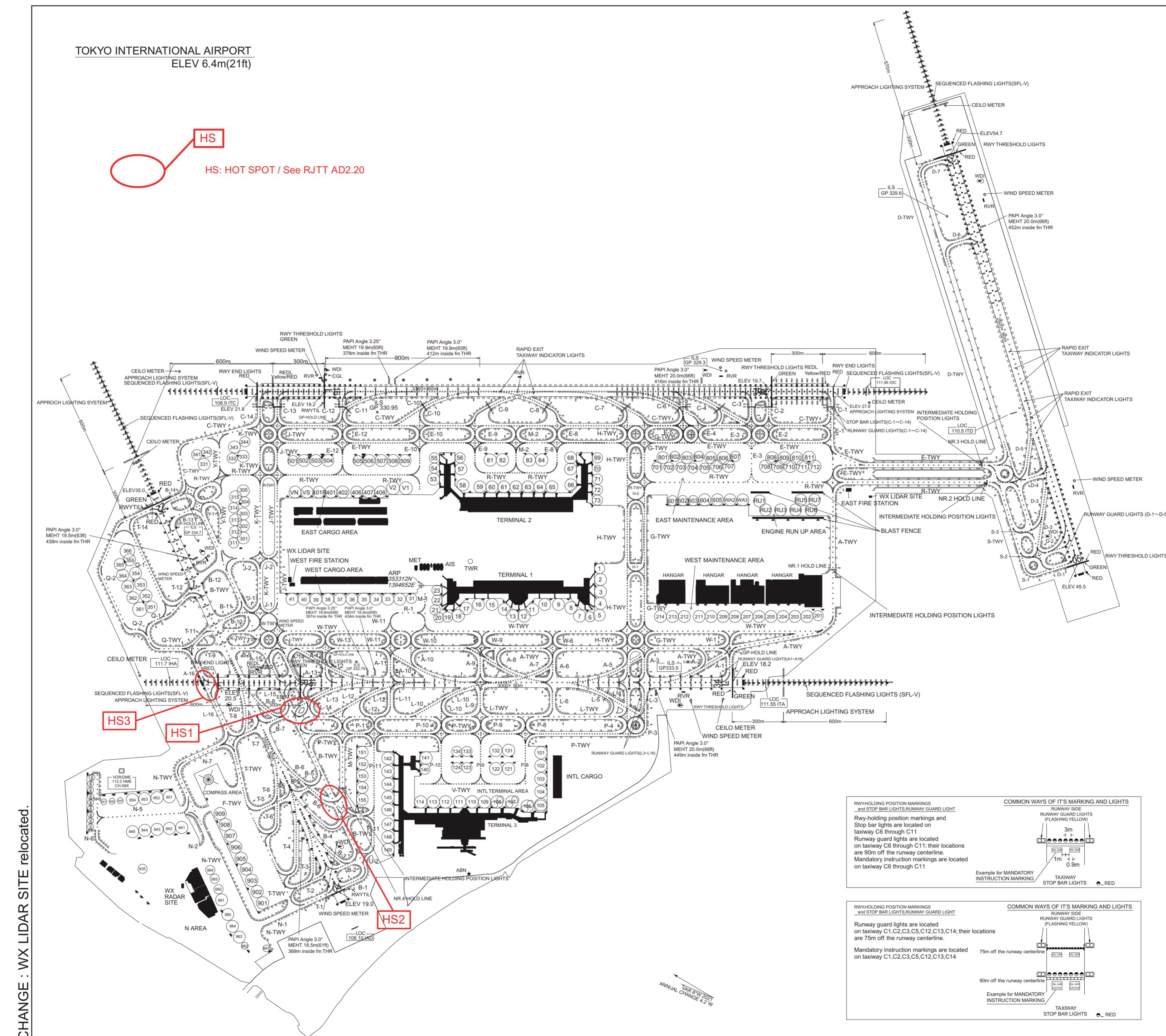


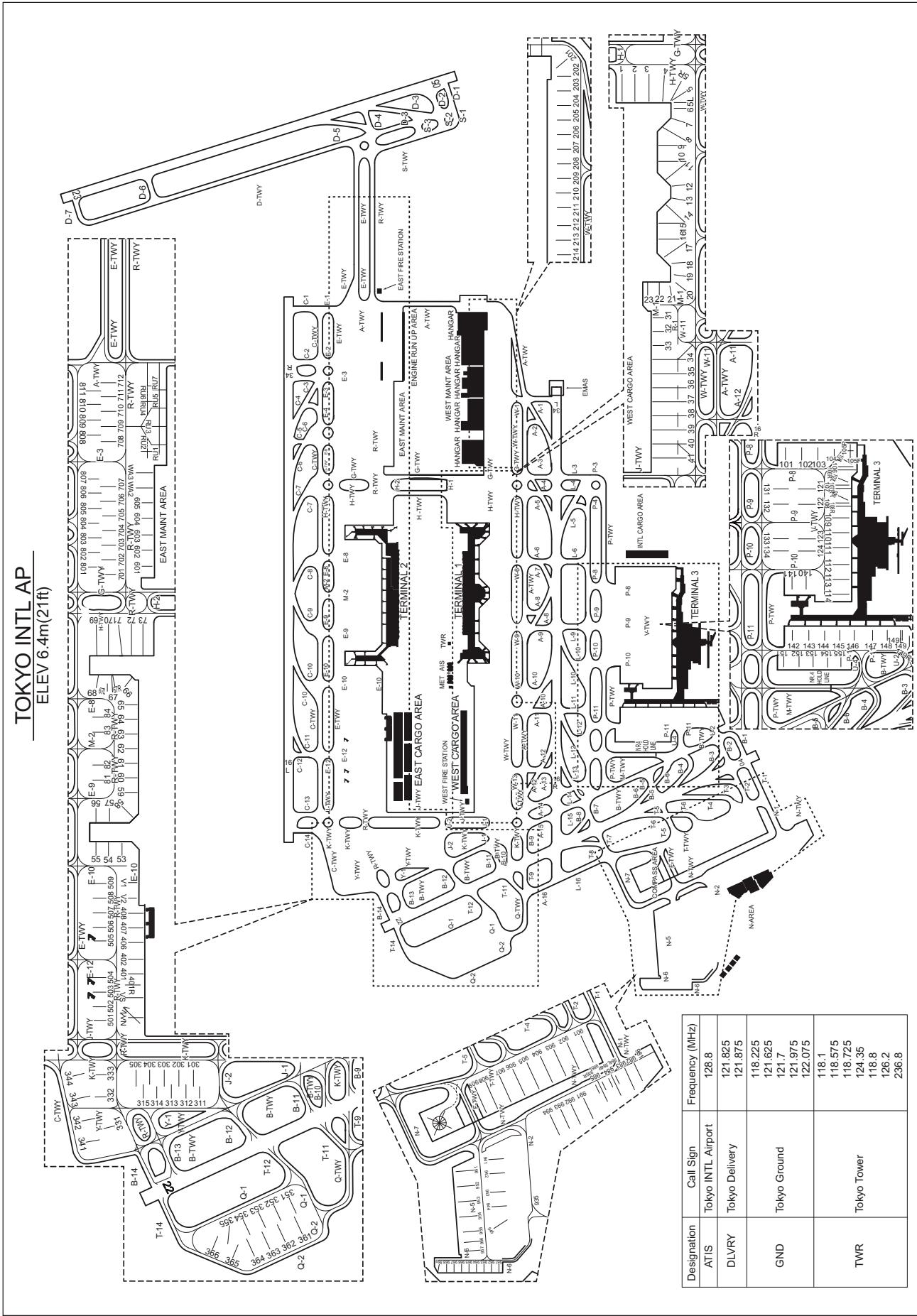
AERODROME CHART



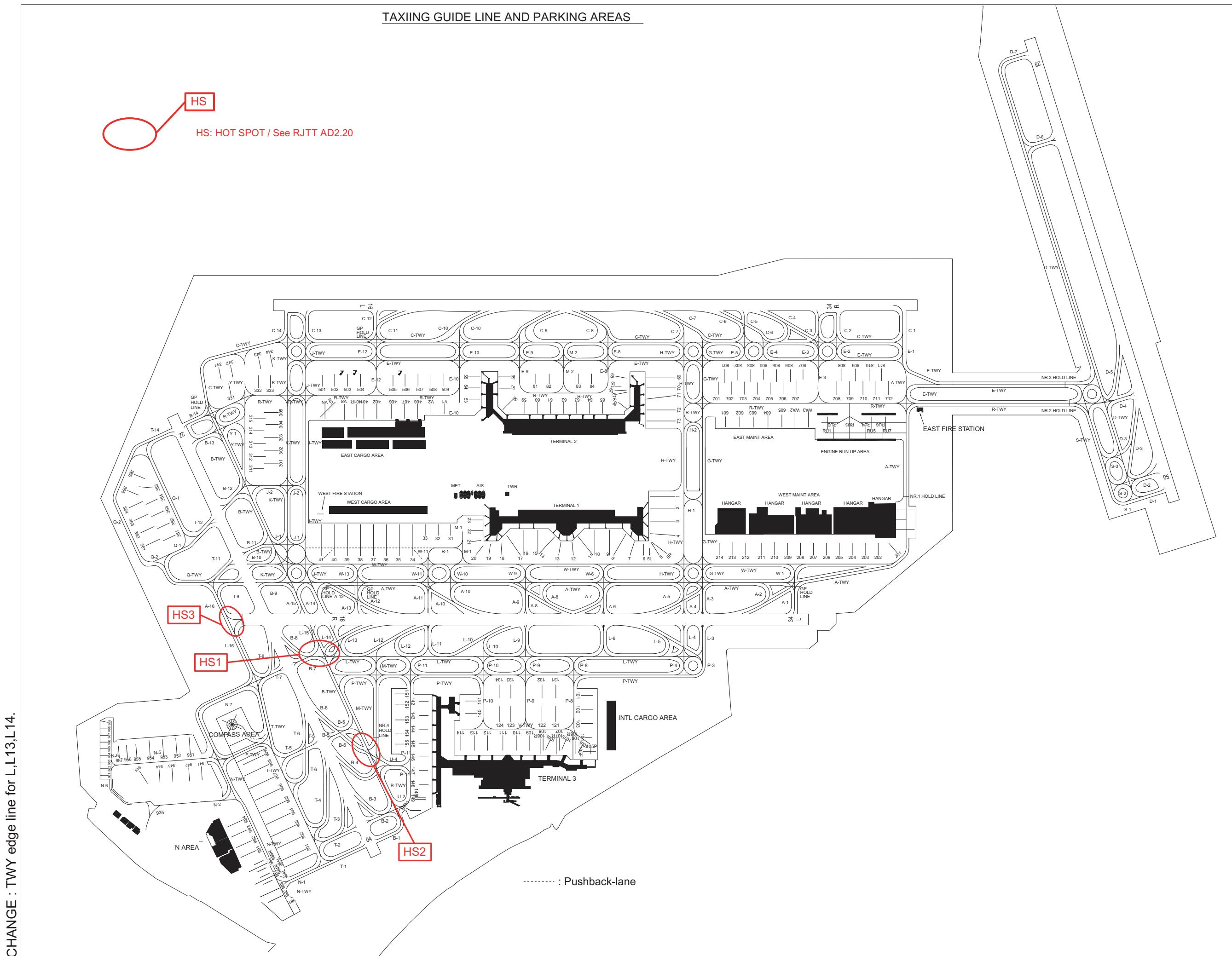
RJTT / TOKYO INTL

AD CHART

CHANGE : TWY edge line for L,L13,L14.

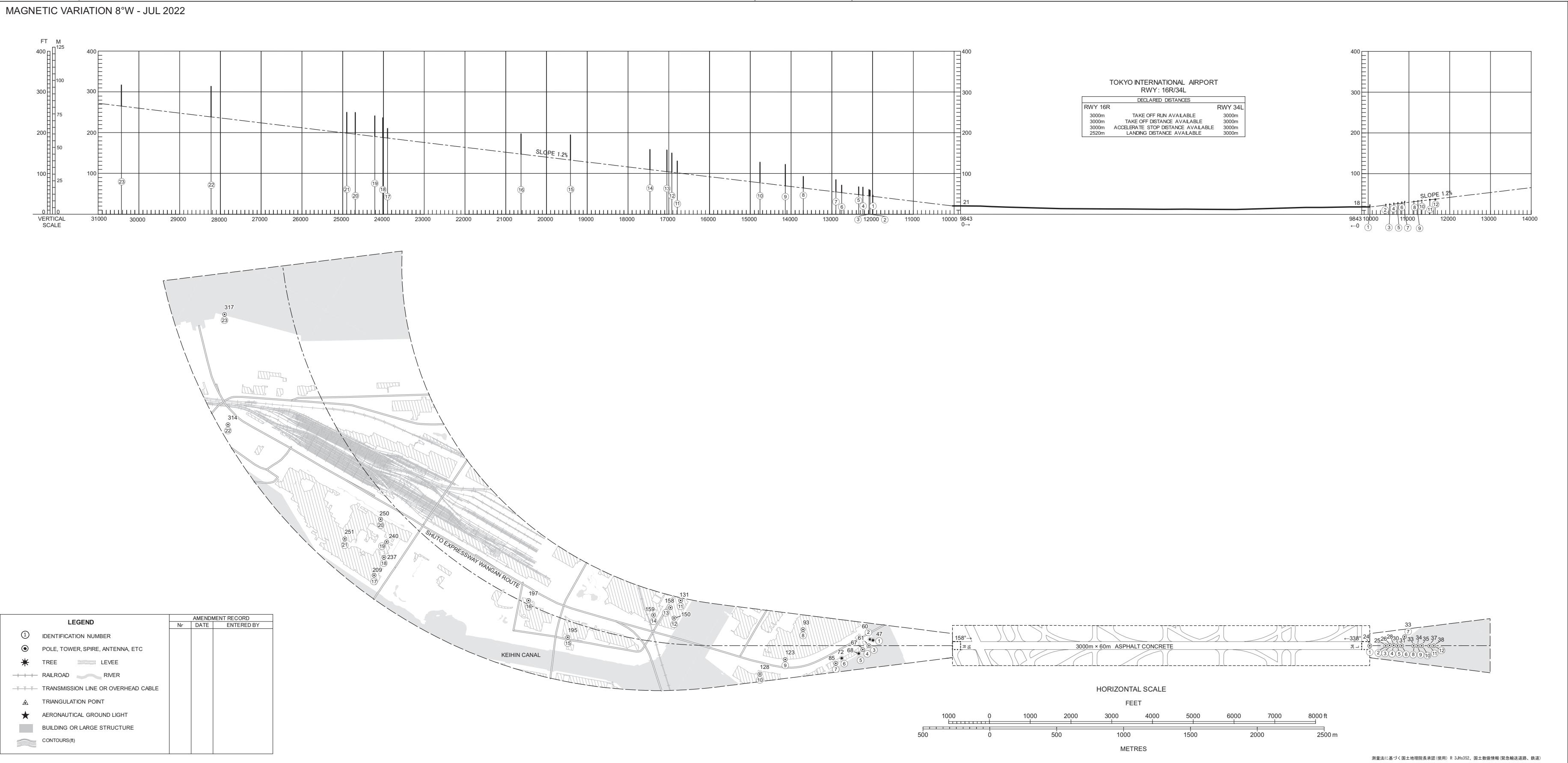


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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

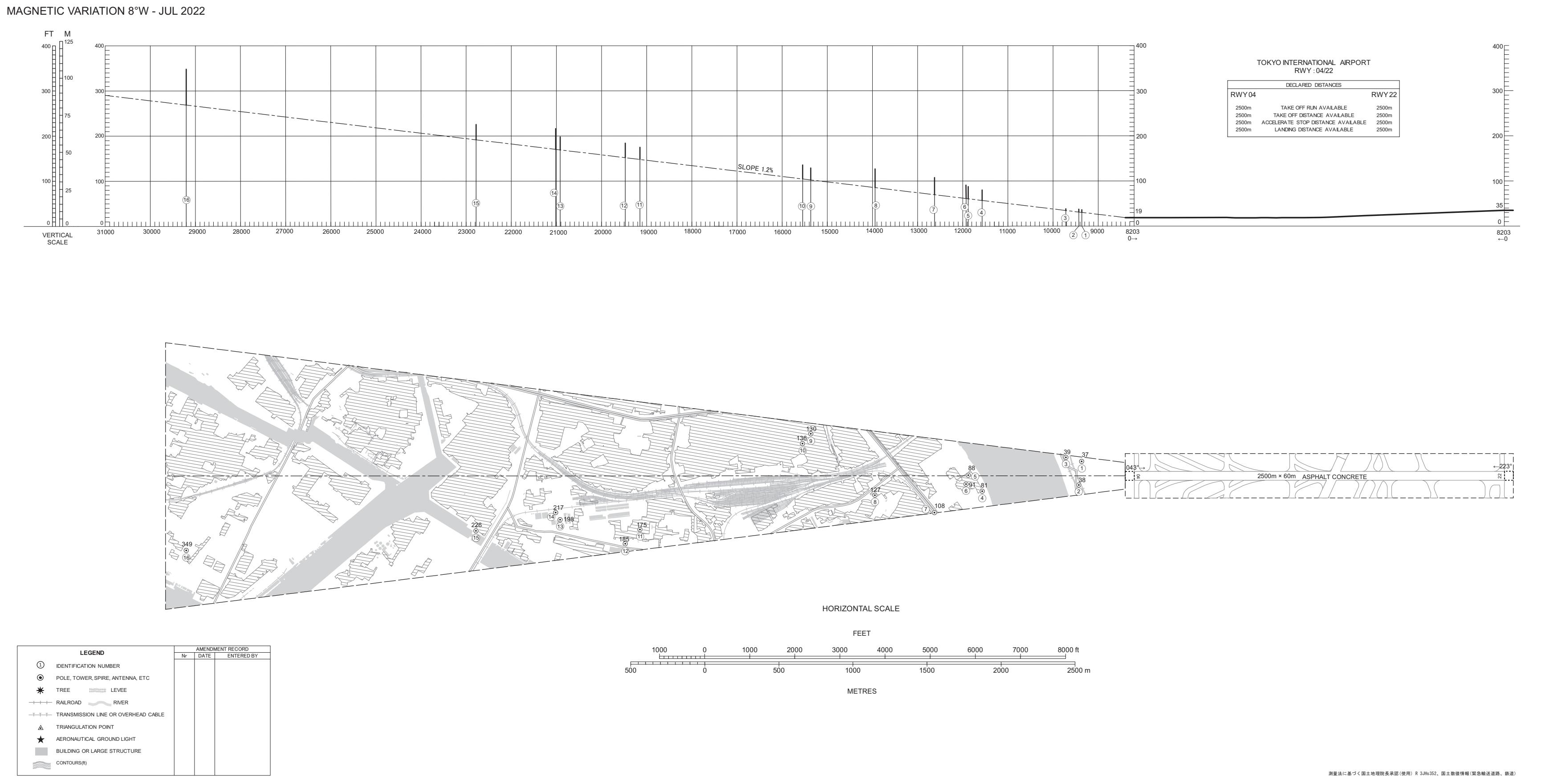
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



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

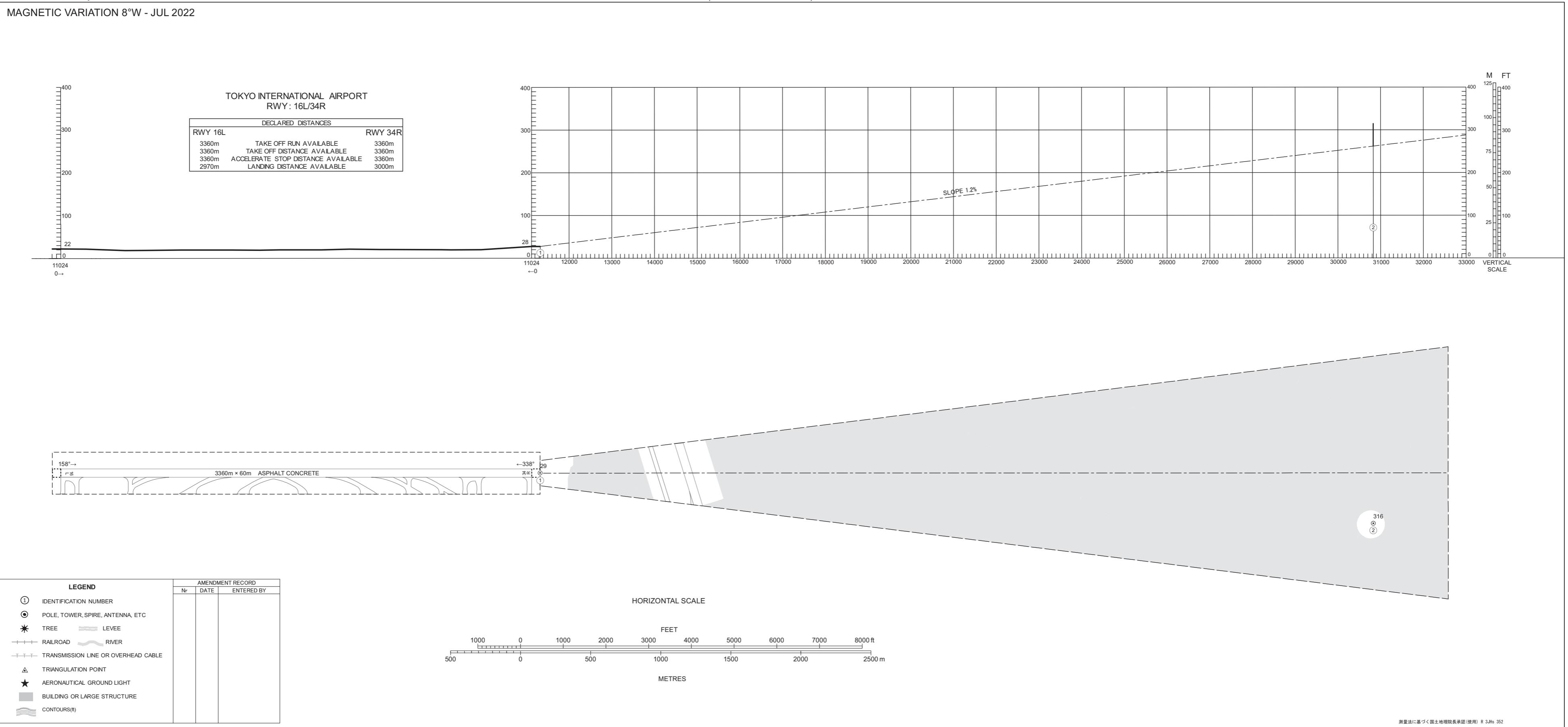
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



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.



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.



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 7° W(2016)

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	—	—	-7.4	—	—	+9000	—	—	RNAV1
002	TF	JYOGA	—	224 (217.1)	-7.4	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	—	—	-7.4	—	—	+9000	—	—	RNAV1
002	TF	UTIBO	—	170 (162.7)	-7.4	26.7	—	+FL150	—	—	RNAV1

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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.



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

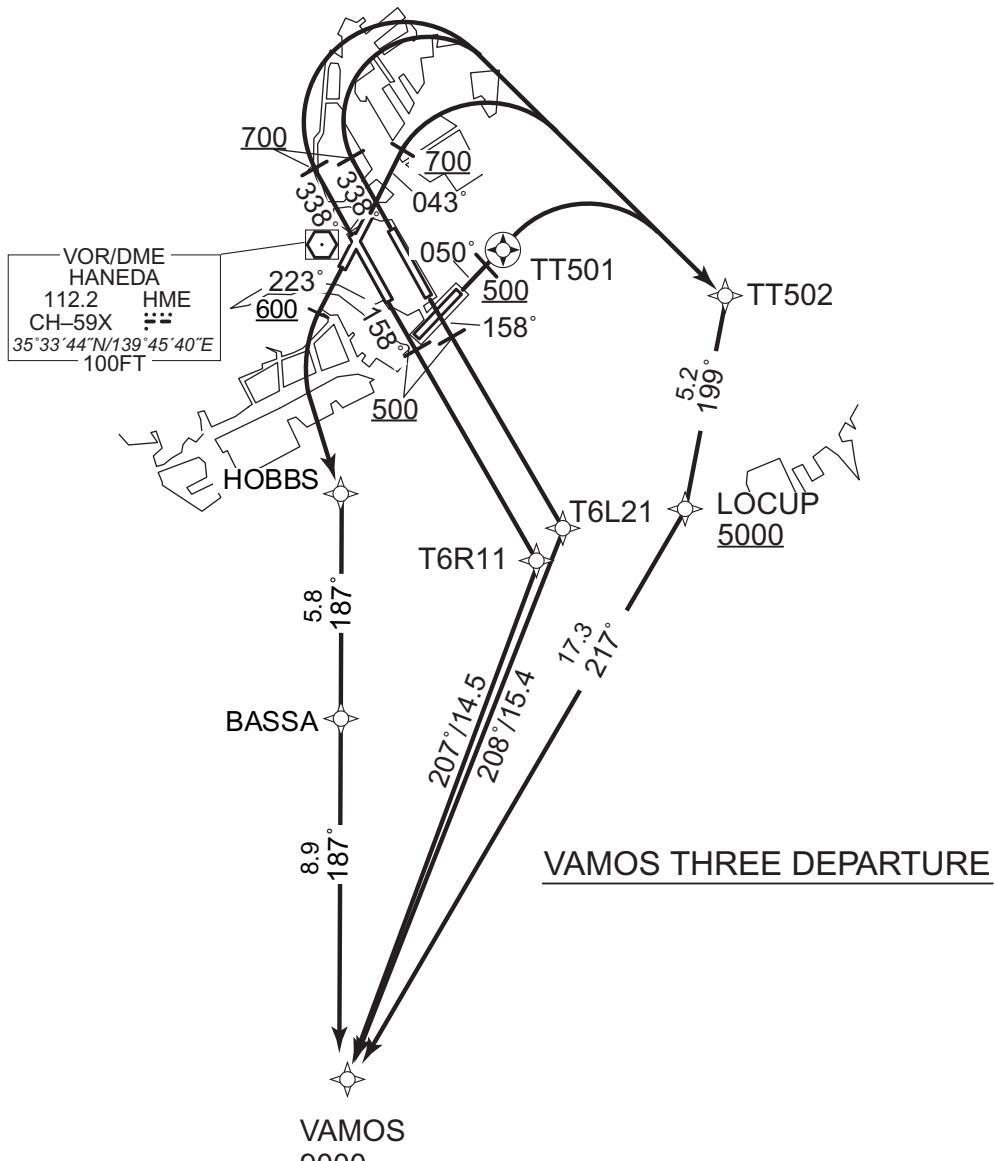
RJTT/TOKYO INTL

RNAV SID

VAMOS THREE 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	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(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS THREE 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 THREE 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	207 (199.5)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	208 (200.7)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	VAMOS	—	217 (209.5)	-7.6	17.3	—	+9000	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY34L/RWY34R:NR003(Course), RWY04:NR001,003(Course).

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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	VAMOS	—	217 (209.5)	-7.6	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)	-7.6	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	BASSA	—	187 (179.9)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	VAMOS	—	187 (179.9)	-7.6	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

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	—			
VAR8°W(2019)					
<p>The chart shows the departure routes from OSHIMA (XAC). The DRAKY TRANSITION route goes from OSHIMA (XAC) to DRAKY via a bearing of 218°, then to VAMOS (9000ft) via a bearing of 222°. The TATEYAMA TRANSITION route goes from OSHIMA (XAC) to TATEYAMA via a bearing of 218°, then to UTIBO via a bearing of 068°. The RNAV1 route goes directly from OSHIMA (XAC) to VAMOS (9000ft) via a bearing of 222°. The chart also includes callouts for TACAN TATEYAMA and DME TATEYAMA, and a VORTAC OSHIMA reference point.</p> <table border="1"> <tr> <td>TACAN TATEYAMA 986 CH-25X 34°58'15"N/139°50'17"E 500FT</td> </tr> <tr> <td>DME TATEYAMA 1159 PQD CH-72X 34°56'46"N/139°53'43"E 600FT</td> </tr> <tr> <td>VORTAC OSHIMA 113.1 CH-78X 34°42'44"N/139°24'50"E 2100FT</td> </tr> </table>			TACAN TATEYAMA 986 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	VORTAC OSHIMA 113.1 CH-78X 34°42'44"N/139°24'50"E 2100FT
TACAN TATEYAMA 986 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					
VORTAC OSHIMA 113.1 CH-78X 34°42'44"N/139°24'50"E 2100FT					

CHANGE : New PROC

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	–	–	-7.5	–	–	+9000	–	–	RNAV1
002	TF	UTIBO	–	165 (157.0)	-7.5	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	–	–	-7.5	–	–	+9000	–	–	RNAV1
002	TF	DRAKY	–	218 (210.2)	-7.5	22.2	–	–	–	–	RNAV1
003	TF	XAC	–	218 (210.1)	-7.5	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 THREE DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off 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(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04,22. Course FM TT502 to LOCUP. Course FM BASSA to UMUKI.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS THREE 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 THREE 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TAURA	—	226 (218.1)	-7.6	9.0	—	+9000	—	—	RNAV1
004	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
005	TF	LAXAS	—	266 (258.6)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TAURA	—	226 (218.1)	-7.6	10.0	—	+9000	—	—	RNAV1
004	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
005	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY34L/RWY34R.NR003(Course).

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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	TAURA	—	235 (227.3)	-7.6	12.6	—	+9000	—	—	RNAV1
005	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
006	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	TAURA	—	235 (227.3)	-7.6	12.6	—	+9000	—	—	RNAV1
005	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
006	TF	LAXAS	—	266 (258.6)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TAURA	—	235 (227.3)	-7.6	12.6	—	+9000	—	—	RNAV1
006	TF	IMOLA	—	228 (220.5)	-7.6	18.8	—	+FL150	—	—	RNAV1
007	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY04:NR001,003(Course). RWY05:NR004(Course).

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)	-7.6	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	BASSA	—	187 (179.9)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.6	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.6	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.6	5.5	—	—	—	—	RNAV1
007	TF	IMOLA	—	266 (258.7)	-7.6	9.1	—	+FL150	—	—	RNAV1
008	TF	LAXAS	—	266 (258.6)	-7.6	12.8	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY22:NR001,004(Course).

Waypoint Coordinates

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

CHANGE : PROC renamed. VAR, HDG after DEP FM RWY04/22. Course FM TT502 to LOCUP. Course FM TT631 to BAYGE. Course FM BASSA to UMUKI.

NINOX THREE DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off 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 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(2020)		
<p>NINOX THREE DEPARTURE</p>		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX THREE 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.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX THREE 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R12	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TT631	—	247 (239.8)	-7.6	5.6	—	—	—	—	RNAV1
004	TF	BAYGE	—	335 (327.0)	-7.6	5.0	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L22	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	TT631	—	247 (239.8)	-7.6	6.6	—	—	—	—	RNAV1
004	TF	BAYGE	—	335 (327.0)	-7.6	5.0	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	BAYGE	—	268 (260.6)	-7.6	10.5	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
004	TF	BAYGE	—	268 (260.6)	-7.6	10.5	—	+9000	—	—	RNAV1
005	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
006	TF	NINOX	—	281 (272.9)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	BAYGE	—	268 (260.6)	-7.6	10.5	—	+9000	—	—	RNAV1
006	TF	SEIKO	—	295 (287.8)	-7.6	11.4	—	+13000	—	—	RNAV1
007	TF	NINOX	—	281 (272.9)	-7.6	16.5	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY04:NR001,003,006(Course). RWY05:NR004,007(Course).

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)	-7.6	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	BASSA	—	187 (179.9)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.6	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.6	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.6	5.5	—	—	—	—	RNAV1
007	TF	CURVA	—	300 (292.2)	-7.6	8.2	—	+FL150	—	—	RNAV1
008	TF	NINOX	—	327 (319.6)	-7.6	27.1	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY22:NR001,004(Course).

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		

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

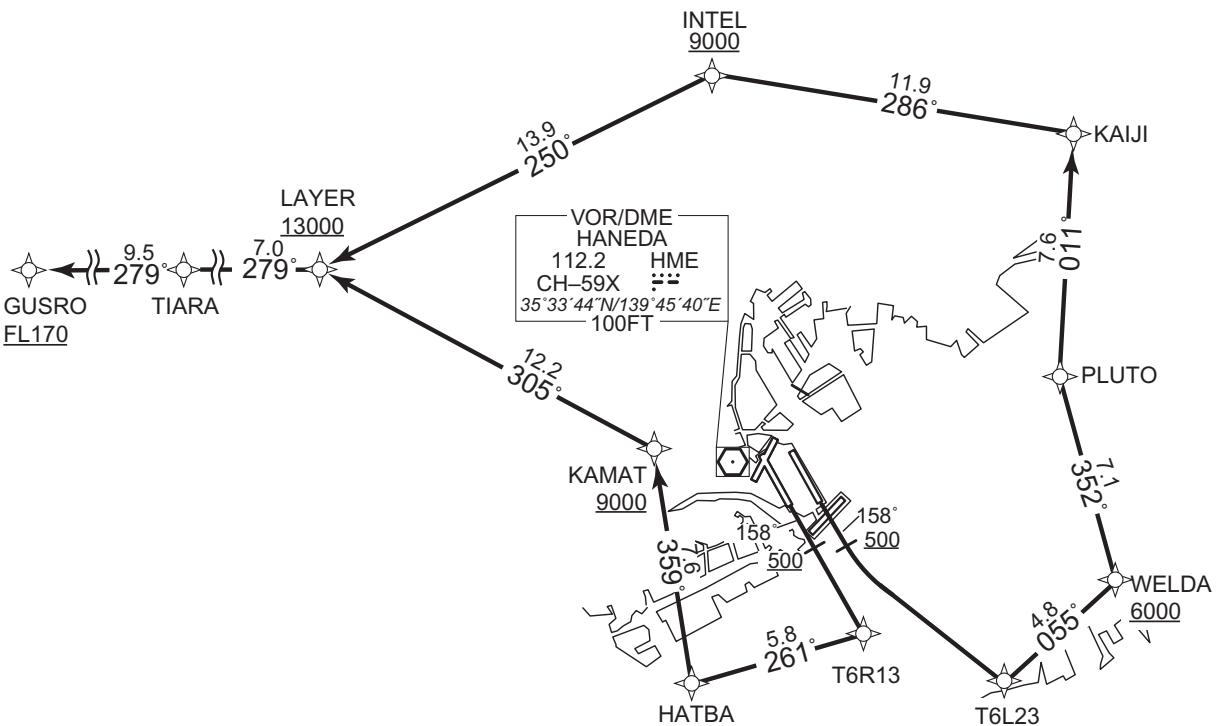
RNAV SID

TIARA ONE 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	RNAV1 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 - 6.9NM to LAYER 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 - 6.9NM to LAYER 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 - 6.9NM to LAYER 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 - 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 ONE A DEPARTURE RWY16R/16L

CHANGE : New PROC.

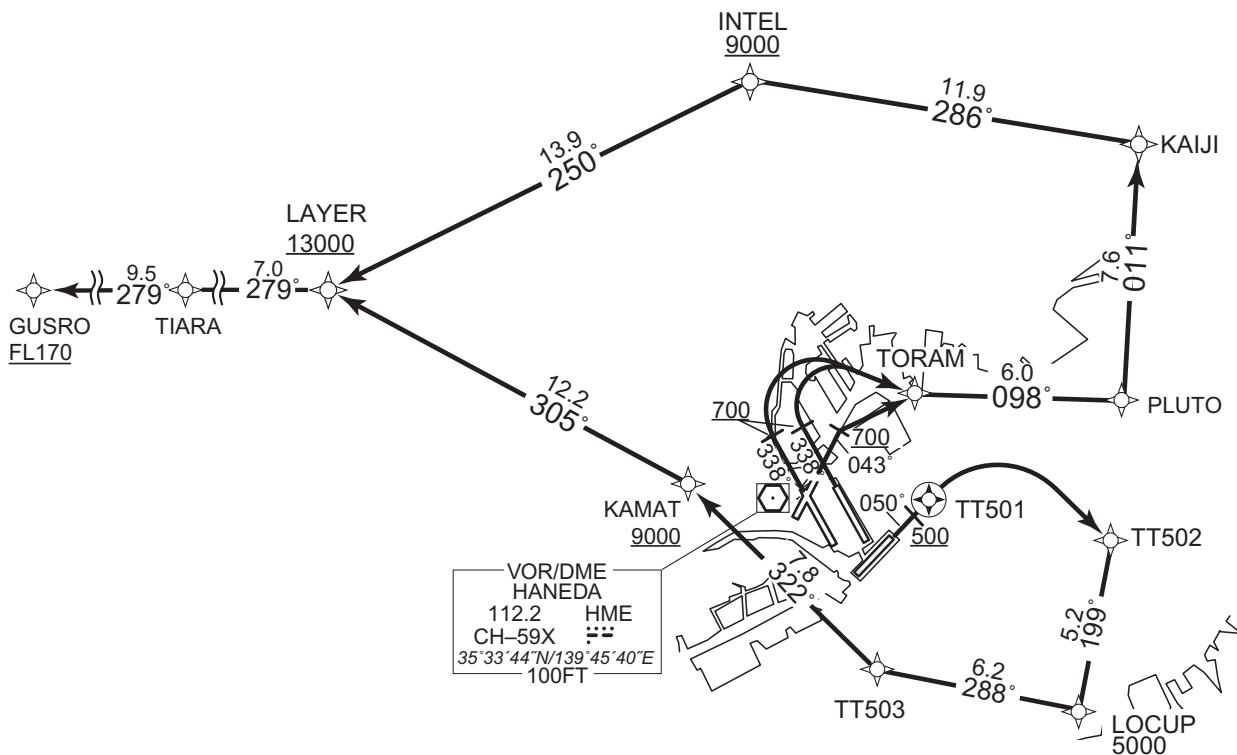


STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

TIARA ONE A DEPARTURE RWY 34L/34R/04/05

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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 : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	HATBA	—	261 (253.8)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.6	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
006	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
007	TF	GUSRO	—	279 (271.1)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

CHANGE : New PROC.

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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.6	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 : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

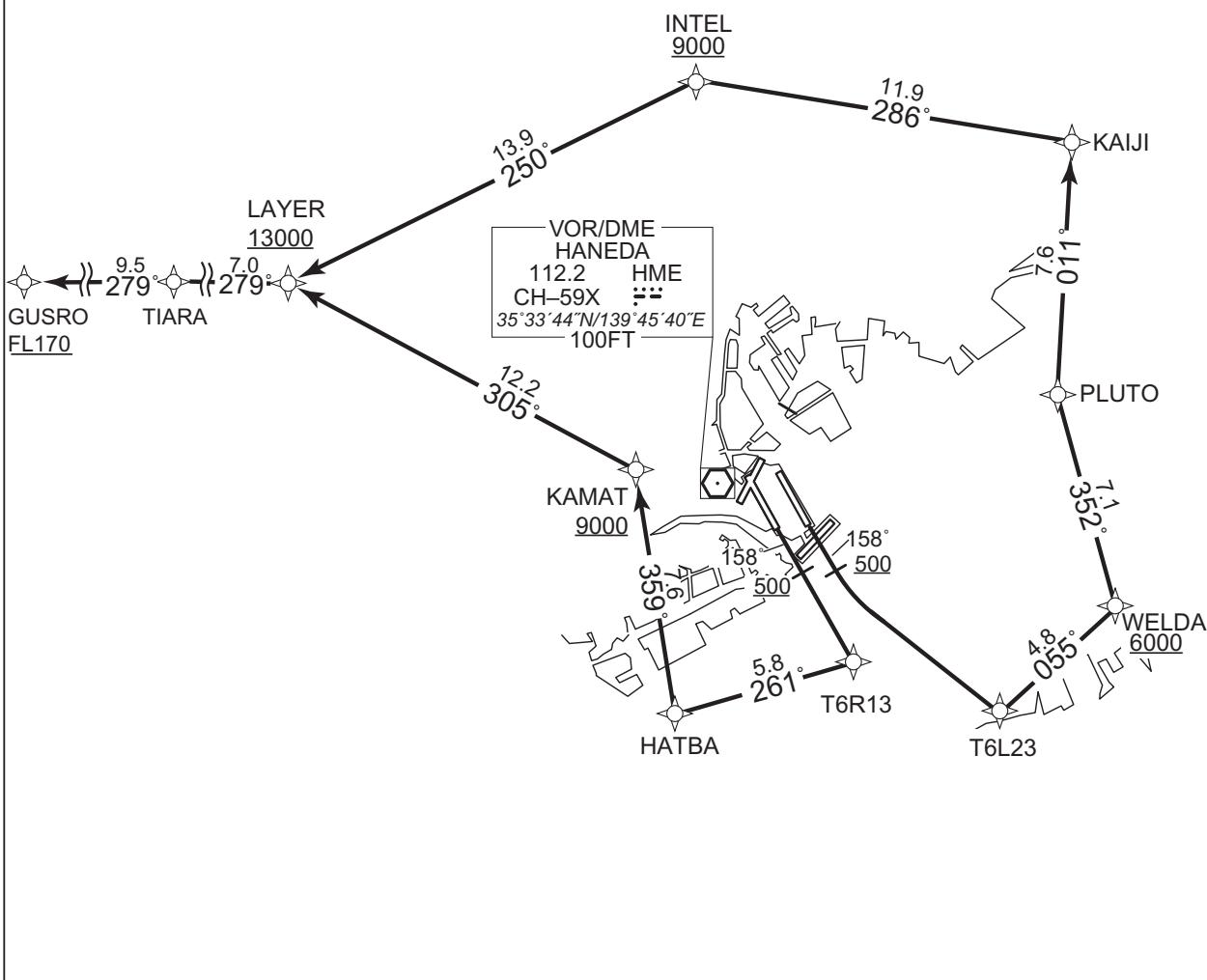
RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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 ONE B DEPARTURE RWY16R/16L



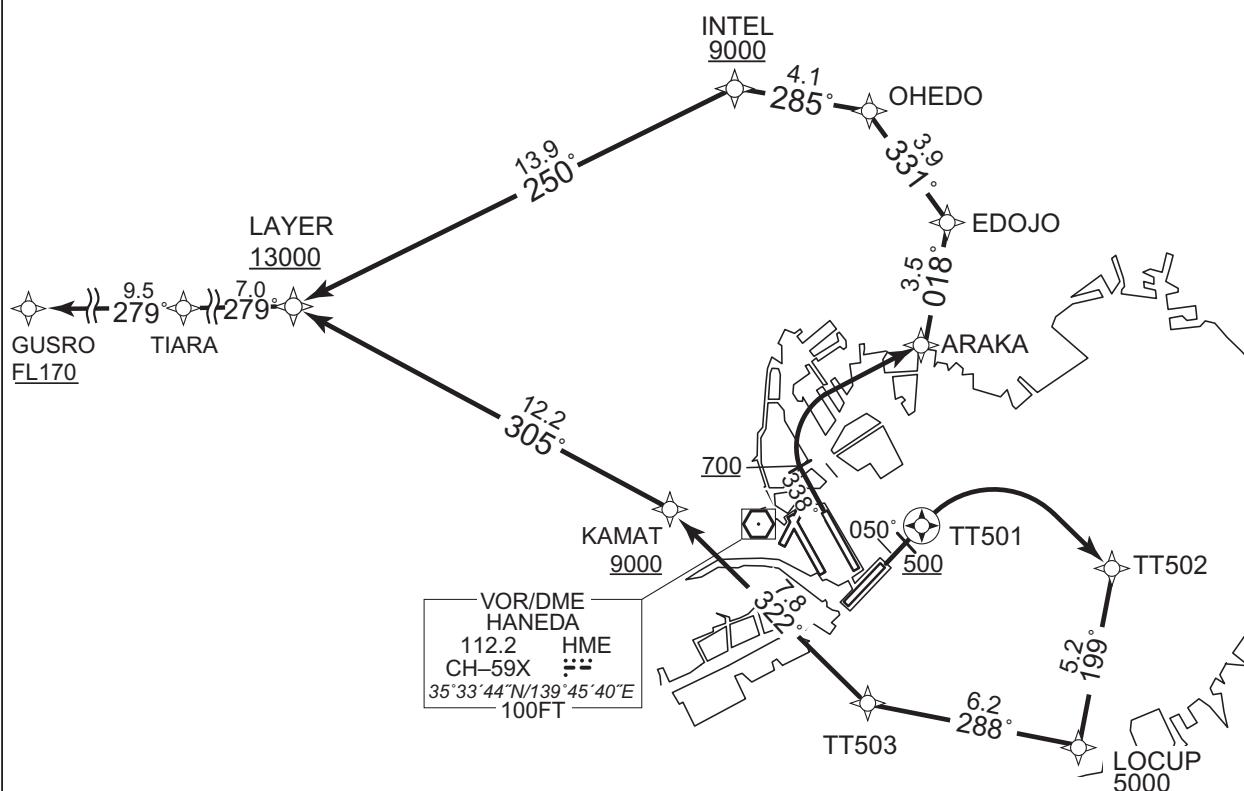
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

TIARA ONE B DEPARTURE RWY 34R/05



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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 EDOJO, 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 : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R13	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	HATBA	–	261 (253.8)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	KAMAT	–	359 (351.1)	-7.6	7.6	–	+9000	–	–	RNAV1
005	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
006	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
007	TF	GUSRO	–	279 (271.1)	-7.6	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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
008	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
009	TF	GUSRO	–	279 (271.1)	-7.6	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)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	LAYER	–	250 (242.4)	-7.6	13.9	–	+13000	–	–	RNAV1
007	TF	TIARA	–	279 (271.2)	-7.6	7.0	–	–	–	–	RNAV1
008	TF	GUSRO	–	279 (271.1)	-7.6	9.5	–	+FL170	–	–	RNAV1

CHANGE : New PROC.

