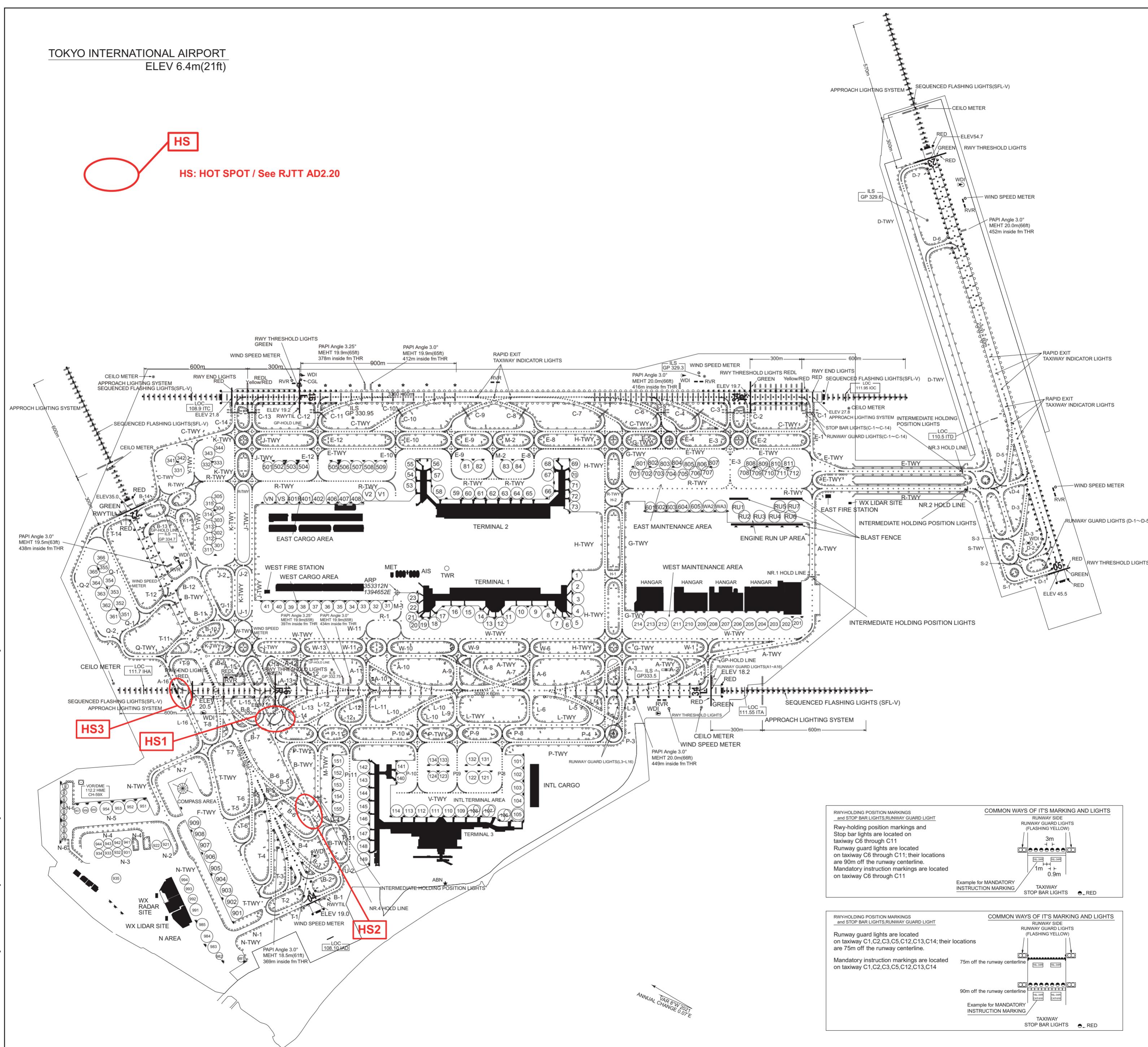


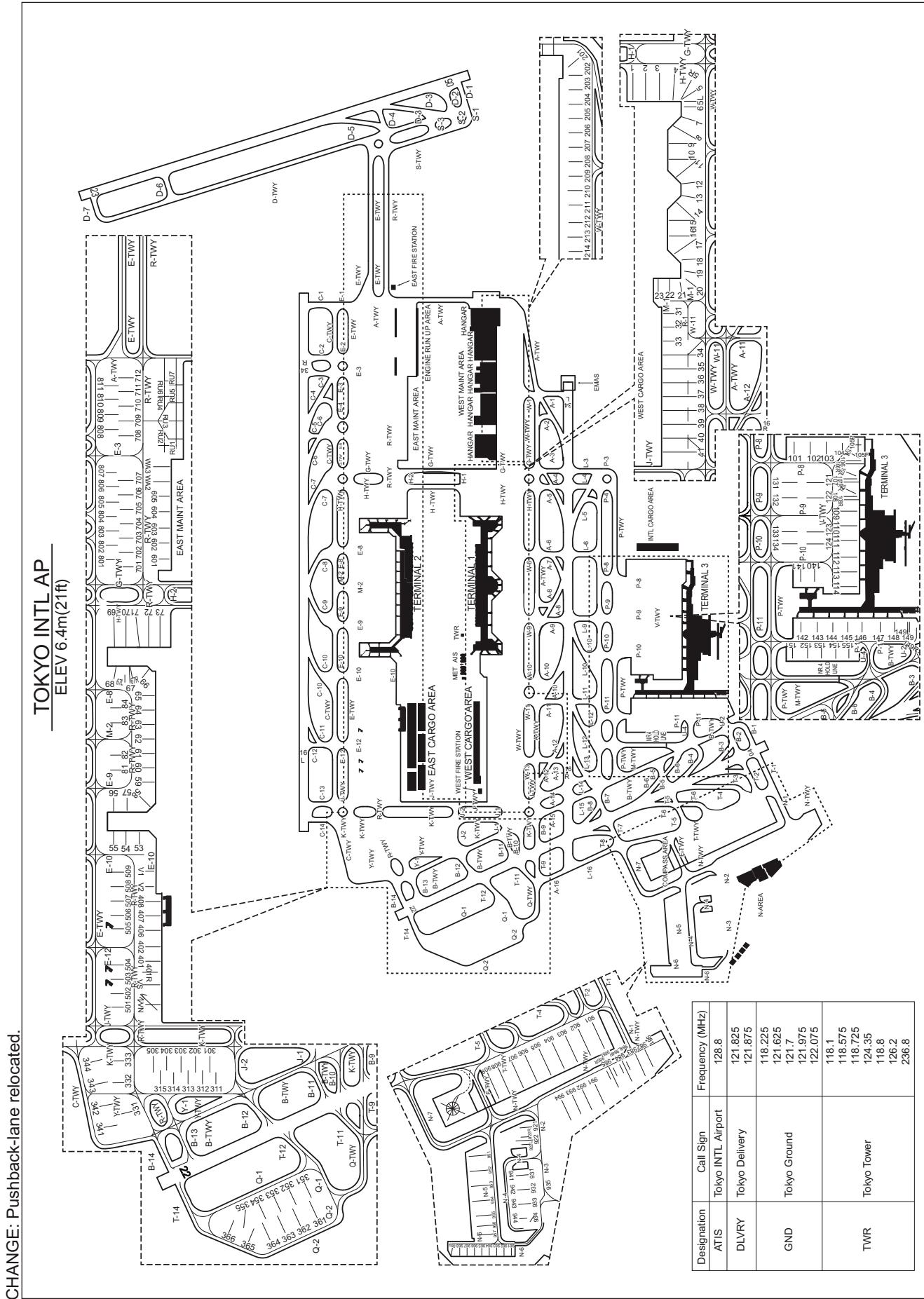
AERODROME CHART

CHANGE: Spot24, Spot51, Spot52 abolished. Shape of APRON.

