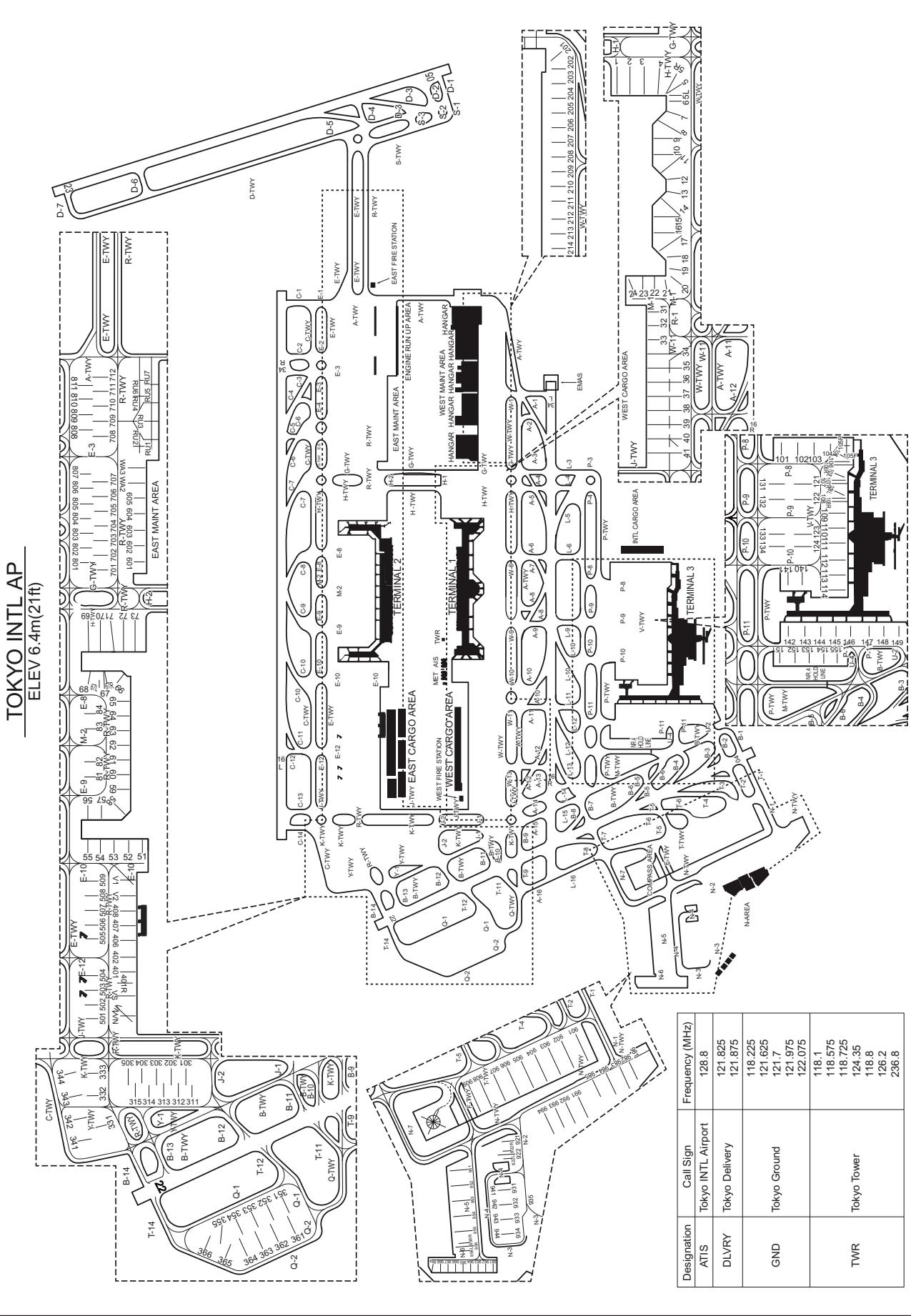




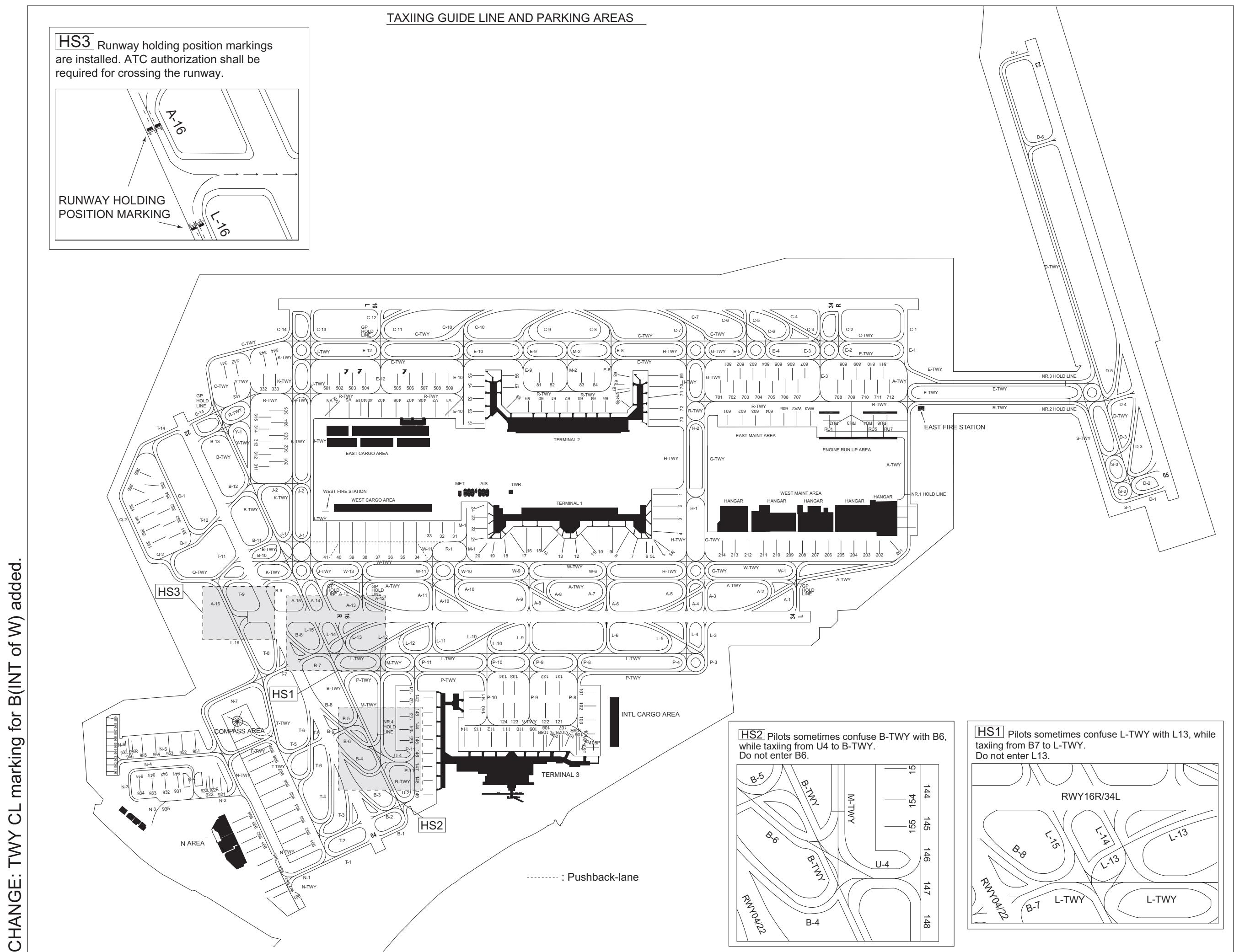
RJTT / TOKYO INTL

AD CHART

CHANGE: TWY CL marking for Y added. TWY CL marking for E4, U4 deleted.



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DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 7°W-APR 2015



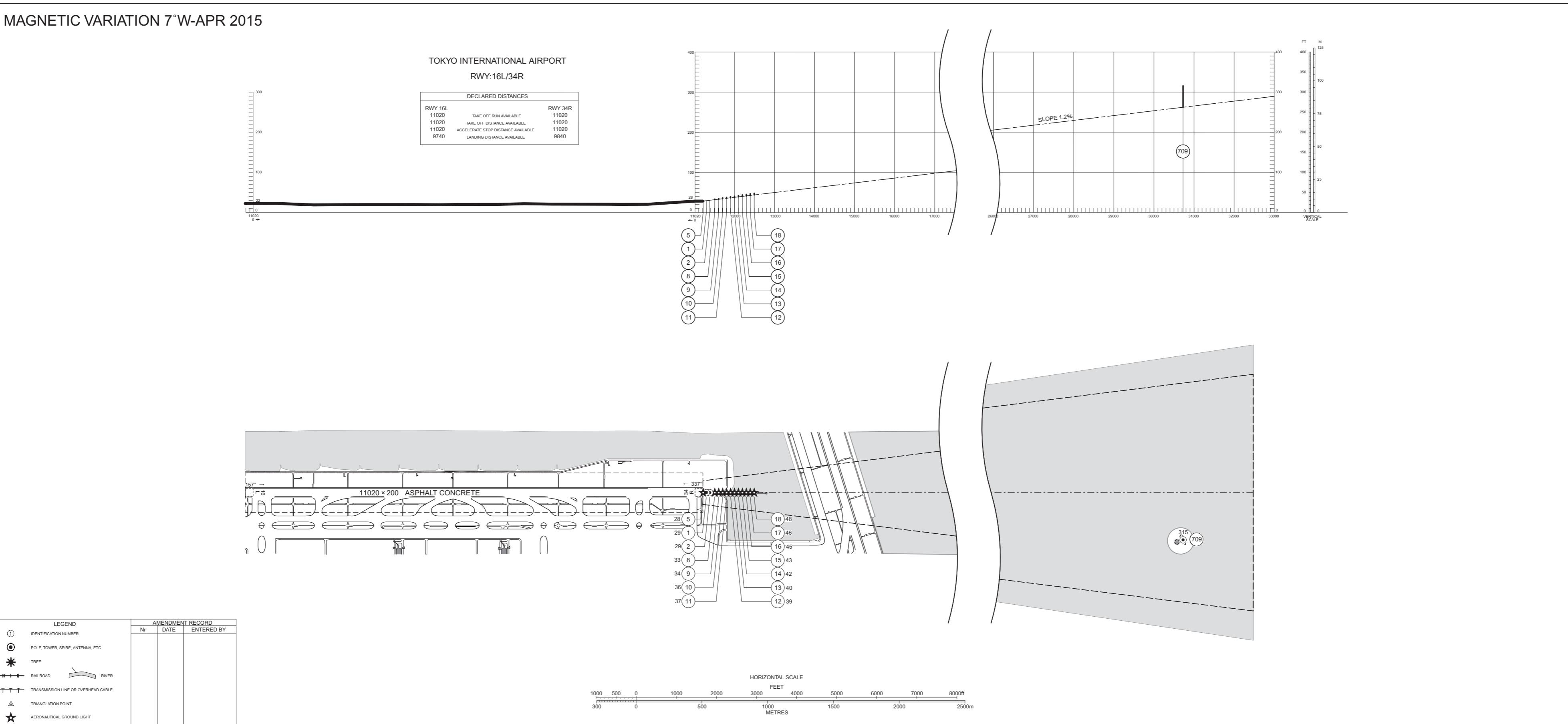
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A (OPERATING LIMITATIONS)



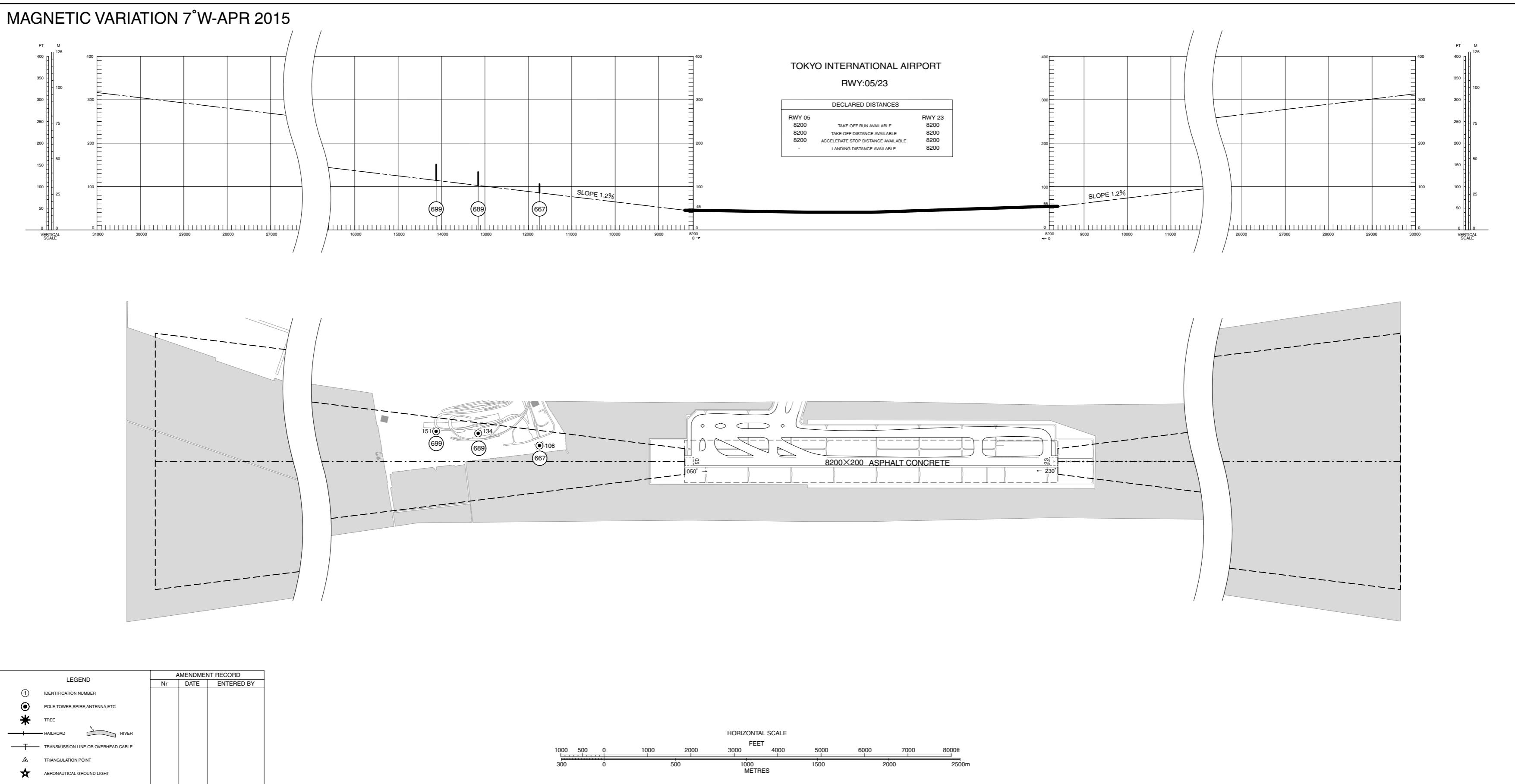
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



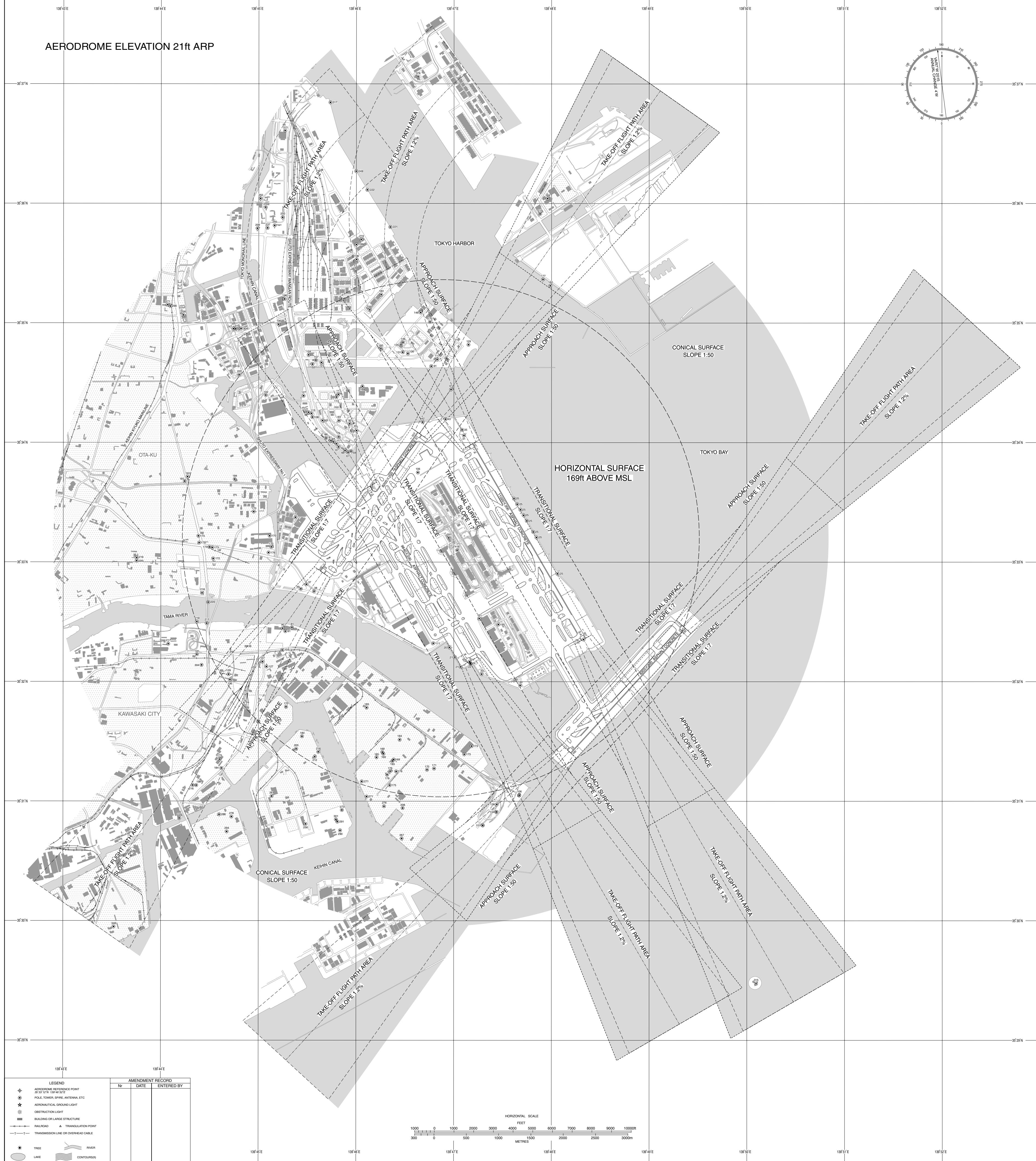
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO  
TYPE A(OPERATING LIMITATIONS)



## AERODROME OBSTACLE CHART-ICAO TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



## 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<br>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<br>(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<br>(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.<br>※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.<br>2) RADAR service required. | Critical DME | RWY16R:HME 1.2NM FM DER - 1.9NM to T6R11<br>RWY16L:HME 1.0NM FM DER - 2.4NM to T6L21<br>RWY34R:HME 1.0NM FM DER - 2.5NM to TT502<br>RWY34L:HME 0.5NM FM DER - 2.5NM to TT502<br>RWY04:HME 1.7NM FM DER - 2.5NM to TT502<br>RWY05:HME DER - 2.7NM to TT502 |
| DME GAP<br>RWY16R:DER - 1.2NM FM DER<br>RWY16L:DER - 1.0NM FM DER<br>RWY34R:DER - 1.0NM FM DER<br>RWY34L:DER - 0.5NM FM DER<br>RWY04:DER - 1.7NM FM DER<br>RWY22:DER - 1.4NM FM DER                              |              |   |
| Inappropriate Navaids<br>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.<br><br>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 <u>DRAKY TRANSITION</u> route goes from Oshima (XAC) to Draky via a bearing of 218°. From Draky, it continues to Vamos (9000ft) via a bearing of 222°. The <u>TATEYAMA TRANSITION</u> route goes from Oshima (XAC) to Tateyama via a bearing of 218°. From Tateyama, it continues to Utibo via a bearing of 068°. The chart also includes information for VORTAC Oshima (113.1CH-78X, 2100FT), TACAN Tateyama (986CH-25X, 500FT), and DME Tateyama (1159CH-72X, 600FT).</p> |  |                 |

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<br>(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<br>(210.2) | -7.5               | 22.2          | –              | –             | –            | –              | RNAV1                    |
| 003           | TF              | XAC                 | –        | 218<br>(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.<br>※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.<br>2) RADAR service required. | Critical DME | RWY16R: HME 1.2NM FM DER - 1.9NM to T6R11<br>HYD T6R11 - TAURA<br>RWY16L: HME 1.0NM FM DER - 2.4NM to T6L21<br>HYD 9.0NM to TAURA - TAURA<br>RWY34R: HME 1.0NM FM DER - 2.5NM to TT502<br>HYD 8.6NM to TAURA - TAURA<br>RWY34L: HME 0.5NM FM DER - 2.5NM to TT502<br>HYD 8.6NM to TAURA - TAURA<br>RWY04: HME 1.7NM FM DER - 2.5NM to TT502<br>HYD 8.6NM to TAURA - TAURA<br>RWY05: HME DER - 2.7NM to TT502<br>HYD 8.6NM to TAURA - TAURA |
| DME GAP  |              | RWY16R:DER - 1.2NM FM DER<br>RWY16L:DER - 1.0NM FM DER<br>RWY34R:DER - 1.0NM FM DER<br>RWY34L:DER - 0.5NM FM DER<br>RWY04:DER - 1.7NM FM DER<br>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.<br>※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.<br>2) RADAR service required. |  |              |
| DME GAP  | RWY16R : DER - 1.2NM FM DER<br>RWY16L : DER - 1.0NM FM DER<br>RWY34R : DER - 1.0NM FM DER<br>RWY34L : DER - 0.5NM FM DER<br>RWY04 : DER - 1.7NM FM DER<br>RWY22 : DER - 1.4NM FM DER | Critical DME |
| Inappropriate Navaids  | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1   |              |
| VAR8°W(2020)   |  |              |
| <p><b>NINOX THREE DEPARTURE</b></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

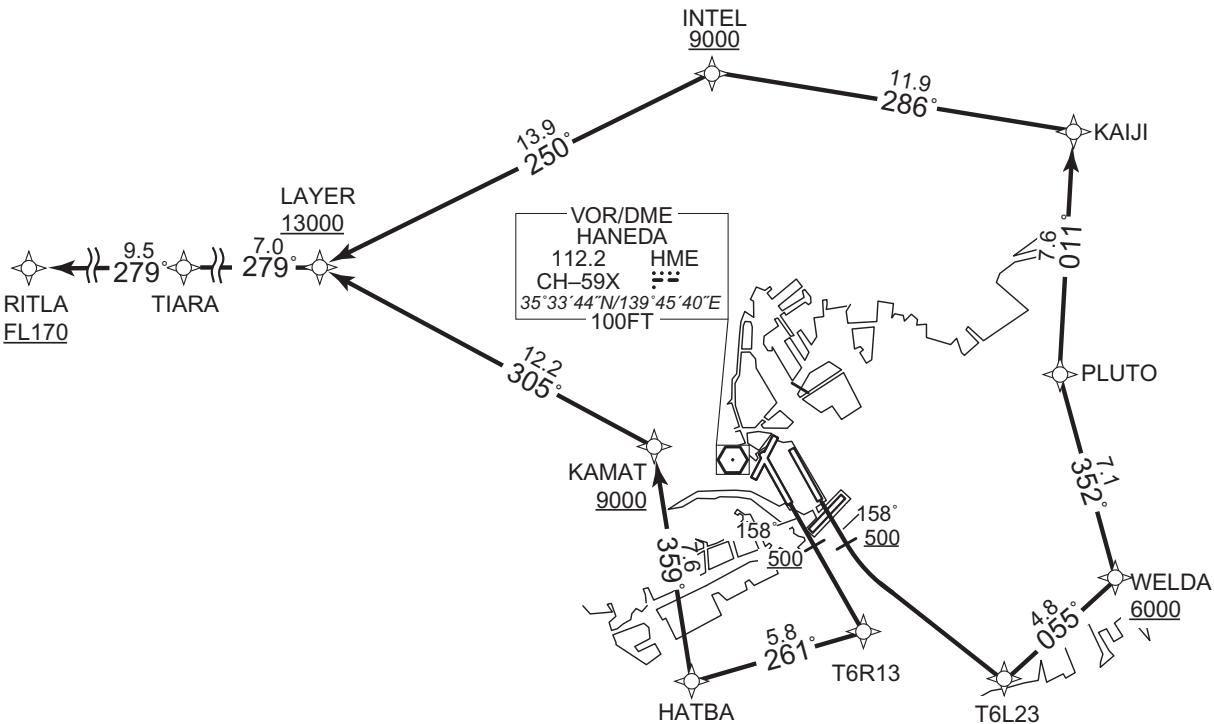
RNAV SID

| RITLA TWO A DEPARTURE  |   | RNAV SID     |
|--|---|--------------|
| Note 1) DME/DME/IRU or GNSS required.<br>※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.<br>2) RADAR service required. |   | RNAV1        |
| DME GAP  | RWY16R : DER - 1.2NM FM DER<br>RWY16L : DER - 1.0NM FM DER<br>RWY34R : DER - 1.0NM FM DER<br>RWY34L : DER - 0.5NM FM DER<br>RWY04 : DER - 1.7NM FM DER<br>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)

RITLA TWO A DEPARTURE RWY16R/16L

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established.