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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	OHEDO	354523.4N / 1394838.6E
EDOJO	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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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

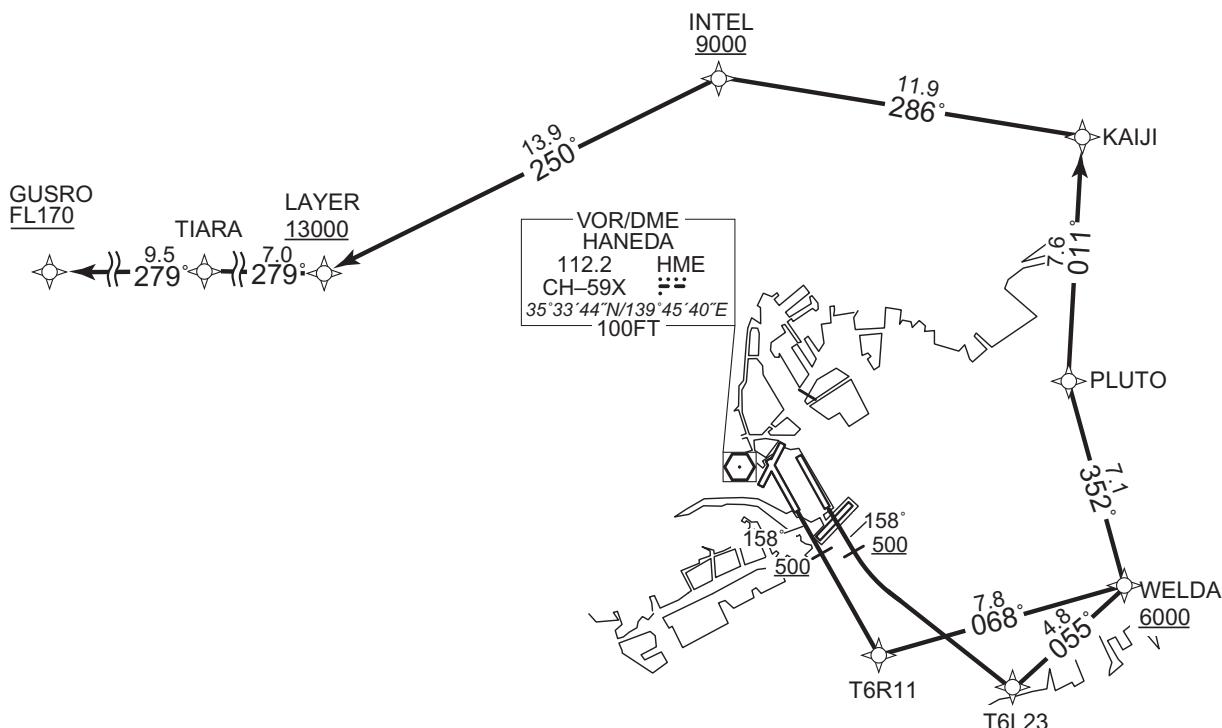
4.8NM to KAMAT - 3.8NM to KAMAT

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

VAR8°W

TIARA ONE C DEPARTURE RWY16R/16L

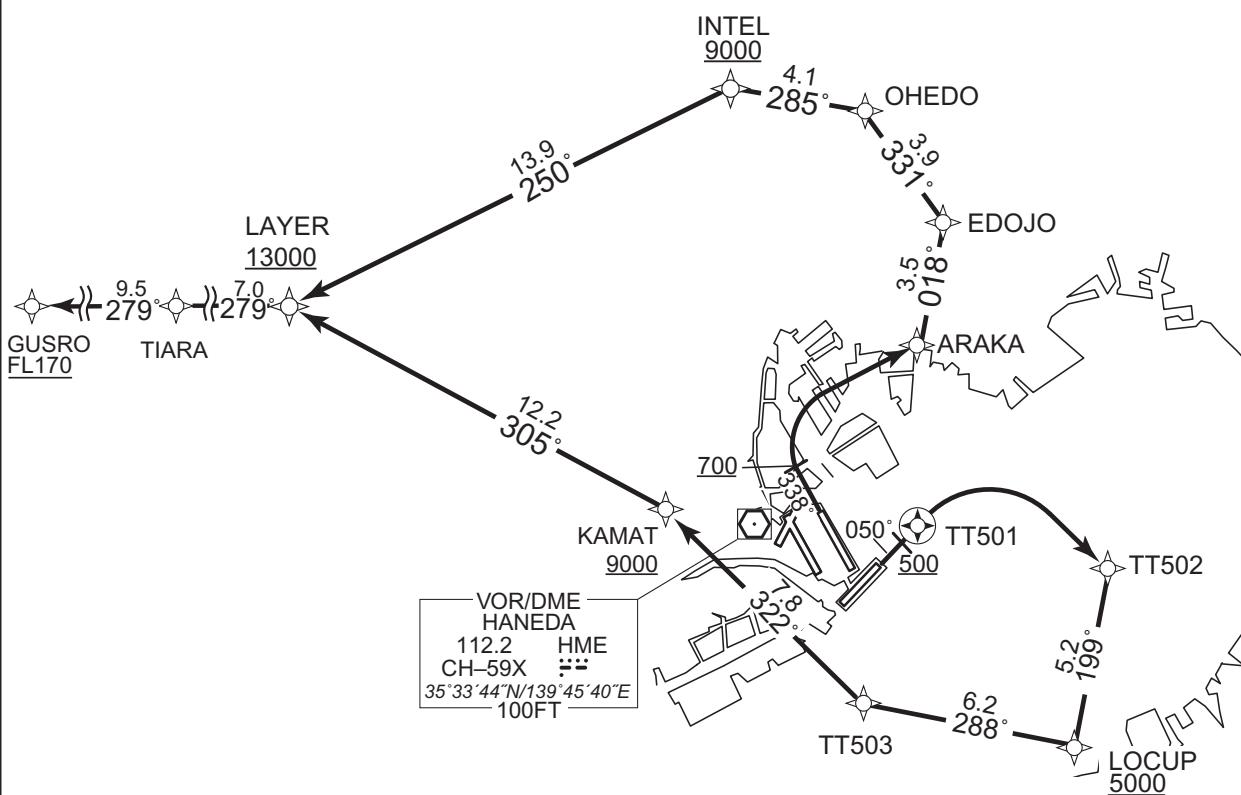


STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

TIARA ONE C DEPARTURE RWY 34R/05

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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 EDOJO, 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 : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
008	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
009	TF	GUSRO	—	279 (271.1)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.6	4.1	—	+9000	—	—	RNAV1
006	TF	LAYER	—	250 (242.4)	-7.6	13.9	—	+13000	—	—	RNAV1
007	TF	TIARA	—	279 (271.2)	-7.6	7.0	—	—	—	—	RNAV1
008	TF	GUSRO	—	279 (271.1)	-7.6	9.5	—	+FL170	—	—	RNAV1

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)	-7.6	-	-	+500	-	-	RNAV1
002	DF	TT501	Y	-	-7.6	-	-	-	-	-	RNAV1
003	DF	TT502	-	-	-7.6	-	R	-	-	-	RNAV1
004	TF	LOCUP	-	199 (190.9)	-7.6	5.2	-	+5000	-	-	RNAV1
005	TF	TT503	-	288 (280.8)	-7.6	6.2	-	-	-	-	RNAV1
006	TF	KAMAT	-	322 (314.2)	-7.6	7.8	-	+9000	-	-	RNAV1
007	TF	LAYER	-	305 (297.1)	-7.6	12.2	-	+13000	-	-	RNAV1
008	TF	TIARA	-	279 (271.2)	-7.6	7.0	-	-	-	-	RNAV1
009	TF	GUSRO	-	279 (271.1)	-7.6	9.5	-	+FL170	-	-	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	PLUTO	353632.1N / 1395736.8E
EDOJO	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		

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

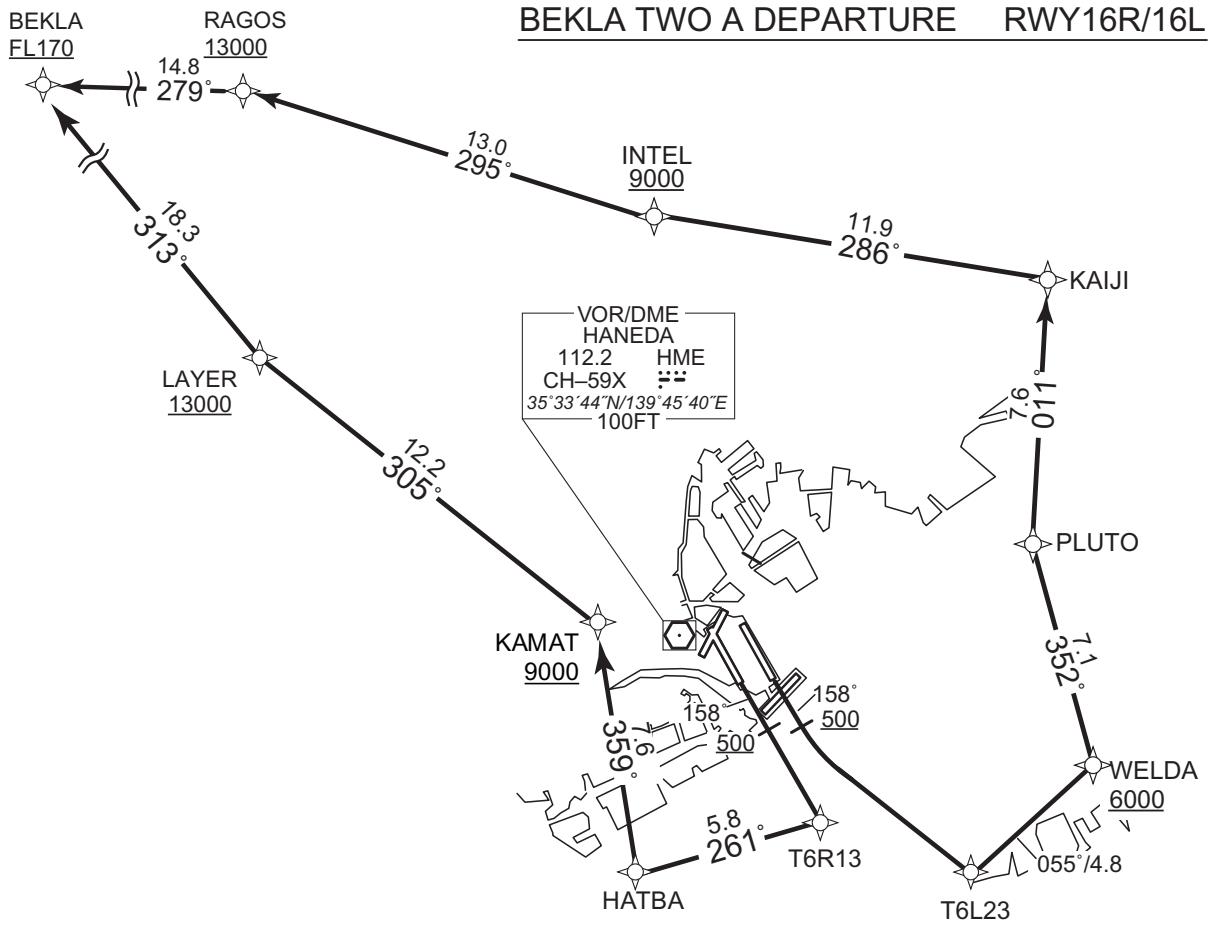
RJTT/TOKYO INTL

RNAV SID

BEKLA 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.		
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(2020)

CHANGE : PROC renamed. VAR. RTE after KAMAT.



STANDARD DEPARTURE CHART-INSTRUMENT

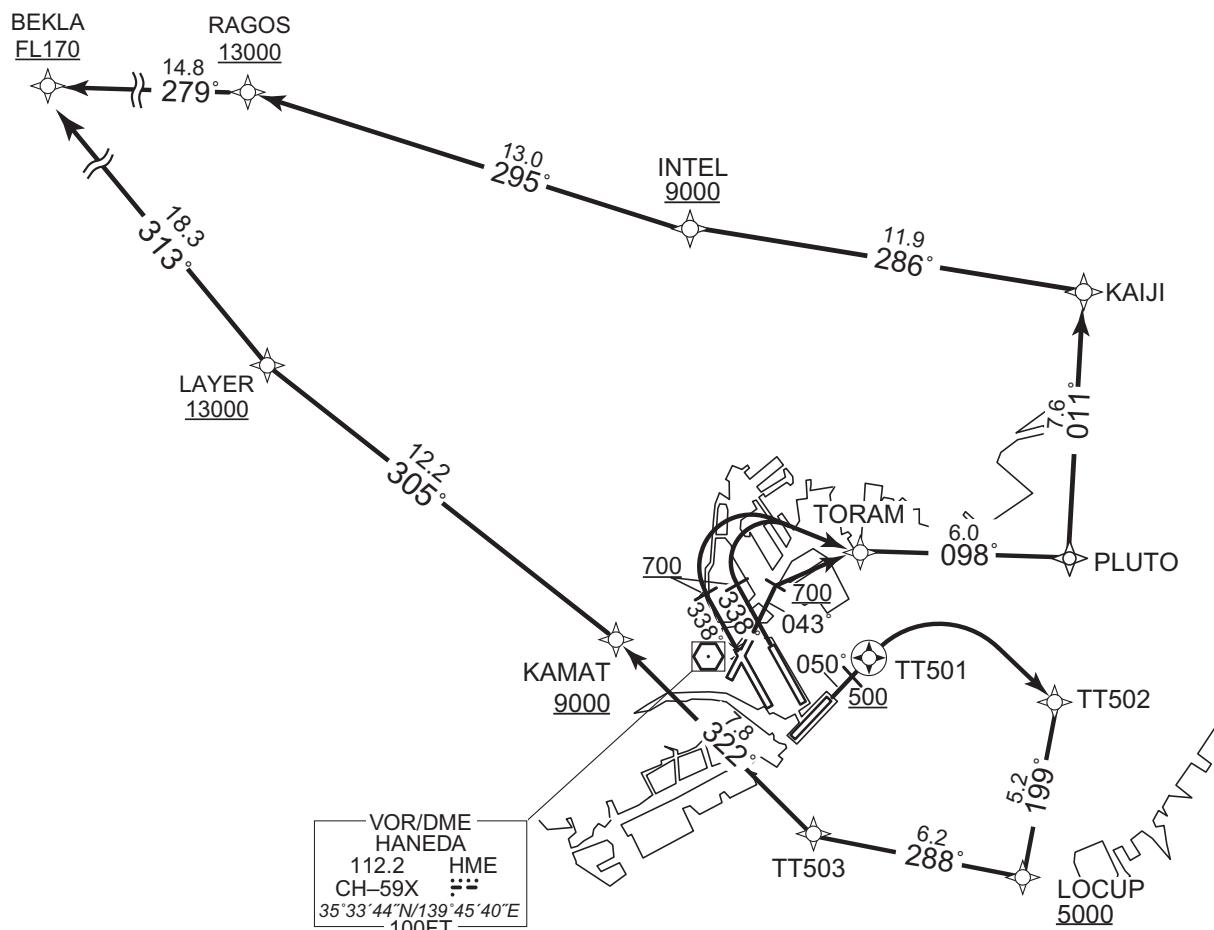
RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

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

CHANGE : PROC renamed. VAR. RTE after KAMAT. Course FM TT502 to LOCUP. HDG after DEP FM RWY04.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA 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 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.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	HATBA	—	261 (253.8)	-7.6	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.6	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
006	TF	BEKLA	—	313 (305.4)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY16R:RTE after KAMAT.

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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.6	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 : Magnetic Variation. RWY04:NR001(Course), RWY05:NR004(Course), RTE after KAMAT. Waypoint Coordinates(LAYER added).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO 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(2020)

CHANGE : PROC renamed. VAR. RTE after KAMAT.

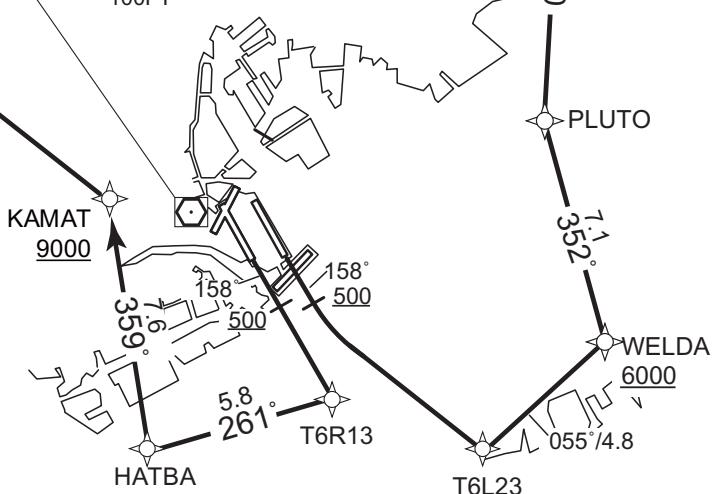
BEKLA
FL170

RAGOS
13000

BEKLA TWO B DEPARTURE

RWY16R/16L

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

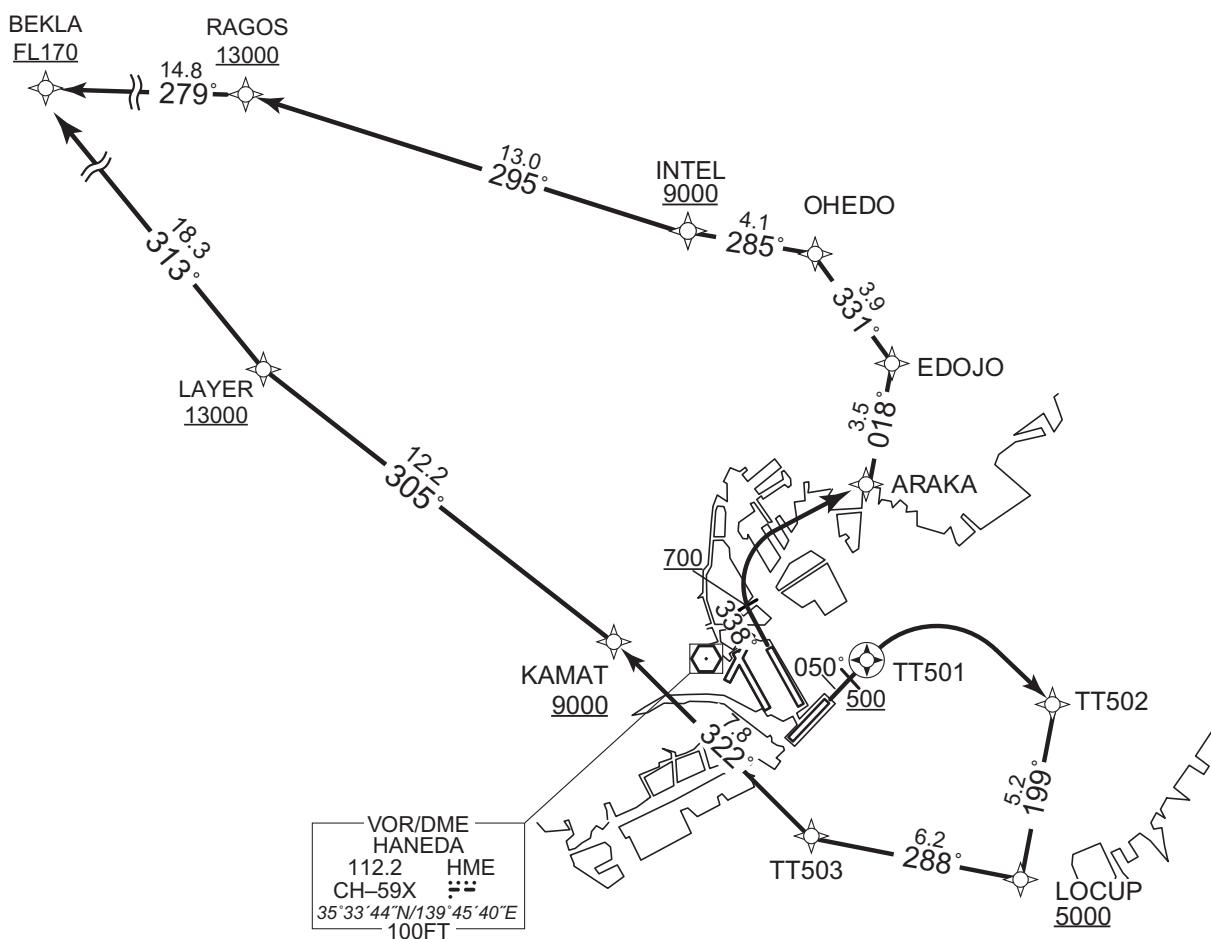


STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

BEKLA TWO B DEPARTURE RWY34R/05

CHANGE : PROC renamed. VAR. RTE after KAMAT. Course FM TT502 to LOCUP.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO 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 EDOJO, 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. RTE after KAMAT(RWY16R,05).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO 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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R13	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	HATBA	–	261 (253.8)	-7.6	5.8	–	–	–	–	RNAV1
004	TF	KAMAT	–	359 (351.1)	-7.6	7.6	–	+9000	–	–	RNAV1
005	TF	LAYER	–	305 (297.1)	-7.6	12.2	–	+13000	–	–	RNAV1
006	TF	BEKLA	–	313 (305.4)	-7.6	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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	INTEL	–	286 (278.4)	-7.6	11.9	–	+9000	–	–	RNAV1
007	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
008	TF	BEKLA	–	279 (271.2)	-7.6	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)	-7.6	–	–	+700	–	–	RNAV1
002	DF	ARAKA	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	EDOJO	–	018 (010.8)	-7.6	3.5	–	–	–	–	RNAV1
004	TF	OHEDO	–	331 (323.7)	-7.6	3.9	–	–	–	–	RNAV1
005	TF	INTEL	–	285 (277.0)	-7.6	4.1	–	+9000	–	–	RNAV1
006	TF	RAGOS	–	295 (287.2)	-7.6	13.0	–	+13000	–	–	RNAV1
007	TF	BEKLA	–	279 (271.2)	-7.6	14.8	–	+FL170	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation. RWY16R.RTE after KAMAT.

STANDARD DEPARTURE CHART-INSTRUMENT

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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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.6	18.3	—	+FL170	—	—	RNAV1

CHANGE : Magnetic Variation. RWY05:NR004(Course),RTE after KAMAT. Waypoint Coordinates(LAYER added).

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
EDOJO	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

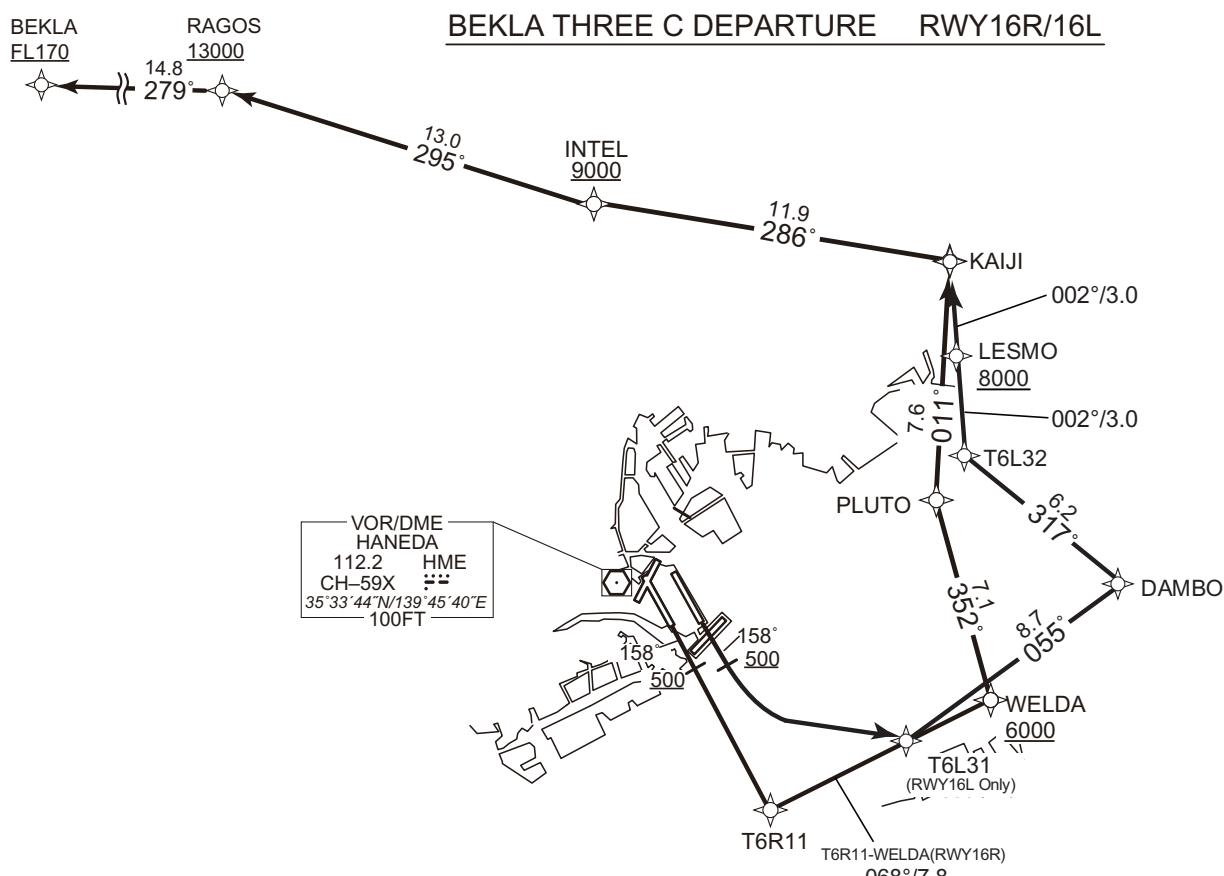
RJTT/TOKYO INTL

RNAV SID

BEKLA 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
Inappropriate Navaids	See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1	

VAR8°W

CHANGE : PROC renamed. PROC course until KAIJI(RWY16L).



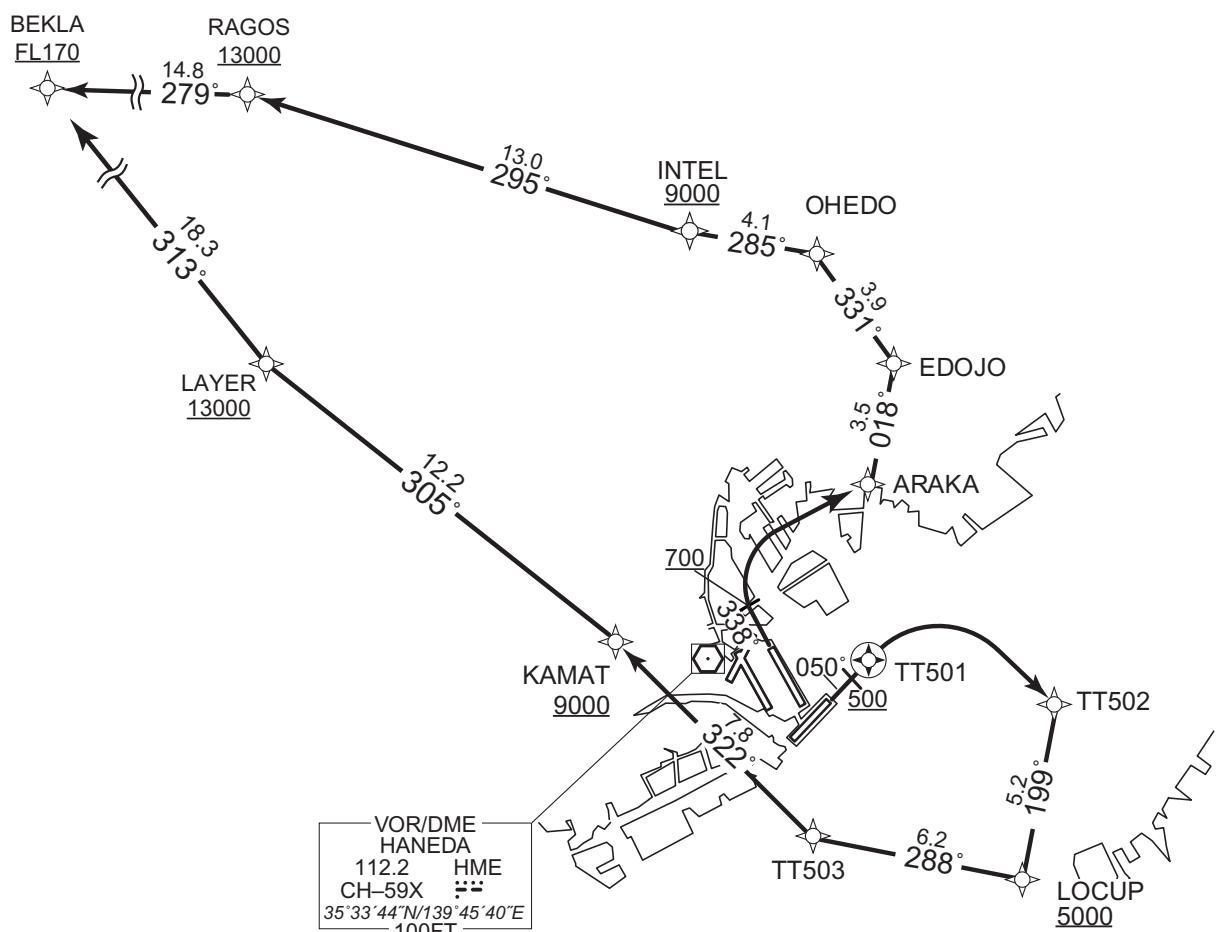
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

BEKLA THREE C DEPARTURE RWY34R/05



CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA 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 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 EDOJO, 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 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
007	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	279 (271.2)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L31	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	DAMBO	—	055 (047.5)	-7.6	8.7	—	—	—	—	RNAV1
004	TF	T6L32	—	317 (309.4)	-7.6	6.2	—	—	—	—	RNAV1
005	TF	LESMO	—	002 (354.1)	-7.6	3.0	—	+8000	—	—	RNAV1
006	TF	KAIJI	—	002 (354.1)	-7.6	3.0	—	—	—	—	RNAV1
007	TF	INTEL	—	286 (278.4)	-7.6	11.9	—	+9000	—	—	RNAV1
008	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
009	TF	BEKLA	—	279 (271.2)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	INTEL	—	285 (277.0)	-7.6	4.1	—	+9000	—	—	RNAV1
006	TF	RAGOS	—	295 (287.2)	-7.6	13.0	—	+13000	—	—	RNAV1
007	TF	BEKLA	—	279 (271.2)	-7.6	14.8	—	+FL170	—	—	RNAV1

CHANGE : PROC renamed. PROG course(RWY16L).

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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.6	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.6	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.6	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	288 (280.8)	-7.6	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.6	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.6	12.2	—	+13000	—	—	RNAV1
008	TF	BEKLA	—	313 (305.4)	-7.6	18.3	—	+FL170	—	—	RNAV1

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
EDOJO	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

CHANGE : PROC course(RWY16L).

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

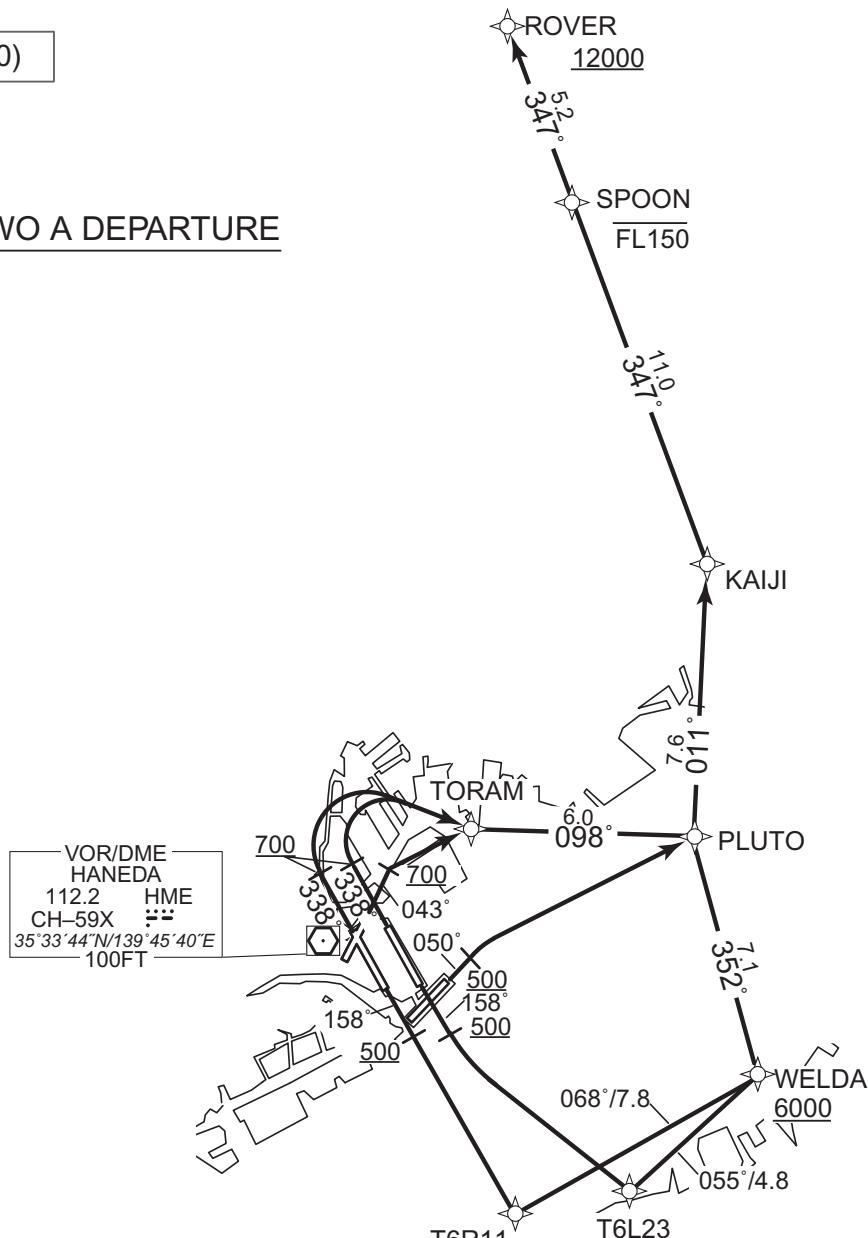
RNAV SID

ROVER TWO A 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 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(2020)

ROVER TWO A DEPARTURE

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO 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 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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6R11	–	–	-7.6	–	–	–	–	–	RNAV1
003	TF	WELDA	–	068 (060.6)	-7.6	7.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	T6L23	–	–	-7.6	–	L	–	–	–	RNAV1
003	TF	WELDA	–	055 (047.3)	-7.6	4.8	–	+6000	–	–	RNAV1
004	TF	PLUTO	–	352 (344.5)	-7.6	7.1	–	–	–	–	RNAV1
005	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
006	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
007	TF	ROVER	–	347 (339.1)	-7.6	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)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TORAM	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	PLUTO	–	098 (090.7)	-7.6	6.0	–	–	–	–	RNAV1
004	TF	KAIJI	–	011 (003.0)	-7.6	7.6	–	–	–	–	RNAV1
005	TF	SPOON	–	347 (339.2)	-7.6	11.0	–	-FL150	–	–	RNAV1
006	TF	ROVER	–	347 (339.1)	-7.6	5.2	–	+12000	–	–	RNAV1

CHANGE : PROC renamed. Magnetic Variation.

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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	TORAM	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	PLUTO	—	098 (090.7)	-7.6	6.0	—	—	—	—	RNAV1
004	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
005	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

CHANGE : Magnetic Variation. RWY04:NRW01(Course).

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 TWO 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

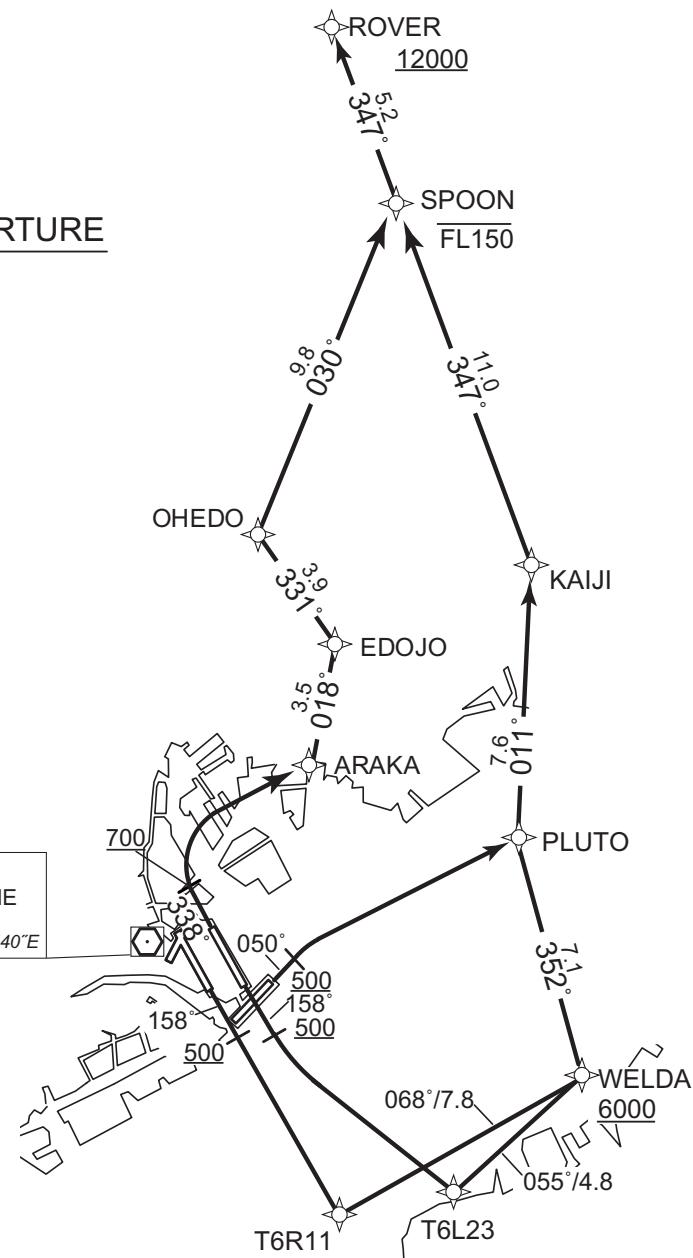
RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11
PQD 6.6NM to KAIJI - KAIJI
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23
PQD 6.6NM to KAIJI - KAIJI
RWY05 : HME DER - 2.2NM to PLUTO
PQD 6.6NM to KAIJI - KAIJI

VAR8°W(2020)

ROVER TWO B DEPARTURE

CHANGE : PROC renamed.

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO 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 EDOJO, 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.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L23	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	WELDA	—	055 (047.3)	-7.6	4.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	SPOON	—	030 (022.4)	-7.6	9.8	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

Waypoint Coordinates

Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	ROVER	355918.3N / 1395059.3E
EDOJO	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

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO 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

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

RWY05 : HME DER - 2.2NM to PLUTO
 PQD 6.6NM to KAIJI - KAIJI

VAR8°W(2020)

ROVER TWO C DEPARTURE

CHANGE : PROC renamed.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO 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 EDOJO, 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.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO 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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	WELDA	—	068 (060.6)	-7.6	7.8	—	+6000	—	—	RNAV1
004	TF	PLUTO	—	352 (344.5)	-7.6	7.1	—	—	—	—	RNAV1
005	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
006	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
007	TF	ROVER	—	347 (339.1)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L31	—	—	-7.6	—	L	—	—	—	RNAV1
003	TF	DAMBO	—	055 (047.5)	-7.6	8.7	—	—	—	—	RNAV1
004	TF	T6L32	—	317 (309.4)	-7.6	6.2	—	—	—	—	RNAV1
005	TF	LESMO	—	002 (354.1)	-7.6	3.0	—	+8000	—	—	RNAV1
006	TF	KAIJI	—	002 (354.1)	-7.6	3.0	—	—	—	—	RNAV1
007	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
008	TF	ROVER	—	347 (339.1)	-7.6	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)	-7.6	—	—	+700	—	—	RNAV1
002	DF	ARAKA	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	EDOJO	—	018 (010.8)	-7.6	3.5	—	—	—	—	RNAV1
004	TF	OHEDO	—	331 (323.7)	-7.6	3.9	—	—	—	—	RNAV1
005	TF	SPOON	—	030 (022.4)	-7.6	9.8	—	-FL150	—	—	RNAV1
006	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	PLUTO	—	—	-7.6	—	R	—	—	—	RNAV1
003	TF	KAIJI	—	011 (003.0)	-7.6	7.6	—	—	—	—	RNAV1
004	TF	SPOON	—	347 (339.2)	-7.6	11.0	—	-FL150	—	—	RNAV1
005	TF	ROVER	—	347 (339.1)	-7.6	5.2	—	+12000	—	—	RNAV1

Waypoint Coordinates

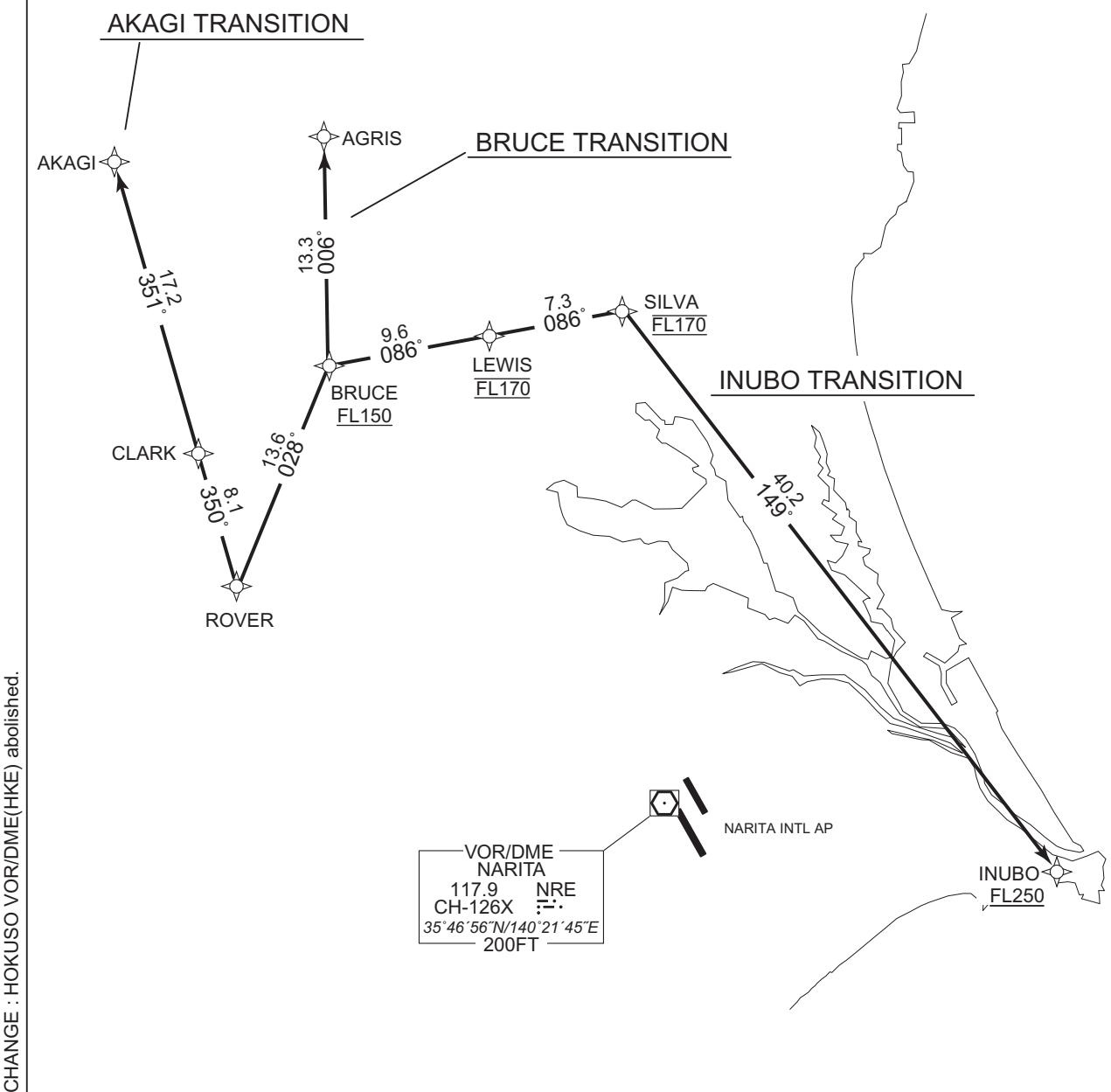
Waypoint Identifier	Coordinates	Waypoint Identifier	Coordinates
ARAKA	353848.8N / 1395041.9E	ROVER	355918.3N / 1395059.3E
DAMBO	353416.5N / 1400443.4E	SPOON	355428.3N / 1395316.0E
EDOJO	354214.0N / 1395129.9E	T6L31	352822.8N / 1395648.0E
KAIJI	354409.6N / 1395806.6E	T6L32	353810.9N / 1395852.2E
LESMO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

CHANGE : Magnetic Variation.

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

VAR8°W(2019)



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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLARK	—	350 (342.7)	-7.5	8.1	—	—	—	—	RNAV1
003	TF	AKAGI	—	351 (343.4)	-7.5	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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	BRUCE	—	028 (020.7)	-7.5	13.6	—	+FL150	—	—	RNAV1
003	TF	AGRIS	—	006 (358.7)	-7.5	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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	BRUCE	—	028 (020.7)	-7.5	13.6	—	+FL150	—	—	RNAV1
003	TF	LEWIS	—	086 (078.6)	-7.5	9.6	—	FL170	—	—	RNAV1
004	TF	SILVA	—	086 (078.8)	-7.5	7.3	—	FL170	—	—	RNAV1
005	TF	INUBO	—	149 (141.9)	-7.5	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 TWO DEPARTURE		RNAV1
Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off 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		
Inappropriate Navaids See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1		

VAR8°W(2020)

CHANGE : PROC renamed. VAR. HDG after DEP FM RWY04. Course FM TT502 to LOCUP.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS TWO 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.