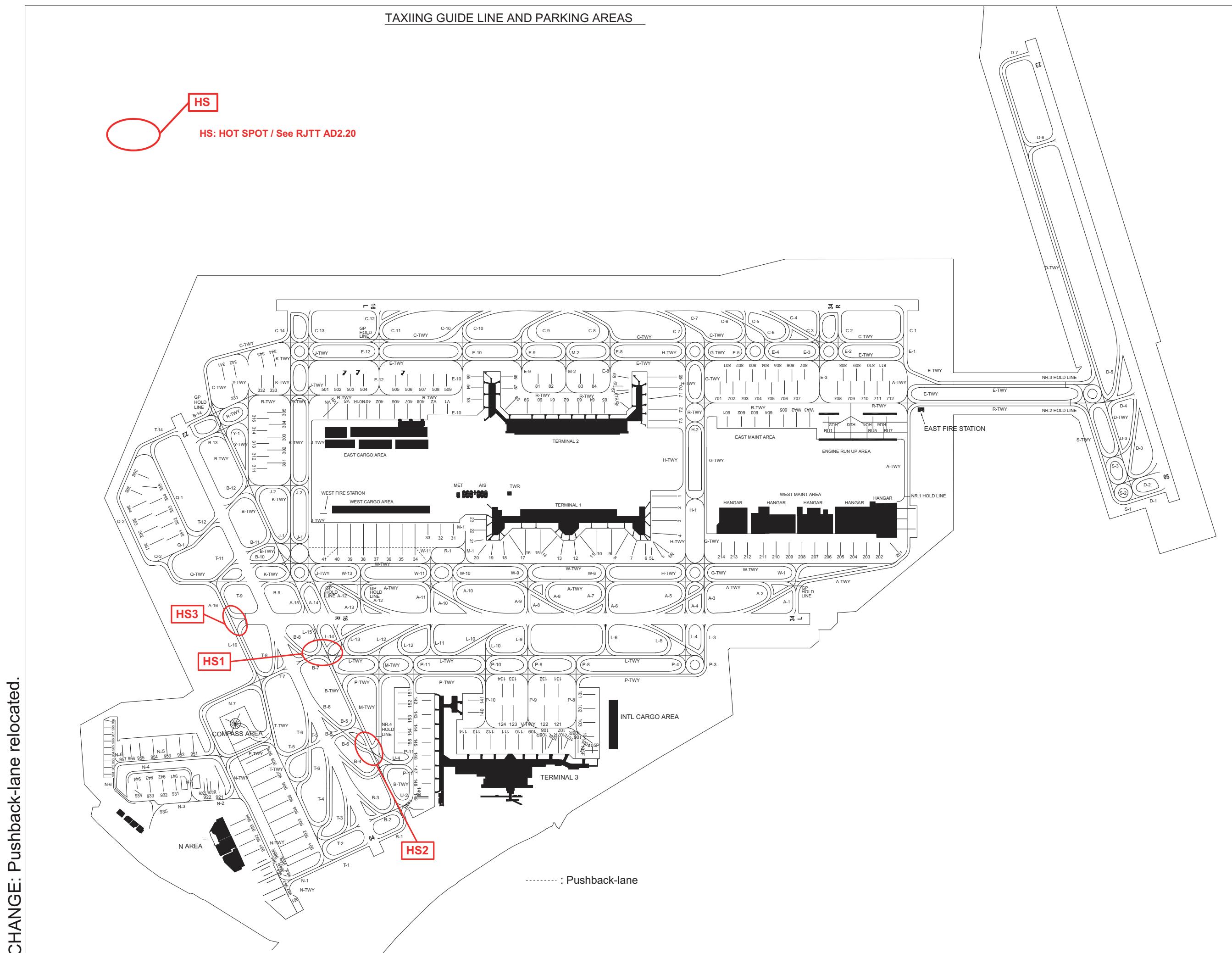


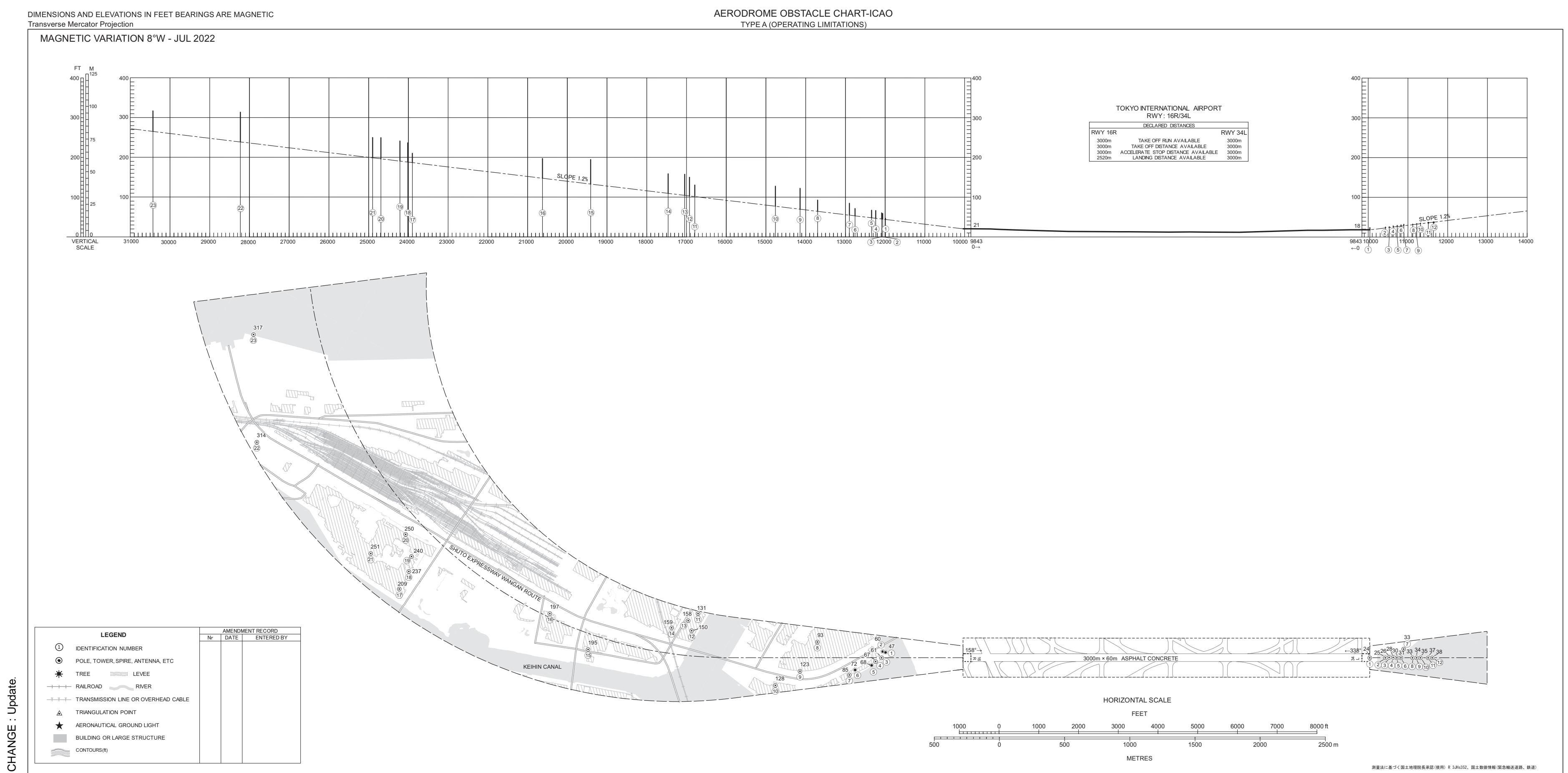
RJTT / TOKYO INTL

AD CHART



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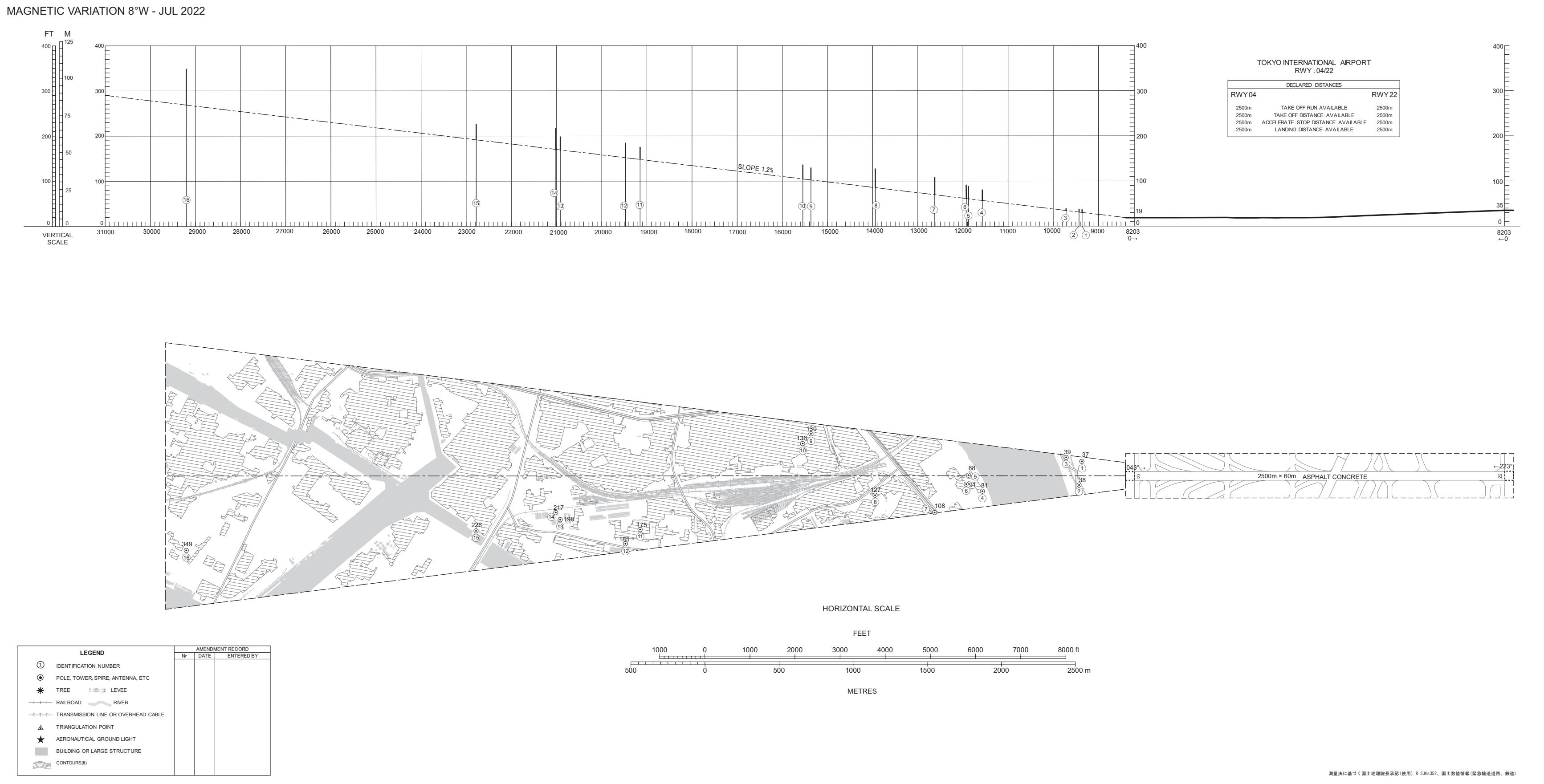




DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICA TYPE A (OPERATING LIMITATIONS)

MAGNETIC VARIATION 8°W - JUL 2022



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

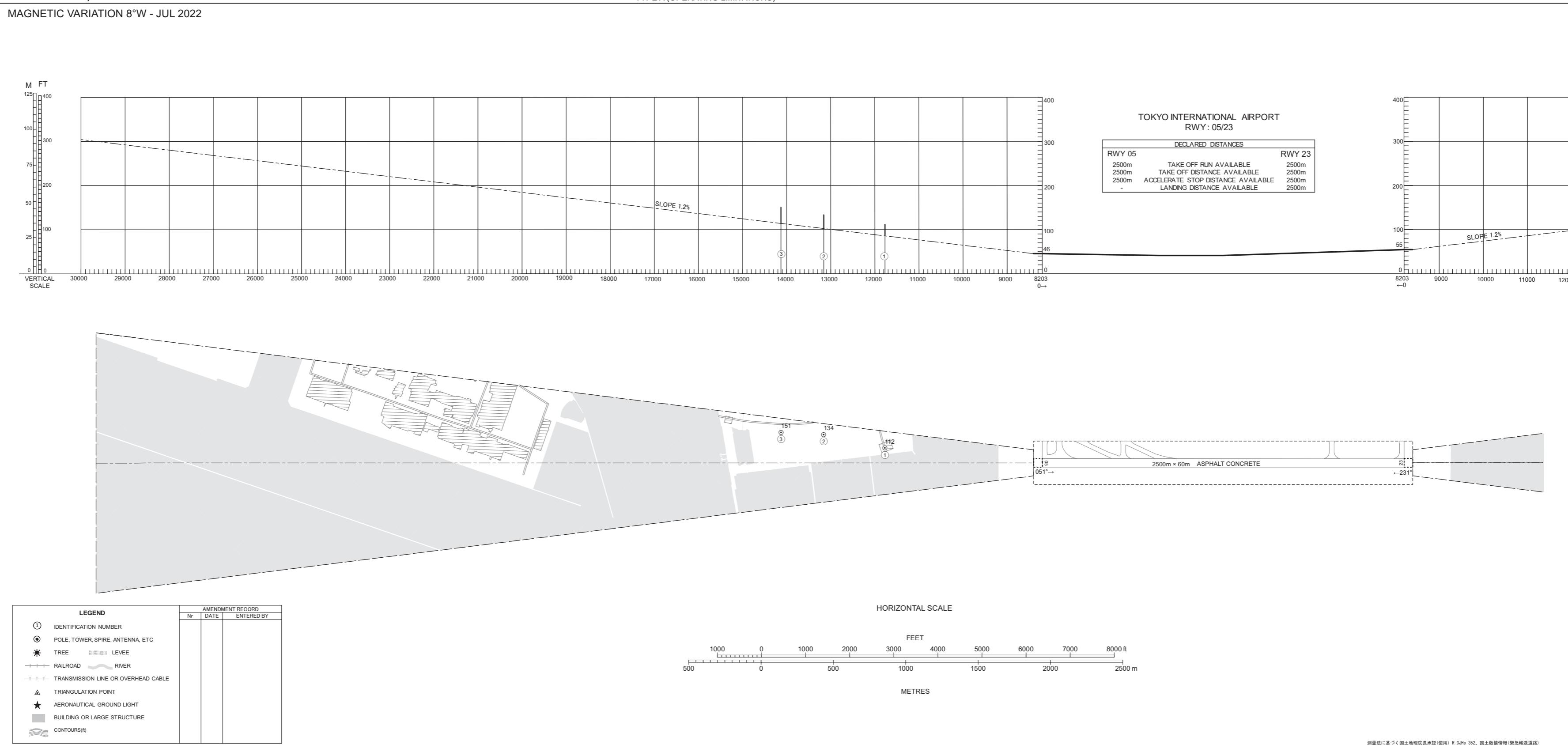
AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATING LIMITATIONS)



DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC
Transverse Mercator Projection

AERODROME OBSTACLE CHART-ICAO
TYPE B



CHANGE : Obstruction added.

PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

SEKIYADO THREE DEPARTURE

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

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

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

Note RWY34R/34L/04: 5.0% climb gradient required up to 700FT.
RWY05: 5.0% climb gradient required up to 500FT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

VADAR ONE DEPARTURE

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

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

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

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

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

OPPAR THREE DEPARTURE

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

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

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

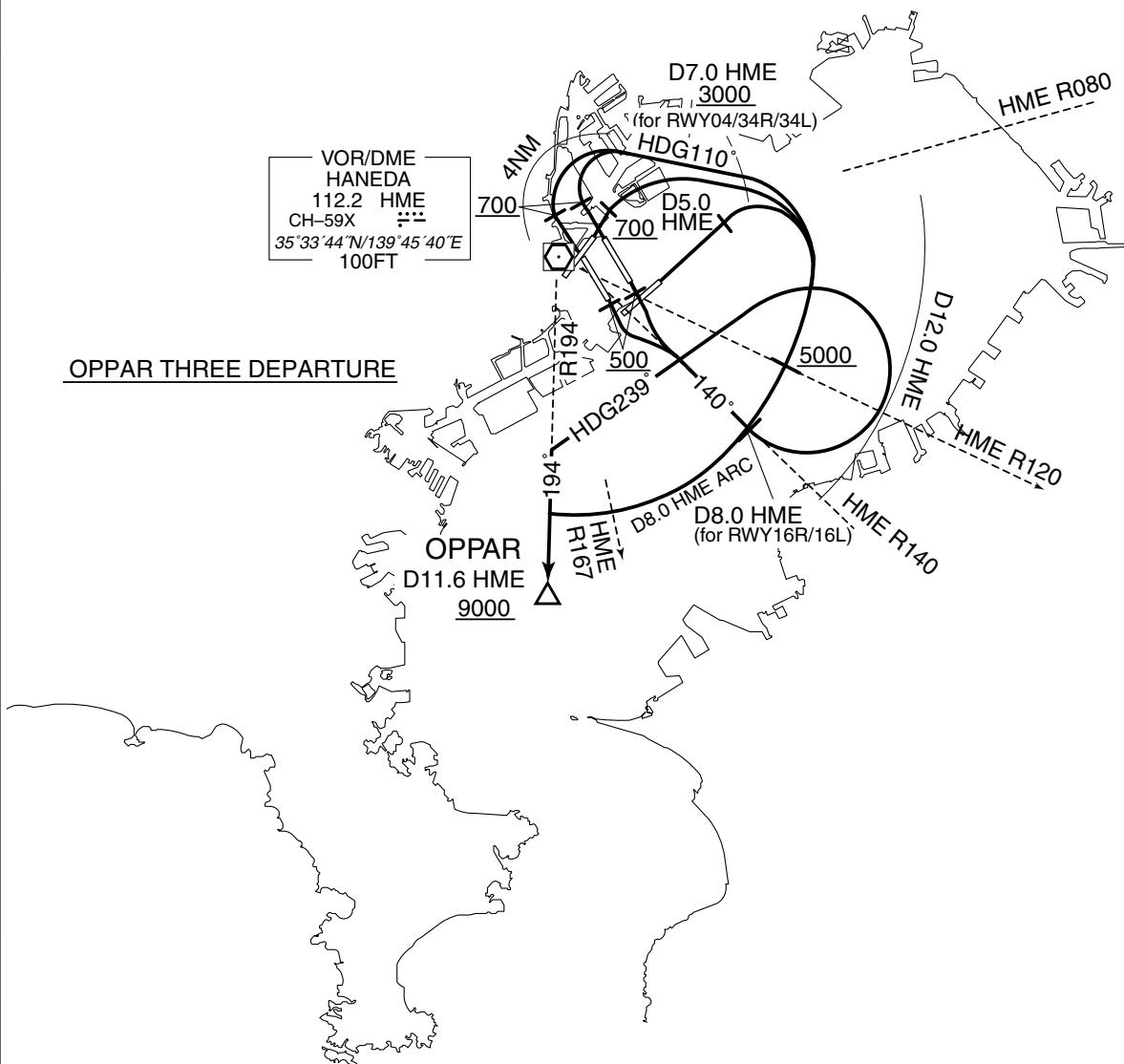
Cross OPPAR at or above 9000FT.