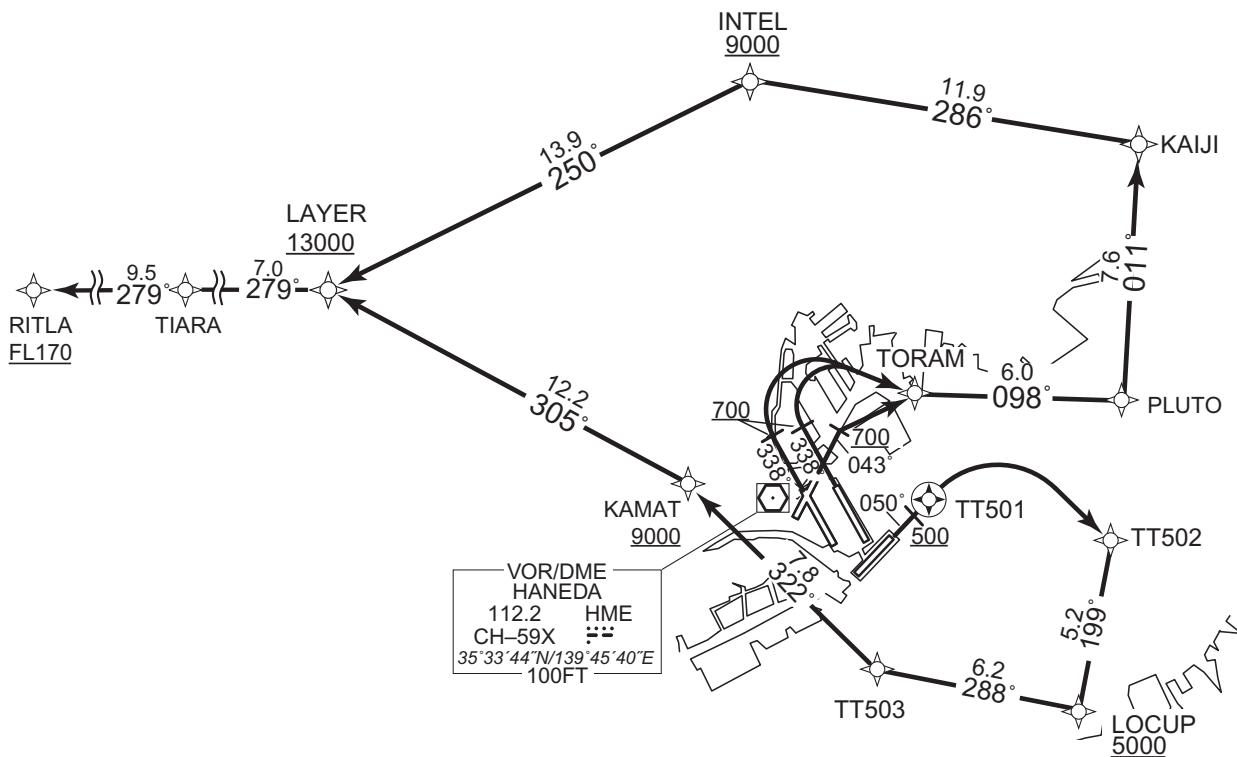
## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

RITLA TWO A DEPARTURE RWY 34L/34R/04/05



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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA TWO A DEPARTURE

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

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

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

CHANGE : PROC renamed. RTE after LAYER. TIARA established. HDG after DEP FM RWY04.

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA 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              | TIARA               | —        | 279 (271.2)   | -7.6               | 7.0           | —              | —             | —            | —              | RNAV1                    |
| 007           | TF              | RITLA               | —        | 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              | RITLA               | —        | 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              | RITLA               | —        | 279 (271.1)   | -7.6               | 9.5           | —              | +FL170        | —            | —              | RNAV1                    |

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

## 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              | RITLA               | —        | 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              | RITLA               | —        | 279 (271.1)   | -7.6               | 9.5           | —              | +FL170        | —            | —              | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| 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 | TIARA               | 353934.0N / 1391954.2E |
| KAMAT               | 353353.6N / 1394148.9E | TORAM               | 353636.8N / 1395011.0E |
| LAYER               | 353925.4N / 1392829.5E | TT501               | 353328.7N / 1395029.9E |
| LOCUP               | 352718.8N / 1395608.5E | TT502               | 353224.4N / 1395720.7E |
| PLUTO               | 353632.1N / 1395736.8E | TT503               | 352828.0N / 1394840.4E |
| RITLA               | 353944.8N / 1390813.1E | WELDA               | 352941.4N / 1395956.7E |

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY04:NR001(Route). RWY05:NR004(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

## RITLA TWO B DEPARTURE

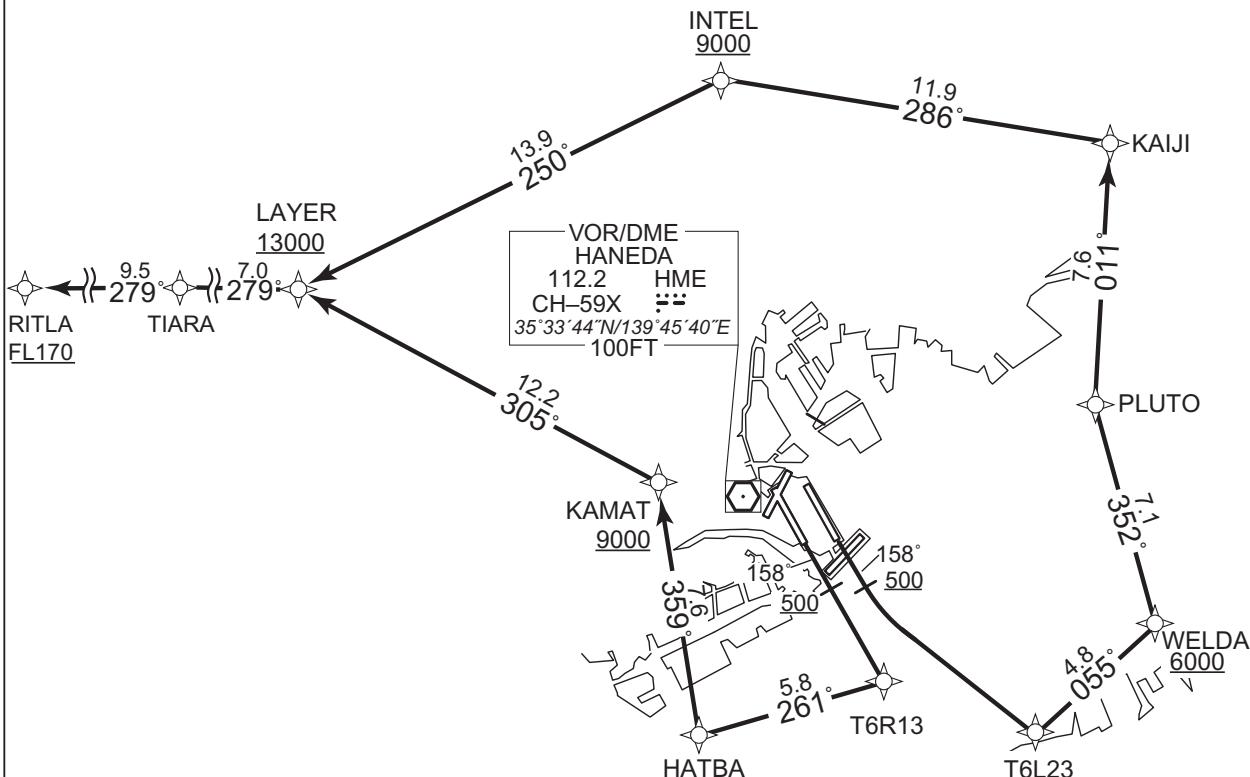
RNAV1

|   |   |   |
|---|---|---|
| <p>Note 1) DME/DME/IRU or GNSS required.<br/>       ※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.</p> <p>2) RADAR service required.</p> |   | <p>Critical DME</p> <p>RWY16R : HME 1.2NM FM DER - HATBA<br/>       HYD 2.8NM to HATBA - 1.6NM to HATBA<br/>       KAMAT - 9.2NM to LAYER<br/>       PQD HATBA - 1.6NM to KAMAT<br/>       KAMAT - 9.2NM to LAYER<br/>       SND 11.2NM to LAYER - LAYER</p> <p>RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23<br/>       PQD 6.6NM to KAIJI - KAIJI<br/>       NRE 6.9NM to INTEL - 6.9NM to LAYER</p> <p>RWY05 : HME DER - 2.7NM to TT502<br/>       TT503 - 3.8NM to KAMAT<br/>       1.8NM to KAMAT - KAMAT<br/>       HYD 1.2NM to TT503 - TT503<br/>       4.8NM to KAMAT - 3.8NM to KAMAT<br/>       PQD KAMAT - 9.2NM to LAYER<br/>       SND 11.2NM to LAYER - LAYER</p> |
| DME GAP   | <p>RWY16R : DER - 1.2NM FM DER<br/>       RWY16L : DER - 1.0NM FM DER<br/>       RWY34R : DER - 1.0NM FM DER<br/>       RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT</p> |   |
| Inappropriate Navaids   | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1  |   |

VAR8°W(2020)

## RITLA TWO B DEPARTURE RWY16R/16L

CHANGE : PROC renamed. VAR, RTE after LAYER, TIARA established.



STANDARD DEPARTURE CHART-INSTRUMENT

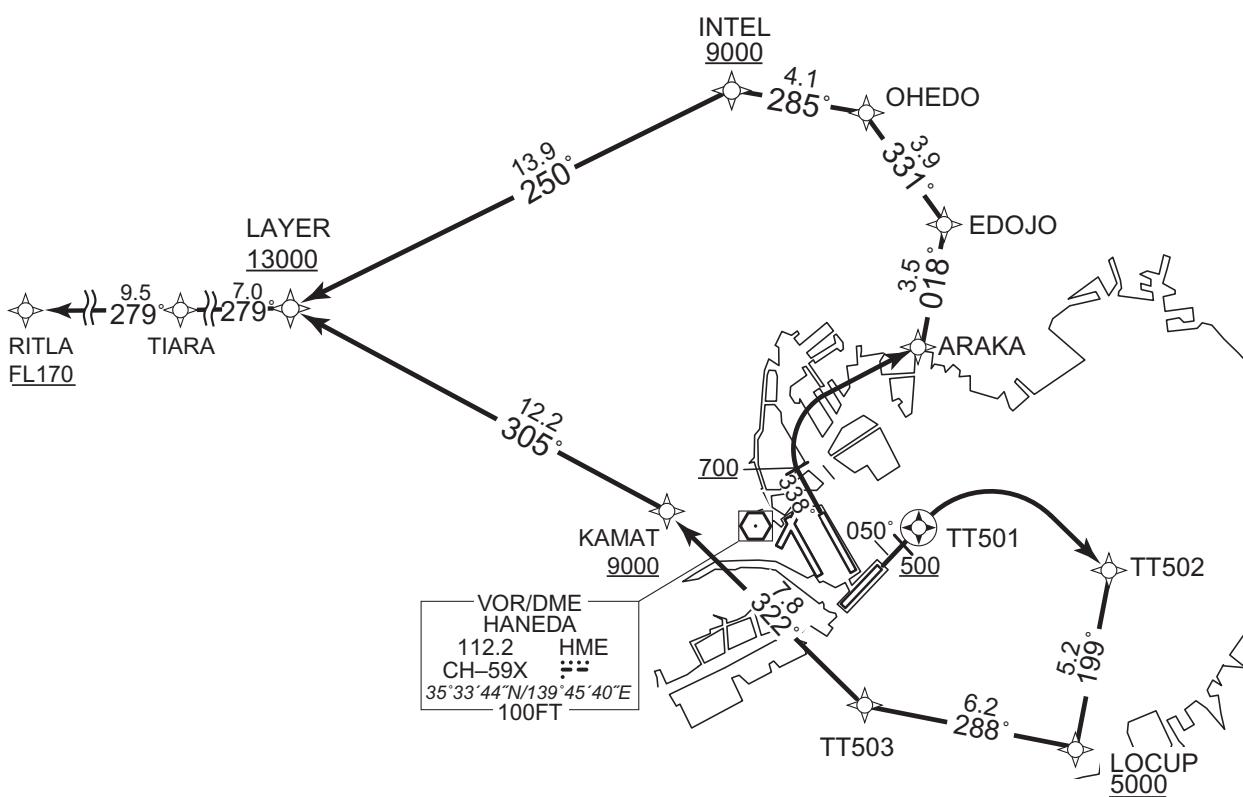
RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

RITLA TWO B DEPARTURE      RWY 34R/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. Course FM TT502 to LOCUP.



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RITLA 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 TIARA, to RITLA 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 RITLA 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 RITLA 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 RITLA 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

**RITLA 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              | TIARA               | —        | 279 (271.2)   | -7.6               | 7.0           | —              | —             | —            | —              | RNAV1                    |
| 007           | TF              | RITLA               | —        | 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              | RITLA               | —        | 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              | RITLA               | —        | 279 (271.1)   | -7.6               | 9.5           | —              | +FL170        | —            | —              | RNAV1                    |

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

## 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              | RITLA               | —        | 279 (271.1)   | -7.6               | 9.5           | —              | +FL170        | —            | —              | RNAV1                    |

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY05;NR004(Course).

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA               | 353848.8N / 1395041.9E | PLUTO               | 353632.1N / 1395736.8E |
| EDOJO               | 354214.0N / 1395129.9E | RITLA               | 353944.8N / 1390813.1E |
| 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 | TIARA               | 353934.0N / 1391954.2E |
| 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 |
| OHEDO               | 354523.4N / 1394838.6E | WELDA               | 352941.4N / 1395956.7E |

## **STANDARD DEPARTURE CHART-INSTRUMENT**

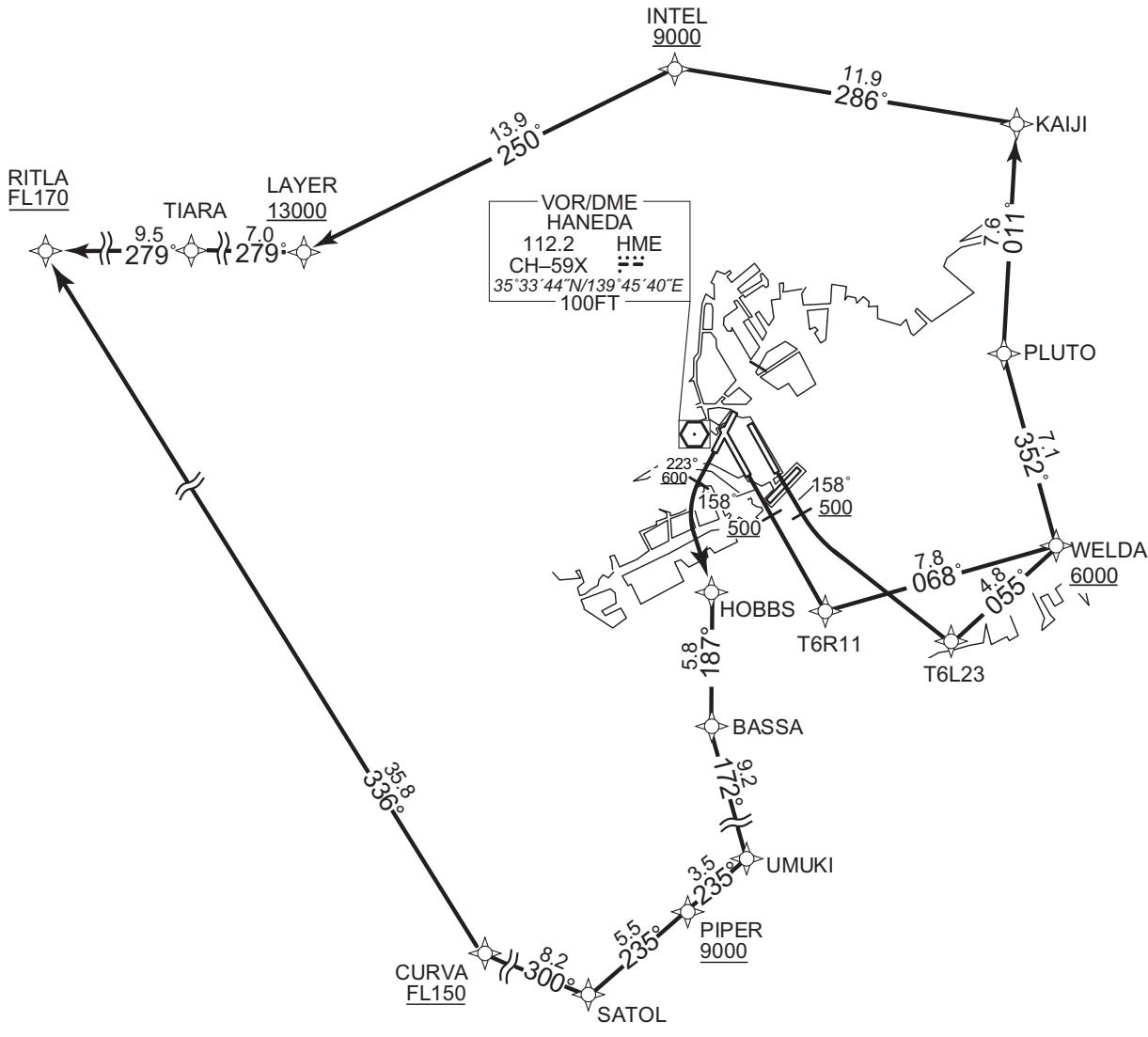
RJTT/TOKYO INTL

**RNAV SID**

| RITLA TWO C DEPARTURE   |   |              | RNAV1   |
|---|---|--------------|---|
| <p>Note 1) DME/DME/IRU or GNSS required.</p> <p>※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.</p> <p>2) RADAR service required.</p> |   |              |   |
| DME GAP   | <p>RWY16R : DER - 1.2NM FM DER</p> <p>RWY16L : DER - 1.0NM FM DER</p> <p>RWY34R : DER - 1.0NM FM DER</p> <p>RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT</p> <p>RWY22 : DER - 1.4NM FM DER</p> | Critical DME | <p>RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11<br/>PQD 6.6NM to KAIJI - KAIJI<br/>NRE 6.9NM to INTEL - 6.9NM to LAYER</p> <p>RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23<br/>PQD 6.6NM to KAIJI - KAIJI<br/>NRE 6.9NM to INTEL - 6.9NM to LAYER</p> <p>RWY05 : HME DER - 2.7NM to TT502<br/>TT503 - 3.8NM to KAMAT<br/>1.8NM to KAMAT - KAMAT<br/>HYD 1.2NM to TT503 - TT503<br/>4.8NM to KAMAT - 3.8NM to KAMAT<br/>PQD KAMAT - 9.2NM to LAYER<br/>SND 11.2NM to LAYER - LAYER</p> |
| Inappropriate Navaids   | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1  |              |   |

VAR8°W(2020)

RITLA TWO C DEPARTURE      RWY16R/16L/22



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

RITLA TWO C DEPARTURE      RWY 34R/05

CHANGE : PROC renamed. VAR. RTE after LAYER. TIARA established. Course FM TT502 to LOCUP.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

**RITLA 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 INTEL at or above 9000FT, to LAYER at or above 13000FT, to TIARA, to RITLA 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 RITLA 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 RITLA 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 RITLA 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 RITLA at or above FL170.

Note RWY34R : 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

RITLA 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              | 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              | RITLA               | —        | 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              | RITLA               | —        | 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              | RITLA               | —        | 279 (271.1)   | -7.6               | 9.5           | —              | +FL170        | —            | —              | RNAV1                    |

CHANGE : PROC renamed. Magnetic Variation. RTE after LAYER. TIARA established.

## 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              | RITLA               | -        | 279 (271.1)   | -7.6               | 9.5           | -              | +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)   | -7.6               | -             | -              | +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              | RITLA               | -        | 336 (328.3)   | -7.6               | 35.8          | -              | +FL170        | -            | -              | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA               | 353848.8N / 1395041.9E | PLUTO               | 353632.1N / 1395736.8E |
| BASSA               | 352108.8N / 1394542.2E | RITLA               | 353944.8N / 1390813.1E |
| CURVA               | 350919.0N / 1393124.4E | SATOL               | 350613.3N / 1394043.4E |
| EDOJO               | 354214.0N / 1395129.9E | T6L23               | 352627.6N / 1395539.1E |
| HOBBS               | 352653.9N / 1394541.3E | 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 | UMUKI               | 351219.1N / 1394849.2E |
| OHEDO               | 354523.4N / 1394838.6E | WELDA               | 352941.4N / 1395956.7E |
| PIPER               | 350958.3N / 1394542.0E |                     |                        |

CHANGE : Magnetic Variation. RTE after LAYER. TIARA established. RWY05:NR004(Course). RWY22:NR001,004(Course).

## STANDARD DEPARTURE CHART-INSTRUMENT

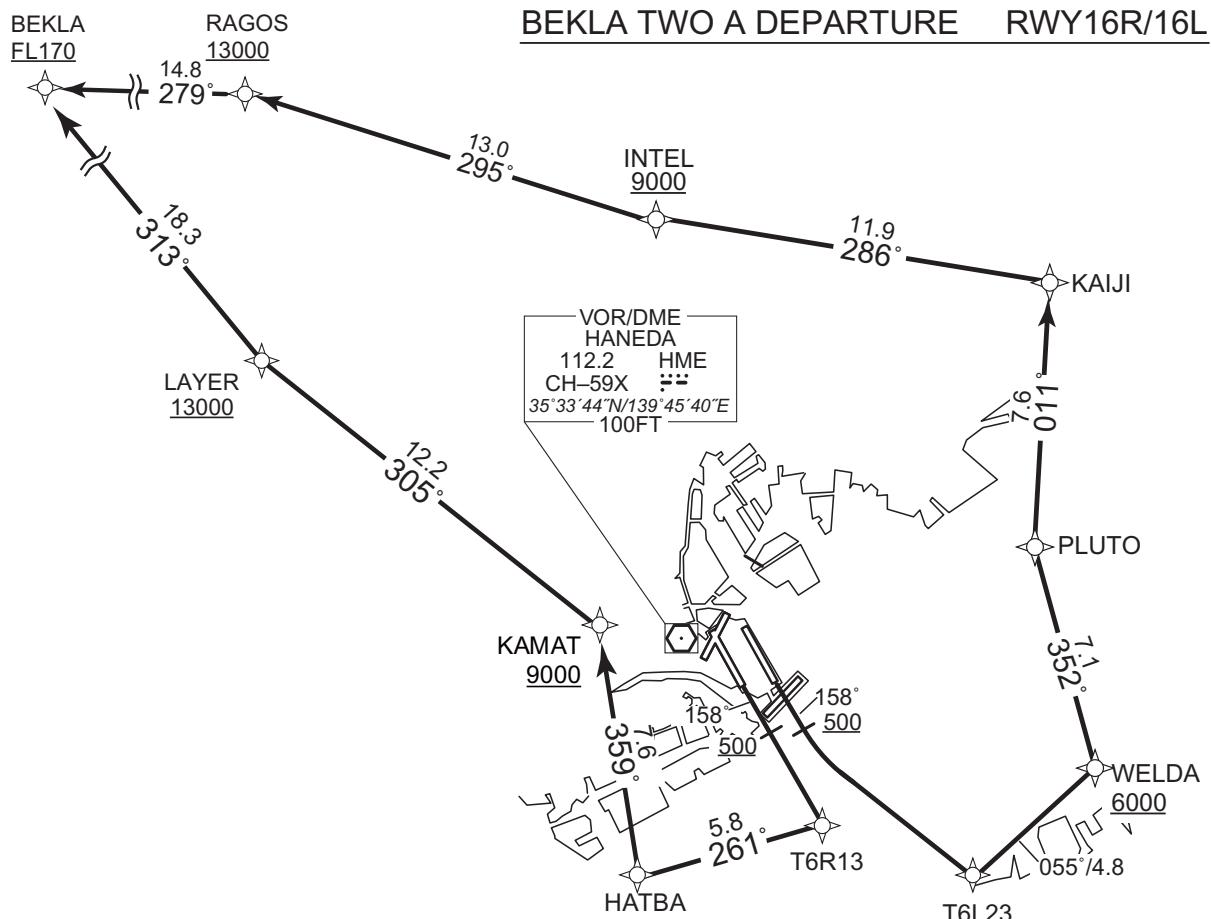
RJTT/TOKYO INTL

RNAV SID

| BEKLA TWO A DEPARTURE  |   | RNAV1   |
|--|---|---|
| Note 1) DME/DME/IRU or GNSS required.<br>※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.<br>2) RADAR service required. |   |   |
| DME GAP  | RWY16R : DER - 1.2NM FM DER<br>RWY16L : DER - 1.0NM FM DER<br>RWY34R : DER - 1.0NM FM DER<br>RWY34L : DER - 0.5NM FM DER<br>RWY04 : DER - 1.7NM FM DER<br>RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT | Critical DME  |
| Inappropriate Navaids  | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1  | RWY16R : HME 1.2NM FM DER - HATBA<br>HYD 2.8NM to HATBA - 1.6NM to HATBA<br>PQD HATBA - 1.6NM to KAMAT<br>RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23<br>PQD 6.6NM to KAIJI - KAIJI<br>NRE 6.9NM to INTEL - INTEL<br>RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO<br>SND TORAM - 3.1NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI<br>NRE 6.9NM to INTEL - INTEL<br>RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO<br>SND TORAM - 3.1NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI<br>NRE 6.9NM to INTEL - INTEL<br>RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO<br>SND 2.2NM to TORAM - 3.1NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI<br>NRE 6.9NM to INTEL - INTEL<br>RWY05 : HME DER - 2.7NM to TT502<br>TT503 - 3.8NM to KAMAT<br>1.8NM to KAMAT - KAMAT<br>HYD 1.2NM to TT503 - TT503<br>4.8NM to KAMAT - 3.8NM to KAMAT |

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<br>(150.0) | -7.6               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | T6R13               | —        | —              | -7.6               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | HATBA               | —        | 261<br>(253.8) | -7.6               | 5.8           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | KAMAT               | —        | 359<br>(351.1) | -7.6               | 7.6           | —              | +9000         | —            | —              | RNAV1                    |
| 005           | TF              | LAYER               | —        | 305<br>(297.1) | -7.6               | 12.2          | —              | +13000        | —            | —              | RNAV1                    |
| 006           | TF              | BEKLA               | —        | 313<br>(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<br>(150.0) | -7.6               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | T6L23               | —        | —              | -7.6               | —             | L              | —             | —            | —              | RNAV1                    |
| 003           | TF              | WELDA               | —        | 055<br>(047.3) | -7.6               | 4.8           | —              | +6000         | —            | —              | RNAV1                    |
| 004           | TF              | PLUTO               | —        | 352<br>(344.5) | -7.6               | 7.1           | —              | —             | —            | —              | RNAV1                    |
| 005           | TF              | KAIJI               | —        | 011<br>(003.0) | -7.6               | 7.6           | —              | —             | —            | —              | RNAV1                    |
| 006           | TF              | INTEL               | —        | 286<br>(278.4) | -7.6               | 11.9          | —              | +9000         | —            | —              | RNAV1                    |
| 007           | TF              | RAGOS               | —        | 295<br>(287.2) | -7.6               | 13.0          | —              | +13000        | —            | —              | RNAV1                    |
| 008           | TF              | BEKLA               | —        | 279<br>(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<br>(330.0) | -7.6               | —             | —              | +700          | —            | —              | RNAV1                    |
| 002           | DF              | TORAM               | —        | —              | -7.6               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | PLUTO               | —        | 098<br>(090.7) | -7.6               | 6.0           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | KAIJI               | —        | 011<br>(003.0) | -7.6               | 7.6           | —              | —             | —            | —              | RNAV1                    |
| 005           | TF              | INTEL               | —        | 286<br>(278.4) | -7.6               | 11.9          | —              | +9000         | —            | —              | RNAV1                    |
| 006           | TF              | RAGOS               | —        | 295<br>(287.2) | -7.6               | 13.0          | —              | +13000        | —            | —              | RNAV1                    |
| 007           | TF              | BEKLA               | —        | 279<br>(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:NR004(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)

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

CHANGE : PROC renamed. VAR. RTE after KAMAT.