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

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

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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6R11	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	207 (199.5)	-7.6	14.5	—	—	—	—	RNAV1
004	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
005	TF	RUTAS	—	116 (108.4)	-7.6	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)	-7.6	—	—	+500	—	—	RNAV1
002	DF	T6L21	—	—	-7.6	—	—	—	—	—	RNAV1
003	TF	VAMOS	—	208 (200.7)	-7.6	15.4	—	—	—	—	RNAV1
004	TF	UTIBO	—	165 (157.0)	-7.6	16.8	—	6000	—	—	RNAV1
005	TF	RUTAS	—	116 (108.4)	-7.6	40.6	—	—	—	—	RNAV1

CHANGE : PROC renamed. Magnetic Variation. HDG after DEP FM RWY04.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RNAV SID											
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)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	–	–	–	RNAV1
005	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
006	TF	RUTAS	–	116 (108.4)	-7.6	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)	-7.6	–	–	+700	–	–	RNAV1
002	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
003	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
004	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	–	–	–	RNAV1
005	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
006	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	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)	-7.6	–	–	+500	–	–	RNAV1
002	DF	TT501	Y	–	-7.6	–	–	–	–	–	RNAV1
003	DF	TT502	–	–	-7.6	–	R	–	–	–	RNAV1
004	TF	LOCUP	–	199 (190.9)	-7.6	5.2	–	+5000	–	–	RNAV1
005	TF	VAMOS	–	217 (209.5)	-7.6	17.3	–	–	–	–	RNAV1
006	TF	UTIBO	–	165 (157.0)	-7.6	16.8	–	6000	–	–	RNAV1
007	TF	RUTAS	–	116 (108.4)	-7.6	40.6	–	–	–	–	RNAV1

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

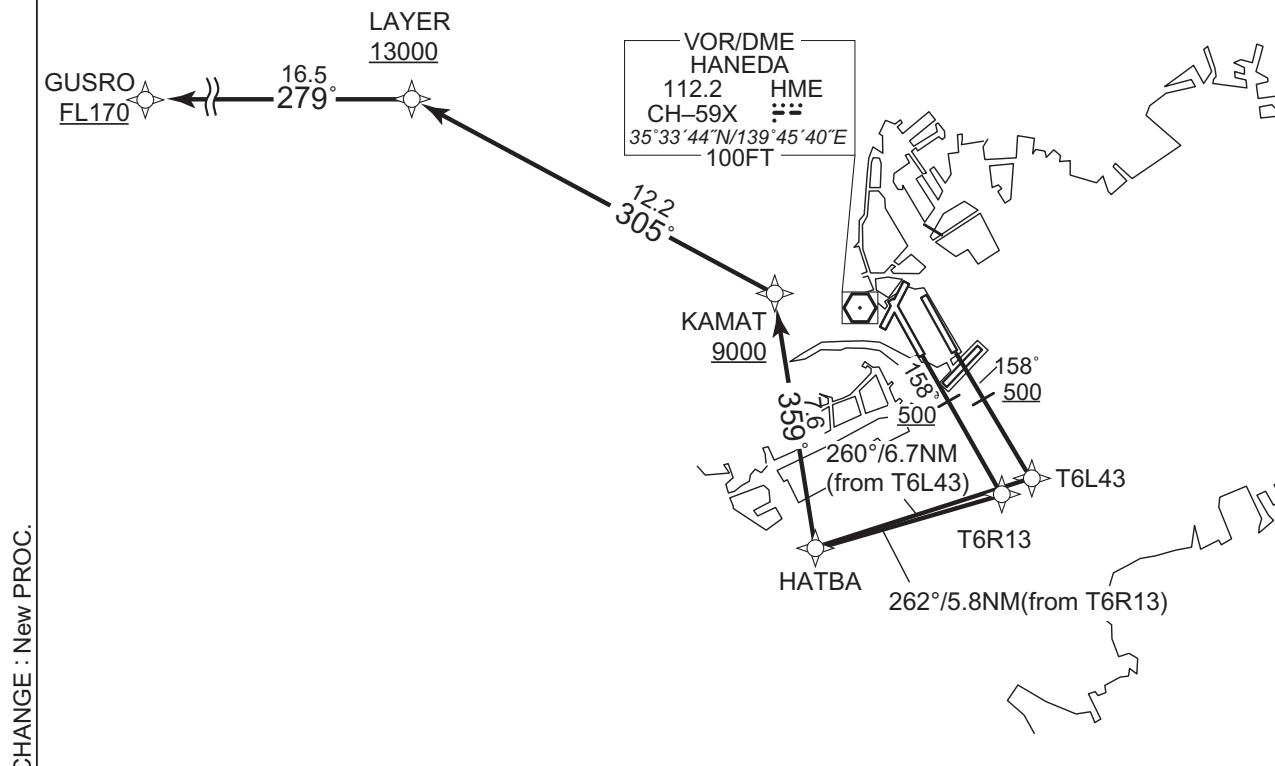
RJTT/TOKYO INTL

RNAV SID

GUSRO ONE 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 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)	-7.8	—	—	+500	—	—	RNAV1
002	DF	T6R13	—	—	-7.8	—	—	—	—	—	RNAV1
003	TF	HATBA	—	262 (253.8)	-7.8	5.8	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.8	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.8	12.2	—	+13000	—	—	RNAV1
006	TF	GUSRO	—	279 (271.2)	-7.8	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)	-7.8	—	—	+500	—	—	RNAV1
002	DF	T6L43	—	—	-7.8	—	—	—	—	—	RNAV1
003	TF	HATBA	—	260 (251.9)	-7.8	6.7	—	—	—	—	RNAV1
004	TF	KAMAT	—	359 (351.1)	-7.8	7.6	—	+9000	—	—	RNAV1
005	TF	LAYER	—	305 (297.1)	-7.8	12.2	—	+13000	—	—	RNAV1
006	TF	GUSRO	—	279 (271.2)	-7.8	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)	-7.8	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.8	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.8	5.2	—	+5000	—	—	RNAV1
004	TF	TT503	—	289 (280.8)	-7.8	6.2	—	—	—	—	RNAV1
005	TF	KAMAT	—	322 (314.2)	-7.8	7.8	—	+9000	—	—	RNAV1
006	TF	LAYER	—	305 (297.1)	-7.8	12.2	—	+13000	—	—	RNAV1
007	TF	GUSRO	—	279 (271.2)	-7.8	16.5	—	+FL170	—	—	RNAV1

CHANGE : New PROC.

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)	-7.8	—	—	+700	—	—	RNAV1
002	DF	TT502	—	—	-7.8	—	R	—	—	—	RNAV1
003	TF	LOCUP	—	199 (190.9)	-7.8	5.2	—	+5000	—	—	RNAV1
004	TF	TT503	—	289 (280.8)	-7.8	6.2	—	—	—	—	RNAV1
005	TF	KAMAT	—	322 (314.2)	-7.8	7.8	—	+9000	—	—	RNAV1
006	TF	LAYER	—	305 (297.1)	-7.8	12.2	—	+13000	—	—	RNAV1
007	TF	GUSRO	—	279 (271.2)	-7.8	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)	-7.8	—	—	+500	—	—	RNAV1
002	DF	TT501	Y	—	-7.8	—	—	—	—	—	RNAV1
003	DF	TT502	—	—	-7.8	—	R	—	—	—	RNAV1
004	TF	LOCUP	—	199 (190.9)	-7.8	5.2	—	+5000	—	—	RNAV1
005	TF	TT503	—	289 (280.8)	-7.8	6.2	—	—	—	—	RNAV1
006	TF	KAMAT	—	322 (314.2)	-7.8	7.8	—	+9000	—	—	RNAV1
007	TF	LAYER	—	305 (297.1)	-7.8	12.2	—	+13000	—	—	RNAV1
008	TF	GUSRO	—	279 (271.2)	-7.8	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)	-7.8	—	—	+600	—	—	RNAV1
002	DF	HOBBS	—	—	-7.8	—	L	—	—	—	RNAV1
003	TF	BASSA	—	188 (179.9)	-7.8	5.8	—	—	—	—	RNAV1
004	TF	UMUKI	—	172 (163.9)	-7.8	9.2	—	—	—	—	RNAV1
005	TF	PIPER	—	235 (227.4)	-7.8	3.5	—	+9000	—	—	RNAV1
006	TF	SATOL	—	235 (227.4)	-7.8	5.5	—	—	—	—	RNAV1
007	TF	CURVA	—	300 (292.2)	-7.8	8.2	—	+FL150	—	—	RNAV1
008	TF	GUSRO	—	336 (328.3)	-7.8	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

CHANGE : New PROC.

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.

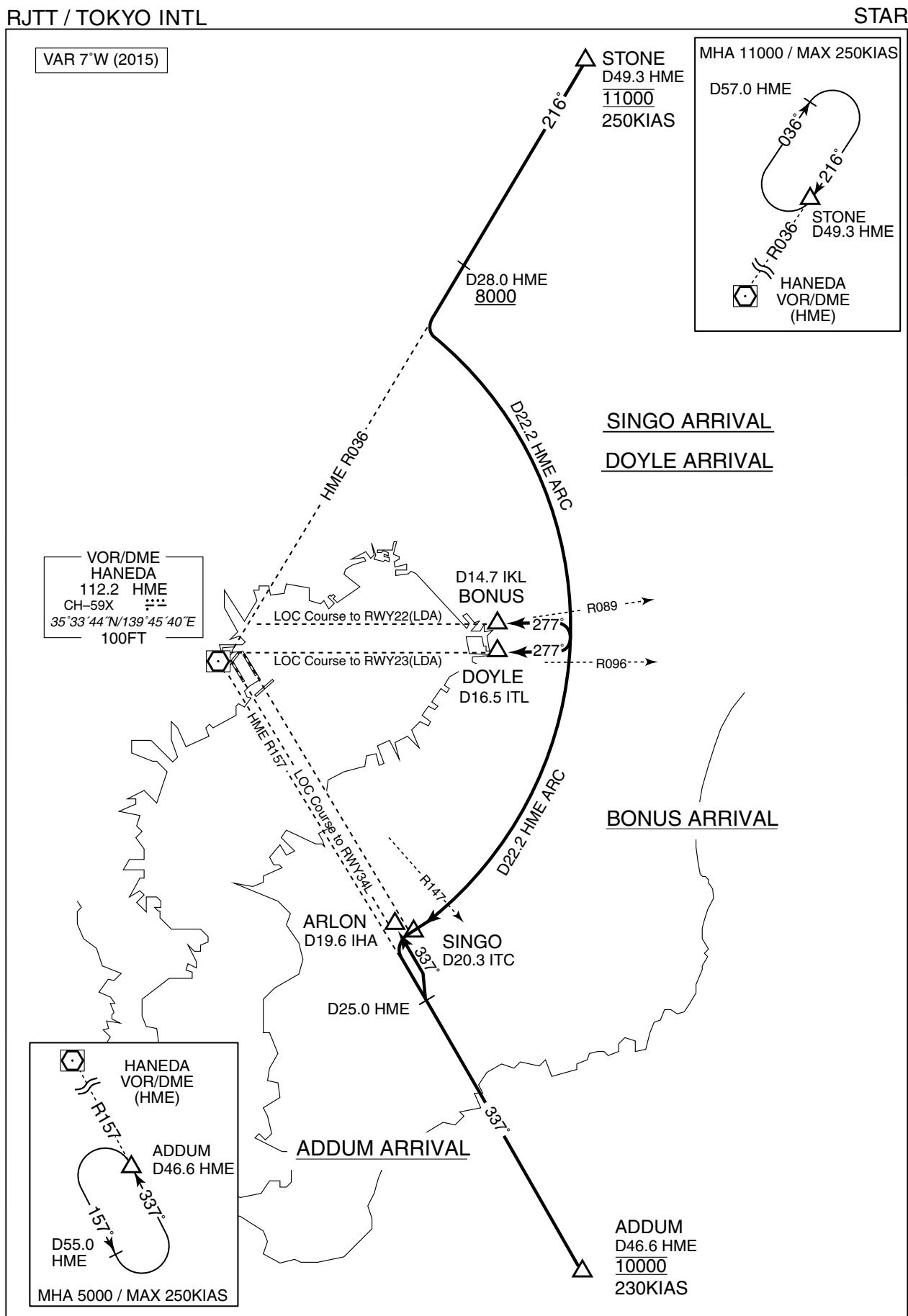
Cross ADDUM at 10000FT.

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



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL / OSHIMA 1K ARRIVAL
OSHIMA 2C ARRIVAL

RNAV 1

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

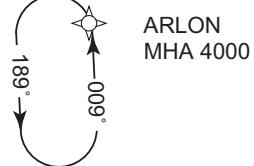
2) RADAR service required.

VAR 8° W(2019)

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

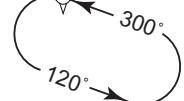


MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



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

WEDGE MHA 4000



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

VORTAC OSHIMA
113.1 CH-78X
34°42'44"N/139°24'50"E
2100FT

XAC

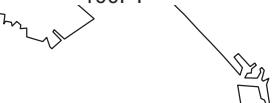
ANZAC 13000 230KIAS

OSHIMA (XAC)

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

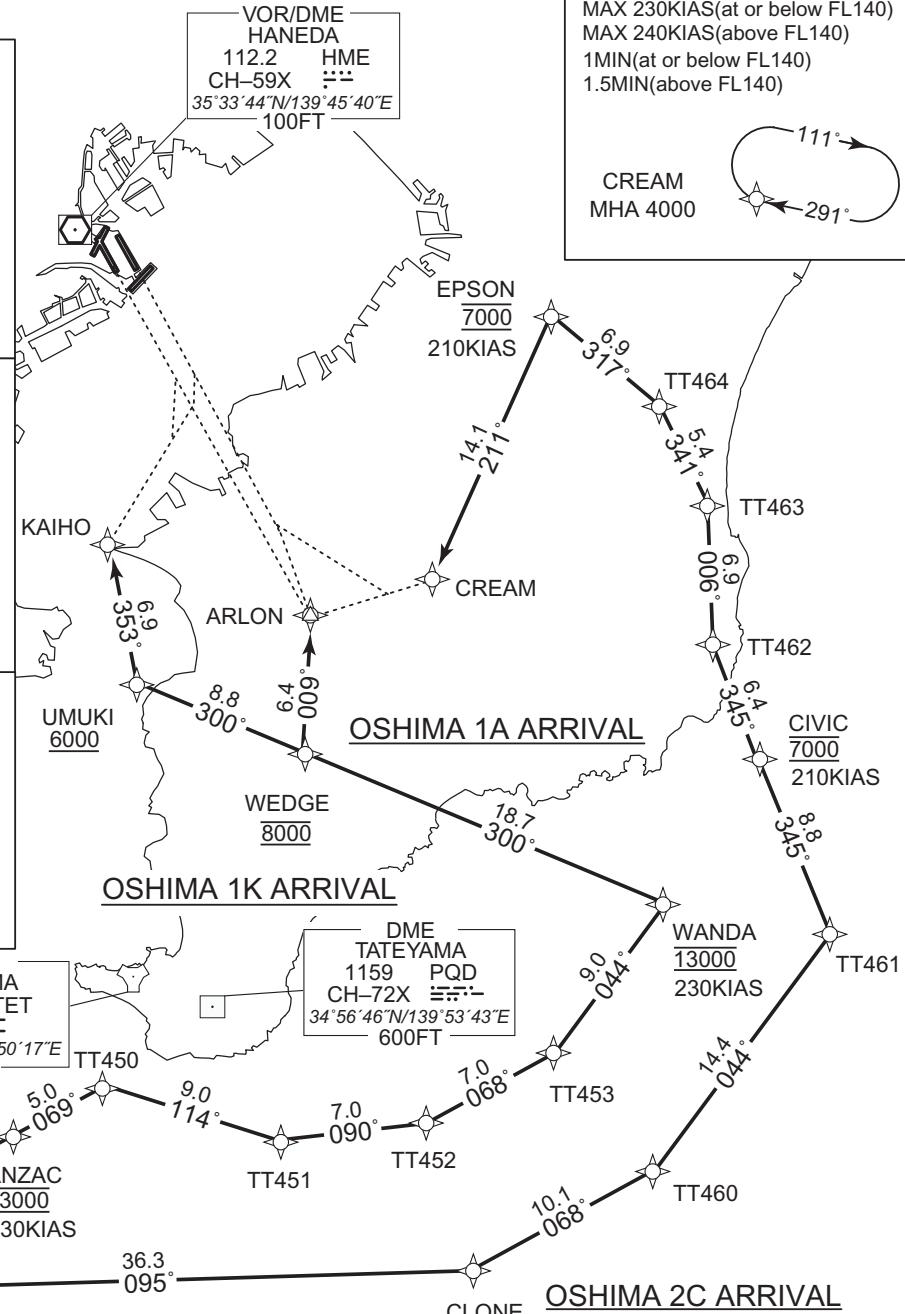
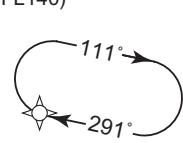


VOR/DME HANEDA
112.2 CH-59X
35°33'44"N/139°45'40"E
100FT



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

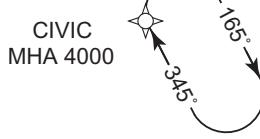
CREAM MHA 4000



CHANGE : ACORN abolished. ANZAC established.

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

CIVIC MHA 4000



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

ANZAC MHA 5000



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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	ANZAC	—	068 (060.8)	-7.5	15.9	—	13000	230	—	RNAV1
003	TF	TT450	—	069 (061.0)	-7.5	5.0	—	—	—	—	RNAV1
004	TF	TT451	—	114 (106.9)	-7.5	9.0	—	—	—	—	RNAV1
005	TF	TT452	—	090 (082.2)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT453	—	068 (060.7)	-7.5	7.0	—	—	—	—	RNAV1
007	TF	WANDA	—	044 (036.0)	-7.5	9.0	—	13000	230	—	RNAV1
008	TF	WEDGE	—	300 (292.4)	-7.5	18.7	—	8000	—	—	RNAV1
009	TF	ARLON	—	009 (001.6)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	ANZAC	—	068 (060.8)	-7.5	15.9	—	13000	230	—	RNAV1
003	TF	TT450	—	069 (061.0)	-7.5	5.0	—	—	—	—	RNAV1
004	TF	TT451	—	114 (106.9)	-7.5	9.0	—	—	—	—	RNAV1
005	TF	TT452	—	090 (082.2)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT453	—	068 (060.7)	-7.5	7.0	—	—	—	—	RNAV1
007	TF	WANDA	—	044 (036.0)	-7.5	9.0	—	13000	230	—	RNAV1
008	TF	WEDGE	—	300 (292.4)	-7.5	18.7	—	8000	—	—	RNAV1
009	TF	UMUKI	—	300 (292.2)	-7.5	8.8	—	+6000	—	—	RNAV1
010	TF	KAIHO	—	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACCORN abolished. ANZAC established.

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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLONE	—	095 (087.8)	-7.5	36.3	—	—	—	—	RNAV1
003	TF	TT460	—	068 (060.7)	-7.5	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.5	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	345 (337.7)	-7.5	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	345 (337.7)	-7.5	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.5	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.5	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.5	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

AKSEL 1A ARRIVAL / AKSEL 1K ARRIVAL
AKSEL 2C ARRIVAL

RNAV STAR RWY34R/34L

RNAV 1

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

VAR 8° W(2019)

VOR/DME
HANEDA
112.2 HME
CH-59X \cdots
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)

KAIHO
MHA 4000
 173°
 353°

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

ARLON
MHA 4000
 600°
 68°

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

WEDGE
MHA 4000
 300°
 120°

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

AKSEL
MHA 5000
 039°
 219°

EPSON
7000
210KIAS

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

CREAM
MHA 4000

AKSEL 2C ARRIVAL

ARLON
UMUKI
6000
 353°
 300°
 8.8°
 6.4°
 009°

AKSEL1A ARRIVAL

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

TT464
TT463
TT462
TT461

CIVIC
7000
210KIAS

WALLY
12000
230KIAS

AKSEL1K ARRIVAL

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

TT456
TT455
TT454

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

CIVIC
MHA 4000

AKSEL
12000 (for AKSEL 1A ARRIVAL, AKSEL 1K ARRIVAL)

230KIAS (for AKSEL 1A ARRIVAL, AKSEL 1K ARRIVAL)

TT460
CLONE

TT455
TT454
7.6
 090°
 039°
 9.5°

TT455
7.6
 068°
 14.8°
 085°

TT456
 1.6°
 068°
 10.1°
 068°

TT460
 14.4°
 044°
 9.7°
 044°

CHANGE : WALLY renamed

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	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	TT454	-	039 (031.2)	-7.5	9.5	-	-	-	-	RNAV1
003	TF	TT455	-	090 (082.2)	-7.5	7.6	-	-	-	-	RNAV1
004	TF	TT456	-	068 (060.7)	-7.5	7.6	-	-	-	-	RNAV1
005	TF	WALLY	-	044 (036.0)	-7.5	9.7	-	12000	230	-	RNAV1
006	TF	WEDGE	-	300 (292.4)	-7.5	20.2	-	8000	-	-	RNAV1
007	TF	ARLON	-	009 (001.6)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : WALLY renamed

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	—	—	-7.5	—	—	12000	230	—	RNAV1
002	TF	TT454	—	039 (031.2)	-7.5	9.5	—	—	—	—	RNAV1
003	TF	TT455	—	090 (082.2)	-7.5	7.6	—	—	—	—	RNAV1
004	TF	TT456	—	068 (060.7)	-7.5	7.6	—	—	—	—	RNAV1
005	TF	WALLY	—	044 (036.0)	-7.5	9.7	—	12000	230	—	RNAV1
006	TF	WEDGE	—	300 (292.4)	-7.5	20.2	—	8000	—	—	RNAV1
007	TF	UMUKI	—	300 (292.2)	-7.5	8.8	—	+6000	—	—	RNAV1
008	TF	KAIHO	—	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : WALLY renamed

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CLONE	-	085 (077.0)	-7.5	14.8	-	-	-	-	RNAV1
003	TF	TT460	-	068 (060.7)	-7.5	10.1	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	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 : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

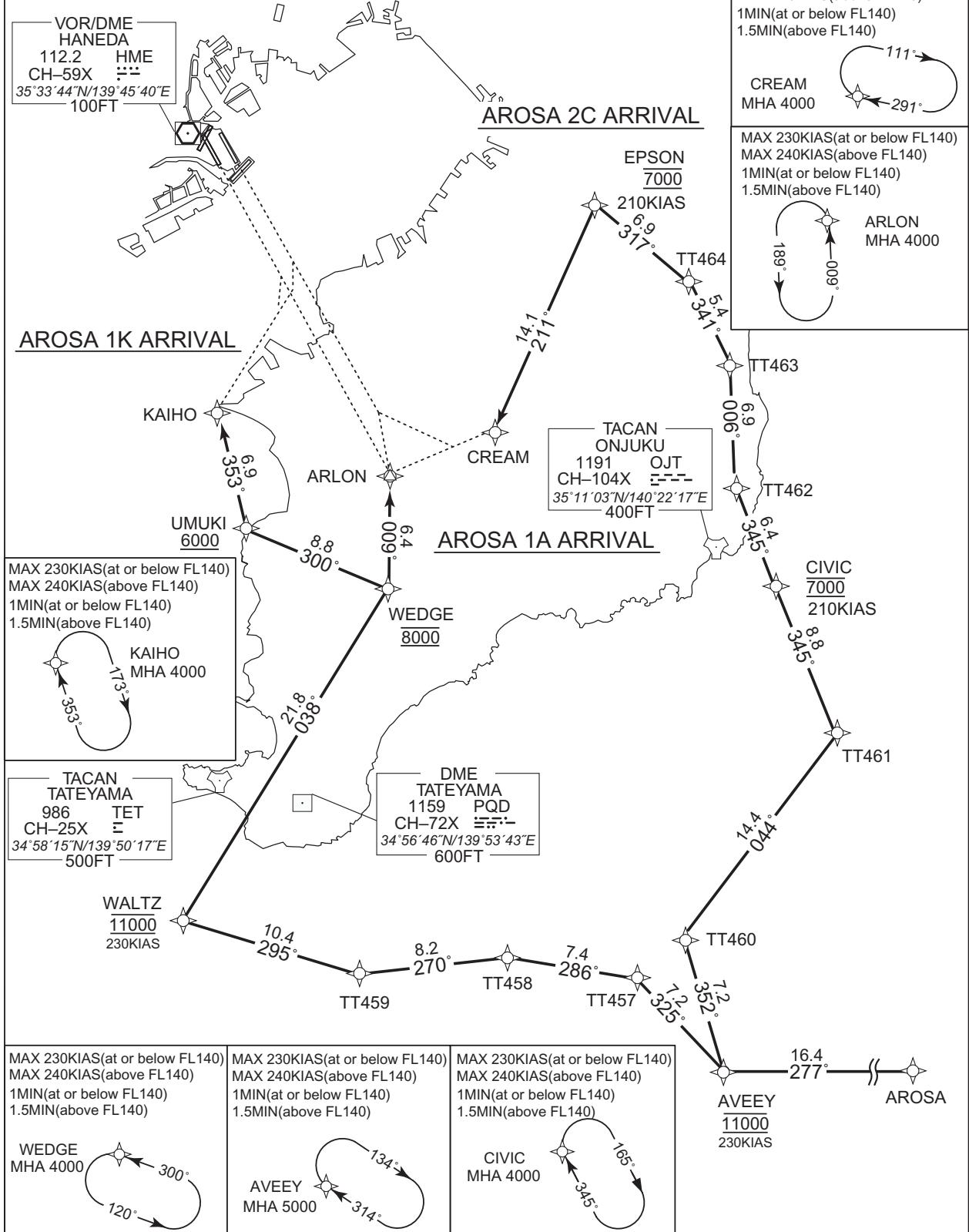
AROSA 1A ARRIVAL / AROSA 1K ARRIVAL
AROSA 2C ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT457	-	325 (317.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT458	-	286 (278.5)	-7.5	7.4	-	-	-	-	RNAV1
005	TF	TT459	-	270 (262.3)	-7.5	8.2	-	-	-	-	RNAV1
006	TF	WALTZ	-	295 (287.0)	-7.5	10.4	-	11000	230	-	RNAV1
007	TF	WEDGE	-	038 (030.6)	-7.5	21.8	-	8000	-	-	RNAV1
008	TF	ARLON	-	009 (001.6)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : AVEEY renamed

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT457	-	325 (317.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT458	-	286 (278.5)	-7.5	7.4	-	-	-	-	RNAV1
005	TF	TT459	-	270 (262.3)	-7.5	8.2	-	-	-	-	RNAV1
006	TF	WALTZ	-	295 (287.0)	-7.5	10.4	-	11000	230	-	RNAV1
007	TF	WEDGE	-	038 (030.6)	-7.5	21.8	-	8000	-	-	RNAV1
008	TF	UMUKI	-	300 (292.2)	-7.5	8.8	-	+6000	-	-	RNAV1
009	TF	KAIHO	-	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : AVEEY renamed

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT460	-	352 (344.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	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 : AVEEY renamed

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

NOT TO SCALE

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

NOT TO SCALE

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

NOT TO SCALE

GODIN

11.8°

CHIPS
13000

11.7°

COLOR
11000

14.3°

188°

COPSE

9.4°

185°

COACH
8000

210KIAS

8.0°

187°

TT465

6.4°

TT466

1.5°

TT467

1.0°

TT468

6.7°

EDDIE
8000

210KIAS

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TT469

4.9°

TT470

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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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	ARLON	-	308 (300.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : ANDEN established. TT469 abolished.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	UMUKI	-	278 (270.2)	-7.5	13.7	-	+6000	-	-	RNAV1
013	TF	KAIHO	-	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : ANDEN established. TT469 abolished.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	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 : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL / POLIX 2K ARRIVAL
POLIX 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)

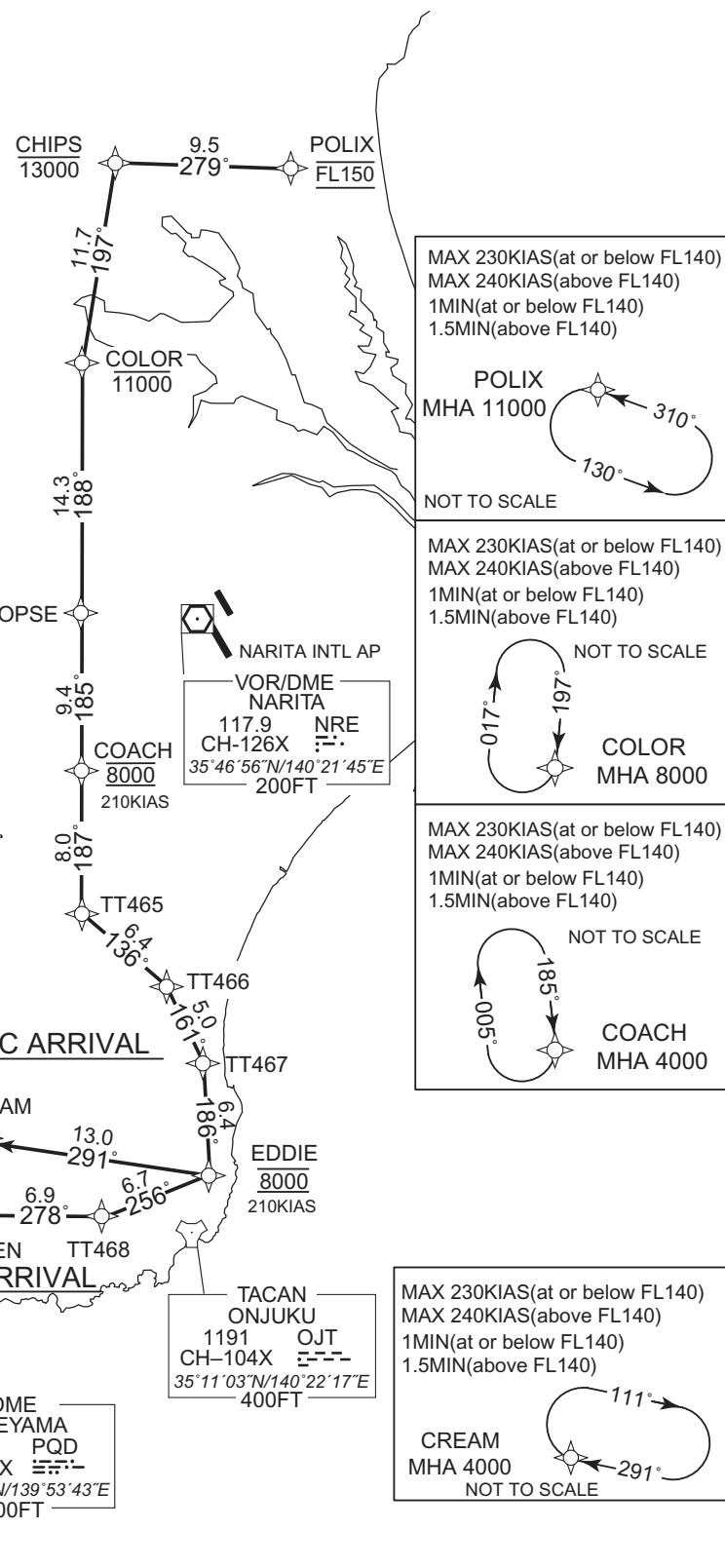
KAIHO
MHA 4000

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



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	—	—	-7.5	—	—	FL150	—	—	RNAV1
002	TF	CHIPS	—	279 (271.1)	-7.5	9.5	—	-13000	—	—	RNAV1
003	TF	COLOR	—	197 (189.1)	-7.5	11.7	—	-11000	—	—	RNAV1
004	TF	COPSE	—	188 (180.8)	-7.5	14.3	—	—	—	—	RNAV1
005	TF	COACH	—	185 (177.8)	-7.5	9.4	—	8000	210	—	RNAV1
006	TF	TT465	—	187 (179.6)	-7.5	8.0	—	—	—	—	RNAV1
007	TF	TT466	—	136 (128.9)	-7.5	6.4	—	—	—	—	RNAV1
008	TF	TT467	—	161 (153.5)	-7.5	5.0	—	—	—	—	RNAV1
009	TF	EDDIE	—	186 (178.0)	-7.5	6.4	—	8000	210	—	RNAV1
010	TF	TT468	—	256 (248.1)	-7.5	6.7	—	—	—	—	RNAV1
011	TF	ANDEN	—	278 (270.2)	-7.5	6.9	—	—	—	—	RNAV1
012	TF	ARLON	—	308 (300.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : ANDEN established. TT469 abolished.

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	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.5	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	TT468	-	256 (248.1)	-7.5	6.7	-	-	-	-	RNAV1
011	TF	ANDEN	-	278 (270.2)	-7.5	6.9	-	-	-	-	RNAV1
012	TF	UMUKI	-	278 (270.2)	-7.5	13.7	-	+6000	-	-	RNAV1
013	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	-	-	-	RNAV1

CHANGE : ANDEN established. TT469 abolished.

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)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.5	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	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 : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

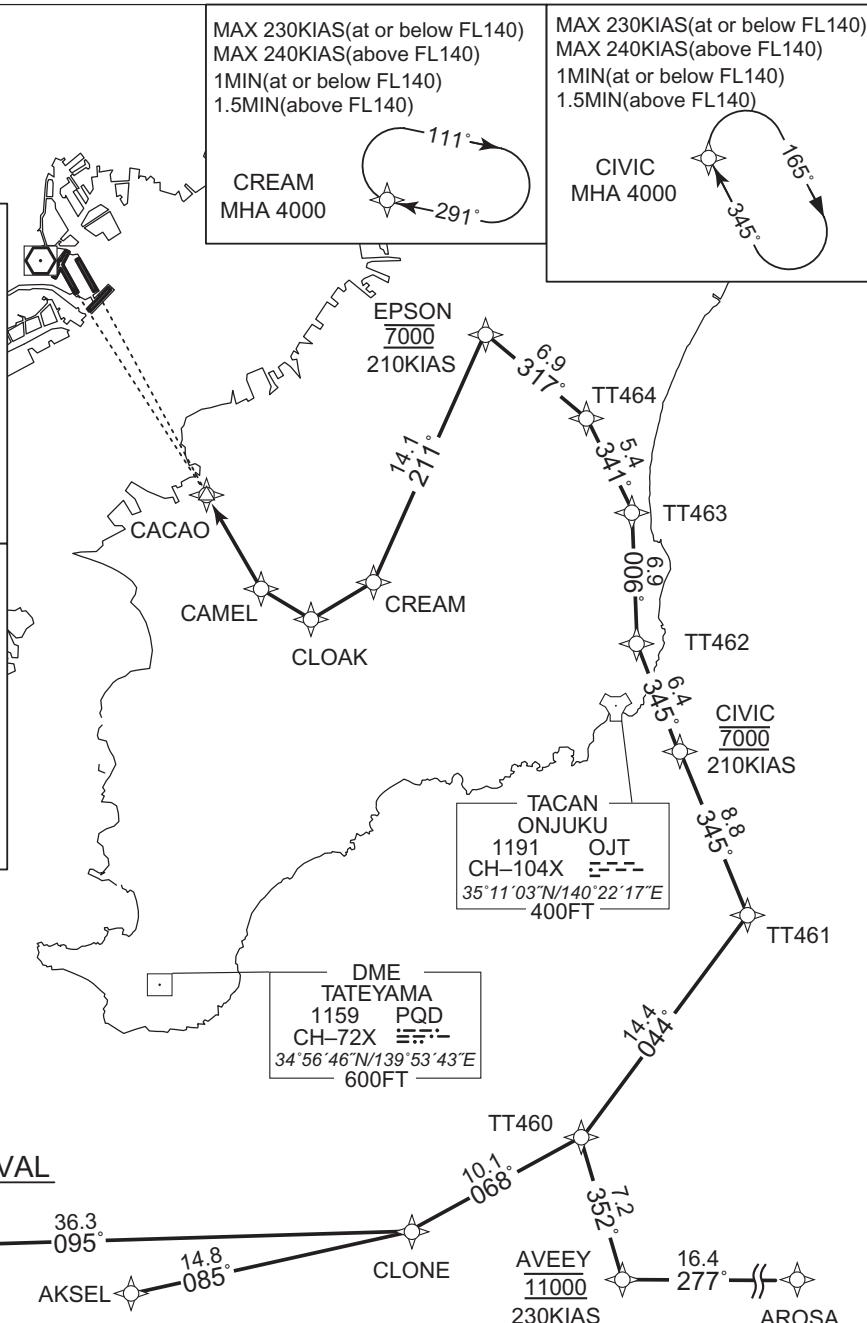
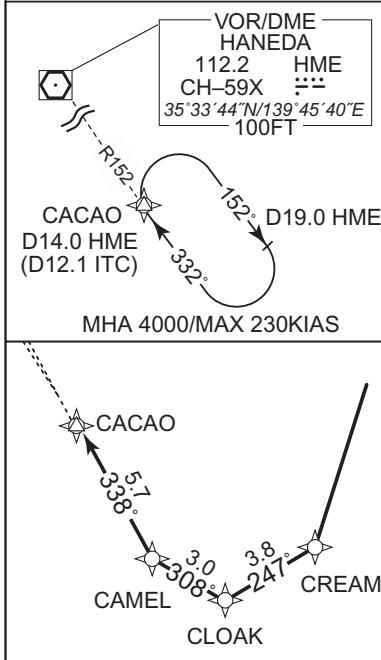
RNAV STAR RWY34R/34L

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(2019)



CHANGE : AVEEY renamed

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

OSHIMA(XAC)
MHA 5000

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

AKSEL
MHA 5000

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

AVEEY
MHA 5000

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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLONE	—	095 (087.8)	-7.5	36.3	—	—	—	—	RNAV1
003	TF	TT460	—	068 (060.7)	-7.5	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.5	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	345 (337.7)	-7.5	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	345 (337.7)	-7.5	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.5	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.5	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.5	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.5	14.1	—	—	—	—	RNAV1
011	TF	CLOAK	—	247 (240.0)	-7.5	3.8	—	—	—	—	RNAV1
012	TF	CAMEL	—	308 (300.1)	-7.5	3.0	—	—	—	—	RNAV1
013	TF	CACAO	—	338 (330.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	CLONE	—	085 (077.0)	-7.5	14.8	—	—	—	—	RNAV1
003	TF	TT460	—	068 (060.7)	-7.5	10.1	—	—	—	—	RNAV1
004	TF	TT461	—	044 (036.1)	-7.5	14.4	—	—	—	—	RNAV1
005	TF	CIVIC	—	345 (337.7)	-7.5	8.8	—	7000	210	—	RNAV1
006	TF	TT462	—	345 (337.7)	-7.5	6.4	—	—	—	—	RNAV1
007	TF	TT463	—	006 (358.0)	-7.5	6.9	—	—	—	—	RNAV1
008	TF	TT464	—	341 (333.5)	-7.5	5.4	—	—	—	—	RNAV1
009	TF	EPSON	—	317 (309.0)	-7.5	6.9	—	7000	210	—	RNAV1
010	TF	CREAM	—	211 (203.6)	-7.5	14.1	—	—	—	—	RNAV1
011	TF	CLOAK	—	247 (240.0)	-7.5	3.8	—	—	—	—	RNAV1
012	TF	CAMEL	—	308 (300.1)	-7.5	3.0	—	—	—	—	RNAV1
013	TF	CACAO	—	338 (330.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	TT460	-	352 (344.5)	-7.5	7.2	-	-	-	-	RNAV1
004	TF	TT461	-	044 (036.1)	-7.5	14.4	-	-	-	-	RNAV1
005	TF	CIVIC	-	345 (337.7)	-7.5	8.8	-	7000	210	-	RNAV1
006	TF	TT462	-	345 (337.7)	-7.5	6.4	-	-	-	-	RNAV1
007	TF	TT463	-	006 (358.0)	-7.5	6.9	-	-	-	-	RNAV1
008	TF	TT464	-	341 (333.5)	-7.5	5.4	-	-	-	-	RNAV1
009	TF	EPSON	-	317 (309.0)	-7.5	6.9	-	7000	210	-	RNAV1
010	TF	CREAM	-	211 (203.6)	-7.5	14.1	-	-	-	-	RNAV1
011	TF	CLOAK	-	247 (240.0)	-7.5	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.5	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added

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

RJTT / TOKYO INTL

GODIN 1H ARRIVAL
POLIX 1H ARRIVAL

RNAV STAR RWY34R/34L

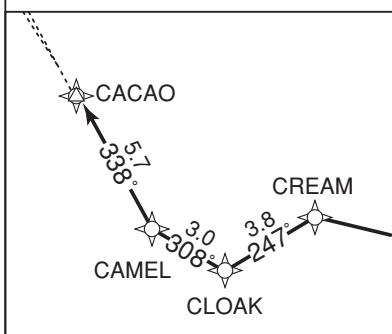
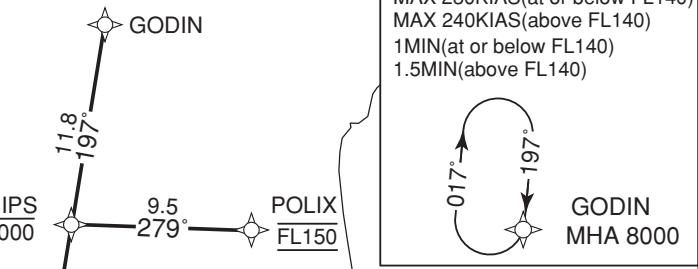
RNAV 1

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

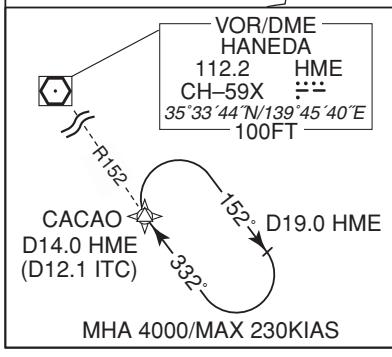
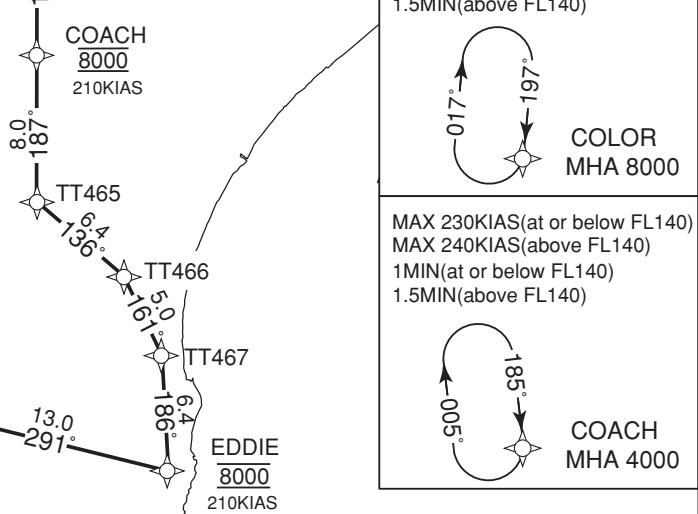
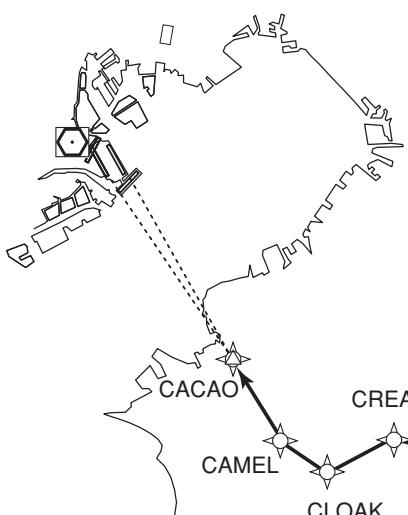
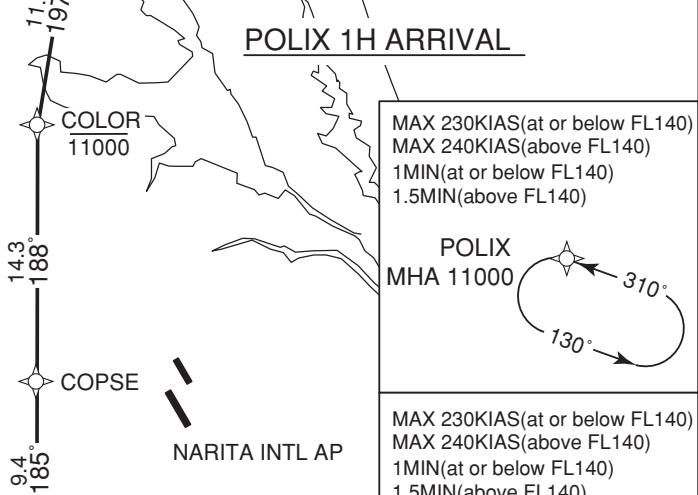
2) RADAR service required.

VAR 8° W(2019)

GODIN 1H ARRIVAL



POLIX 1H ARRIVAL



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

CREAM
MHA 4000

111° → 291°

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	CHIPS	-	197 (189.1)	-7.5	11.8	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	13.0	-	-	-	-	RNAV1
011	TF	CLOAK	-	247 (240.0)	-7.5	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.5	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

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	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	CHIPS	-	279 (271.1)	-7.5	9.5	-	-13000	-	-	RNAV1
003	TF	COLOR	-	197 (189.1)	-7.5	11.7	-	-11000	-	-	RNAV1
004	TF	COPSE	-	188 (180.8)	-7.5	14.3	-	-	-	-	RNAV1
005	TF	COACH	-	185 (177.8)	-7.5	9.4	-	8000	210	-	RNAV1
006	TF	TT465	-	187 (179.6)	-7.5	8.0	-	-	-	-	RNAV1
007	TF	TT466	-	136 (128.9)	-7.5	6.4	-	-	-	-	RNAV1
008	TF	TT467	-	161 (153.5)	-7.5	5.0	-	-	-	-	RNAV1
009	TF	EDDIE	-	186 (178.0)	-7.5	6.4	-	8000	210	-	RNAV1
010	TF	CREAM	-	291 (283.1)	-7.5	13.0	-	-	-	-	RNAV1
011	TF	CLOAK	-	247 (240.0)	-7.5	3.8	-	-	-	-	RNAV1
012	TF	CAMEL	-	308 (300.1)	-7.5	3.0	-	-	-	-	RNAV1
013	TF	CACAO	-	338 (330.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Note added.