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

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

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

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

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

VAR 7° W(2016)

JYOGA TRANSITION

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

UTIBO TRANSITION

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV TRANSITION

JYOGA TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | OPPAR | — | — | -7.4 | — | — | +9000 | — | — | RNAV1 |
| 002 | TF | JYOGA | — | 224 (217.1) | -7.4 | 16.9 | — | +FL150 | — | — | RNAV1 |

UTIBO TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | OPPAR | — | — | -7.4 | — | — | +9000 | — | — | RNAV1 |
| 002 | TF | UTIBO | — | 170 (162.7) | -7.4 | 26.7 | — | +FL150 | — | — | RNAV1 |

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STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

SID

ISOGO TWO DEPARTURE (FOR PROP ONLY)

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

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

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

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

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT / TOKYO INTL

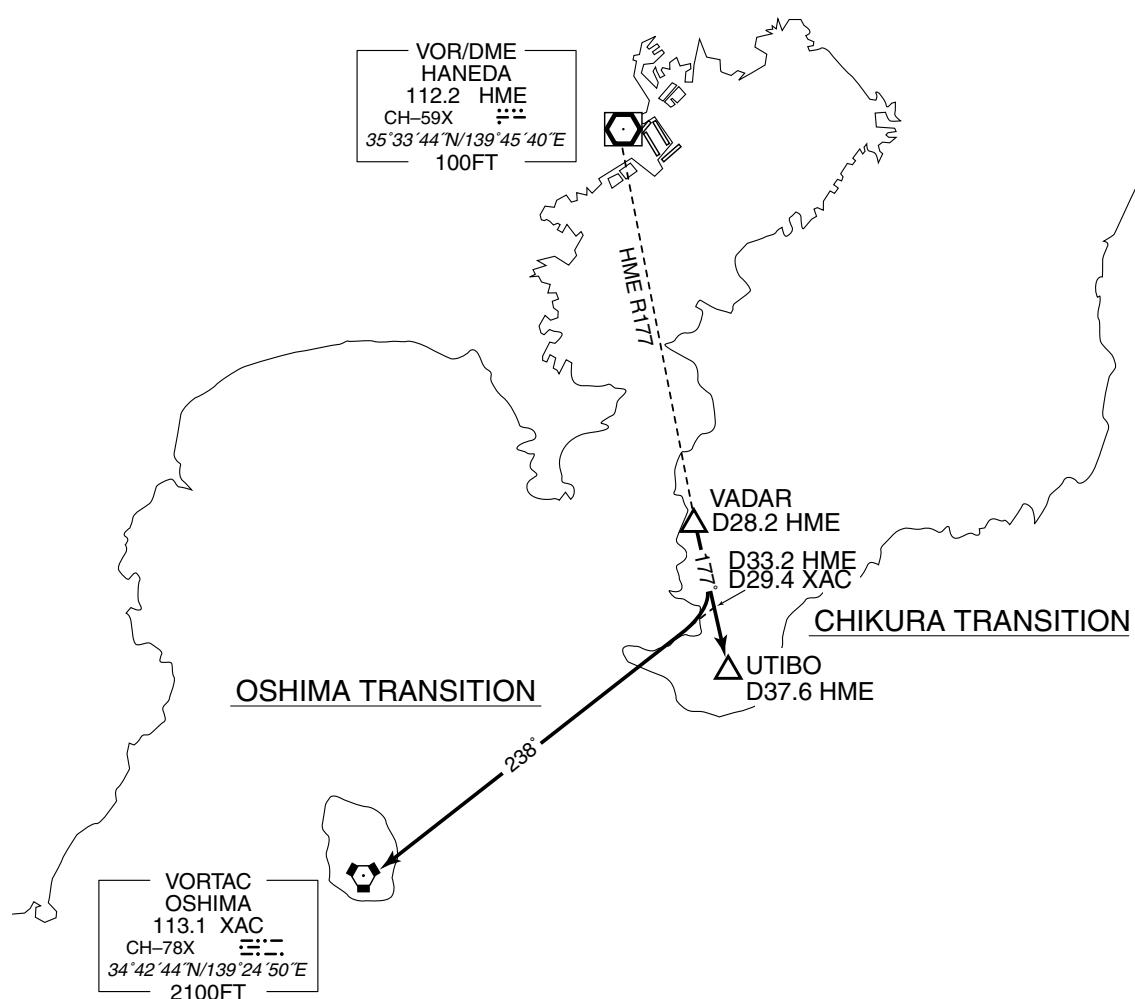
TRANSITION

OSHIMA TRANSITION

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

CHIKURA TRANSITION

From over VADAR, via HME R177 to UTIBO.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

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

VAR8°W(2020)

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS THREE DEPARTURE

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

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

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAMOS THREE DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 207 (199.5) | -7.6 | 14.5 | — | +9000 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L21 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 208 (200.7) | -7.6 | 15.4 | — | +9000 | — | — | RNAV1 |

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 217 (209.5) | -7.6 | 17.3 | — | +9000 | — | — | RNAV1 |

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 043 (034.9) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 217 (209.5) | -7.6 | 17.3 | — | +9000 | — | — | RNAV1 |

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M('T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | VAMOS | — | 217 (209.5) | -7.6 | 17.3 | — | +9000 | — | — | RNAV1 |

RWY22

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M('T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 223 (214.9) | -7.6 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 187 (179.9) | -7.6 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | VAMOS | — | 187 (179.9) | -7.6 | 8.9 | — | +9000 | — | — | RNAV1 |

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

| RJTT/TOKYO INTL | | RNAV TRANSITION |
|--|--|-----------------|
| TATEYAMA TRANSITION / DRAKY TRANSITION | | RNAV1 |
| Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. | Critical DME | — |
| DME GAP | — | — |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | — |
| VAR8°W(2019) | | |
| <p>The chart shows the departure routes from OSHIMA (XAC). The DRAKY TRANSITION route goes from OSHIMA (XAC) to DRAKY via a bearing of 218°, then to VAMOS (9000ft) via a bearing of 222°. The TATEYAMA TRANSITION route goes from OSHIMA (XAC) to TATEYAMA via a bearing of 218°, then to UTIBO via a bearing of 068°. The RNAV1 route goes directly from OSHIMA (XAC) to VAMOS (9000ft) via a bearing of 222°. The chart also includes information for VORTAC OSHIMA (113.1, CH-78X, 34°42'44"N/139°24'50"E, 2100FT), TACAN TATEYAMA (986, CH-25X, 34°58'15"N/139°50'17"E, 500FT), and DME TATEYAMA (1159, CH-72X, 34°56'46"N/139°53'43"E, 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 (157.0) | -7.5 | 16.8 | – | – | – | – | RNAV1 |

DRAKY TRANSITION

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | VAMOS | – | – | -7.5 | – | – | +9000 | – | – | RNAV1 |
| 002 | TF | DRAKY | – | 218 (210.2) | -7.5 | 22.2 | – | – | – | – | RNAV1 |
| 003 | TF | XAC | – | 218 (210.1) | -7.5 | 11.9 | – | – | – | – | RNAV1 |

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

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

VAR8°W(2020)

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS THREE DEPARTURE

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

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

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

LAXAS THREE DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | TAURA | — | 226 (218.1) | -7.6 | 9.0 | — | +9000 | — | — | RNAV1 |
| 004 | TF | IMOLA | — | 228 (220.5) | -7.6 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 005 | TF | LAXAS | — | 266 (258.6) | -7.6 | 12.8 | — | +FL170 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L21 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | TAURA | — | 226 (218.1) | -7.6 | 10.0 | — | +9000 | — | — | RNAV1 |
| 004 | TF | IMOLA | — | 228 (220.5) | -7.6 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 005 | TF | LAXAS | — | 266 (258.6) | -7.6 | 12.8 | — | +FL170 | — | — | RNAV1 |

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

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TAURA | — | 235 (227.3) | -7.6 | 12.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | IMOLA | — | 228 (220.5) | -7.6 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 006 | TF | LAXAS | — | 266 (258.6) | -7.6 | 12.8 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 043 (034.9) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TAURA | — | 235 (227.3) | -7.6 | 12.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | IMOLA | — | 228 (220.5) | -7.6 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 006 | TF | LAXAS | — | 266 (258.6) | -7.6 | 12.8 | — | +FL170 | — | — | RNAV1 |

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TAURA | — | 235 (227.3) | -7.6 | 12.6 | — | +9000 | — | — | RNAV1 |
| 006 | TF | IMOLA | — | 228 (220.5) | -7.6 | 18.8 | — | +FL150 | — | — | RNAV1 |
| 007 | TF | LAXAS | — | 266 (258.6) | -7.6 | 12.8 | — | +FL170 | — | — | RNAV1 |

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY22

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 223 (214.9) | -7.6 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 187 (179.9) | -7.6 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | UMUKI | — | 172 (163.9) | -7.6 | 9.2 | — | — | — | — | RNAV1 |
| 005 | TF | PIPER | — | 235 (227.4) | -7.6 | 3.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SATOL | — | 235 (227.4) | -7.6 | 5.5 | — | — | — | — | RNAV1 |
| 007 | TF | IMOLA | — | 266 (258.7) | -7.6 | 9.1 | — | +FL150 | — | — | RNAV1 |
| 008 | TF | LAXAS | — | 266 (258.6) | -7.6 | 12.8 | — | +FL170 | — | — | RNAV1 |

