210	–	RNAV1
004	TF	NAMCO	–	178 (169.8)	-7.9	10.7	–	–	–	–	RNAV1
005	TF	TT680	–	138 (129.7)	-7.9	7.0	–	–	–	–	RNAV1
006	TF	TT681	–	162 (154.3)	-7.9	5.4	–	–	–	–	RNAV1
007	TF	NILUS	–	187 (178.9)	-7.9	7.0	–	8000	210	–	RNAV1
008	TF	NEURO	–	291 (282.9)	-7.9	14.5	–	6000	–	–	RNAV1
009	TF	NIGEL	–	252 (244.1)	-7.9	3.1	–	6000	–	–	RNAV1
010	TF	NATTY	–	252 (244.1)	-7.9	5.2	–	–	–	–	RNAV1

CHANGE : PROC course. VAR. HLDG pattern at NEURO.

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	–	L	11000	–	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	291 (282.9)	-7.9	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

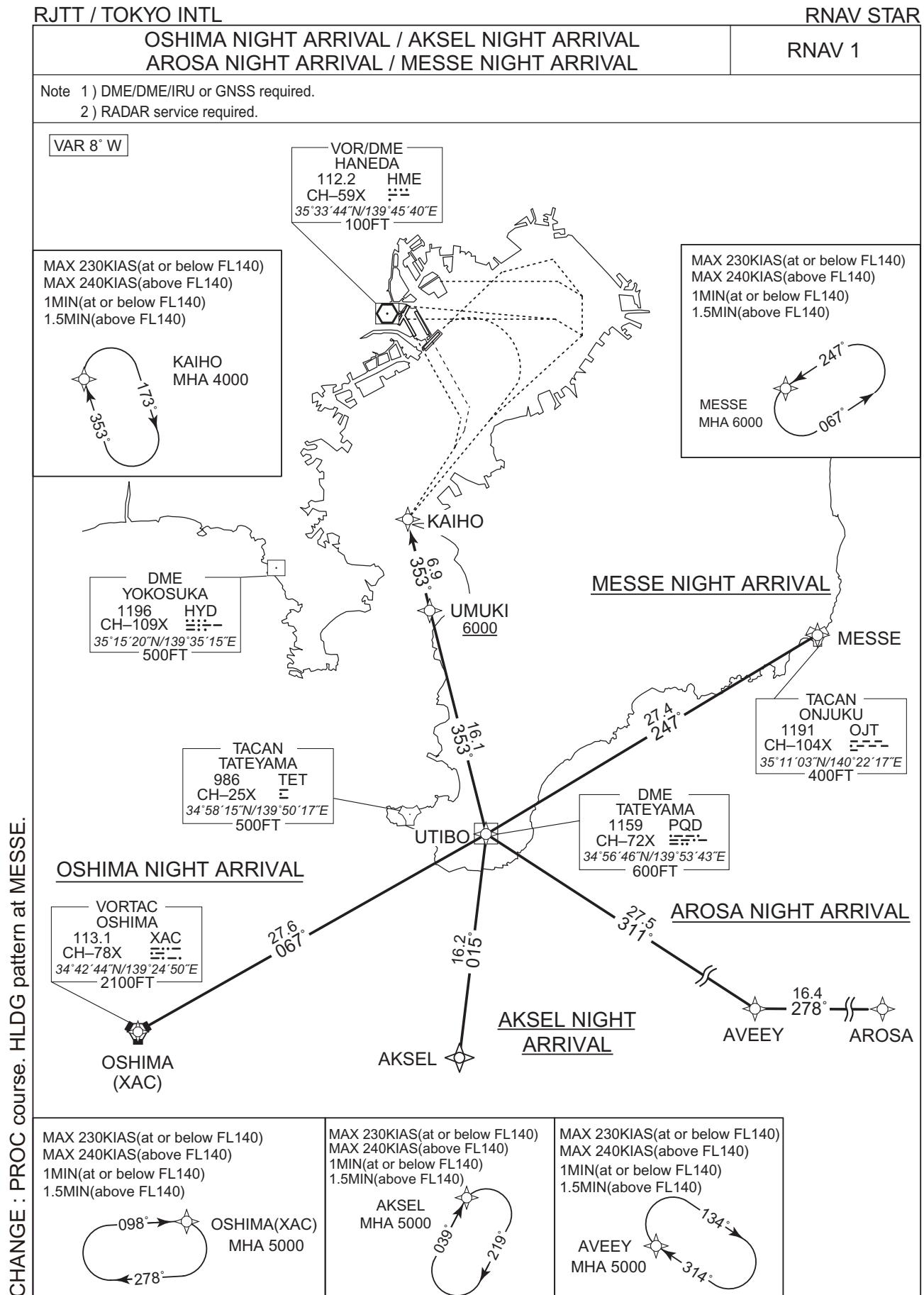
RNAV STAR RWY16L/16R

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
GODIN	362425.3N / 1401655.9E	POLIX	361237.1N / 1402622.5E
NAMCO	361035.1N / 1400226.3E	SACHS	354838.2N / 1394838.4E
NATTY	355350.9N / 1394531.3E	SANDY	354917.5N / 1394402.8E
NEURO	355727.6N / 1395441.3E	SNARE	354731.1N / 1395238.1E
NIGEL	355607.5N / 1395117.8E	TT680	360608.2N / 1400904.0E
NILUS	355415.2N / 1401208.8E	TT681	360113.8N / 1401158.7E
NOVEL	362106.9N / 1400004.9E		

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA NIGHT ARRIVAL

From XAC, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

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	XAC	—	—	-7.9	—	—	—	—	—	RNAV1
002	TF	UTIBO	—	067 (059.2)	-7.9	27.6	—	—	—	—	RNAV1
003	TF	UMUKI	—	353 (345.5)	-7.9	16.1	—	+6000	—	—	RNAV1
004	TF	KAIHO	—	353 (345.5)	-7.9	6.9	—	—	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL NIGHT ARRIVAL

From AKSEL, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

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	AKSEL	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	015 (006.6)	-7.9	16.2	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA NIGHT ARRIVAL

From AROSA, to AVEEY, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	-	-	-	RNAV1
003	TF	UTIBO	-	311 (302.8)	-7.9	27.5	-	-	-	-	RNAV1
004	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
005	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE NIGHT ARRIVAL

From MESSE, to UTIBO, to UMUKI at or above 6000FT, to KAIHO.

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	MESSE	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	247 (238.8)	-7.9	27.4	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	-	-	-	RNAV1

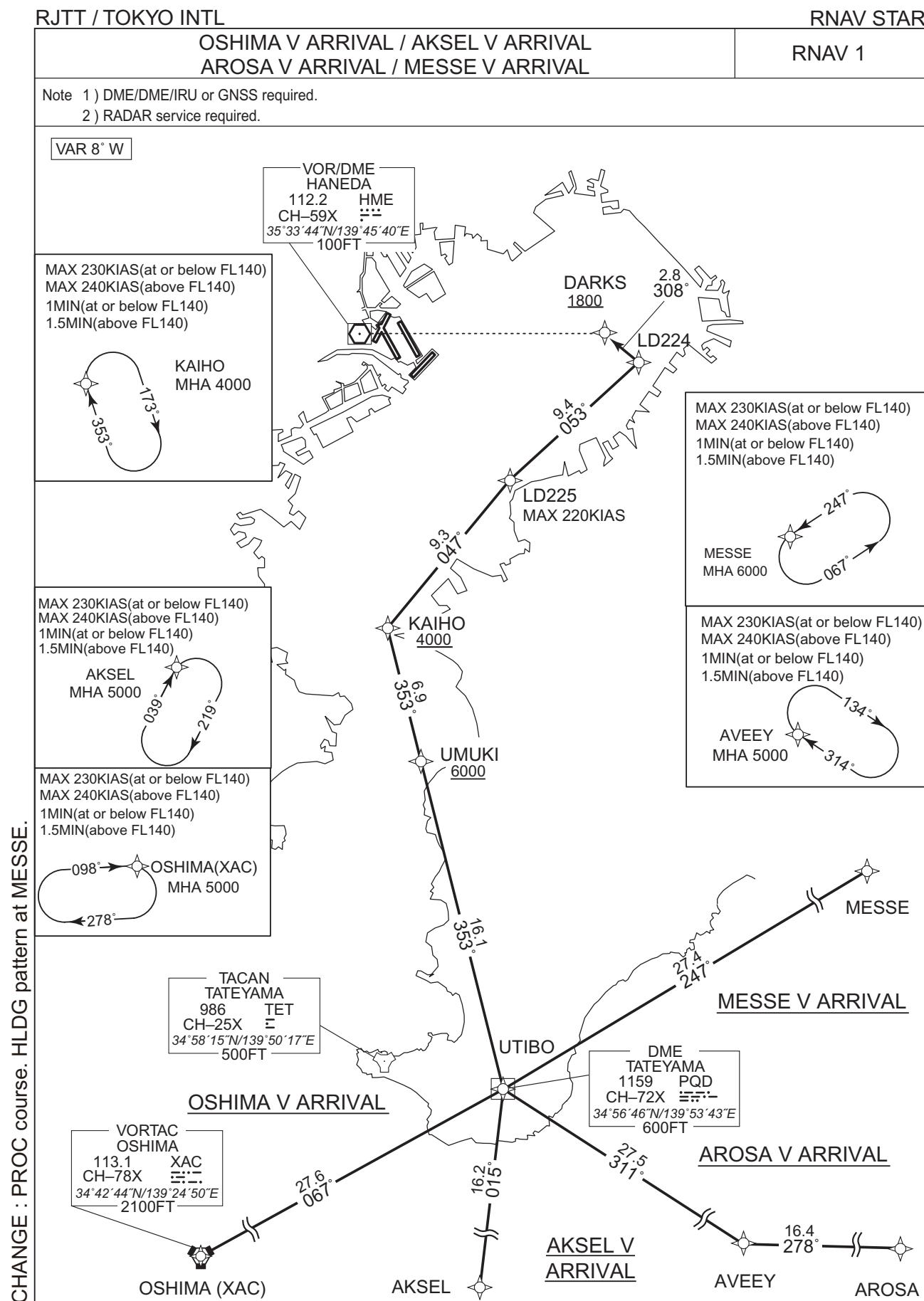
Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MESSE	247 (238.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course, VAR, HLDG pattern at MESSE.

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	MESSE	351100.8N / 1402214.7E
AROSA	344201.7N / 1404157.3E	UMUKI	351219.1N / 1394849.2E
AVEEY	344155.9N / 1402158.0E	UTIBO	345647.0N / 1395343.9E
KAIHO	351857.8N / 1394642.4E	XAC	344244.1N / 1392450.5E

## STANDARD ARRIVAL CHART-INSTRUMENT



## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA V ARRIVAL

From XAC, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

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	XAC	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	067 (059.2)	-7.9	27.6	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	047 (038.8)	-7.9	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	053 (044.8)	-7.9	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	308 (299.8)	-7.9	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL V ARRIVAL

From AKSEL, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

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	AKSEL	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	015 (006.6)	-7.9	16.2	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	047 (038.8)	-7.9	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	053 (044.8)	-7.9	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	308 (299.8)	-7.9	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA V ARRIVAL

From AROSA, to AVEEY, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

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	AROSA	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	278 (269.8)	-7.9	16.4	-	-	-	-	RNAV1
003	TF	UTIBO	-	311 (302.8)	-7.9	27.5	-	-	-	-	RNAV1
004	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
005	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	+4000	-	-	RNAV1
006	TF	LD225	-	047 (038.8)	-7.9	9.3	-	-	-220	-	RNAV1
007	TF	LD224	-	053 (044.8)	-7.9	9.4	-	-	-	-	RNAV1
008	TF	DARKS	-	308 (299.8)	-7.9	2.8	-	+1800	-	-	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : PROC course. VAR.

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE V ARRIVAL

From MESSE, to UTIBO, to UMUKI at or above 6000FT, to KAIHO at or above 4000FT, to LD225, to LD224, to DARKS at or above 1800FT.

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	MESSE	-	-	-7.9	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	247 (238.8)	-7.9	27.4	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.9	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.9	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	047 (038.8)	-7.9	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	053 (044.8)	-7.9	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	308 (299.8)	-7.9	2.8	-	+1800	-	-	RNAV1

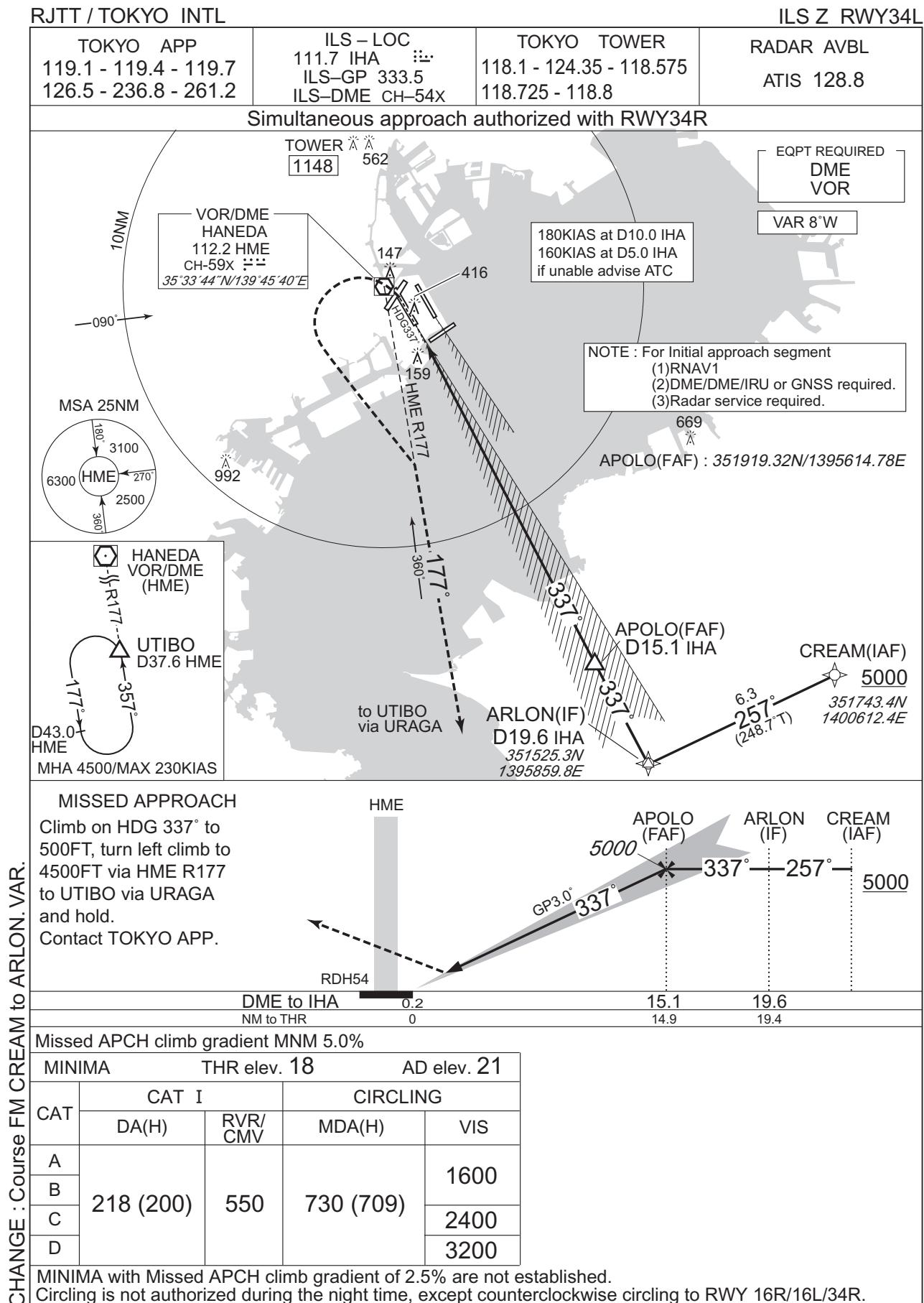
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Hold	MESSE	247 (238.8)	-7.9	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	LD225	352614.1N / 1395353.4E
AROSA	344201.7N / 1404157.3E	MESSE	351100.8N / 1402214.7E
AVEEY	344155.9N / 1402158.0E	UMUKI	351219.1N / 1394849.2E
DARKS	353414.8N / 1395902.9E	UTIBO	345647.0N / 1395343.9E
KAIHO	351857.8N / 1394642.4E	XAC	344244.1N / 1392450.5E
LD224	353252.5N / 1400200.0E		

CHANGE : PROC course. VAR. HLDG pattern at MESSE.

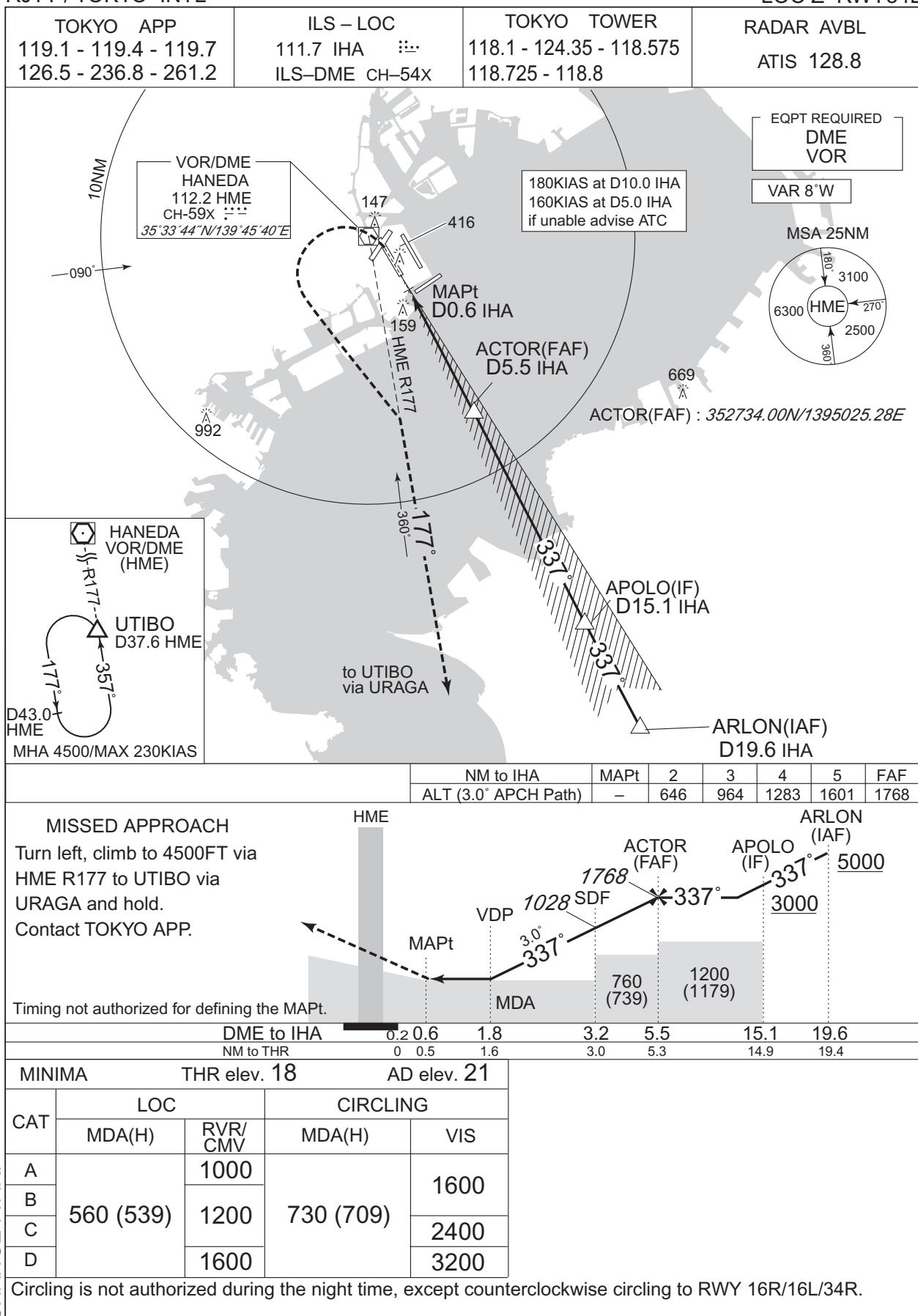
INSTRUMENT APPROACH CHART



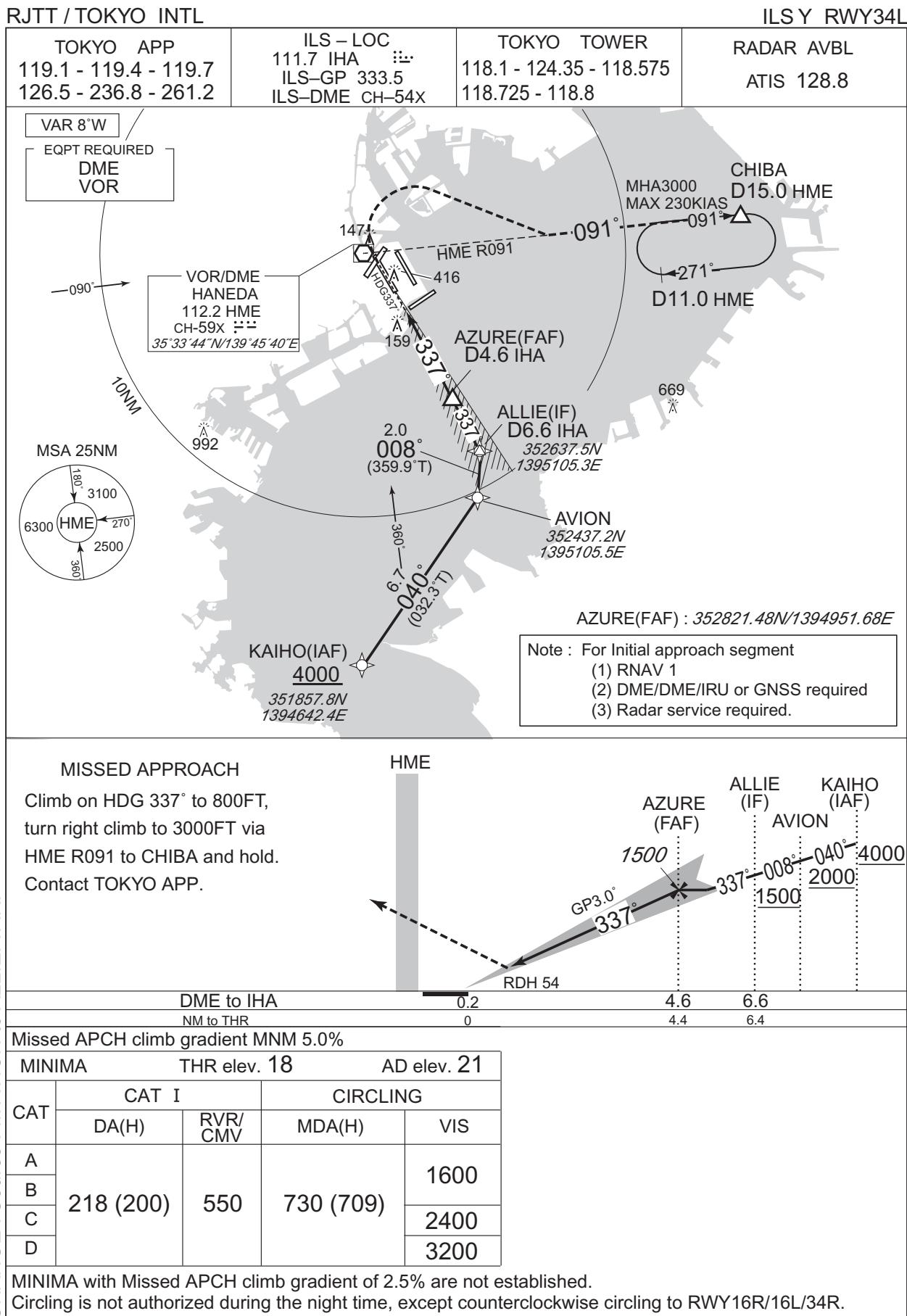
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RJTT / TOKYO INTL