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

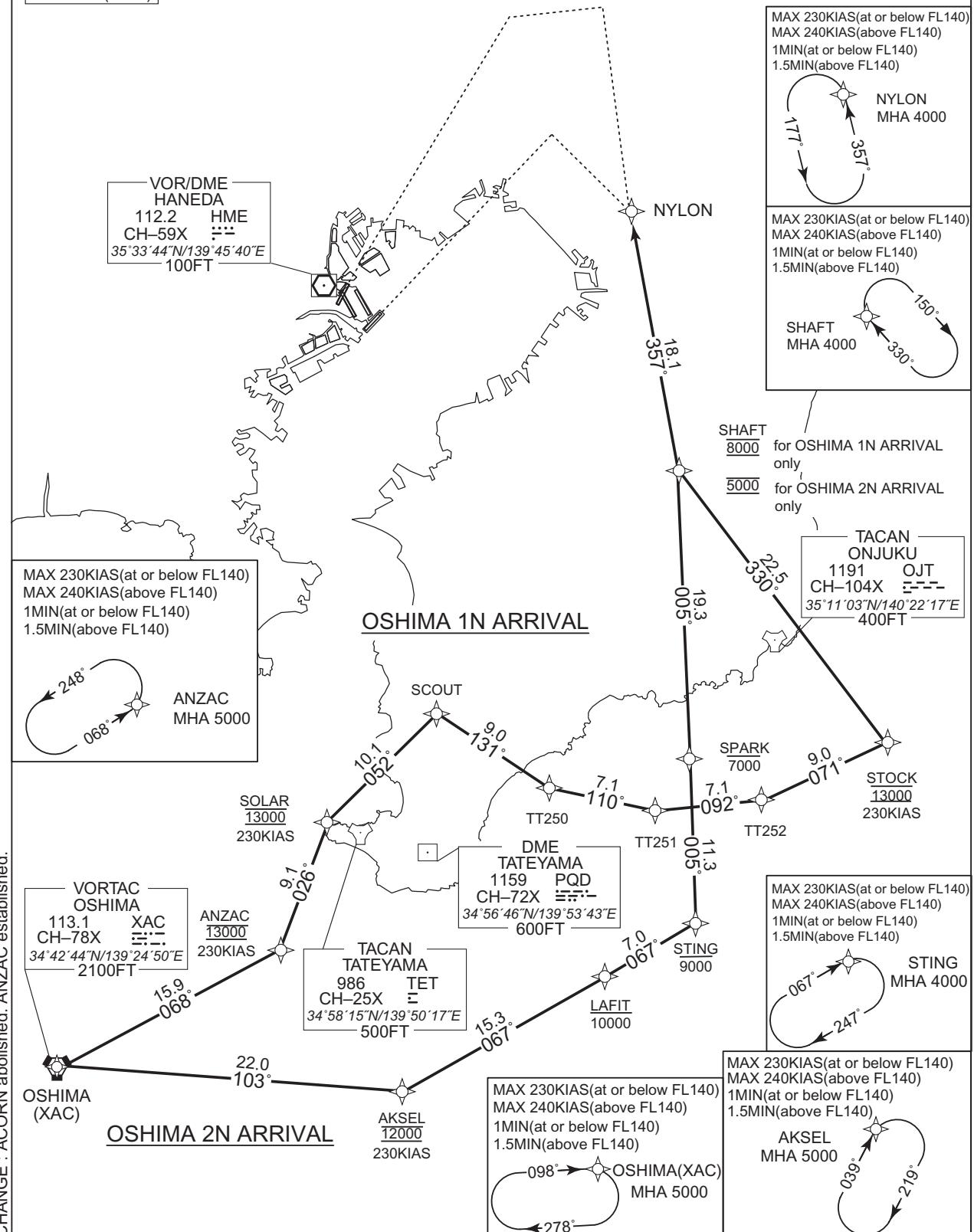
OSHIMA 1N ARRIVAL
OSHIMA 2N ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	ANZAC	—	068 (060.8)	-7.5	15.9	—	13000	230	—	RNAV1
003	TF	SOLAR	—	026 (018.4)	-7.5	9.1	—	13000	230	—	RNAV1
004	TF	SCOUT	—	052 (044.3)	-7.5	10.1	—	—	—	—	RNAV1
005	TF	TT250	—	131 (123.1)	-7.5	9.0	—	—	—	—	RNAV1
006	TF	TT251	—	110 (102.5)	-7.5	7.1	—	—	—	—	RNAV1
007	TF	TT252	—	092 (084.3)	-7.5	7.1	—	—	—	—	RNAV1
008	TF	STOCK	—	071 (063.6)	-7.5	9.0	—	13000	230	—	RNAV1
009	TF	SHAFT	—	330 (322.4)	-7.5	22.5	—	8000	—	—	RNAV1
010	TF	NYLON	—	357 (350.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACCORN abolished. ANZAC established.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AKSEL	-	103 (095.3)	-7.5	22.0	-	12000	230	-	RNAV1
003	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
004	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
005	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
006	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
007	TF	NYLON	-	357 (350.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACCORN abolished. ANZAC established.

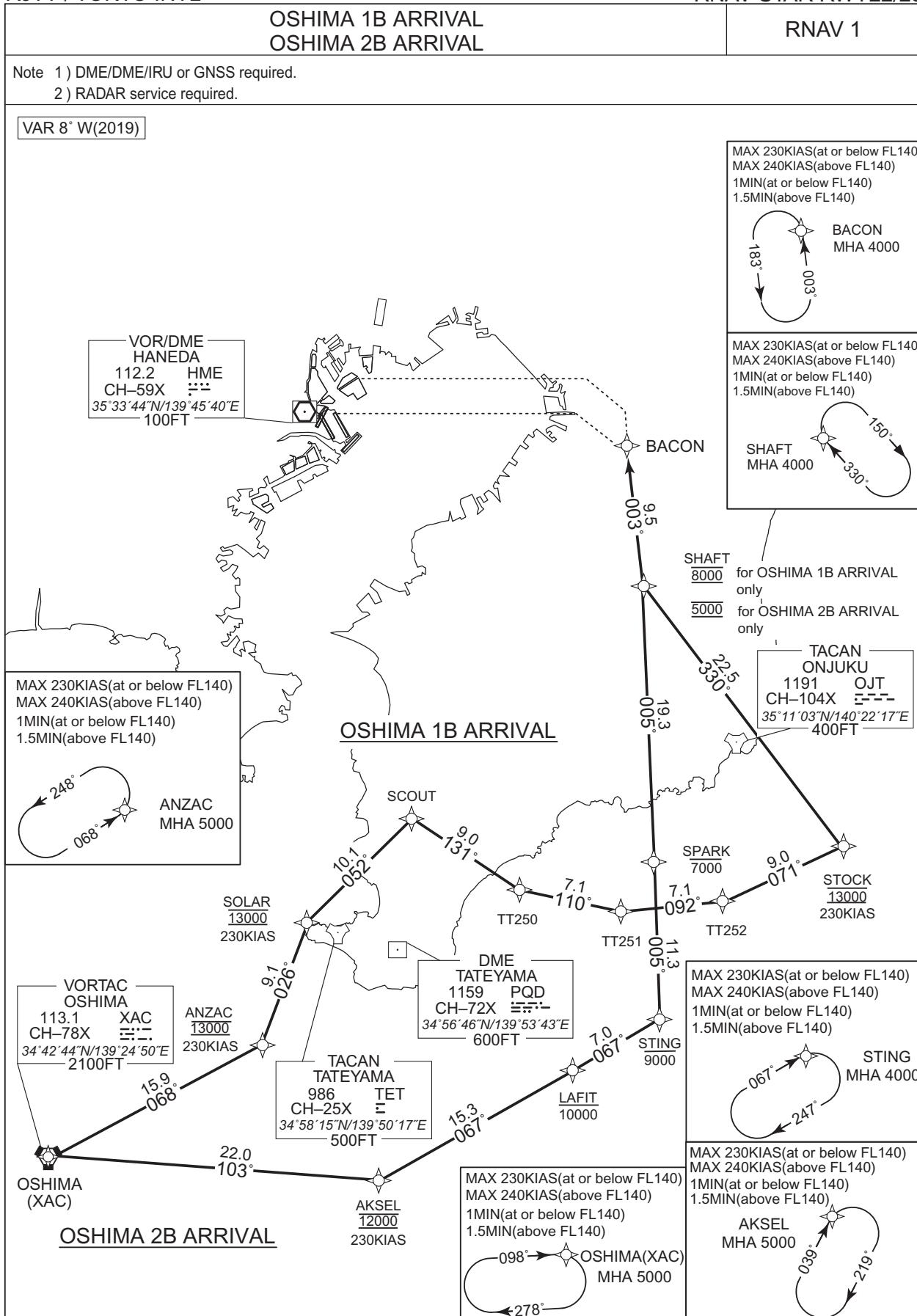
Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23



CHANGE : ACCORN abolished ANZAC established

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	068 (060.8)	-7.5	15.9	-	13000	230	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.5	9.1	-	13000	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.5	10.1	-	-	-	-	RNAV1
005	TF	TT250	-	131 (123.1)	-7.5	9.0	-	-	-	-	RNAV1
006	TF	TT251	-	110 (102.5)	-7.5	7.1	-	-	-	-	RNAV1
007	TF	TT252	-	092 (084.3)	-7.5	7.1	-	-	-	-	RNAV1
008	TF	STOCK	-	071 (063.6)	-7.5	9.0	-	13000	230	-	RNAV1
009	TF	SHAFT	-	330 (322.4)	-7.5	22.5	-	8000	-	-	RNAV1
010	TF	BACON	-	003 (355.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AKSEL	-	103 (095.3)	-7.5	22.0	-	12000	230	-	RNAV1
003	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
004	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
005	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
006	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
007	TF	BACON	-	003 (355.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL
AKSEL 2N ARRIVAL

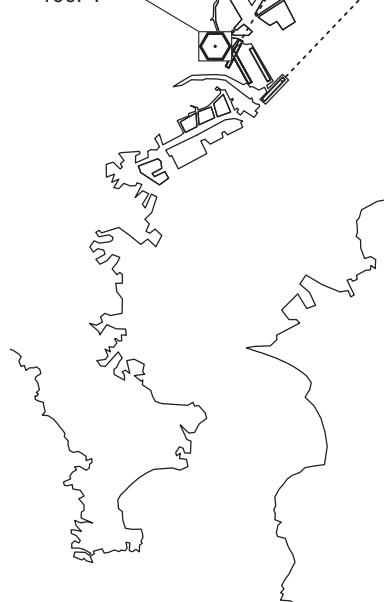
RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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



NYLON

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

NYLON
MHA 4000

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

SHAFT
MHA 4000

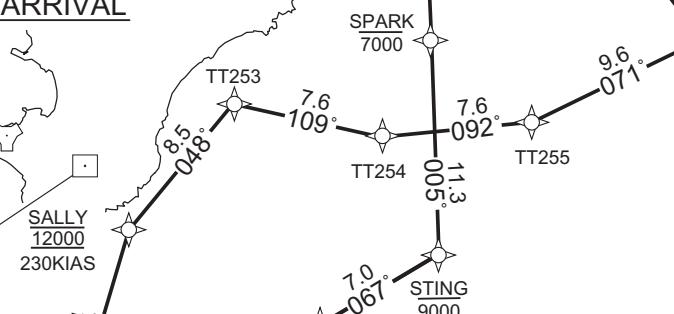
SHAFT
8000
5000
for AKSEL 1N ARRIVAL only
for AKSEL 2N ARRIVAL only

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

AKSEL 1N 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



STOWE
12000
230KIAS

CHANGE : STOWE renamed

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

AKSEL
MHA 5000

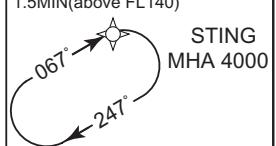


AKSEL
12000
230KIAS

AKSEL 2N ARRIVAL

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

STING
MHA 4000



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	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	SALLY	-	023 (015.0)	-7.5	13.4	-	12000	230	-	RNAV1
003	TF	TT253	-	048 (040.5)	-7.5	8.5	-	-	-	-	RNAV1
004	TF	TT254	-	109 (102.0)	-7.5	7.6	-	-	-	-	RNAV1
005	TF	TT255	-	092 (084.4)	-7.5	7.6	-	-	-	-	RNAV1
006	TF	STOWE	-	071 (063.6)	-7.5	9.6	-	12000	230	-	RNAV1
007	TF	SHAFT	-	330 (322.4)	-7.5	24.0	-	8000	-	-	RNAV1
008	TF	NYLON	-	357 (350.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : STOWE renamed

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	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
003	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	NYLON	-	357 (350.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	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 : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL
AKSEL 2B ARRIVAL

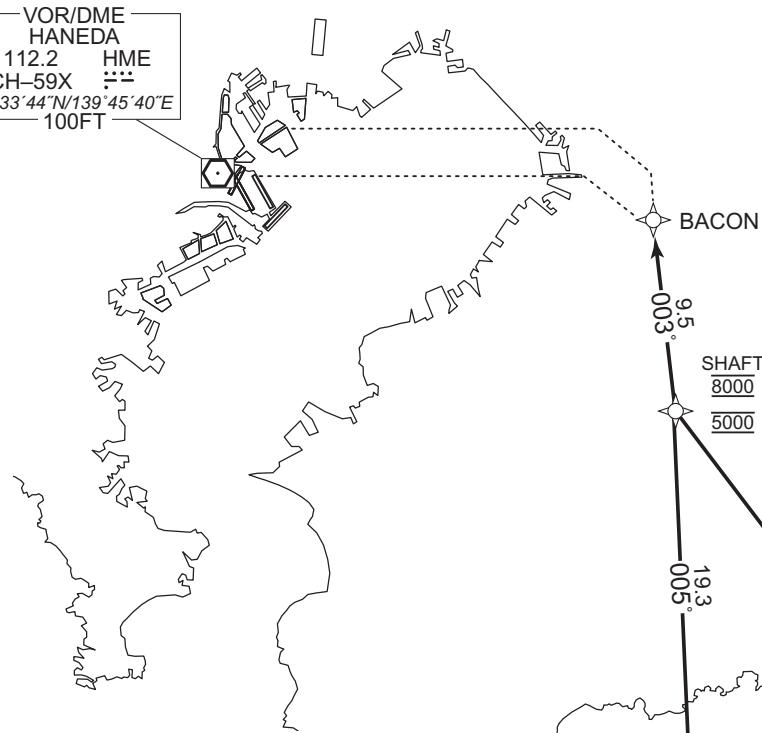
RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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° ↘ 003°

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

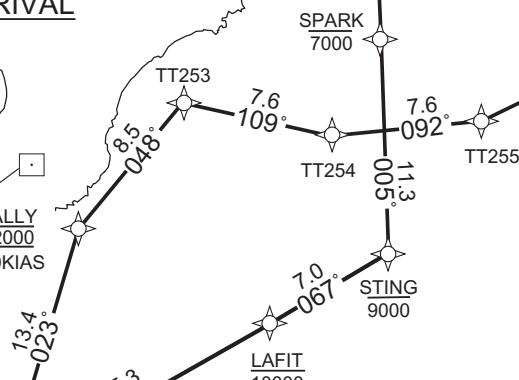
TACAN
ONJUKU
1191 OJT
CH-104X
35°11'03"N/140°22'17"E
400FT

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

SALLY
12000
230KIAS



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
12000
230KIAS

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
067° ↗ 241°

CHANGE : STOWE renamed

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	—	—	-7.5	—	—	12000	230	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.5	13.4	—	12000	230	—	RNAV1
003	TF	TT253	—	048 (040.5)	-7.5	8.5	—	—	—	—	RNAV1
004	TF	TT254	—	109 (102.0)	-7.5	7.6	—	—	—	—	RNAV1
005	TF	TT255	—	092 (084.4)	-7.5	7.6	—	—	—	—	RNAV1
006	TF	STOWE	—	071 (063.6)	-7.5	9.6	—	12000	230	—	RNAV1
007	TF	SHAFT	—	330 (322.4)	-7.5	24.0	—	8000	—	—	RNAV1
008	TF	BACON	—	003 (355.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : STOWE renamed

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	-	-	-7.5	-	-	12000	230	-	RNAV1
002	TF	LAFIT	-	067 (059.5)	-7.5	15.3	-	-10000	-	-	RNAV1
003	TF	STING	-	067 (059.6)	-7.5	7.0	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	BACON	-	003 (355.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	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 : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

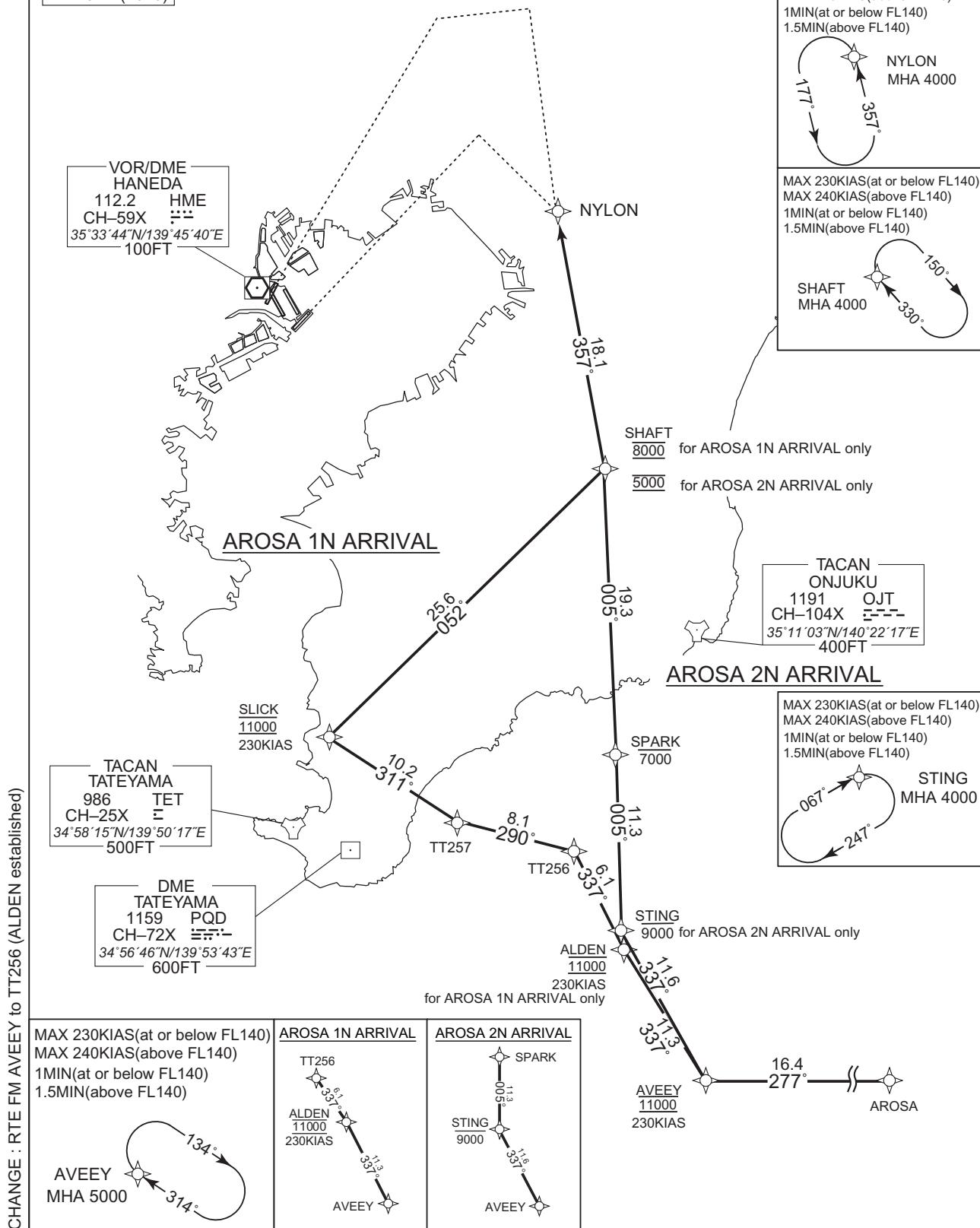
AROSA 1N ARRIVAL
AROSA 2N ARRIVAL

RNAV STAR RWY22/23

RNAV 1

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

VAR 8° W(2019)



CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.5	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.5	25.6	-	8000	-	-	RNAV1
008	TF	NYLON	-	357 (350.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : RTE FM AVEEY to TT256 (ALDEN established). HLDG pattern at STING deleted.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	STING	-	337 (330.0)	-7.5	11.6	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	NYLON	-	357 (350.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	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 : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

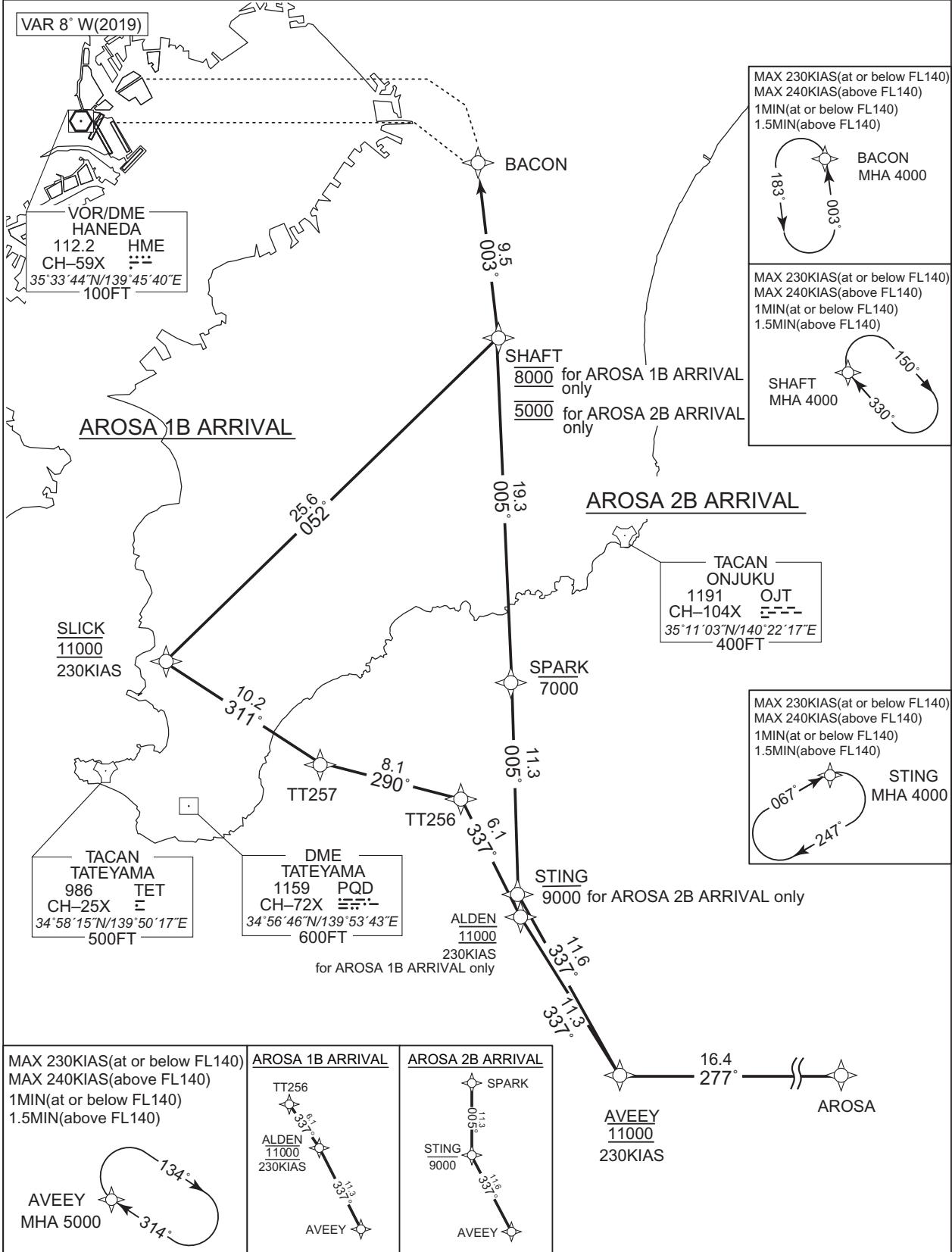
RNAV STAR RWY22/23

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.



CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.5	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.5	25.6	-	8000	-	-	RNAV1
008	TF	BACON	-	003 (355.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : RTE FM AVEEY to TT256 (ALDEN established). HLDG pattern at STING deleted.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	STING	-	337 (330.0)	-7.5	11.6	-	-9000	-	-	RNAV1
004	TF	SPARK	-	005 (357.4)	-7.5	11.3	-	-7000	-	-	RNAV1
005	TF	SHAFT	-	005 (357.4)	-7.5	19.3	-	5000	-	-	RNAV1
006	TF	BACON	-	003 (355.2)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	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 : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

GODIN 1S ARRIVAL
GODIN 1D ARRIVAL

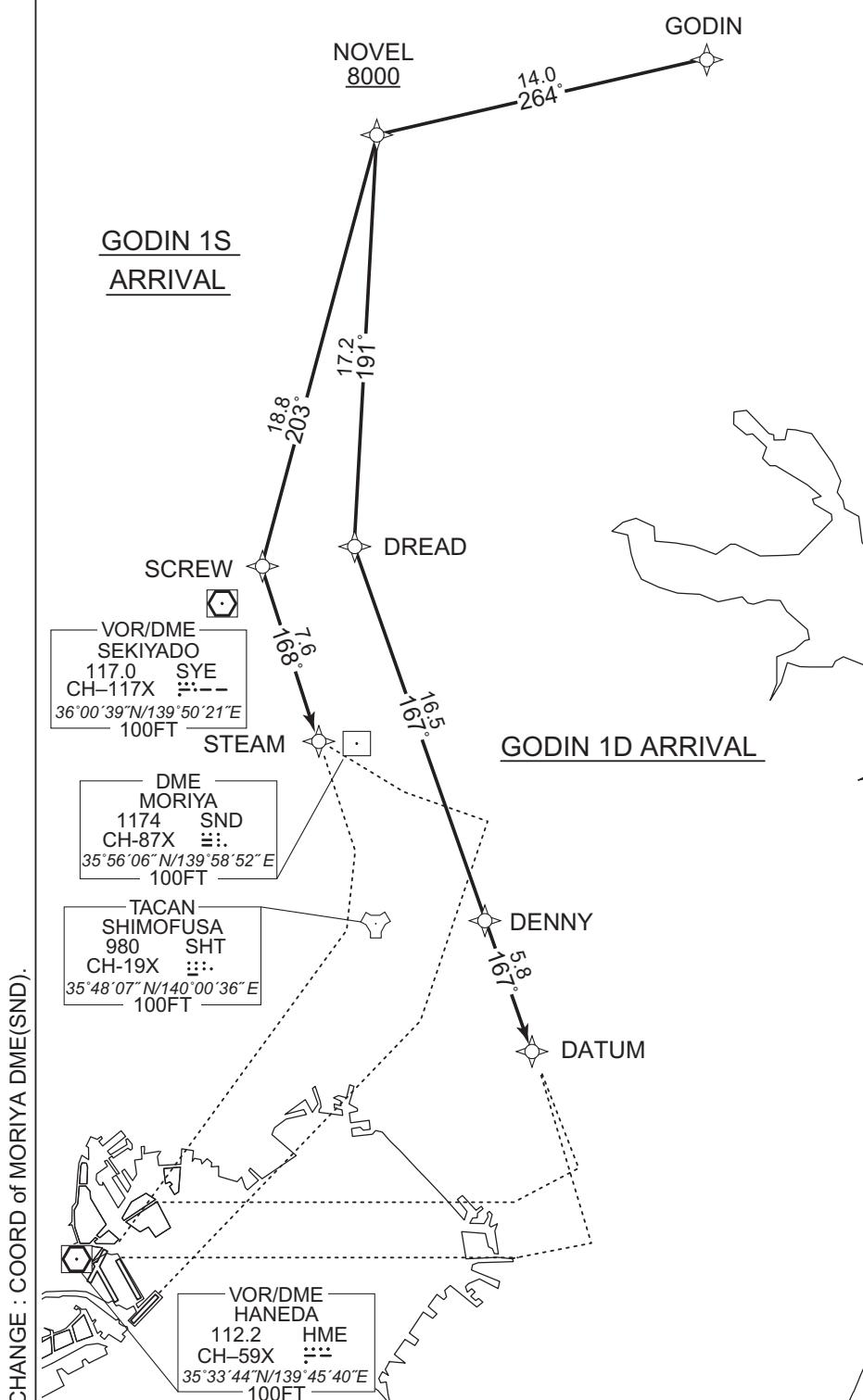
RNAV STAR RWY22/23

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



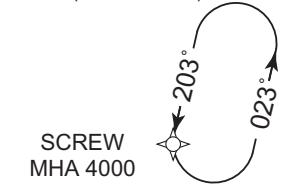
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



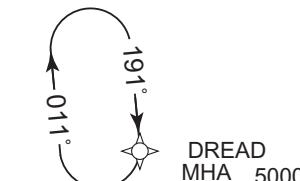
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



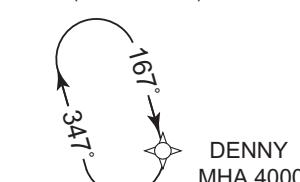
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



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



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



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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
003	TF	SCREW	-	203 (195.2)	-7.5	18.8	-	-	-	-	RNAV1
004	TF	STEAM	-	168 (160.4)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
003	TF	DREAD	-	191 (183.1)	-7.5	17.2	-	-	-	-	RNAV1
004	TF	DENNY	-	167 (159.9)	-7.5	16.5	-	-	-	-	RNAV1
005	TF	DATUM		167 (160.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	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	SCREW	360301.2N / 1395400.4E
DREAD	360359.2N / 1395856.9E	STEAM	355553.3N / 1395708.4E
GODIN	362425.3N / 1401655.9E		

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

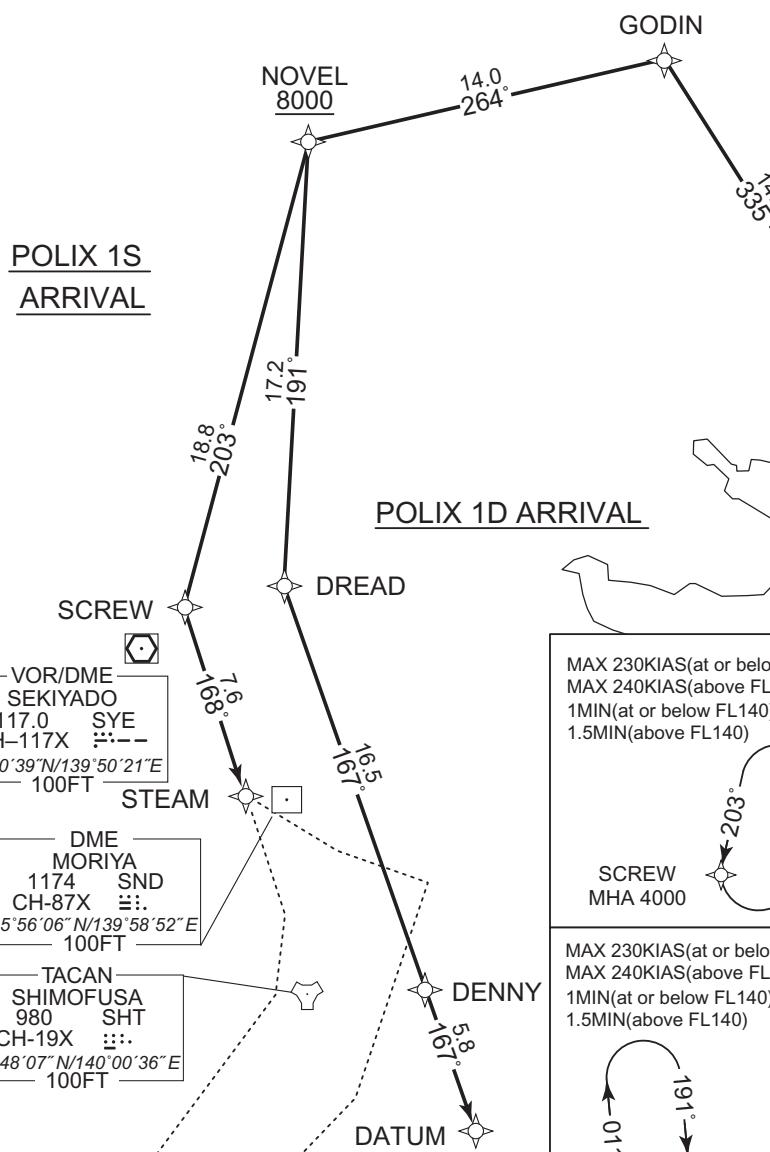
POLIX 1S ARRIVAL
POLIX 1D ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



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)
SCREW MHA 4000	POLIX MHA 11000
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	GODIN MHA 8000

CHANGE : COORD of MORIYA DME(SND).

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	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	GODIN	-	335 (327.2)	-7.5	14.1	-	-	-	-	RNAV1
003	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
004	TF	SCREW	-	203 (195.2)	-7.5	18.8	-	-	-	-	RNAV1
005	TF	STEAM	-	168 (160.4)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : Restriction on NOVEL

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	-	-	-7.5	-	-	FL150	-	-	RNAV1
002	TF	GODIN	-	335 (327.2)	-7.5	14.1	-	-	-	-	RNAV1
003	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	+8000	-	-	RNAV1
004	TF	DREAD	-	191 (183.1)	-7.5	17.2	-	-	-	-	RNAV1
005	TF	DENNY	-	167 (159.9)	-7.5	16.5	-	-	-	-	RNAV1
006	TF	DATUM	-	167 (160.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	L	11000	-	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	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 : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL
OSHIMA R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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

NUMAN
MHA 4000

180°
360°

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

NEURO
MHA 4000

110°
290°

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

ANZAC
MHA 5000

248°
068°

OSHIMA L ARRIVAL
OSHIMA R ARRIVAL

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)

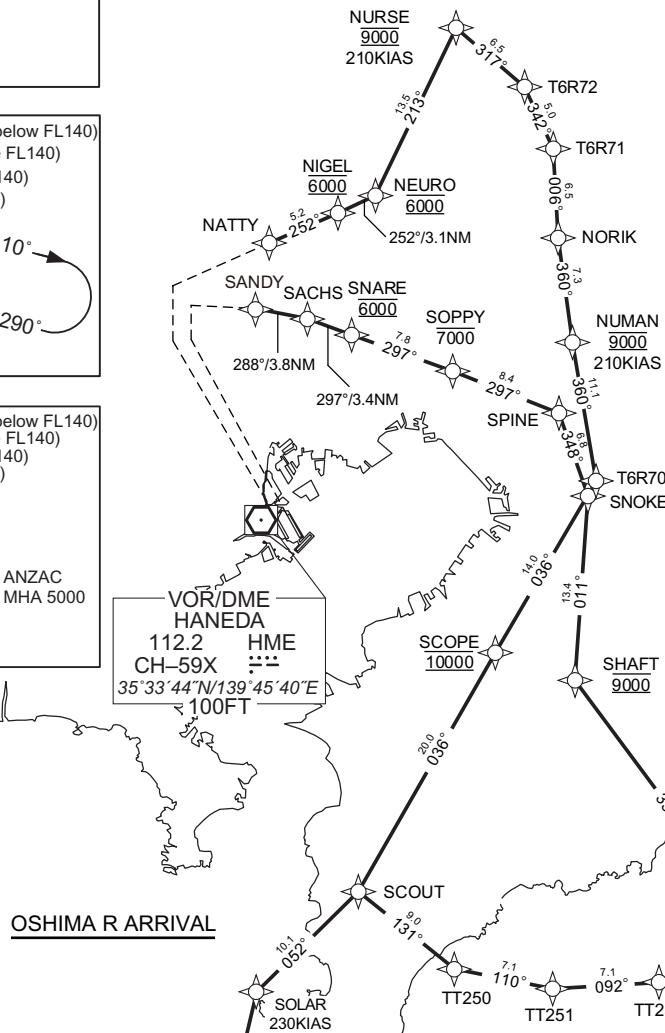
SPINE
MHA 4000

168°
348°

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

SHAFT
MHA 4000

150°
330°



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°

OSHIMA L ARRIVAL

SPINE
SNOKE

13.4
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SHAFT
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OSHIMA R ARRIVAL

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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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	068 (060.8)	-7.5	15.9	-	-	-	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.5	9.1	-	13000	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.5	10.1	-	-	-	-	RNAV1
005	TF	TT250	-	131 (123.1)	-7.5	9.0	-	-	-	-	RNAV1
006	TF	TT251	-	110 (102.5)	-7.5	7.1	-	-	-	-	RNAV1
007	TF	TT252	-	092 (084.3)	-7.5	7.1	-	-	-	-	RNAV1
008	TF	STOCK	-	071 (063.6)	-7.5	9.0	-	13000	230	-	RNAV1
009	TF	SHAFT	-	330 (322.4)	-7.5	22.5	-	9000		-	RNAV1
010	TF	SNOKE	-	011 (003.4)	-7.5	13.4	-	-	-	-	RNAV1
011	TF	SPINE	-	348 (340.6)	-7.5	6.8	-	-	-	-	RNAV1
012	TF	SOPPY	-	297 (289.2)	-7.5	8.4	-	-7000	-	-	RNAV1
013	TF	SNARE	-	297 (289.1)	-7.5	7.8	-	6000	-	-	RNAV1
014	TF	SACHS	-	297 (289.0)	-7.5	3.4	-	-	-	-	RNAV1
015	TF	SANDY	-	288 (280.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	ANZAC	-	068 (060.8)	-7.5	15.9	-	-	-	-	RNAV1
003	TF	SOLAR	-	026 (018.4)	-7.5	9.1	-	-	230	-	RNAV1
004	TF	SCOUT	-	052 (044.3)	-7.5	10.1	-	-	-	-	RNAV1
005	TF	SCOPE	-	036 (028.5)	-7.5	20.0	-	10000	-	-	RNAV1
006	TF	T6R70	-	036 (028.6)	-7.5	14.0	-	-	-	-	RNAV1
007	TF	NUMAN	-	360 (352.5)	-7.5	11.1	-	9000	210	-	RNAV1
008	TF	NORIK	-	360 (352.5)	-7.5	7.3	-	-	-	-	RNAV1
009	TF	T6R71	-	006 (358.9)	-7.5	6.5	-	-	-	-	RNAV1
010	TF	T6R72	-	342 (334.4)	-7.5	5.0	-	-	-	-	RNAV1
011	TF	NURSE	-	317 (309.8)	-7.5	6.5	-	9000	210	-	RNAV1
012	TF	NEURO	-	213 (205.5)	-7.5	13.5	-	6000	-	-	RNAV1
013	TF	NIGEL	-	252 (244.1)	-7.5	3.1	-	6000	-	-	RNAV1
014	TF	NATTY	-	252 (244.1)	-7.5	5.2	-	-	-	-	RNAV1

CHANGE : ACCORN abolished. ANZAC established.

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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	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
NORIK	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(2019)

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

NUMAN
MHA 4000

180°
360°

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

NEURO
MHA 4000

110°
290°

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

168°
348°

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

SHAFT
MHA 4000

150°
330°

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

AKSEL R ARRIVAL

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 L ARRIVAL

SPINE
SNOKE
134°
111°
071°
96°
TT253
TT254
TT255
SALLY
230KIAS
12000ft for AKSEL L ARRIVAL only
SCOUT
AKSEL

AKSEL R ARRIVAL

NUMAN (9000ft, 210KIAS)
360°
T6R70
SCOPE (10000ft)

CHANGE : T6L60 abolished. SACHS established.

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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.5	13.4	—	12000	230	—	RNAV1
003	TF	TT253	—	048 (040.5)	-7.5	8.5	—	—	—	—	RNAV1
004	TF	TT254	—	109 (102.0)	-7.5	7.6	—	—	—	—	RNAV1
005	TF	TT255	—	092 (084.4)	-7.5	7.6	—	—	—	—	RNAV1
006	TF	STOWE	—	071 (063.6)	-7.5	9.6	—	12000	230	—	RNAV1
007	TF	SHAFT	—	330 (322.4)	-7.5	24.0	—	9000	—	—	RNAV1
008	TF	SNOKE	—	011 (003.4)	-7.5	13.4	—	—	—	—	RNAV1
009	TF	SPINE	—	348 (340.6)	-7.5	6.8	—	—	—	—	RNAV1
010	TF	SOPPY	—	297 (289.2)	-7.5	8.4	—	-7000	—	—	RNAV1
011	TF	SNARE	—	297 (289.1)	-7.5	7.8	—	6000	—	—	RNAV1
012	TF	SACHS	—	297 (289.0)	-7.5	3.4	—	—	—	—	RNAV1
013	TF	SANDY	—	288 (280.0)	-7.5	3.8	—	—	—	—	RNAV1

CHANGE : T6L60 abolished, SACHS established.

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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	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	—	—	-7.5	—	—	—	—	—	RNAV1
002	TF	SALLY	—	023 (015.0)	-7.5	13.4	—	—	230	—	RNAV1
003	TF	SCOUT	—	001 (353.7)	-7.5	12.9	—	—	—	—	RNAV1
004	TF	SCOPE	—	036 (028.5)	-7.5	20.0	—	10000	—	—	RNAV1
005	TF	T6R70	—	036 (028.6)	-7.5	14.0	—	—	—	—	RNAV1
006	TF	NUMAN	—	360 (352.5)	-7.5	11.1	—	9000	210	—	RNAV1
007	TF	NORIK	—	360 (352.5)	-7.5	7.3	—	—	—	—	RNAV1
008	TF	T6R71	—	006 (358.9)	-7.5	6.5	—	—	—	—	RNAV1
009	TF	T6R72	—	342 (334.4)	-7.5	5.0	—	—	—	—	RNAV1
010	TF	NURSE	—	317 (309.8)	-7.5	6.5	—	9000	210	—	RNAV1
011	TF	NEURO	—	213 (205.5)	-7.5	13.5	—	6000	—	—	RNAV1
012	TF	NIGEL	—	252 (244.1)	-7.5	3.1	—	6000	—	—	RNAV1
013	TF	NATTY	—	252 (244.1)	-7.5	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	AKSEL	039 (031.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

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(2019)

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

NUMAN
MHA 4000

081°
096°
108°

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

NEURO
MHA 4000

110°
290°

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°
83°

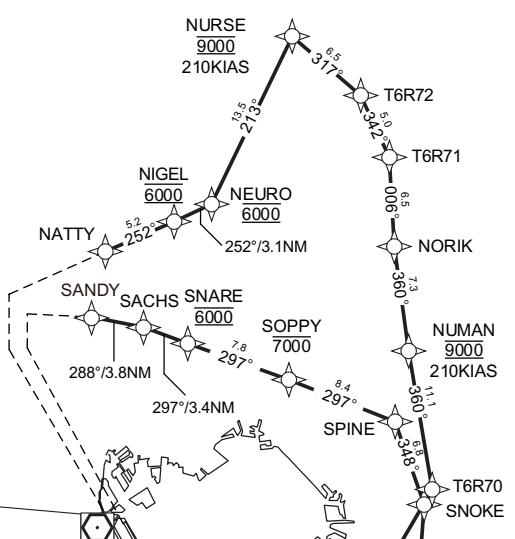
AROSA L ARRIVAL

SPINE
SNOKE
SHAFT
9000
13.4
011°
84°
83°
89°

AROSA R ARRIVAL

NUMAN
9000
210KIAS
096°
111°
T6R70
14°
036°
SCOPE
10000

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)

SHAFT
MHA 4000

150°
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°

CHANGE : T6L60 abolished. SACHS established.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SLICK	-	311 (303.1)	-7.5	10.2	-	11000	230	-	RNAV1
007	TF	SHAFT	-	052 (044.3)	-7.5	25.6	-	9000	-	-	RNAV1
008	TF	SNOKE	-	011 (003.4)	-7.5	13.4	-	-	-	-	RNAV1
009	TF	SPINE	-	348 (340.6)	-7.5	6.8	-	-	-	-	RNAV1
010	TF	SOPPY	-	297 (289.2)	-7.5	8.4	-	-7000	-	-	RNAV1
011	TF	SNARE	-	297 (289.1)	-7.5	7.8	-	6000	-	-	RNAV1
012	TF	SACHS	-	297 (289.0)	-7.5	3.4	-	-	-	-	RNAV1
013	TF	SANDY	-	288 (280.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	11000	230	-	RNAV1
003	TF	ALDEN	-	337 (330.0)	-7.5	11.3	-	11000	230	-	RNAV1
004	TF	TT256	-	337 (329.9)	-7.5	6.1	-	-	-	-	RNAV1
005	TF	TT257	-	290 (282.4)	-7.5	8.1	-	-	-	-	RNAV1
006	TF	SCOUT	-	328 (320.5)	-7.5	10.1	-	-	-	-	RNAV1
007	TF	SCOPE	-	036 (028.5)	-7.5	20.0	-	10000	-	-	RNAV1
008	TF	T6R70	-	036 (028.6)	-7.5	14.0	-	-	-	-	RNAV1
009	TF	NUMAN	-	360 (352.5)	-7.5	11.1	-	9000	210	-	RNAV1
010	TF	NORIK	-	360 (352.5)	-7.5	7.3	-	-	-	-	RNAV1
011	TF	T6R71	-	006 (358.9)	-7.5	6.5	-	-	-	-	RNAV1
012	TF	T6R72	-	342 (334.4)	-7.5	5.0	-	-	-	-	RNAV1
013	TF	NURSE	-	317 (309.8)	-7.5	6.5	-	9000	210	-	RNAV1
014	TF	NEURO	-	213 (205.5)	-7.5	13.5	-	6000	-	-	RNAV1
015	TF	NIGEL	-	252 (244.1)	-7.5	3.1	-	6000	-	-	RNAV1
016	TF	NATTY	-	252 (244.1)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	-	L	4000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

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

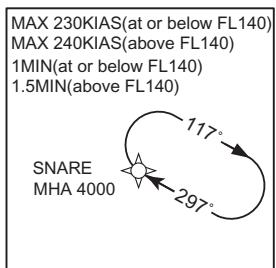
GODIN L ARRIVAL
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

RNAV 1

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

VAR 8° W(2019)



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

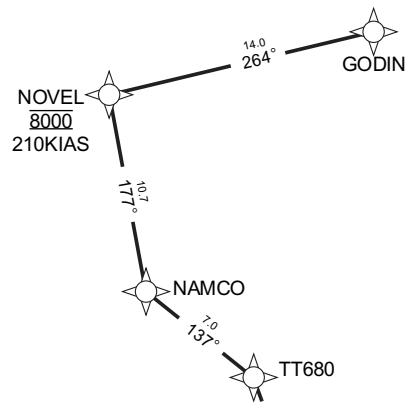
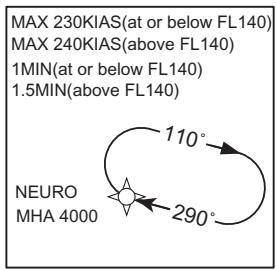
NOVEL
MHA 5000

264°
084°

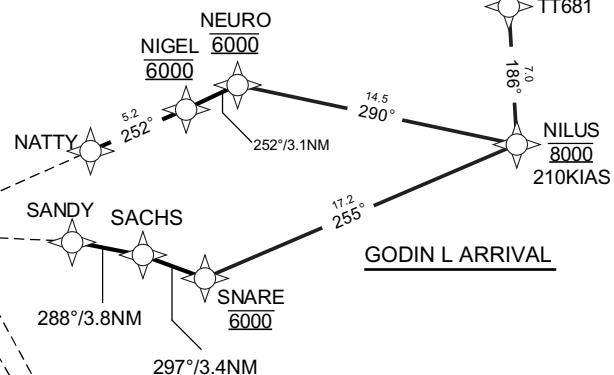
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

017°
197°

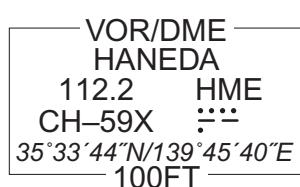
GODIN
MHA 8000



GODIN R ARRIVAL



GODIN L ARRIVAL



CHANGE : T6L60 abolished, SACHS established.