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

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

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

| NINOX THREE DEPARTURE | | RNAV1 |
|--|--|--------------|
| Note 1) DME/DME/IRU or GNSS required. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | | |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY34L : DER - 0.5NM FM DER RWY04 : DER - 1.7NM FM DER RWY22 : DER - 1.4NM FM DER | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |
| VAR8°W(2020) | | |
| <p>NINOX THREE DEPARTURE</p> | | |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX THREE DEPARTURE

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

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

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

NINOX THREE DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R12 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | TT631 | — | 247 (239.8) | -7.6 | 5.6 | — | — | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 335 (327.0) | -7.6 | 5.0 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 295 (287.8) | -7.6 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.6 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L22 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | TT631 | — | 247 (239.8) | -7.6 | 6.6 | — | — | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 335 (327.0) | -7.6 | 5.0 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 295 (287.8) | -7.6 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.6 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 268 (260.6) | -7.6 | 10.5 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 295 (287.8) | -7.6 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.6 | 16.5 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 043 (034.9) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | BAYGE | — | 268 (260.6) | -7.6 | 10.5 | — | +9000 | — | — | RNAV1 |
| 005 | TF | SEIKO | — | 295 (287.8) | -7.6 | 11.4 | — | +13000 | — | — | RNAV1 |
| 006 | TF | NINOX | — | 281 (272.9) | -7.6 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | BAYGE | — | 268 (260.6) | -7.6 | 10.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SEIKO | — | 295 (287.8) | -7.6 | 11.4 | — | +13000 | — | — | RNAV1 |
| 007 | TF | NINOX | — | 281 (272.9) | -7.6 | 16.5 | — | +FL170 | — | — | RNAV1 |

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY22

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M('T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 223 (214.9) | -7.6 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 187 (179.9) | -7.6 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | UMUKI | — | 172 (163.9) | -7.6 | 9.2 | — | — | — | — | RNAV1 |
| 005 | TF | PIPER | — | 235 (227.4) | -7.6 | 3.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SATOL | — | 235 (227.4) | -7.6 | 5.5 | — | — | — | — | RNAV1 |
| 007 | TF | CURVA | — | 300 (292.2) | -7.6 | 8.2 | — | +FL150 | — | — | RNAV1 |
| 008 | TF | NINOX | — | 327 (319.6) | -7.6 | 27.1 | — | +FL170 | — | — | RNAV1 |

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

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

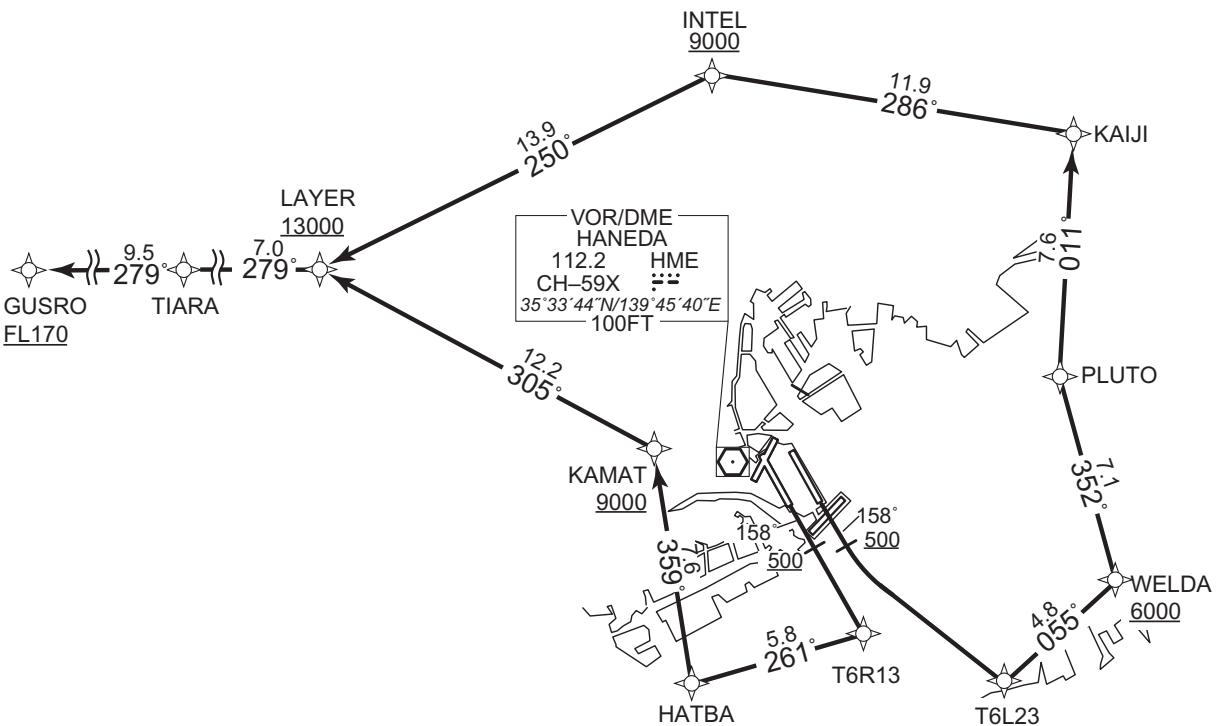
RNAV SID

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

VAR8°W

TIARA ONE A DEPARTURE RWY16R/16L

CHANGE : New PROC.

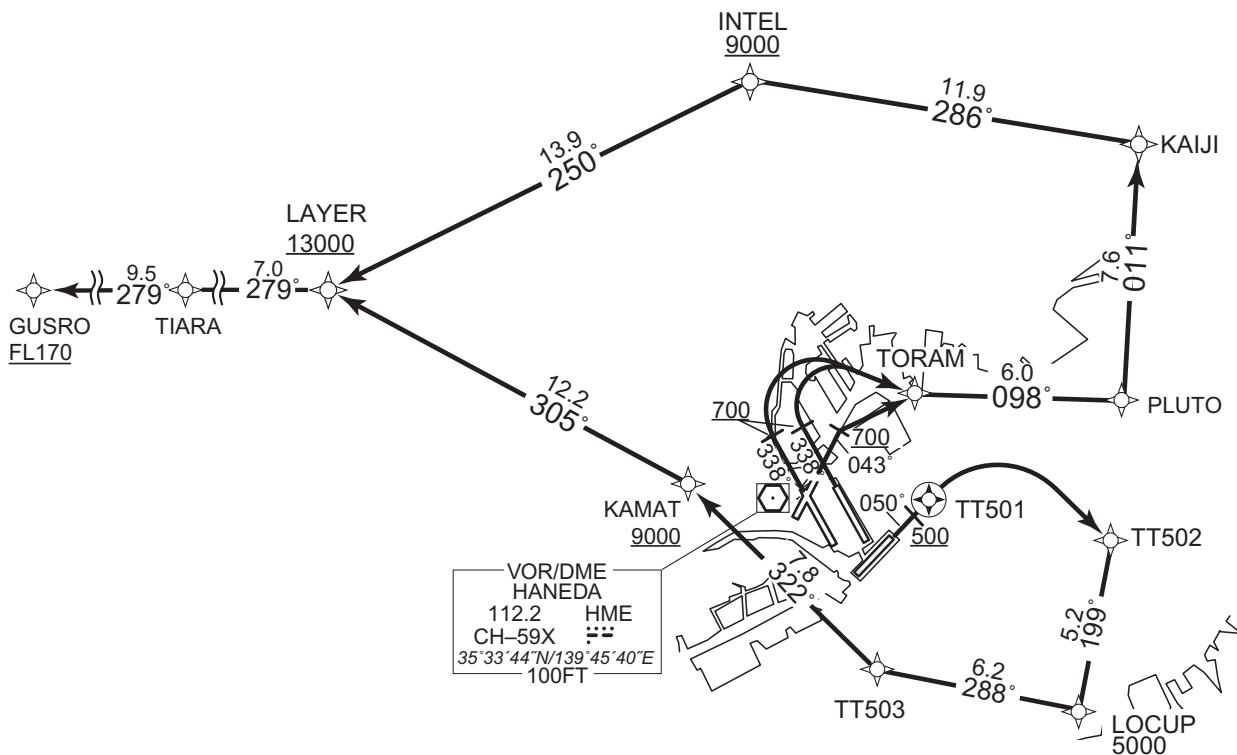


STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE A DEPARTURE

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

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

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

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

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

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

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE A DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 261 (253.8) | -7.6 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.6 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.6 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.6 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 250 (242.4) | -7.6 | 13.9 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 098 (090.7) | -7.6 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 250 (242.4) | -7.6 | 13.9 | — | +13000 | — | — | RNAV1 |
| 007 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 043 (034.9) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 098 (090.7) | -7.6 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 250 (242.4) | -7.6 | 13.9 | — | +13000 | — | — | RNAV1 |
| 007 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 288 (280.8) | -7.6 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.6 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.6 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