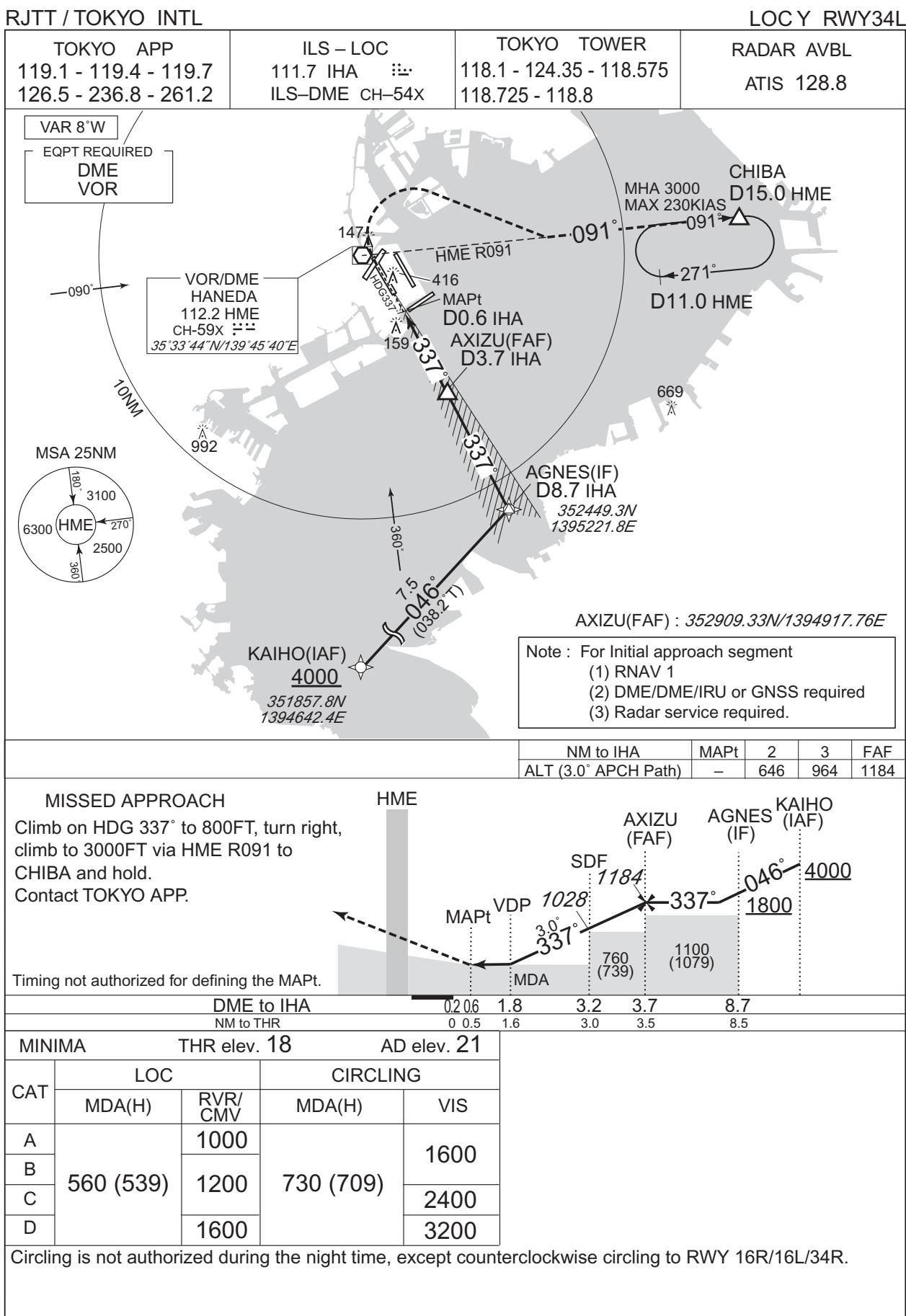
LOC Z RWY34L



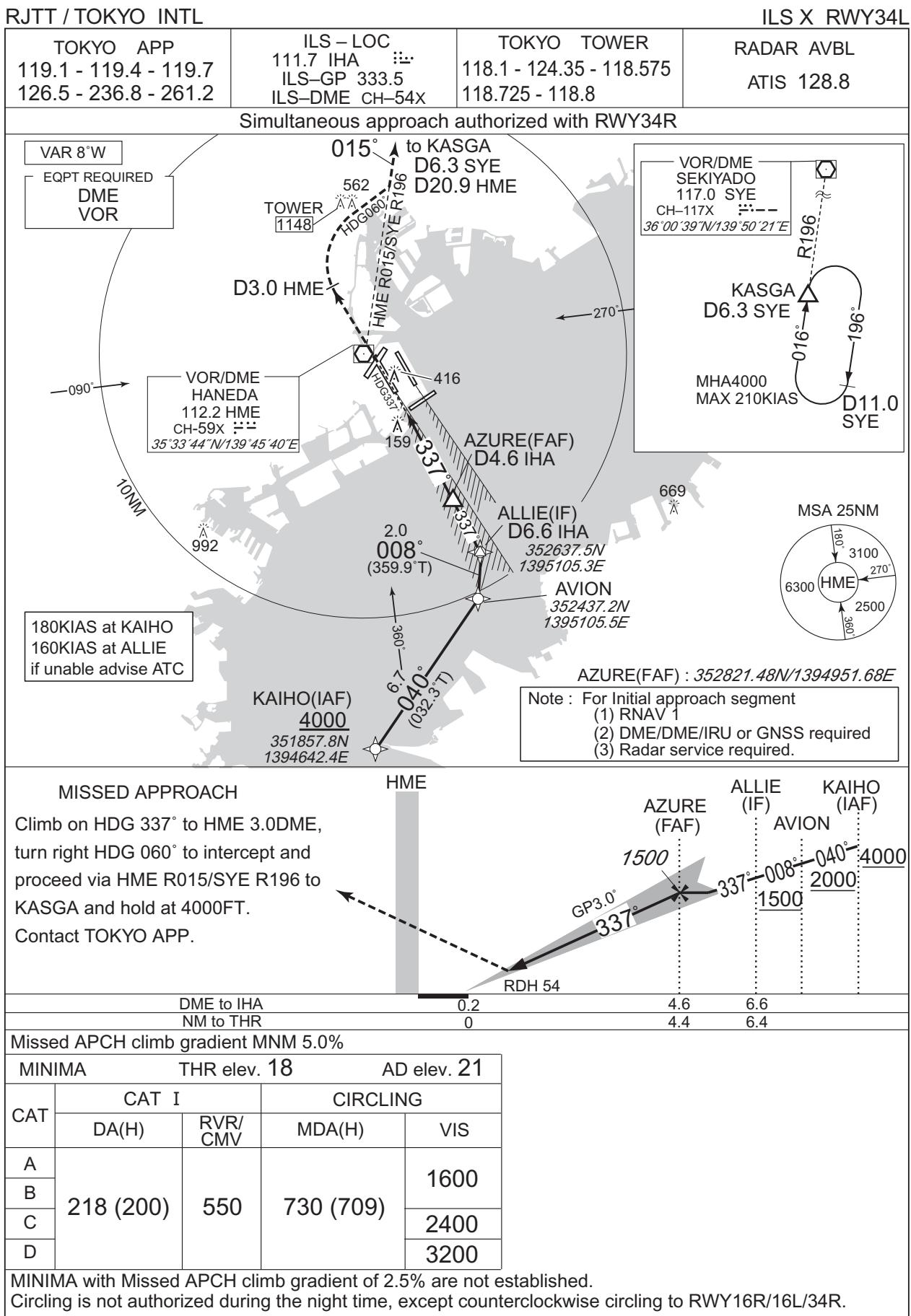
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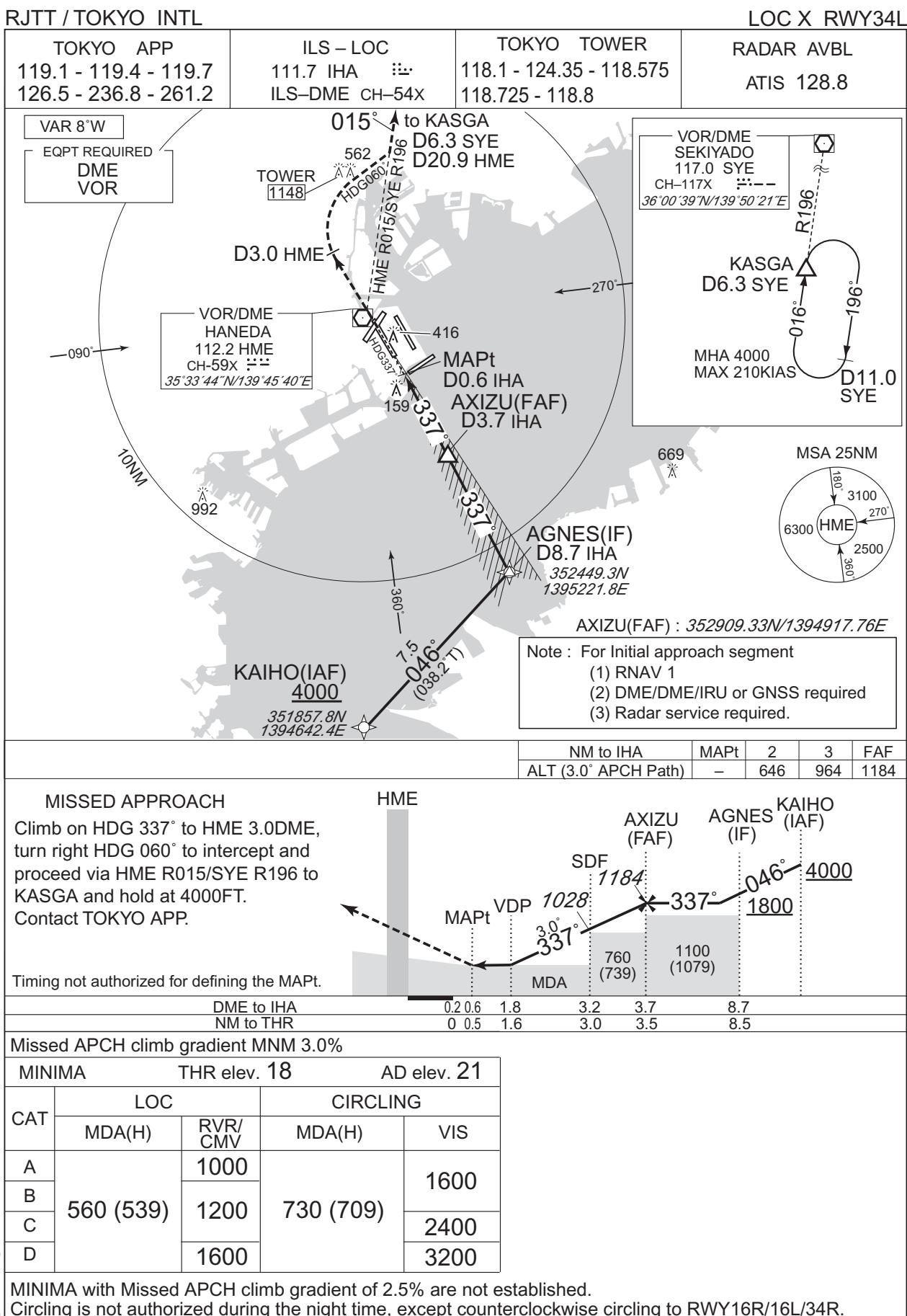
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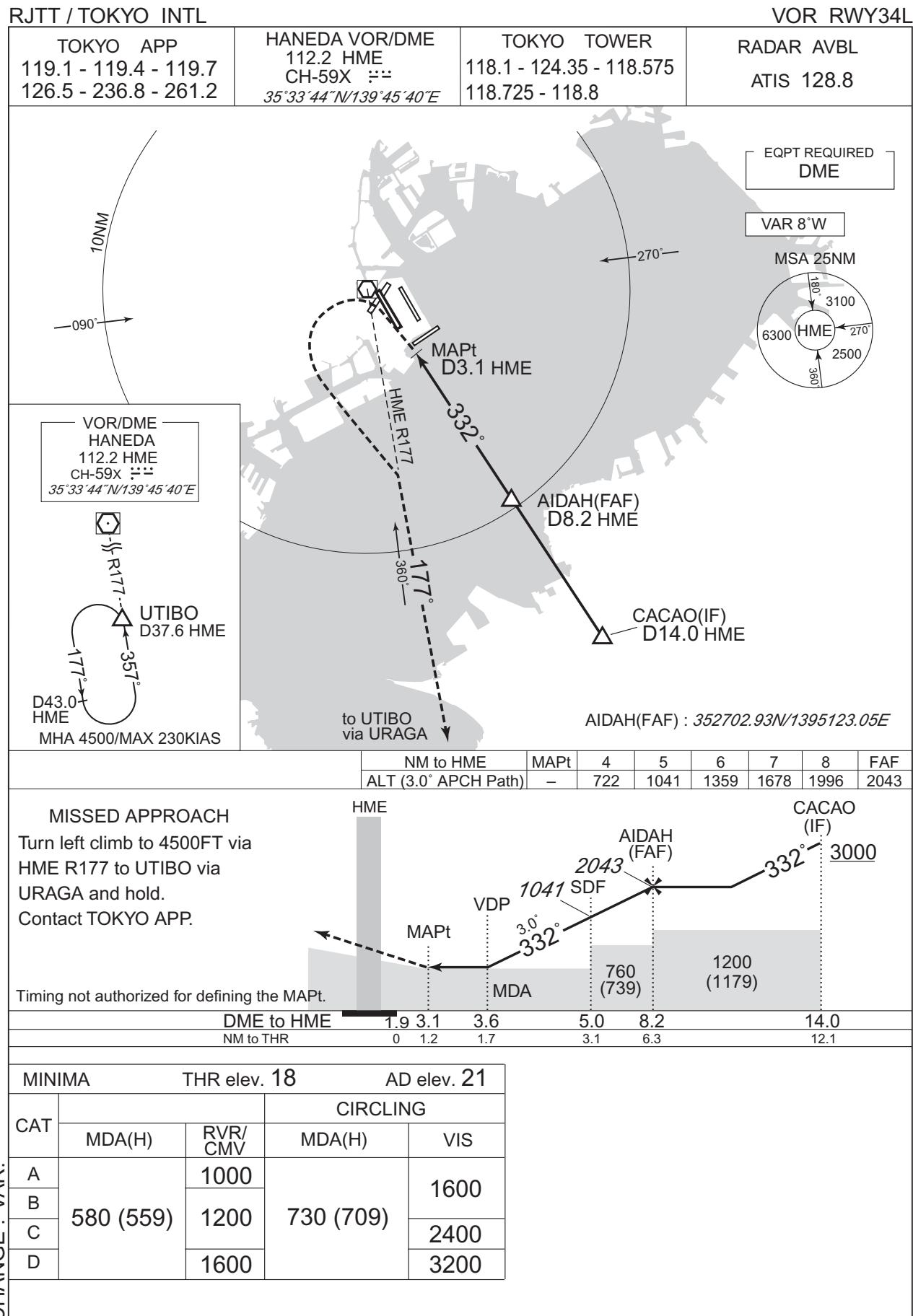
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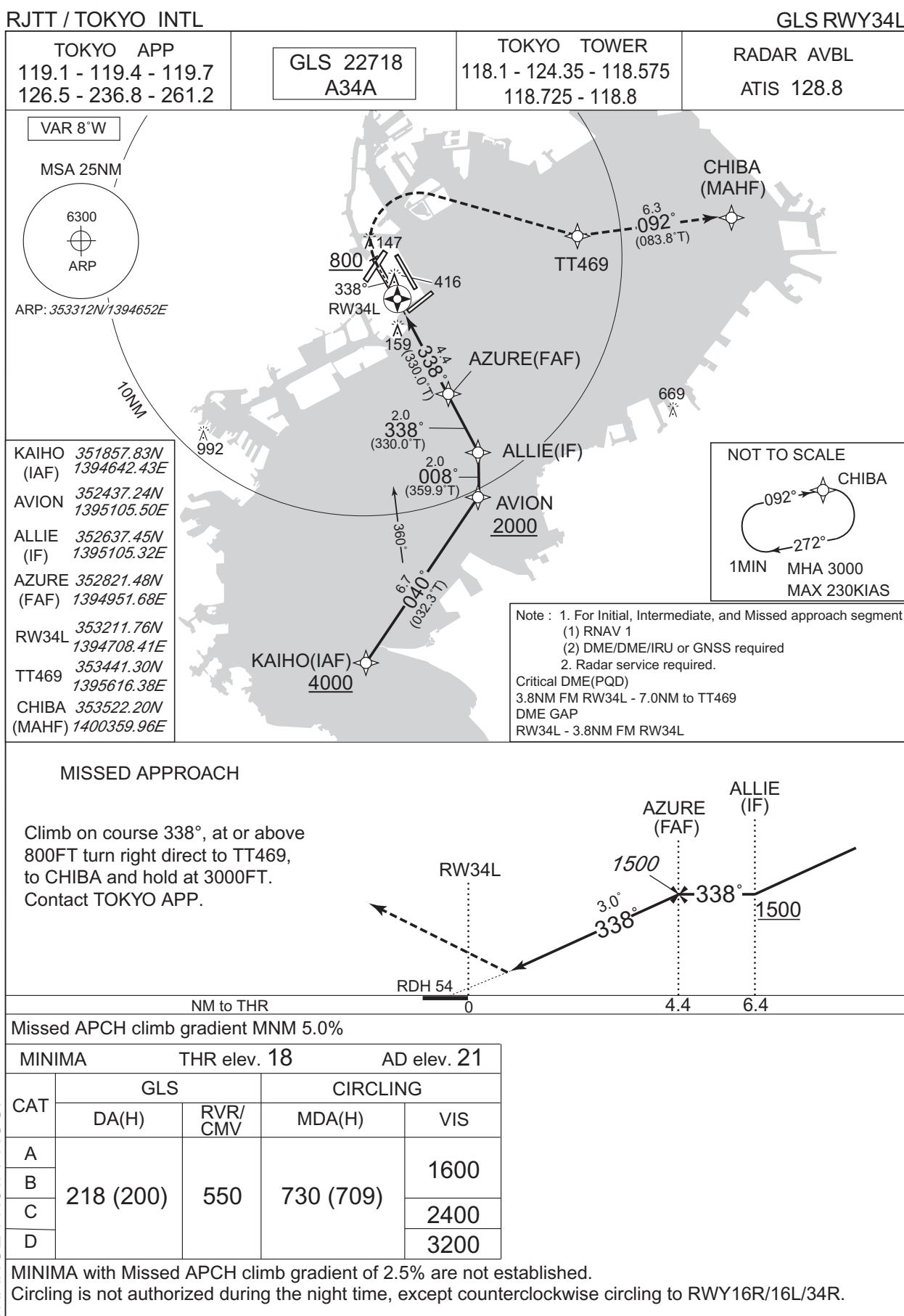
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INSTRUMENT APPROACH CHART



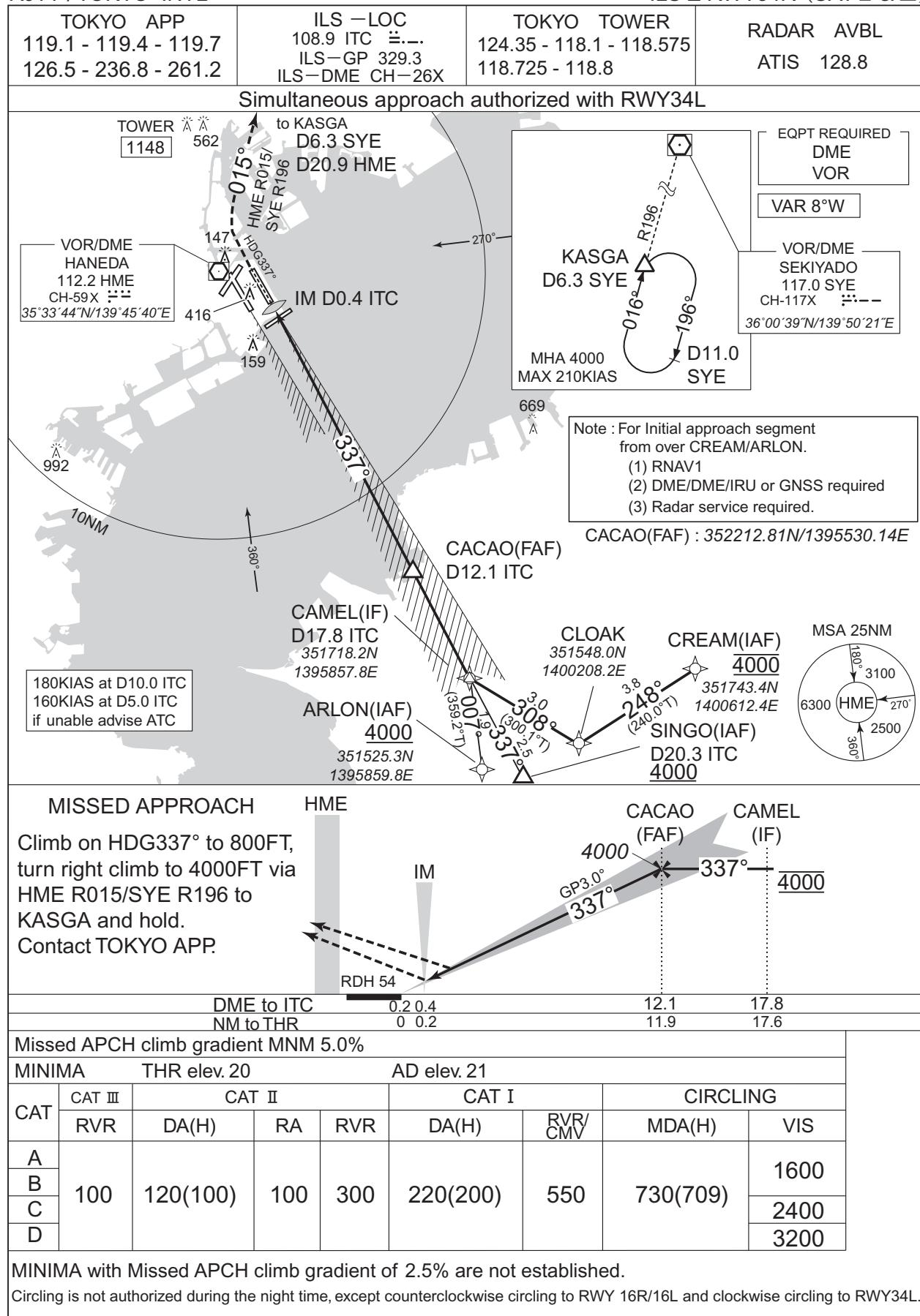
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INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

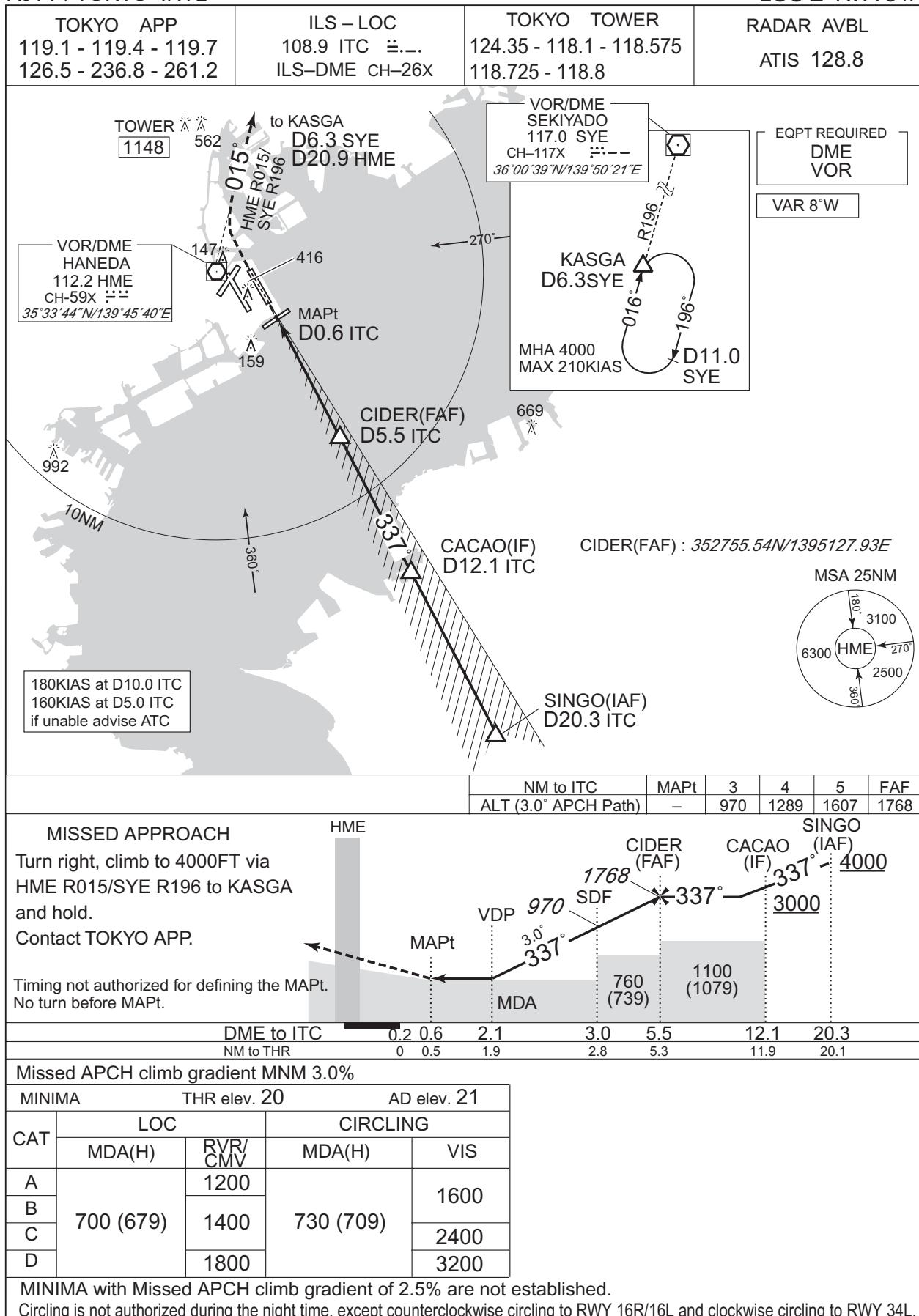
ILS Z RWY34R (CAT II & III)