## 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

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                    |

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

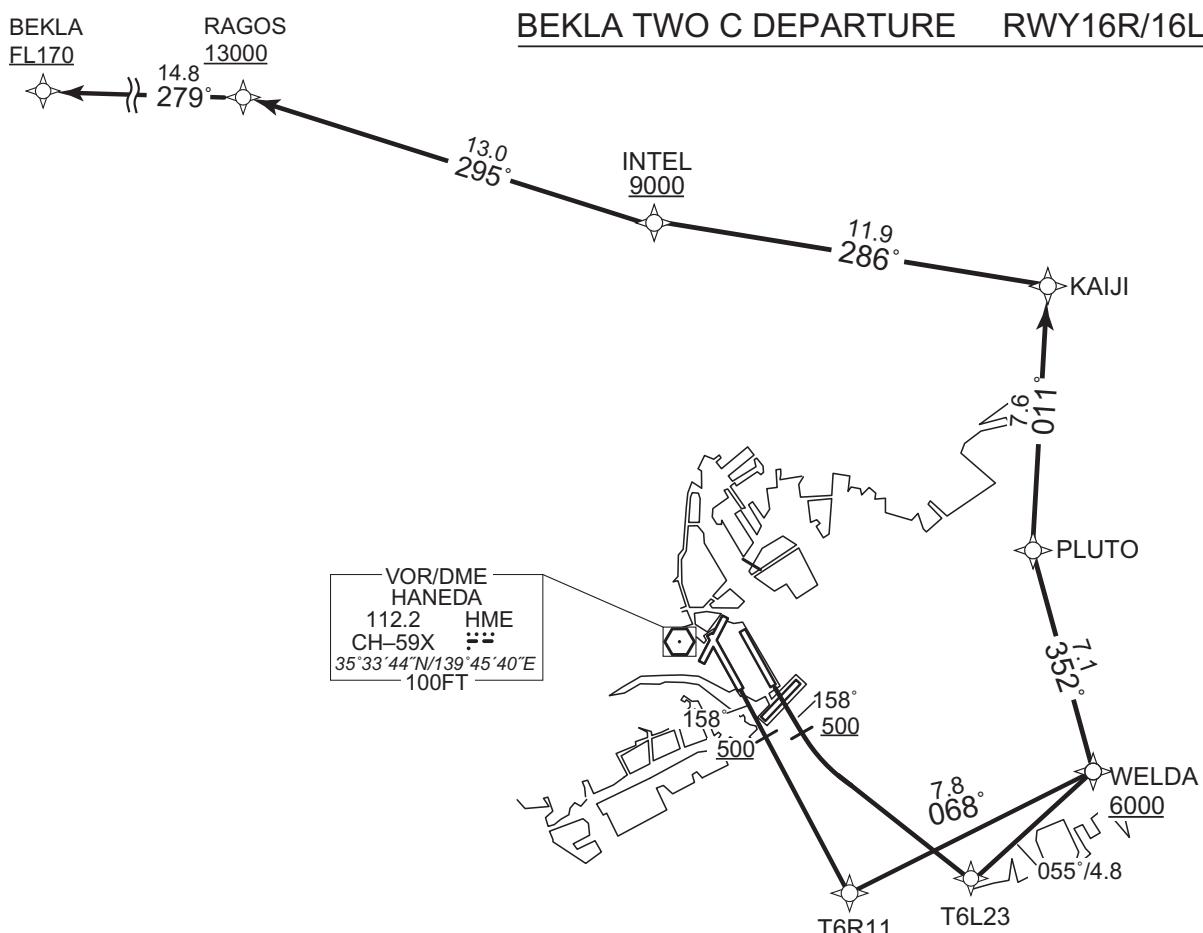
RJTT/TOKYO INTL

RNAV SID

| BEKLA TWO C DEPARTURE  |  | RNAV1        |
|--|--|--------------|
| Note 1) DME/DME/IRU or GNSS required.<br>※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.<br>2) RADAR service required. |  |              |
| DME GAP  | RWY16R : DER - 1.2NM FM DER<br>RWY16L : DER - 1.0NM FM DER<br>RWY34R : DER - 1.0NM FM DER<br>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.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

BEKLA TWO C DEPARTURE RWY34R/05



## STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA 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 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 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.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA 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              | 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              | 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.

## 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                    |

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 | PLUTO               | 353632.1N / 1395736.8E |
| BEKLA               | 354958.7N / 1391009.5E | RAGOS               | 354942.2N / 1392821.2E |
| EDOJO               | 354214.0N / 1395129.9E | T6L23               | 352627.6N / 1395539.1E |
| INTEL               | 354553.0N / 1394340.2E | T6R11               | 352552.5N / 1395137.2E |
| KAIJI               | 354409.6N / 1395806.6E | TT501               | 353328.7N / 1395029.9E |
| KAMAT               | 353353.6N / 1394148.9E | TT502               | 353224.4N / 1395720.7E |
| LAYER               | 353925.4N / 1392829.5E | TT503               | 352828.0N / 1394840.4E |
| LOCUP               | 352718.8N / 1395608.5E | WELDA               | 352941.4N / 1395956.7E |
| OHEDO               | 354523.4N / 1394838.6E |                     |                        |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

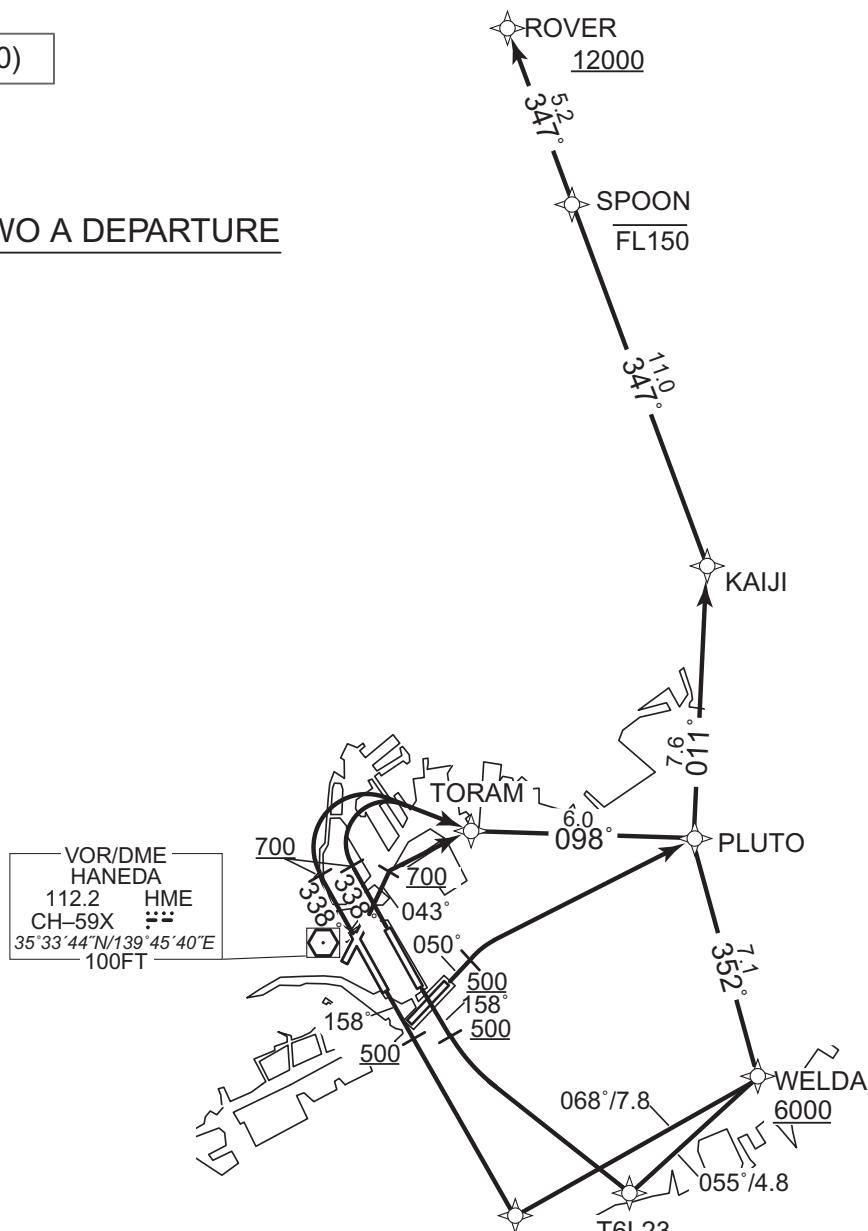
RNAV SID

| ROVER TWO A DEPARTURE  |   | RNAV1  |
|--|---|--|
| Note 1) DME/DME/IRU or GNSS required.<br>※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.<br>2) RADAR service required. |   |  |
| DME GAP  | RWY16R: DER - 1.2NM FM DER<br>RWY16L: DER - 1.0NM FM DER<br>RWY34R: DER - 1.0NM FM DER<br>RWY34L: DER - 0.5NM FM DER<br>RWY04: DER - 1.7NM FM DER | Critical DME   |
| Inappropriate Navaids  | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1  | RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11<br>PQD 6.6NM to KAIJI - KAIJI<br>RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23<br>PQD 6.6NM to KAIJI - KAIJI<br>RWY34R : HME 1.0NM FM DER - 1.1NM to PLUTO<br>SND TORAM - 3.1NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI<br>RWY34L : HME 0.5NM FM DER - 1.1NM to PLUTO<br>SND TORAM - 3.1NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI<br>RWY04 : HME 1.7NM FM DER - 1.1NM to PLUTO<br>SND 2.2NM to TORAM - 3.1NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI<br>RWY05 : HME DER - 2.2NM to PLUTO<br>PQD 6.6NM to KAIJI - KAIJI |

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<br>(042.4) | -7.6               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | PLUTO               | —        | —              | -7.6               | —             | R              | —             | —            | —              | RNAV1                    |
| 003           | TF              | KAIJI               | —        | 011<br>(003.0) | -7.6               | 7.6           | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | SPOON               | —        | 347<br>(339.2) | -7.6               | 11.0          | —              | -FL150        | —            | —              | RNAV1                    |
| 005           | TF              | ROVER               | —        | 347<br>(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

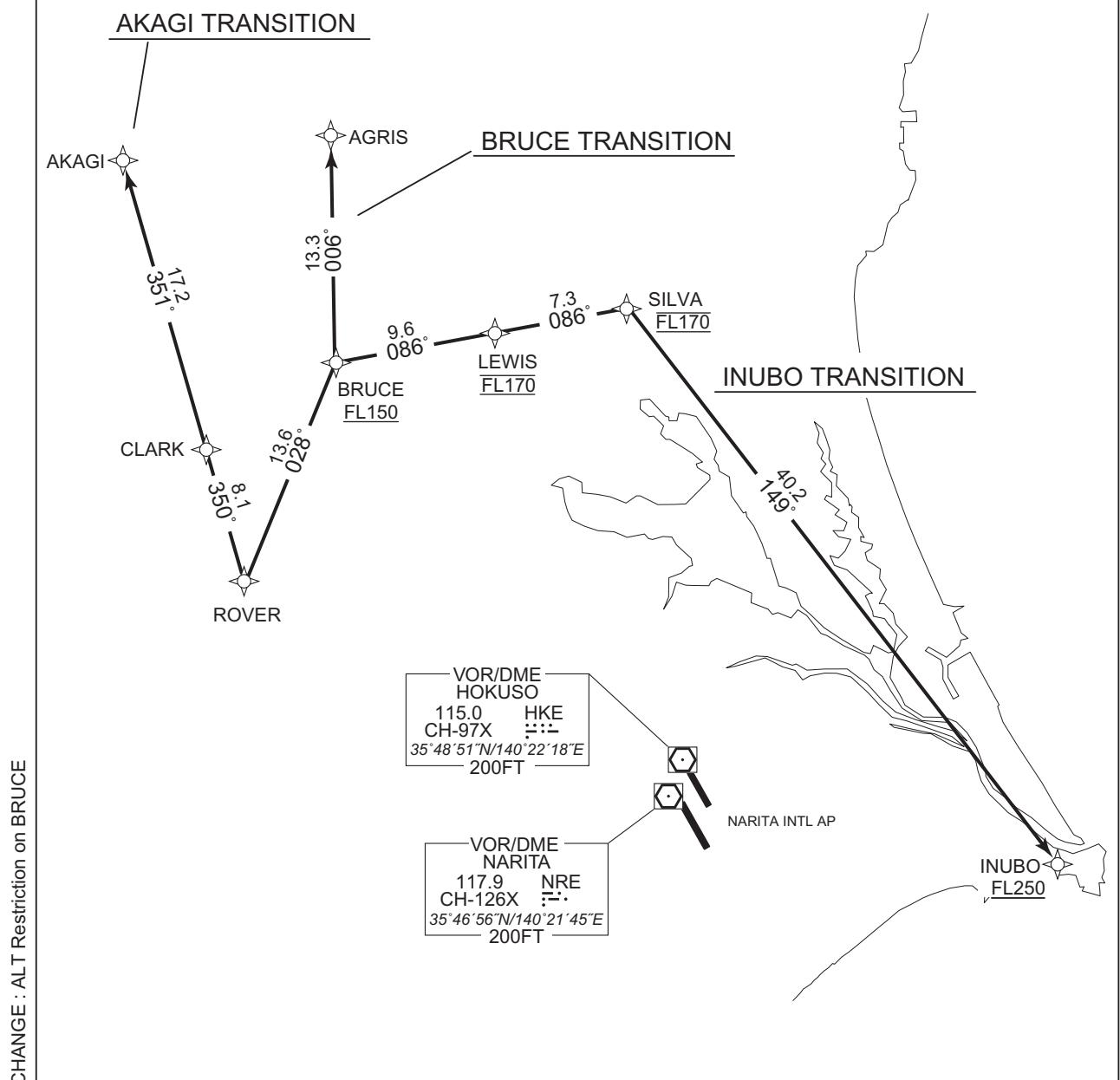
| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA               | 353848.8N / 1395041.9E | ROVER               | 355918.3N / 1395059.3E |
| DAMBO               | 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.<br>※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.<br>2) RADAR service required. | Critical DME | RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11<br>RWY16L : HME 1.0NM FM DER - 2.4NM to T6L21<br>RWY34R : HME 1.0NM FM DER - 2.5NM to TT502<br>RWY34L : HME 0.5NM FM DER - 2.5NM to TT502<br>RWY04 : HME 1.7NM FM DER - 2.5NM to TT502<br>RWY05 : HME DER - 2.7NM to TT502 |
| DME GAP<br><br>RWY16R:DER - 1.2NM FM DER<br>RWY16L:DER - 1.0NM FM DER<br>RWY34R:DER - 1.0NM FM DER<br>RWY34L:DER - 0.5NM FM DER<br>RWY04:DER - 1.7NM FM DER  |              |   |
| Inappropriate Navaids<br><br>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<br>(150.0) | -7.6               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | T6R11               | —        | —              | -7.6               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | VAMOS               | —        | 207<br>(199.5) | -7.6               | 14.5          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | UTIBO               | —        | 165<br>(157.0) | -7.6               | 16.8          | —              | 6000          | —            | —              | RNAV1                    |
| 005           | TF              | RUTAS               | —        | 116<br>(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<br>(150.0) | -7.6               | —             | —              | +500          | —            | —              | RNAV1                    |
| 002           | DF              | T6L21               | —        | —              | -7.6               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | VAMOS               | —        | 208<br>(200.7) | -7.6               | 15.4          | —              | —             | —            | —              | RNAV1                    |
| 004           | TF              | UTIBO               | —        | 165<br>(157.0) | -7.6               | 16.8          | —              | 6000          | —            | —              | RNAV1                    |
| 005           | TF              | RUTAS               | —        | 116<br>(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<br>(330.0) | -7.6               | –             | –              | +700          | –            | –              | RNAV1                    |
| 002           | DF              | TT502               | –        | –              | -7.6               | –             | R              | –             | –            | –              | RNAV1                    |
| 003           | TF              | LOCUP               | –        | 199<br>(190.9) | -7.6               | 5.2           | –              | +5000         | –            | –              | RNAV1                    |
| 004           | TF              | VAMOS               | –        | 217<br>(209.5) | -7.6               | 17.3          | –              | –             | –            | –              | RNAV1                    |
| 005           | TF              | UTIBO               | –        | 165<br>(157.0) | -7.6               | 16.8          | –              | 6000          | –            | –              | RNAV1                    |
| 006           | TF              | RUTAS               | –        | 116<br>(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<br>(034.9) | -7.6               | –             | –              | +700          | –            | –              | RNAV1                    |
| 002           | DF              | TT502               | –        | –              | -7.6               | –             | R              | –             | –            | –              | RNAV1                    |
| 003           | TF              | LOCUP               | –        | 199<br>(190.9) | -7.6               | 5.2           | –              | +5000         | –            | –              | RNAV1                    |
| 004           | TF              | VAMOS               | –        | 217<br>(209.5) | -7.6               | 17.3          | –              | –             | –            | –              | RNAV1                    |
| 005           | TF              | UTIBO               | –        | 165<br>(157.0) | -7.6               | 16.8          | –              | 6000          | –            | –              | RNAV1                    |
| 006           | TF              | RUTAS               | –        | 116<br>(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 |

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**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.

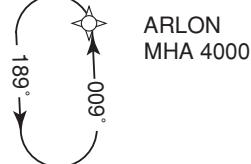
2) RADAR service required.

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  
120°

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  
5.0 069°  
9.0 114°  
7.0 090°  
7.0 068°  
15.9 068°  
36.3 095°

OSHIMA (XAC)  
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°

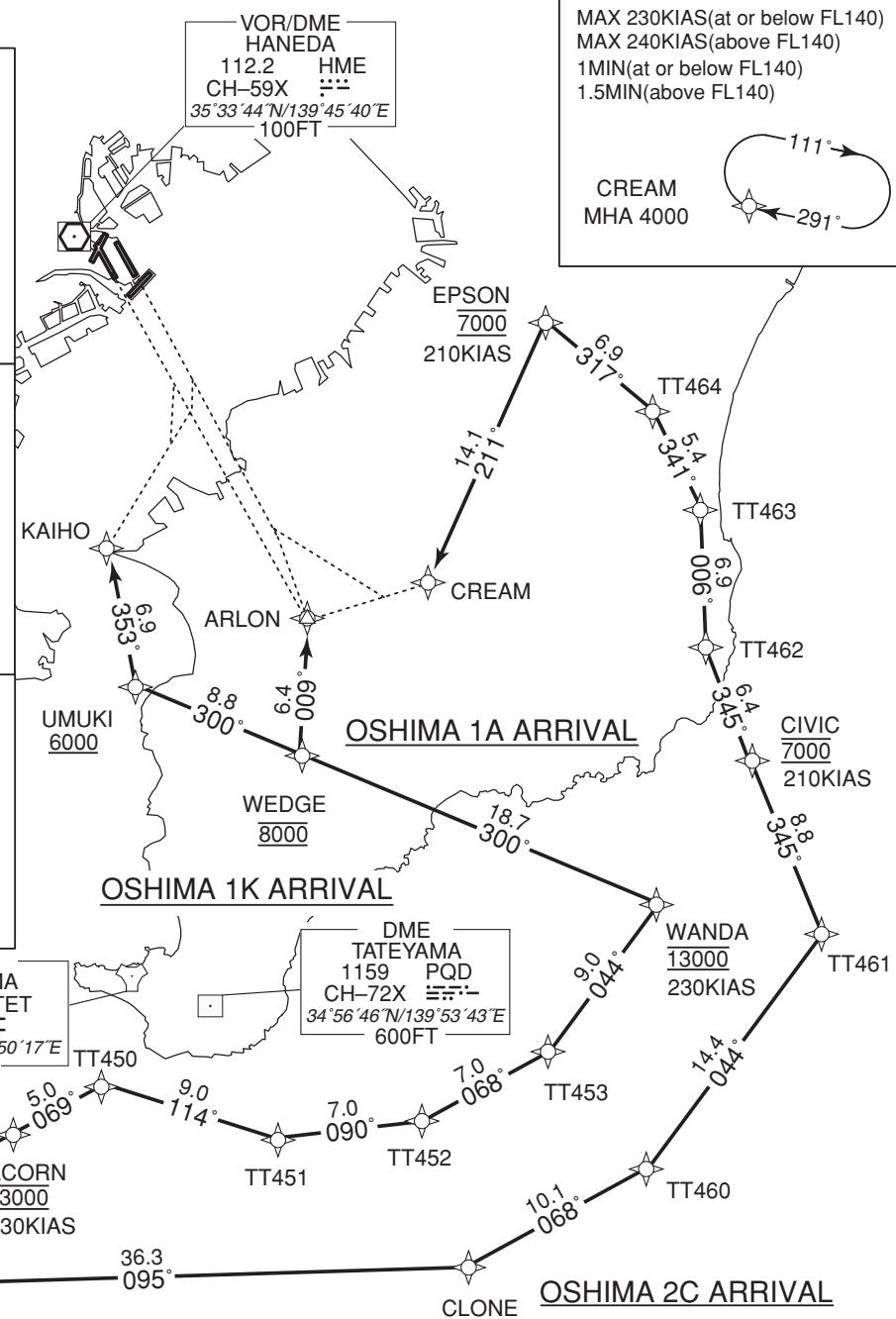
VOR/DME  
HANEDA  
112.2 HME  
CH-59X  
35°33'44"N/139°45'40"E  
100FT

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

111°  
291°



CHANGE : New PROC

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

CIVIC MHA 4000

165°  
345°

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

ACORN MHA 5000

248°  
068°

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL

From XAC, to ACORN 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              | ACORN               | —        | 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)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ARLON               | 009 (001.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1K ARRIVAL

From XAC, to ACORN 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              | ACORN               | -        | 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2C ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | XAC                 | -        | -             | -7.5               | -             | -              | -             | -            | -              | 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| ACORN               | 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  
 $173^{\circ}$   
 $353^{\circ}$

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

ARLON  
MHA 4000  
 $600^{\circ}$   
 $68^{\circ}$

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

WEDGE  
MHA 4000  
 $300^{\circ}$   
 $120^{\circ}$

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

AKSEL  
MHA 5000  
 $039^{\circ}$   
 $219^{\circ}$

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

353°  
6.9  
300°  
8.8  
6.4  
009°  
WEDGE  
8000  
20.2  
300°  
AKSEL1A ARRIVAL

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

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  
044°  
14.4  
044°  
TT454  
090°  
7.6  
068°  
TT455  
14.8  
085°  
CLONE  
10.1  
068°

AKSEL  
12000 (for AKSEL 1A ARRIVAL, AKSEL 1K ARRIVAL)  
230KIAS (for AKSEL 1A ARRIVAL, AKSEL 1K ARRIVAL)

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

CIVIC  
MHA 4000  
 $165^{\circ}$   
 $345^{\circ}$

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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ARLON               | 009 (001.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)          | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)          | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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

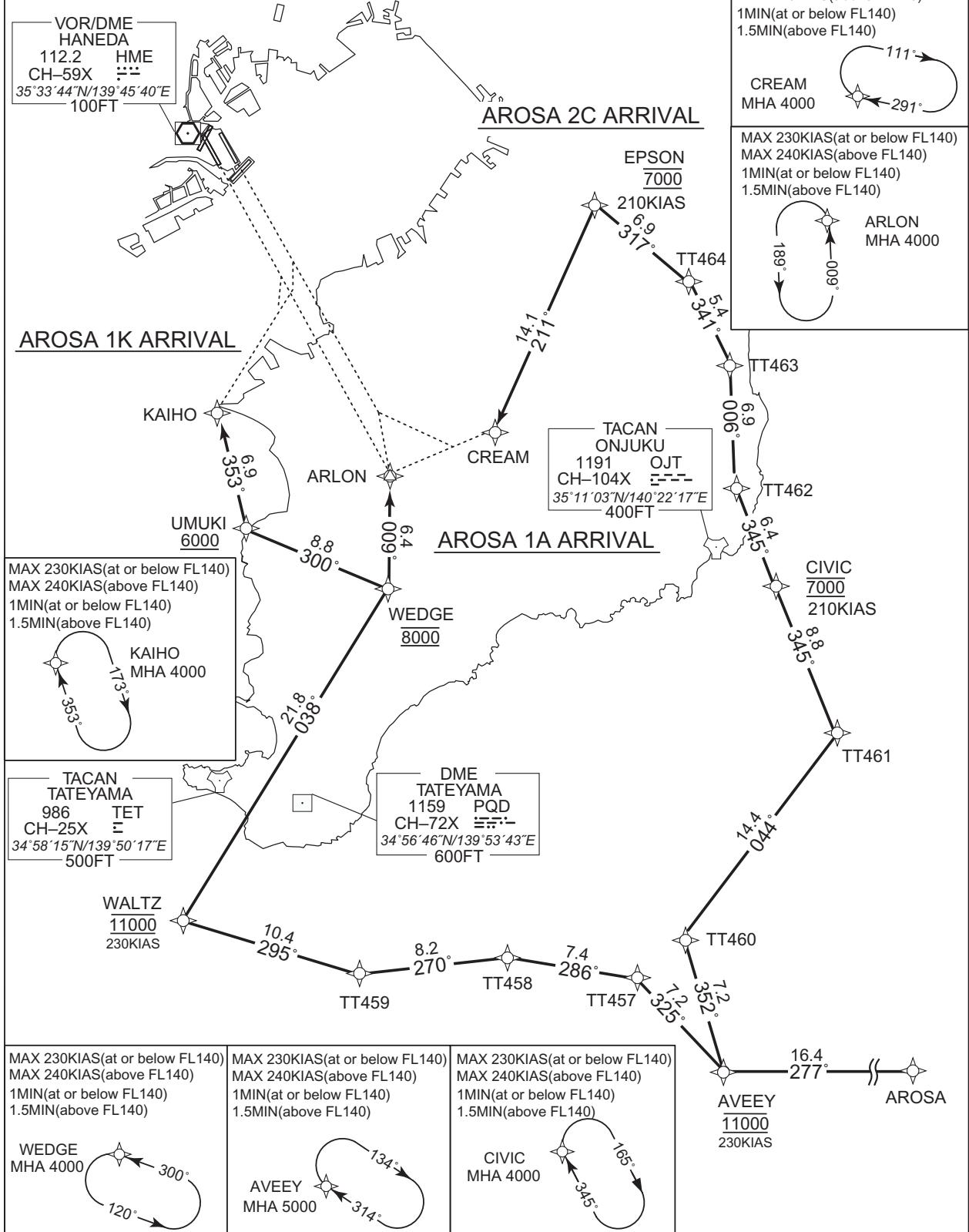
AROSA 1A ARRIVAL / AROSA 1K ARRIVAL  
AROSA 2C ARRIVAL

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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ARLON               | 009 (001.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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.