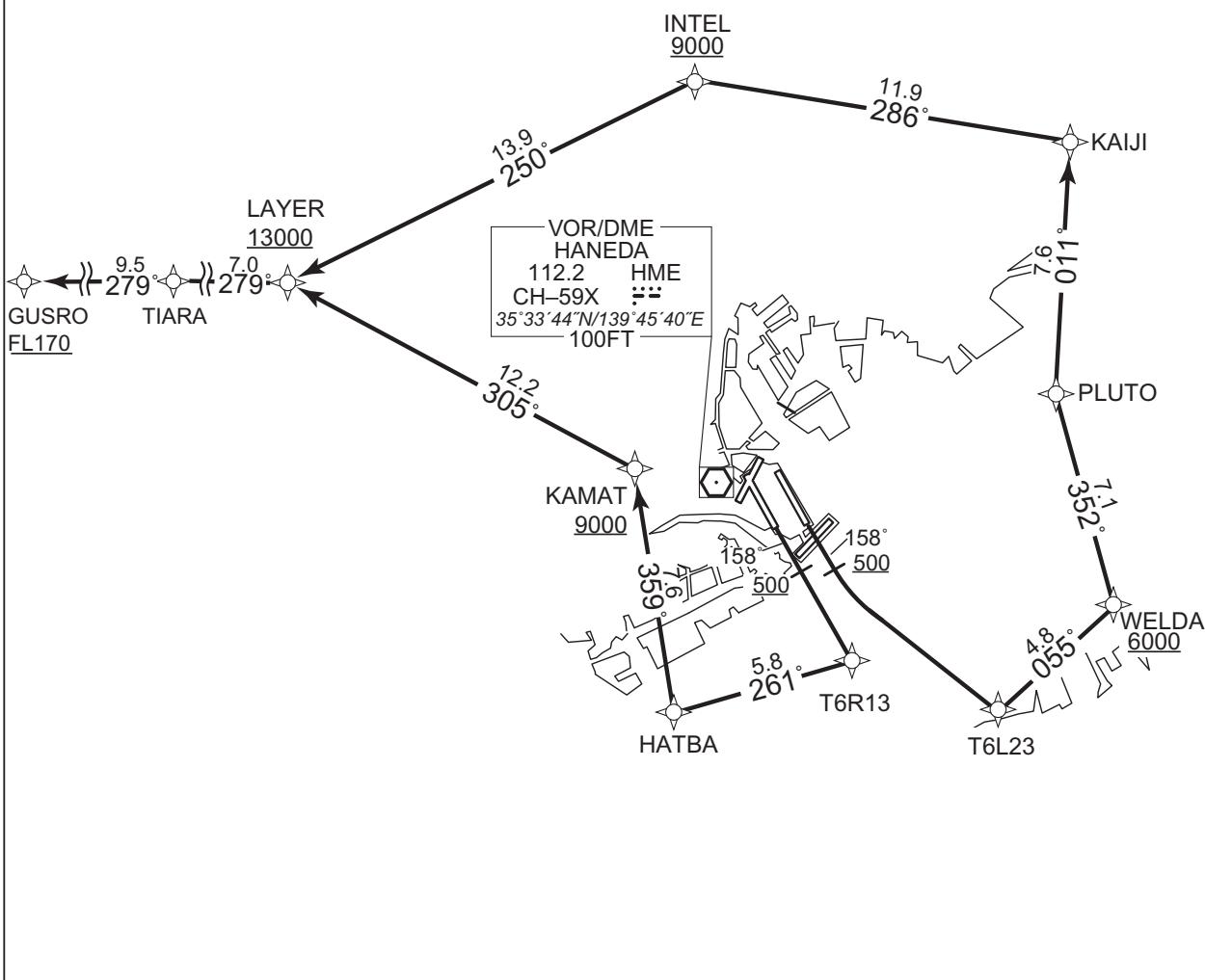
RJTT/TOKYO INTL

RNAV SID

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

VAR8°W

TIARA ONE B DEPARTURE RWY16R/16L



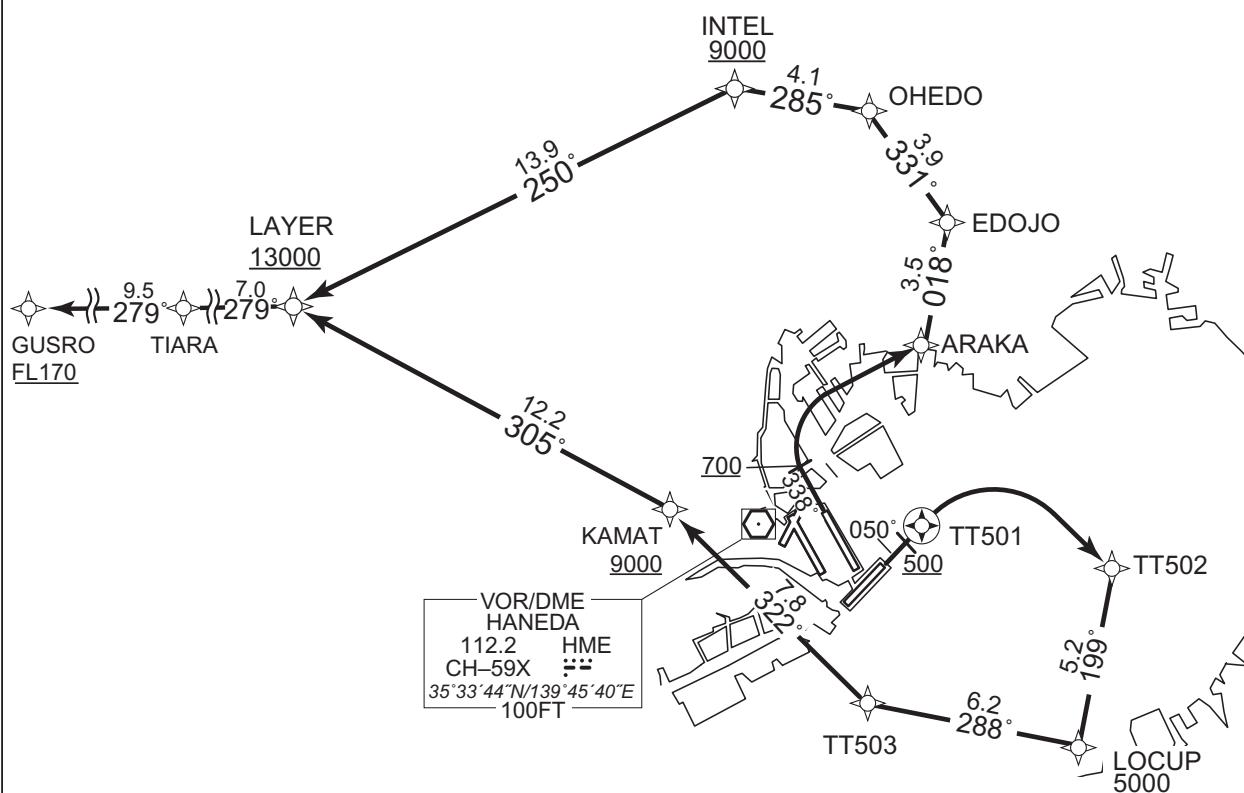
STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

TIARA ONE B DEPARTURE RWY 34R/05



CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE B DEPARTURE

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

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

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

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

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

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE B DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 158 (150.0) | -7.6 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6R13 | – | – | -7.6 | – | – | – | – | – | RNAV1 |
| 003 | TF | HATBA | – | 261 (253.8) | -7.6 | 5.8 | – | – | – | – | RNAV1 |
| 004 | TF | KAMAT | – | 359 (351.1) | -7.6 | 7.6 | – | +9000 | – | – | RNAV1 |
| 005 | TF | LAYER | – | 305 (297.1) | -7.6 | 12.2 | – | +13000 | – | – | RNAV1 |
| 006 | TF | TIARA | – | 279 (271.2) | -7.6 | 7.0 | – | – | – | – | RNAV1 |
| 007 | TF | GUSRO | – | 279 (271.1) | -7.6 | 9.5 | – | +FL170 | – | – | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 158 (150.0) | -7.6 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6L23 | – | – | -7.6 | – | L | – | – | – | RNAV1 |
| 003 | TF | WELDA | – | 055 (047.3) | -7.6 | 4.8 | – | +6000 | – | – | RNAV1 |
| 004 | TF | PLUTO | – | 352 (344.5) | -7.6 | 7.1 | – | – | – | – | RNAV1 |
| 005 | TF | KAIJI | – | 011 (003.0) | -7.6 | 7.6 | – | – | – | – | RNAV1 |
| 006 | TF | INTEL | – | 286 (278.4) | -7.6 | 11.9 | – | +9000 | – | – | RNAV1 |
| 007 | TF | LAYER | – | 250 (242.4) | -7.6 | 13.9 | – | +13000 | – | – | RNAV1 |
| 008 | TF | TIARA | – | 279 (271.2) | -7.6 | 7.0 | – | – | – | – | RNAV1 |
| 009 | TF | GUSRO | – | 279 (271.1) | -7.6 | 9.5 | – | +FL170 | – | – | RNAV1 |

RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 338 (330.0) | -7.6 | – | – | +700 | – | – | RNAV1 |
| 002 | DF | ARAKA | – | – | -7.6 | – | R | – | – | – | RNAV1 |
| 003 | TF | EDOJO | – | 018 (010.8) | -7.6 | 3.5 | – | – | – | – | RNAV1 |
| 004 | TF | OHEDO | – | 331 (323.7) | -7.6 | 3.9 | – | – | – | – | RNAV1 |
| 005 | TF | INTEL | – | 285 (277.0) | -7.6 | 4.1 | – | +9000 | – | – | RNAV1 |
| 006 | TF | LAYER | – | 250 (242.4) | -7.6 | 13.9 | – | +13000 | – | – | RNAV1 |
| 007 | TF | TIARA | – | 279 (271.2) | -7.6 | 7.0 | – | – | – | – | RNAV1 |
| 008 | TF | GUSRO | – | 279 (271.1) | -7.6 | 9.5 | – | +FL170 | – | – | RNAV1 |