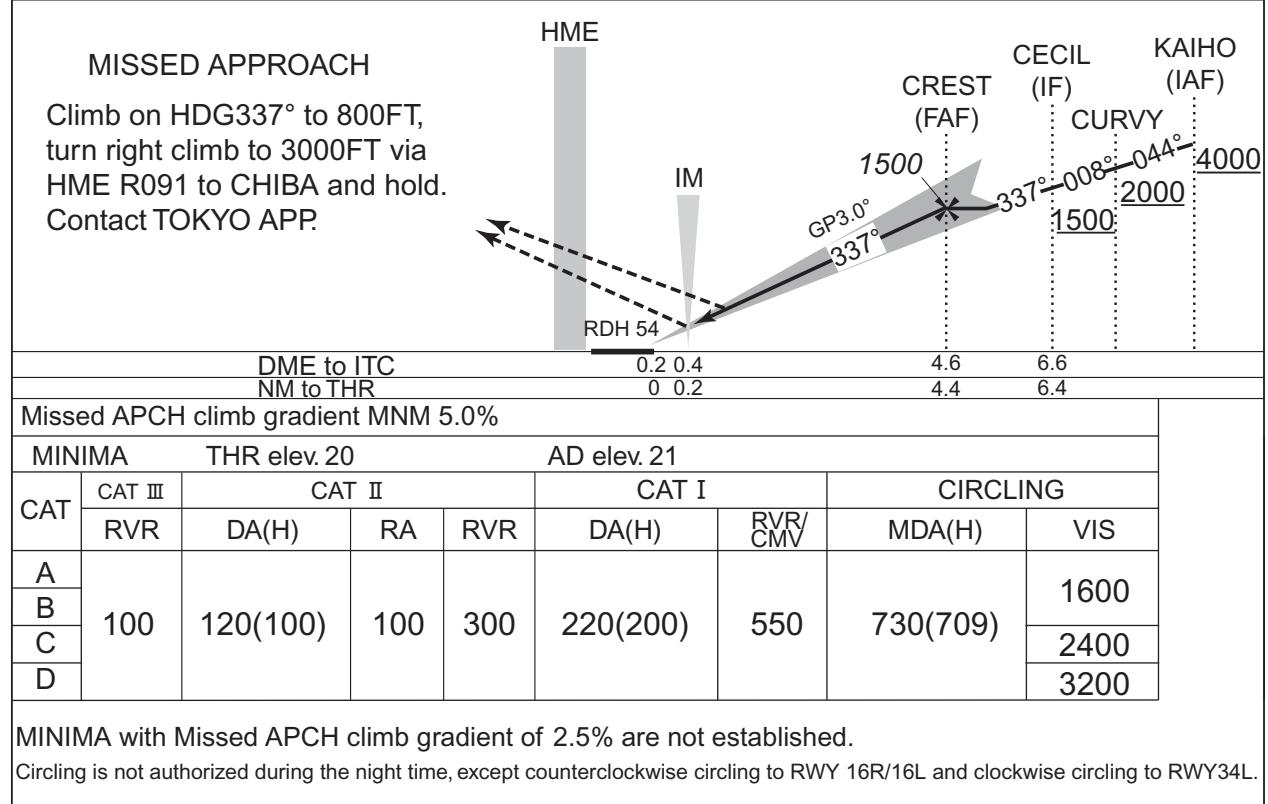
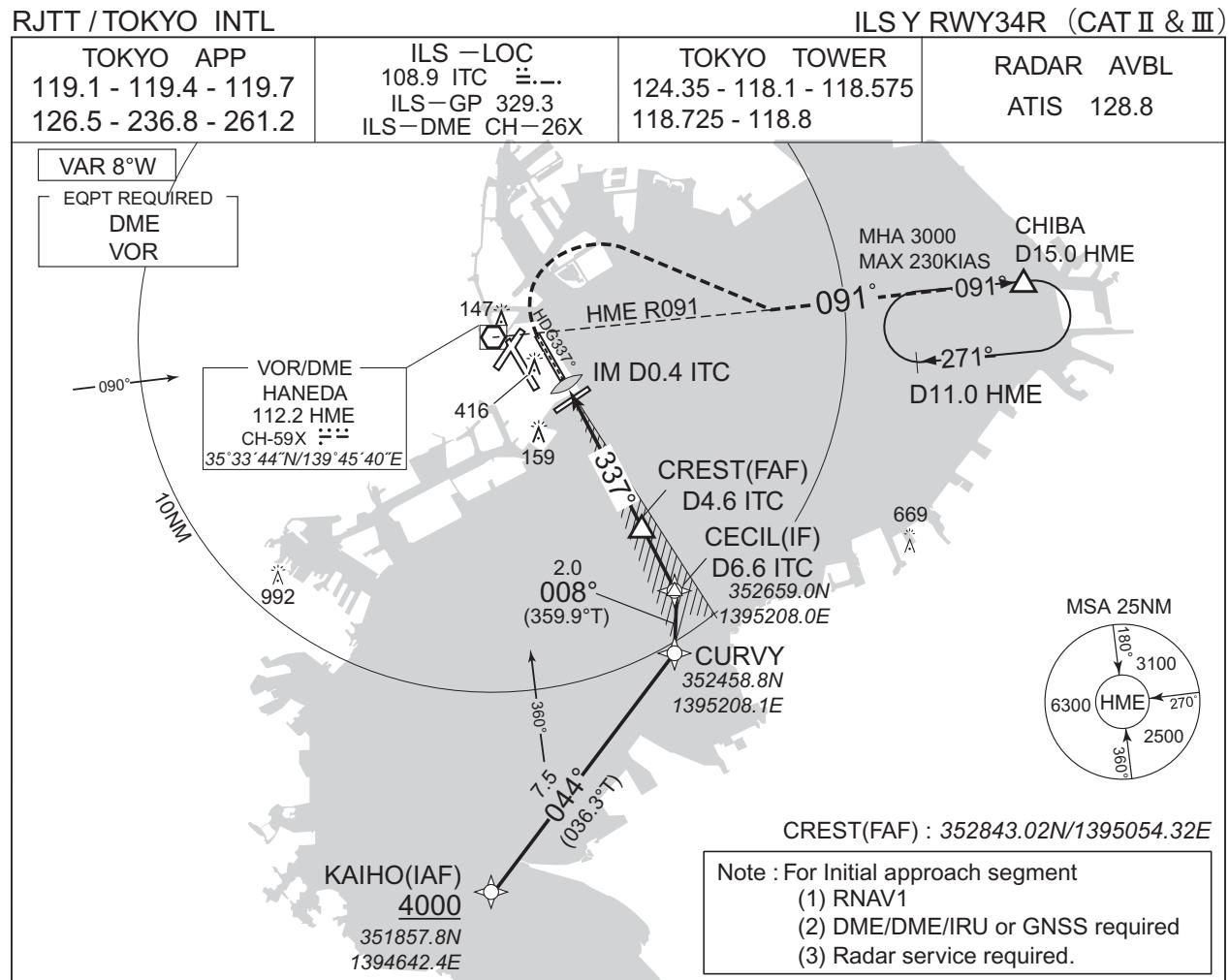
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RJTT / TOKYO INTL

LOC Z RWY34R



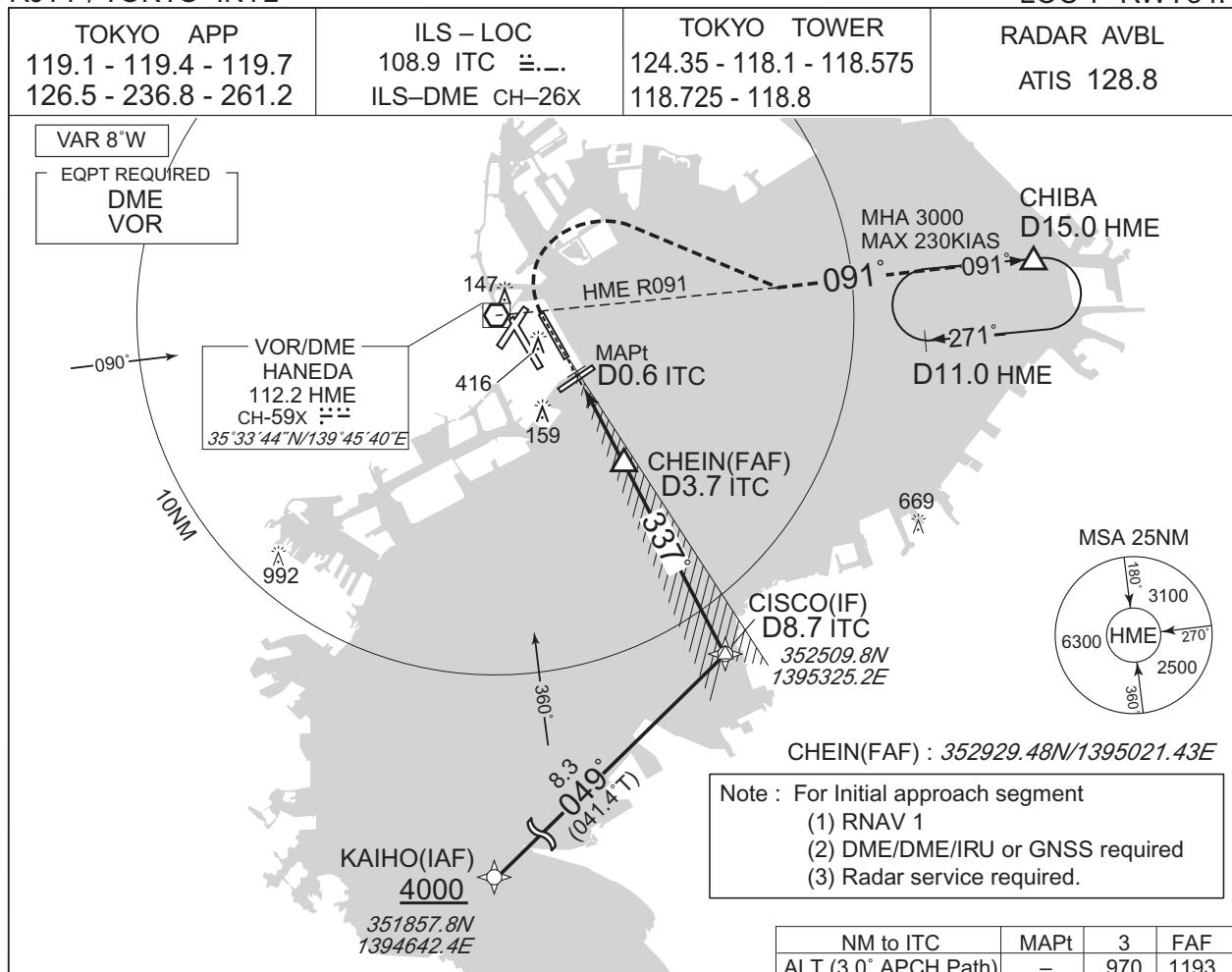
INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

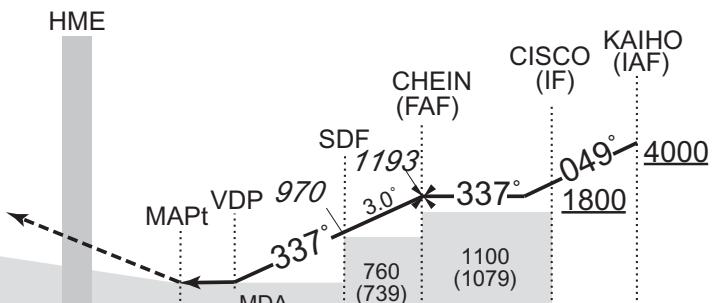
LOC Y RWY34R



## MISSSED APPROACH

Turn right, climb to 3000FT via HME R091 to CHIBA and hold. Contact TOKYO APP.

Timing not authorized for defining the MAPt.  
No turn before MAPt.

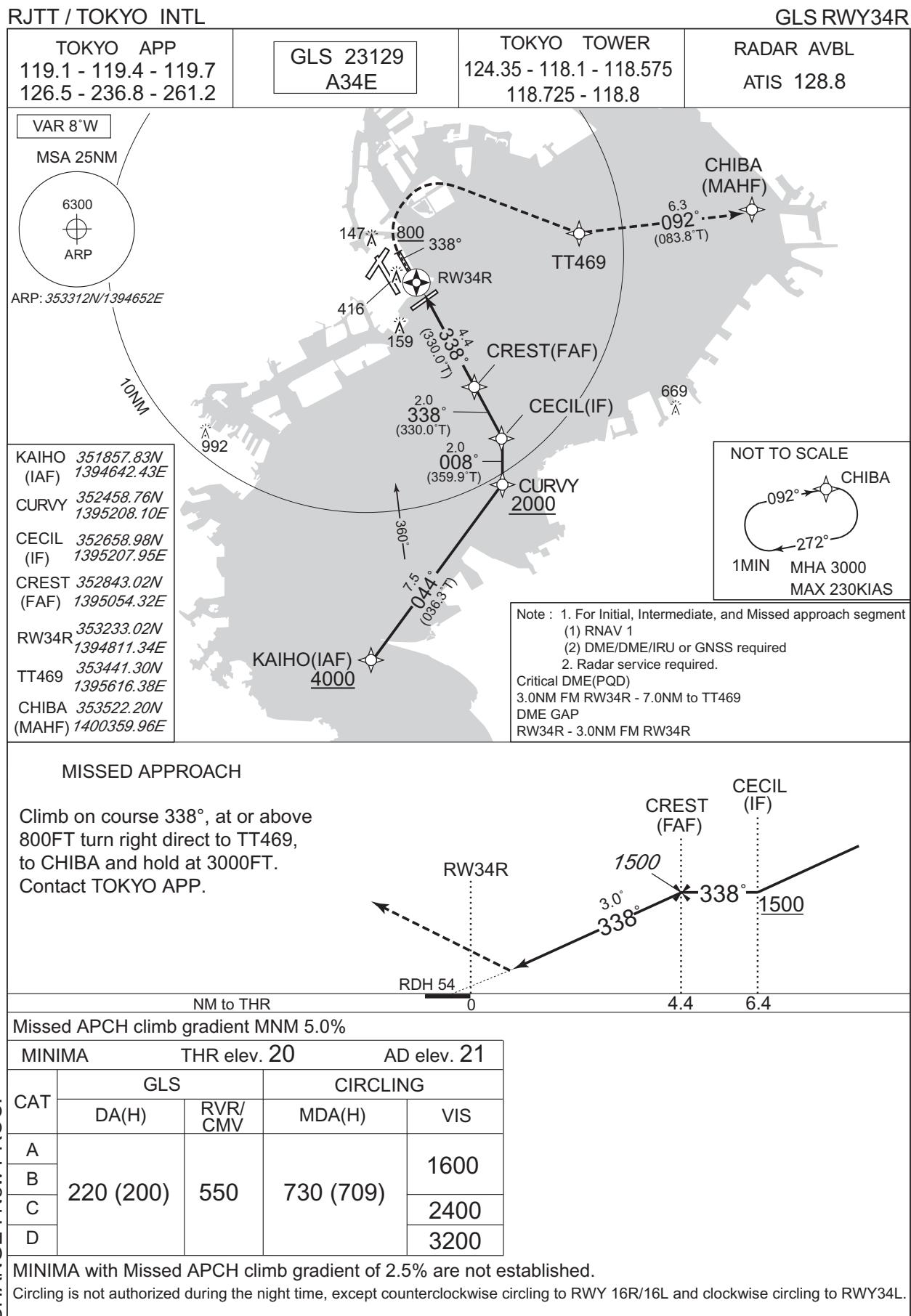


DME to ITC	0.2	0.6	2.1	3.0	3.7	8.7
NM to THR	0	0.5	1.9	2.8	3.5	8.5

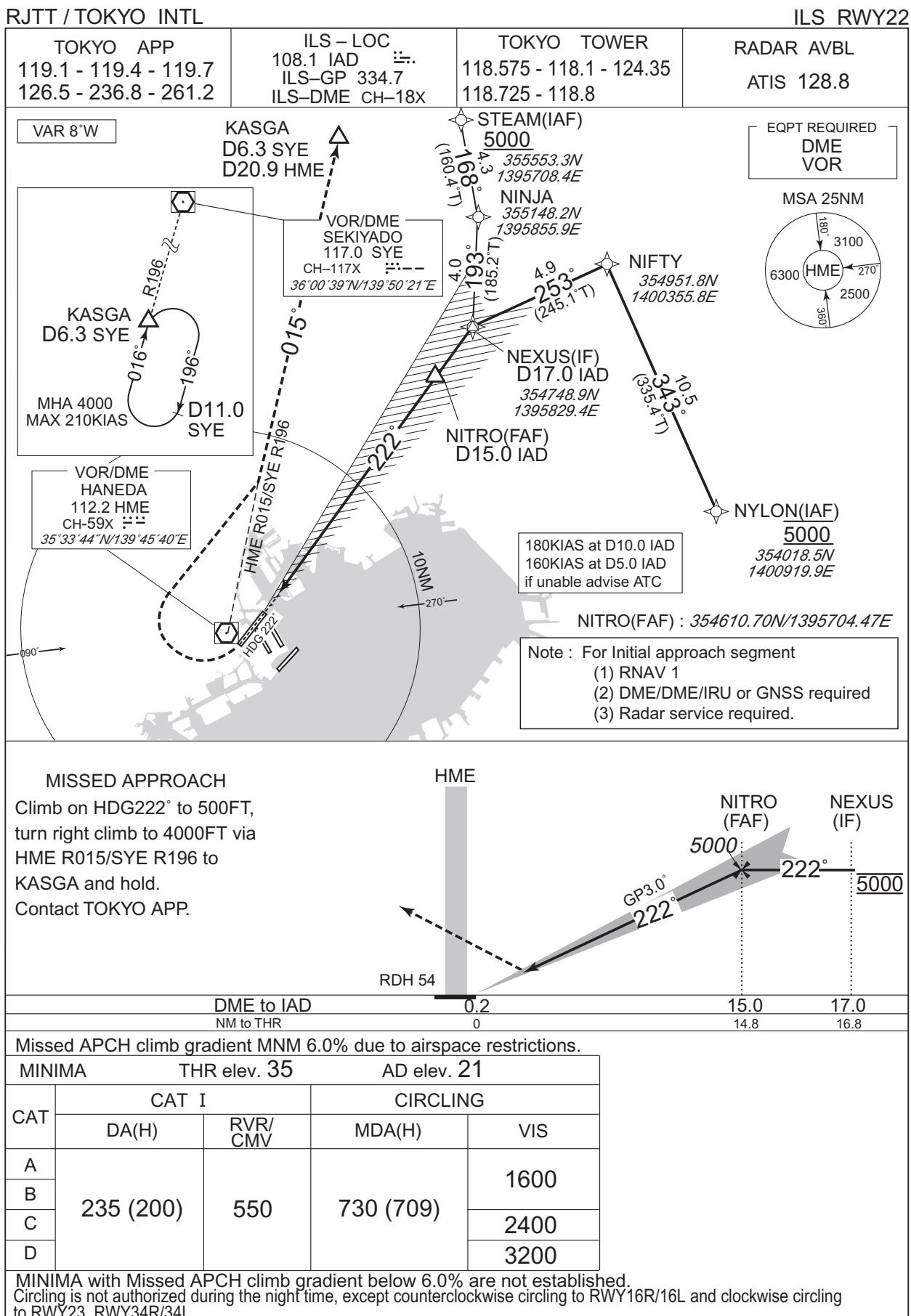
MINIMA		THR elev. 20	AD elev. 21	
CAT	LOC		CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	1200		1600	
B	700 (679)	1400	2400	
C			3200	
D	1800			

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY 34L.

INSTRUMENT APPROACH CHART

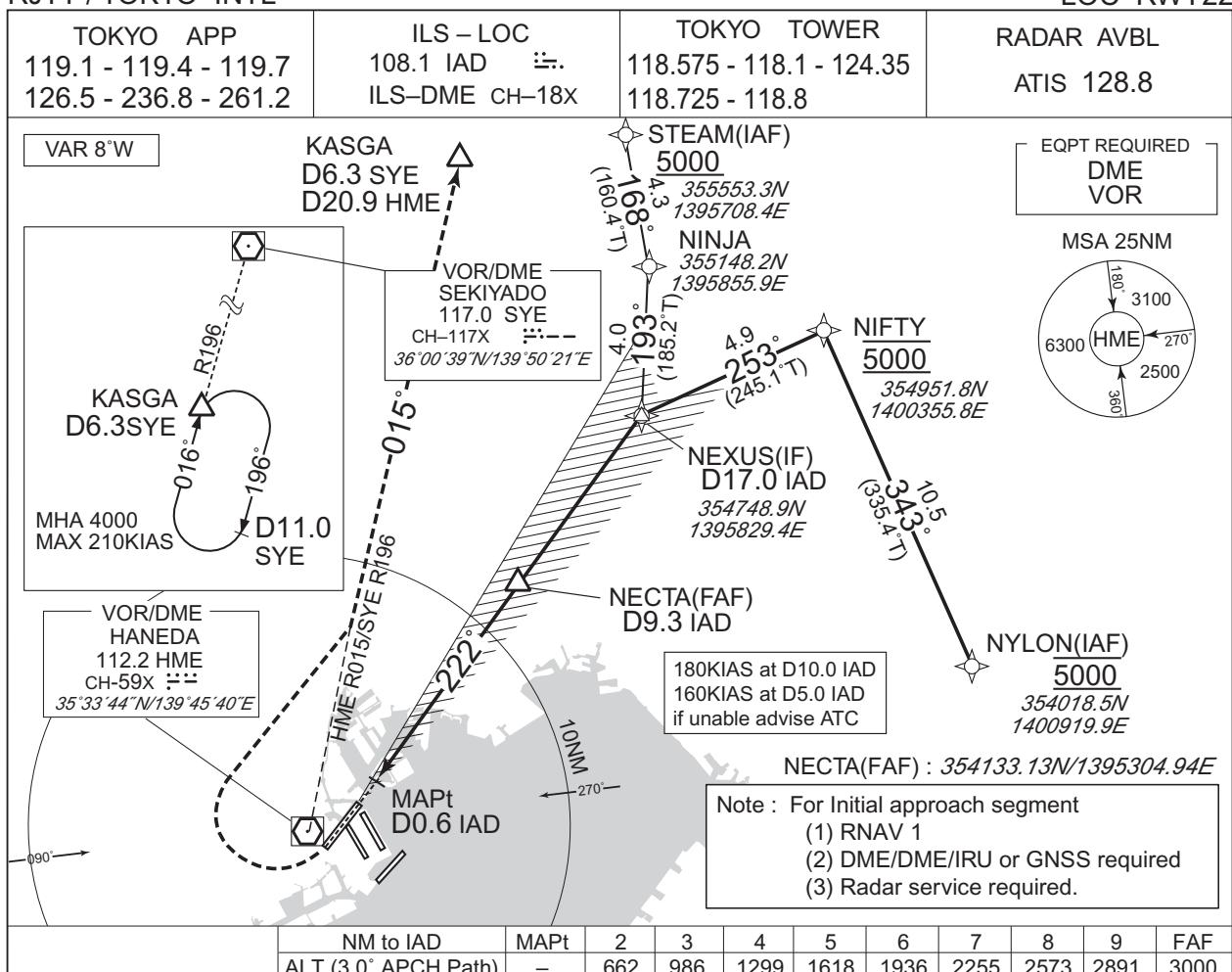


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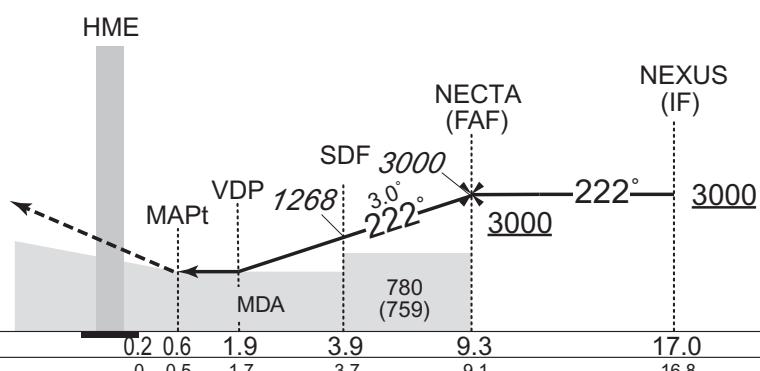
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL



MISSSED APPROACH

Turn right, climb to 4000FT via HME  
R015 /SYE R196 to KASGA and hold.  
Contact TOKYO APP.



Timing not authorized for defining the MAPt.  
No turn before MAPt.