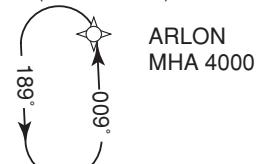
2) RADAR service required.

VAR 8° W(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)



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

DME  
MORIYA  
1174 SND  
CH-87X ::::  
35°56'05"N/139°58'53"E  
100FT

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

GODIN

CHIPS  
13000

COLOR  
11000

VOR/DME  
HOKUSO  
115.0 HKE  
CH-97X ::::  
35°48'51"N/140°22'18"E  
200FT

NARITA INTL AP

VOR/DME  
NARITA  
117.9 NRE  
CH-126X ::::  
35°46'56"N/140°21'45"E  
200FT

COACH  
MHA 4000

COACH  
8000

210KIAS

TT465

TT466

TT467

TT468

TT469

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 TT469, 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              | TT469               | -        | 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)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ARLON               | 009 (001.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## 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 TT469, 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              | TT469               | -        | 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)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : New PROC

## 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)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| 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 | TT469               | 351217.9N / 1400534.7E |
| EDDIE               | 351447.4N / 1402140.9E | UMUKI               | 351219.1N / 1394849.2E |
| GODIN               | 362425.3N / 1401655.9E |                     |                        |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

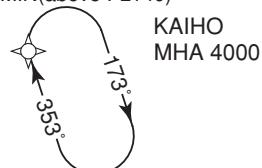
POLIX 2A ARRIVAL / POLIX 2K ARRIVAL  
POLIX 1C ARRIVAL

RNAV 1

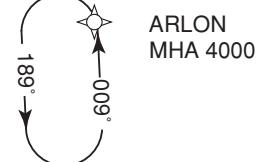
- Note 1 ) DME/DME/IRU or GNSS required.  
2 ) RADAR service required.

VAR 8° W(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)



CHIPS  
13000 9.5 279° POLIX  
FL150

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

POLIX  
MHA 11000 310° 130°

VOR/DME  
HOKUSO  
115.0 CH-97X HKE  
35°48'51"N/140°22'18"E  
200FT

NARITA INTL AP  
VOR/DME  
NARITA  
117.9 CH-126X NRE  
35°46'56"N/140°21'45"E  
200FT

COPSE  
14.3 188°  
COACH  
8000 210KIAS  
9.4 185°  
TT465  
8.0 187°  
TT466  
1.6 161°  
TT467  
1.6 161°  
EDDIE  
8000 210KIAS  
9.8 149°  
9.4 149°

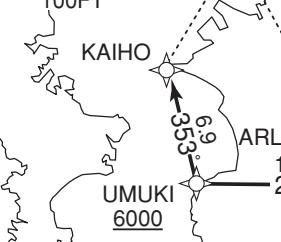
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

COLOR  
MHA 8000 017° 197°

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

COACH  
MHA 4000 9.5° 185°

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



POLIX 1C ARRIVAL

POLIX 2A ARRIVAL

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

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

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

CREAM  
MHA 4000 111° 291°

CHANGE : New PROC

## 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 TT469, 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              | TT469               | -        | 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)<br>1.5(+14001) | -                      | L              | 11000                 | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ARLON               | 009 (001.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## 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 TT469, 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              | TT469               | -        | 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 | POLIX               | 310 (302.3)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 11000                 | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : New PROC

## 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)<br>1.5(+14001) | —                      | L              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 8000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| 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 | TT469               | 351217.9N / 1400534.7E |
| EDDIE               | 351447.4N / 1402140.9E | UMUKI               | 351219.1N / 1394849.2E |
| KAIHO               | 351857.8N / 1394642.4E |                     |                        |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

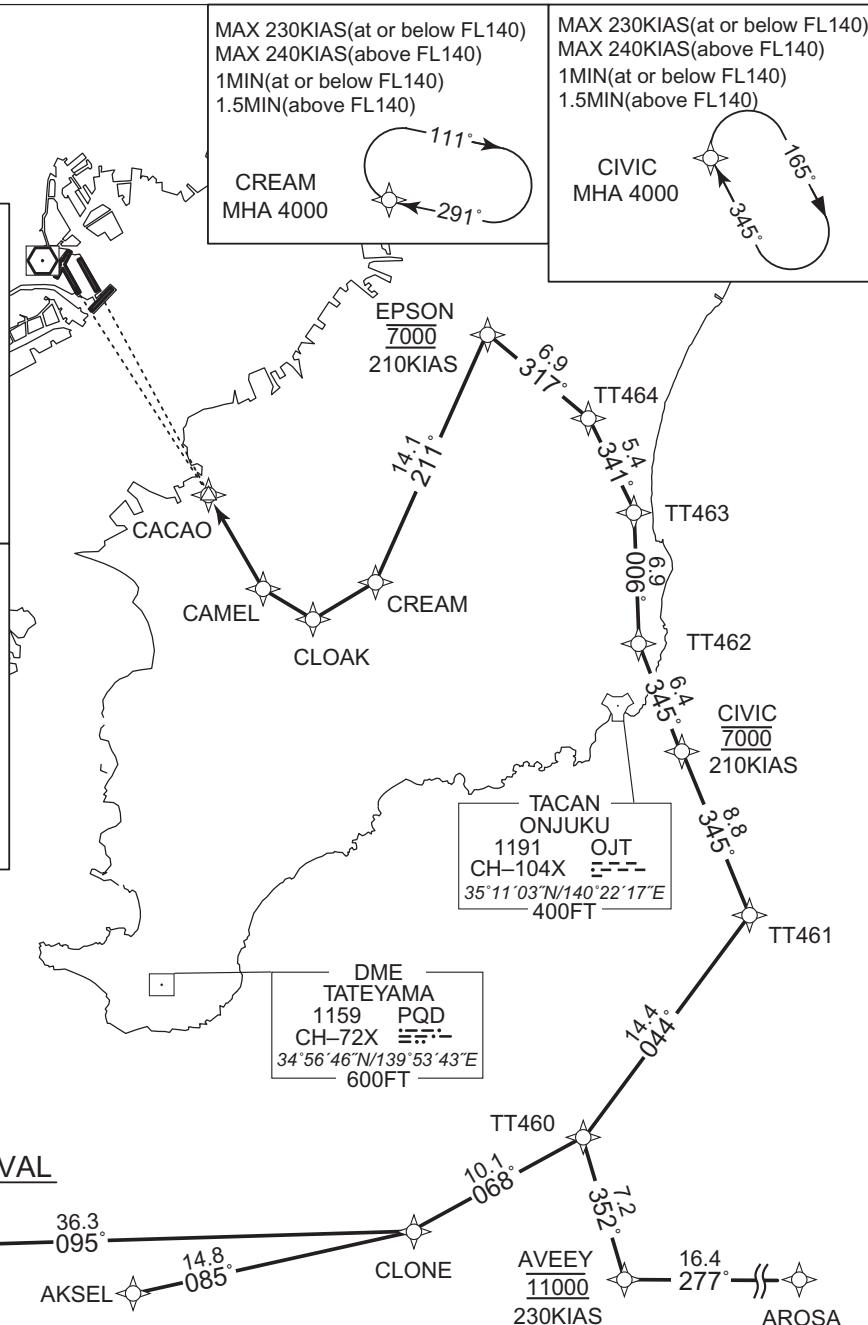
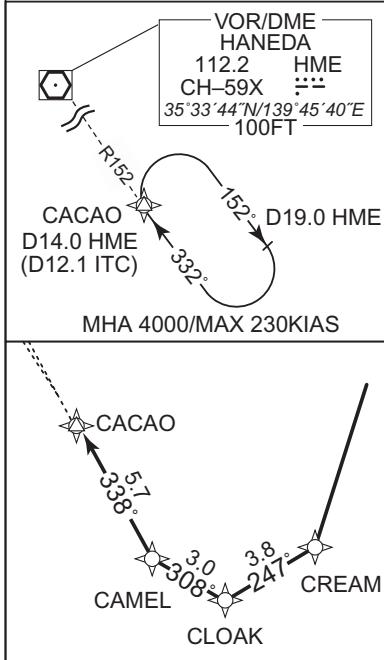
RNAV STAR RWY34R/34L

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)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-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)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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

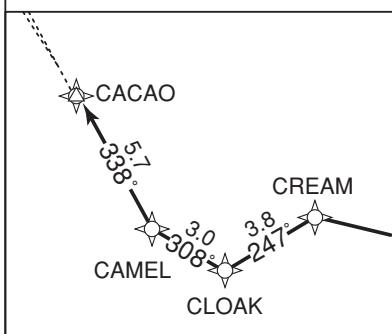
RNAV 1

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

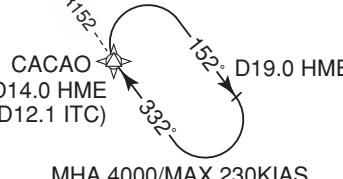
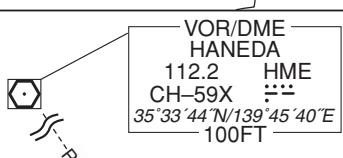
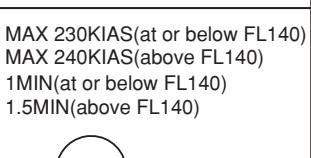
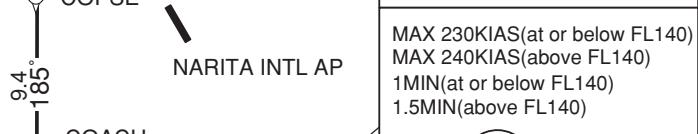
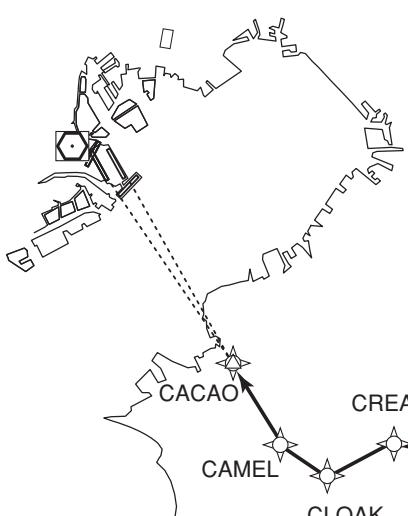
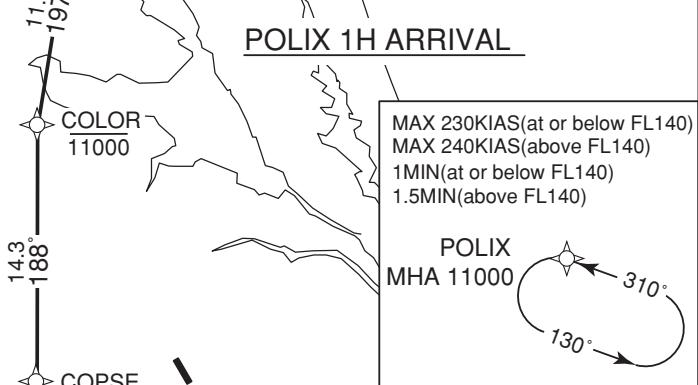
2 ) RADAR service required.

VAR 8° W(2019)

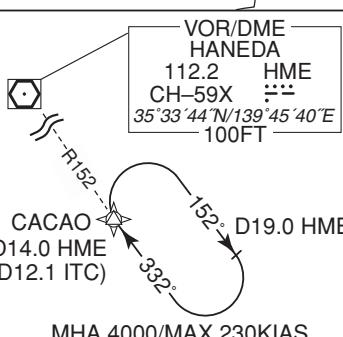
GODIN 1H ARRIVAL



POLIX 1H ARRIVAL



CHANGE : New PROC



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)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | L              | 11000                 | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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

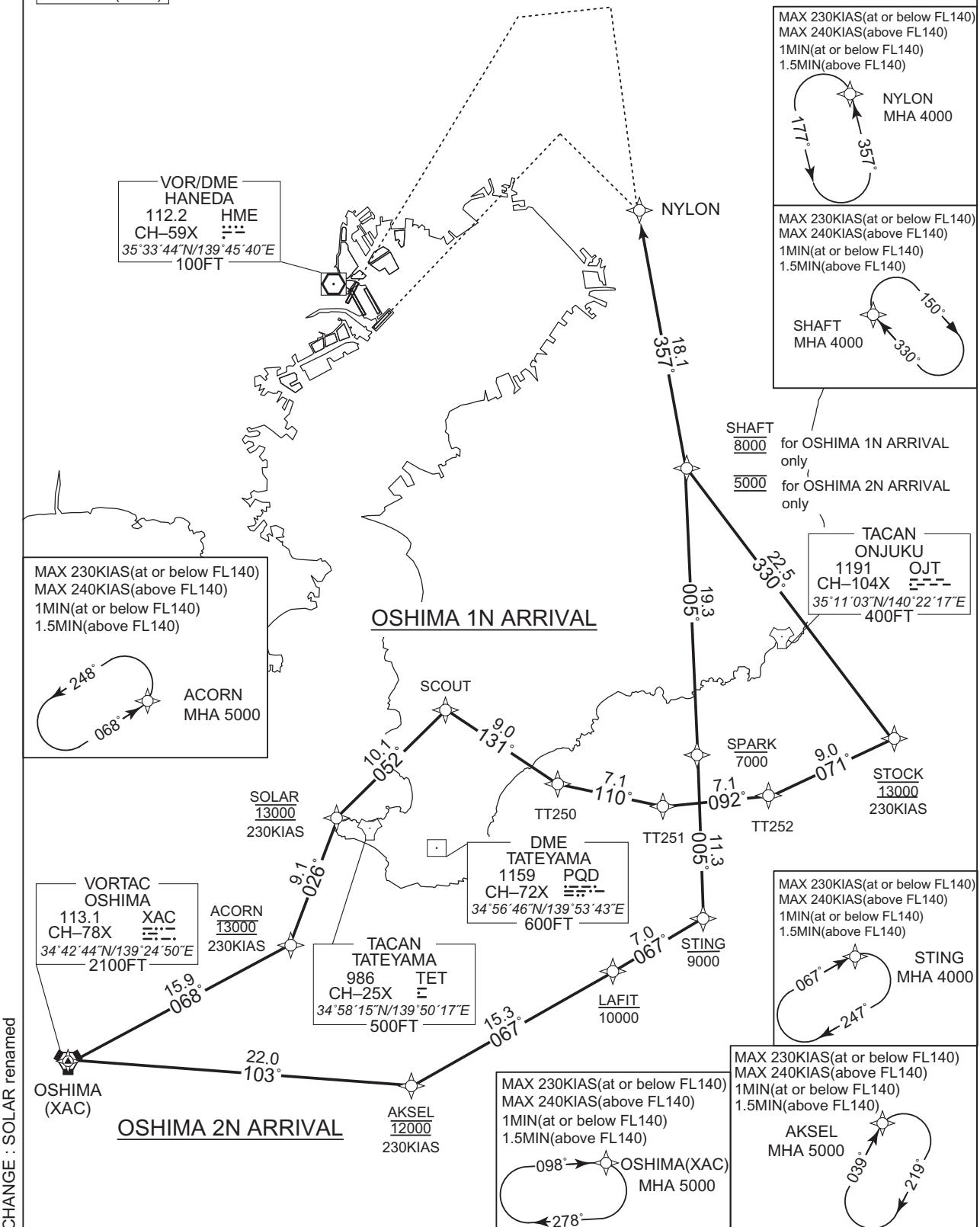
OSHIMA 1N ARRIVAL  
OSHIMA 2N ARRIVAL

RNAV STAR RWY22/23

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 ACORN 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              | ACORN               | —        | 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)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : SOLAR renamed

## 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | AKSEL               | 039 (031.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

Waypoint Coordinates

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

CHANGE : SOLAR renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23



CHANGE : SOLAR renamed

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL

From XAC, to ACORN 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              | ACORN               | -        | 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : SOLAR renamed

## 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | AKSEL               | 039 (031.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

Waypoint Coordinates

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

CHANGE : SOLAR renamed

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

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  
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

SPARK  
7000

STOWE  
12000

230KIAS

TT253

7.6

092°

TT254

095°

TT255

098°

TT256

101°

TT257

104°

TT258

107°

TT259

110°

TT260

113°

TT261

116°

TT262

119°

TT263

122°

TT264

125°

TT265

128°

TT266

131°

TT267

134°

TT268

137°

TT269

140°

TT270

143°

TT271

146°

TT272

149°

TT273

152°

TT274

155°

TT275

158°

TT276

161°

TT277

164°

TT278

167°

TT279

170°

TT280

173°

TT281

176°

TT282

179°

TT283

182°

TT284

185°

TT285

188°

TT286

191°

TT287

194°

TT288

197°

TT289

200°

TT290

203°

TT291

206°

TT292

209°

TT293

212°

TT294

215°

TT295

218°

TT296

221°

TT297

224°

TT298

227°

TT299

230°

TT300

233°

TT301

236°

TT302

240°

TT303

243°

TT304

246°

TT305

250°

TT306

253°

TT307

256°

TT308

260°

TT309

263°

TT310

266°

TT311

270°

TT312

273°

TT313

276°

TT314

280°

TT315

283°

TT316

286°

TT317

290°

TT318

293°

TT319

296°

TT320

299°

TT321

302°

TT322

305°

TT323

308°

TT324

311°

TT325

314°

TT326

317°

TT327

320°

TT328

323°

TT329

326°

TT330

329°

TT331

332°

TT332

335°

TT333

338°

TT334

341°

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347°

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TT338

353°

TT339

356°

TT340

359°

TT341

362°

TT342

365°

TT343

368°

TT344

371°

TT345

374°

TT346

377°

TT347

380°

TT348

383°

TT349

386°

TT350

389°

TT351

392°

TT352

395°

TT353

398°

TT354

401°

TT355

404°

TT356

407°

TT357

410°

TT358

413°

TT359

416°

TT360

419°

TT361

422°

TT362

425°

TT363

428°

TT364

431°

TT365

434°

TT366

437°

TT367

440°

TT368

443°

TT369

446°

TT370

449°

TT371

452°

TT372

455°

TT373

458°

## 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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

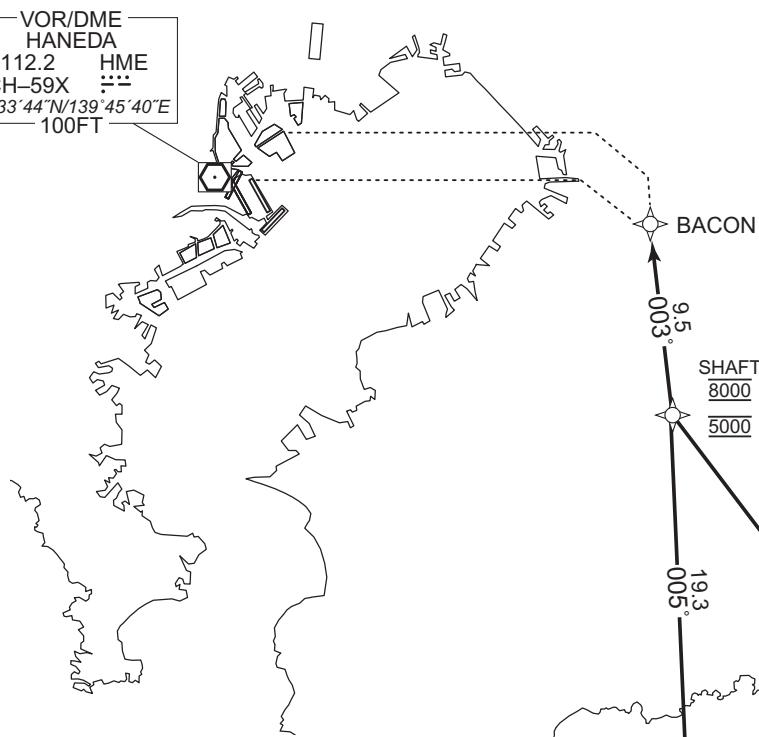
RNAV 1

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

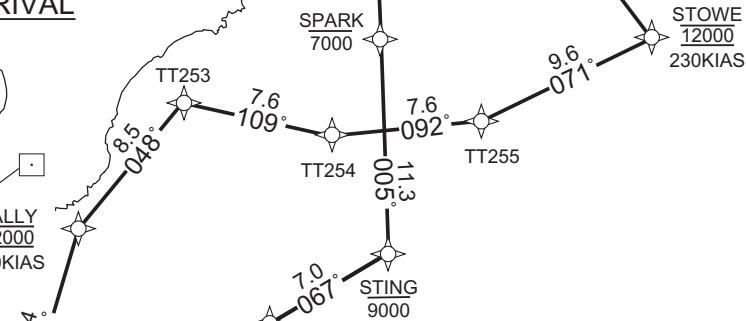
TACAN  
ONJUKU  
1191 OJT  
CH-104X   
35°11'03"N/140°22'17"E  
400FT

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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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

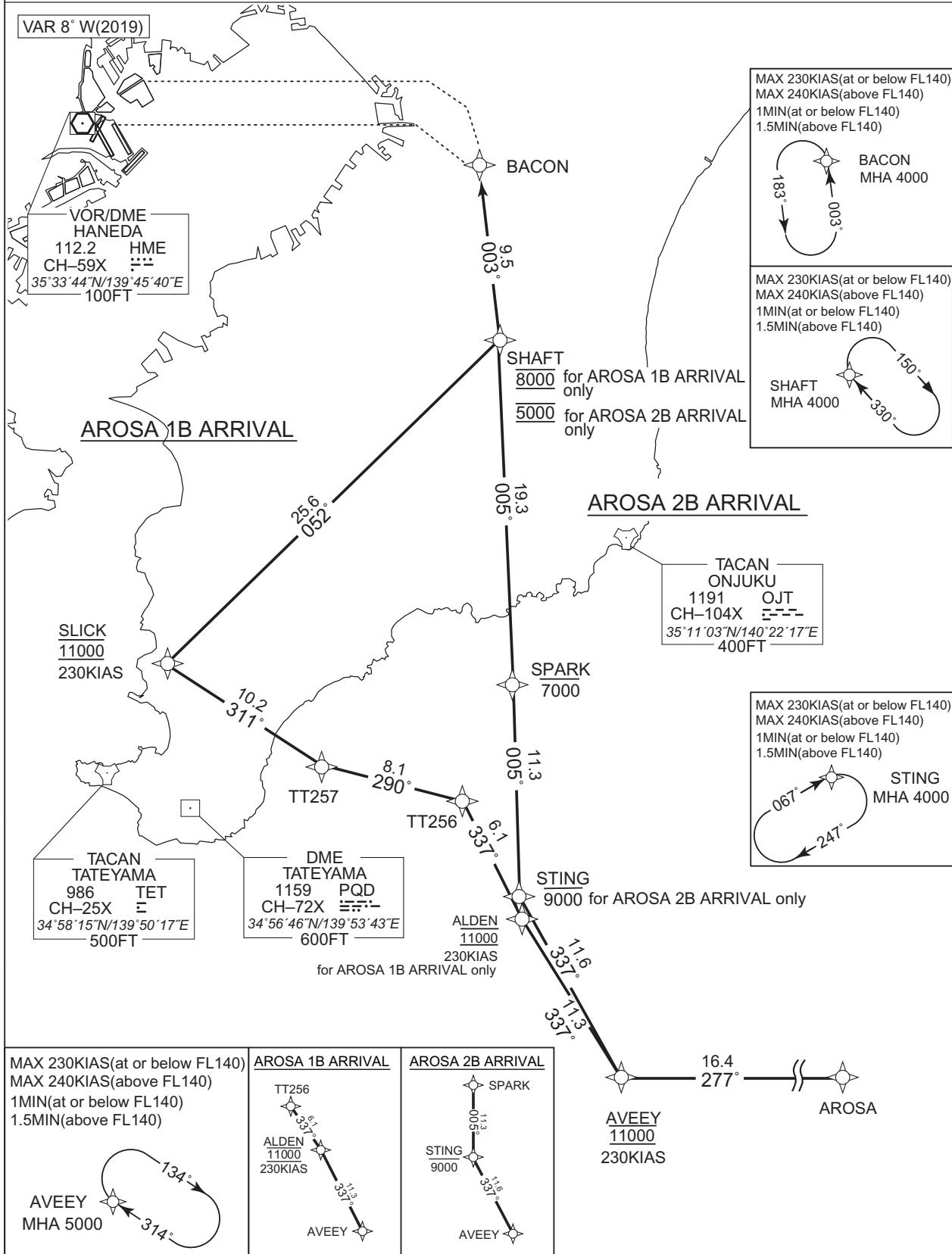
RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL  
AROSA 2B ARRIVAL

RNAV 1

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



## 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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

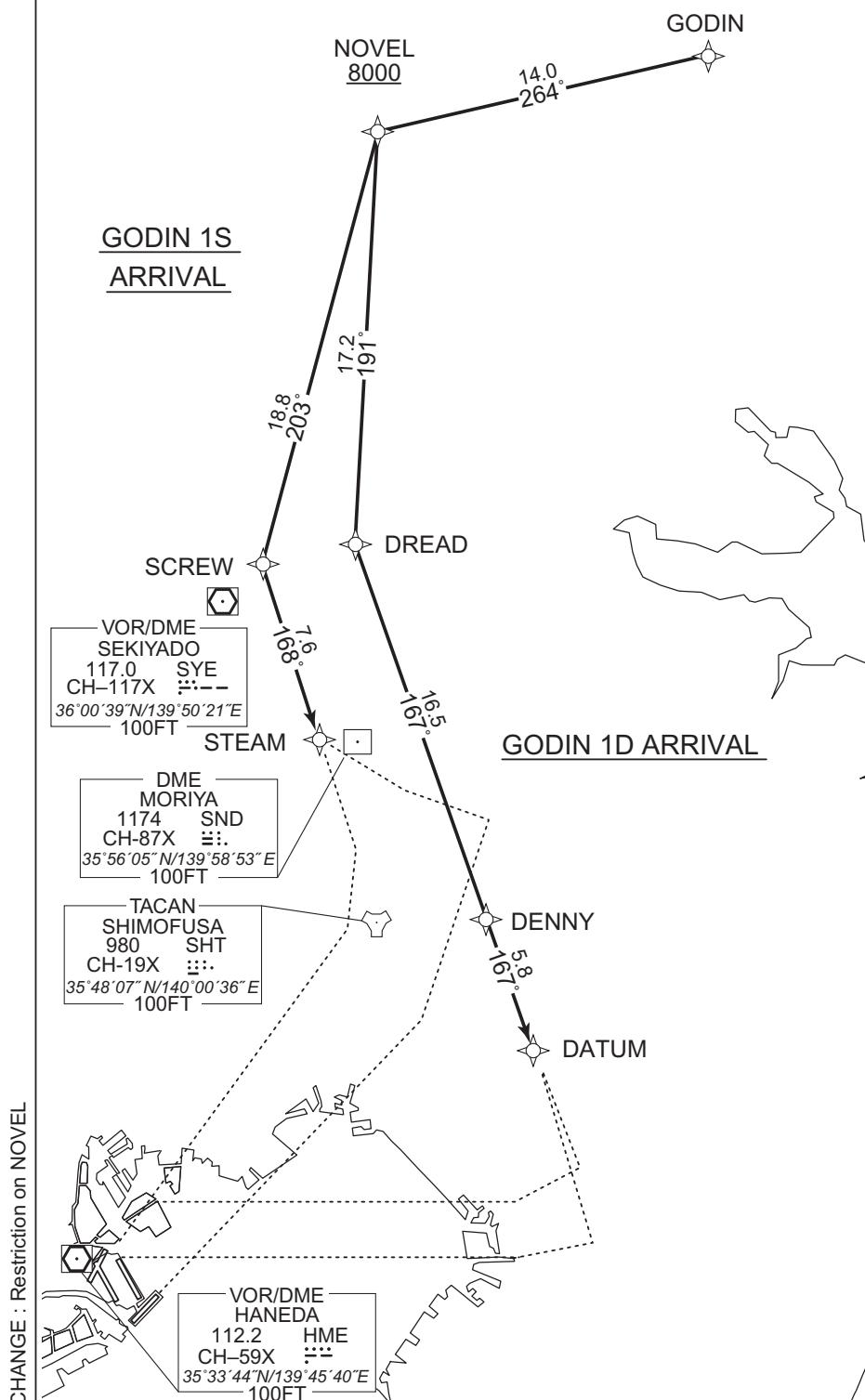
RNAV STAR RWY22/23

RNAV 1

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

2 ) RADAR service required.