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	NOVEL	-	264 (256.4)	-7.5	14.0	-	8000	210	-	RNAV1
003	TF	NAMCO	-	177 (169.8)	-7.5	10.7	-	-	-	-	RNAV1
004	TF	TT680	-	137 (129.7)	-7.5	7.0	-	-	-	-	RNAV1
005	TF	TT681	-	162 (154.3)	-7.5	5.4	-	-	-	-	RNAV1
006	TF	NILUS	-	186 (178.9)	-7.5	7.0	-	8000	210	-	RNAV1
007	TF	SNARE	-	255 (247.0)	-7.5	17.2	-	6000	-	-	RNAV1
008	TF	SACHS	-	297 (289.0)	-7.5	3.4	-	-	-	-	RNAV1
009	TF	SANDY	-	288 (280.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	8000	-	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	-	L	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

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	–	–	-7.5	–	–	–	–	–	RNAV1
002	TF	NOVEL	–	264 (256.4)	-7.5	14.0	–	8000	210	–	RNAV1
003	TF	NAMCO	–	177 (169.8)	-7.5	10.7	–	–	–	–	RNAV1
004	TF	TT680	–	137 (129.7)	-7.5	7.0	–	–	–	–	RNAV1
005	TF	TT681	–	162 (154.3)	-7.5	5.4	–	–	–	–	RNAV1
006	TF	NILUS	–	186 (178.9)	-7.5	7.0	–	8000	210	–	RNAV1
007	TF	NEURO	–	290 (282.9)	-7.5	14.5	–	6000	–	–	RNAV1
008	TF	NIGEL	–	252 (244.1)	-7.5	3.1	–	6000	–	–	RNAV1
009	TF	NATTY	–	252 (244.1)	-7.5	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	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	–	R	8000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	–	L	5000	–	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	–	R	4000	–	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

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

RNAV STAR RWY16L/16R

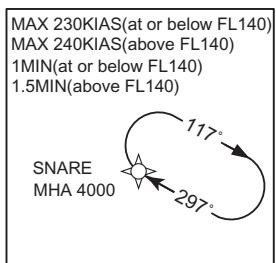
POLIX L ARRIVAL
POLIX R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



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

NOVEL
MHA 5000



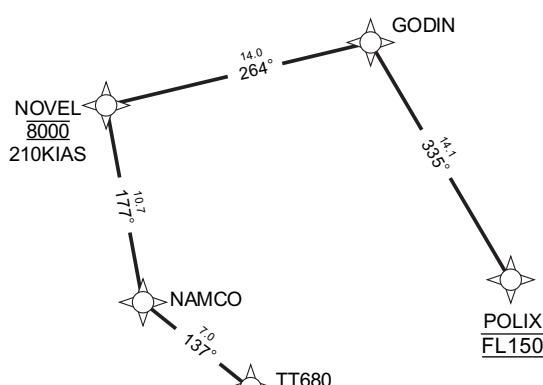
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

GODIN
MHA 8000

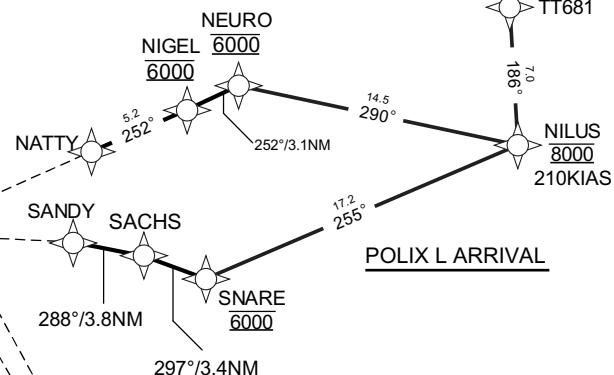


MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

POLIX
MHA 11000



POLIX R ARRIVAL



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

CHANGE : T6L60 abolished. SACHS established.

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	—	—	-7.5	—	—	FL150	—	—	RNAV1
002	TF	GODIN	—	335 (327.2)	-7.5	14.1	—	—	—	—	RNAV1
003	TF	NOVEL	—	264 (256.4)	-7.5	14.0	—	8000	210	—	RNAV1
004	TF	NAMCO	—	177 (169.8)	-7.5	10.7	—	—	—	—	RNAV1
005	TF	TT680	—	137 (129.7)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT681	—	162 (154.3)	-7.5	5.4	—	—	—	—	RNAV1
007	TF	NILUS	—	186 (178.9)	-7.5	7.0	—	8000	210	—	RNAV1
008	TF	SNARE	—	255 (247.0)	-7.5	17.2	—	6000	—	—	RNAV1
009	TF	SACHS	—	297 (289.0)	-7.5	3.4	—	—	—	—	RNAV1
010	TF	SANDY	—	288 (280.0)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : T6L60 abolished. SACHS established.

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	—	—	-7.5	—	—	FL150	—	—	RNAV1
002	TF	GODIN	—	335 (327.2)	-7.5	14.1	—	—	—	—	RNAV1
003	TF	NOVEL	—	264 (256.4)	-7.5	14.0	—	8000	210	—	RNAV1
004	TF	NAMCO	—	177 (169.8)	-7.5	10.7	—	—	—	—	RNAV1
005	TF	TT680	—	137 (129.7)	-7.5	7.0	—	—	—	—	RNAV1
006	TF	TT681	—	162 (154.3)	-7.5	5.4	—	—	—	—	RNAV1
007	TF	NILUS	—	186 (178.9)	-7.5	7.0	—	8000	210	—	RNAV1
008	TF	NEURO	—	290 (282.9)	-7.5	14.5	—	6000	—	—	RNAV1
009	TF	NIGEL	—	252 (244.1)	-7.5	3.1	—	6000	—	—	RNAV1
010	TF	NATTY	—	252 (244.1)	-7.5	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	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : New PROC

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

RJTT / TOKYO INTL

RNAV STAR

OSHIMA NIGHT ARRIVAL / AKSEL NIGHT ARRIVAL
AROSA NIGHT ARRIVAL / MESSE NIGHT ARRIVAL

RNAV 1

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

VAR 8° W(2019)

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)

KAIHO
MHA 4000

353°
353°

DME
YOKOSUKA
1196 HYD
CH-109X ---
35°15'20"N/139°35'15"E
500FT

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

OSHIMA NIGHT ARRIVAL

VORTAC
OSHIMA
113.1 XAC
CH-78X ---
34°42'44"N/139°24'50"E
2100FT

OSHIMA
(XAC)

UMUKI
6000

MESSE NIGHT ARRIVAL

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

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

UTIBO

AROSA NIGHT ARRIVAL

AVEEY
16.4 277°
AROSA

AKSEL NIGHT ARRIVAL

AKSEL
MHA 5000

039°
219°

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

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

734°
374°

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	067 (059.2)	-7.5	27.6	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	014 (006.6)	-7.5	16.2	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	-	-	-	RNAV1
003	TF	UTIBO	-	310 (302.8)	-7.5	27.5	-	-	-	-	RNAV1
004	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
005	TF	KAIHO	-	353 (345.5)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	246 (238.8)	-7.5	27.4	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	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	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	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	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

RJTT / TOKYO INTL

RNAV STAR

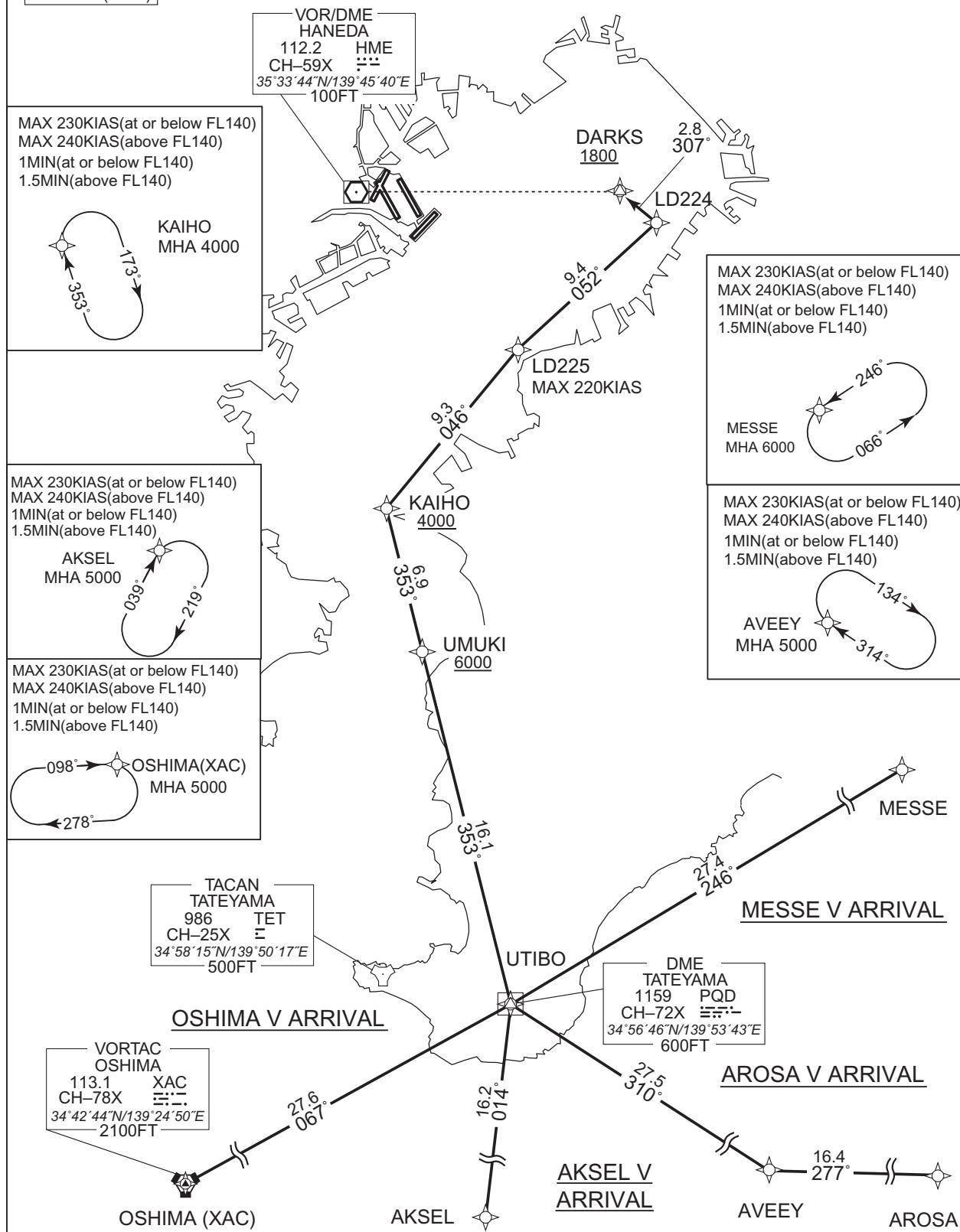
**OSHIMA V ARRIVAL / AKSEL V ARRIVAL
AROSA V ARRIVAL / MESSE V ARRIVAL**

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	067 (059.2)	-7.5	27.6	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	307 (299.7)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	014 (006.6)	-7.5	16.2	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	307 (299.7)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	AVEEY	-	277 (269.8)	-7.5	16.4	-	-	-	-	RNAV1
003	TF	UTIBO	-	310 (302.8)	-7.5	27.5	-	-	-	-	RNAV1
004	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
005	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
006	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
007	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
008	TF	DARKS	-	307 (299.7)	-7.5	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)	-7.5	1.0(-14000) 1.5(+14001)	-	R	5000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

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

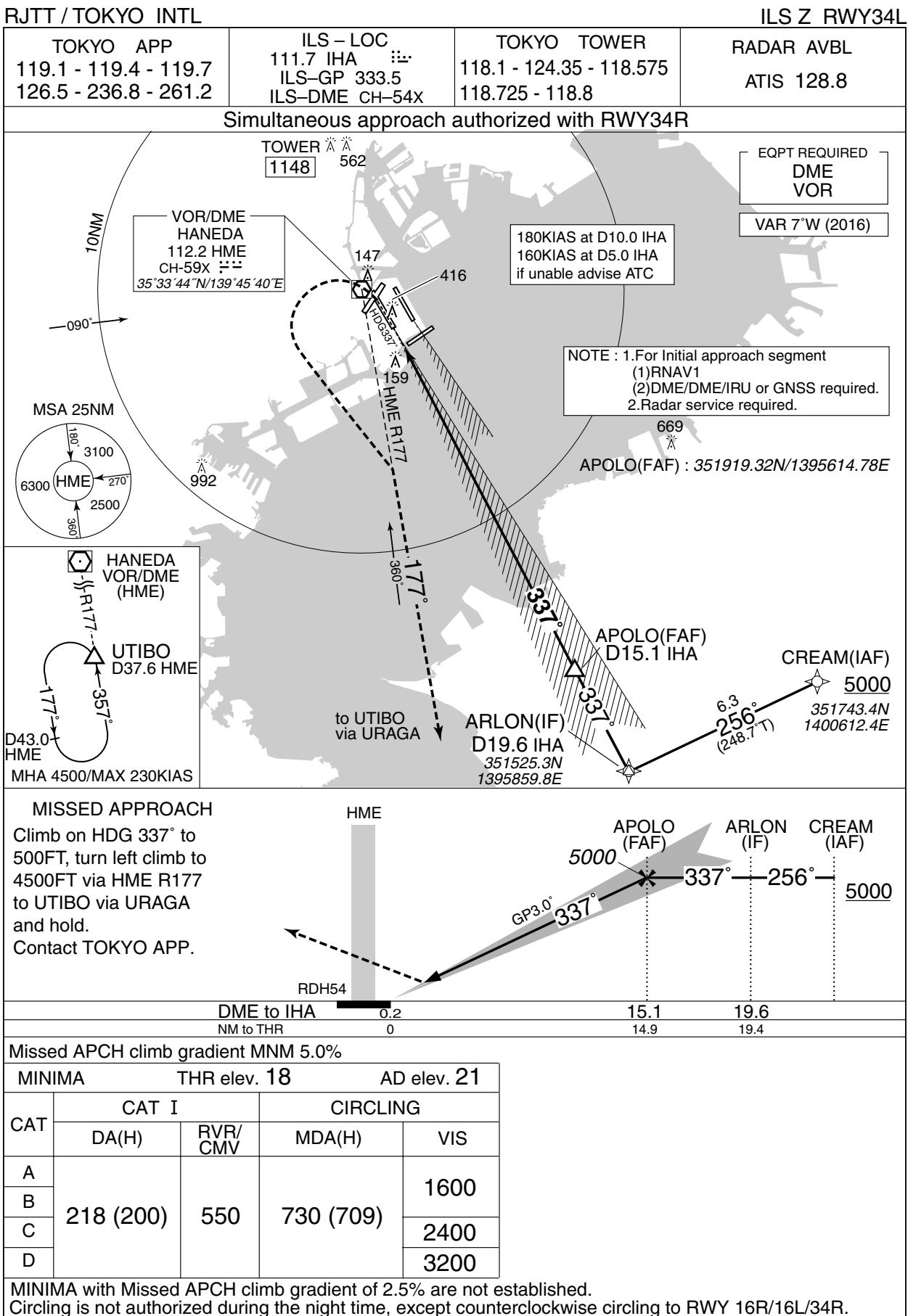
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	MESSE	-	-	-7.5	-	-	-	-	-	RNAV1
002	TF	UTIBO	-	246 (238.8)	-7.5	27.4	-	-	-	-	RNAV1
003	TF	UMUKI	-	353 (345.5)	-7.5	16.1	-	+6000	-	-	RNAV1
004	TF	KAIHO	-	353 (345.5)	-7.5	6.9	-	+4000	-	-	RNAV1
005	TF	LD225	-	046 (038.9)	-7.5	9.3	-	-	-220	-	RNAV1
006	TF	LD224	-	052 (044.9)	-7.5	9.4	-	-	-	-	RNAV1
007	TF	DARKS	-	307 (299.7)	-7.5	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	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	-	L	6000	-	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	-	R	4000	-	-230(-14000) -240(+14001)	RNAV1

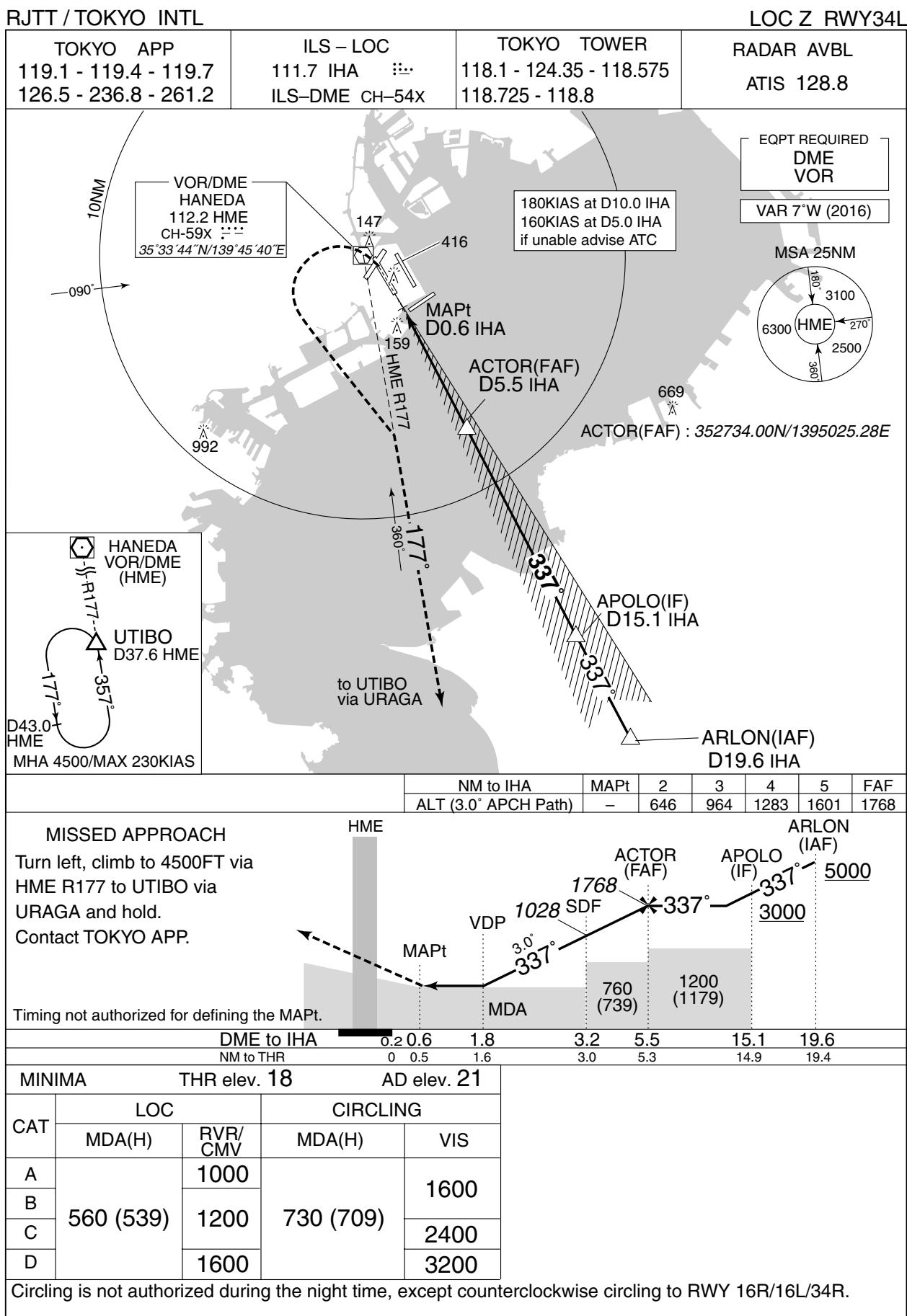
Waypoint Coordinates

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		

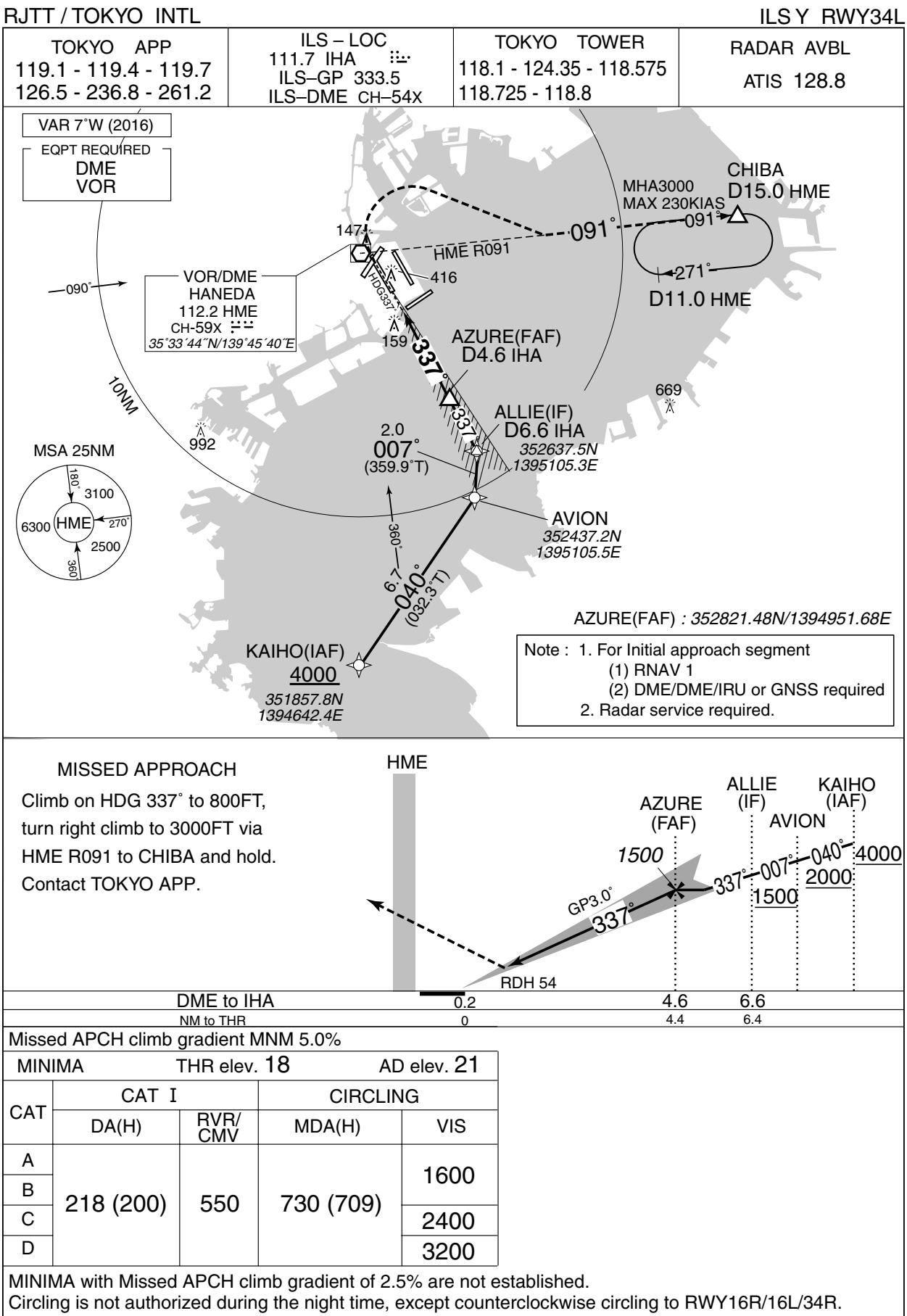
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



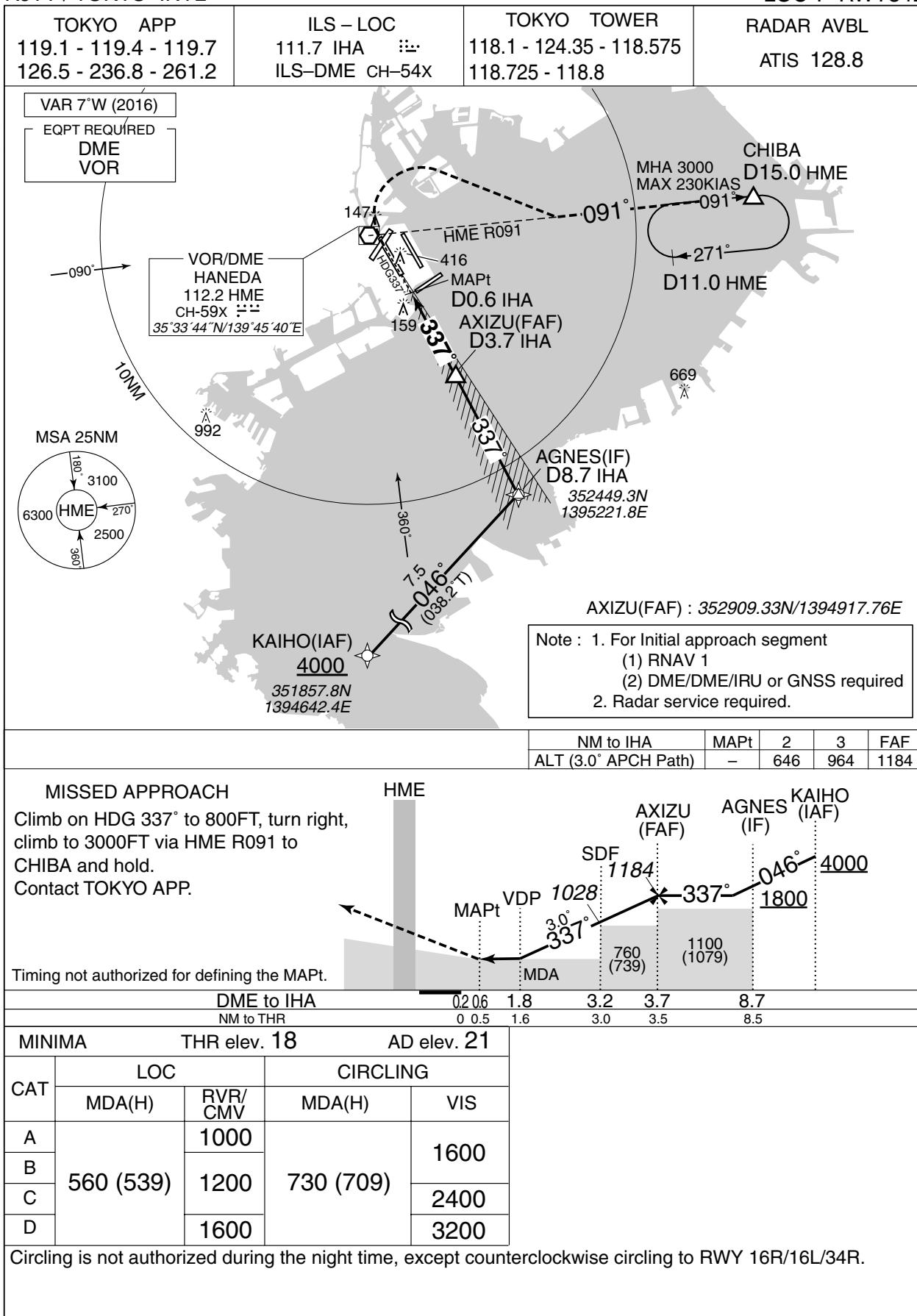
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INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

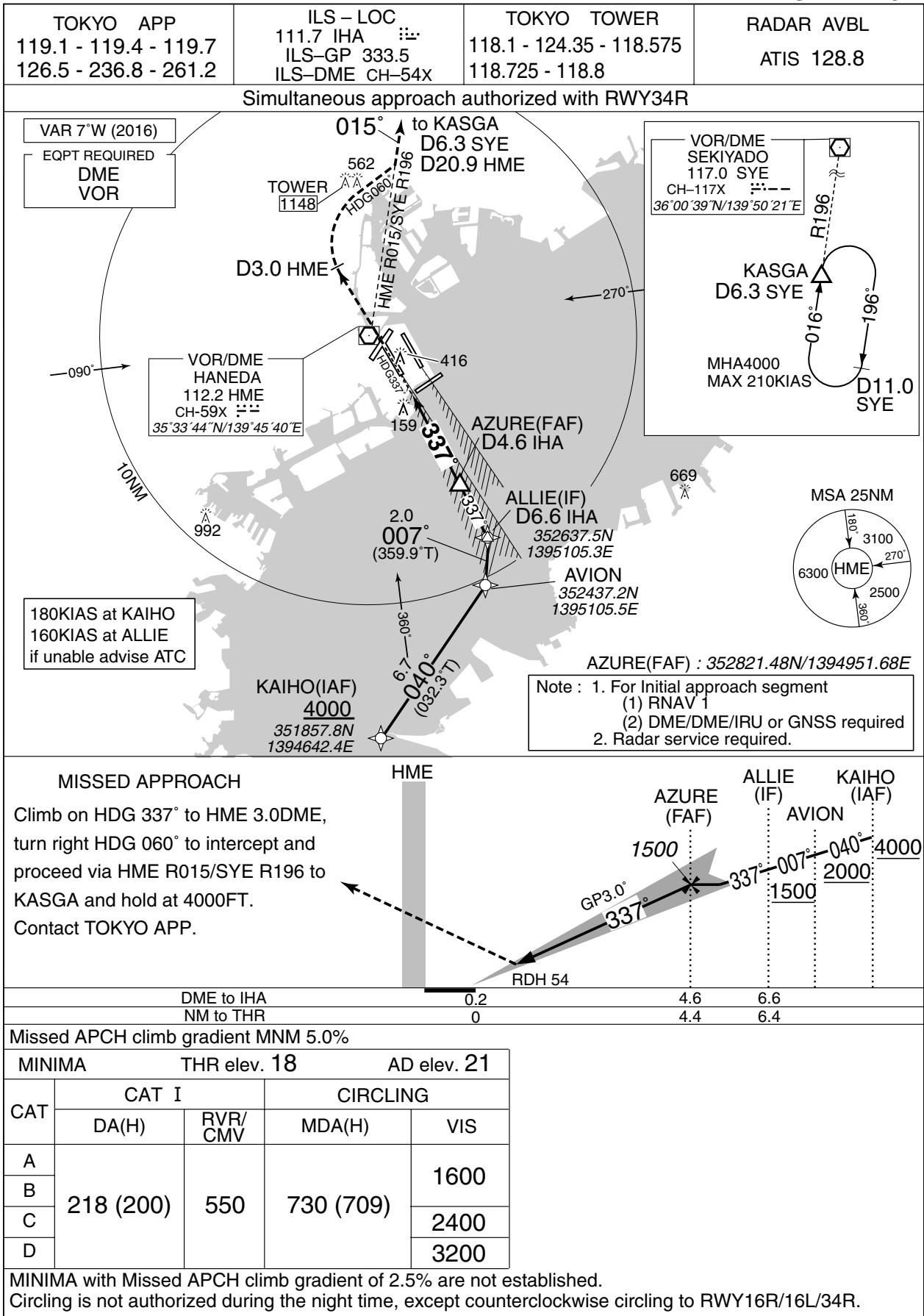
LOC Y RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

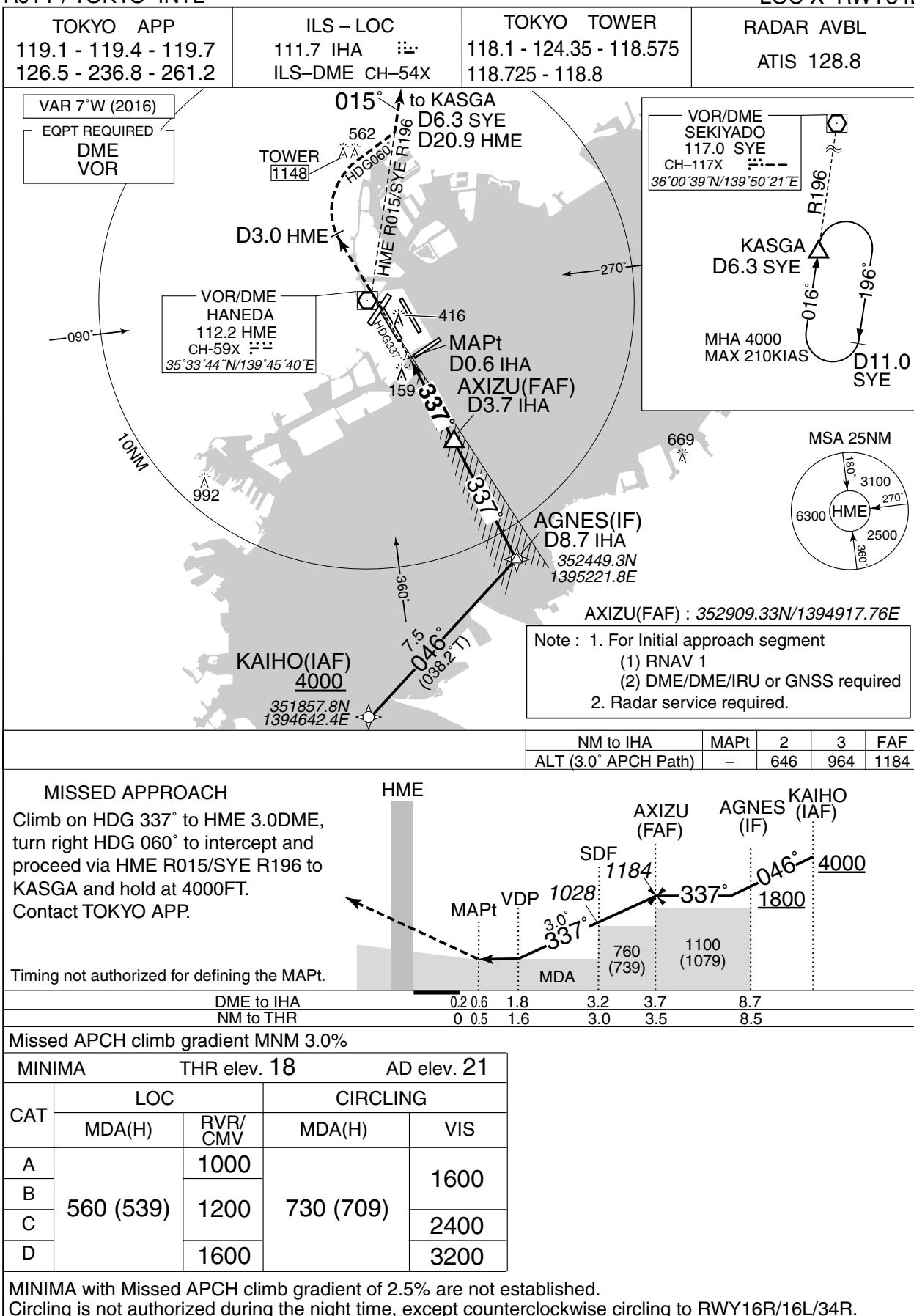
ILS X RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

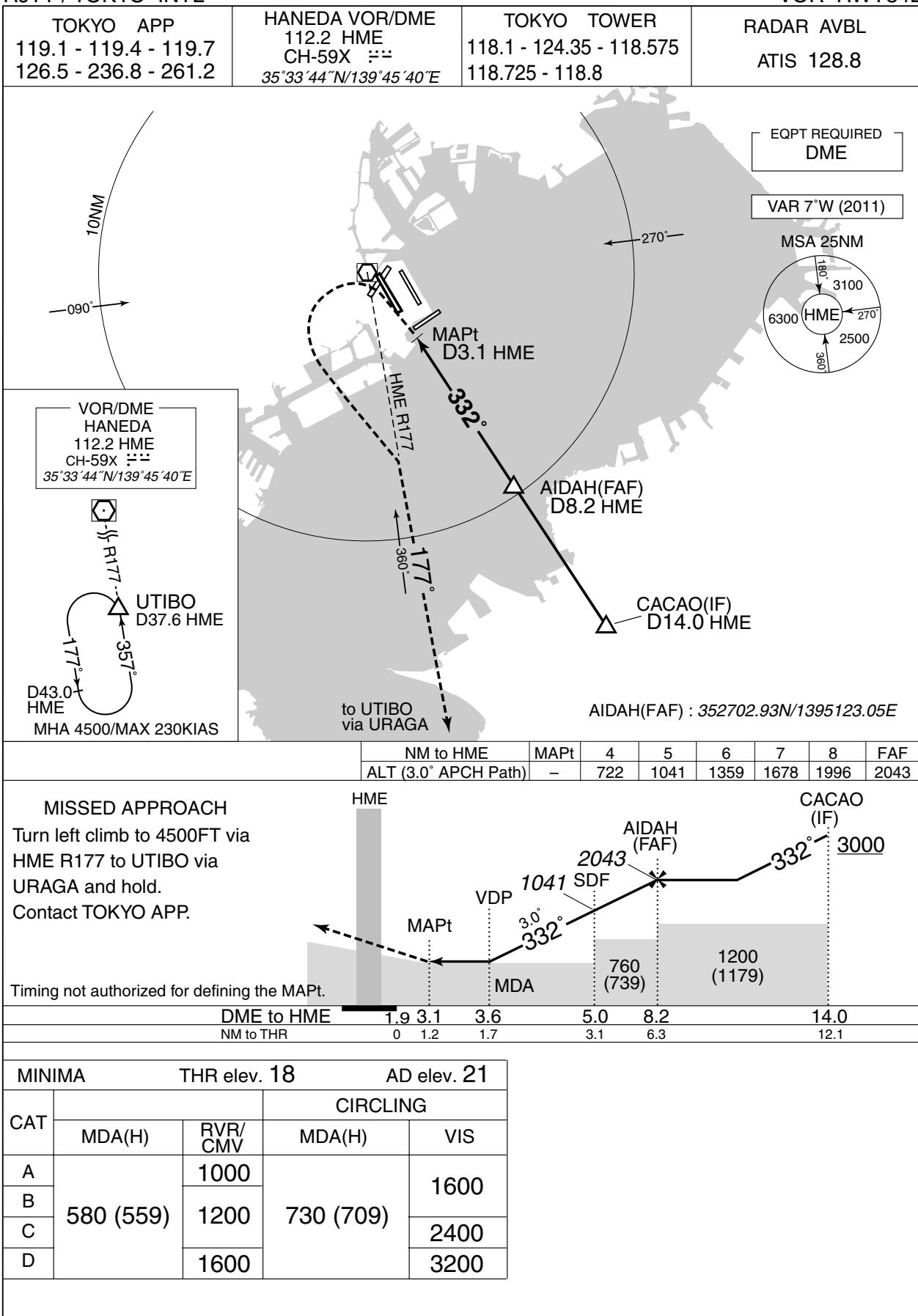
LOC X RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

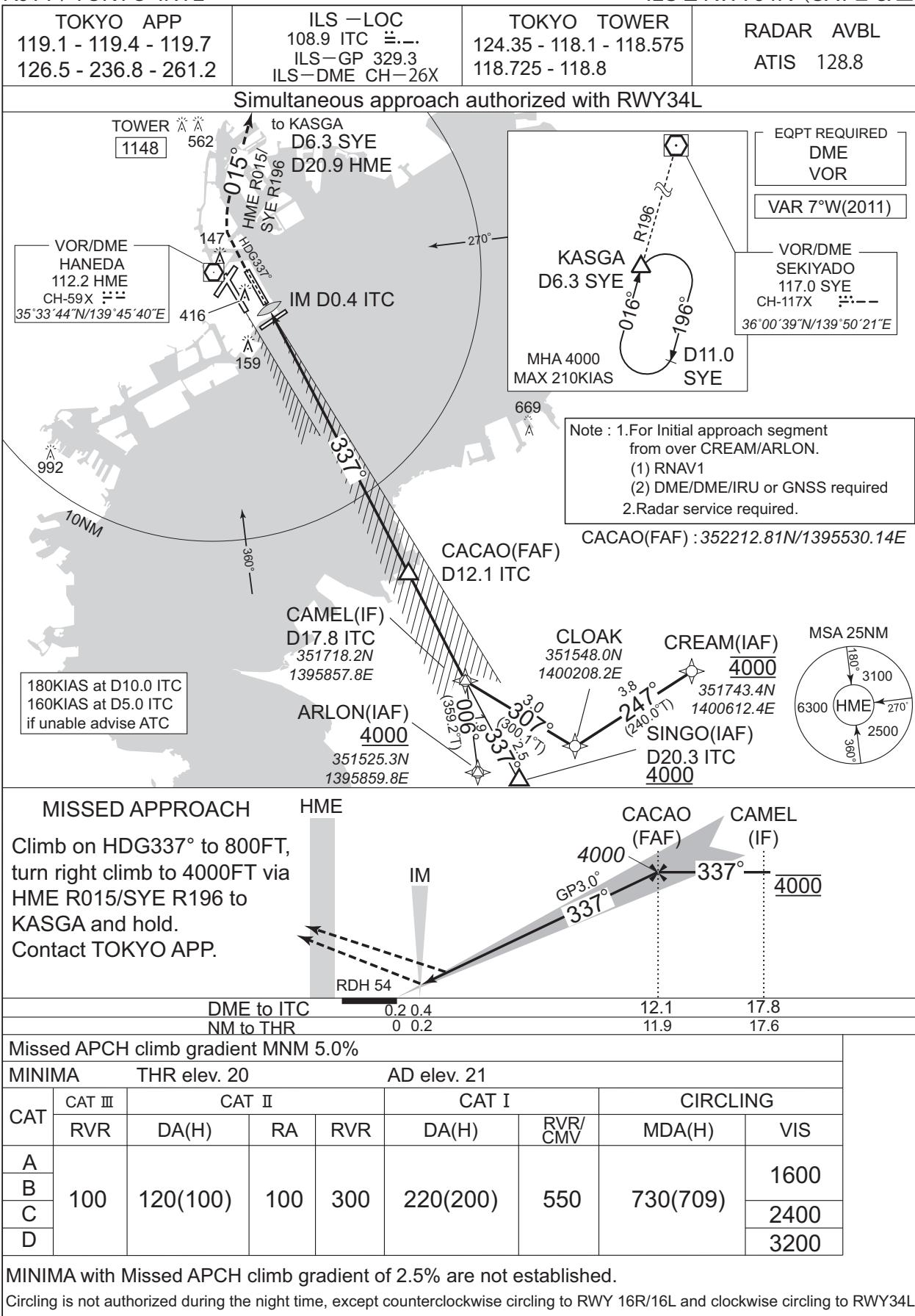
VOR RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

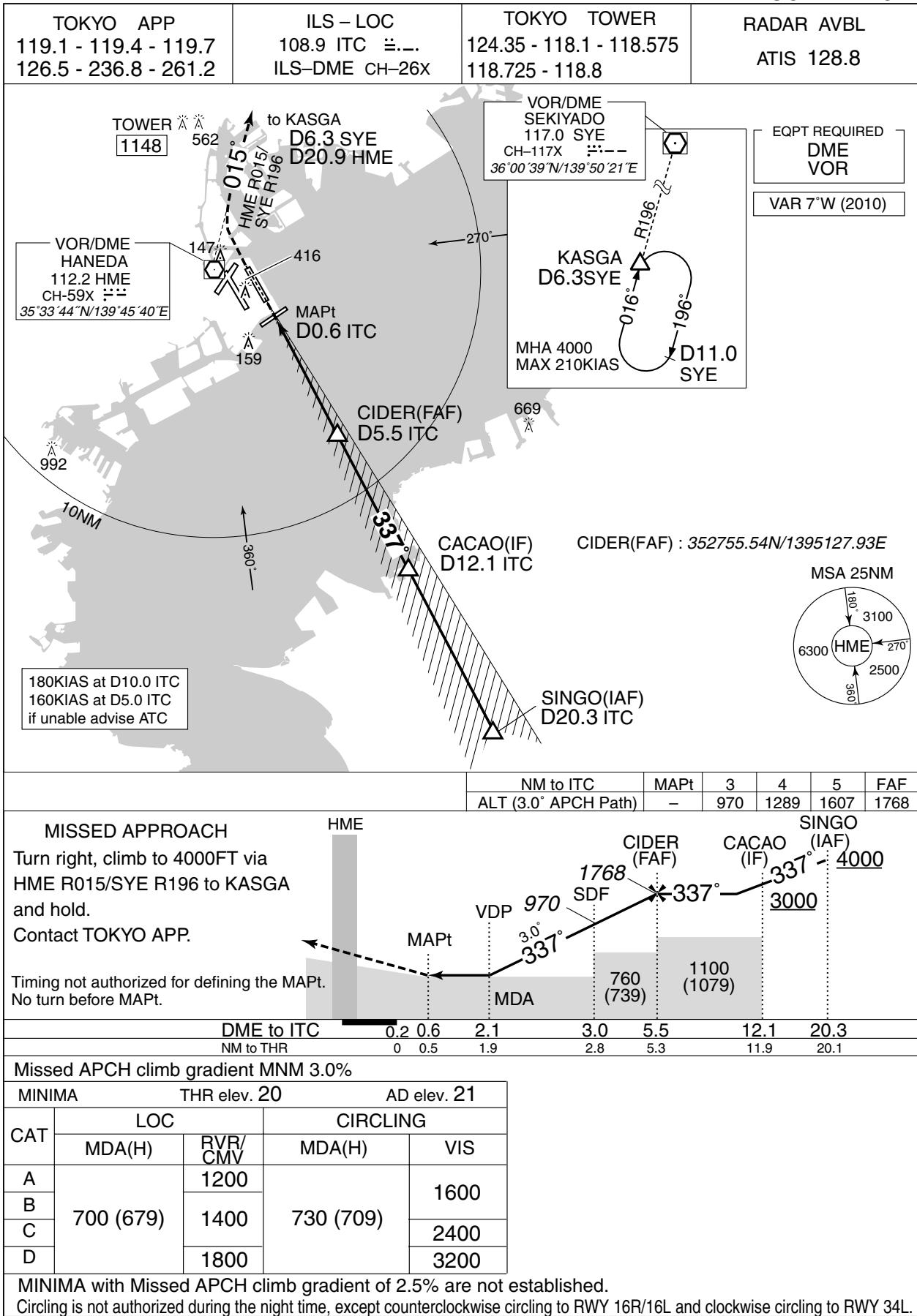
ILS Z RWY34R (CAT II & III)



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

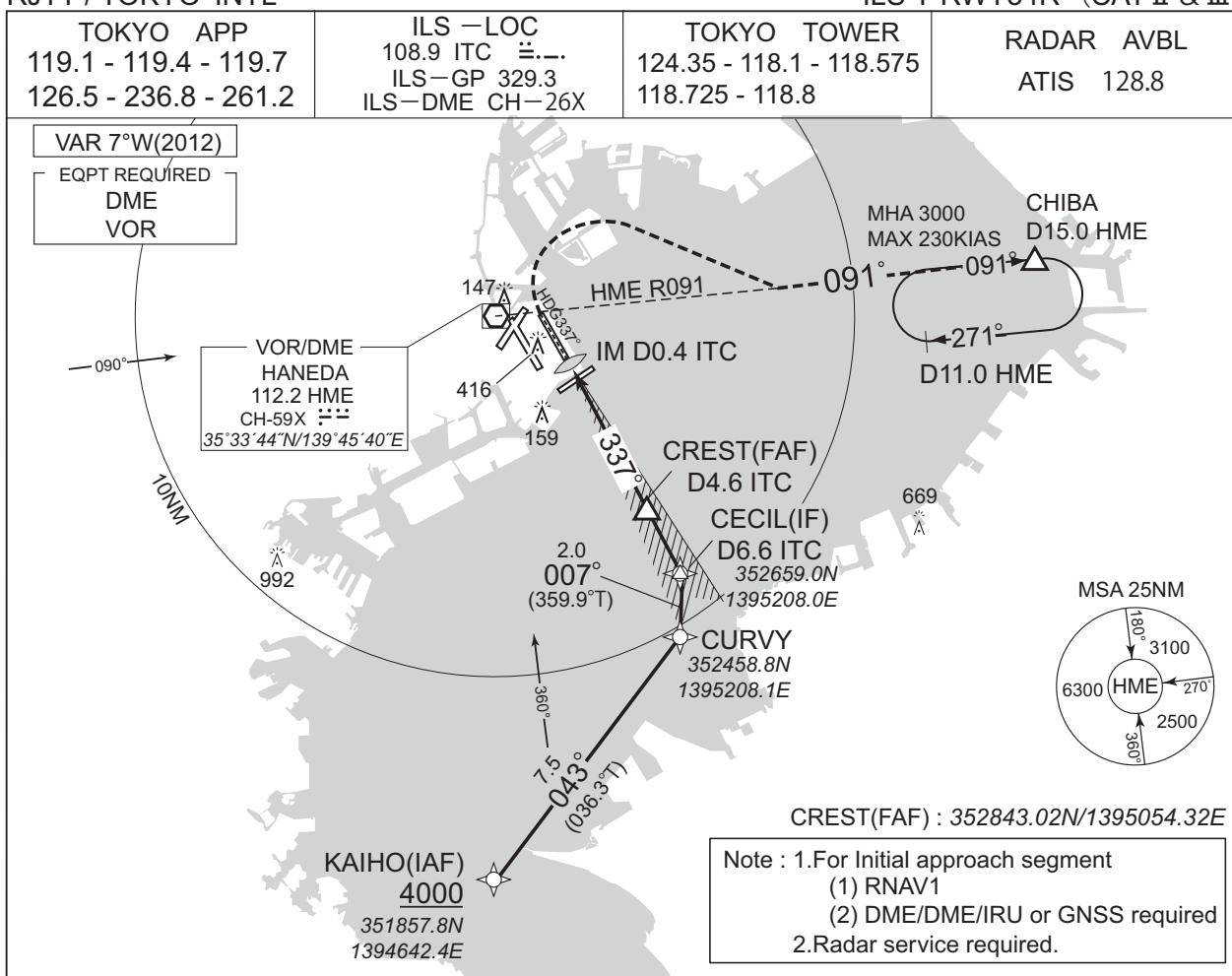
LOC Z RWY34R



INSTRUMENT APPROACH CHART

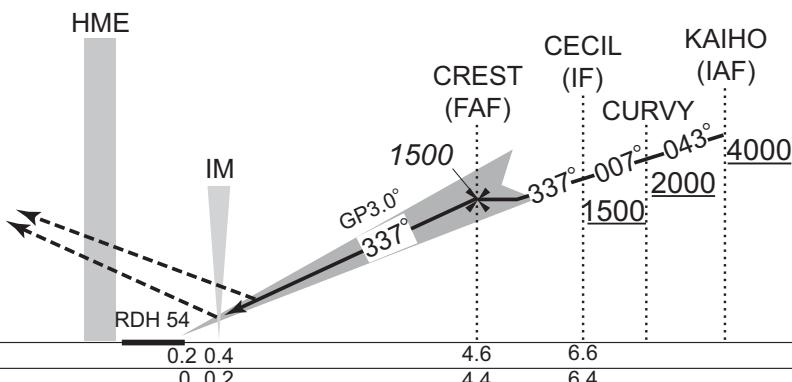
RJTT / TOKYO INTL

ILS Y RWY34R (CAT II & III)



MISSED APPROACH

Climb on HDG337° to 800FT, turn right climb to 3000FT via HME R091 to CHIBA and hold. Contact TOKYO APP.