Missed APCH climb gradient MNM 4.0%

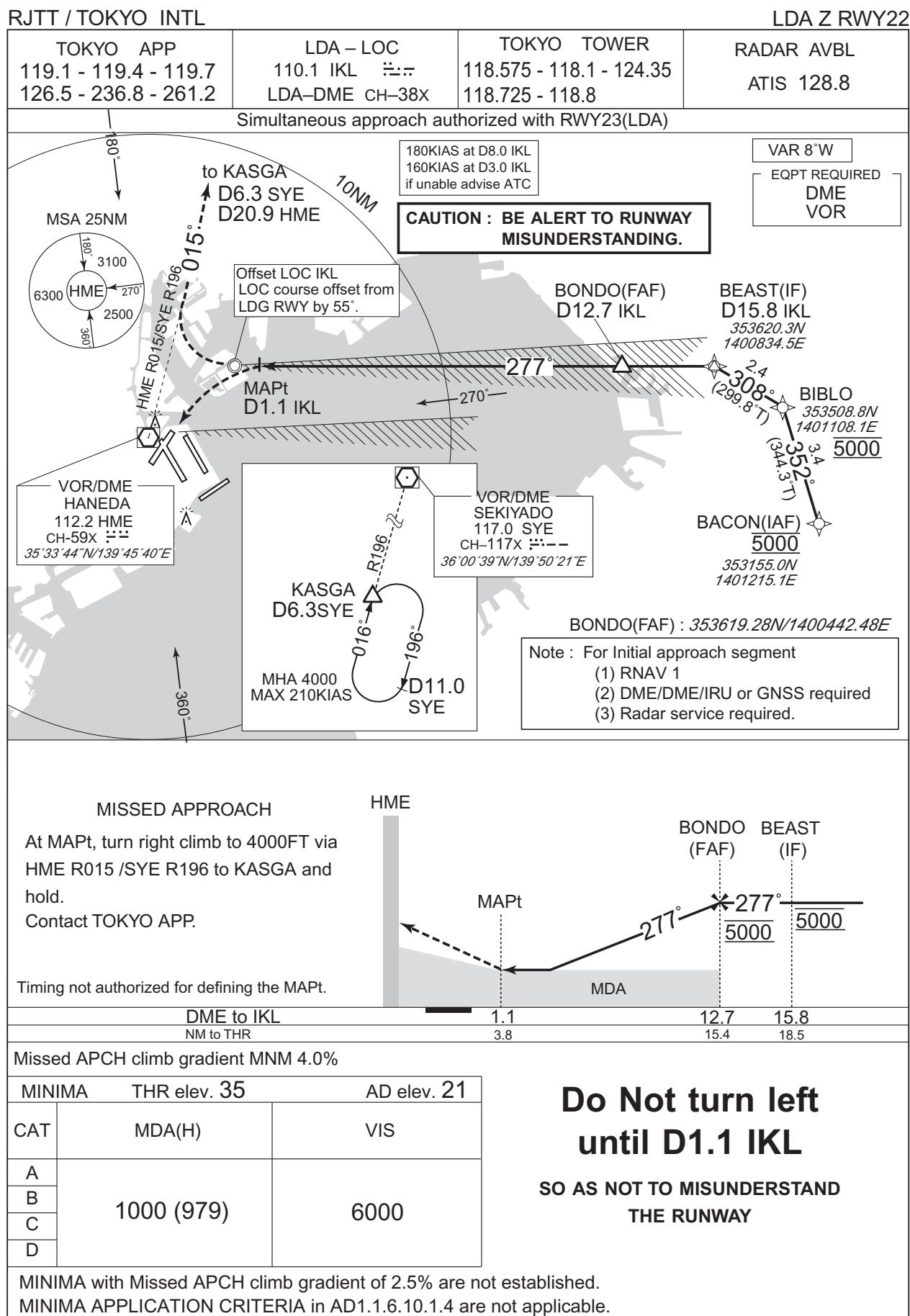
MINIMA THR elev. 35 AD elev. 21

CAT	LOC		CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	1000			1600
B	600 (579)	1200	730 (709)	2400
C				3200
D	1600			

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

Circling is not authorized during the night time, except counterclockwise circling to RWY16R/16L and clockwise circling to RWY23, RWY34R/34L.

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

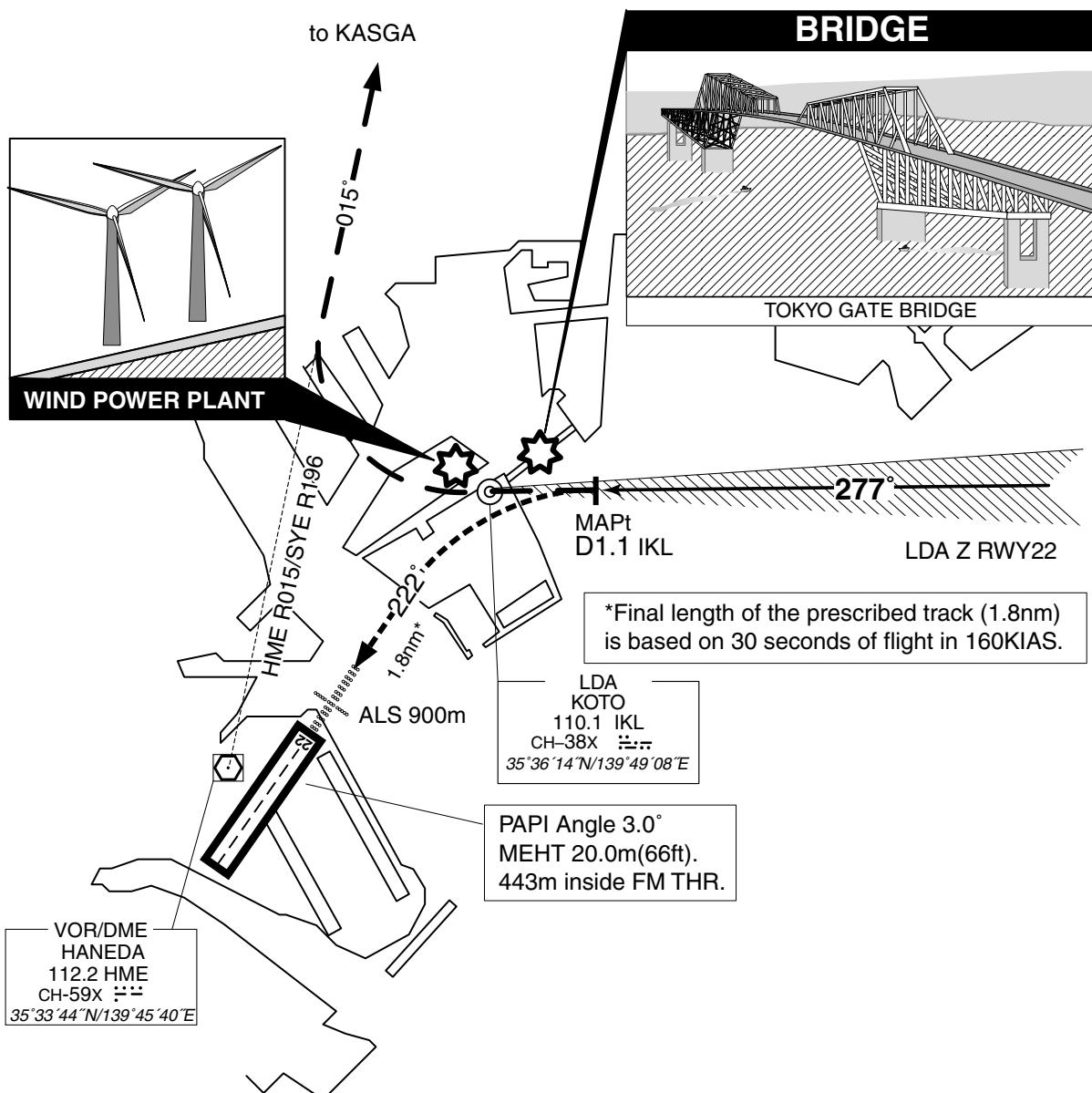
RJTT / TOKYO INTL

LDA Z RWY22

Visual Prescribed Track for LDA Z RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

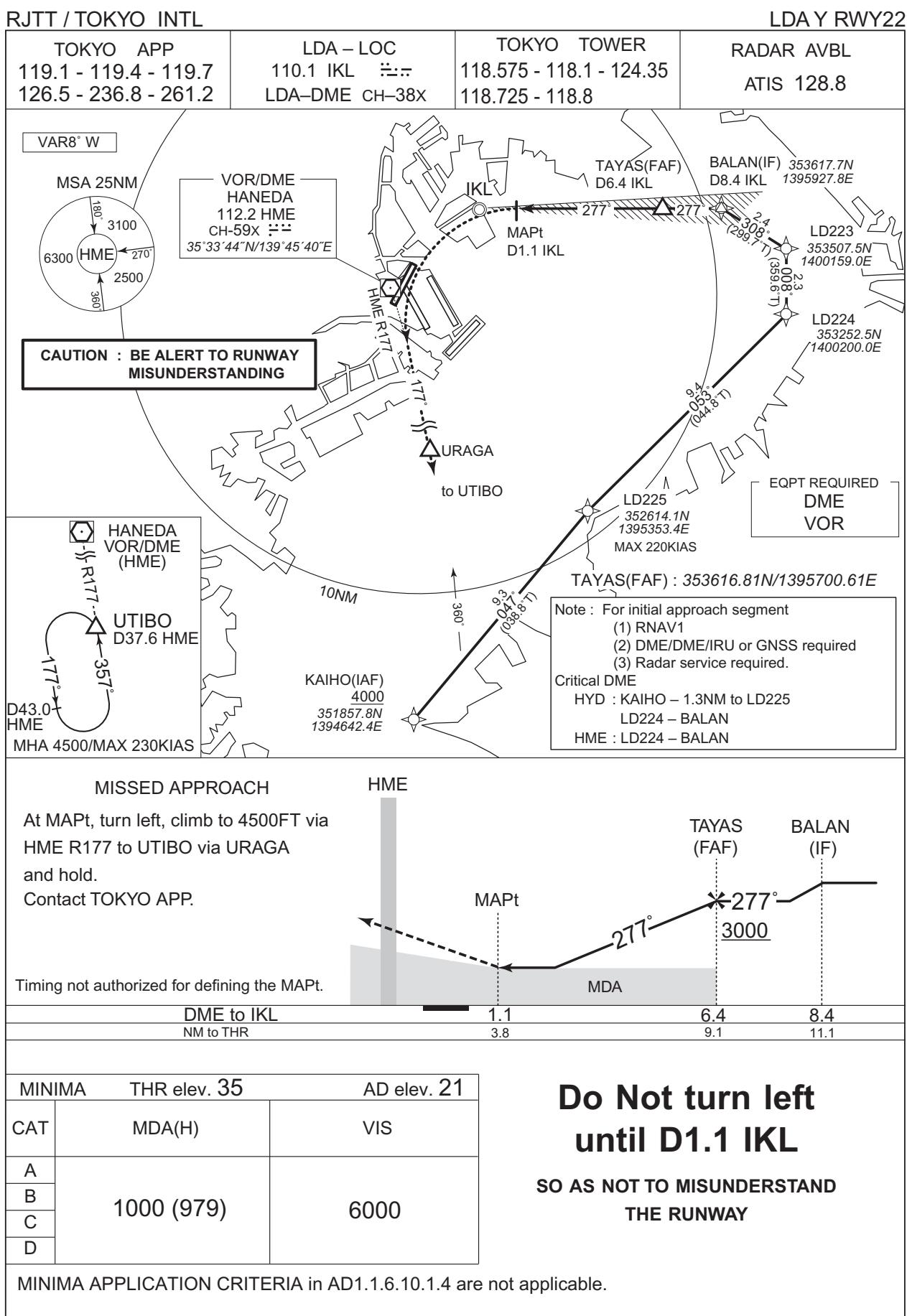
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

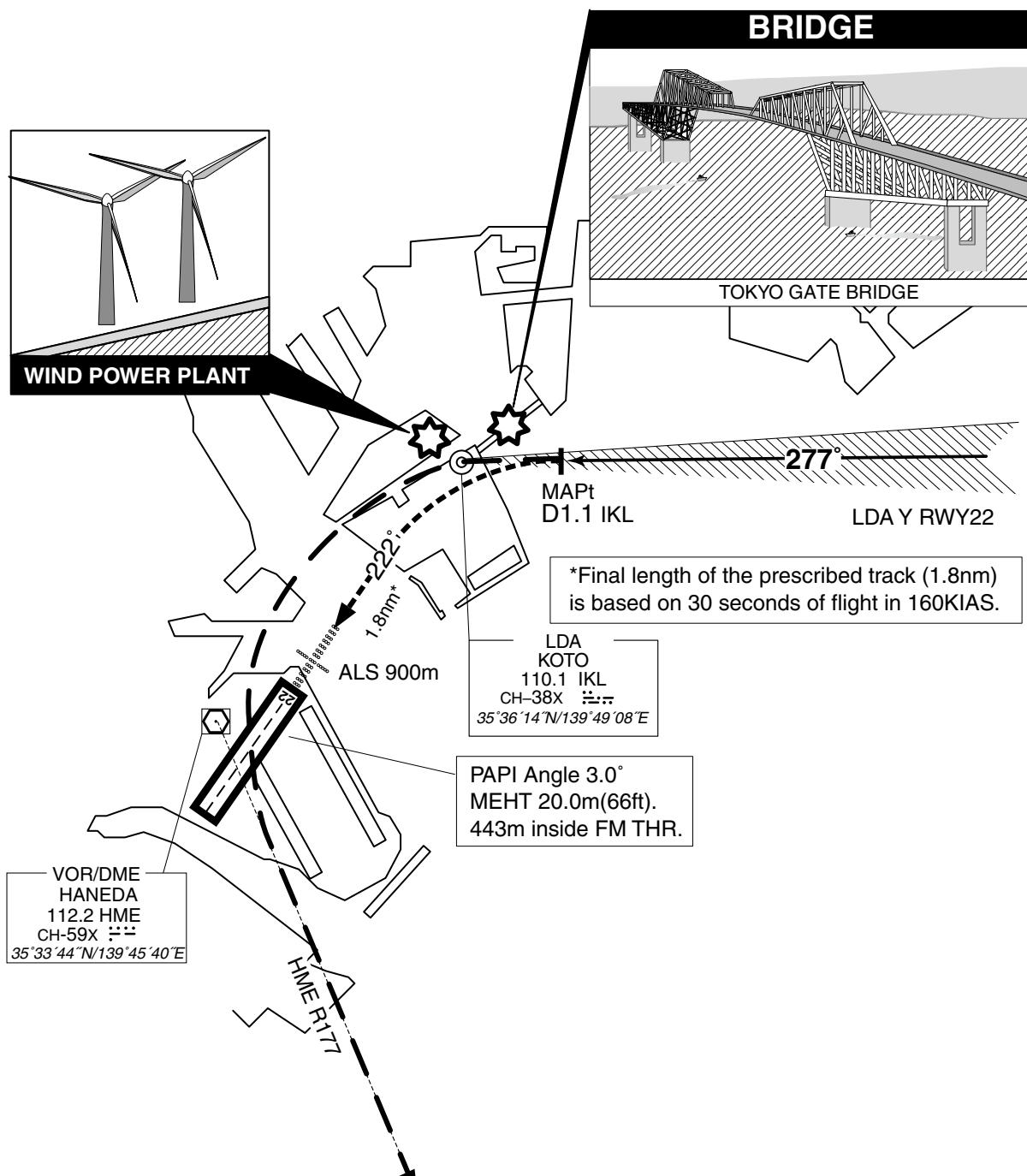
RJTT / TOKYO INTL

LDA Y RWY22

Visual Prescribed Track for LDA Y RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

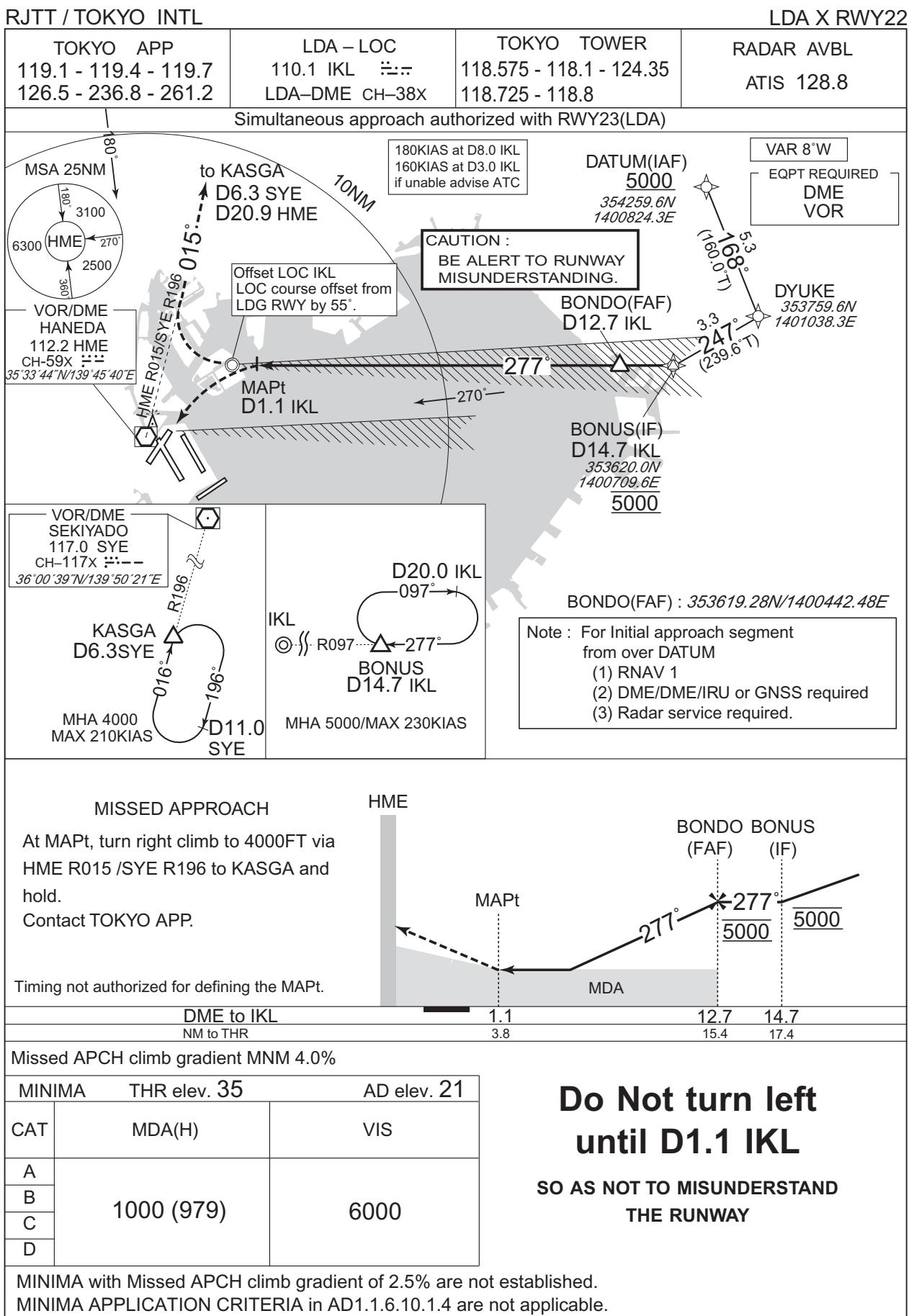
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left for joining HME R177 and missed approach procedure.

## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

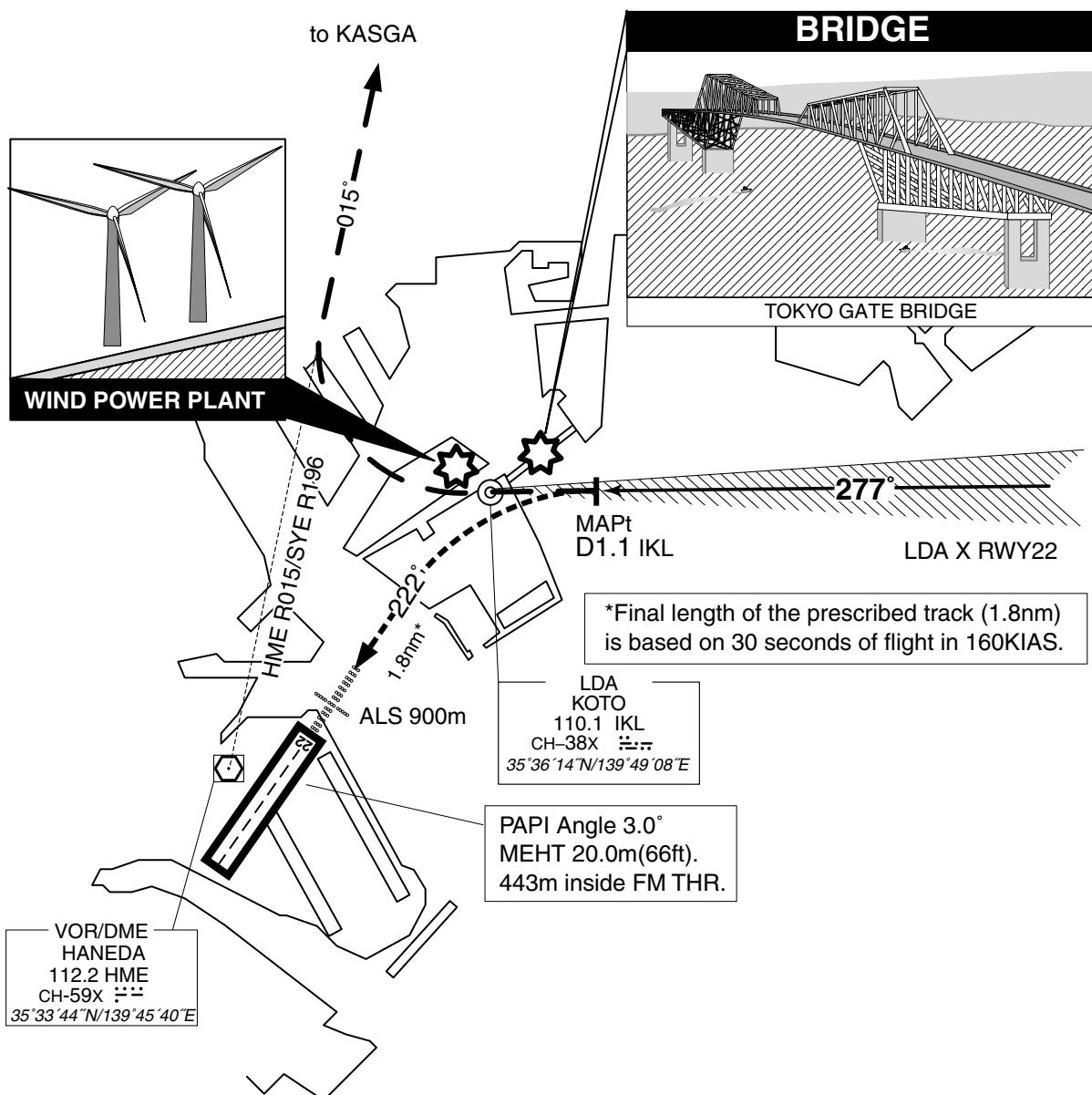
RJTT / TOKYO INTL

LDA X RWY22

Visual Prescribed Track for LDA X RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.