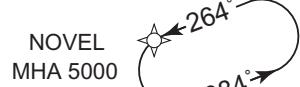
VAR 8° W(2019)



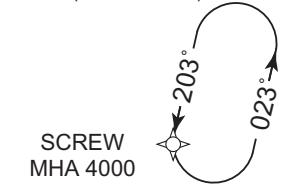
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



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



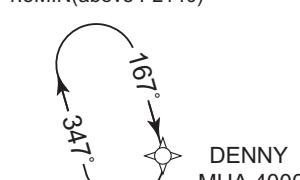
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)



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)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SCREW               | 203 (195.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | DREAD               | 191 (183.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | DENNY               | 167 (159.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)



POLIX FL150

POLIX 1D ARRIVAL

SCREW

DREAD

STEAM

VOR/DME  
SEKIYADO  
117.0 SYE  
CH-117X :::  
36°00'39"N/139°50'21"E  
100FT

DME  
MORIYA  
1174 SND  
CH-87X :::  
35°56'05"N/139°58'53"E  
100FT

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

CHANGE : Restriction on NOVEL

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)

SCREW MHA 4000

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

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

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

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

POLIX  
MHA 11000  
310°  
203°  
023°

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

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

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

NOVEL  
MHA 5000  
264°  
347°  
084°

RNAV STAR RWY22/23

## 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)<br>1.5(+14001) | -                      | L              | 11000                 | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | GODIN               | 197 (189.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SCREW               | 203 (195.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | L              | 11000                 | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | GODIN               | 197 (189.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 8000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | DREAD               | 191 (183.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | DENNY               | 167 (159.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)

SNARE  
MHA 4000

177°  
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)

NEURO  
MHA 4000

110°  
290°

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

ACORN  
MHA 5000

248°  
068°

NURSE 9000 210KIAS  
NIGEL 6000  
NEURO 6000  
NATTY 52° 252°  
SANDY T6L60  
SNARE 6000  
SOPPY 7000  
NUMAN 9000 210KIAS  
NORIK 59° 9000  
SPINE 84° 9000  
SCOPE 10000  
SHAFT 9000  
SCOUT 137°  
SOLAR 230KIAS 13000 for OSHIMA L ARRIVAL only  
TT250 110°  
TT251 7.1°  
TT252 092°  
STOCK 13000 230KIAS  
OSHIMA (XAC) 068°  
ACORN 026°

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<br>84°<br>SNOKE<br>13.4°<br>SHAFT<br>9000   |
| OSHIMA R ARRIVAL | NUMAN<br>9000<br>210KIAS<br>11.1°<br>T6R70<br>036°<br>SCOPE<br>10000  |
| OSHIMA L ARRIVAL | TT250 110°<br>TT251 7.1°<br>TT252 092°<br>STOCK 13000 230KIAS<br>SCOUT 137°<br>SOLAR 230KIAS 13000 for OSHIMA L ARRIVAL only<br>ACORN 068°<br>OSHIMA (XAC) 026° |

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL

From XAC, to ACORN, 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 T6L60, 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              | ACORN               | -        | 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              | T6L60               | -        | 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SPINE               | 348 (340.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SNARE               | 297 (289.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : New PROC

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA R ARRIVAL

From XAC, to ACORN, 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              | ACORN               | -        | 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 : Correction of misdescription (Waypoint Identifier of the row with Serial Number 006)

| 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NUMAN               | 360 (352.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NEURO               | 290 (282.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| ACORN               | 345028.8N / 1394146.7E | SOLAR               | 345909.2N / 1394518.5E |
| NATTY               | 355350.9N / 1394531.3E | SOPPY               | 354458.8N / 1400140.3E |
| NEURO               | 355727.6N / 1395441.3E | SPINE               | 354213.5N / 1401125.8E |
| NIGEL               | 355607.5N / 1395117.8E | STOCK               | 350438.7N / 1403002.9E |
| NORIK               | 355428.9N / 1401054.5E | T6L60               | 354838.2N / 1394838.4E |
| NUMAN               | 354714.4N / 1401204.9E | T6R70               | 353614.4N / 1401351.4E |
| NURSE               | 360939.3N / 1400153.3E | T6R71               | 360059.5N / 1401045.1E |
| SANDY               | 354917.5N / 1394402.8E | T6R72               | 360530.2N / 1400804.3E |
| SCOPE               | 352358.4N / 1400538.3E | 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 |
| SNARE               | 354731.1N / 1395238.1E | XAC                 | 344244.1N / 1392450.5E |
| SNOKE               | 353551.6N / 1401411.7E |                     |                        |

CHANGE : New PROC

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°

AKSEL L ARRIVAL  
AKSEL 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)

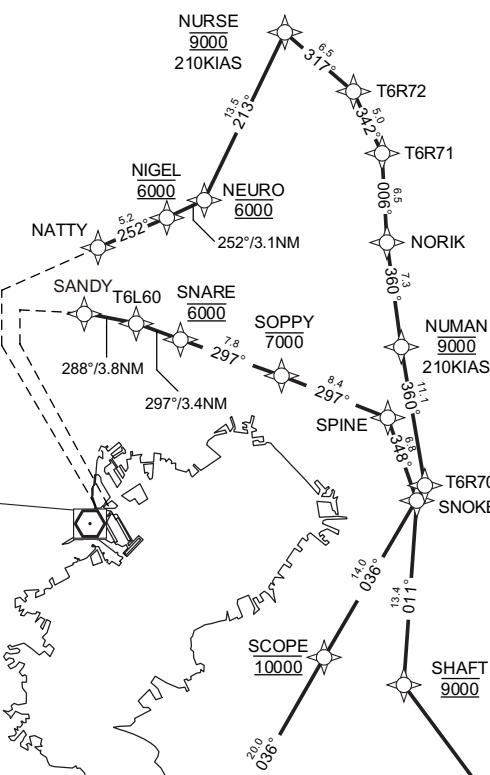
SHAFT  
MHA 4000  
150°  
330°

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

AKSEL L ARRIVAL

SPINE  
SNOKE  
134°  
111°  
071°  
330°  
SHAFT  
9000

AKSEL R ARRIVAL

NUMAN  
9000  
210KIAS  
360°  
111°  
T6R70  
140°  
036°  
SCOPE  
10000

CHANGE : New PROC

## 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 T6L60, 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              | T6L60               | –        | 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 | AKSEL               | 039 (031.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | R              | 5000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | R              | 4000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SPINE               | 348 (340.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | L              | 4000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SNARE               | 297 (289.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | R              | 4000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : New PROC

## 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)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NUMAN               | 360 (352.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NEURO               | 290 (282.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-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 | SNARE               | 354731.1N / 1395238.1E |
| NATTY               | 355350.9N / 1394531.3E | SNOKE               | 353551.6N / 1401411.7E |
| 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 | STOWE               | 350325.9N / 1403111.4E |
| NUMAN               | 354714.4N / 1401204.9E | T6L60               | 354838.2N / 1394838.4E |
| NURSE               | 360939.3N / 1400153.3E | T6R70               | 353614.4N / 1401351.4E |
| SALLY               | 345333.9N / 1395540.1E | T6R71               | 360059.5N / 1401045.1E |
| SANDY               | 354917.5N / 1394402.8E | T6R72               | 360530.2N / 1400804.3E |
| SCOPE               | 352358.4N / 1400538.3E | TT253               | 350001.4N / 1400224.6E |
| SCOUT               | 350624.1N / 1395356.8E | TT254               | 345826.5N / 1401129.4E |
| SHAFT               | 352227.4N / 1401313.3E | TT255               | 345910.9N / 1402041.4E |

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°

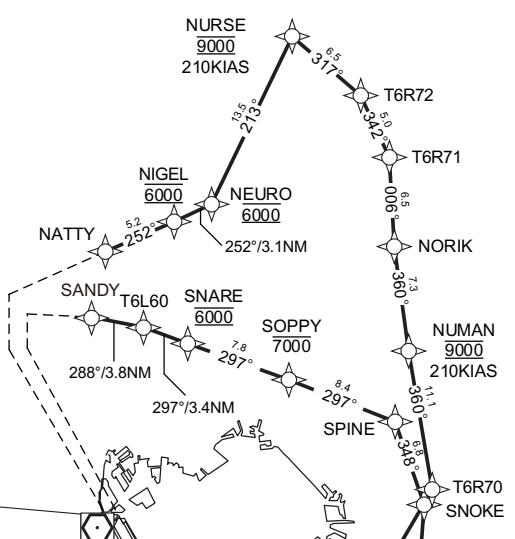
AROSA L ARRIVAL

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

AROSA R ARRIVAL

NUMAN  
9000  
210KIAS  
096°  
111°  
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 : New PROC

## 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 T6L60, 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              | T6L60               | -        | 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SPINE               | 348 (340.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SNARE               | 297 (289.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : New PROC

## 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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NUMAN               | 360 (352.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | L              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NEURO               | 290 (282.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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 | SHAFT               | 352227.4N / 1401313.3E |
| AROSA               | 344201.7N / 1404157.3E | SLICK               | 350412.7N / 1395120.0E |
| AVEEY               | 344155.9N / 1402158.0E | SNARE               | 354731.1N / 1395238.1E |
| NATTY               | 355350.9N / 1394531.3E | SNOKE               | 353551.6N / 1401411.7E |
| 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 | T6L60               | 354838.2N / 1394838.4E |
| NUMAN               | 354714.4N / 1401204.9E | T6R70               | 353614.4N / 1401351.4E |
| NURSE               | 360939.3N / 1400153.3E | T6R71               | 360059.5N / 1401045.1E |
| SANDY               | 354917.5N / 1394402.8E | T6R72               | 360530.2N / 1400804.3E |
| SCOPE               | 352358.4N / 1400538.3E | TT256               | 345655.4N / 1401122.9E |
| SCOUT               | 350624.1N / 1395356.8E | TT257               | 345838.5N / 1400146.6E |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

GODIN L ARRIVAL  
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

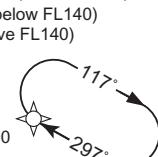
RNAV 1

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

VAR 8° W(2019)

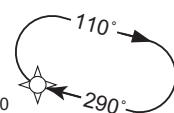
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

SNARE  
MHA 4000



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

NEURO  
MHA 4000



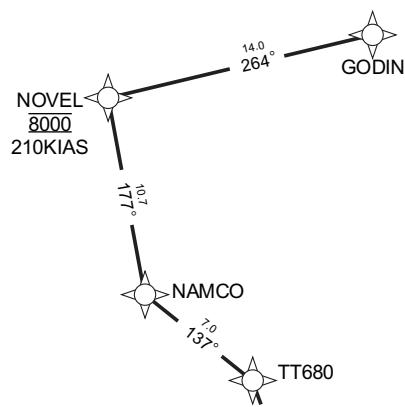
MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

NOVEL  
MHA 5000

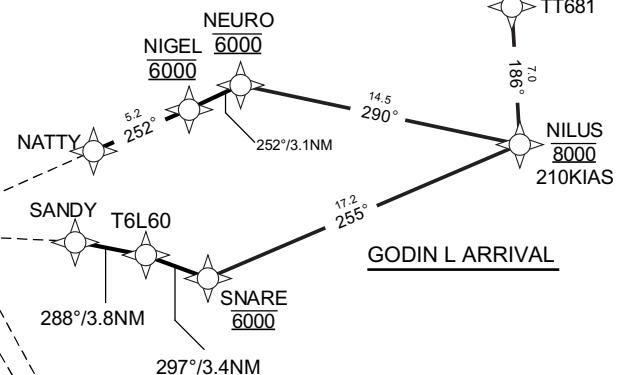


MAX 230KIAS(at or below FL140)  
MAX 240KIAS(above FL140)  
1MIN(at or below FL140)  
1.5MIN(above FL140)

GODIN  
MHA 8000



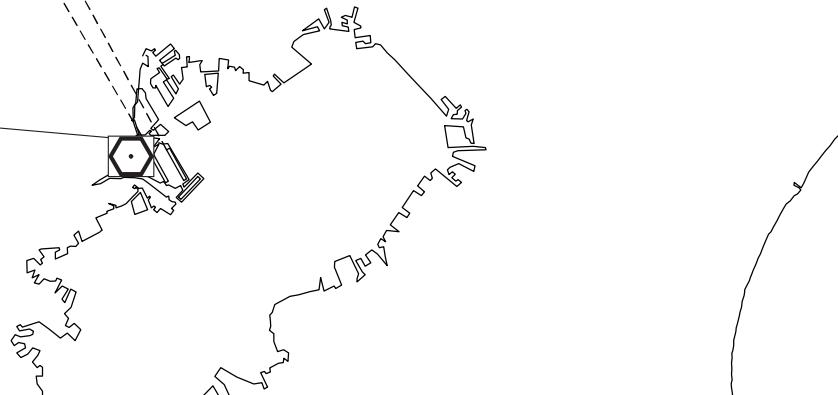
GODIN R ARRIVAL



GODIN L ARRIVAL

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

CHANGE : New PROC



## 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 T6L60, 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              | T6L60               | –        | 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)<br>1.5(+14001) | –                      | R              | 8000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | L              | 5000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SNARE               | 297 (289.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | R              | 4000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## 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)<br>1.5(+14001) | –                      | R              | 8000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | L              | 5000                  | –                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NEURO               | 290 (282.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | –                      | R              | 4000                  | –                     | -230(-14000)<br>-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 | SANDY               | 354917.5N / 1394402.8E |
| NATTY               | 355350.9N / 1394531.3E | SNARE               | 354731.1N / 1395238.1E |
| NEURO               | 355727.6N / 1395441.3E | T6L60               | 354838.2N / 1394838.4E |
| NIGEL               | 355607.5N / 1395117.8E | TT680               | 360608.2N / 1400904.0E |
| NILUS               | 355415.2N / 1401208.8E | TT681               | 360113.8N / 1401158.7E |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

POLIX L ARRIVAL  
POLIX R ARRIVAL

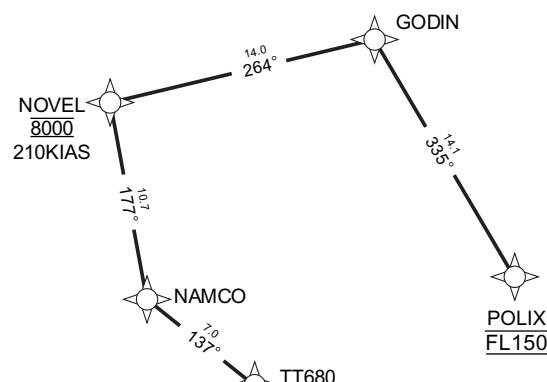
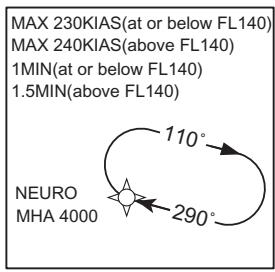
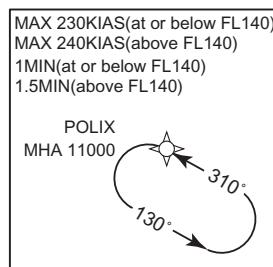
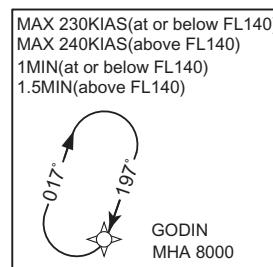
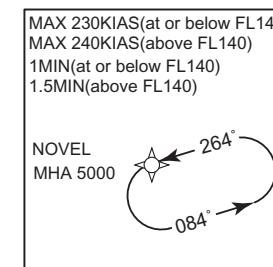
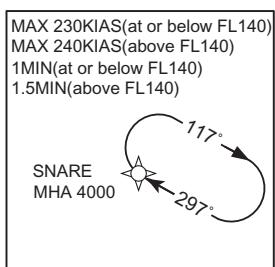
RNAV STAR RWY16L/16R

RNAV 1

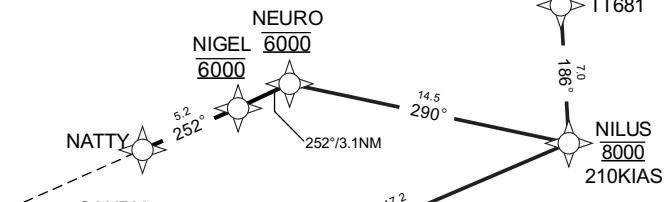
Note 1) DME/DME/IRU or GNSS required.

2) RADAR service required.

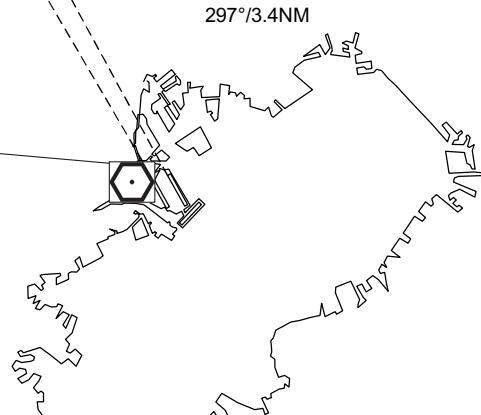
VAR 8° W(2019)



POLIX R ARRIVAL



POLIX L ARRIVAL



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

CHANGE : New PROC

## 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 T6L60, 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<br>(327.2) | -7.5               | 14.1          | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | NOVEL               | —        | 264<br>(256.4) | -7.5               | 14.0          | —              | 8000          | 210          | —              | RNAV1                    |
| 004           | TF              | NAMCO               | —        | 177<br>(169.8) | -7.5               | 10.7          | —              | —             | —            | —              | RNAV1                    |
| 005           | TF              | TT680               | —        | 137<br>(129.7) | -7.5               | 7.0           | —              | —             | —            | —              | RNAV1                    |
| 006           | TF              | TT681               | —        | 162<br>(154.3) | -7.5               | 5.4           | —              | —             | —            | —              | RNAV1                    |
| 007           | TF              | NILUS               | —        | 186<br>(178.9) | -7.5               | 7.0           | —              | 8000          | 210          | —              | RNAV1                    |
| 008           | TF              | SNARE               | —        | 255<br>(247.0) | -7.5               | 17.2          | —              | 6000          | —            | —              | RNAV1                    |
| 009           | TF              | T6L60               | —        | 297<br>(289.0) | -7.5               | 3.4           | —              | —             | —            | —              | RNAV1                    |
| 010           | TF              | SANDY               | —        | 288<br>(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<br>(302.3)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | GODIN               | 197<br>(189.2)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 8000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264<br>(256.4)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SNARE               | 297<br>(289.1)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

## 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)<br>1.5(+14001) | —                      | L              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | GODIN               | 197 (189.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 8000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NEURO               | 290 (282.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-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 | SANDY               | 354917.5N / 1394402.8E |
| NATTY               | 355350.9N / 1394531.3E | SNARE               | 354731.1N / 1395238.1E |
| NEURO               | 355727.6N / 1395441.3E | T6L60               | 354838.2N / 1394838.4E |
| 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 |                     |                        |

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

16.4 277°  
AVEEY 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)

098°  
278°  
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

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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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<br>(006.6) | -7.5               | 16.2          | -              | -             | -            | -              | RNAV1                    |
| 003           | TF              | UMUKI               | -        | 353<br>(345.5) | -7.5               | 16.1          | -              | +6000         | -            | -              | RNAV1                    |
| 004           | TF              | KAIHO               | -        | 353<br>(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<br>(031.2)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353<br>(345.5)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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<br>(269.8) | -7.5               | 16.4          | -              | -             | -            | -              | RNAV1                    |
| 003           | TF              | UTIBO               | -        | 310<br>(302.8) | -7.5               | 27.5          | -              | -             | -            | -              | RNAV1                    |
| 004           | TF              | UMUKI               | -        | 353<br>(345.5) | -7.5               | 16.1          | -              | +6000         | -            | -              | RNAV1                    |
| 005           | TF              | KAIHO               | -        | 353<br>(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<br>(306.1)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353<br>(345.5)        | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | L              | 6000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | R              | 5000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-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)<br>1.5(+14001) | -                      | L              | 6000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | -                      | R              | 4000                  | -                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

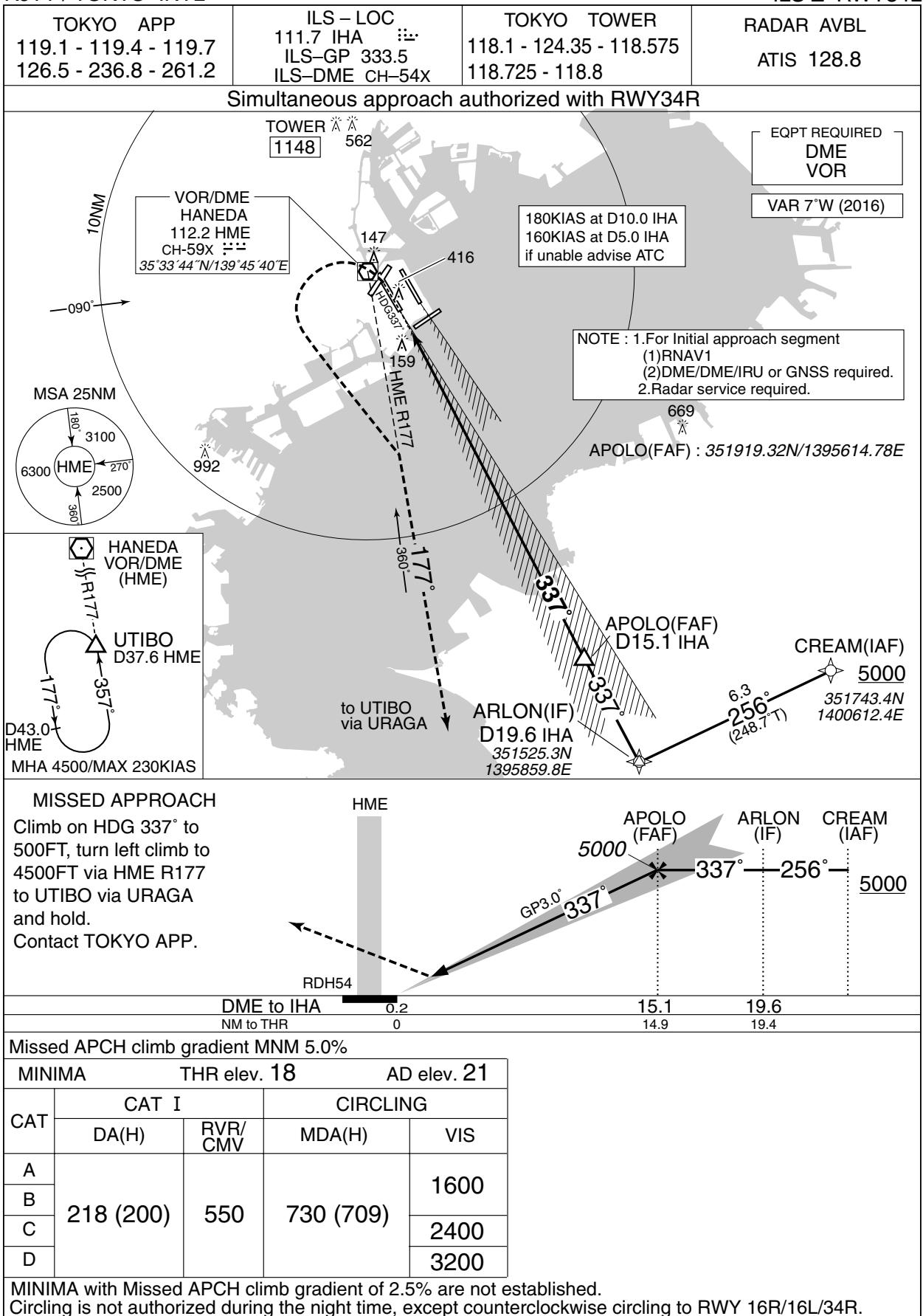
Waypoint Coordinates

| 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 |                     |                        |