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 288 (280.8) | -7.6 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.6 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.6 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

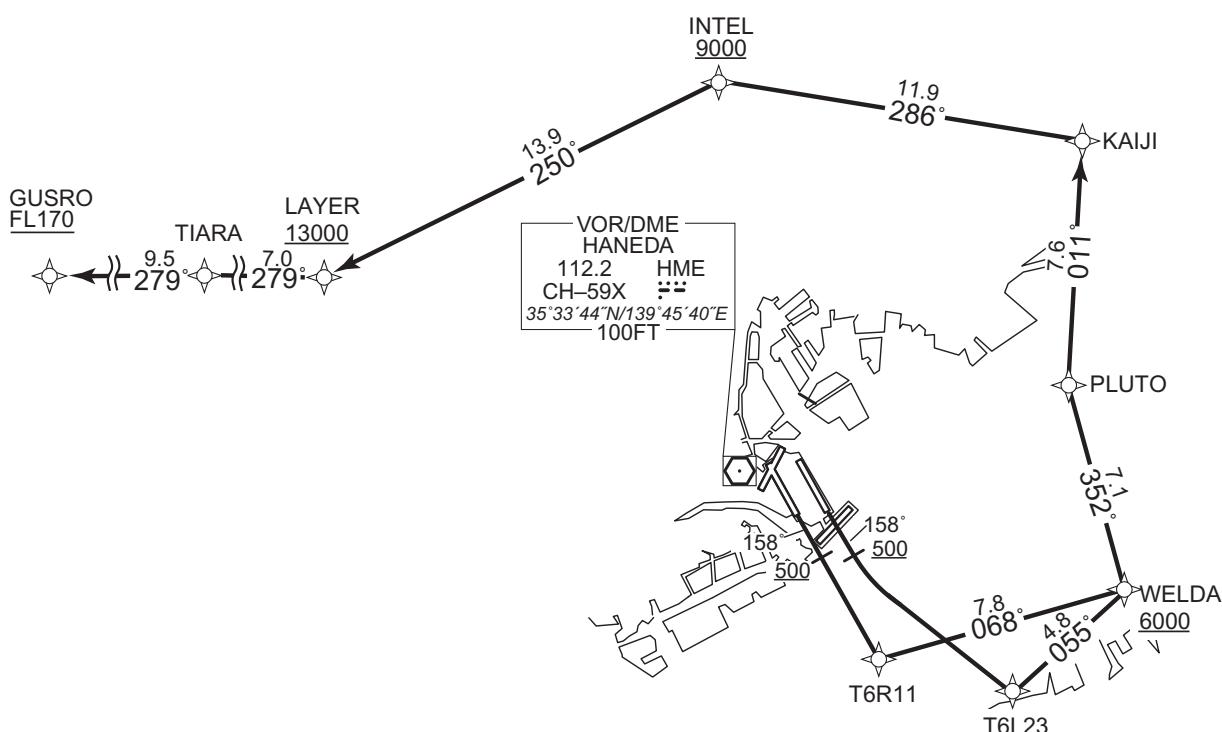
RJTT/TOKYO INTL

RNAV SID

| TIARA ONE C DEPARTURE | | | RNAV1 |
|---|--|--------------|--|
| <p>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.</p> <p>2) RADAR service required.</p> | | | |
| 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 | <p>RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER</p> <p>RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23 PQD 6.6NM to KAIJI - KAIJI NRE 6.9NM to INTEL - 6.9NM to LAYER</p> <p>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</p> |
| Inappropriate Nav aids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | | |

VAR8°W

TIARA ONE C DEPARTURE RWY16R/16L



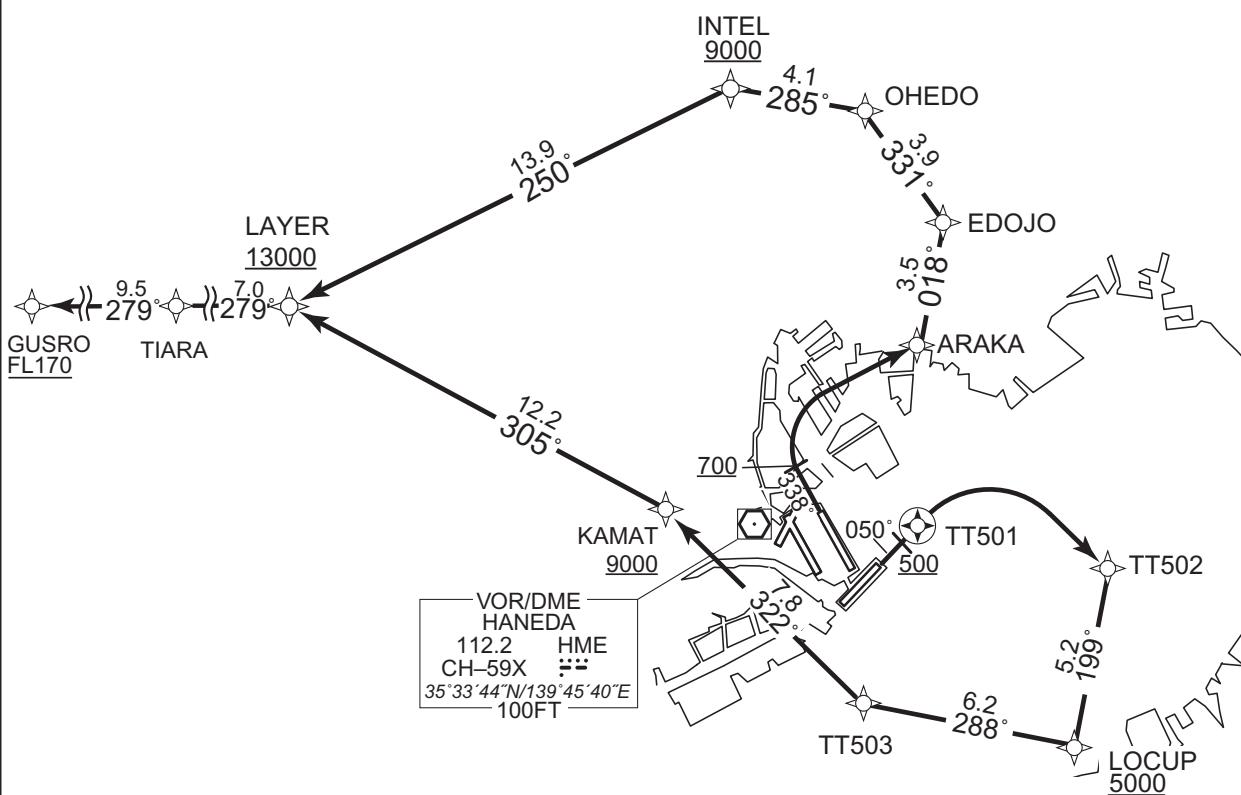
CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

TIARA ONE C DEPARTURE RWY 34R/05

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE C DEPARTURE

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

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

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

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

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

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

TIARA ONE C DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 068 (060.6) | -7.6 | 7.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 250 (242.4) | -7.6 | 13.9 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.6 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 250 (242.4) | -7.6 | 13.9 | — | +13000 | — | — | RNAV1 |
| 008 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 009 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 018 (010.8) | -7.6 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 331 (323.7) | -7.6 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 285 (277.0) | -7.6 | 4.1 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 250 (242.4) | -7.6 | 13.9 | — | +13000 | — | — | RNAV1 |
| 007 | TF | TIARA | — | 279 (271.2) | -7.6 | 7.0 | — | — | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.1) | -7.6 | 9.5 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| RWY05 | | | | | | | | | | | |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
| 001 | VA | - | - | 050 (042.4) | -7.6 | - | - | +500 | - | - | RNAV1 |
| 002 | DF | TT501 | Y | - | -7.6 | - | - | - | - | - | RNAV1 |
| 003 | DF | TT502 | - | - | -7.6 | - | R | - | - | - | RNAV1 |
| 004 | TF | LOCUP | - | 199 (190.9) | -7.6 | 5.2 | - | +5000 | - | - | RNAV1 |
| 005 | TF | TT503 | - | 288 (280.8) | -7.6 | 6.2 | - | - | - | - | RNAV1 |
| 006 | TF | KAMAT | - | 322 (314.2) | -7.6 | 7.8 | - | +9000 | - | - | RNAV1 |
| 007 | TF | LAYER | - | 305 (297.1) | -7.6 | 12.2 | - | +13000 | - | - | RNAV1 |
| 008 | TF | TIARA | - | 279 (271.2) | -7.6 | 7.0 | - | - | - | - | RNAV1 |
| 009 | TF | GUSRO | - | 279 (271.1) | -7.6 | 9.5 | - | +FL170 | - | - | RNAV1 |