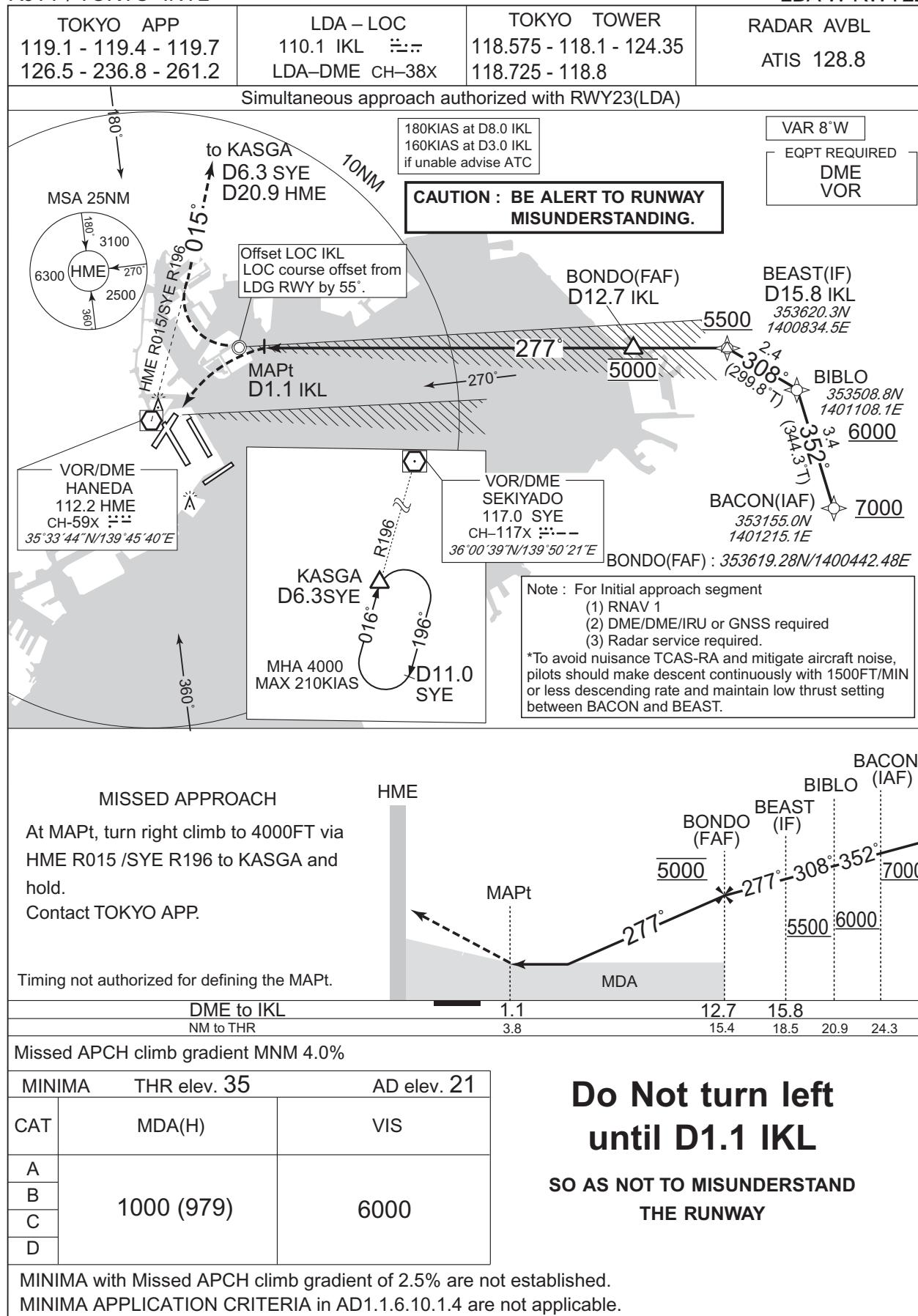


In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL



INSTRUMENT APPROACH CHART

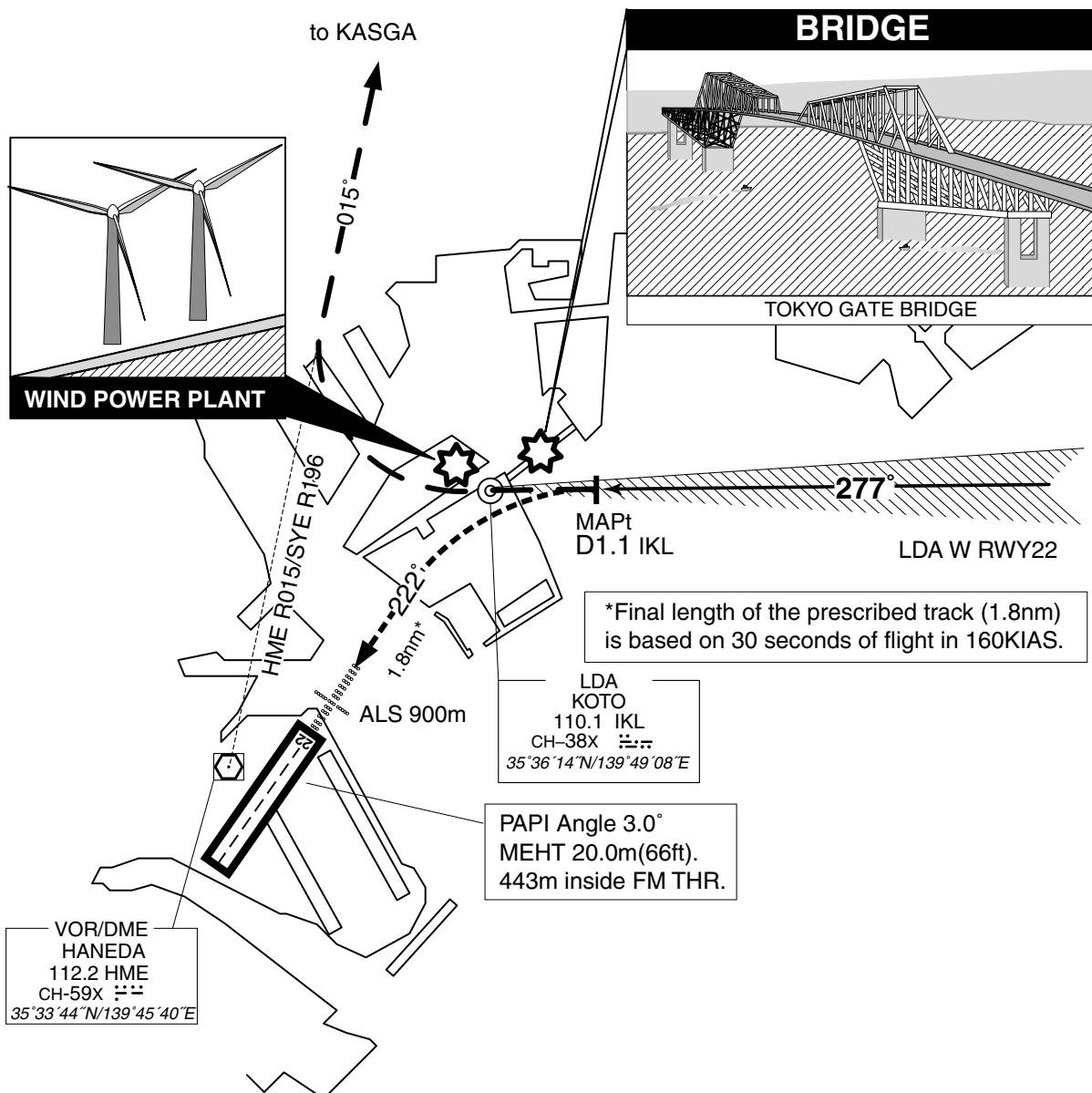
RJTT / TOKYO INTL

LDA W RWY22

Visual Prescribed Track for LDA W RWY22

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

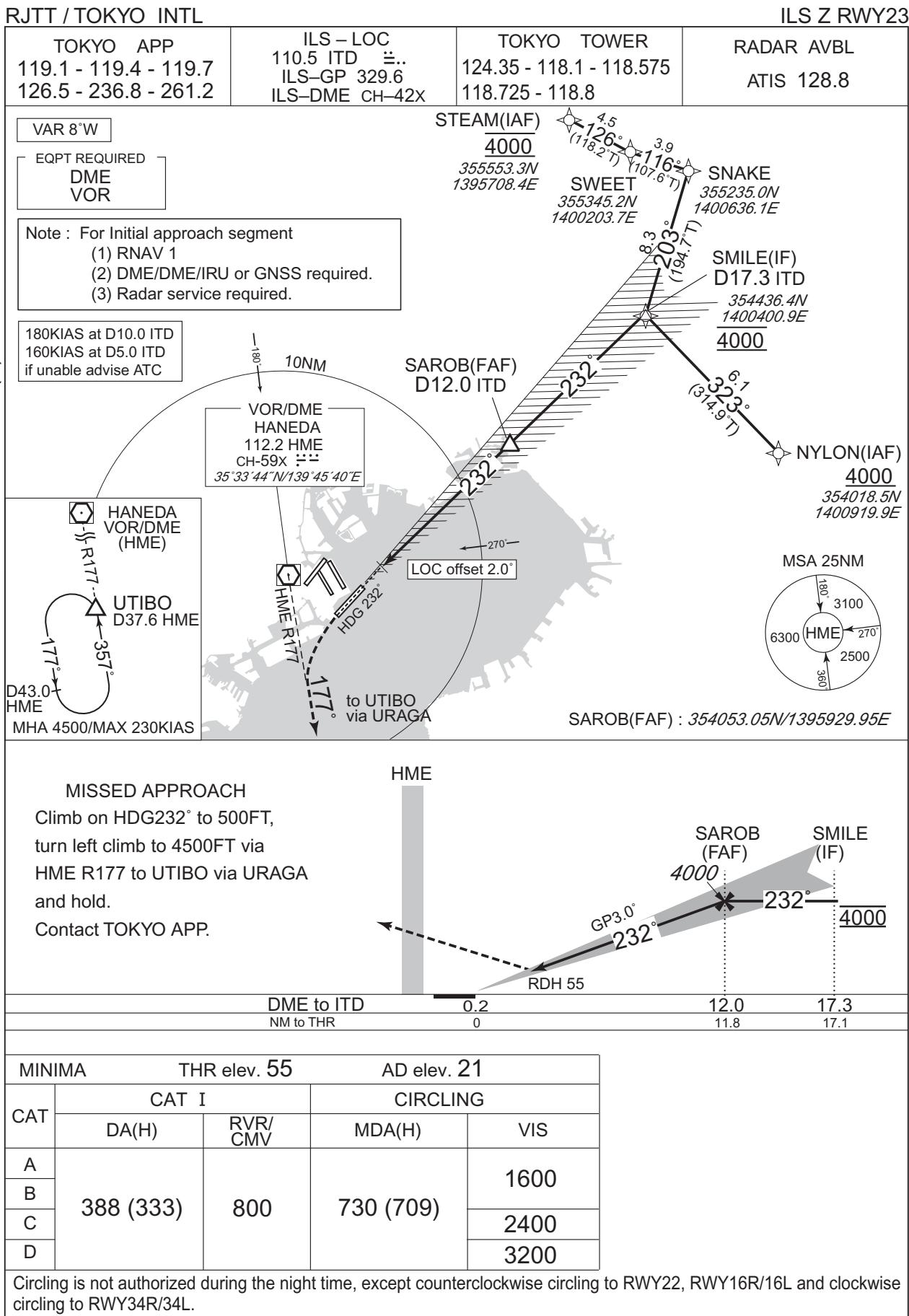
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



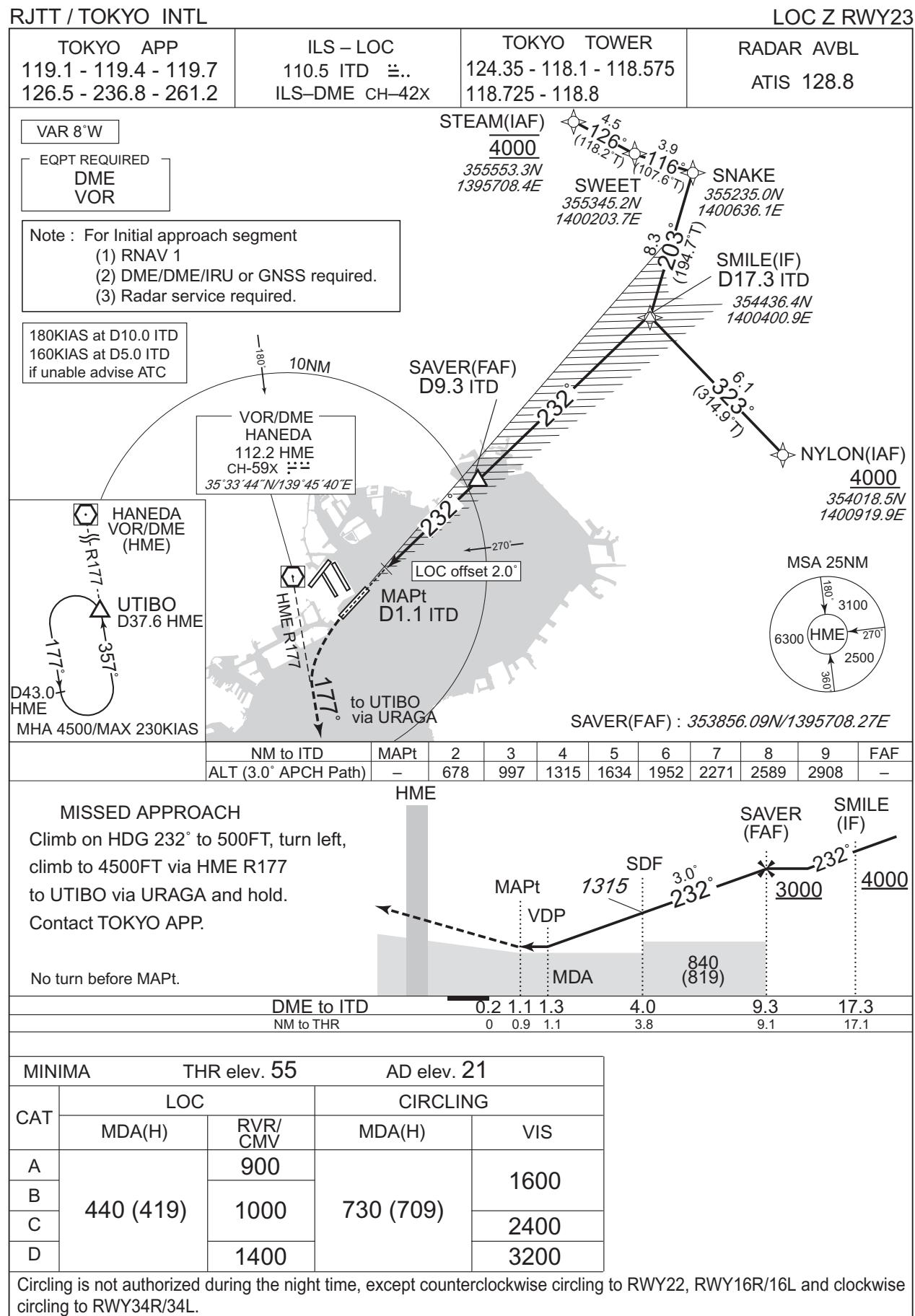
In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn right for joining HME R015/SYE R196 and missed approach procedure.

## INSTRUMENT APPROACH CHART



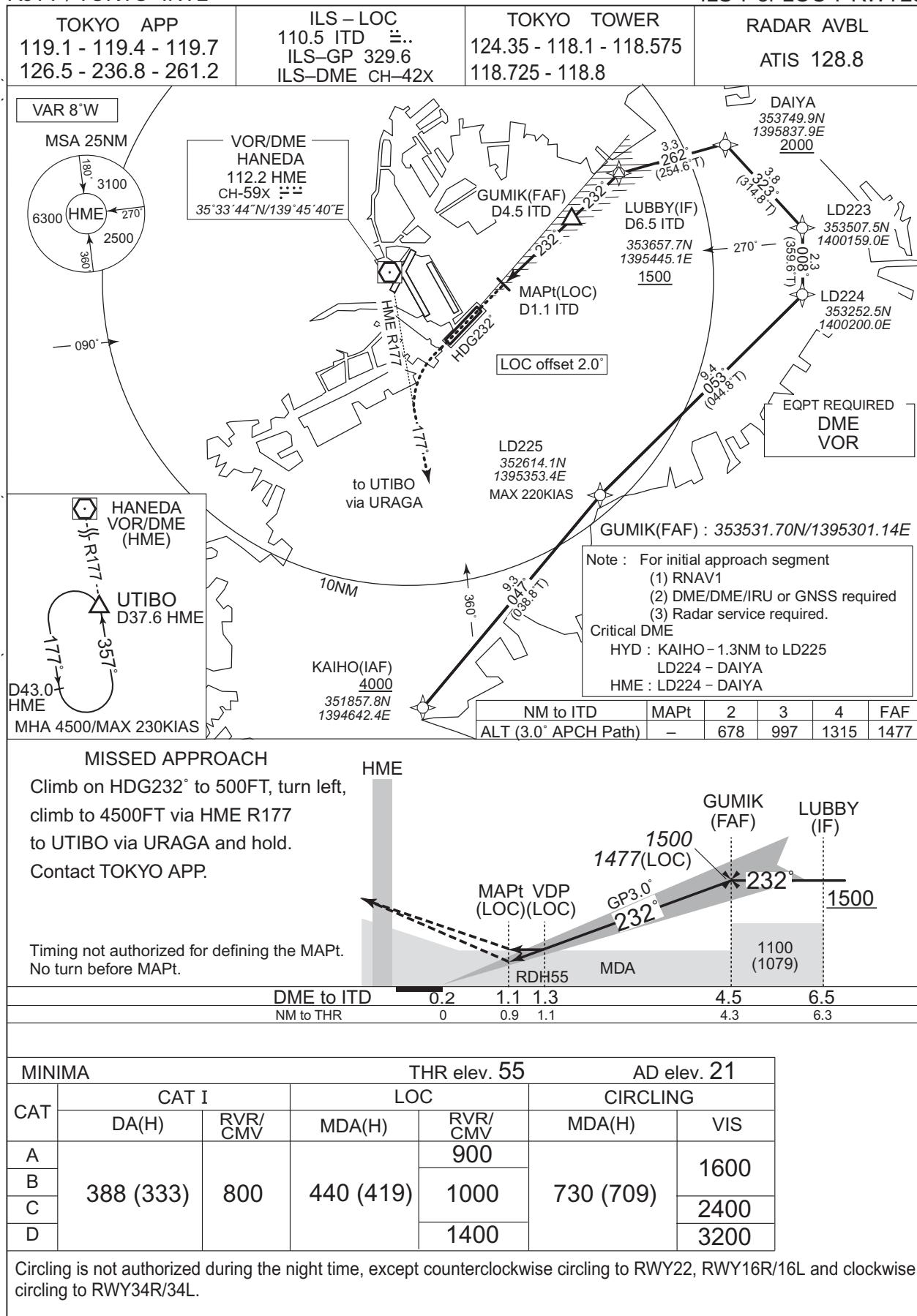
## INSTRUMENT APPROACH CHART



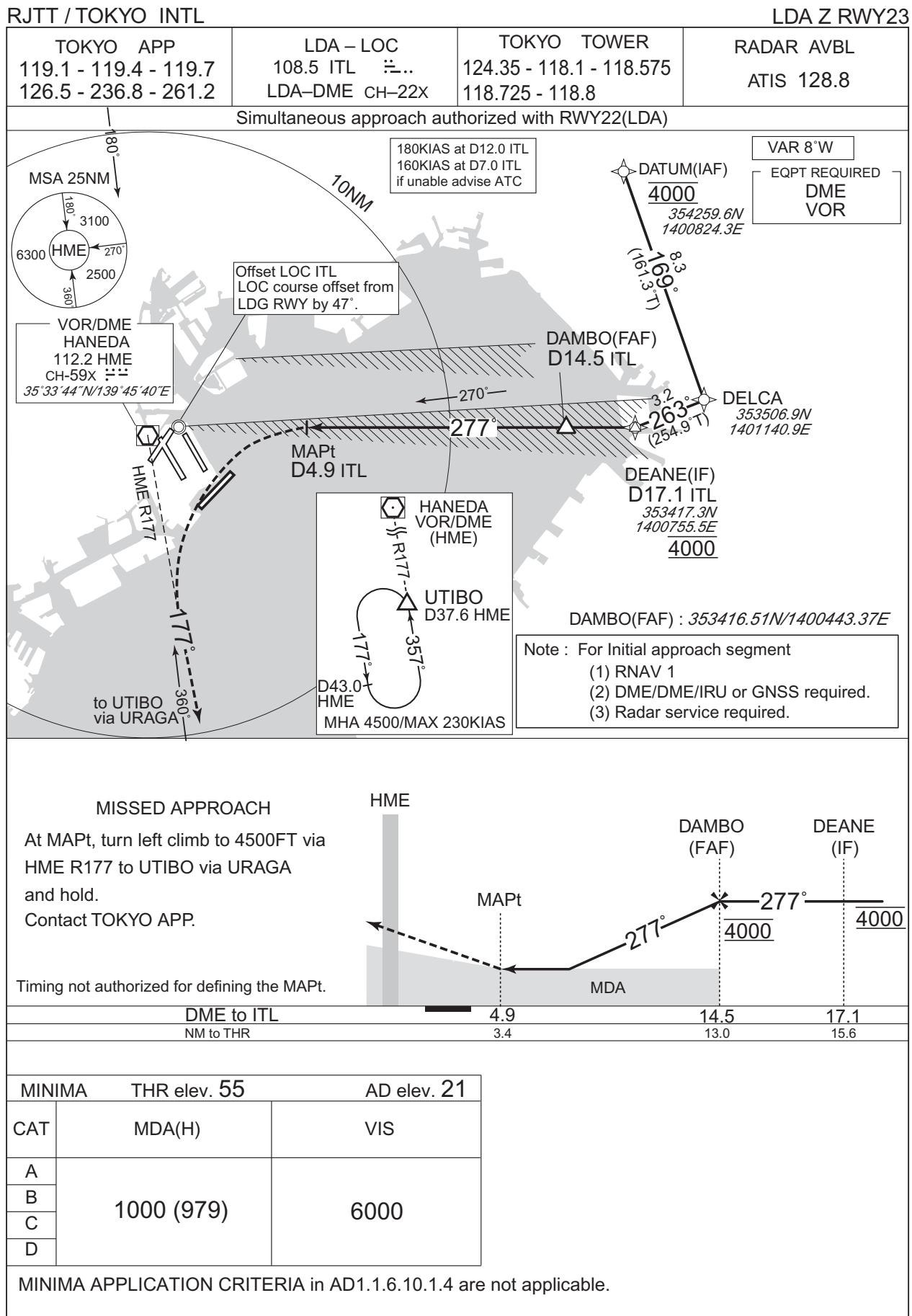
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS Y or LOC Y RWY23



INSTRUMENT APPROACH CHART



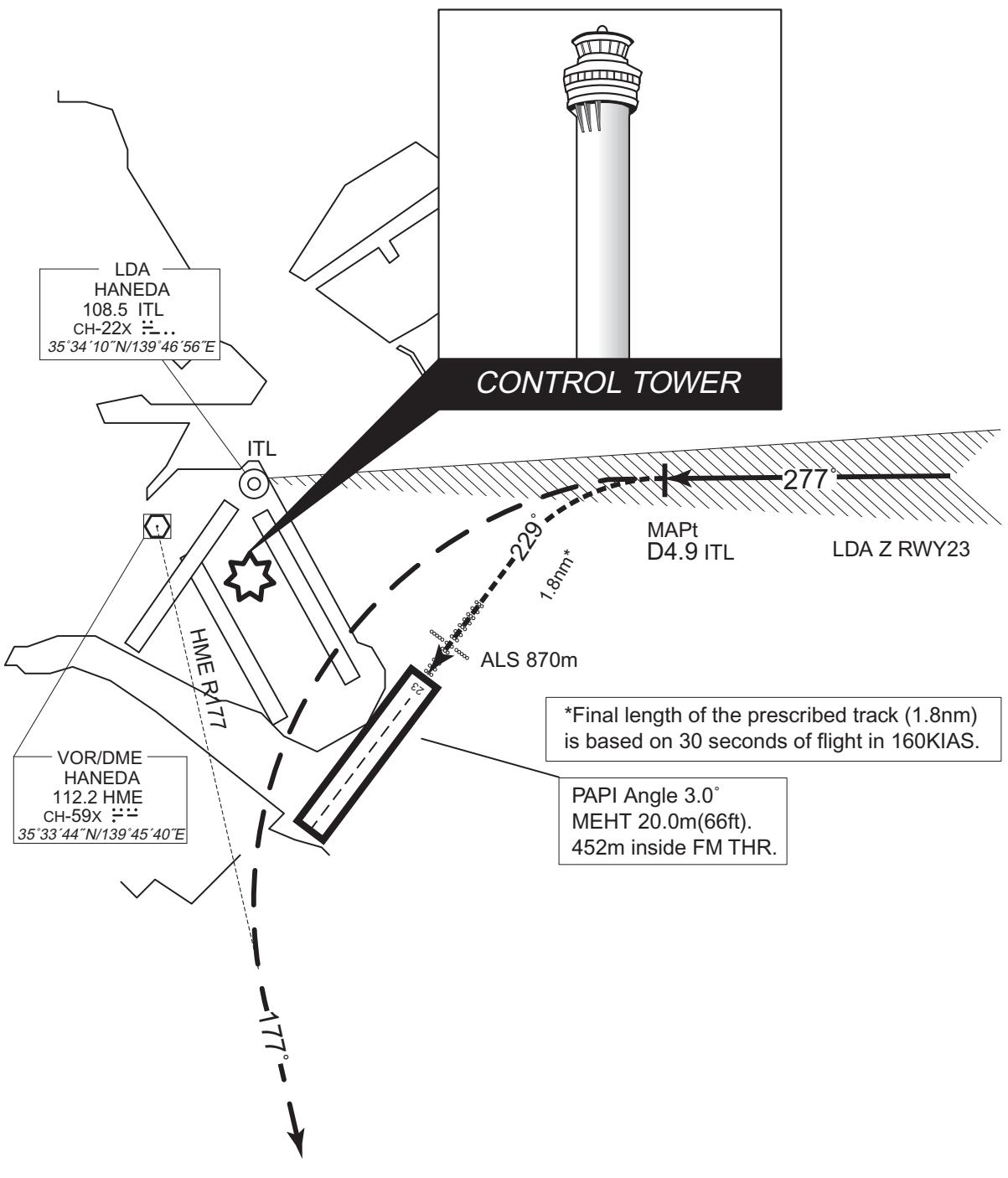
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY23

## Visual Prescribed Track for LDA Z RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



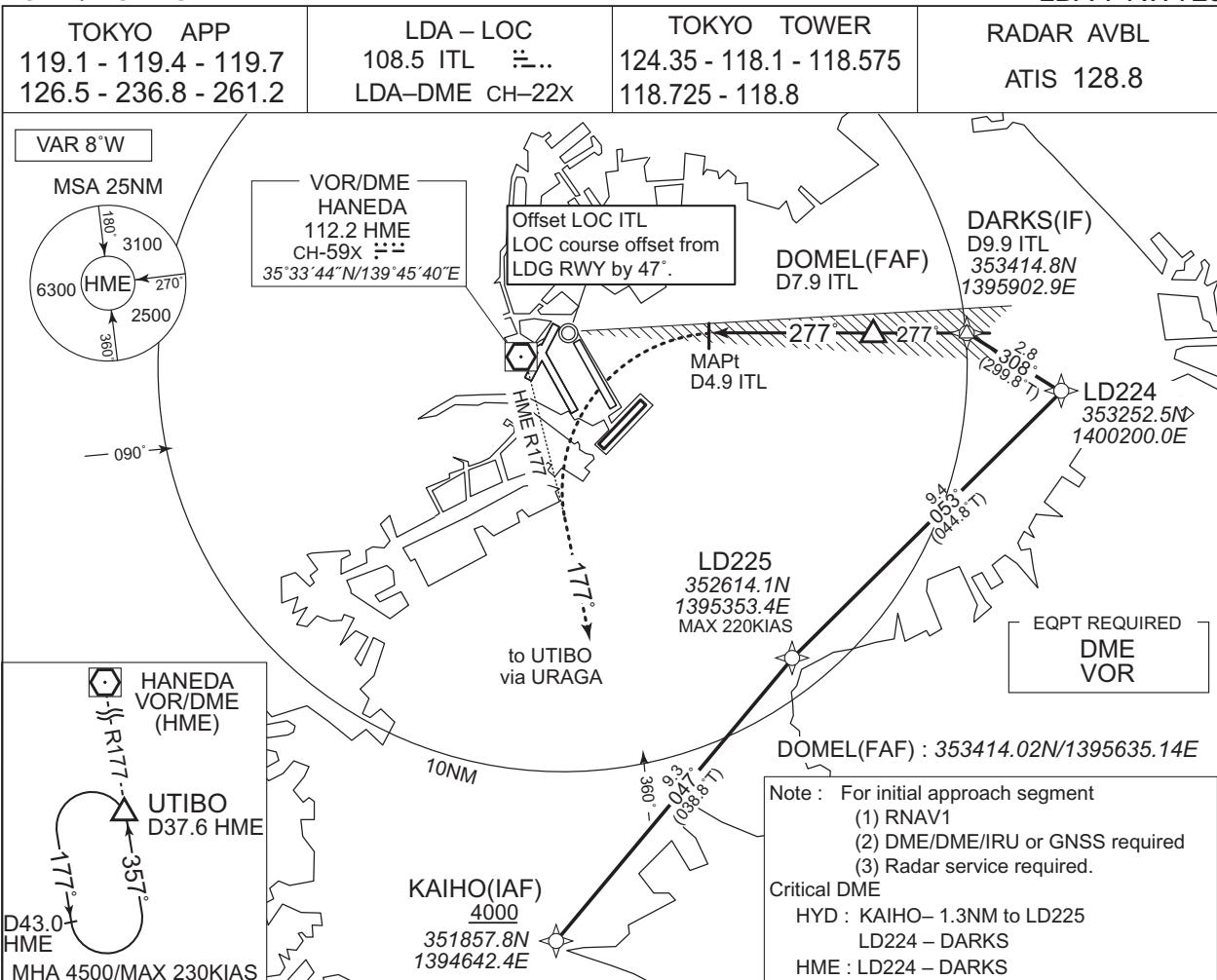
In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23



MISSED APPROACH

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via Uraga and hold.