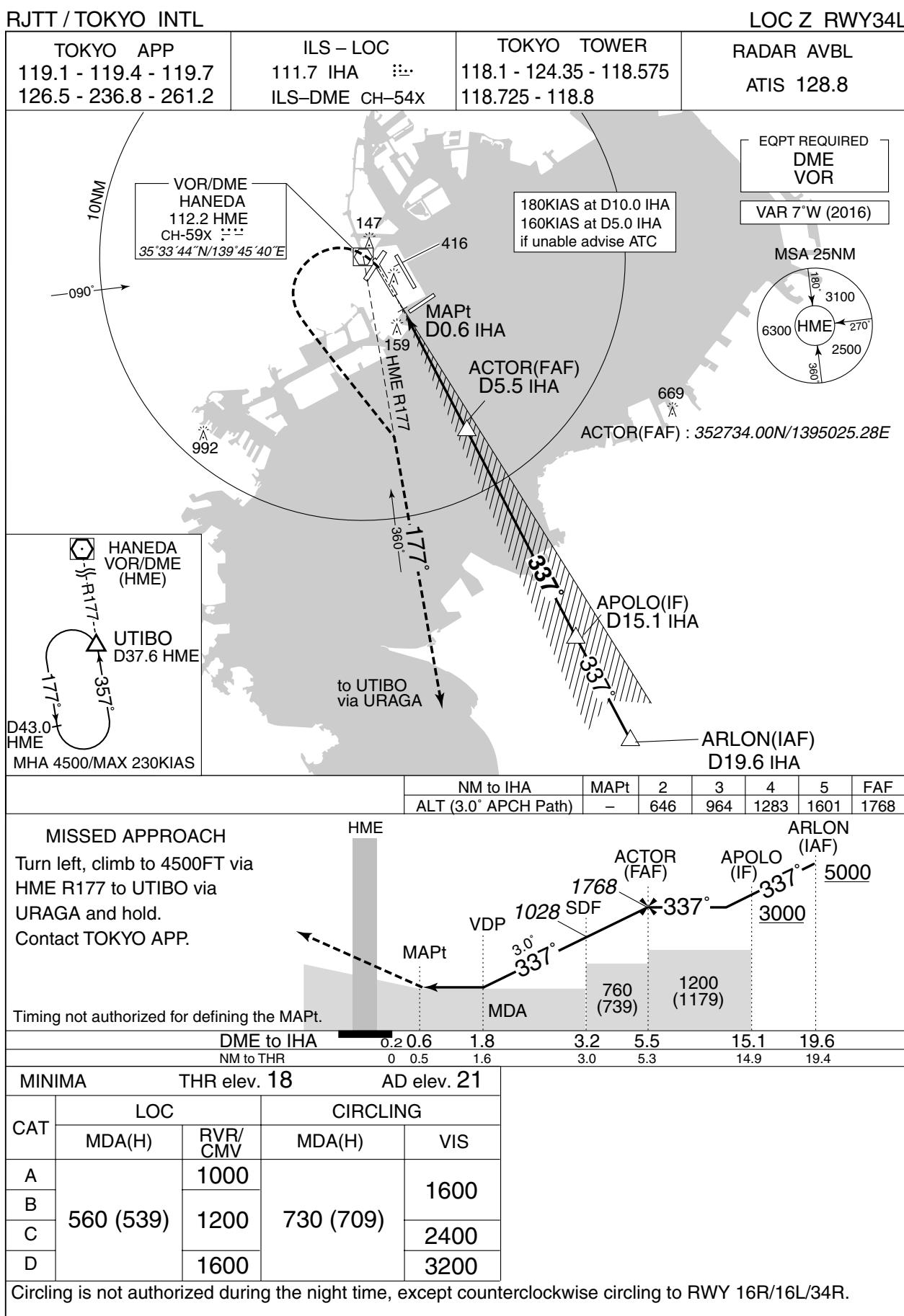
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

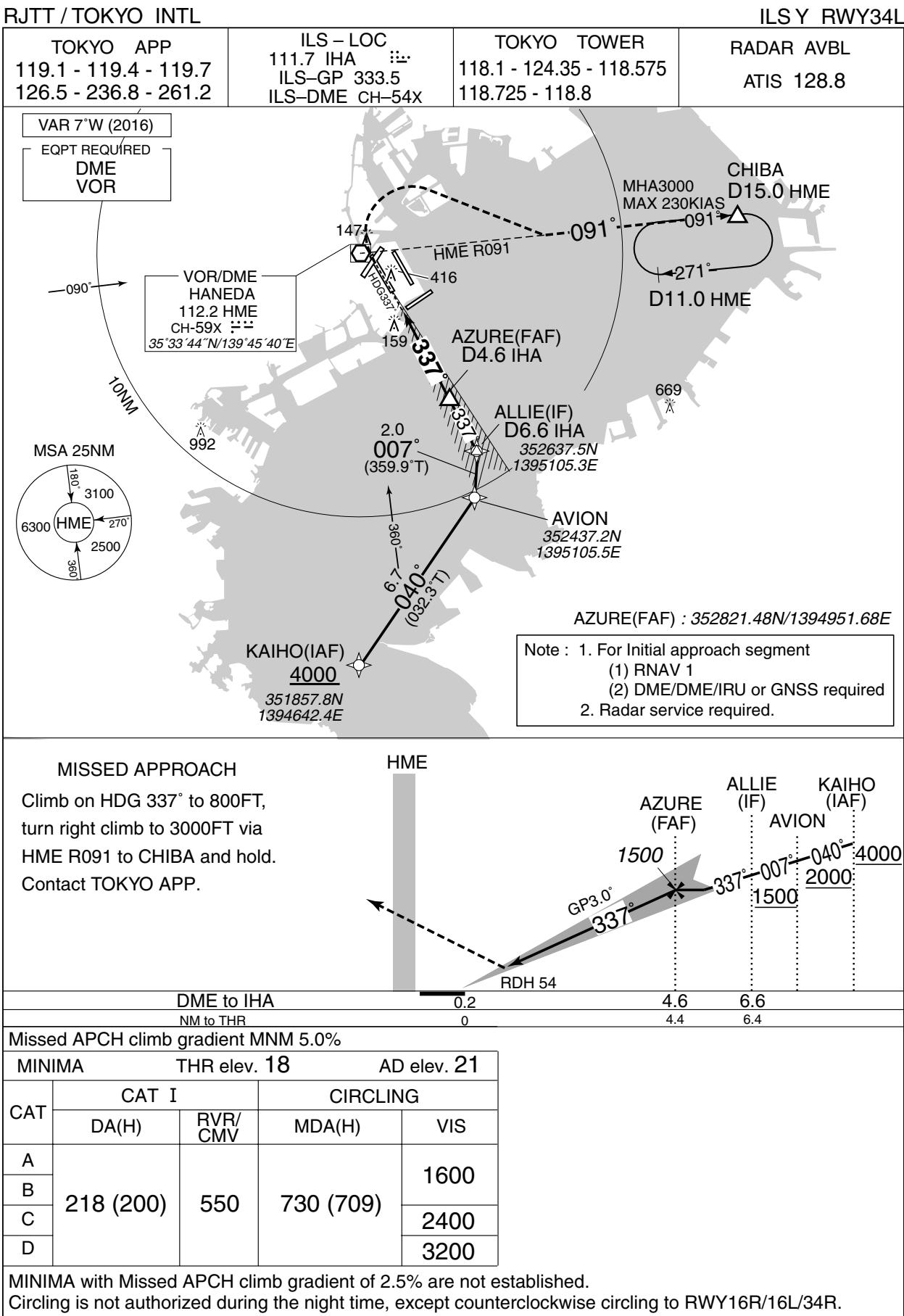
ILS Z RWY34L



## INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

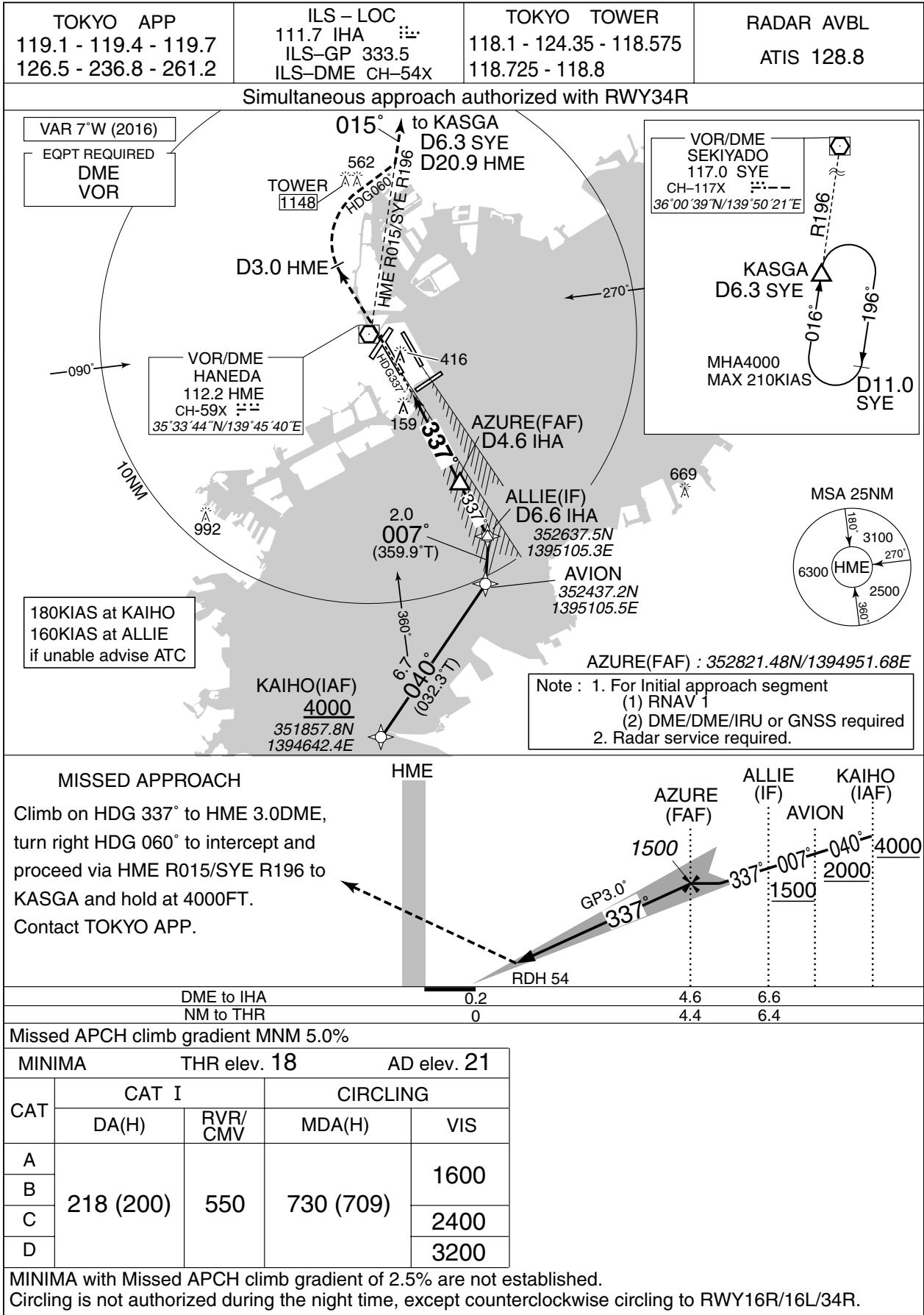
LOC Y RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS X RWY34L



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC X RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

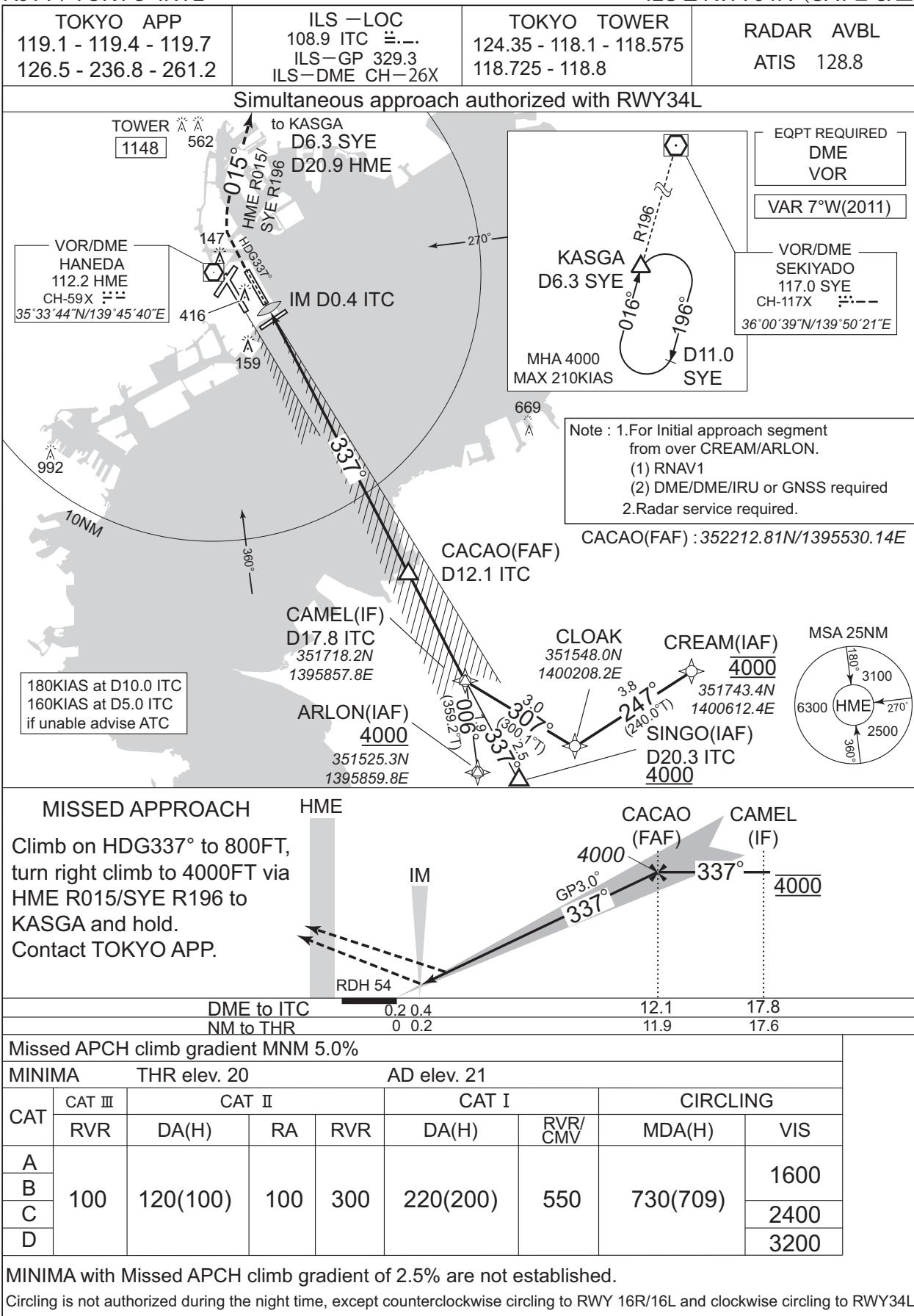
VOR RWY34L



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS Z RWY34R (CAT II &amp; III)



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC Z RWY34R



## INSTRUMENT APPROACH CHART

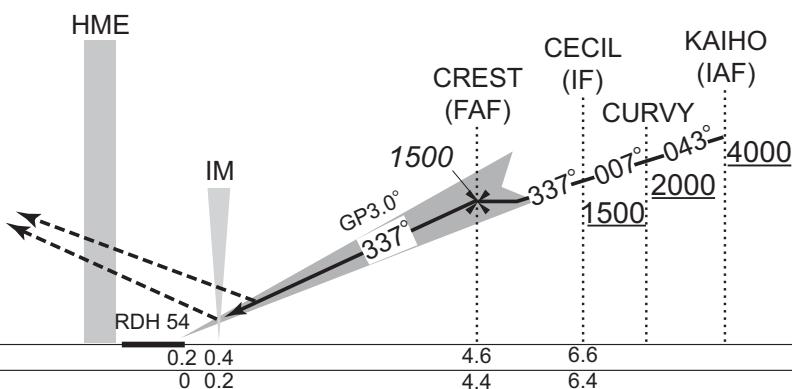
RJTT / TOKYO INTL

ILS Y RWY34R (CAT II &amp; 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 THR

0.2 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).

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

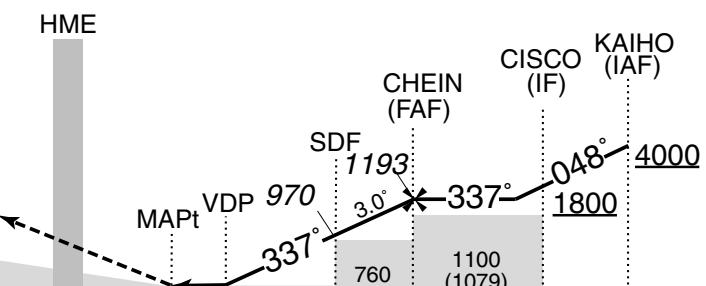
RJTT / TOKYO INTL

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.



| 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/<br>CMV  | MDA(H)      | VIS  |
| A      |           | 1200         |             |      |
| B      | 700 (679) | 1400         | 730 (709)   | 1600 |
| C      |           |              |             | 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

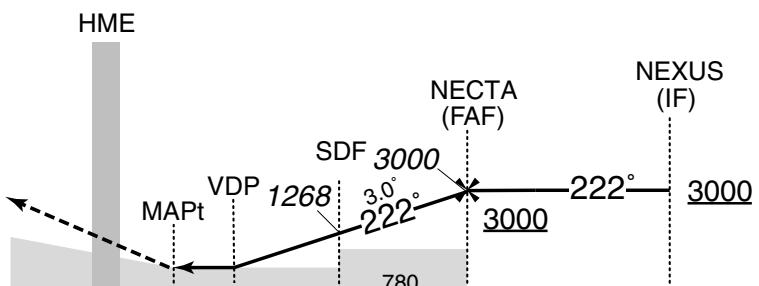
LOC RWY22



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      |         |           |      |

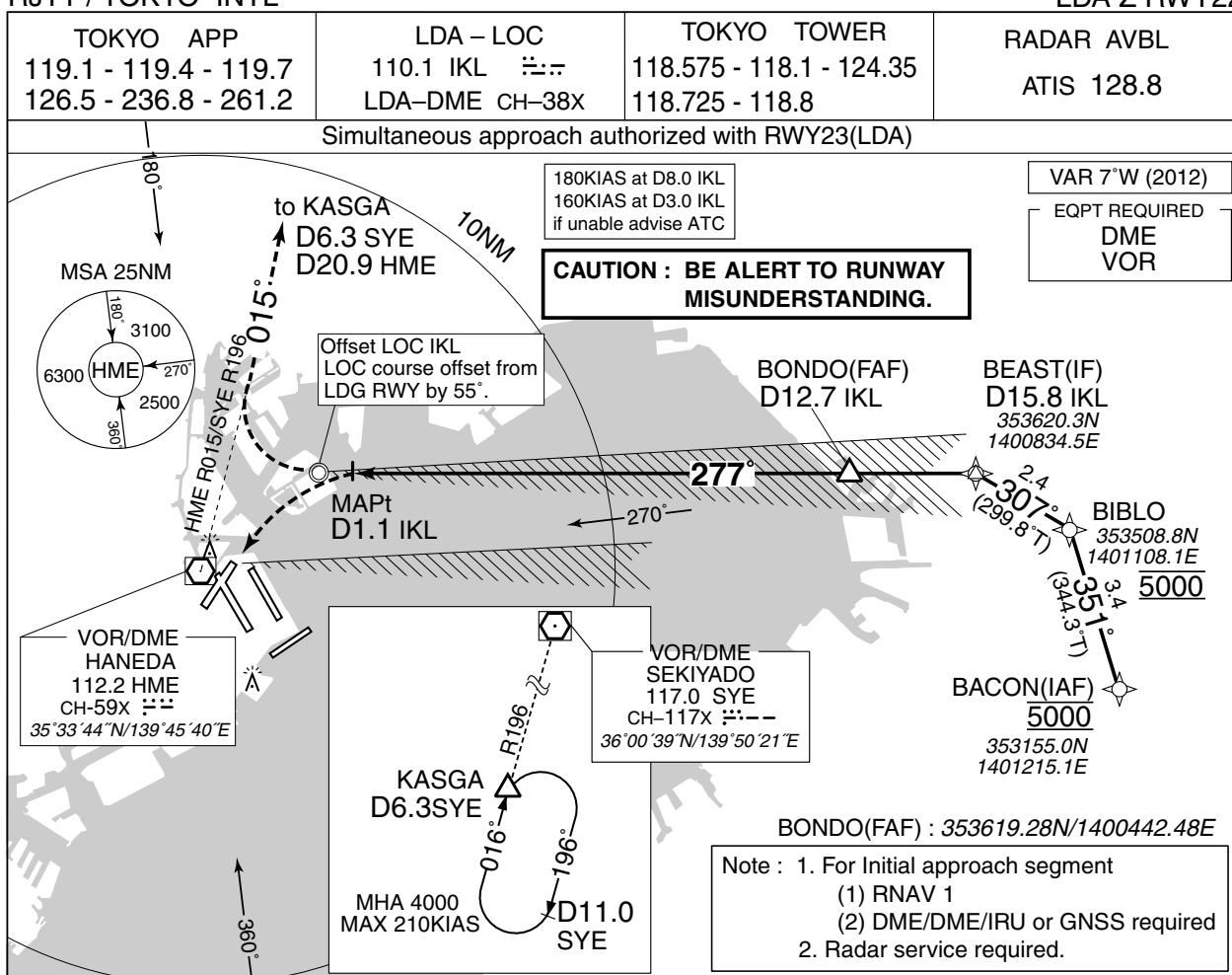
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

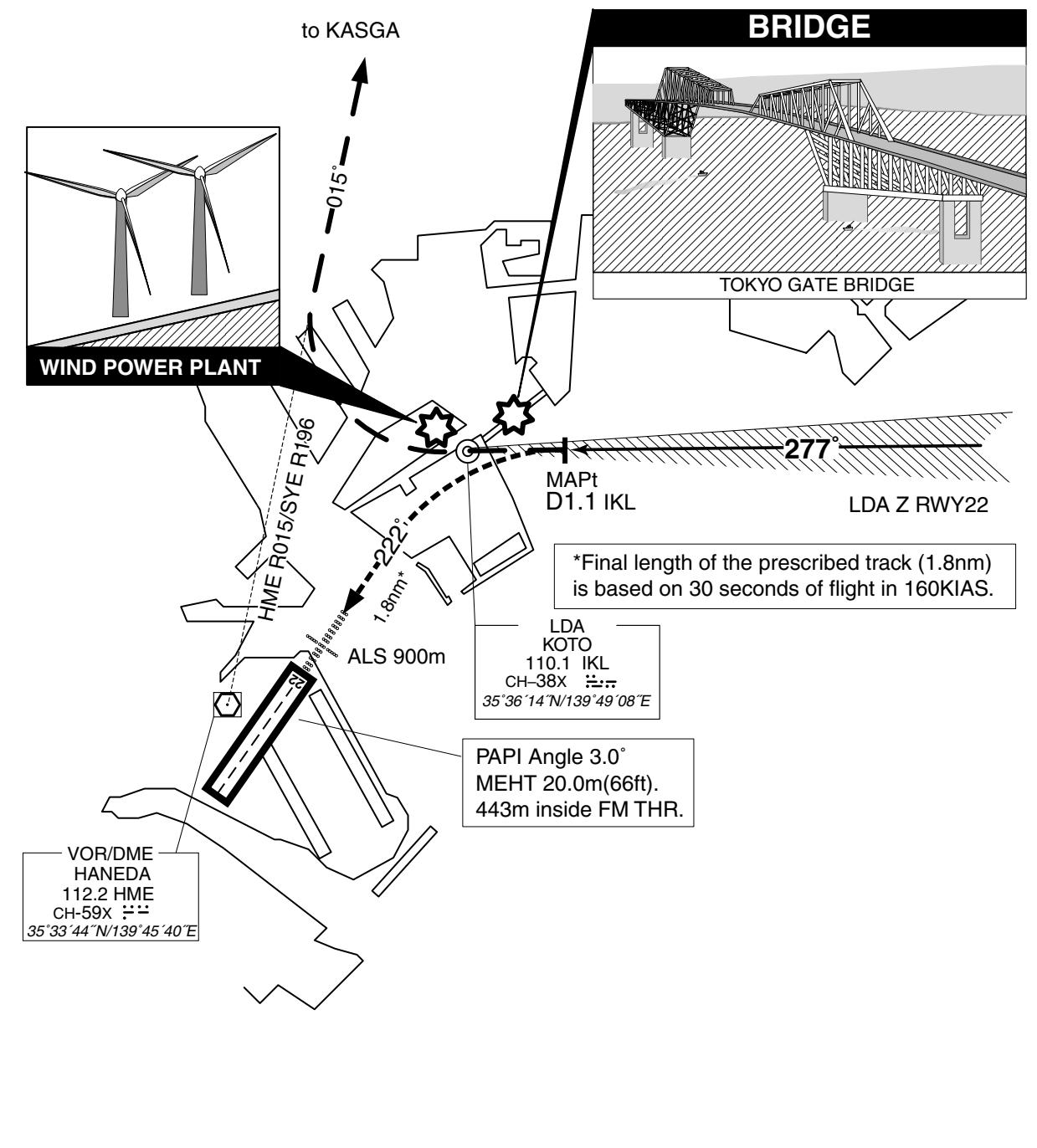
RJTT / TOKYO INTL

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.

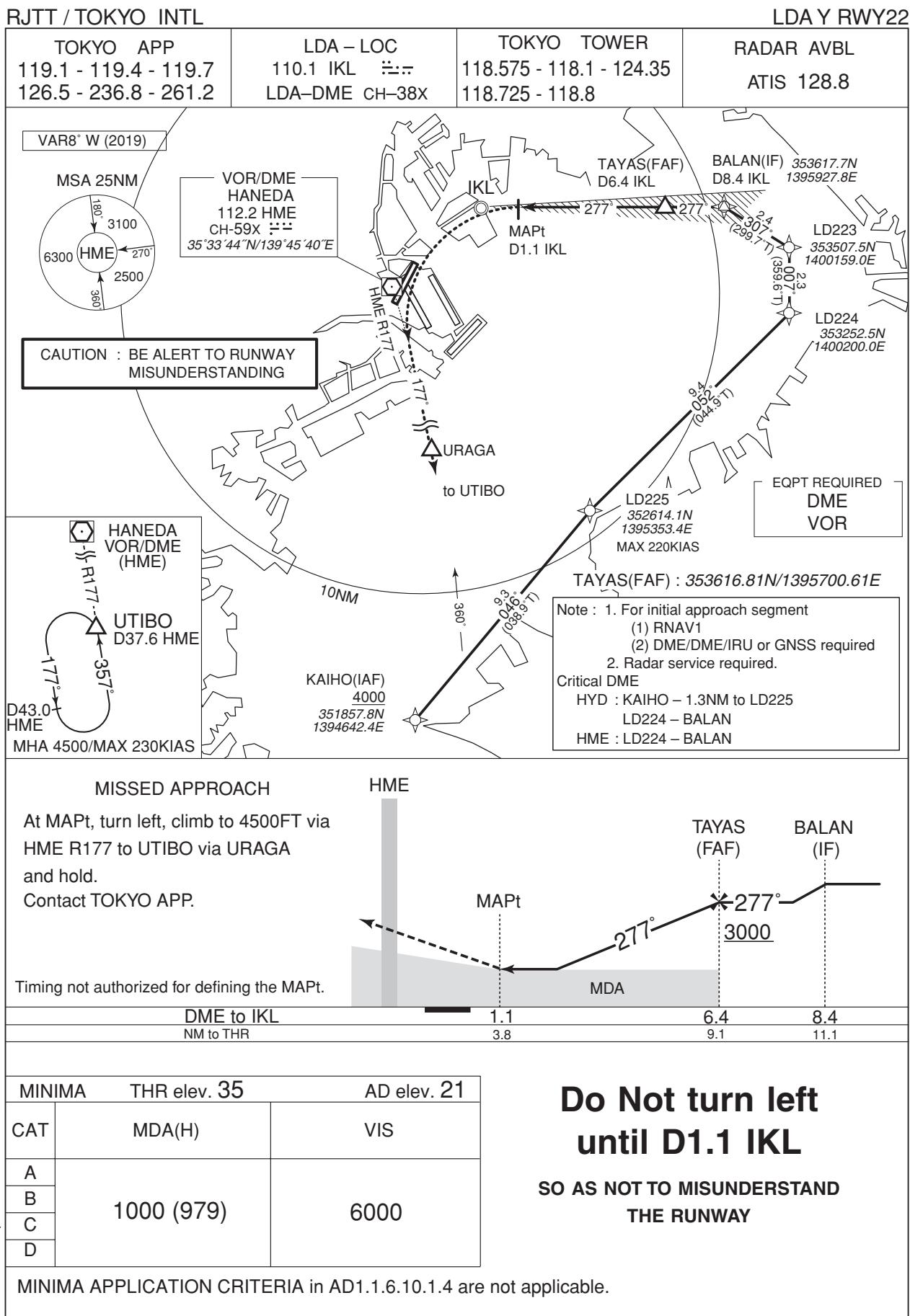
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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.