DME to ITC
NM to THR0.2 0.4
0 0.2

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 20

AD elev. 21

CHANGE: MINIMA(CAT IIIA, IIIB → CAT III).

CAT	CAT III	CAT II			CAT I		CIRCLING	
	RVR	DA(H)	RA	RVR	DA(H)	RVR/CMV	MDA(H)	VIS
A	100	120(100)	100	300	220(200)	550	730(709)	1600
B								2400
C								3200
D								

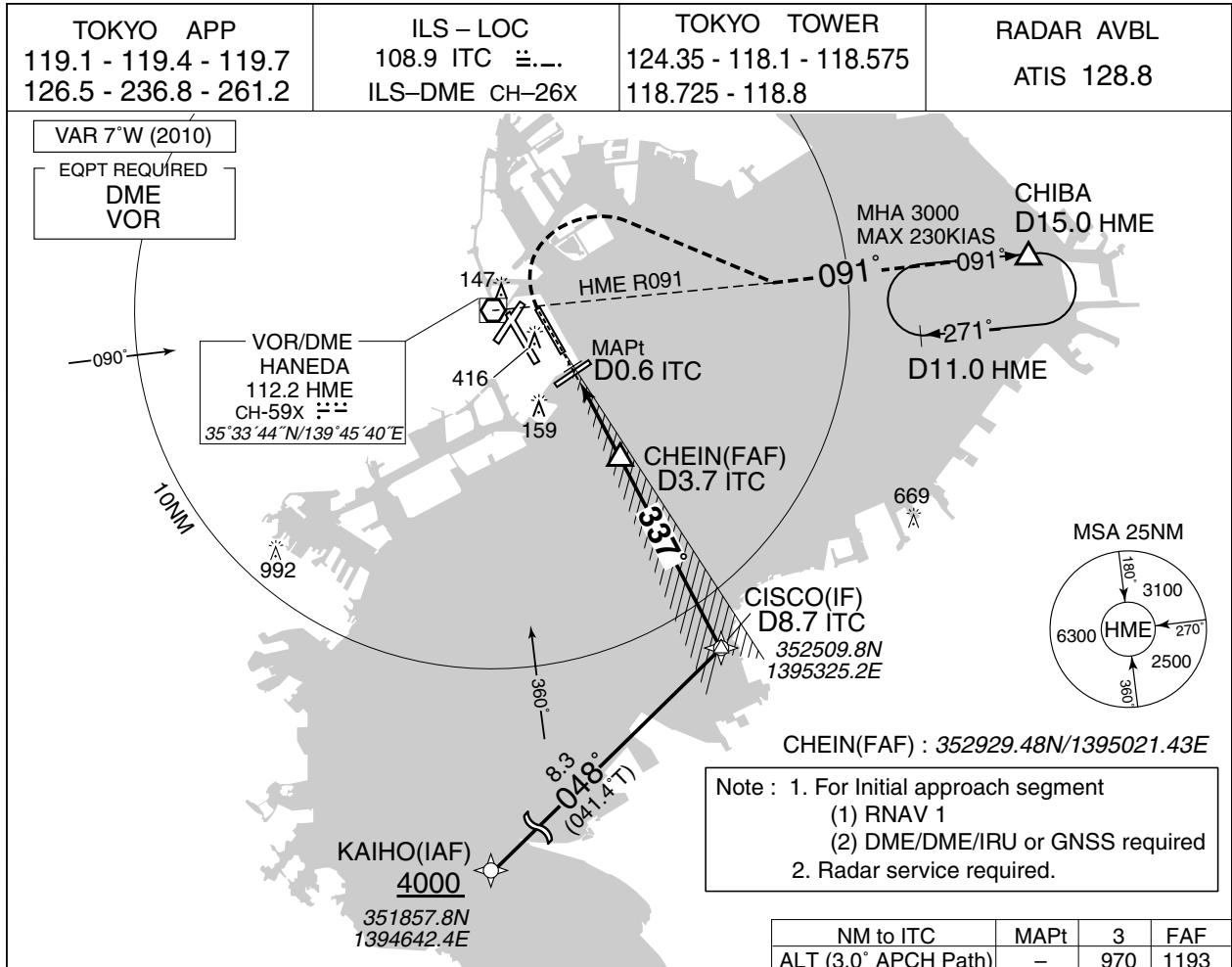
MINIMA with Missed APCH climb gradient of 2.5% are not established.

Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC Y RWY34R

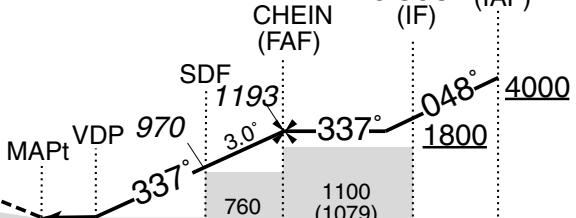


MISSSED APPROACH

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.

HME

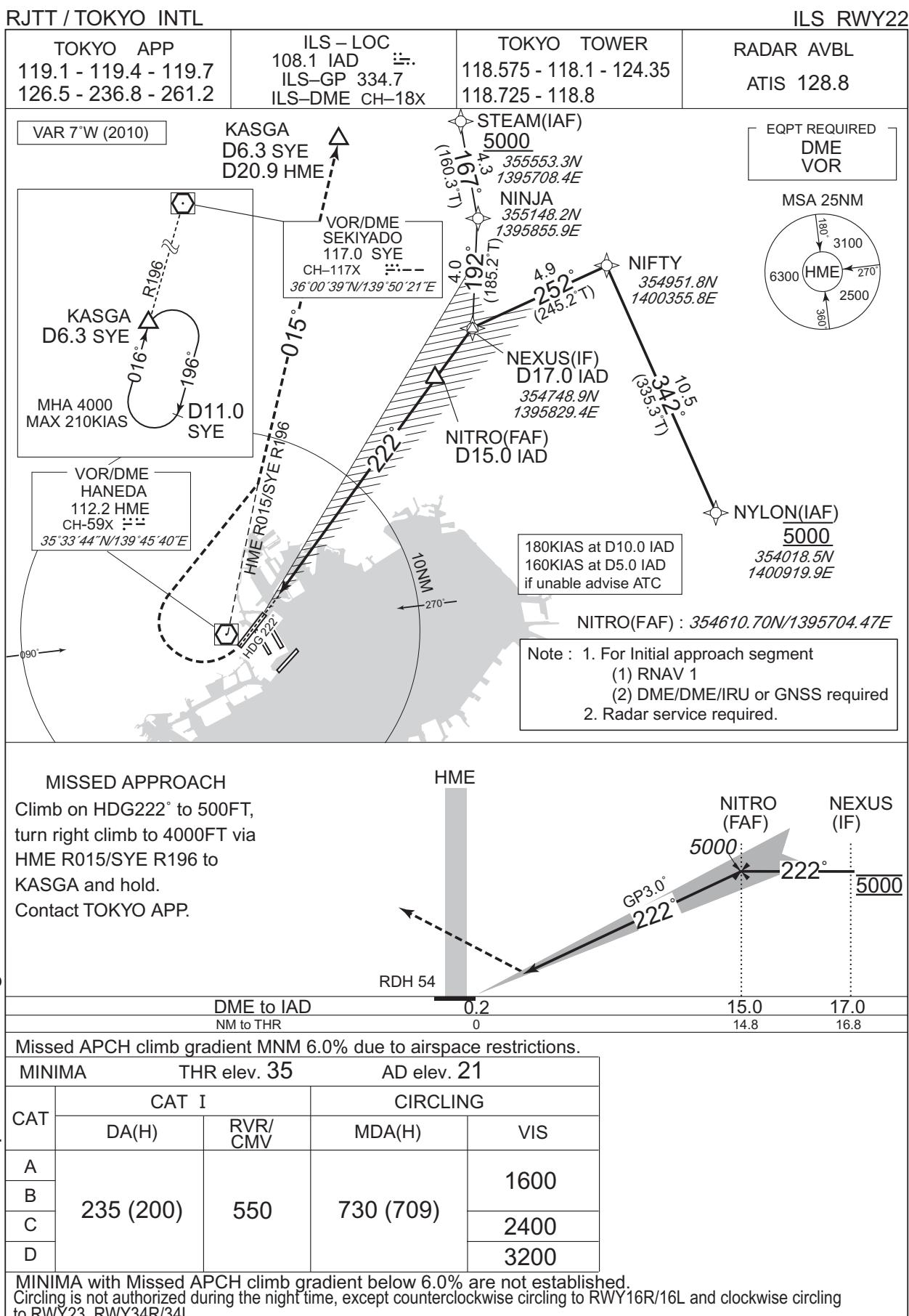


DME to ITC	0.2	0.6	2.1	3.0	3.7	8.7
NM to THR	0	0.5	1.9	2.8	3.5	8.5

MINIMA		THR elev. 20	AD elev. 21	
CAT	LOC	CIRCLING		
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A		1200		
B		1400		1600
C	700 (679)		730 (709)	2400
D		1800		3200

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

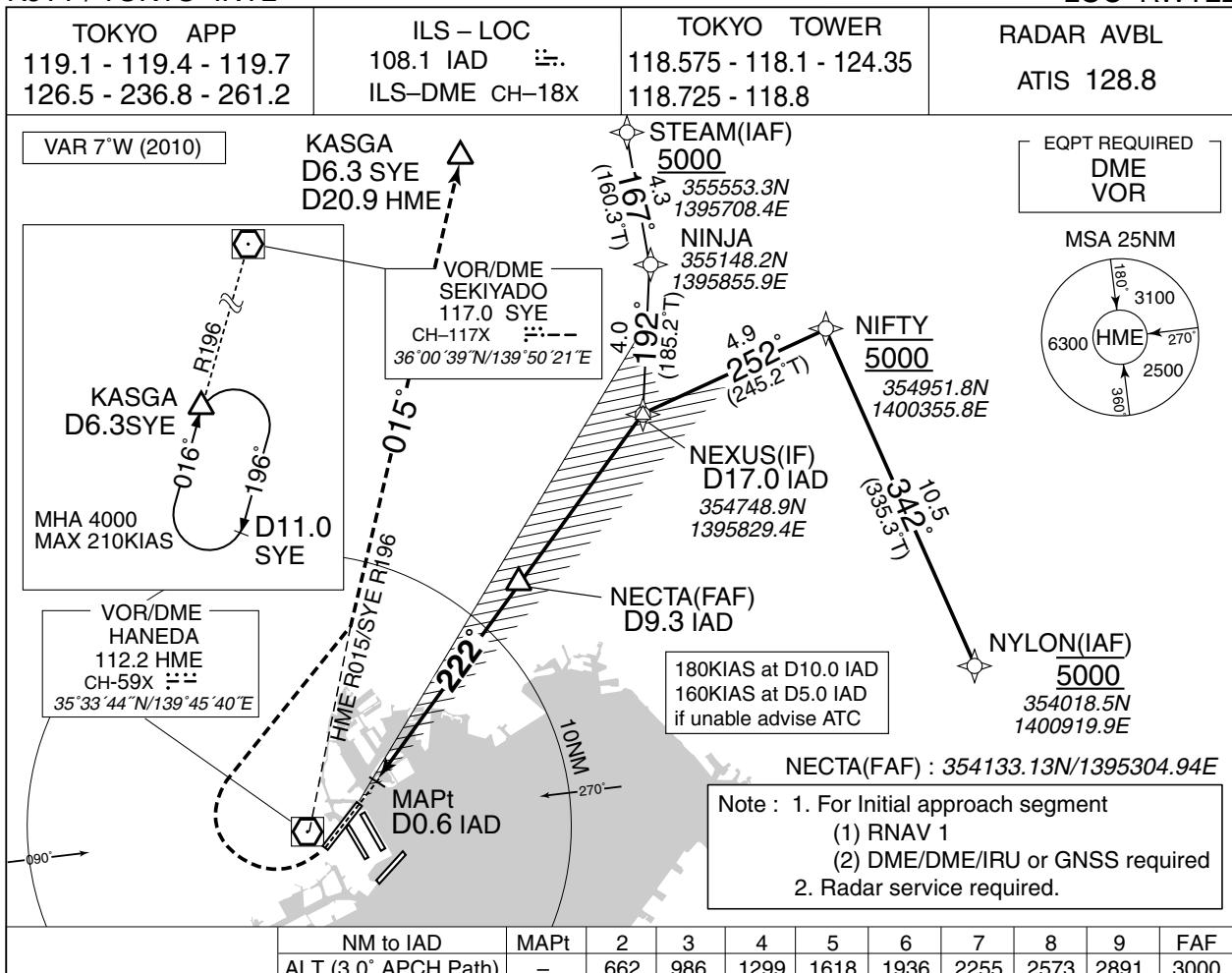
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

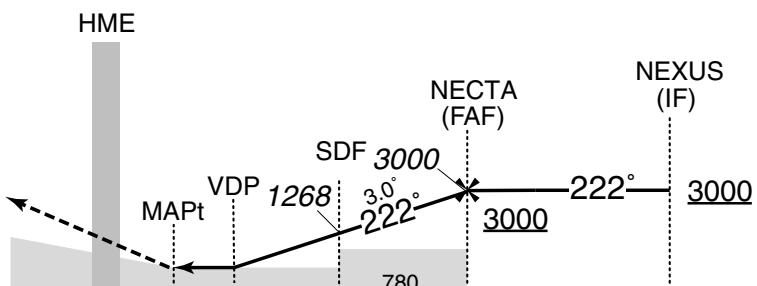
LOC RWY22



MISSED 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.



DME to IAD
NM to THR

0.2	0.6	1.9	3.9	9.3	17.0
0	0.5	1.7	3.7	9.1	16.8

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			

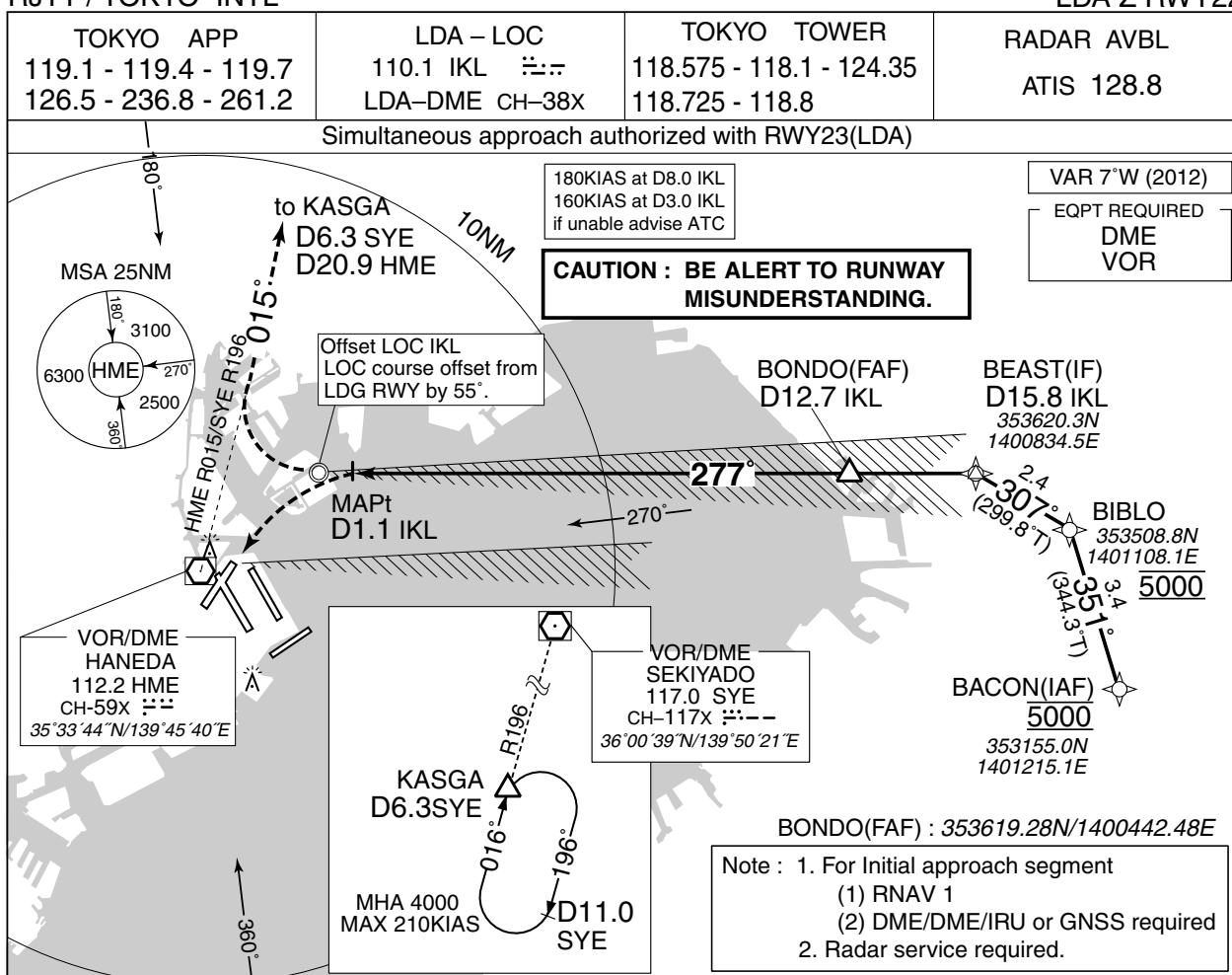
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

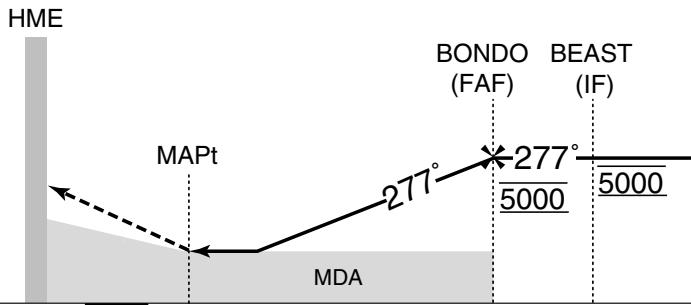
LDA Z RWY22



MISSSED APPROACH

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

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.0%

MINIMA	THR elev. 35	AD elev. 21
CAT	MDA(H)	VIS
A		
B		
C	1000 (979)	6000
D		

**Do Not turn left
until D1.1 IKL**

**SO AS NOT TO MISUNDERSTAND
THE RUNWAY**

MINIMA with Missed APCH climb gradient of 2.5% are not established.
MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

INSTRUMENT APPROACH CHART

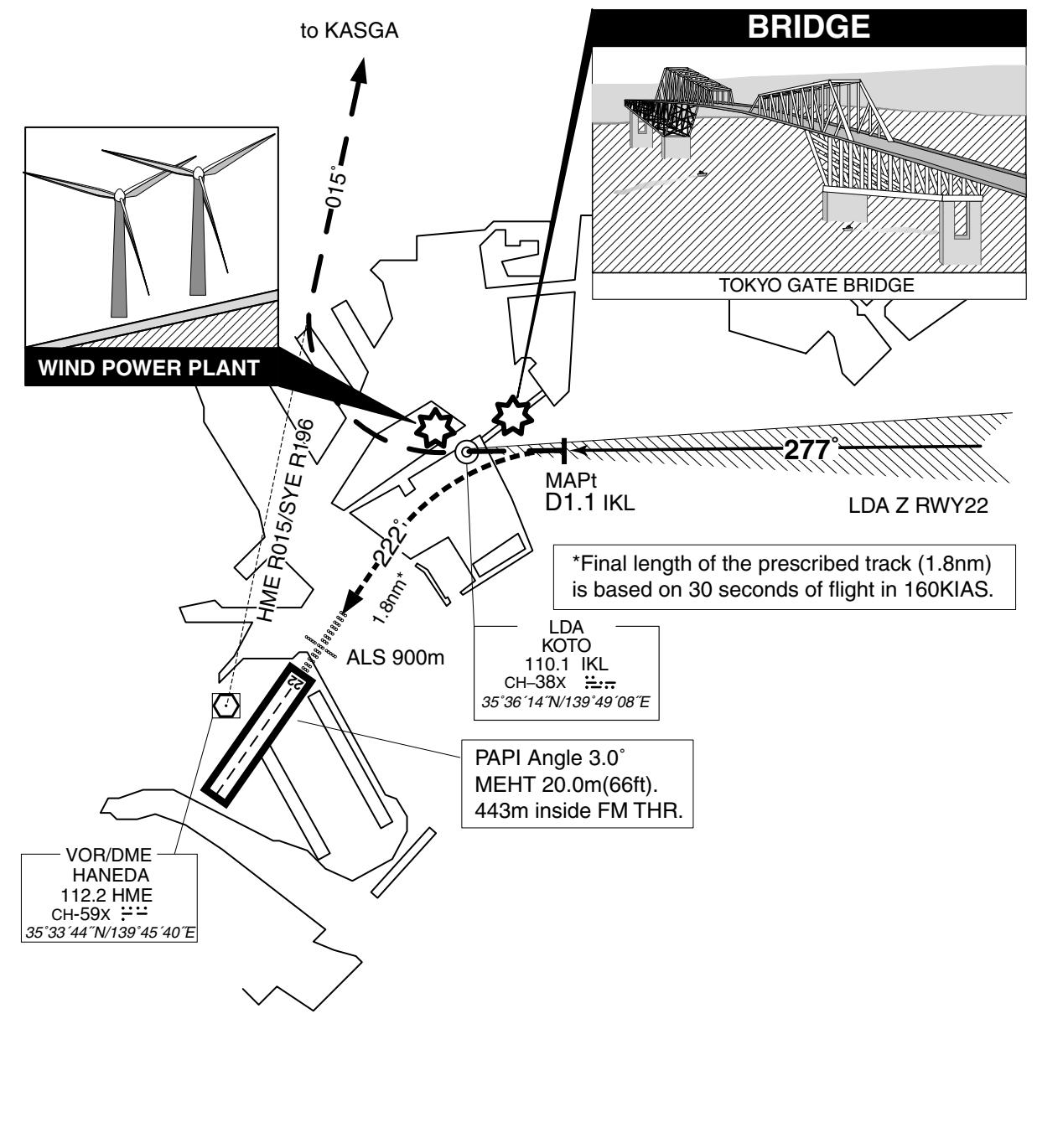
RJTT / TOKYO INTL

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.

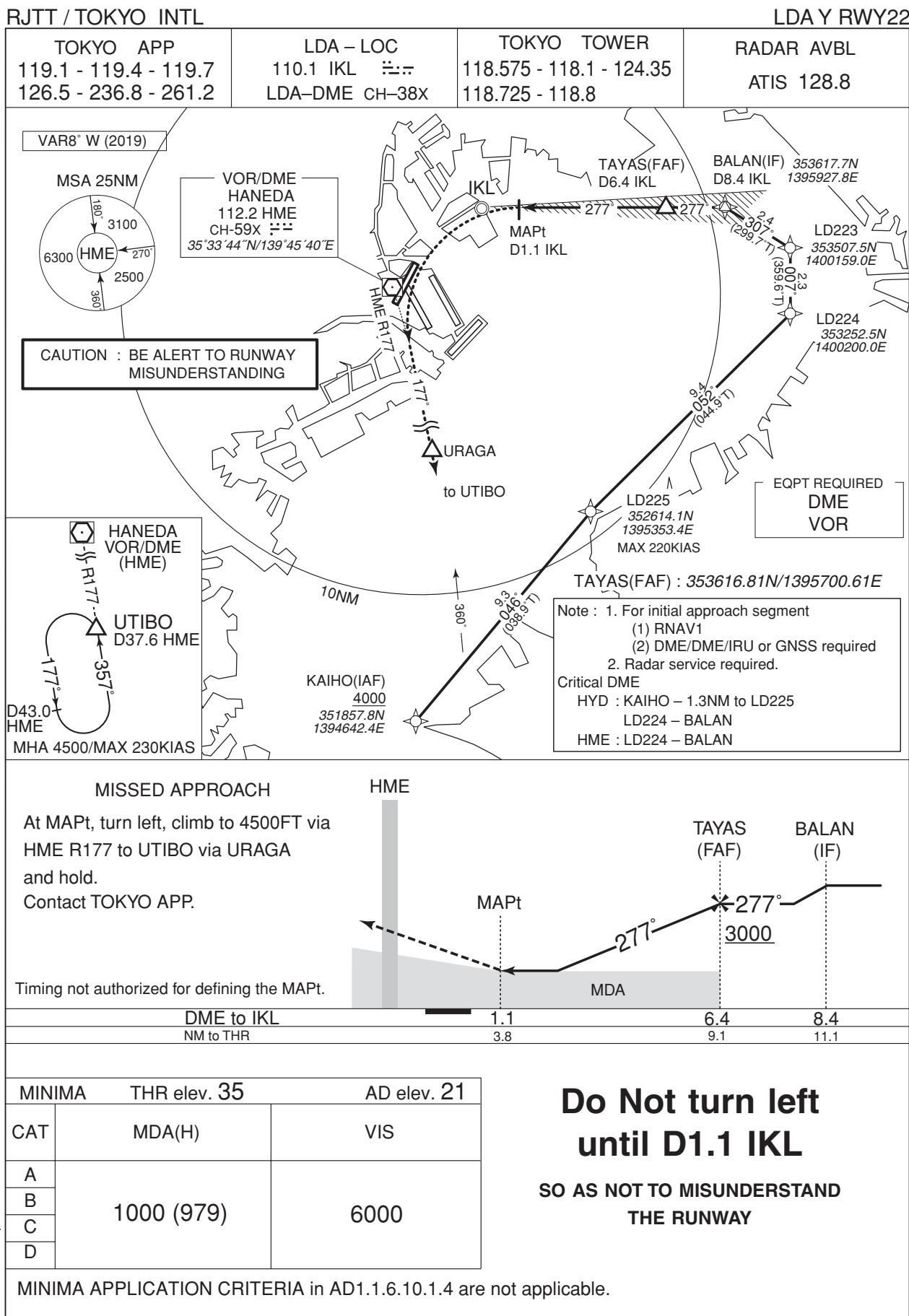
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

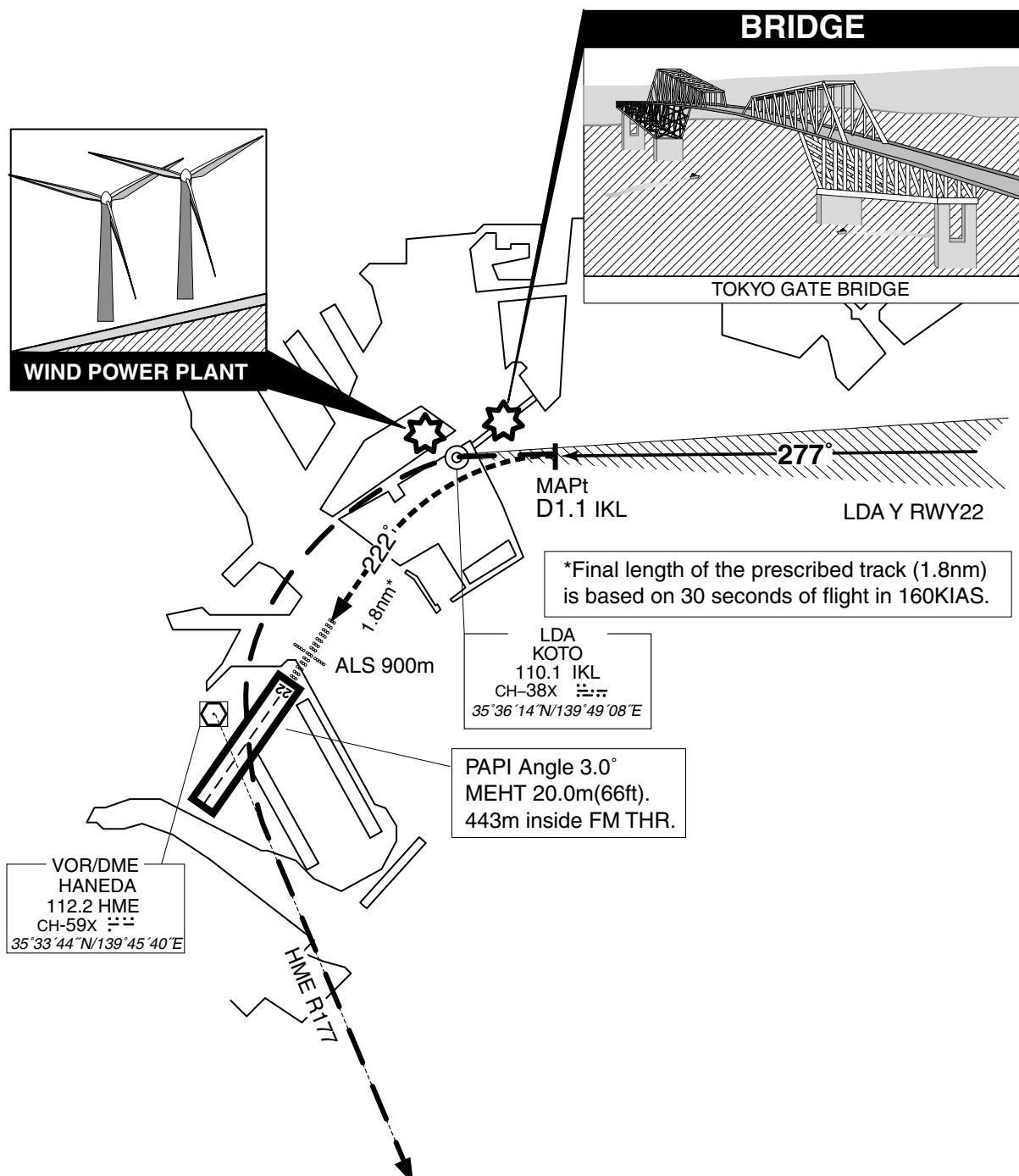
RJTT / TOKYO INTL

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.

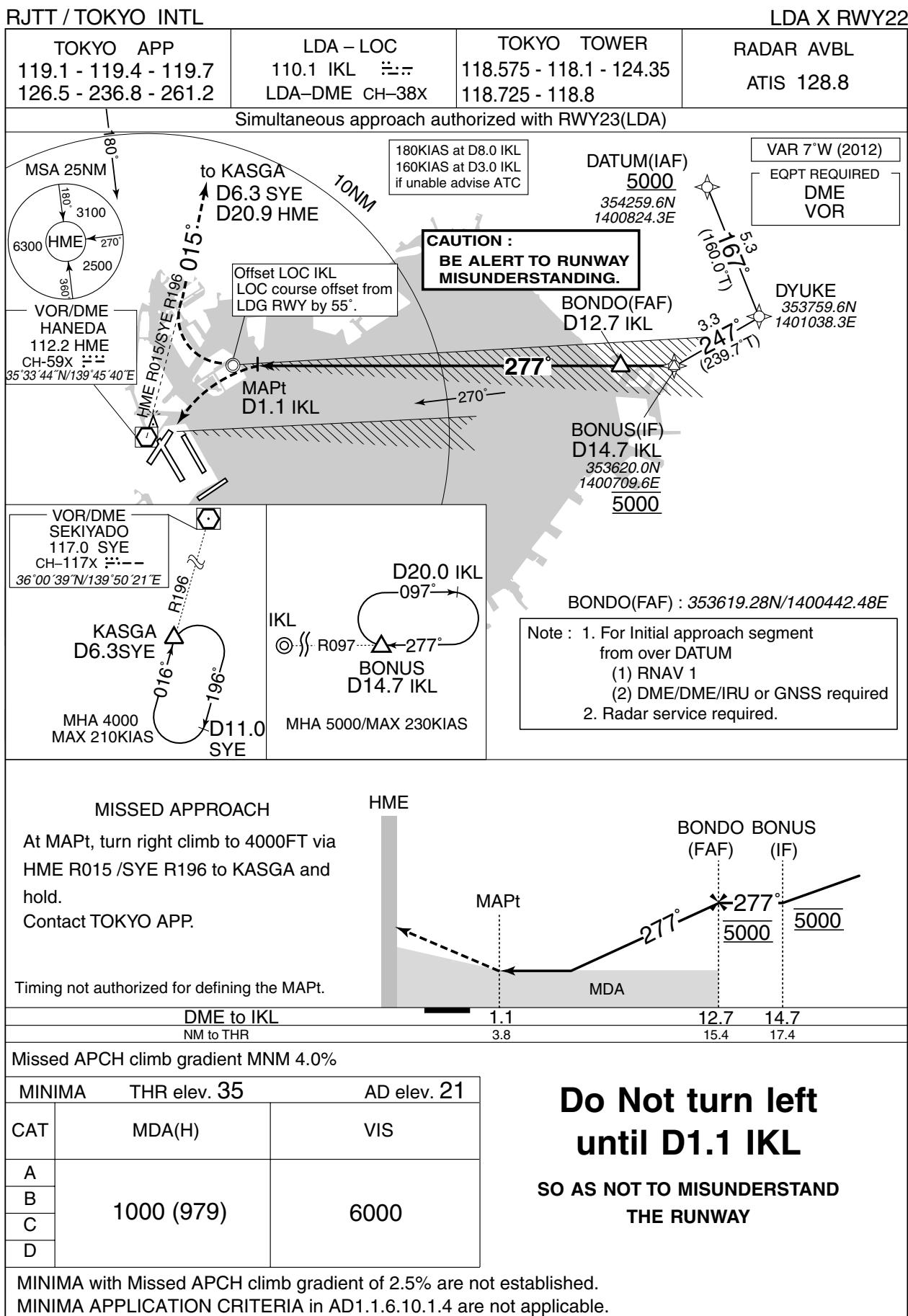
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

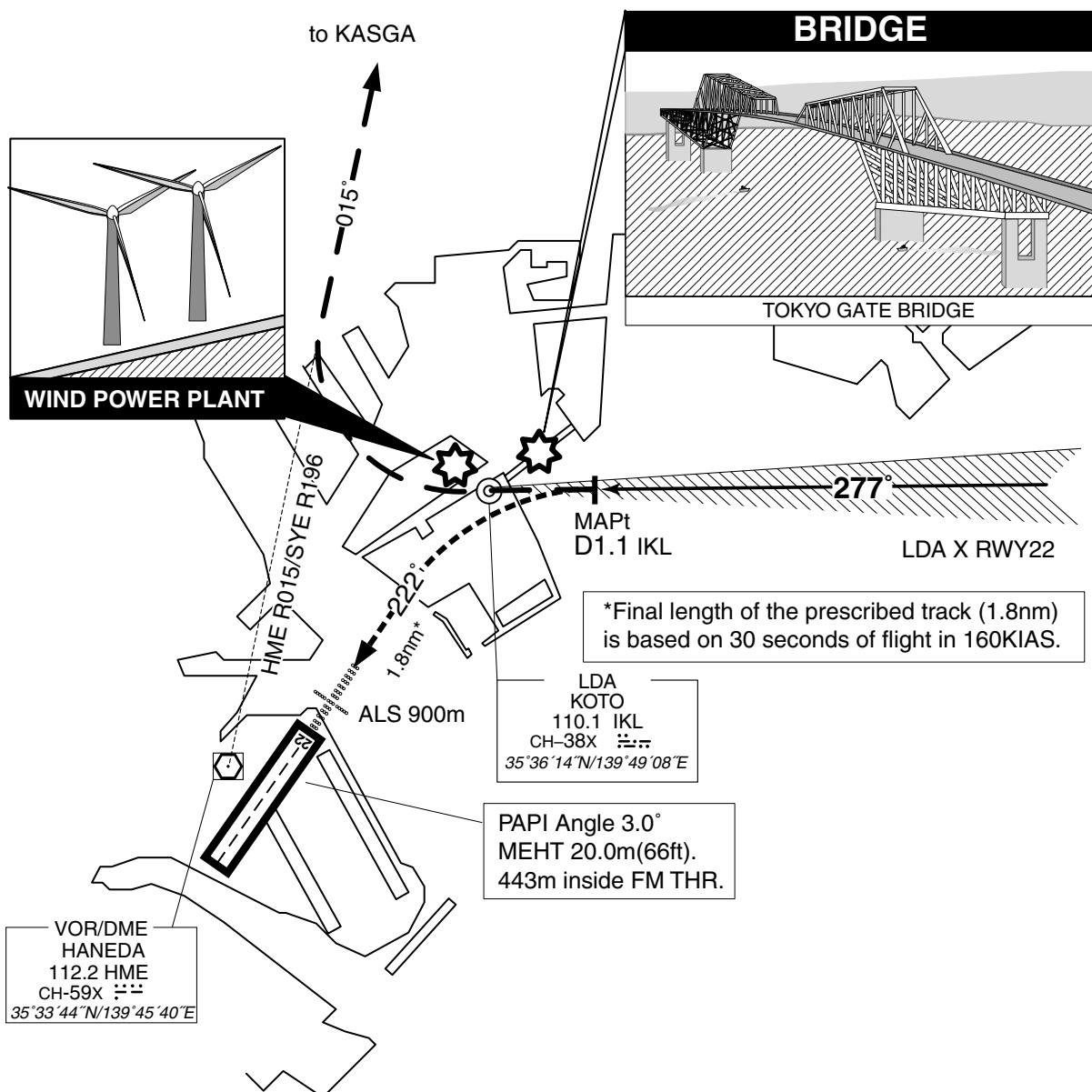
RJTT / TOKYO INTL

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.