Contact TOKYO APP.

Timing not authorized for defining the MAPt.

HME

MAPt

MDA

DOMEL (FAF)

DARKS (IF)

DME to ITL

NM to THR

4.9

3.4

7.9

6.4

9.9

8.4

MINIMA		THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS	
A			
B			
C			
D	1000 (979)	6000	

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

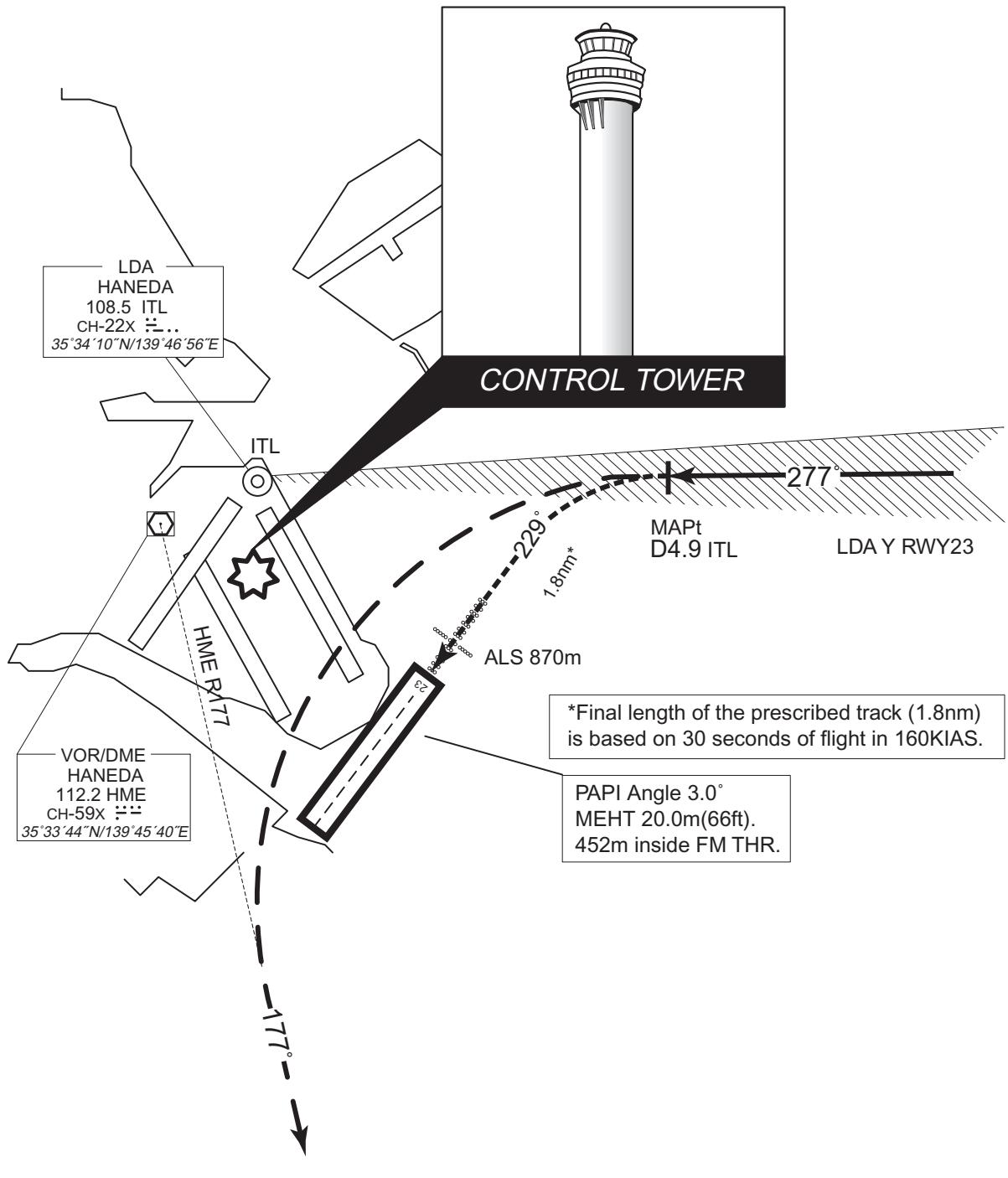
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23

## Visual Prescribed Track for LDA Y RWY23

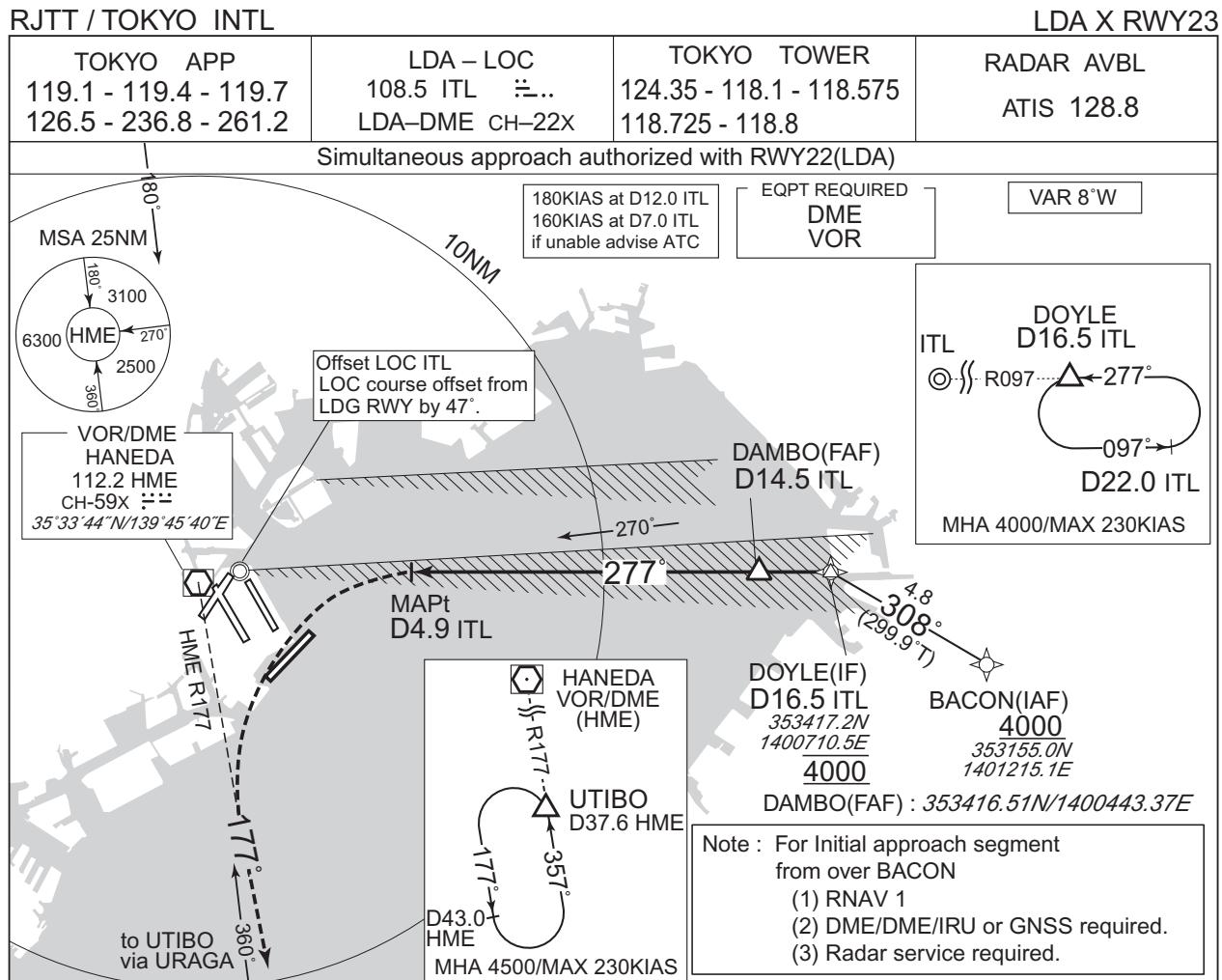
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART



**MISSED APPROACH**

At MAPt, turn left climb to 4500FT via HME R177 to UTIBO via Uraga and hold. Contact TOKYO APP.

Timing not authorized for defining the MAPt.

DME to ITL  
NM to THR

HME

MAPt

MDA

DAMBO  
(FAF)

DOYLE  
(IF)

4.9

3.4

14.5

13.0

16.5

15.0

MINIMA		THR elev. 55	AD elev. 21
CAT	MDA(H)	VIS	
A			
B			
C	1000 (979)	6000	
D			

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

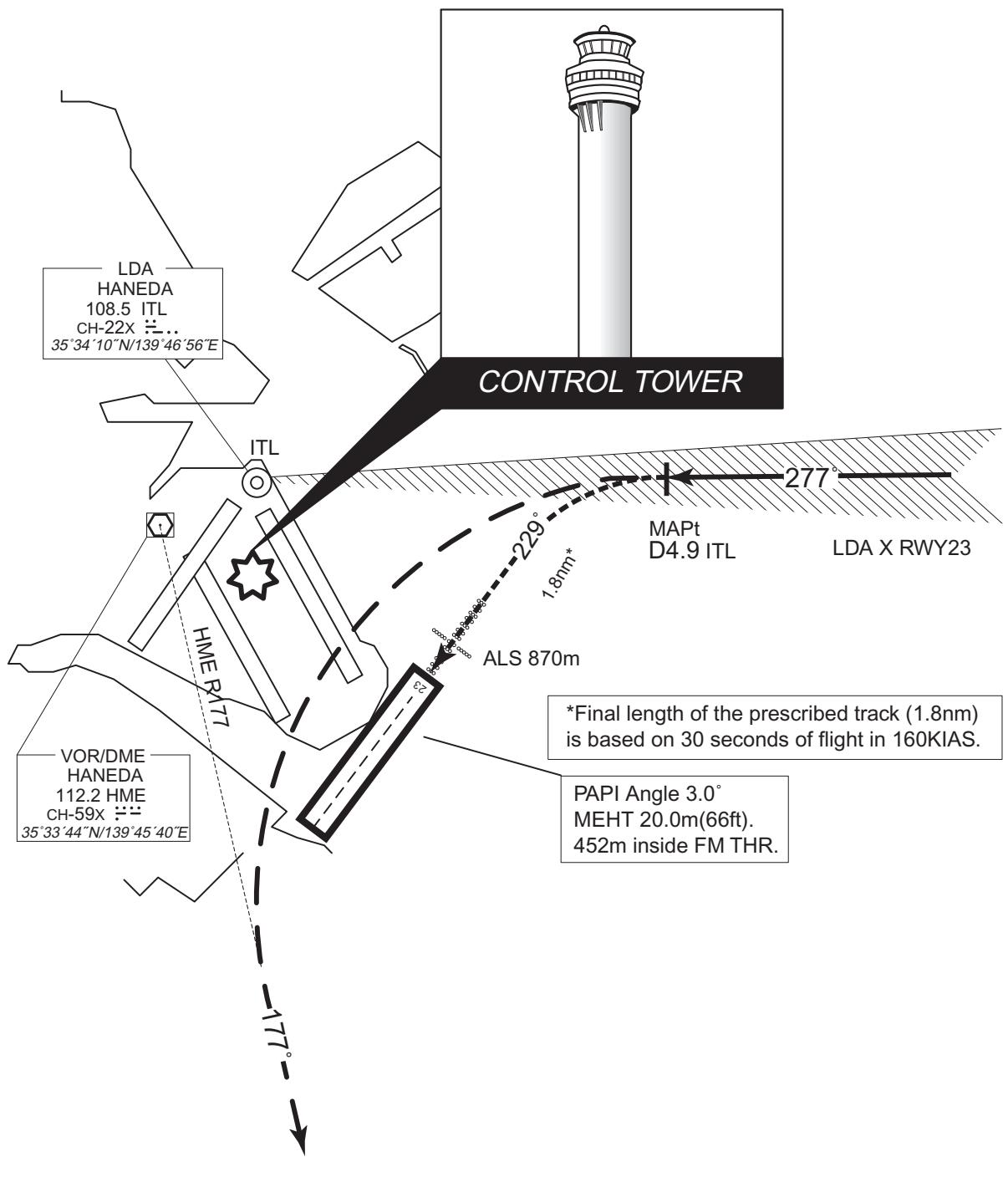
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA X RWY23

## Visual Prescribed Track for LDA X RWY23

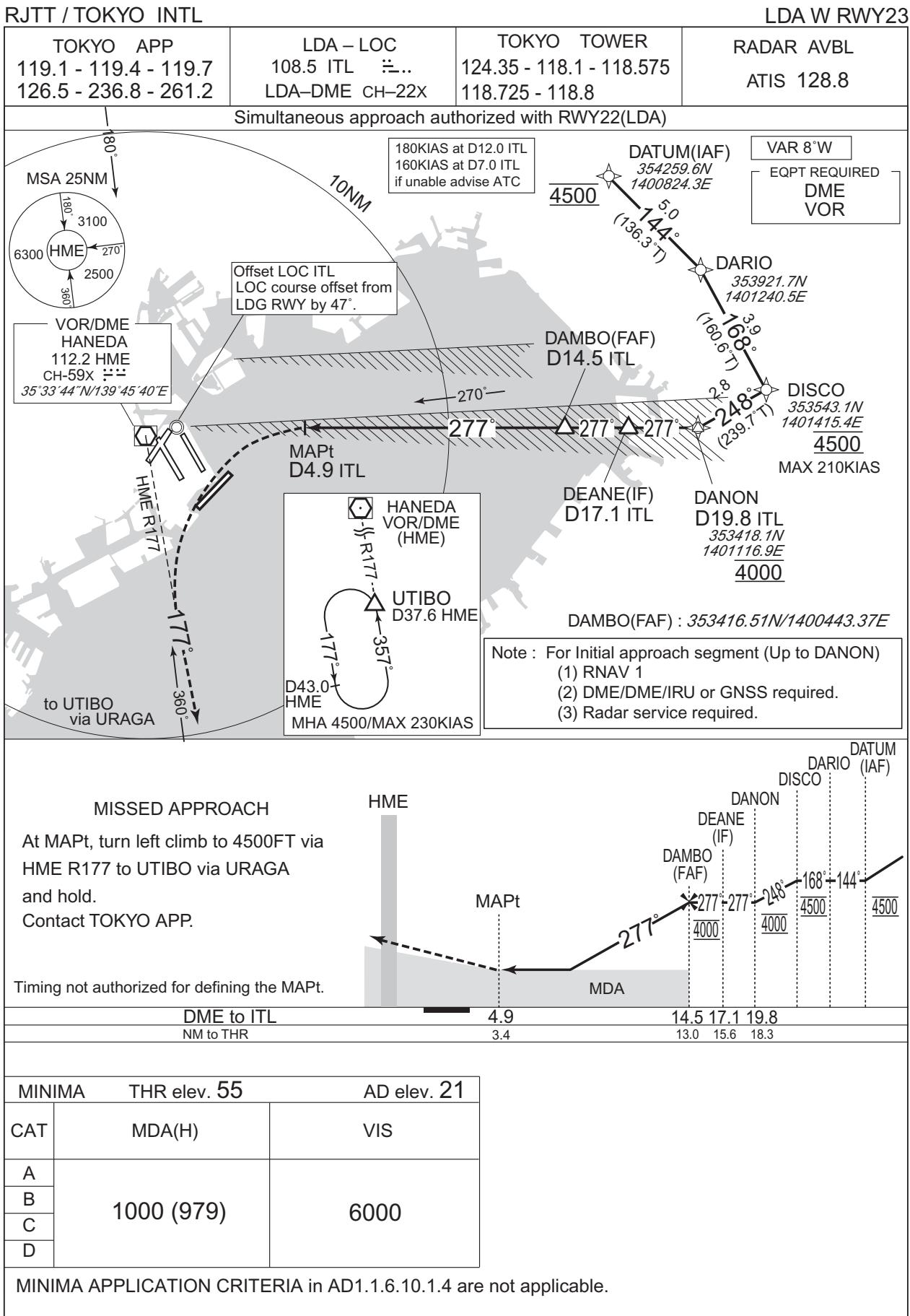
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



In case of GO AROUND, pilot should report ATC as soon as practicable.

Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART



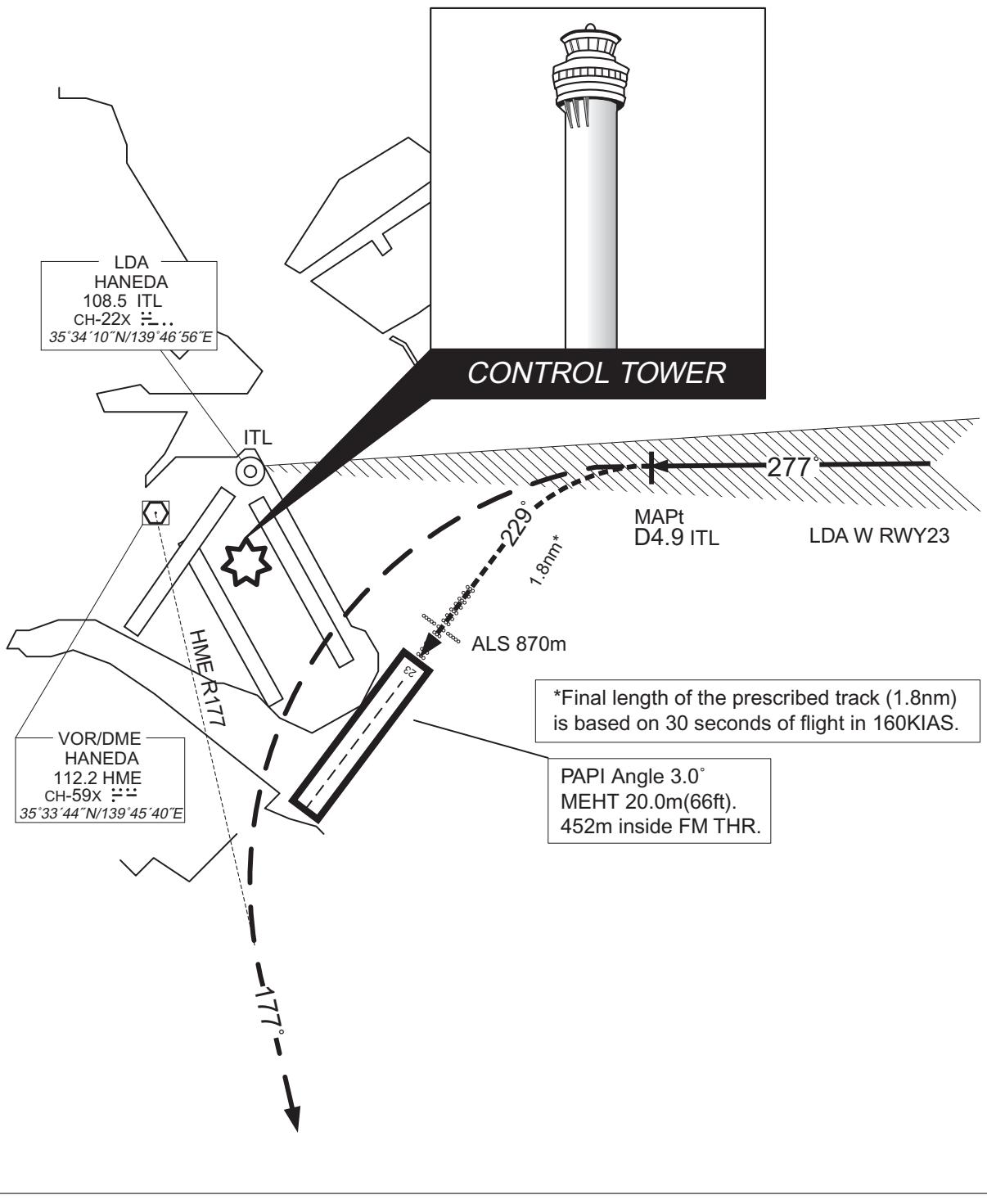
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

## Visual Prescribed Track for LDA W RWY23

Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.

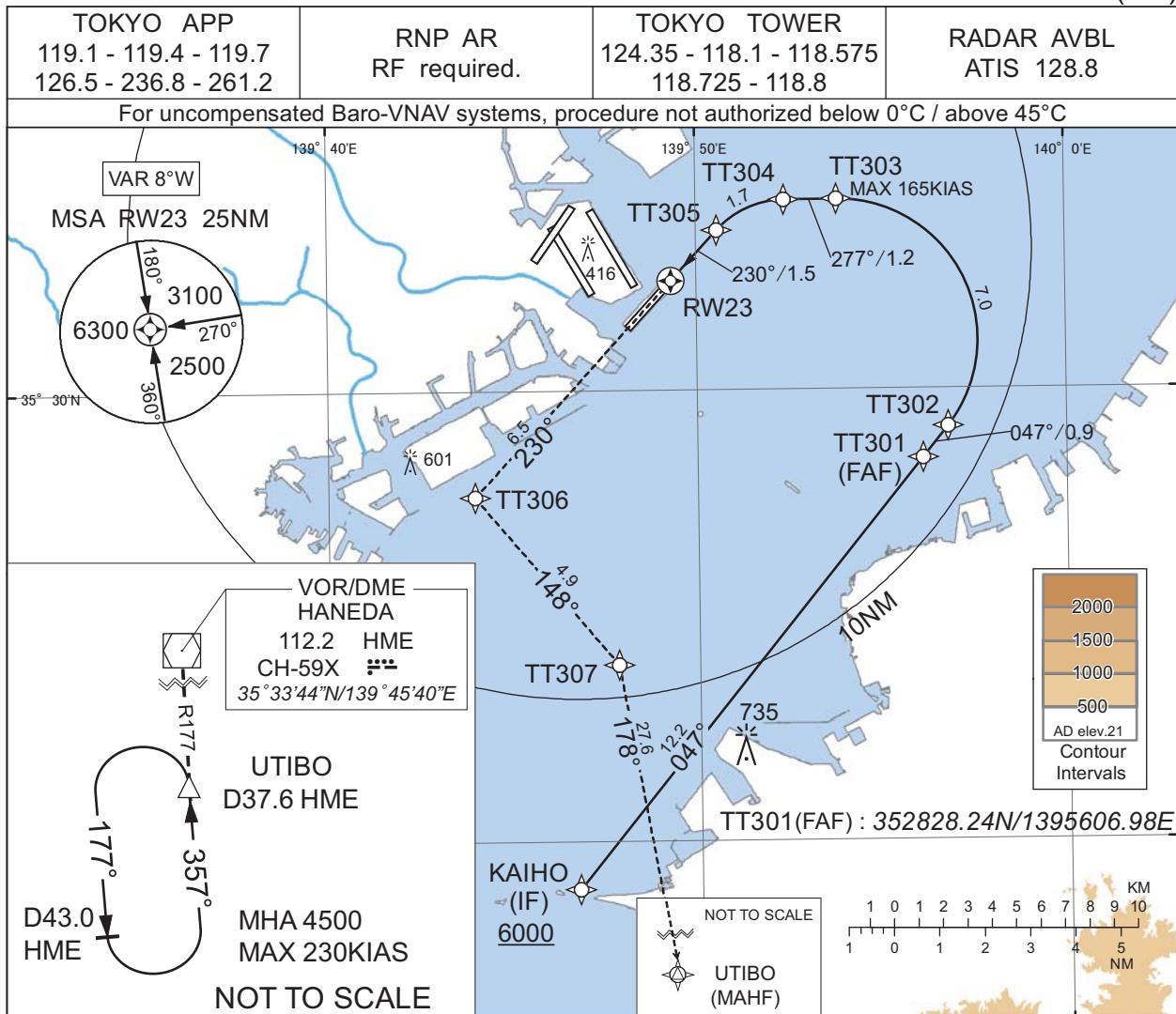


In case of GO AROUND, pilot should report ATC as soon as practicable.  
Until receiving ATC instructions, aircraft turn left HDG 229° for joining HME R177 and missed approach procedure.