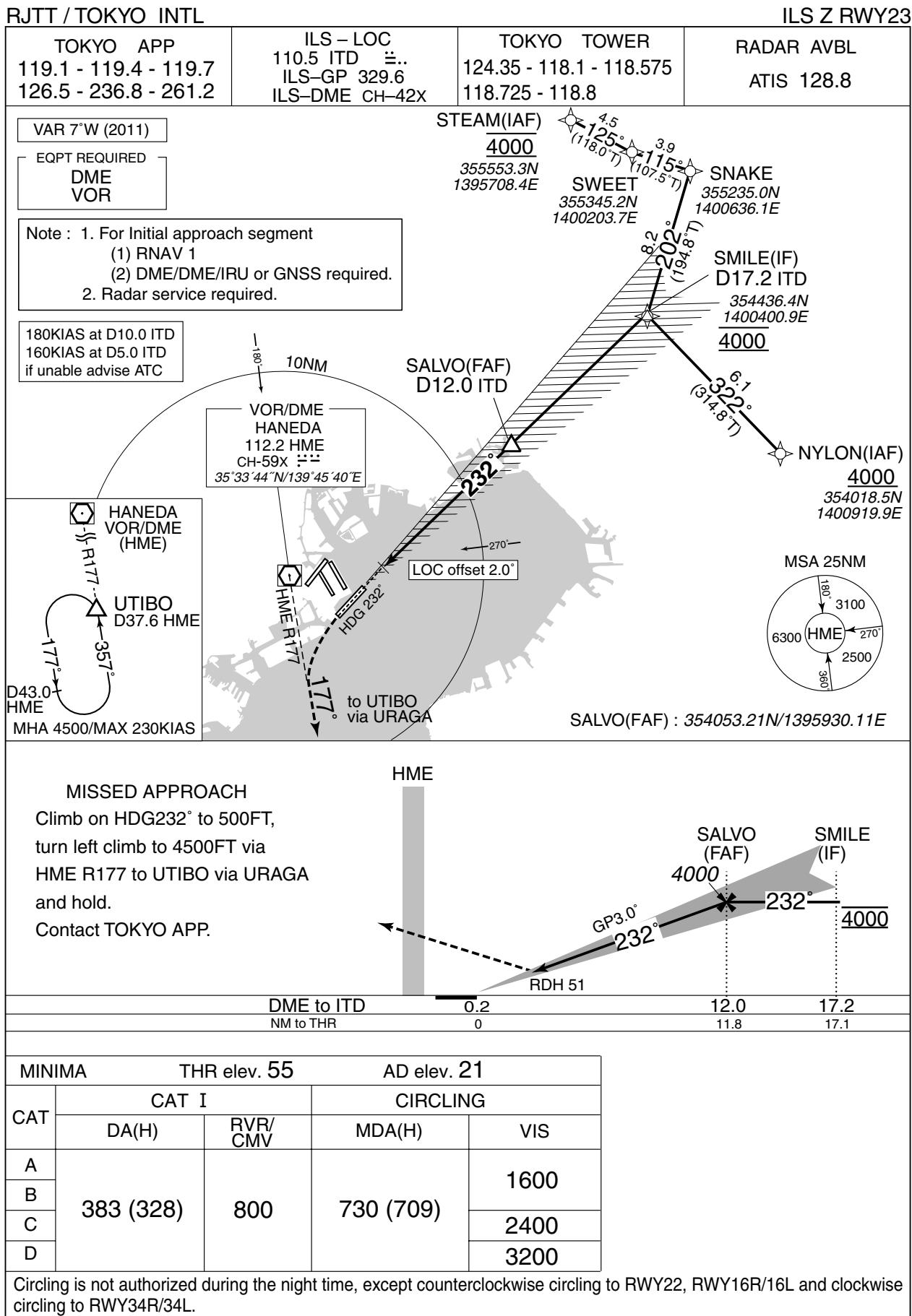
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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



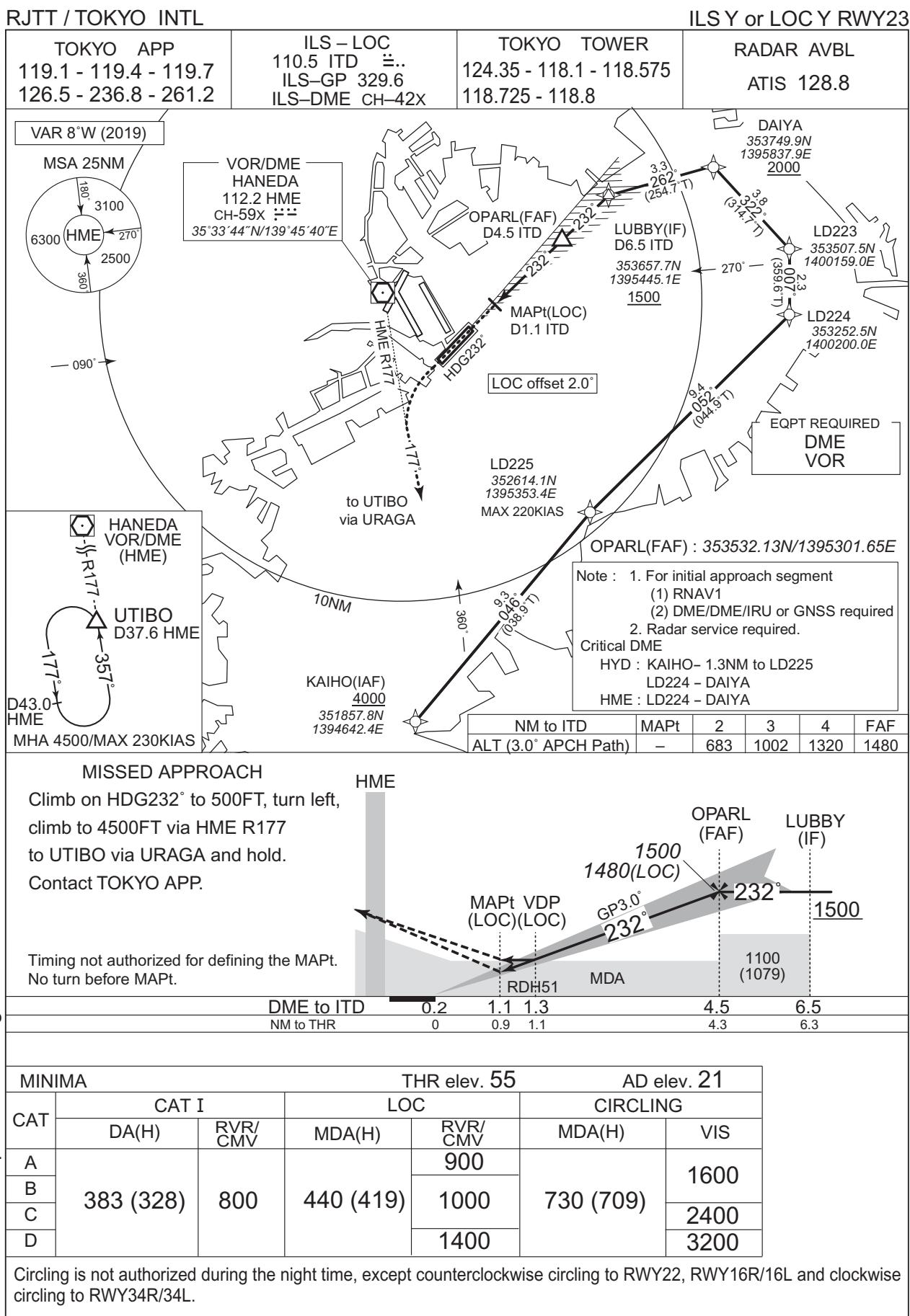
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LOC Z RWY23



## INSTRUMENT APPROACH CHART



CHANGE: Description of GP angle.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

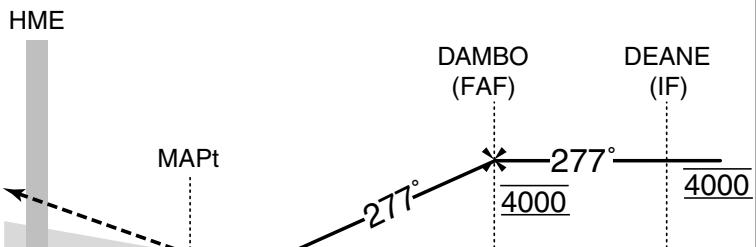
LDA Z RWY23



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.



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

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

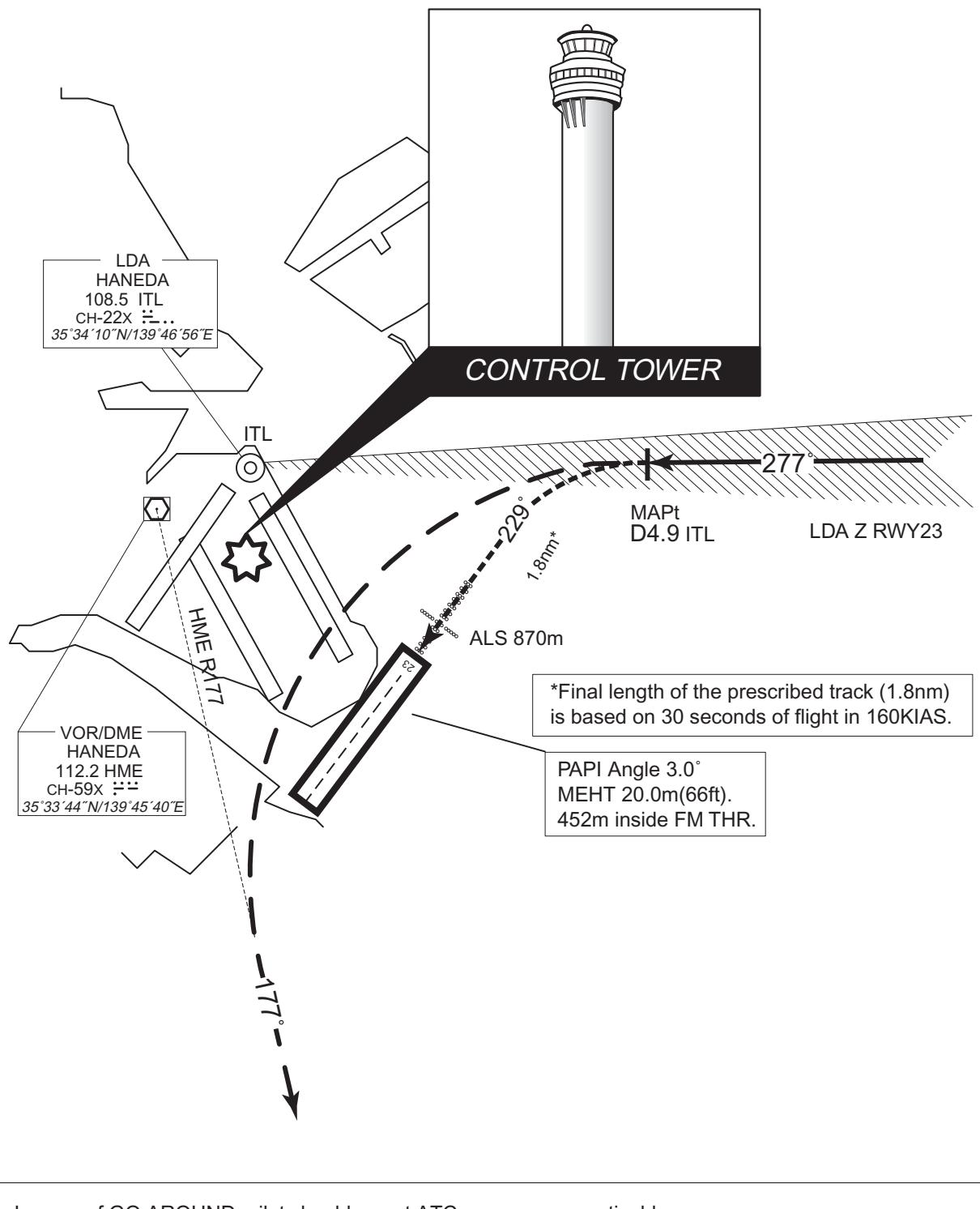
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA 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.



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 Y RWY23



MISSED APPROACH

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

HME

DOME(L)(FAF)  
DARKS  
(IF)

Timing not authorized for defining the MAPt.

MAPt

MDA

277°  
1800  
7.9  
9.9

DME to ITL  
NM to THR

4.9

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.



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

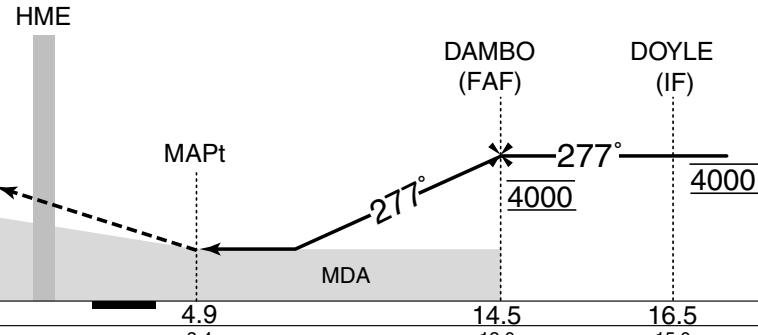
LDA X RWY23



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.

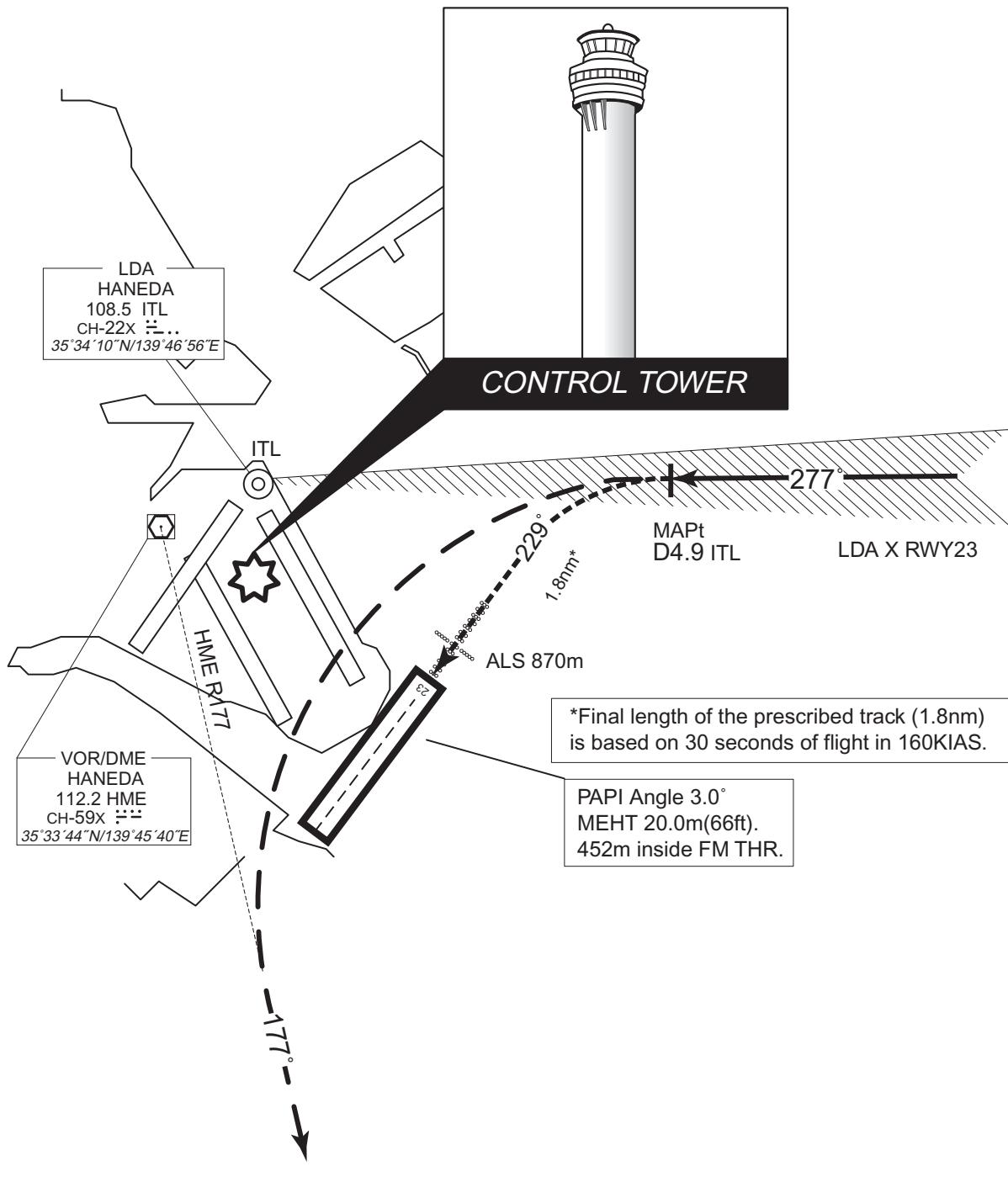
## INSTRUMENT APPROACH CHART

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).

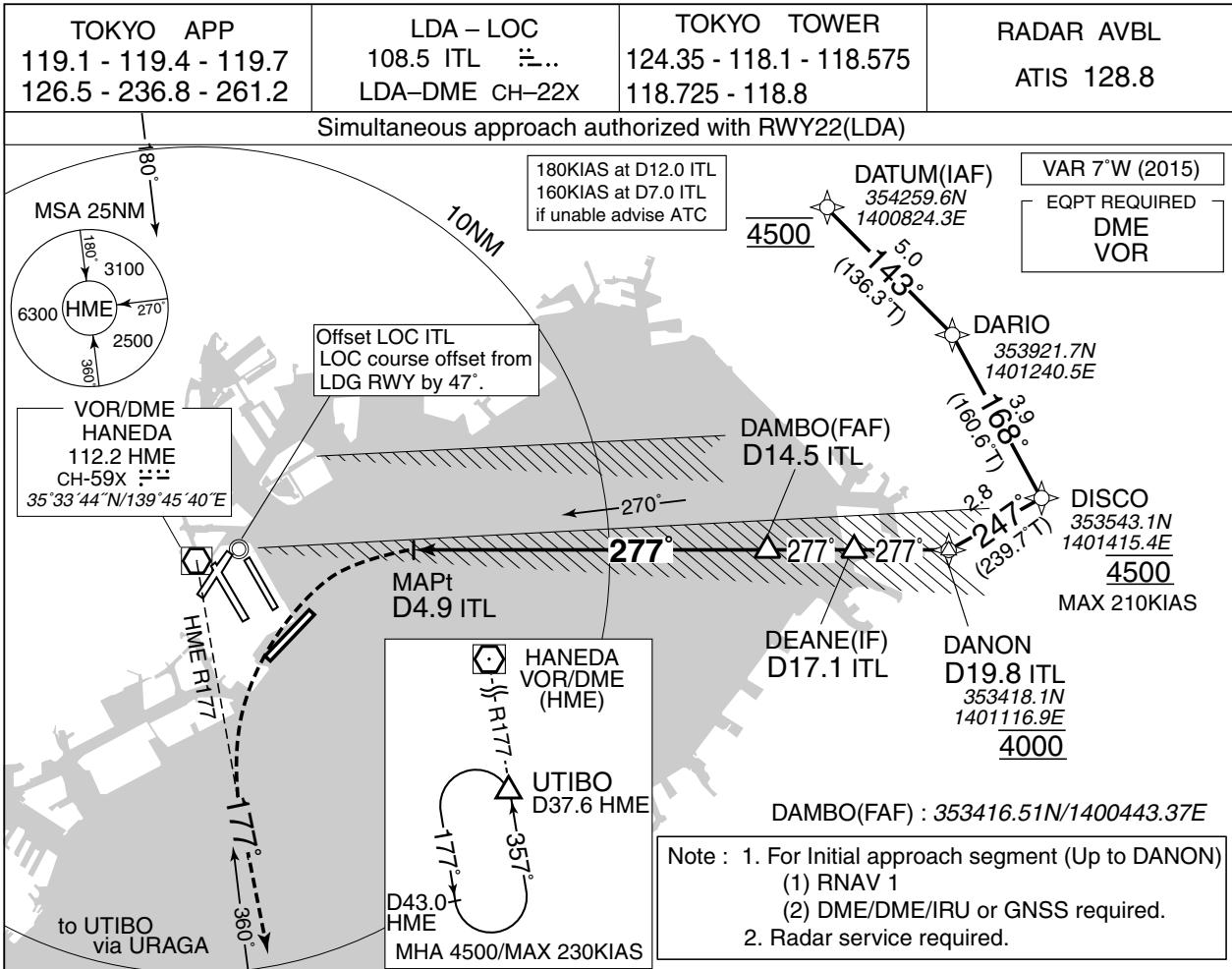
In case of GO AROUND, pilot should report ATC as soon as practicable.

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      |            |              |             |
| C      | 1000 (979) | 6000         |             |
| D      |            |              |             |

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

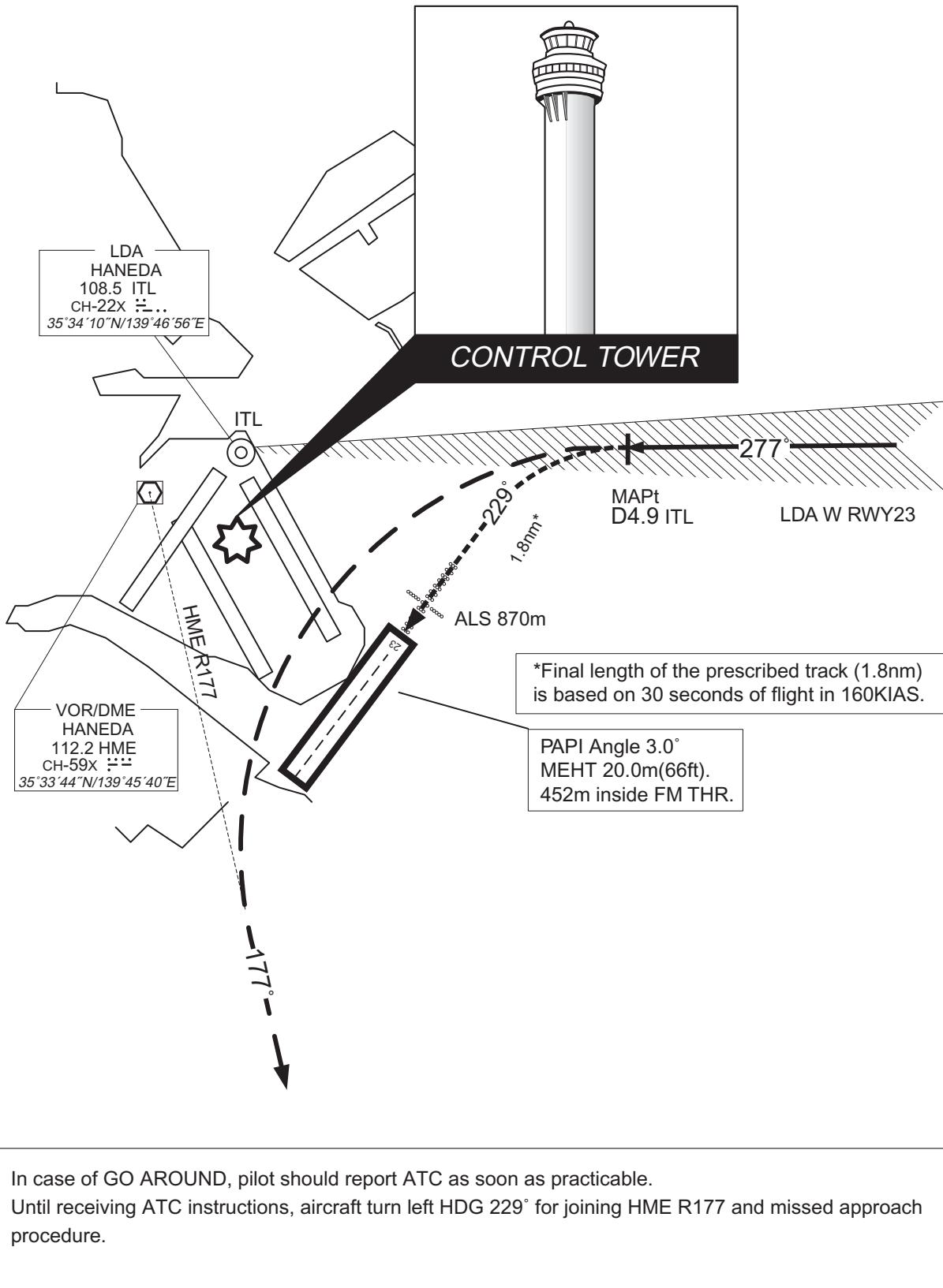
## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