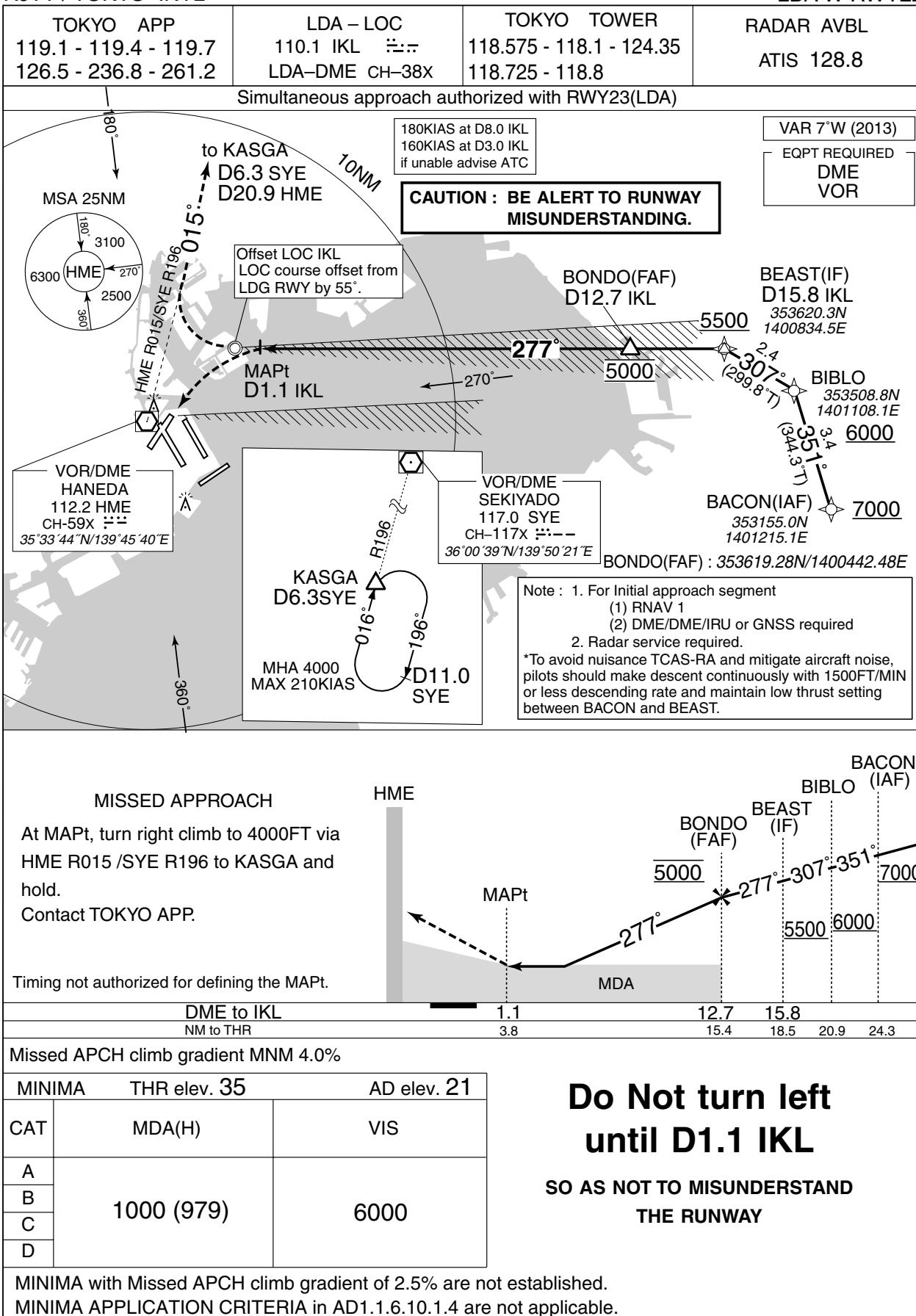
In case of GO AROUND, pilot should report ATC as soon as practicable.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY22



INSTRUMENT APPROACH CHART

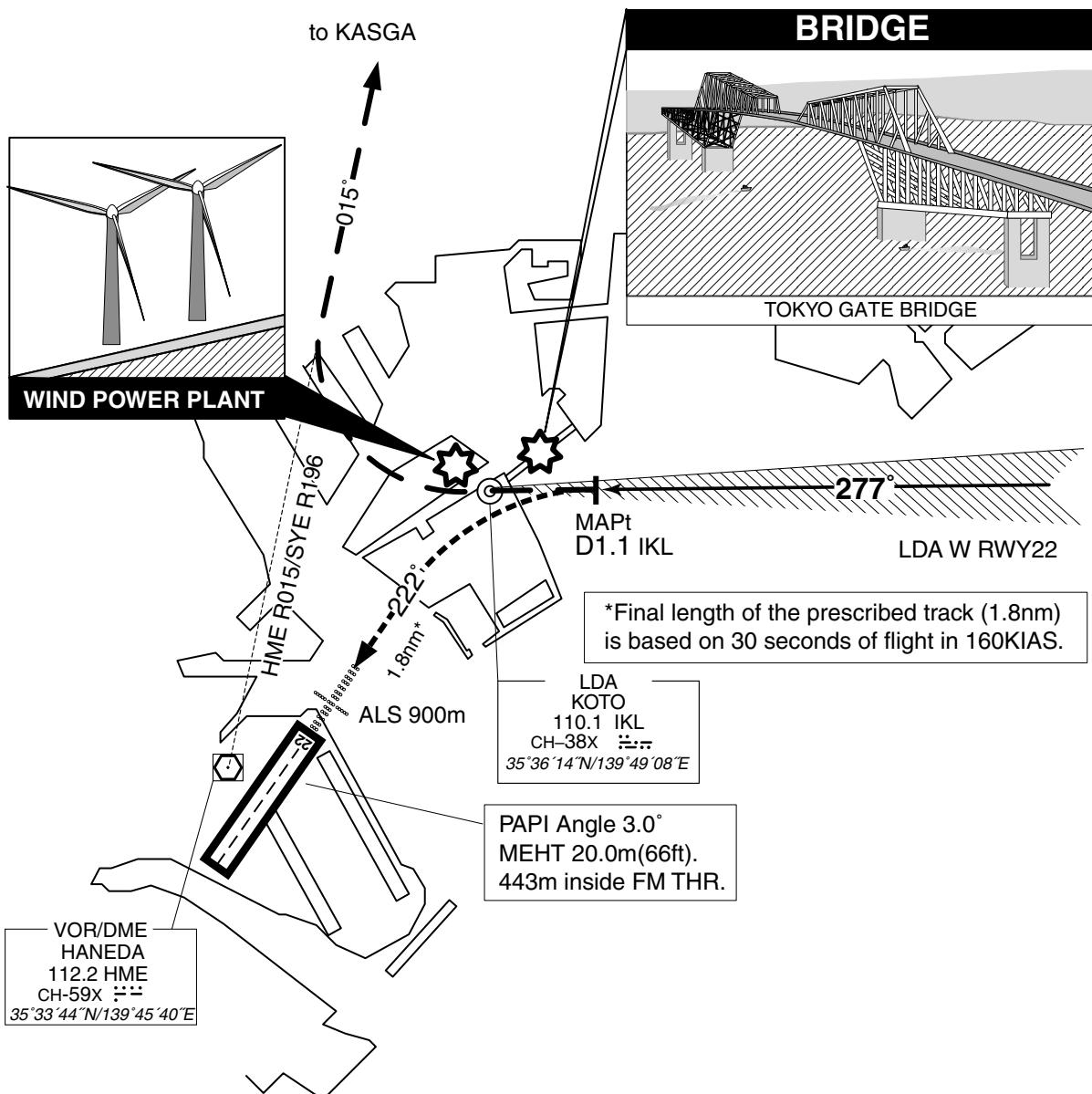
RJTT / TOKYO INTL

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.

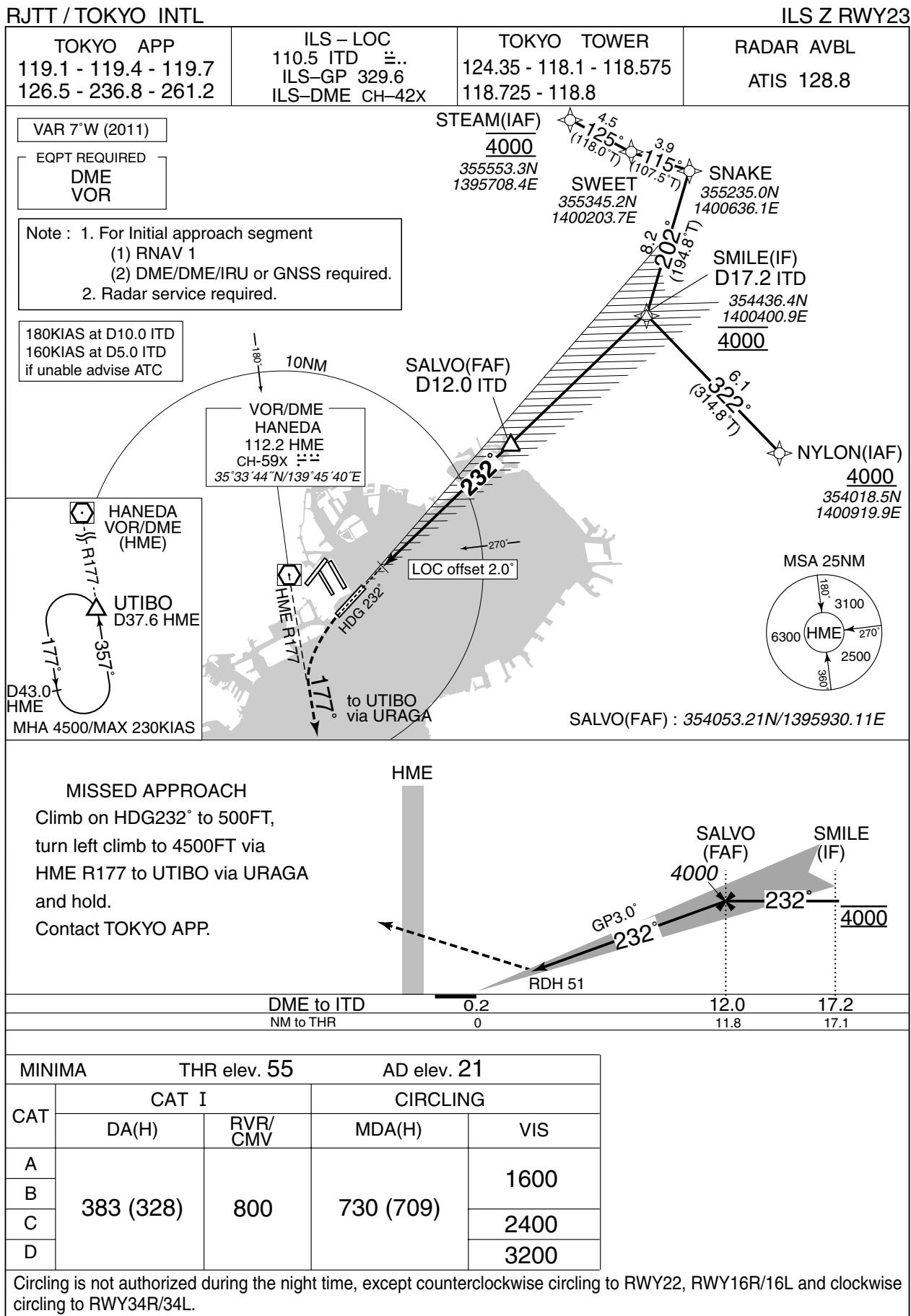
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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.

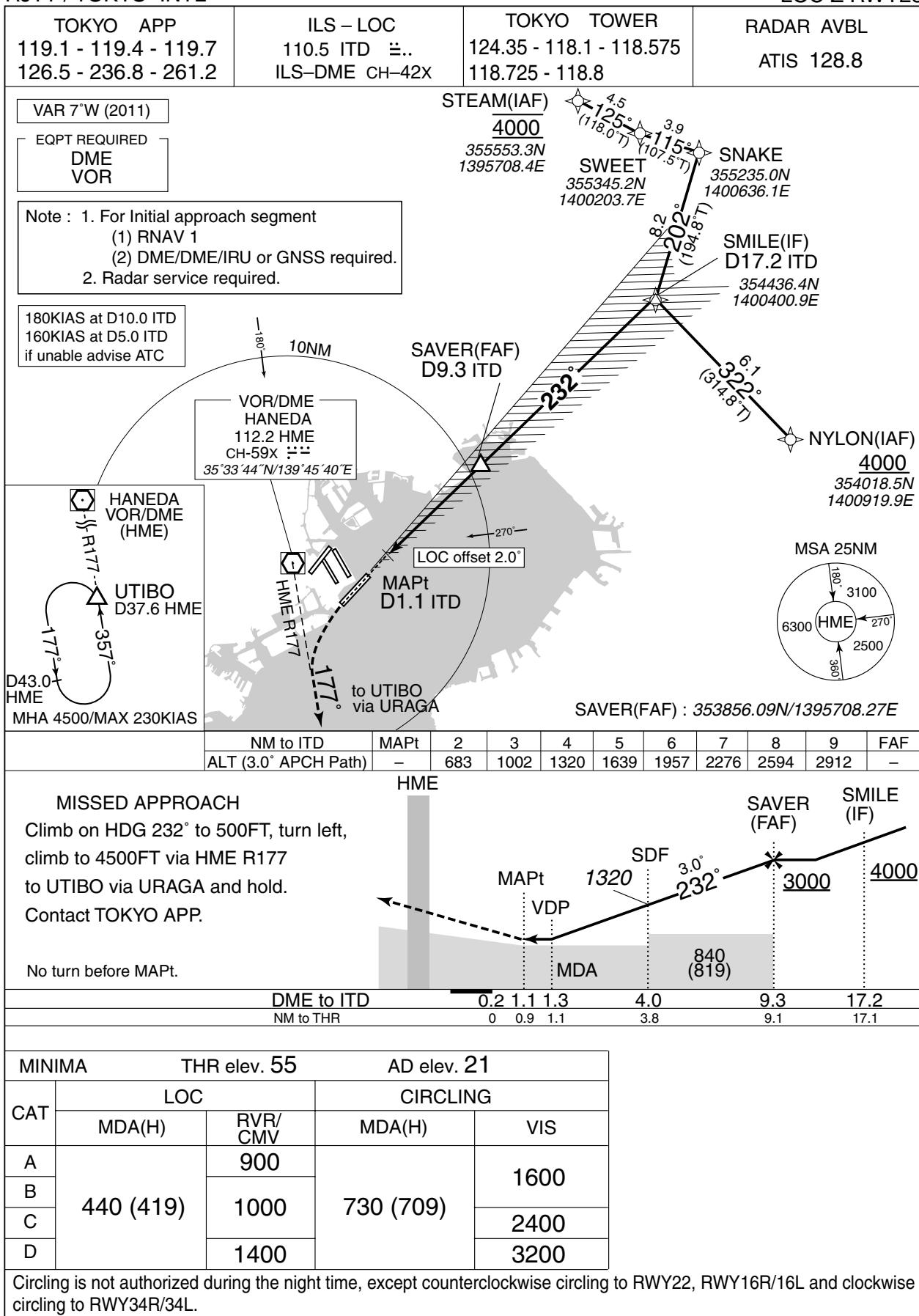
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

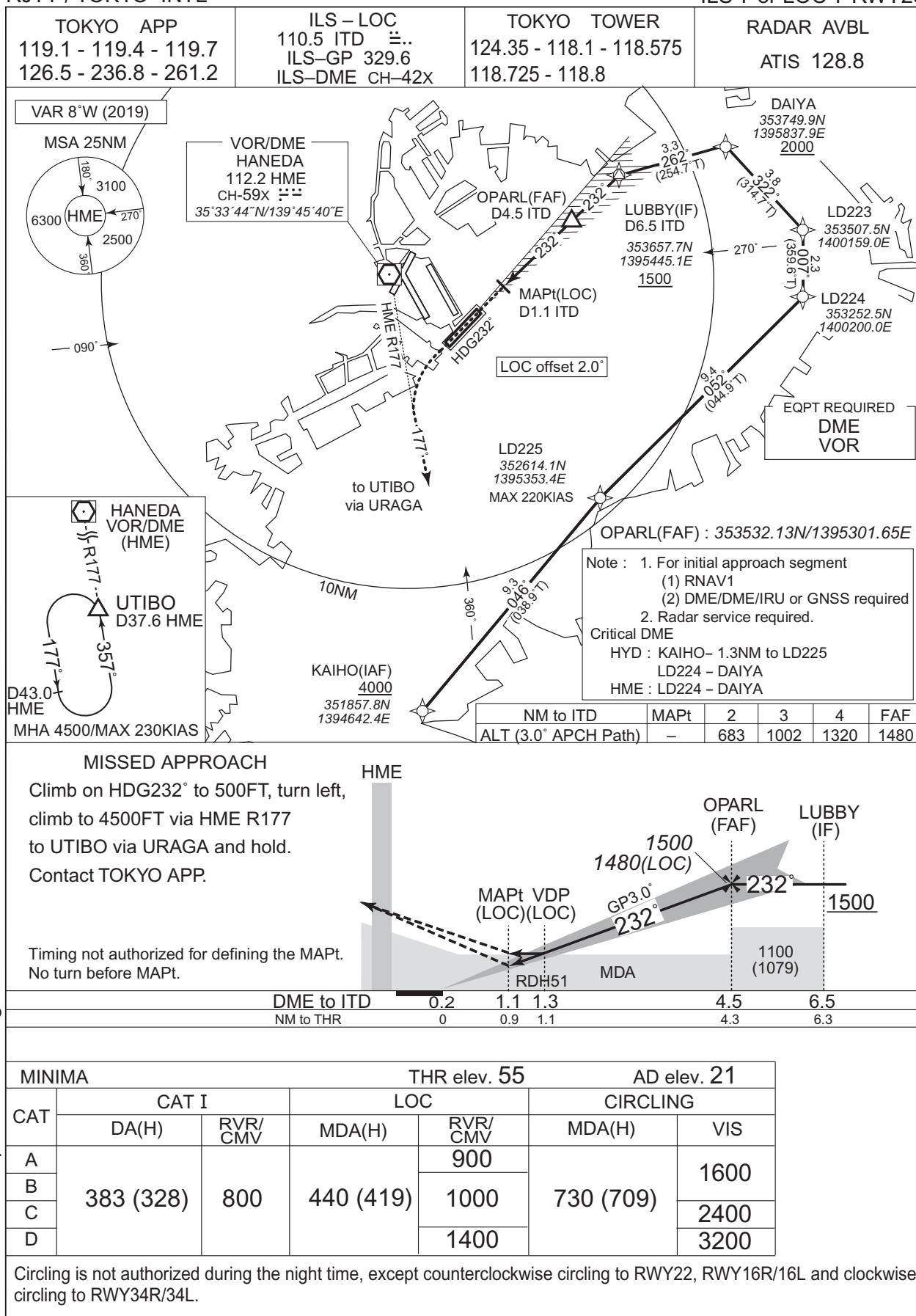
LOC Z RWY23



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

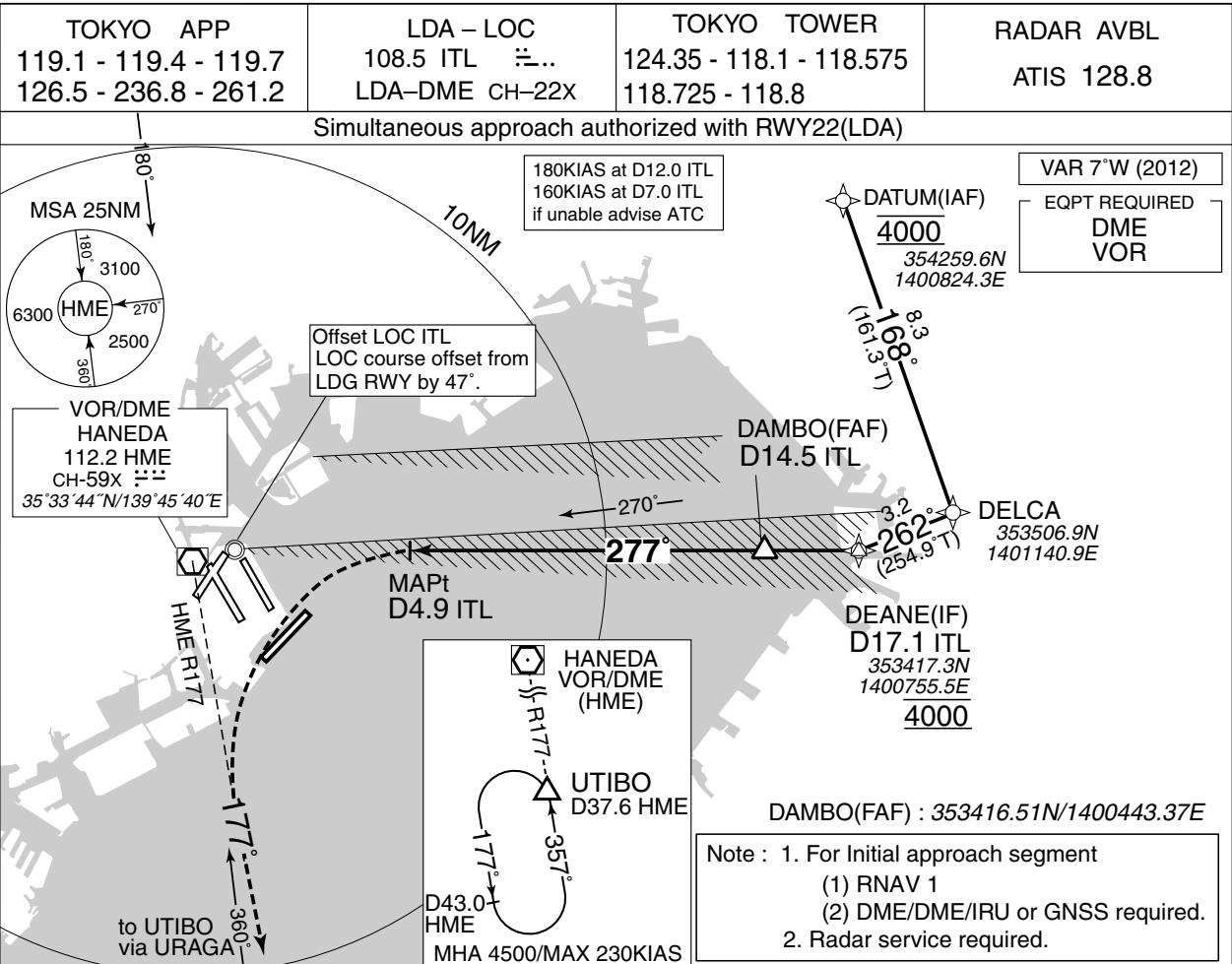
ILS Y or LOC Y RWY23



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

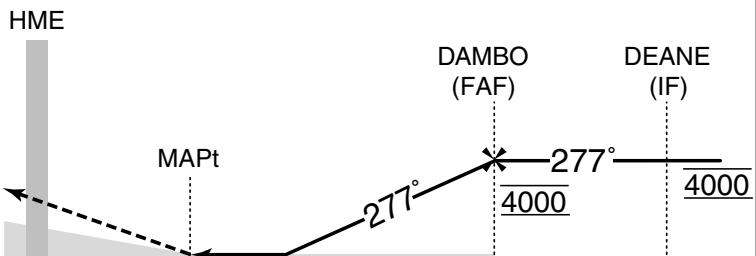
LDA Z RWY23



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.



DME to ITL

NM to THR

4.9

3.4

14.5

13.0

17.1

15.6

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.

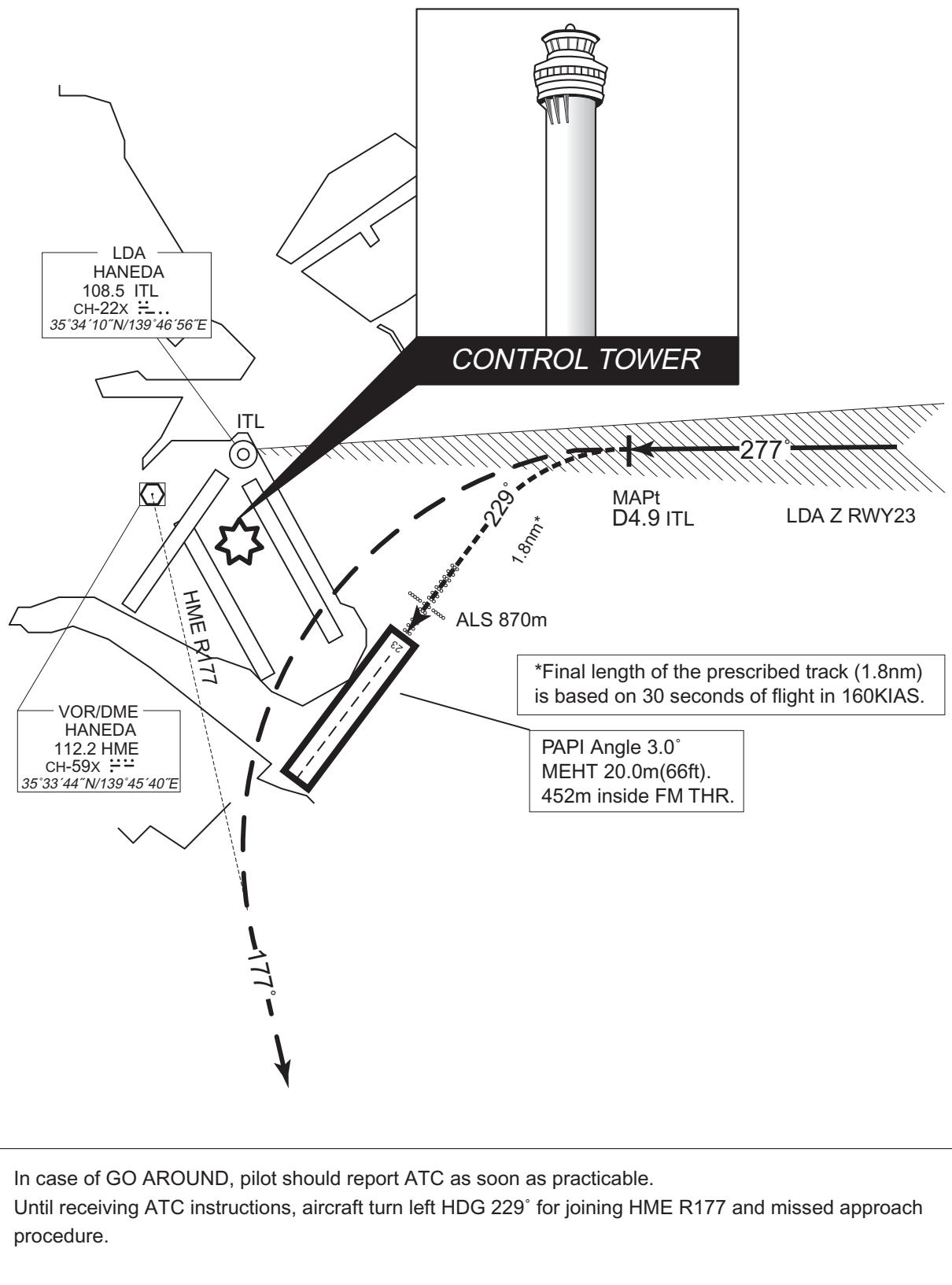
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY23

Visual Prescribed Track for LDA Z RWY23

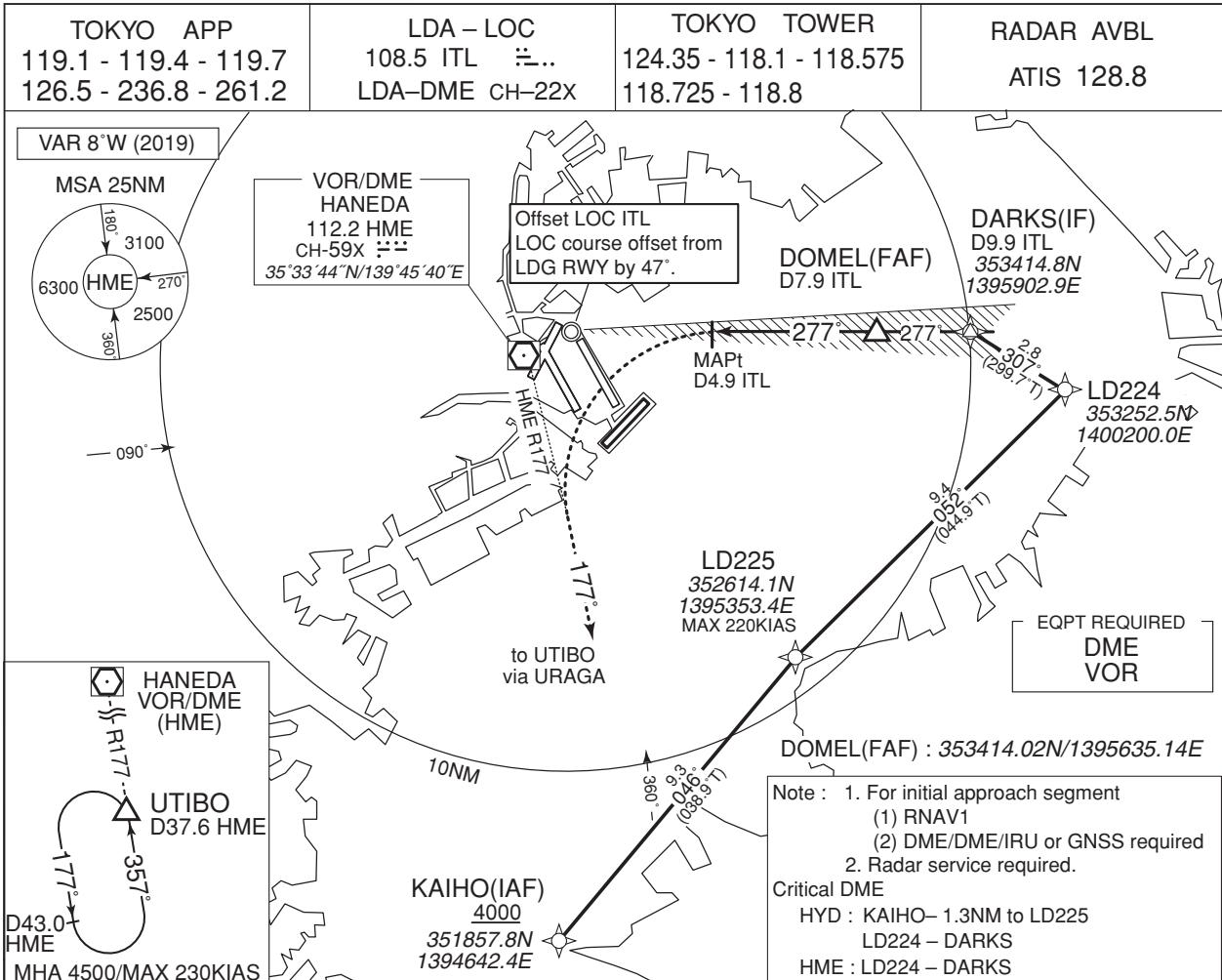
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



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.

HME

DOMEL (FAF) DARKS (IF)

Timing not authorized for defining the MAPt.

MAPt

MDA

4.9

7.9

9.9

1800

DME to ITL

NM to THR

3.4

6.4

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.

CHANGE : Update

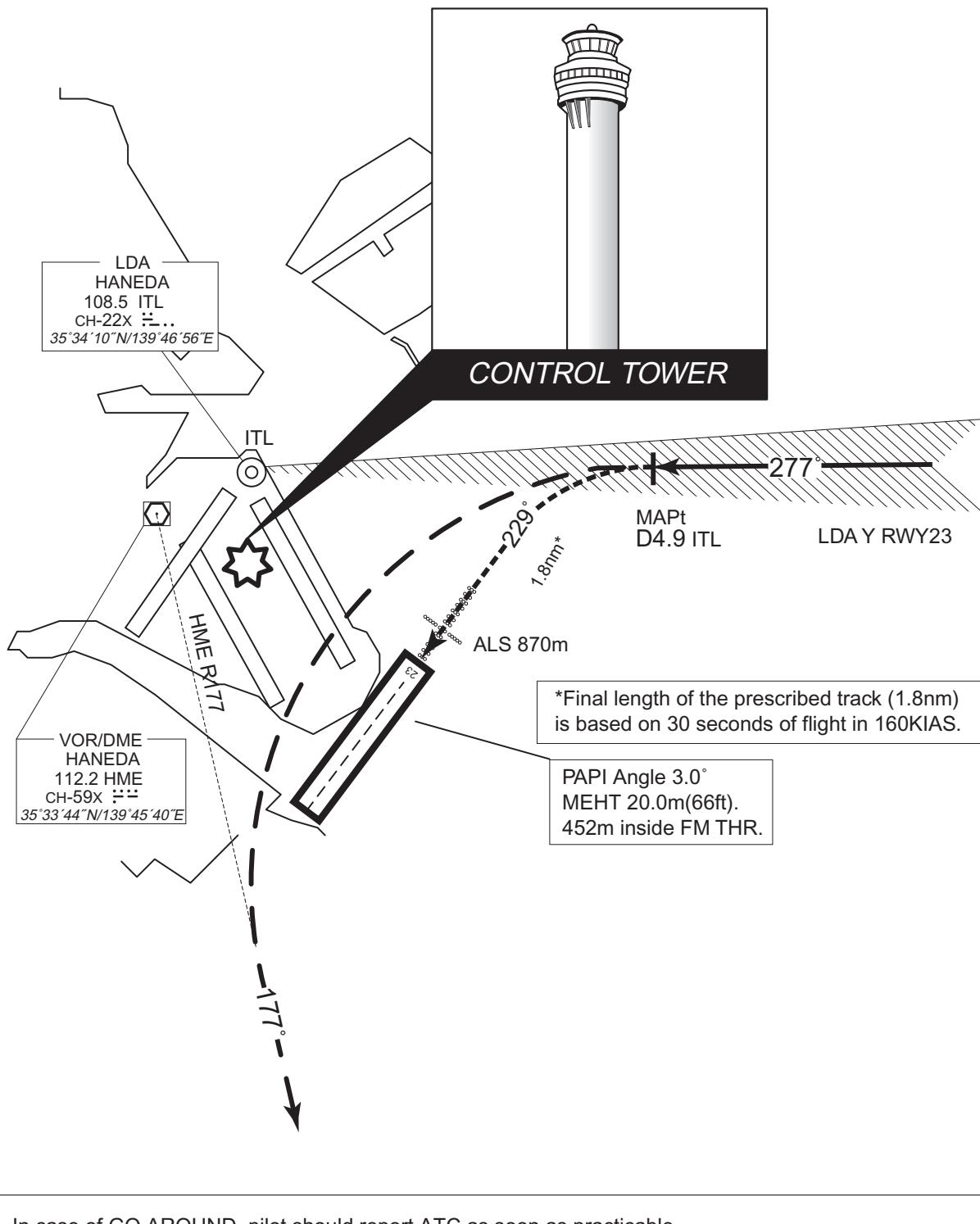
INSTRUMENT APPROACH CHART

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.



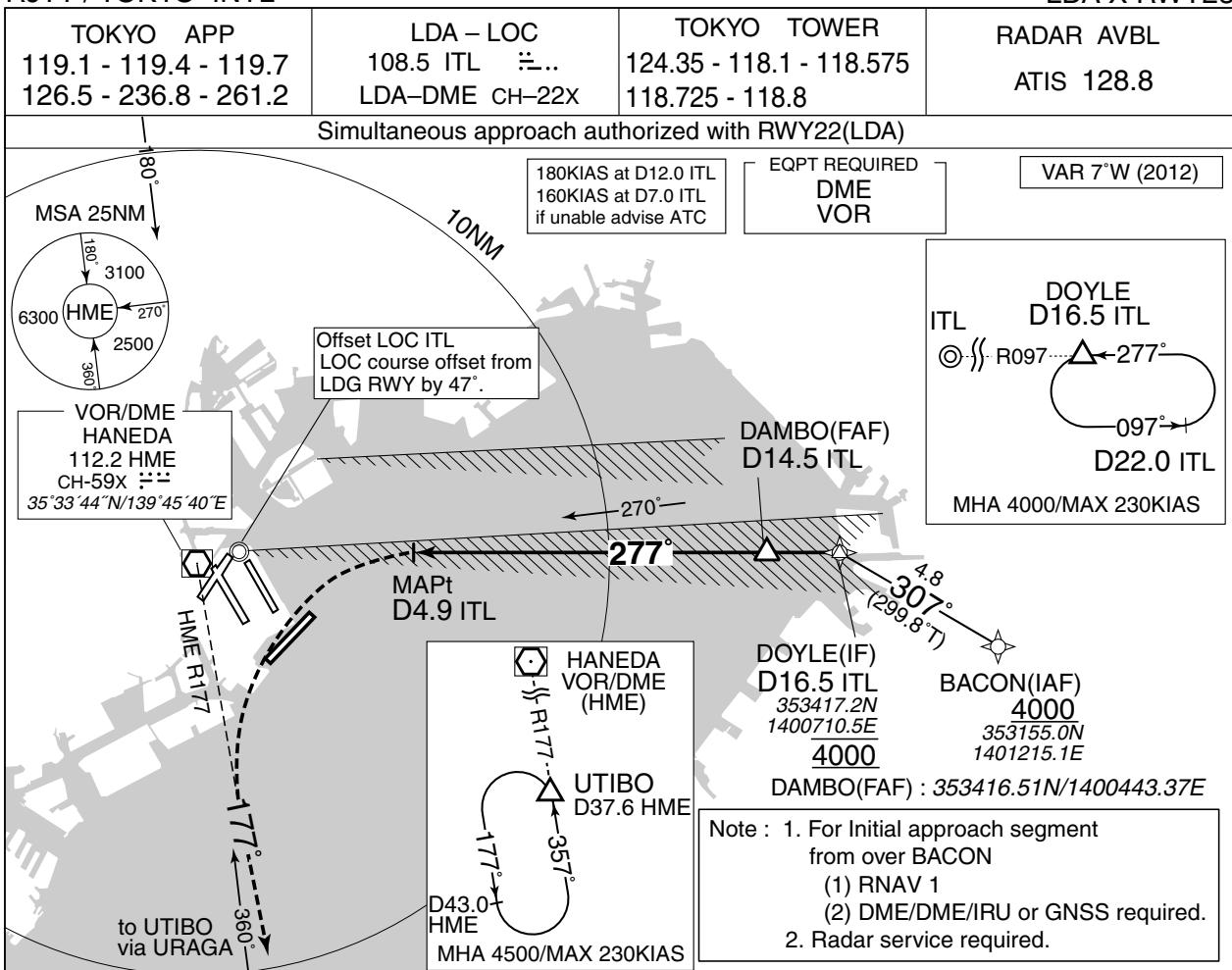
In case of GO AROUND, pilot should report ATC as soon as practicable.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

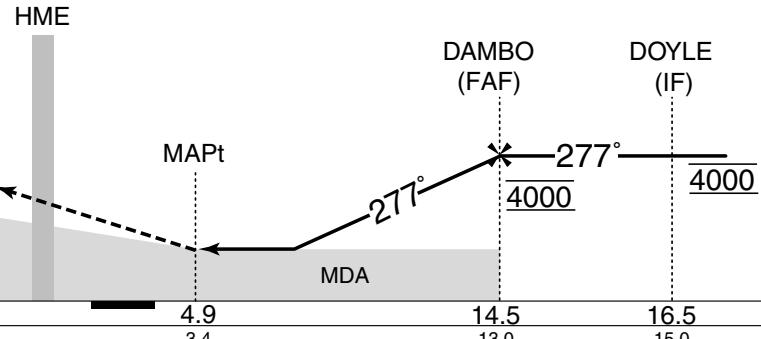
LDA X RWY23



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.



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

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

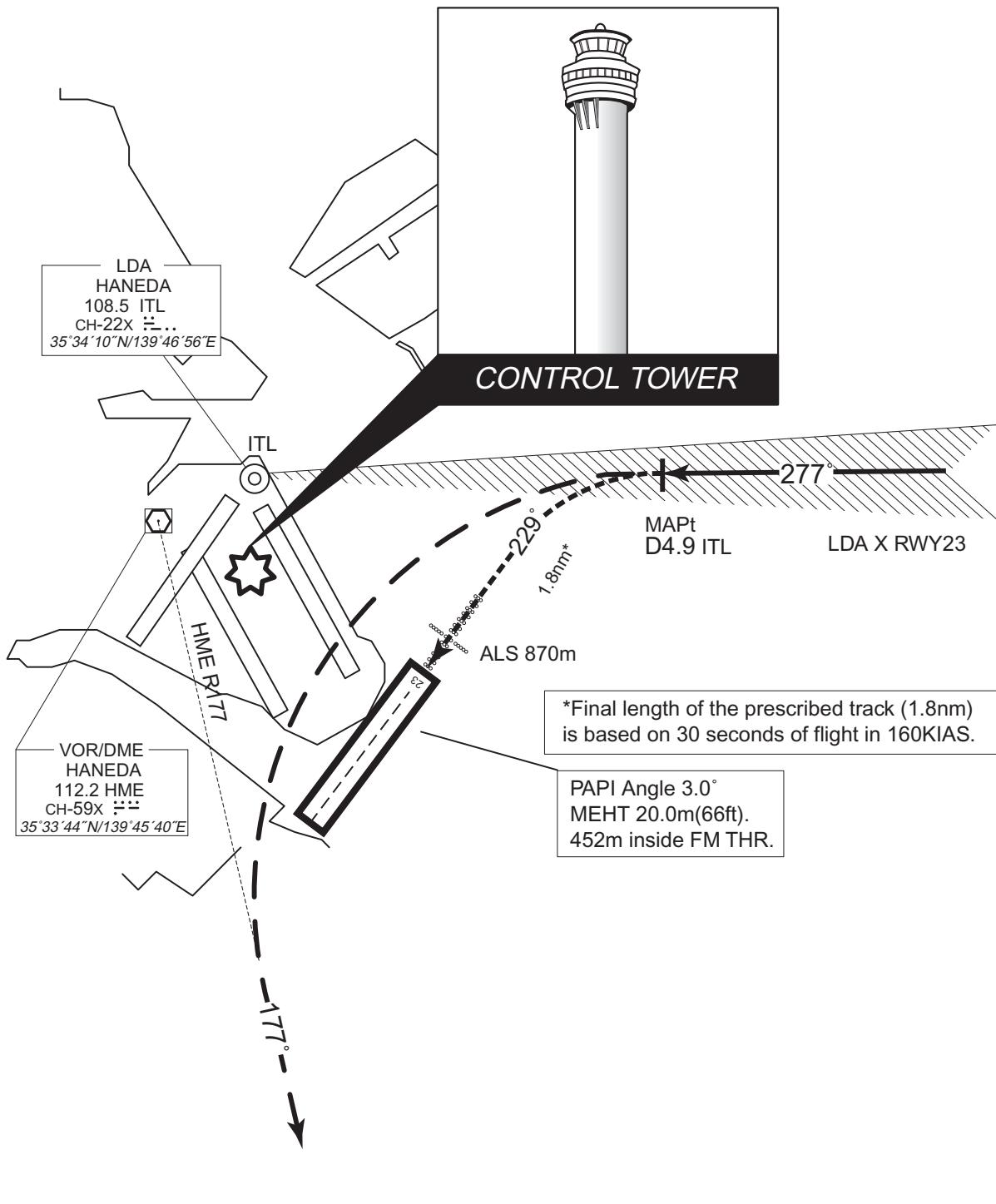
INSTRUMENT APPROACH CHART

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.



CHANGE : Correction of misdescription (ITL COORD).