INSTRUMENT APPROACH CHART

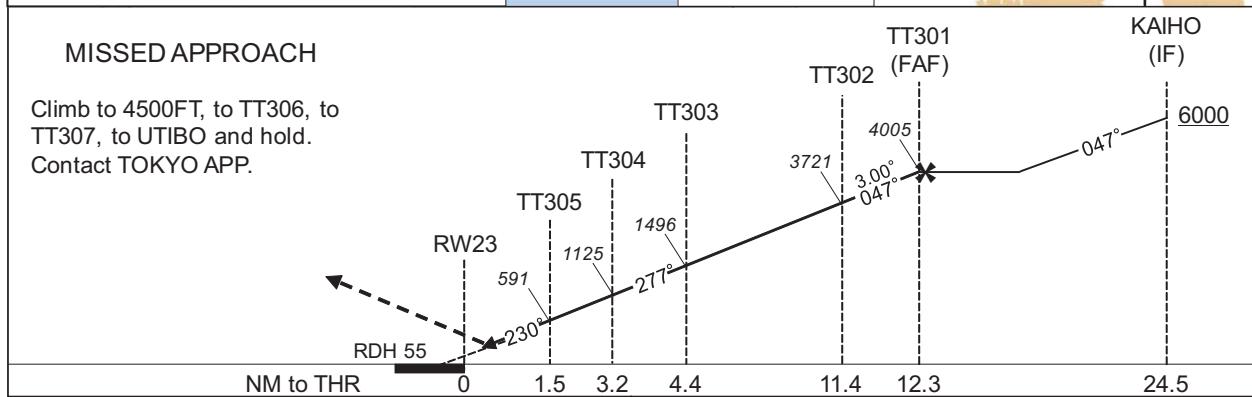
RJTT / TOKYO INTL

RNP RWY23(AR)



MISSED APPROACH

Climb to 4500FT, to TT306, to TT307, to UTIBO and hold.  
Contact TOKYO APP.



Missed APCH climb gradient MIN 5.0%

MINIMA	THR elev. 55	AD elev. 21
CAT	RNP 0.30	
	DA(H)	RVR/CMV
A	-	-
B		
C	330(275)	800
D		1200

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

**Authorization Required**

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY23(AR)

Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	KAIHO	-	-	-7.9	-	-	+6000	-	-	-
002	TF	TT301	-	047 (038.9)	-7.9	12.2	-	4005	-	-	1.0
003	TF	TT302	-	047 (038.7)	-7.9	0.9	-	3721	-	-3.00	0.3
004	RF Center: TTRF1 r=3.10NM	TT303	-	-	-7.9	7.0	L	1496	-165	-3.00	0.3
005	TF	TT304	-	277 (269.6)	-7.9	1.2	-	1125	-	-3.00	0.3
006	RF Center: TTRF2 r=2.00NM	TT305	-	-	-7.9	1.7	L	591	-	-3.00	0.3
007	TF	RW23	Y	230 (222.5)	-7.9	1.5	-	110	-	-3.00/55	0.3
008	TF	TT306	-	230 (222.5)	-7.9	6.5	-	-	-	-	1.0
009	TF	TT307	-	148 (139.9)	-7.9	4.9	-	-	-	-	1.0
010	TF	UTIBO	-	178 (169.9)	-7.9	27.6	-	4500	-	-	1.0

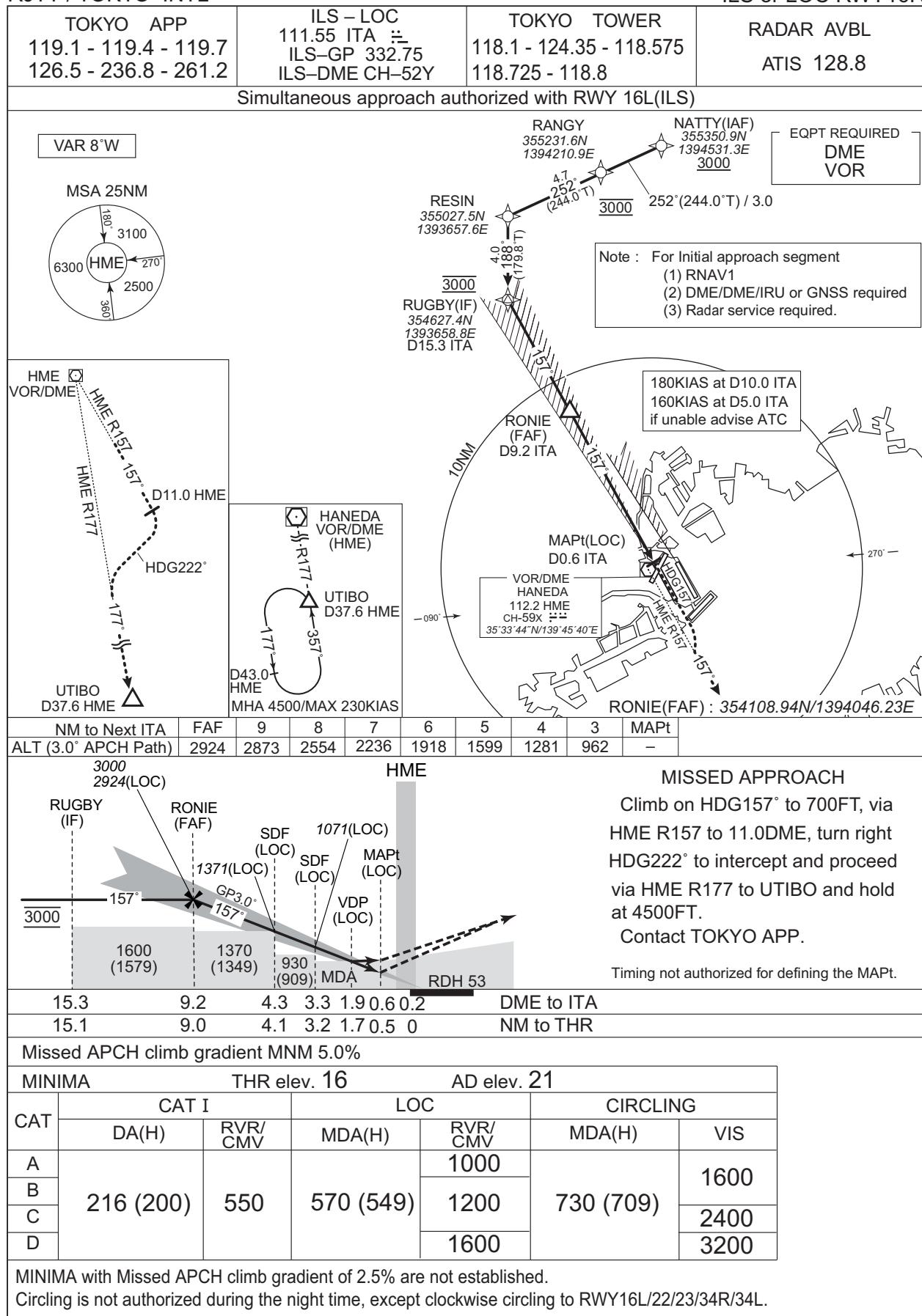
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
KAIHO	351857.83N / 1394642.43E	TTRF1	353106.44N / 1395349.88E
TT301	352828.24N / 1395606.98E	TTRF2	353212.62N / 1395225.48E
TT302	352909.99N / 1395647.99E		
TT303	353413.28N / 1395350.00E		
TT304	353412.77N / 1395224.45E		
TT305	353332.98N / 1395034.74E		
RW23	353226.15N / 1394919.61E		
TT306	352740.05N / 1394357.98E		
TT307	352356.01N / 1394749.03E		
UTIBO	345647.02N / 1395343.90E		

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

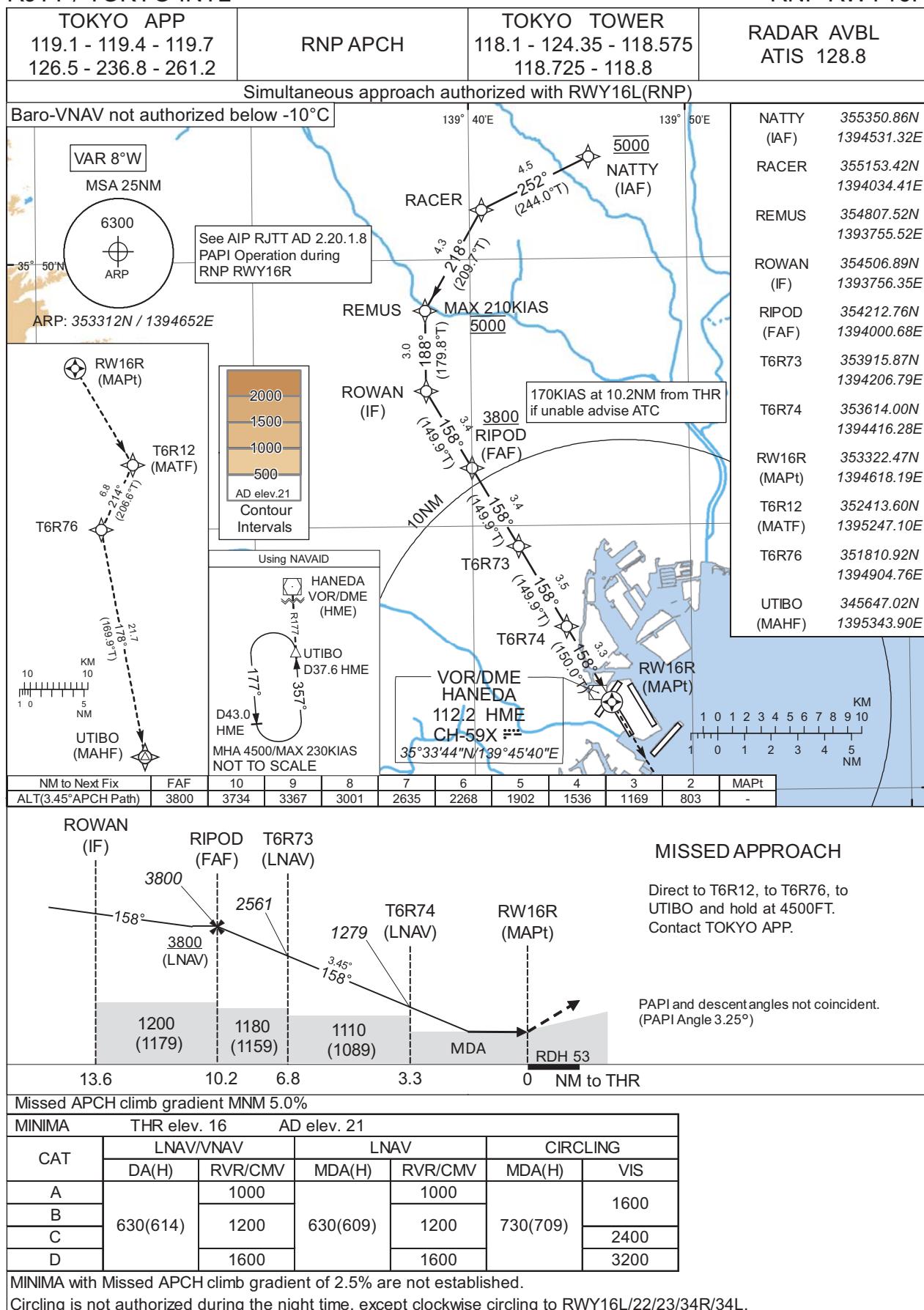
ILS or LOC RWY16R



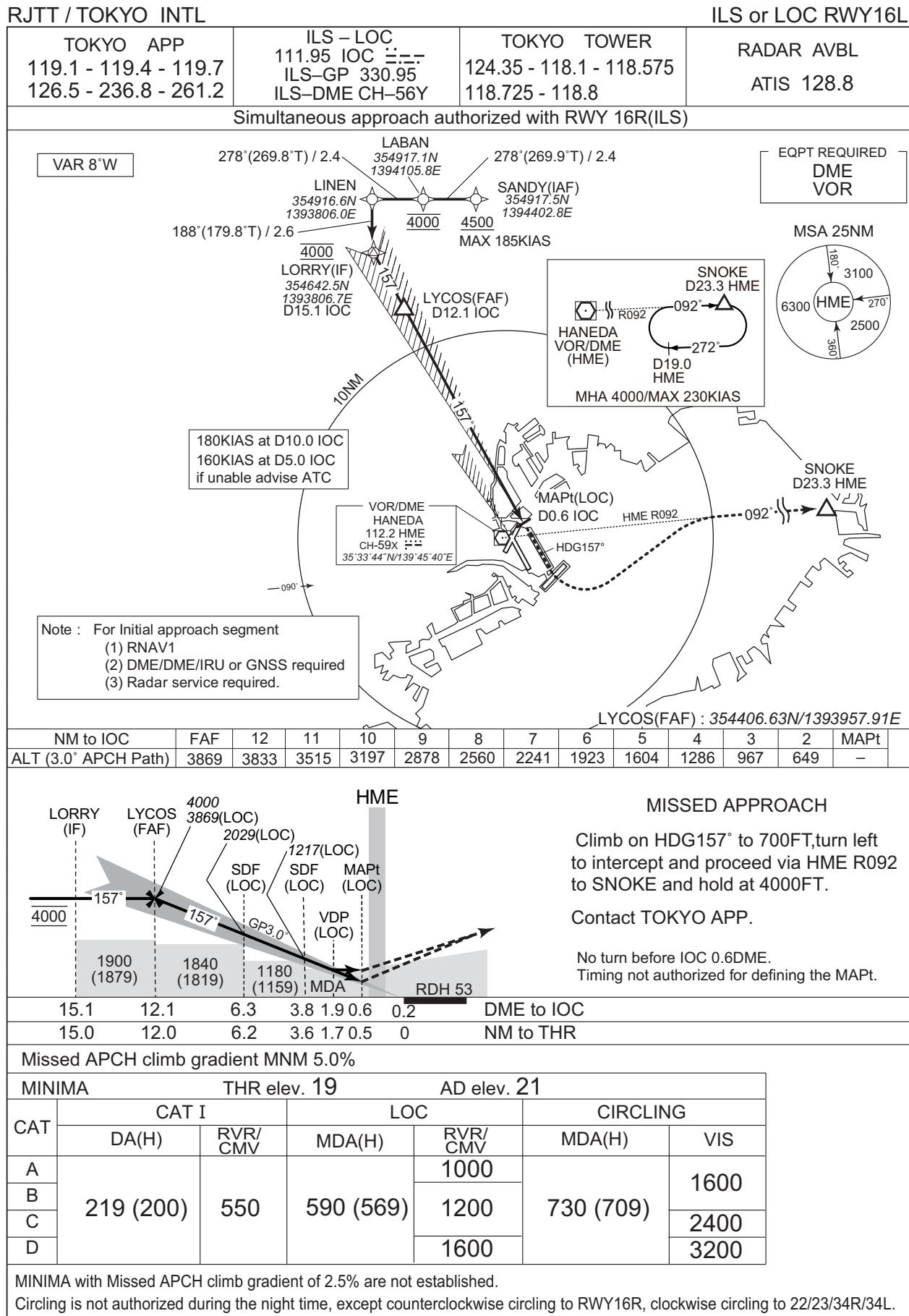
## INSTRUMENT APPROACH CHART

## RJTT / TOKYO INTL

## RNP RWY16R



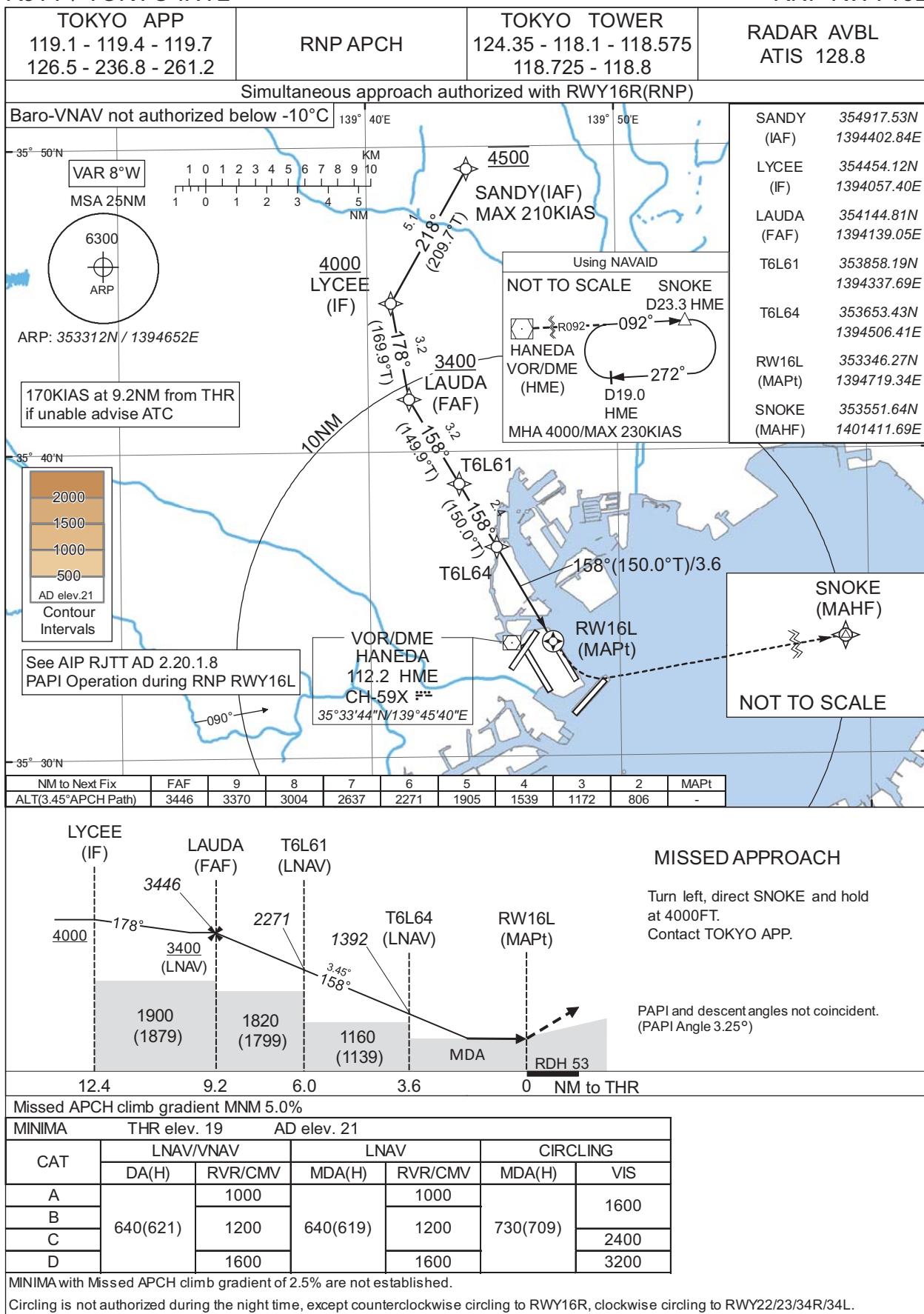
INSTRUMENT APPROACH CHART



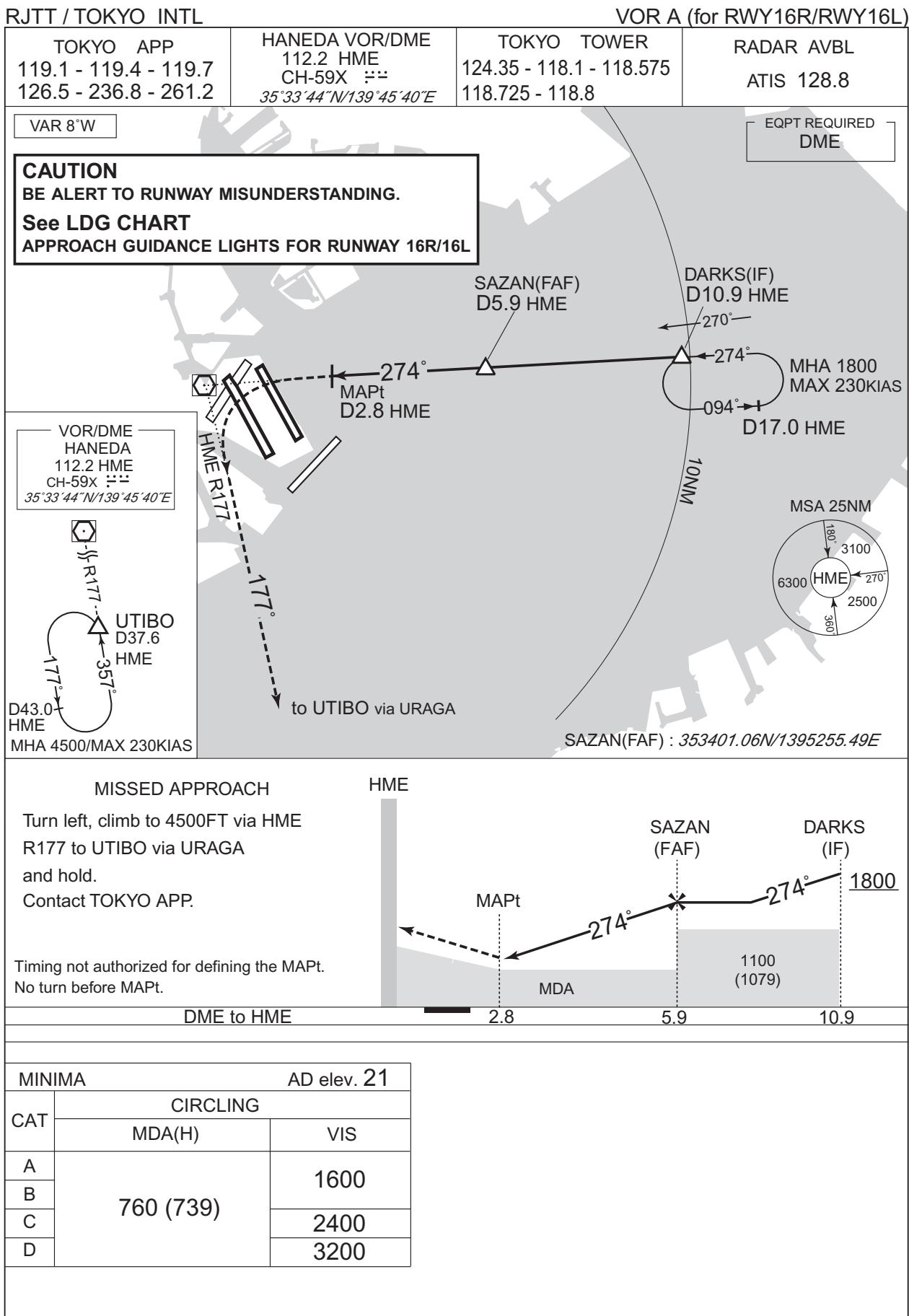
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