## Visual Prescribed Track for LDA W RWY23

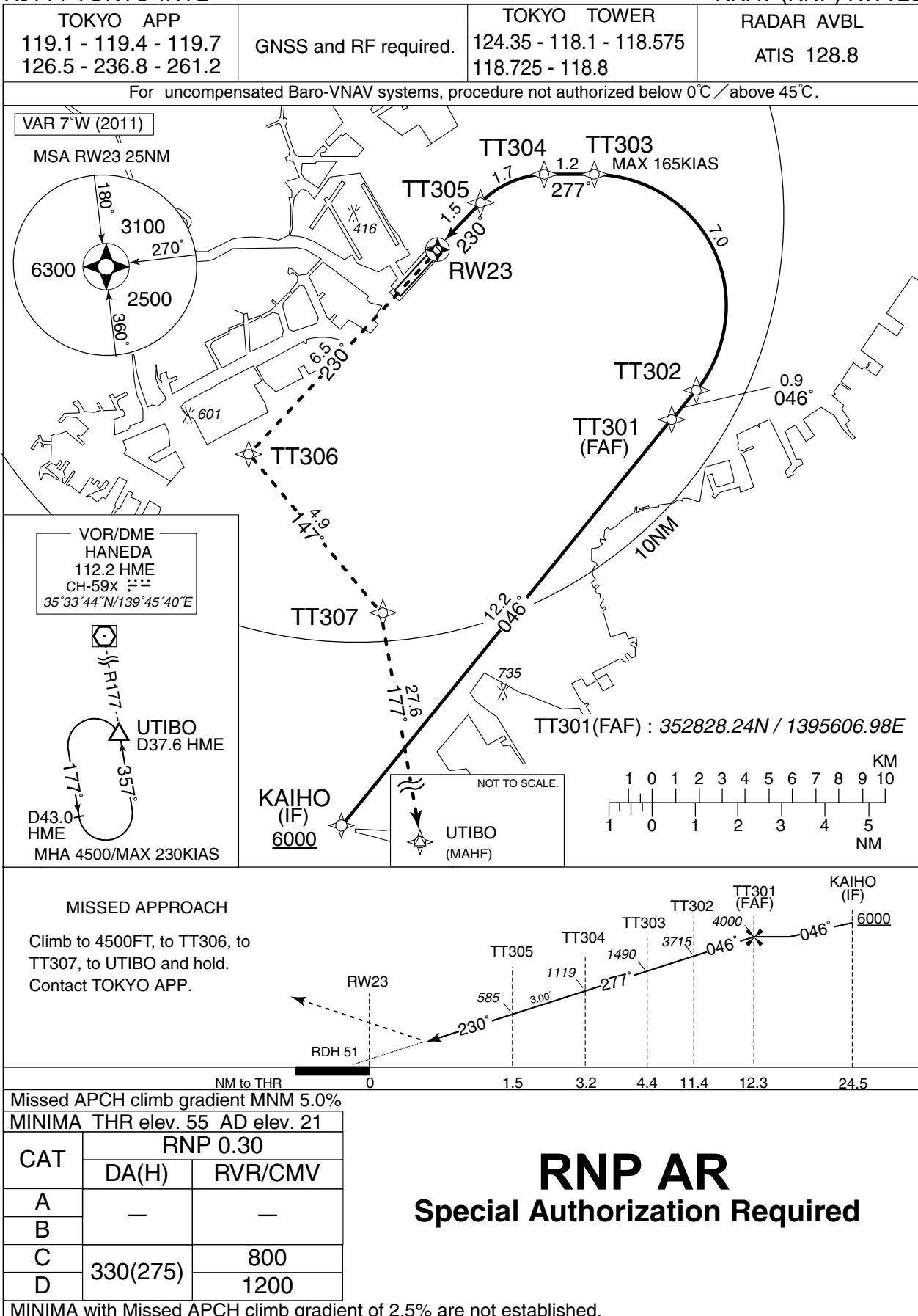
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (RNP) RWY23



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (RNP) RWY23

RNAV (RNP) RWY23Coding Table

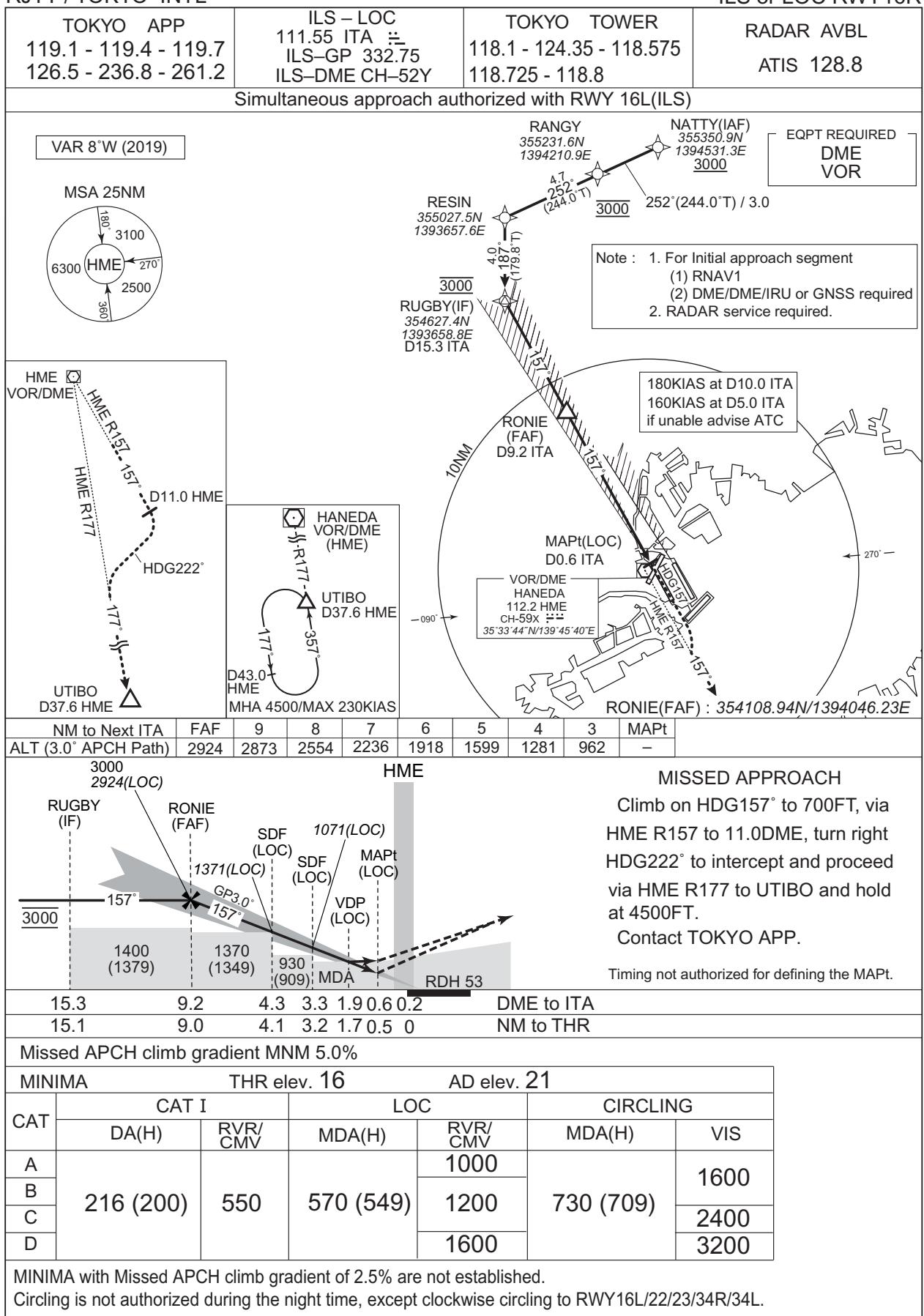
| Serial Number | Path Descriptor                 | Waypoint Identifier | Fly over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KT) | VPA/RDH (°/FT) | RNP Value |
|---------------|---------------------------------|---------------------|----------|-----------------|--------------------|---------------|----------------|---------------|------------|----------------|-----------|
| 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:<br>TTRF1<br>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:<br>TTRF2<br>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 |                          |                          |

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL



## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (GNSS) RWY16R

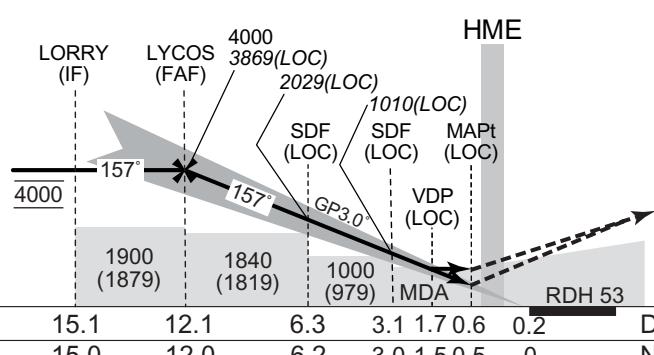
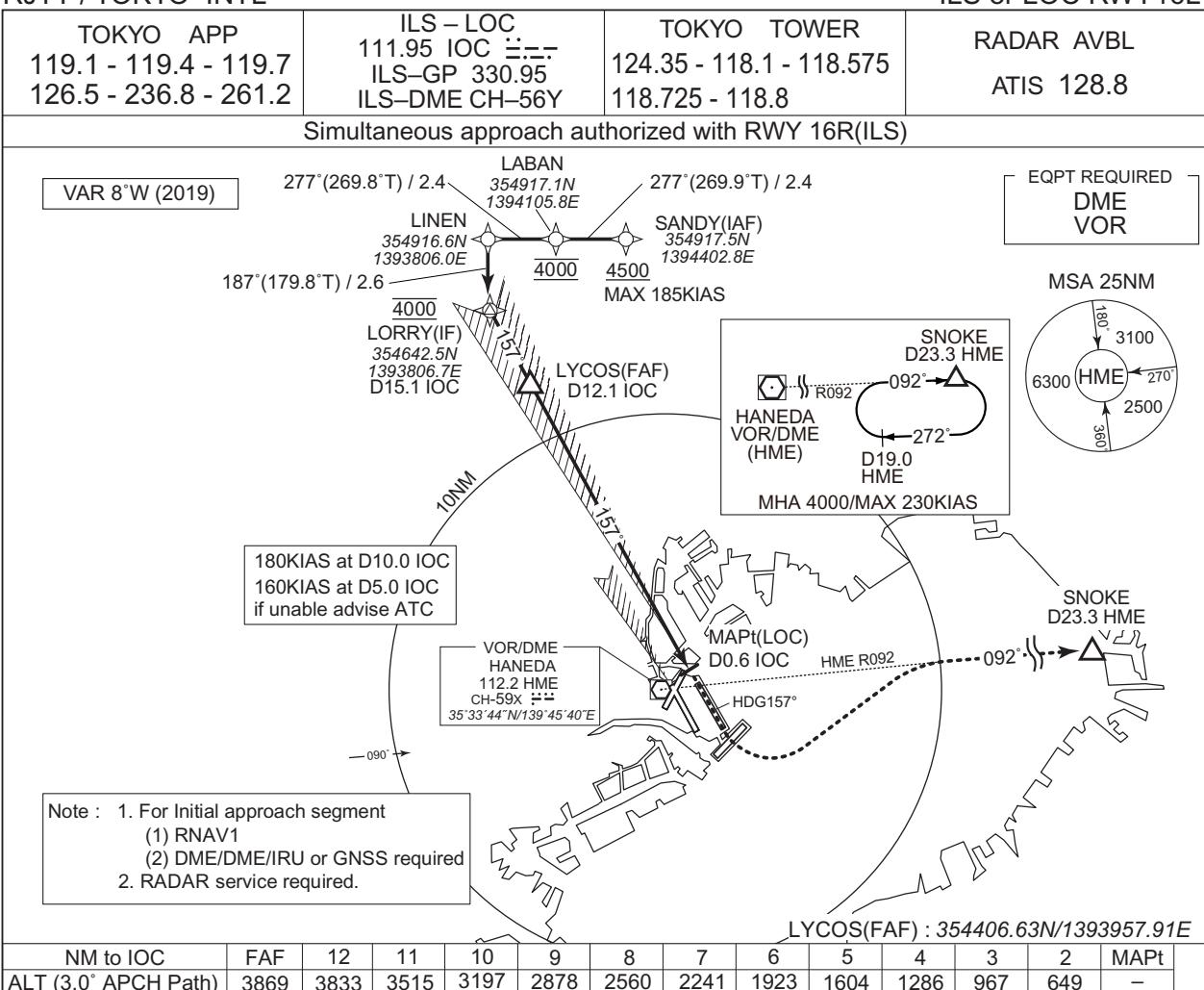


CHANGE : New PROC

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS or LOC RWY16L



MISSED APPROACH

Climb on HDG157° to 700FT, turn left to intercept and proceed via HME R092 to SNOKE and hold at 4000FT.

Contact TOKYO APP.

No turn before IOC 0.6DME.  
Timing not authorized for defining the MAPt.

Missed APCH climb gradient MNM 5.0%

MINIMA      THR elev. 19      AD elev. 21

| CAT | CAT I     |         | LOC       |         | CIRCLING  |      |
|-----|-----------|---------|-----------|---------|-----------|------|
|     | DA(H)     | RVR/CMV | MDA(H)    | RVR/CMV | MDA(H)    | VIS  |
| A   |           |         |           | 1000    |           |      |
| B   |           |         |           | 1200    |           |      |
| C   | 219 (200) | 550     | 530 (509) |         | 730 (709) | 1600 |
| D   |           |         |           | 1600    |           | 2400 |
|     |           |         |           |         |           | 3200 |

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

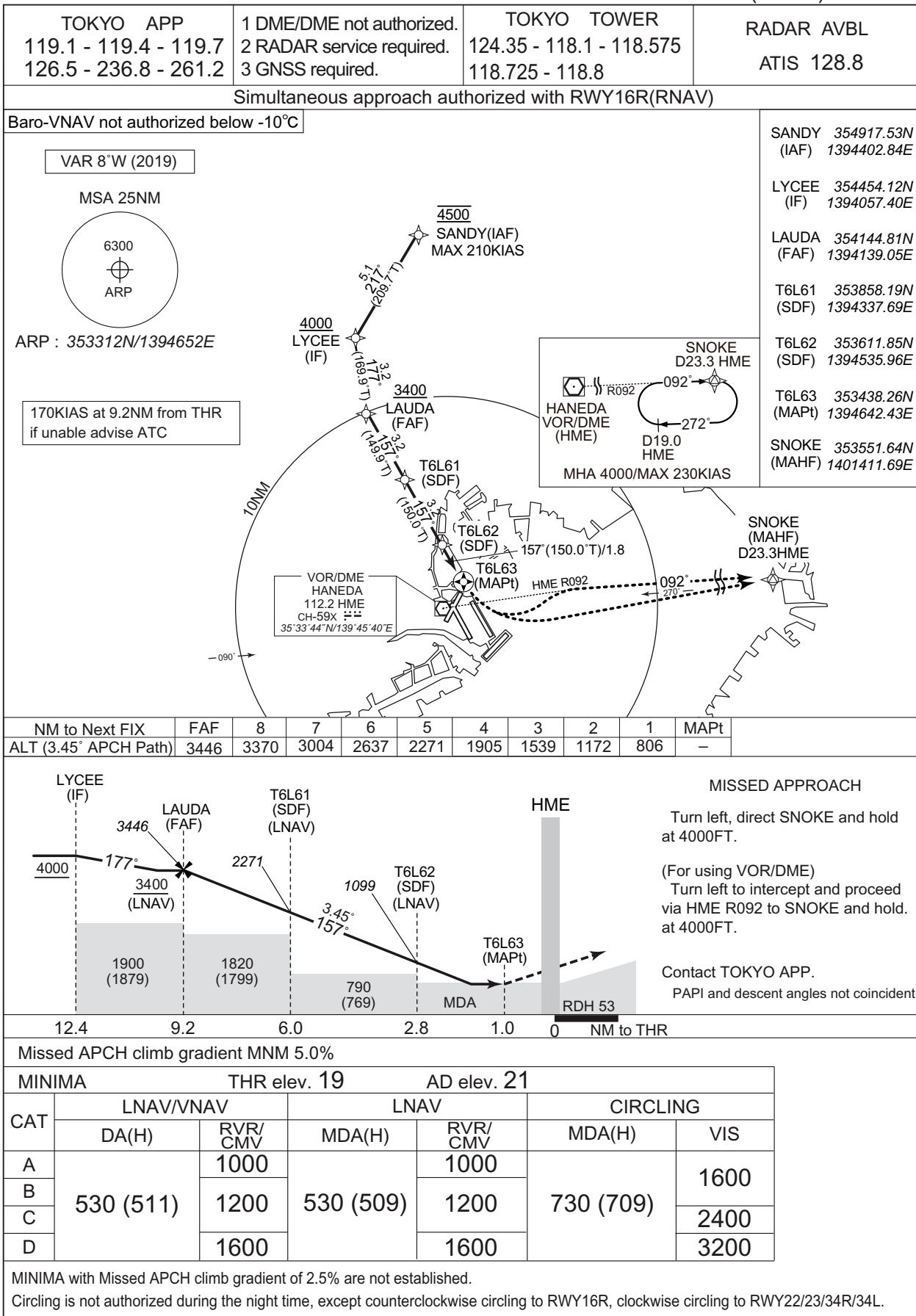
Circling is not authorized during the night time, except counterclockwise circling to RWY16R, clockwise circling to 22/23/34R/34L.

CHANGE : New PROC

## INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNAV (GNSS) RWY16L

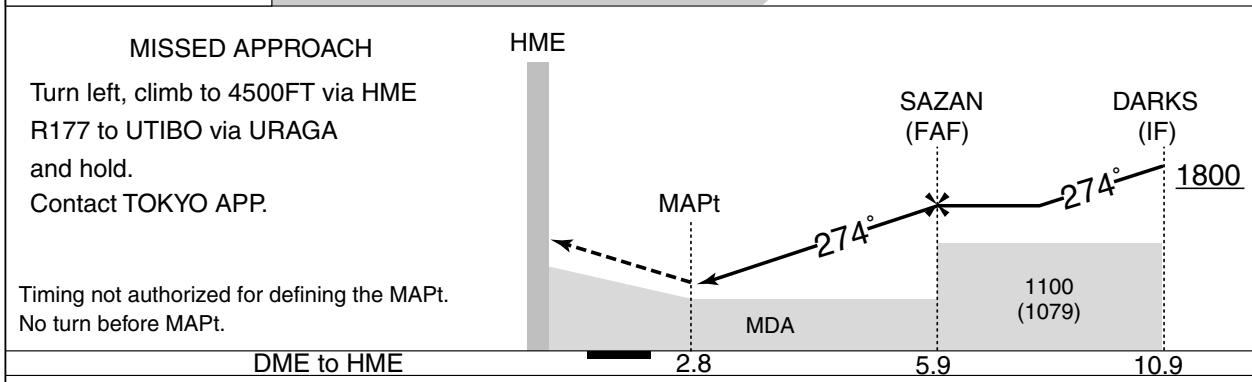


CHANGE : New PROC

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

|  |                         |        |
|--|-------------------------|--------|
| <p>Note 1) DME/DME/IRU or GNSS required.<br/>2) RADAR service required.</p> <p>1. Outbound Time / Distance<br/>2. Speed<br/>→ See Tabular Description.</p> |                         | RNAV 1 |
| ARLON<br>MHA 4000  | BACON<br>MHA 4000       |        |
| COACH<br>MHA 4000  | CREAM<br>MHA 4000       |        |
| DREAD<br>MHA 5000  | MESSE<br>MHA 6000       |        |
| SCREW<br>MHA 4000  | STING<br>MHA 4000       |        |
| NUMAN<br>MHA 4000  | OSHIMA(XAC)<br>MHA 5000 |        |
| NEURO<br>MHA 4000  |                         |        |

CHANGE : NEURO, NUMAN, SNARE, SPINE 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 | ACORN               | 068 (060.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | AKSEL               | 039 (031.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | ARLON               | 009 (001.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | AVEEY               | 314 (306.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | BACON               | 003 (355.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CIVIC               | 345 (337.7)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COACH               | 185 (177.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | COLOR               | 197 (189.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 8000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | CREAM               | 291 (283.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | DENNY               | 167 (159.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | DREAD               | 191 (183.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | GODIN               | 197 (189.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 8000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | KAIHO               | 353 (345.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | MESSE               | 246 (238.8)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 6000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NEURO               | 290 (282.9)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NOVEL               | 264 (256.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NUMAN               | 360 (352.5)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | NYLON               | 357 (350.0)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | POLIX               | 310 (302.3)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 11000                 | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SCREW               | 203 (195.2)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SHAFT               | 330 (322.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SNARE               | 297 (289.1)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | SPINE               | 348 (340.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | STING               | 067 (059.6)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | WEDGE               | 300 (292.4)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | L              | 4000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |
| Hold | XAC                 | 098 (090.3)           | -7.5               | 1.0(-14000)<br>1.5(+14001) | —                      | R              | 5000                  | —                     | -230(-14000)<br>-240(+14001) | RNAV1                    |

CHANGE : NEURO, NUMAN, SNARE, SPINE established

RJTT / TOKYO INTL

RNAV HLDG PATTERN

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | Waypoint Identifier | Coordinates            |
|---------------------|------------------------|---------------------|------------------------|
| ACORN               | 345028.8N / 1394146.7E | MESSE               | 351100.8N / 1402214.7E |
| AKSEL               | 344039.5N / 1395126.9E | 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 : NEURO, NUMAN, SNARE, SPINE established

RJTT / TOKYO INTL

Visual REP



## RJTT / TOKYO INTL

Visual REP

| Call sign               | BRG/DIST from ARP | Remarks                          |
|-------------------------|-------------------|----------------------------------|
| 品川<br>Shinagawa         | 353°/5.0NM        | JR駅<br>JR Station                |
| 洗足<br>Senzoku           | 311°/5.2NM        | 池<br>Pond                        |
| 扇島<br>Ohgijima          | 225°/5.9NM        | 扇島の西端<br>West edge of the island |
| 大師橋<br>Daishibashi      | 257°/1.9NM        | 橋<br>Bridge                      |
| 六郷橋<br>Rokugobashi      | 261°/3.6NM        | 橋<br>Bridge                      |
| 新川崎<br>Shinkawasaki     | 276°/5.3NM        | JR駅<br>JR Station                |
| 丸子橋<br>Marukobashi      | 296°/5.7NM        | 橋<br>Bridge                      |
| 渋谷<br>Shibuya           | 336°/7.3NM        | JR駅<br>JR Station                |
| ベイブリッジ<br>Bay Bridge    | 227°/8.0NM        | (首都高速湾岸線)橋<br>Bridge             |
| 多摩川大橋<br>Tamagawaohashi | 280°/4.2NM        | 橋<br>Bridge                      |

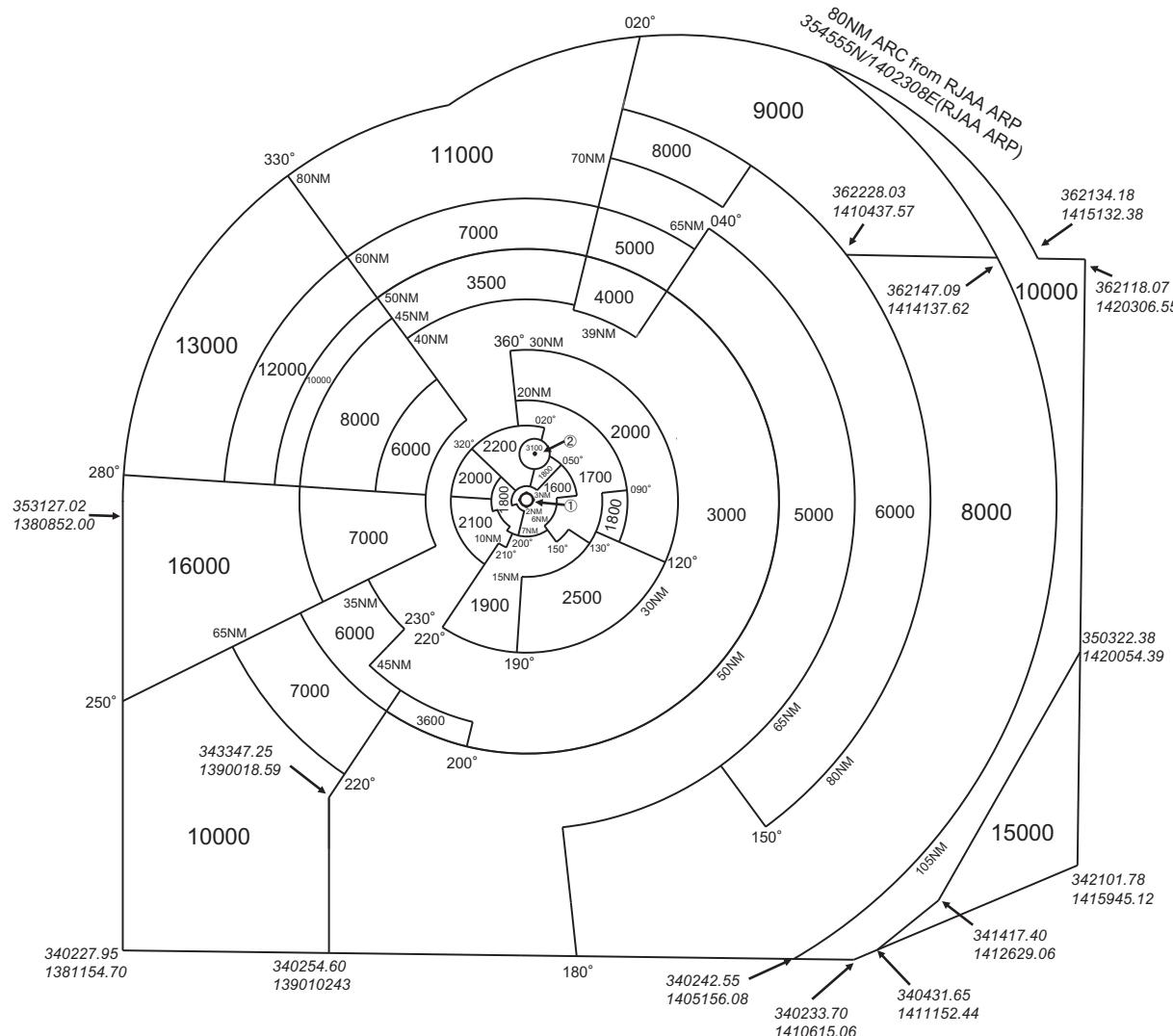
CHANGE: MATSUDO abolished. TAMAGAWAOHASHI established.

RJTT / TOKYO INTL

## Minimum Vectoring Altitude CHART

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VAR 8°W (2019)



①CENTER : 353312N/1394652E(RJTT ARP)  
②354236N/1394839E RADIUS : 3NM

CHANGE : Update



PAPI:

RWY 16L-3.0°, MEHT 19.9m (65ft)  
412m 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.  
RWY34L-3.0°, MEHT 20.0m (66ft)  
449m inside from THR.  
RWY04-3.0°, MEHT 18.5m (61ft)  
369m inside from THR.  
RWY 22-3.0°, MEHT 19.5m (63ft)  
438m inside from THR.  
RWY 23-3.0°, MEHT 20.0m (66ft)  
452m inside from THR.

RWY Grooving :

RWY 16L/34R 3360m X 40m  
RWY 16R/34L 3000m X 40m  
RWY 04/22 2500m X 40m  
RWY 05/23 2500m X 40m

**INTENTIONALLY LEFT BLANK**

Attachment-1



CHANGE : Note