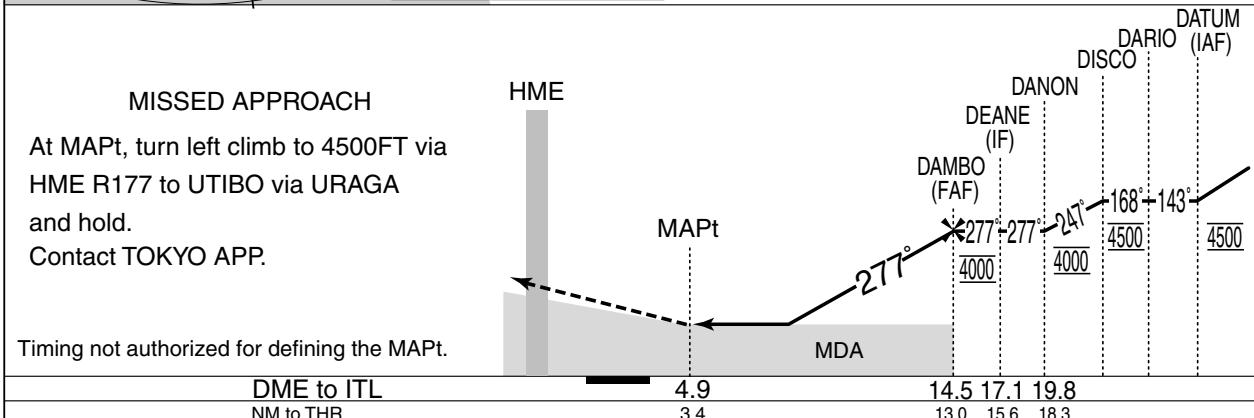
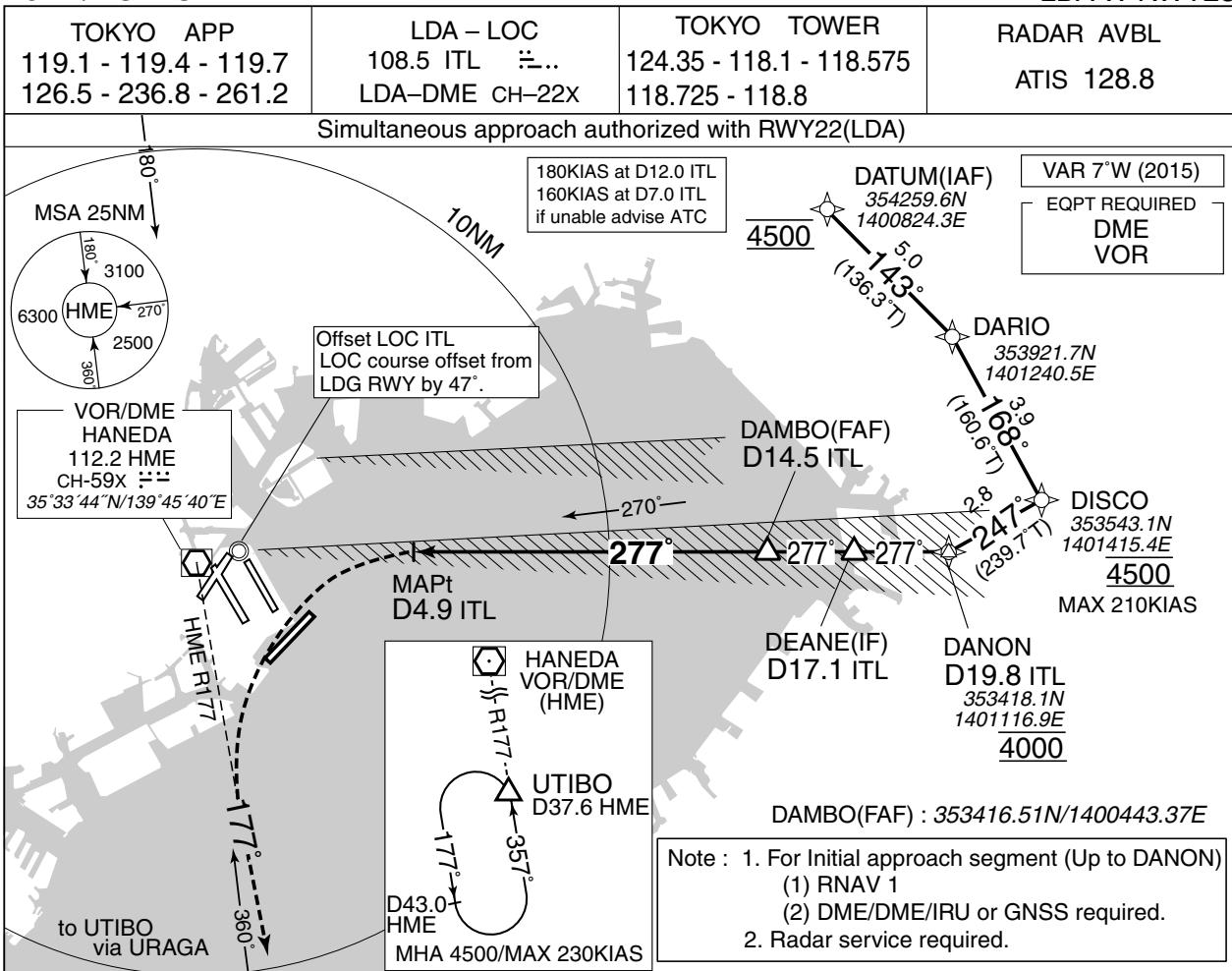
In case of GO AROUND, pilot should report ATC as soon as practicable.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23



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

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

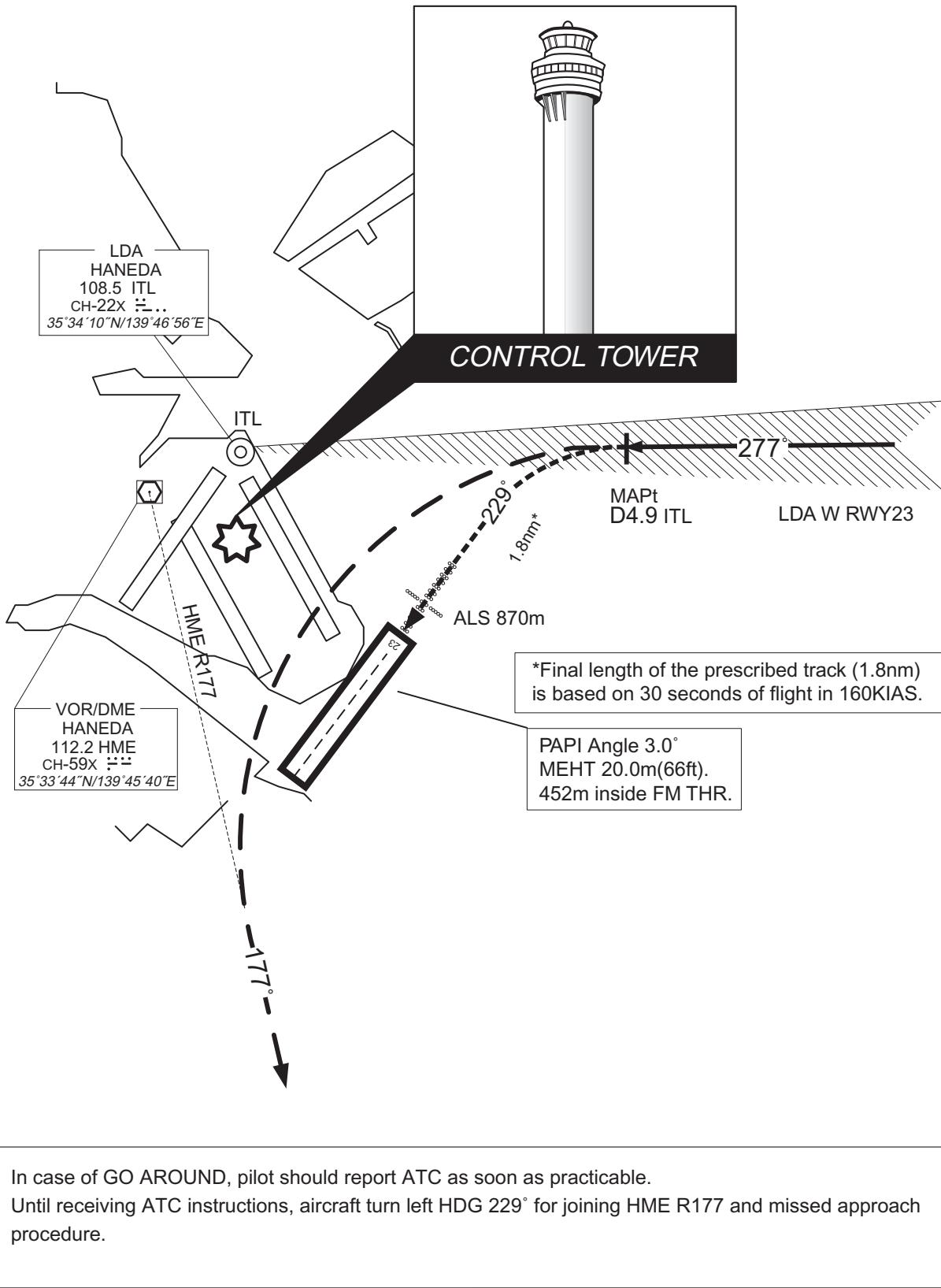
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

Visual Prescribed Track for LDA W RWY23

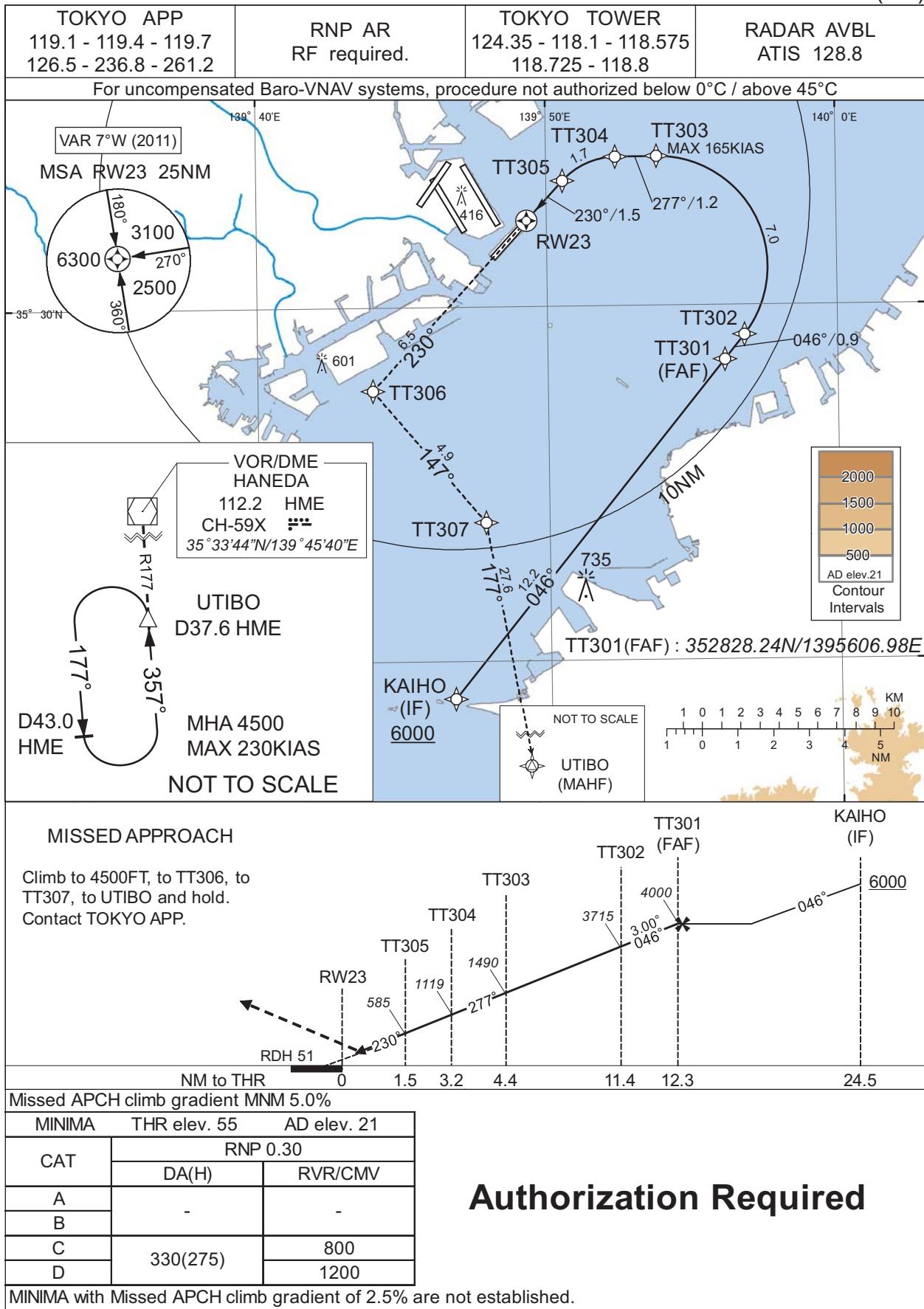
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY23(AR)



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	-	-	-7.2	-	-	+6000	-	-	-
002	TF	TT301	-	046 (038.8)	-7.2	12.2	-	4000	-	-	1.0
003	TF	TT302	-	046 (038.8)	-7.2	0.9	-	3715	-	-3.00	0.3
004	RF Center: TTRF1 r=3.10NM	TT303	-	-	-7.2	7.0	L	1490	-165	-3.00	0.3
005	TF	TT304	-	277 (269.6)	-7.2	1.2	-	1119	-	-3.00	0.3
006	RF Center: TTRF2 r=2.00NM	TT305	-	-	-7.2	1.7	L	585	-	-3.00	0.3
007	TF	RW23	Y	230 (222.5)	-7.2	1.5	-	106	-	-3.00/51	0.3
008	TF	TT306	-	230 (222.5)	-7.2	6.5	-	-	-	-	1.0
009	TF	TT307	-	147 (139.9)	-7.2	4.9	-	-	-	-	1.0
010	TF	UTIBO	-	177 (169.9)	-7.2	27.6	-	4500	-	-	1.0

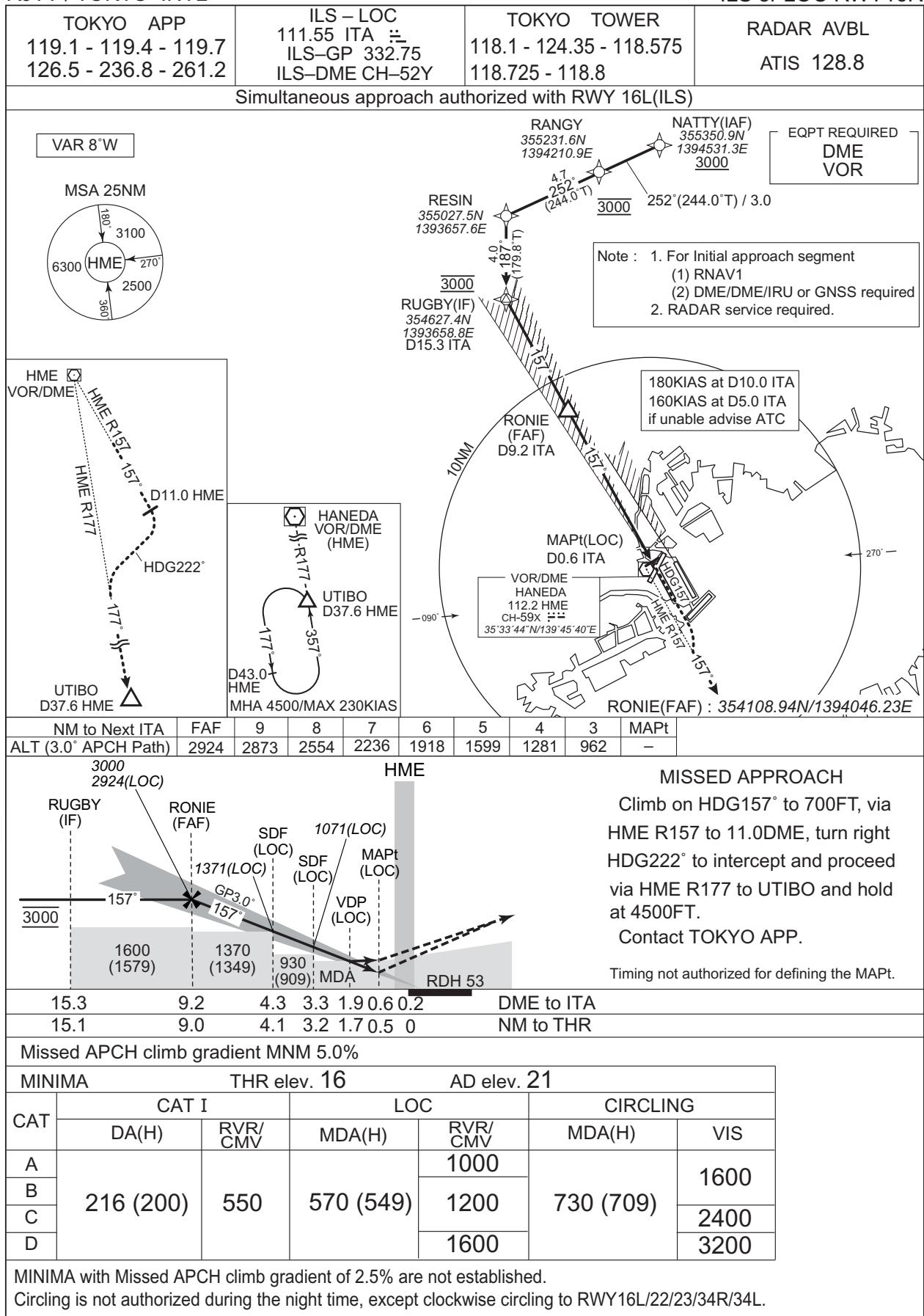
Waypoint Coordinates

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		

CHANGE : PROC renamed.

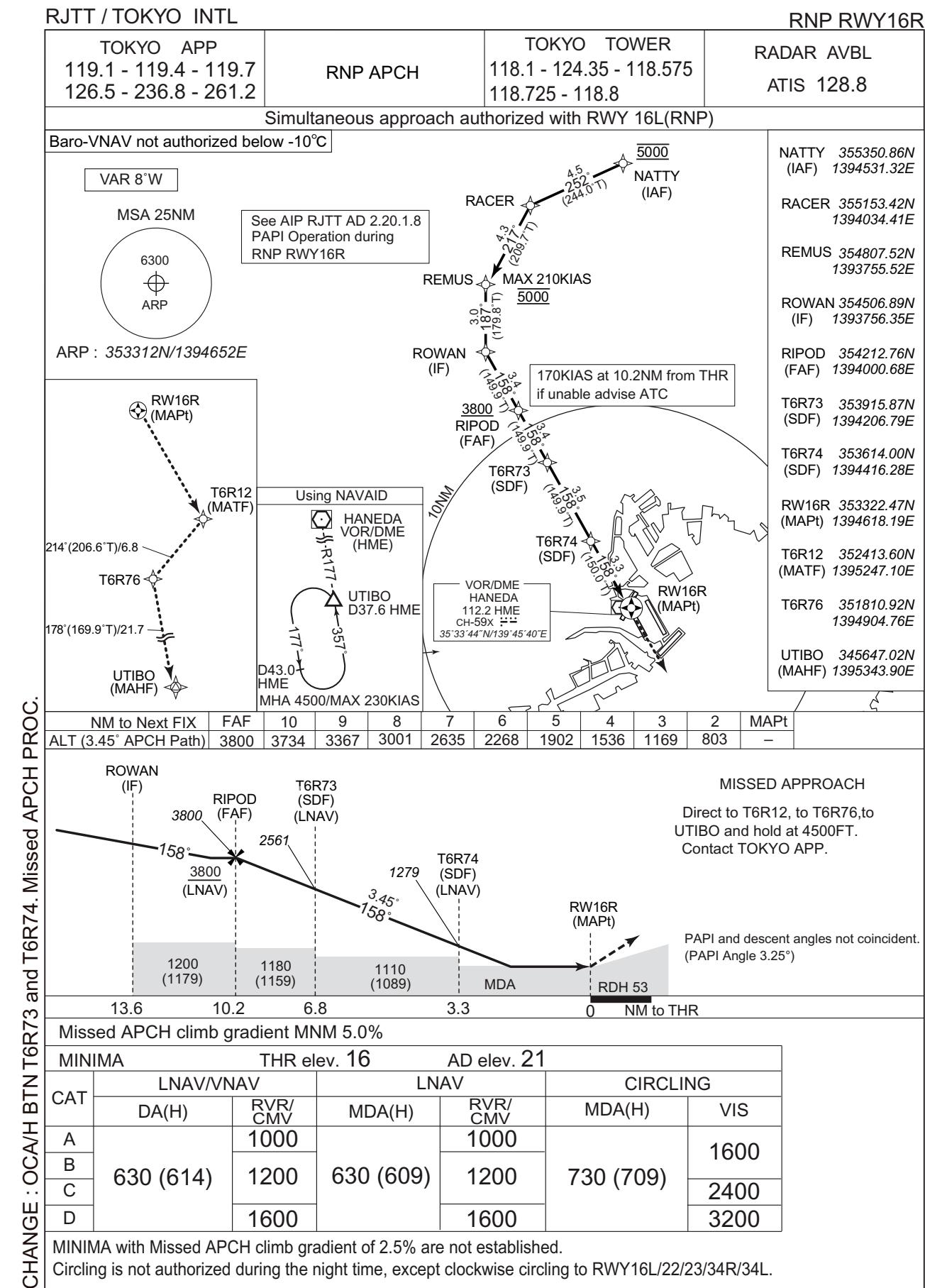
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

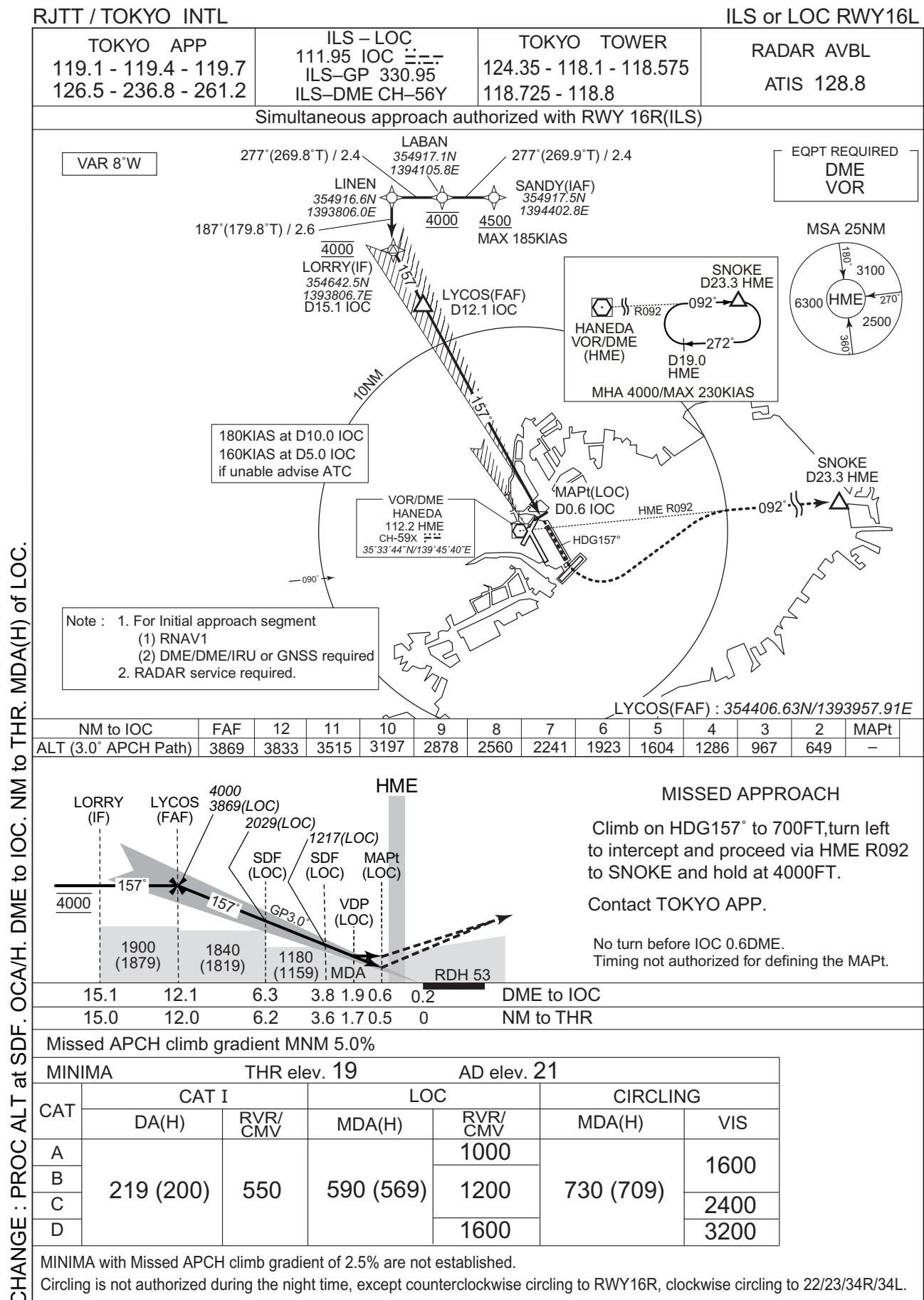


CHANGE : OCA/H BTN RUGBY and RONIE.
C

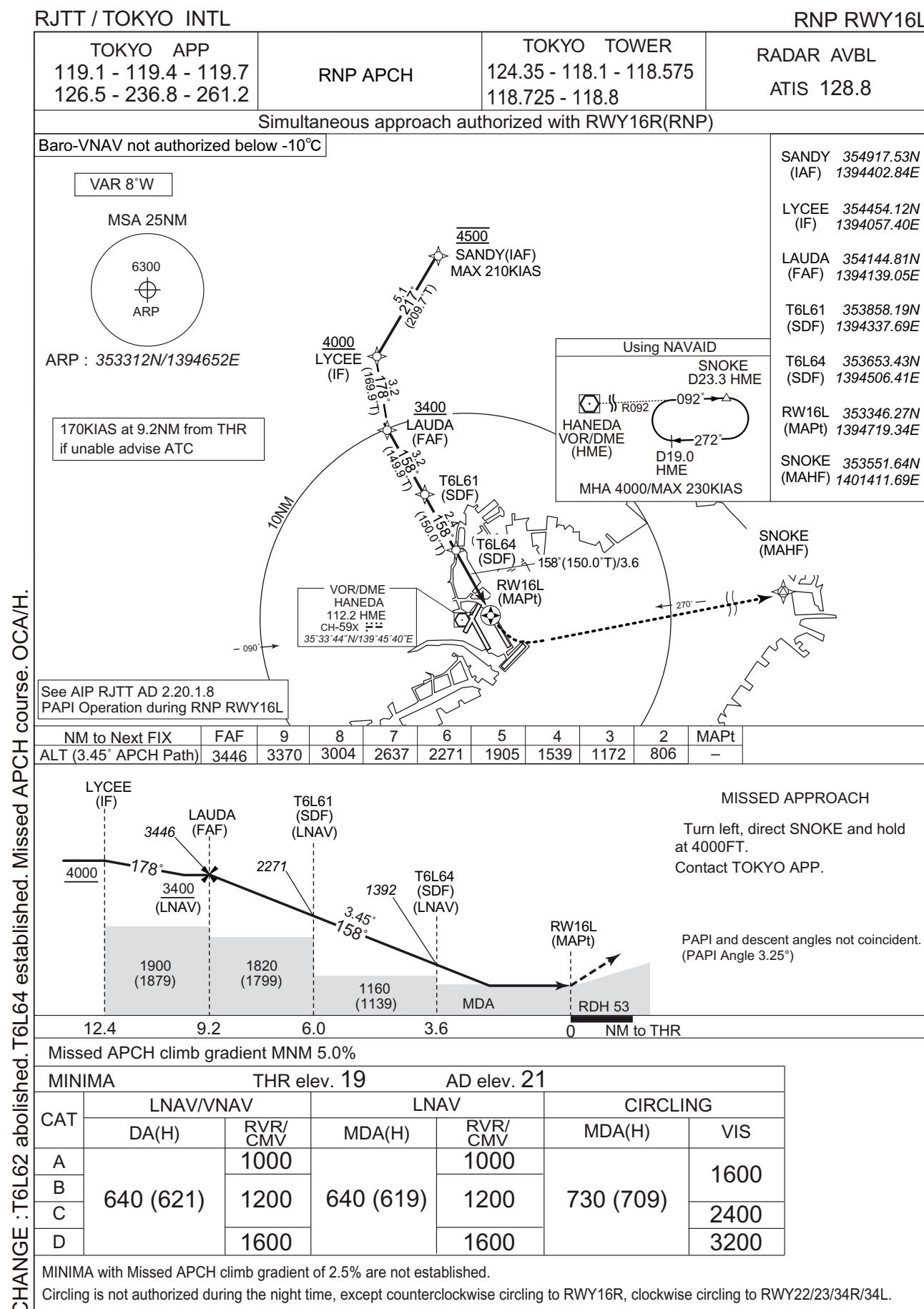
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

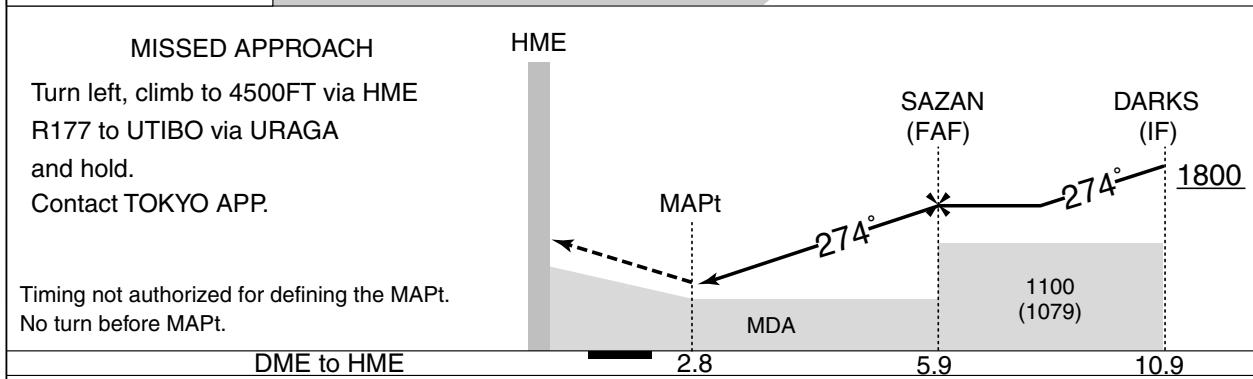
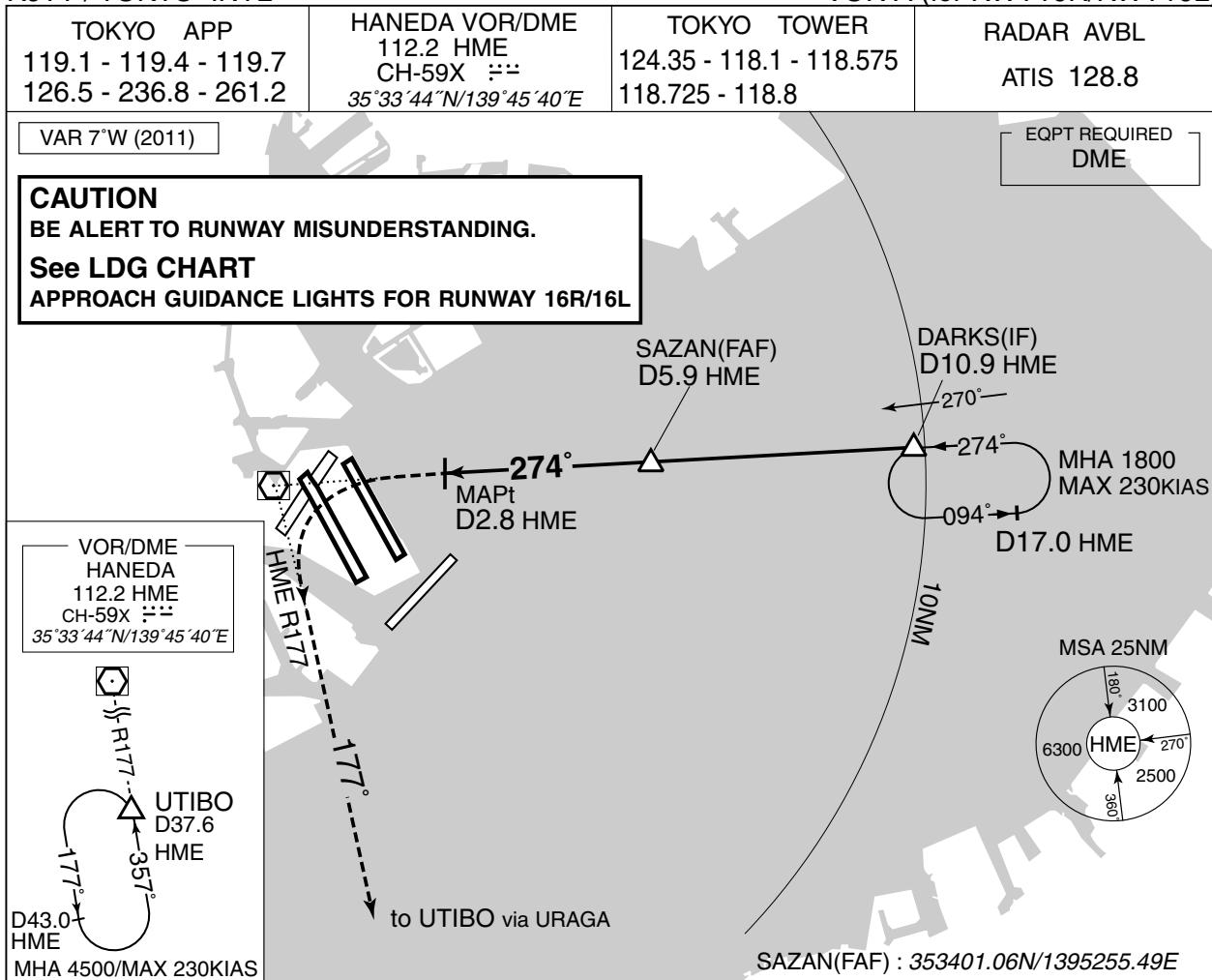


CHANGE : T6L62 abolished. Missed APCH course. OCA/H.

INSTRUMENT APPROACH CHART

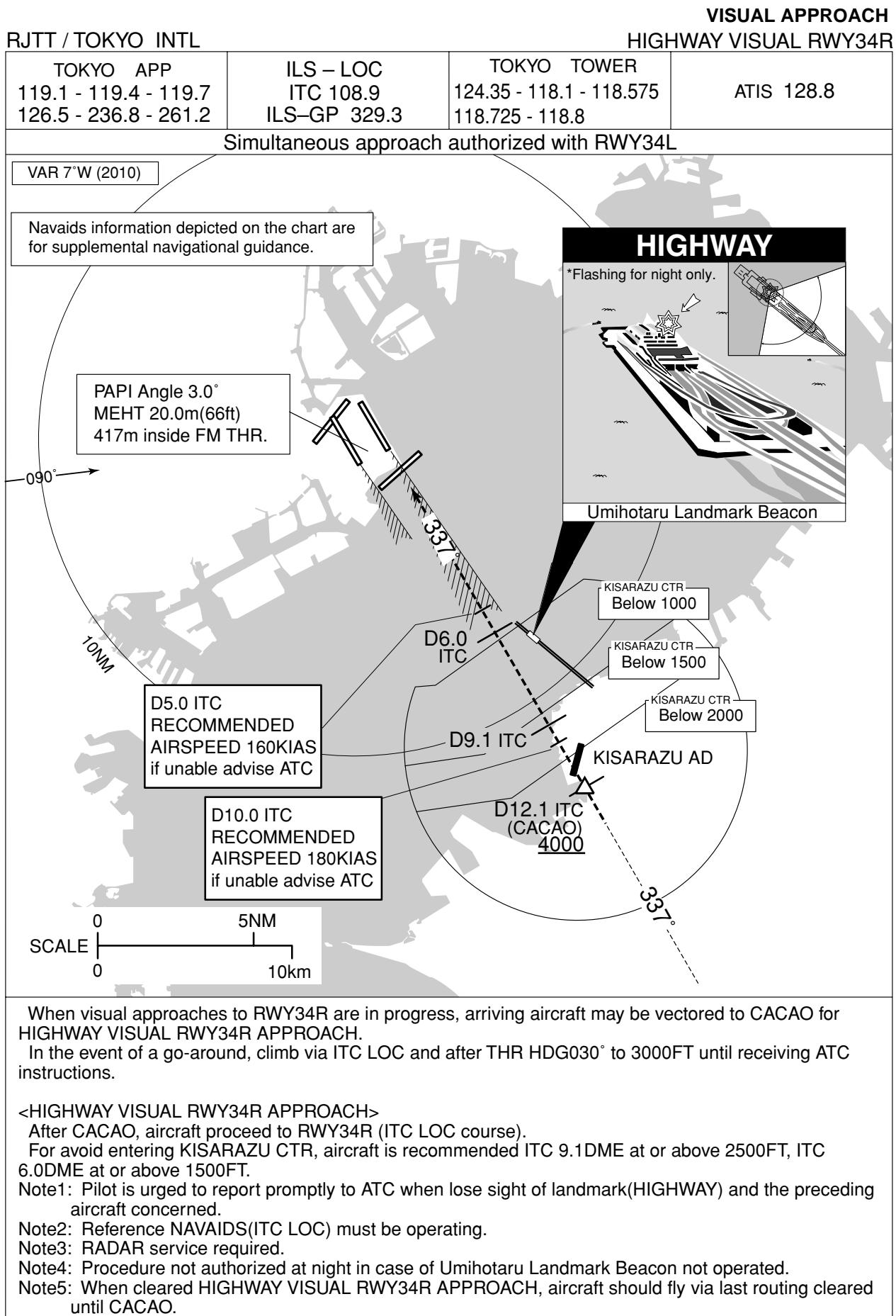
RJTT / TOKYO INTL

VOR A (for RWY16R/RWY16L)



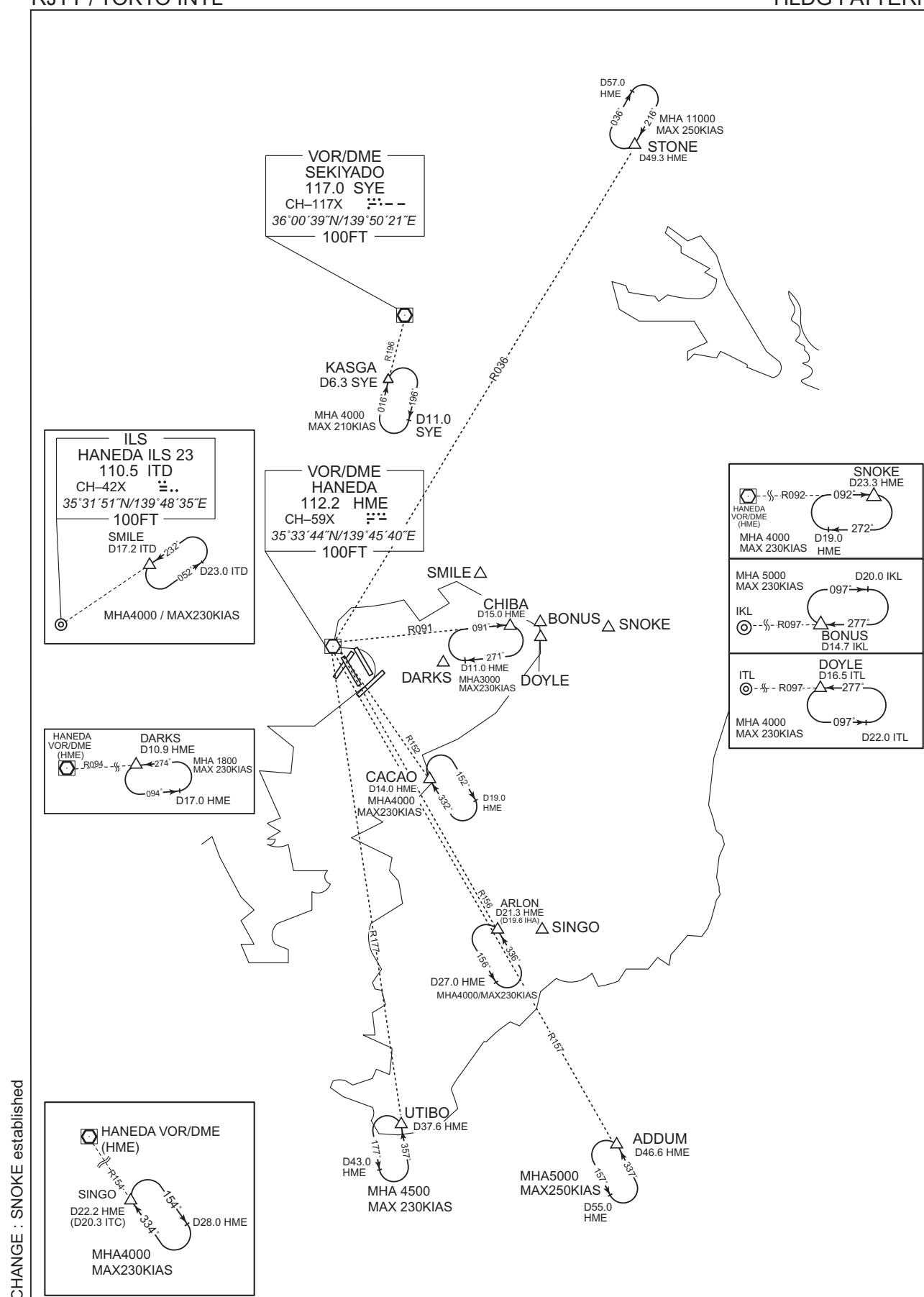
MINIMA		AD elev. 21	
CAT	CIRCLING		
	MDA(H)	VIS	
A		1600	
B	760 (739)		
C		2400	
D		3200	

INTENTIONALLY LEFT BLANK



RJTT / TOKYO INTL

HLDG PATTERN



CHANGE : SNOKE established

RJTT / TOKYO INTL

RNAV HLDG PATTERN

Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.		RNAV 1
1. Outbound Time / Distance 2. Speed → See Tabular Description.		
ARLON MHA 4000	BACON MHA 4000	
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		

CHANGE : ACORN abolished. ANZAC 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)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ANZAC	068 (060.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	ARLON	009 (001.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	AVEEY	314 (306.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	BACON	003 (355.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CIVIC	345 (337.7)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COACH	185 (177.8)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	COLOR	197 (189.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	CREAM	291 (283.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	DENNY	167 (159.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	DREAD	191 (183.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	GODIN	197 (189.2)	-7.5	1.0(-14000) 1.5(+14001)	—	R	8000	—	-230(-14000) -240(+14001)	RNAV1
Hold	KAIHO	353 (345.5)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	MESSE	246 (238.8)	-7.5	1.0(-14000) 1.5(+14001)	—	L	6000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NEURO	290 (282.9)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NOVEL	264 (256.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	5000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NUMAN	360 (352.5)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	NYLON	357 (350.0)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	POLIX	310 (302.3)	-7.5	1.0(-14000) 1.5(+14001)	—	L	11000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SCREW	203 (195.2)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SHAFT	330 (322.4)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SNARE	297 (289.1)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	SPINE	348 (340.6)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	STING	067 (059.6)	-7.5	1.0(-14000) 1.5(+14001)	—	R	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	WEDGE	300 (292.4)	-7.5	1.0(-14000) 1.5(+14001)	—	L	4000	—	-230(-14000) -240(+14001)	RNAV1
Hold	XAC	098 (090.3)	-7.5	1.0(-14000) 1.5(+14001)	—	R	5000	—	-230(-14000) -240(+14001)	RNAV1

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

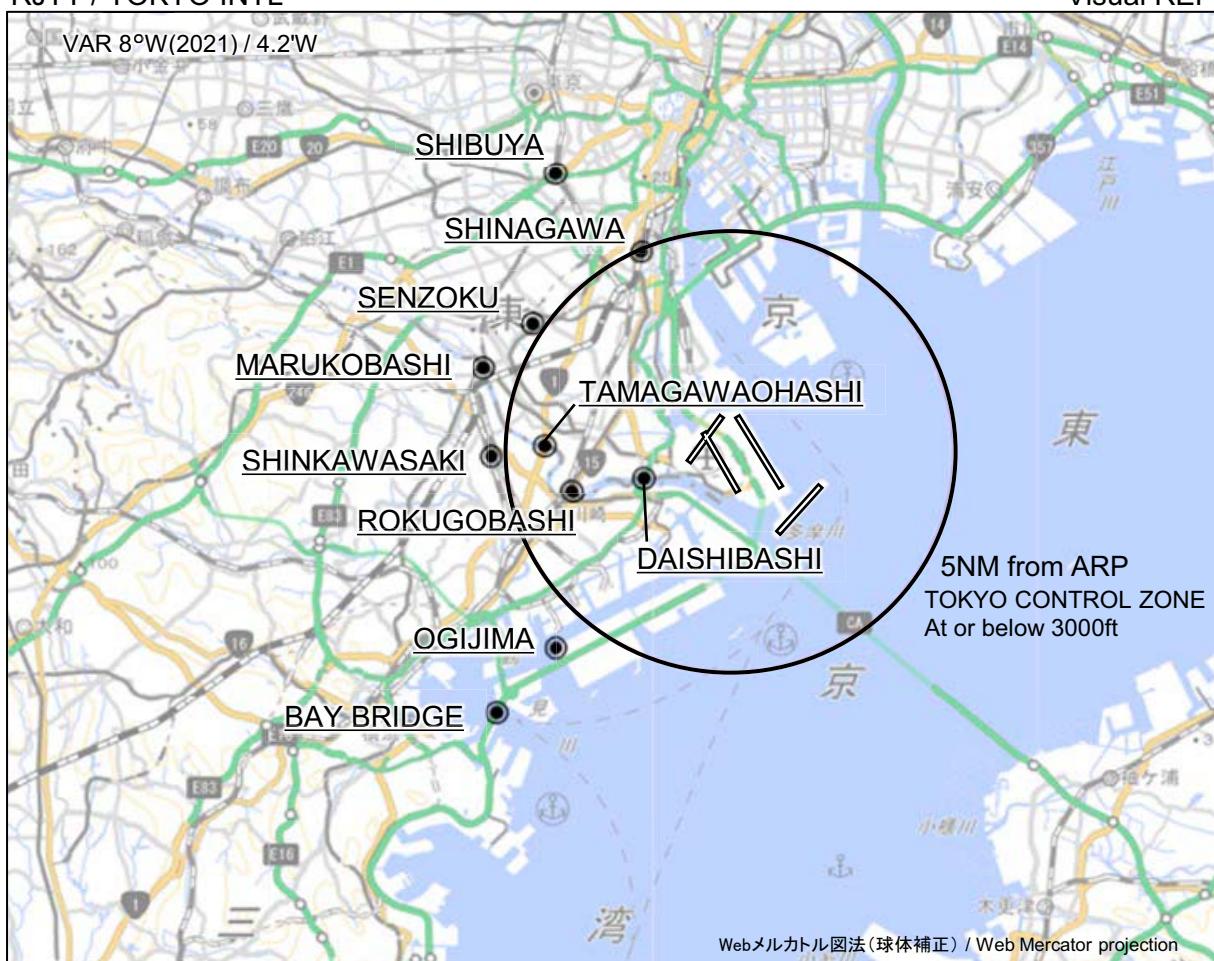
Waypoint Coordinates

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
CIVIC	350840.6N / 1402552.1E	POLIX	361237.1N / 1402622.5E
COACH	353736.0N / 1401231.5E	SCREW	360301.2N / 1395400.4E
COLOR	360116.3N / 1401219.8E	SHAFT	352227.4N / 1401313.3E
CREAM	351743.4N / 1400612.4E	SNARE	354731.1N / 1395238.1E
DENNY	354828.8N / 1400556.4E	SPINE	354213.5N / 1401125.8E
DREAD	360359.2N / 1395856.9E	STING	345157.9N / 1401453.4E
GODIN	362425.3N / 1401655.9E	WEDGE	350900.4N / 1395846.5E
KAIHO	351857.8N / 1394642.4E	XAC	344244.1N / 1392450.5E

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

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).

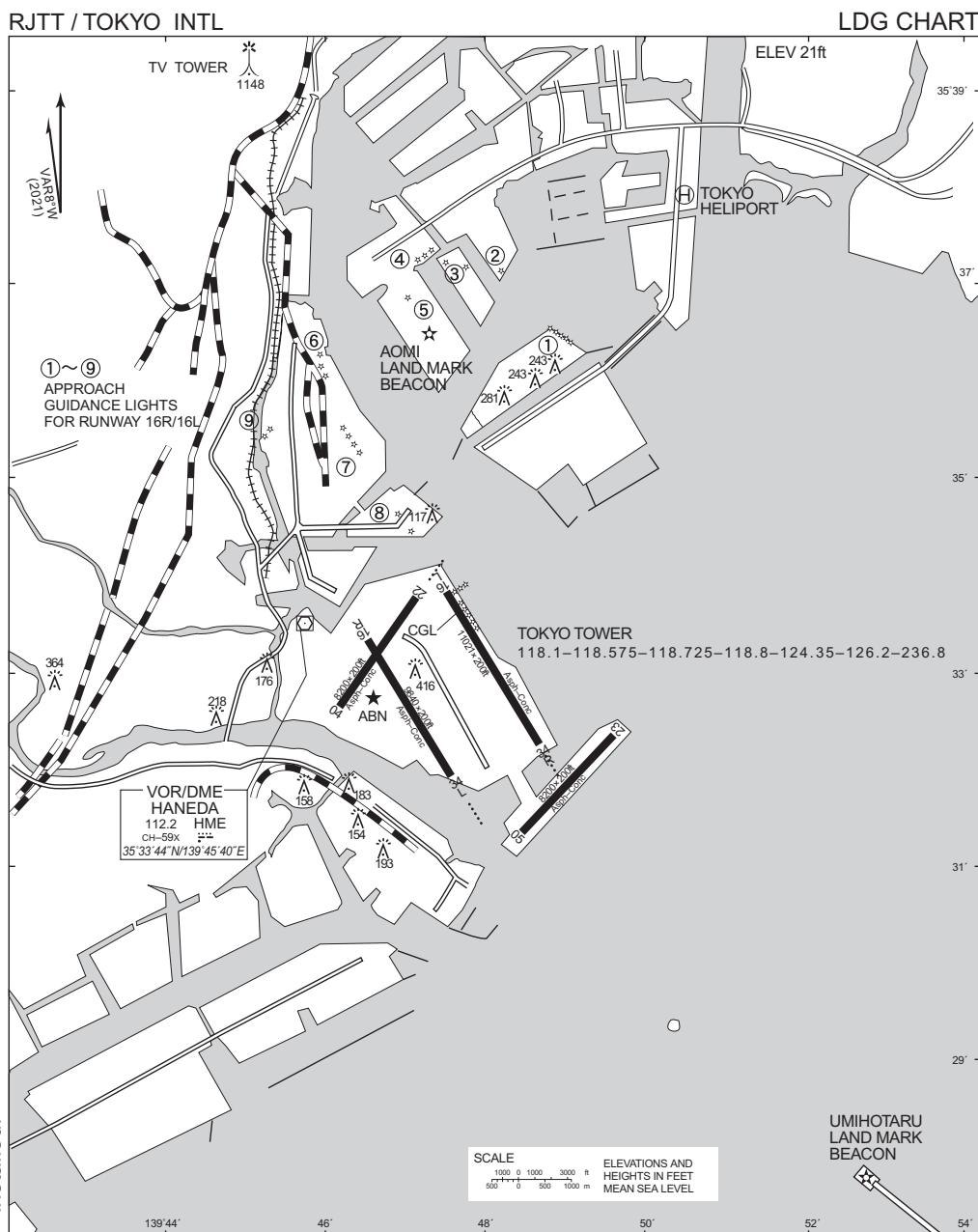
Call sign	BRG / DIST from ARP	Remarks
渋谷 Shibuya	328°T / 7.4NM	JR駅 JR Station
品川 Shinagawa	336°T / 5.0NM	JR駅 JR Station
洗足 Senzoku	303°T / 5.3NM	池 Pond
丸子橋 Marukobashi	289°T / 5.8NM	橋 Bridge
多摩川大橋 Tamagawaohashi	272°T / 4.2NM	橋 Bridge
新川崎 Shinkawasaki	269°T / 5.4NM	JR駅 JR Station
大師橋 Daishibashi	253°T / 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.

RJTT / TOKYO INTL

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.