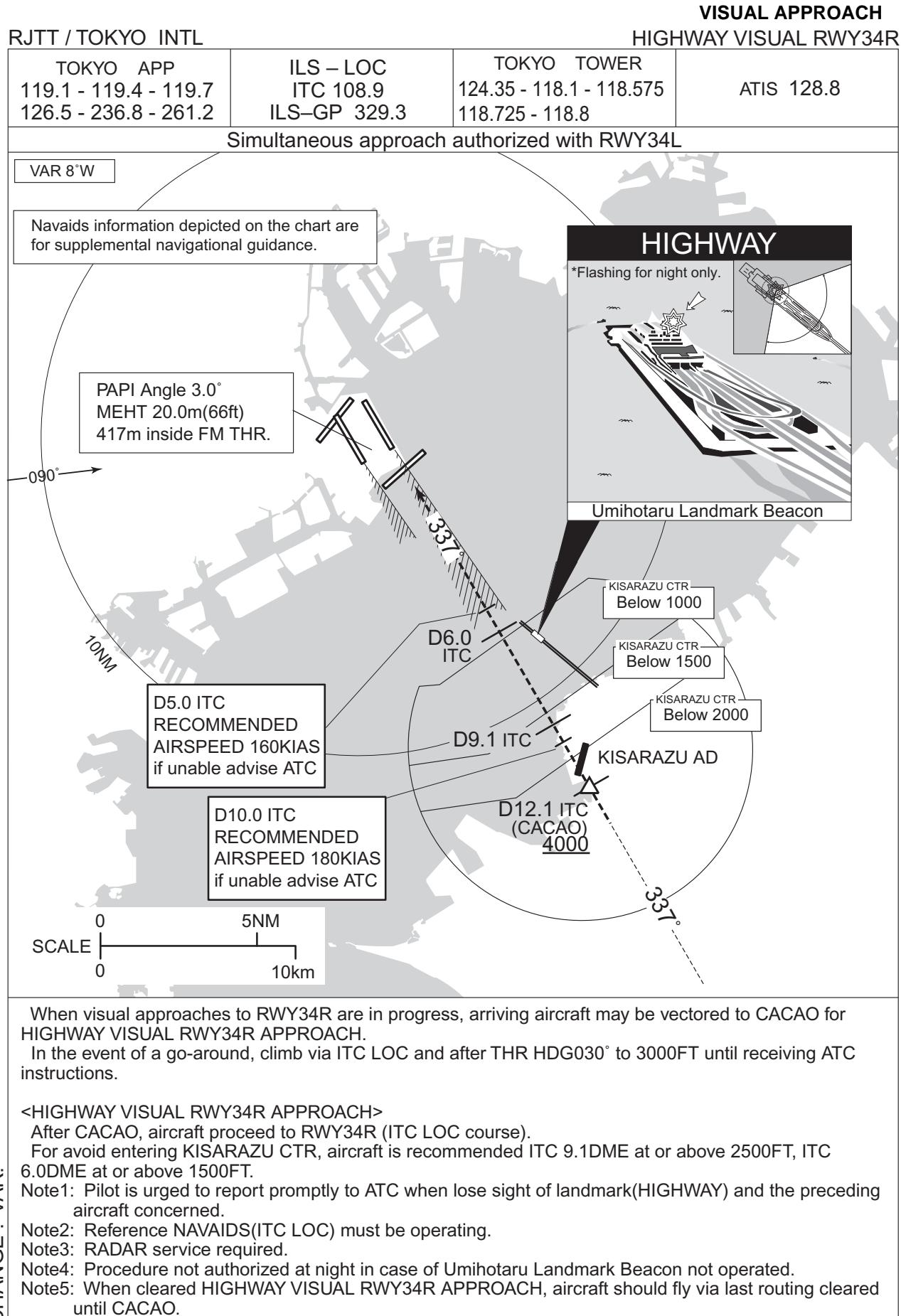
RNP RWY16L



INSTRUMENT APPROACH CHART



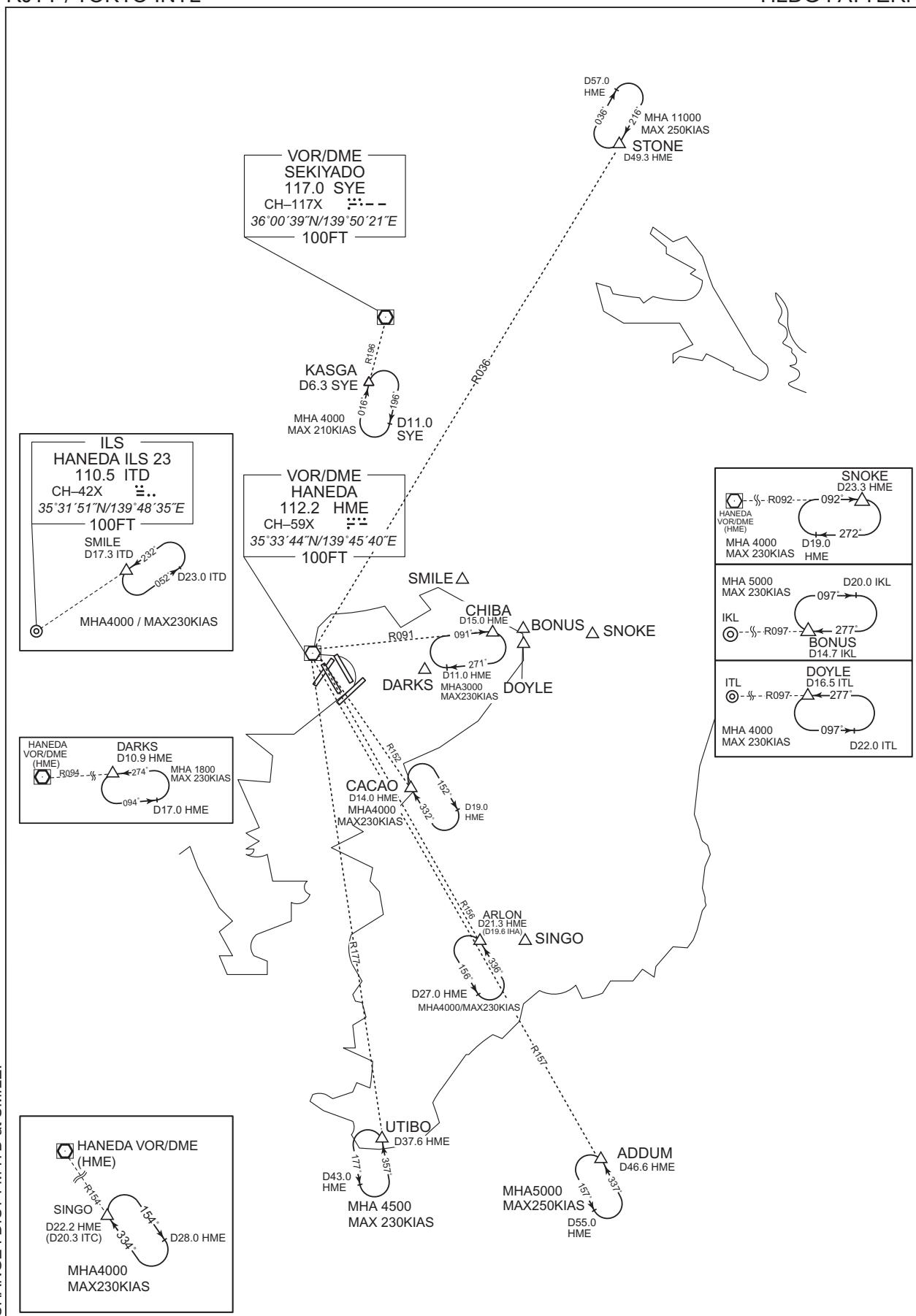
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CHANGE : VAR.

RJTT / TOKYO INTL

HLDG PATTERN



RJTT / TOKYO INTL

RNAV HLDG PATTERN

<p>Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.</p> <p>1. Outbound Time / Distance 2. Speed → See Tabular Description.</p>		RNAV 1
ARLON MHA 4000	BACON MHA 4000	<p>The map illustrates the RNAV HLDG PATTERN around the CHIBA area. Key locations include:</p> <ul style="list-style-type: none"> <li><b>VOR/DME SEKIYADO</b>: 117.0 SYE, CH-117X, 36°00'39"N/139°50'21"E, 100FT. Includes points SCREW, DREAD, NEURO, and SCREW.</li> <li><b>VOR/DME HANEDA</b>: 112.2 HME, CH-59X, 35°33'44"N/139°45'40"E, 100FT. Includes points CREAM, MESSE, KAIHO, and ANZAC.</li> <li><b>CHIBA</b>: MHA 3000, 092°, 272°.</li> <li><b>OSHIMA(XAC)</b>: MHA 5000, 098°, 278°.</li> <li><b>NOVEL</b>: MHA 5000, 084°.</li> <li><b>GODIN</b>: MHA 8000, 017°, 197°.</li> <li><b>POLIX</b>: MHA 11000, 310°, 130°.</li> <li><b>COLOR</b>: MHA 8000, 168°, 348°.</li> <li><b>DENNYS</b>: MHA 4000, 168°, 348°.</li> <li><b>SPINE</b>: MHA 4000, 117°, 297°.</li> <li><b>NYLON</b>: MHA 4000, 120°, 300°.</li> <li><b>COACH</b>: MHA 4000, 150°, 330°.</li> <li><b>SHAFT</b>: MHA 4000, 166°, 346°.</li> <li><b>CIVIC</b>: MHA 4000, 166°, 346°.</li> <li><b>AVEEY</b>: MHA 5000, 134°, 314°.</li> <li><b>WEDGE</b>: MHA 4000, 039°, 219°.</li> <li><b>AKSEL</b>: MHA 5000, 039°, 219°.</li> <li><b>STING</b>: MHA 4000, 068°, 248°.</li> <li><b>NEURO</b>: MHA 4000, 081°, 291°.</li> <li><b>NUMAN</b>: MHA 4000, 093°, 278°.</li> <li><b>SCREW</b>: MHA 4000, 093°, 278°.</li> <li><b>DREAD</b>: MHA 5000, 110°, 161°.</li> <li><b>CREAM</b>: MHA 4000, 111°, 291°.</li> <li><b>BACON</b>: MHA 4000, 111°, 291°.</li> <li><b>MESSE</b>: MHA 6000, 247°, 067°.</li> <li><b>ARLON</b>: MHA 4000, 335°, 17°.</li> <li><b>KAIHO</b>: MHA 4000, 335°, 17°.</li> <li><b>ANZAC</b>: MHA 5000, 089°, 249°.</li> <li><b>CHIBA</b>: MHA 3000, 092°, 272°.</li> <li><b>NYLON</b>: MHA 4000, 178°, 355°.</li> <li><b>SNARE</b>: MHA 4000, 117°, 297°.</li> <li><b>SPINE</b>: MHA 4000, 168°, 348°.</li> </ul>
COACH MHA 4000	CREAM MHA 4000	
DREAD MHA 5000	MESSE MHA 6000	
SCREW MHA 4000	STING MHA 4000	
NUMAN MHA 4000	OSHIMA(XAC) MHA 5000	
NEURO MHA 4000	CHIBA MHA 3000	

CHANGE : HLDG pattern (CHIBA) established.

## RJTT / TOKYO INTL

## RNAV HLDG PATTERN

Path	Waypoint Identifier	Inbound Course °M(T)	Magnetic Variation	Outbound Time (MIN)	Outbound Distance (NM)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	AKSEL	039 (031.2)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	069 (060.8)	-7.9	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	AVEEY	314 (306.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CHIBA	092 (083.7)	-7.9	1.0(-14000)	—	R	3000	—	-230(-14000)	RNAV1
Hold	CIVIC	346 (337.7)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	186 (177.8)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	168 (159.9)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.9	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	MESSE	247 (238.8)	-7.9	1.0(-14000) 1.5(+14001)	—	L	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	291 (282.9)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.9	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	358 (350.0)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	POLIX	310 (302.3)	-7.9	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	STING	068 (059.6)	-7.9	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.9	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	XAC	098 (090.3)	-7.9	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : HLDG pattern (CHIBA) established.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

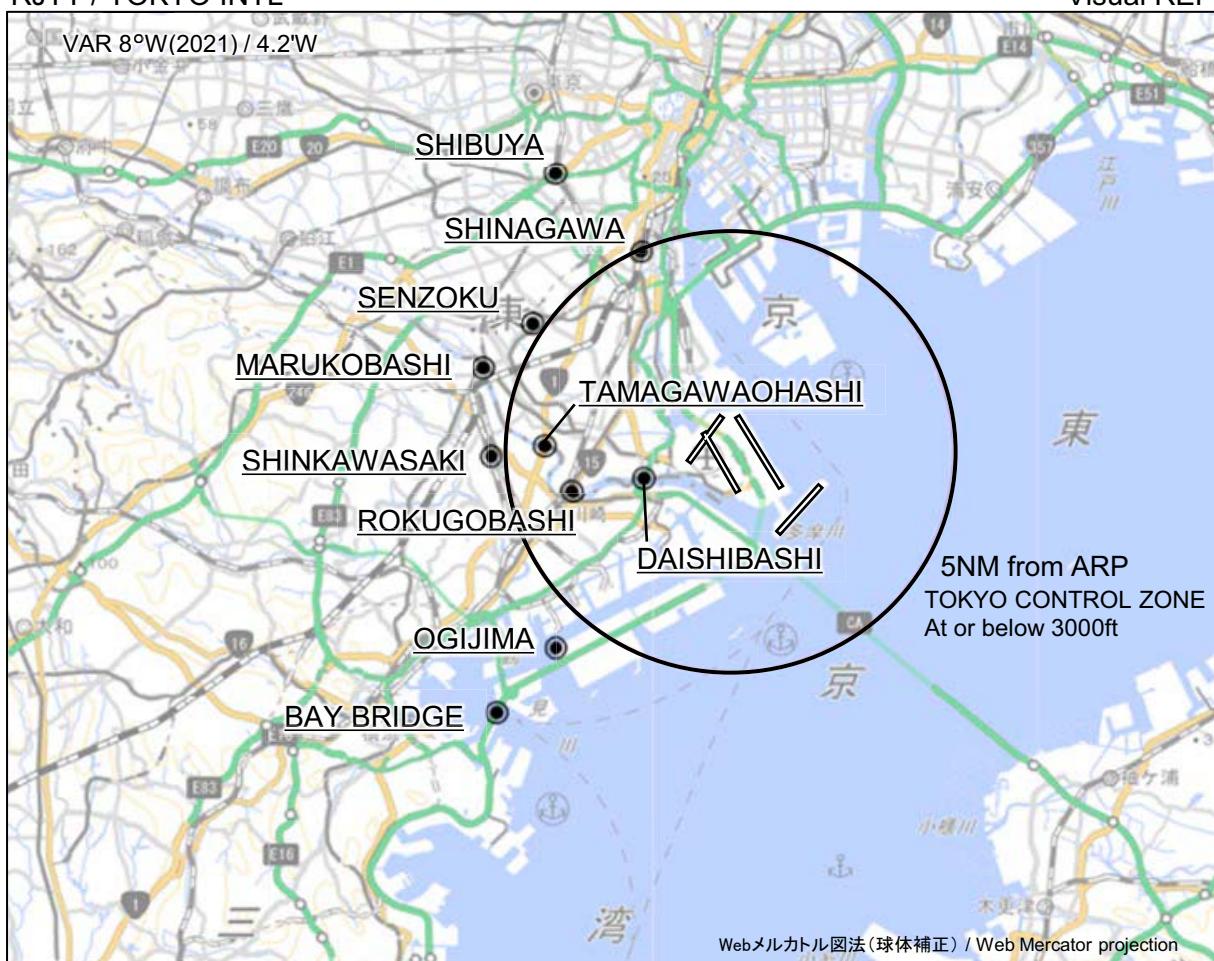
Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
AKSEL	344039.5N / 1395126.9E	MESSE	351100.8N / 1402214.7E
ANZAC	345028.8N / 1394146.7E	NEURO	355727.6N / 1395441.3E
ARLON	351525.3N / 1395859.8E	NOVEL	362106.9N / 1400004.9E
AVEEY	344155.9N / 1402158.0E	NUMAN	354714.4N / 1401204.9E
BACON	353155.0N / 1401215.1E	NYLON	354018.5N / 1400919.9E
CHIBA	353522.2N / 1400400.0E	POLIX	361237.1N / 1402622.5E
CIVIC	350840.6N / 1402552.1E	SCREW	360301.2N / 1395400.4E
COACH	353736.0N / 1401231.5E	SHAFT	352227.4N / 1401313.3E
COLOR	360116.3N / 1401219.8E	SNARE	354731.1N / 1395238.1E
CREAM	351743.4N / 1400612.4E	SPINE	354213.5N / 1401125.8E
DENNY	354828.8N / 1400556.4E	STING	345157.9N / 1401453.4E
DREAD	360359.2N / 1395856.9E	WEDGE	350900.4N / 1395846.5E
GODIN	362425.3N / 1401655.9E	XAC	344244.1N / 1392450.5E
KAIHO	351857.8N / 1394642.4E		

CHANGE : HLDG pattern (CHIBA) established.

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Visual REP



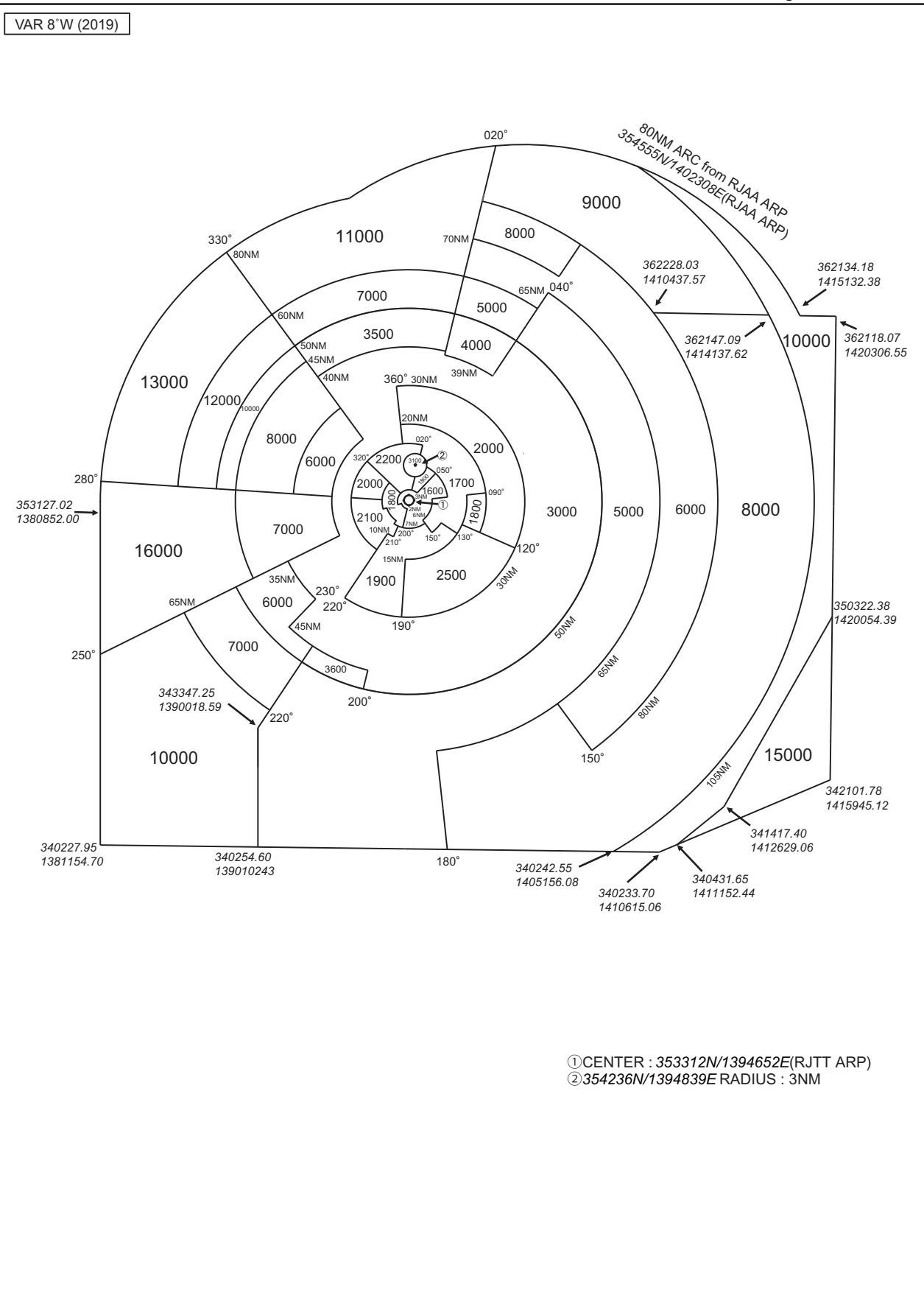
※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

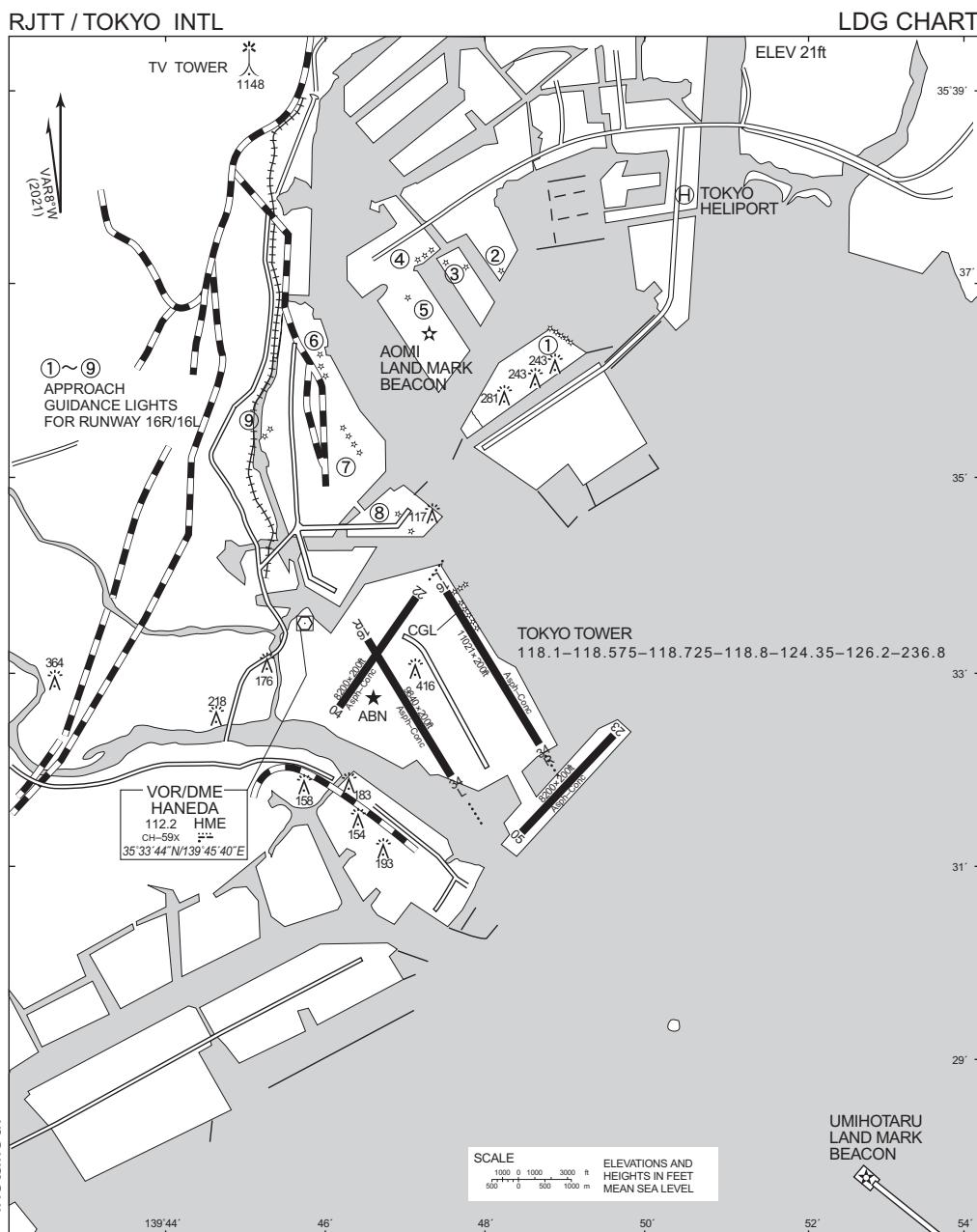
Call sign	BRG / DIST from ARP	Remarks
渋谷 Shibuya	328°T / 7.4NM	JR駅 JR Station
品川 Shinagawa	336°T / 5.0NM	JR駅 JR Station
洗足 Senzoku	303°T / 5.3NM	池 Pond
丸子橋 Marukobashi	289°T / 5.8NM	橋 Bridge
多摩川大橋 Tamagawaohashi	272°T / 4.2NM	橋 Bridge
新川崎 Shinkawasaki	269°T / 5.4NM	JR駅 JR Station
大師橋 Daishibashi	253°T / 2.0NM	橋 Bridge
六郷橋 Rokugobashi	255°T / 3.7NM	橋 Bridge
扇島 Ogijima	221°T / 5.9NM	扇島の西端 West edge of the island
ベイブリッジ Bay Bridge	221°T / 7.9NM	(首都高速湾岸線)橋 Bridge

CHANGE : VAR.

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Minimum Vectoring Altitude CHART



**PAPI:**

RWY16L-3.0°, MEHT 19.9m (65ft)

412m inside from THR.

RWY16L-3.25°, MEHT 19.9m(65ft)

378m inside from THR.

RWY34R-3.0°, MEHT 20.0m (66ft)

416m inside from THR.

RWY16R-3.0°, MEHT 19.9m (65ft)

432m inside from THR.

RWY16R-3.25°, MEHT 19.9m(65ft)

397m inside from THR.

RWY34L-3.0°, MEHT 20.0m (66ft)

449m inside from THR.

RWY04-3.0°, MEHT 18.5m (61ft)

369m inside from THR.

RWY22-3.0°, MEHT 19.5m (63ft)

438m inside from THR.

RWY23-3.0°, MEHT 20.0m (66ft)

452m inside from THR.

**RWY Grooving :**

RWY16L/34R 3360m X 40m

RWY16R/34L 3000m X 40m

RWY04/22 2500m X 40m

RWY05/23 2500m X 40m

## Attachment-1

Local flying restriction of Tokyo INTL AP

Unless otherwise authorized by ATC.

Aircraft other than the arriving at and/or departing from Tokyo International Airport are required not to fly over the Kawasaki Petrochemical Complex area, and even in case of flying over the area, not to fly below an altitude of 3,000 feet.