Waypoint Coordinates

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

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

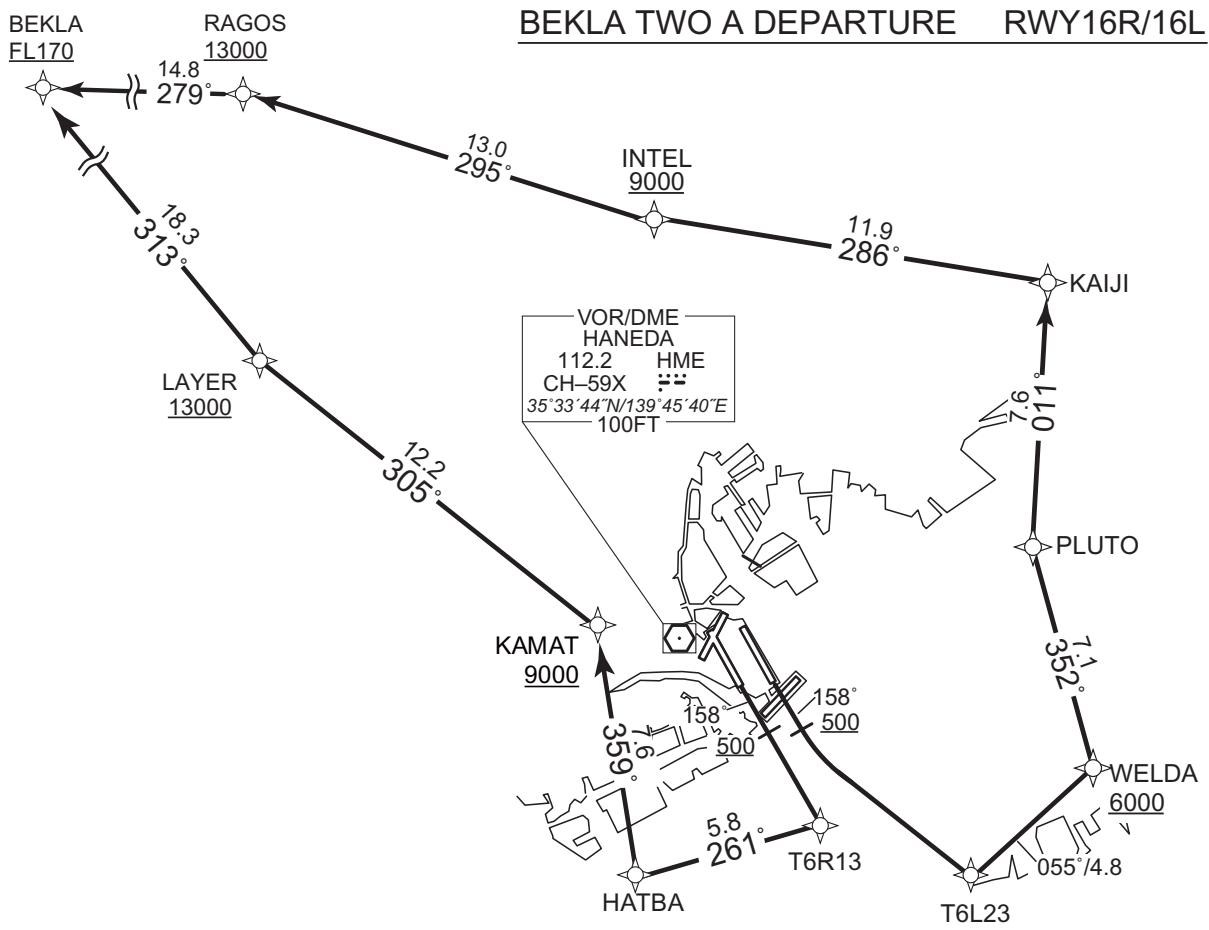
RJTT/TOKYO INTL

RNAV SID

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

VAR8°W(2020)

CHANGE : PROC renamed. VAR. RTE after KAMAT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W(2020)

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

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO A DEPARTURE

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

BEKLA TWO A DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 261 (253.8) | -7.6 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.6 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.6 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | BEKLA | — | 313 (305.4) | -7.6 | 18.3 | — | +FL170 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.6 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 007 | TF | RAGOS | — | 295 (287.2) | -7.6 | 13.0 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 279 (271.2) | -7.6 | 14.8 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 098 (090.7) | -7.6 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | RAGOS | — | 295 (287.2) | -7.6 | 13.0 | — | +13000 | — | — | RNAV1 |
| 007 | TF | BEKLA | — | 279 (271.2) | -7.6 | 14.8 | — | +FL170 | — | — | RNAV1 |

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| RWY04 | | | | | | | | | | | |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
| 001 | VA | — | — | 043 (034.9) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 098 (090.7) | -7.6 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | INTEL | — | 286 (278.4) | -7.6 | 11.9 | — | +9000 | — | — | RNAV1 |
| 006 | TF | RAGOS | — | 295 (287.2) | -7.6 | 13.0 | — | +13000 | — | — | RNAV1 |
| 007 | TF | BEKLA | — | 279 (271.2) | -7.6 | 14.8 | — | +FL170 | — | — | RNAV1 |

| RWY05 | | | | | | | | | | | |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.6 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 288 (280.8) | -7.6 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.6 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.6 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | BEKLA | — | 313 (305.4) | -7.6 | 18.3 | — | +FL170 | — | — | RNAV1 |

Waypoint Coordinates

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

CHANGE : Magnetic Variation. RWY04: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

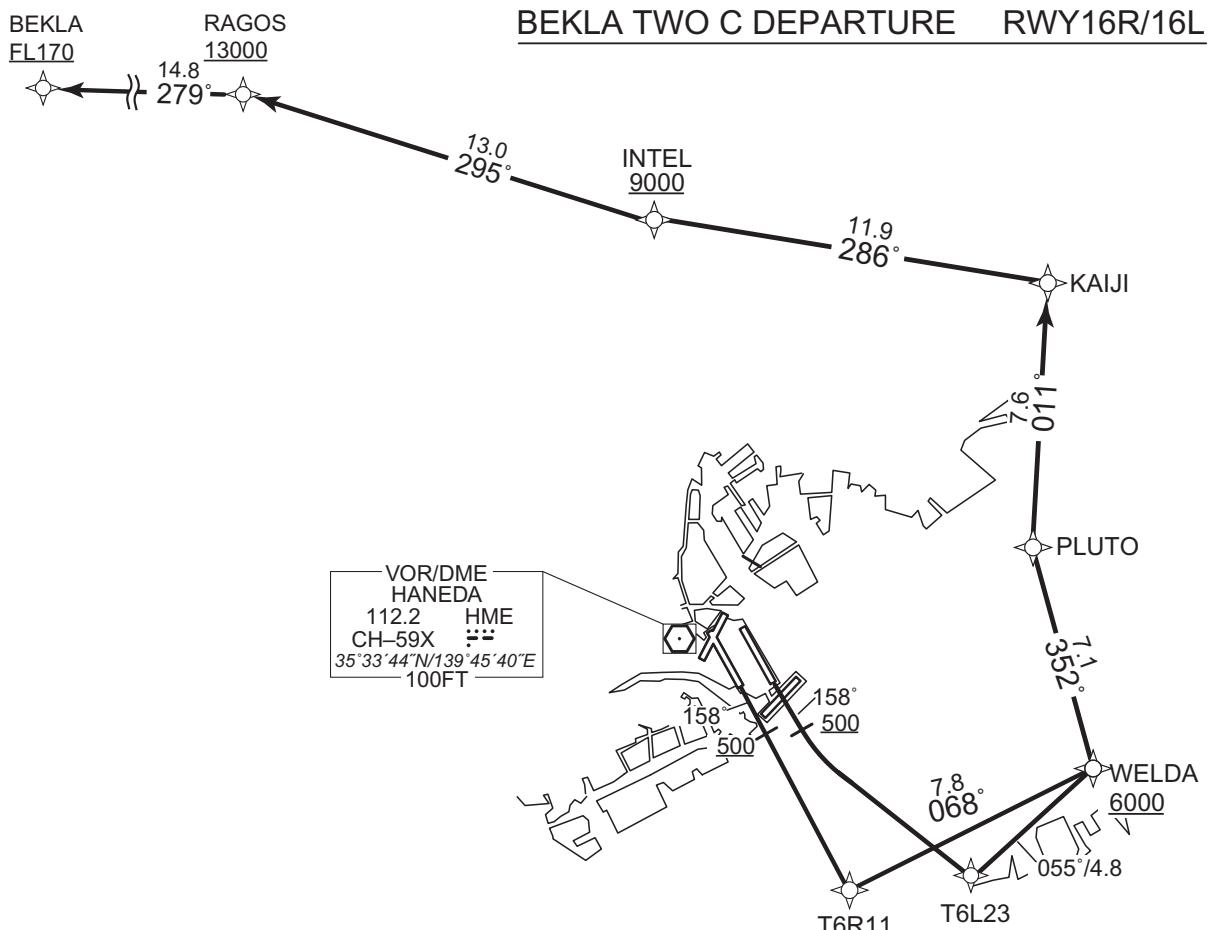
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | OHEDO | 354523.4N / 1394838.6E |
| BEKLA | 354958.7N / 1391009.5E | PLUTO | 353632.1N / 1395736.8E |
| 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. ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling. 2) RADAR service required. | | |
| DME GAP | RWY16R : DER - 1.2NM FM DER RWY16L : DER - 1.0NM FM DER RWY34R : DER - 1.0NM FM DER RWY05 : 3.8NM to KAMAT - 1.8NM to KAMAT | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | |

VAR8°W(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

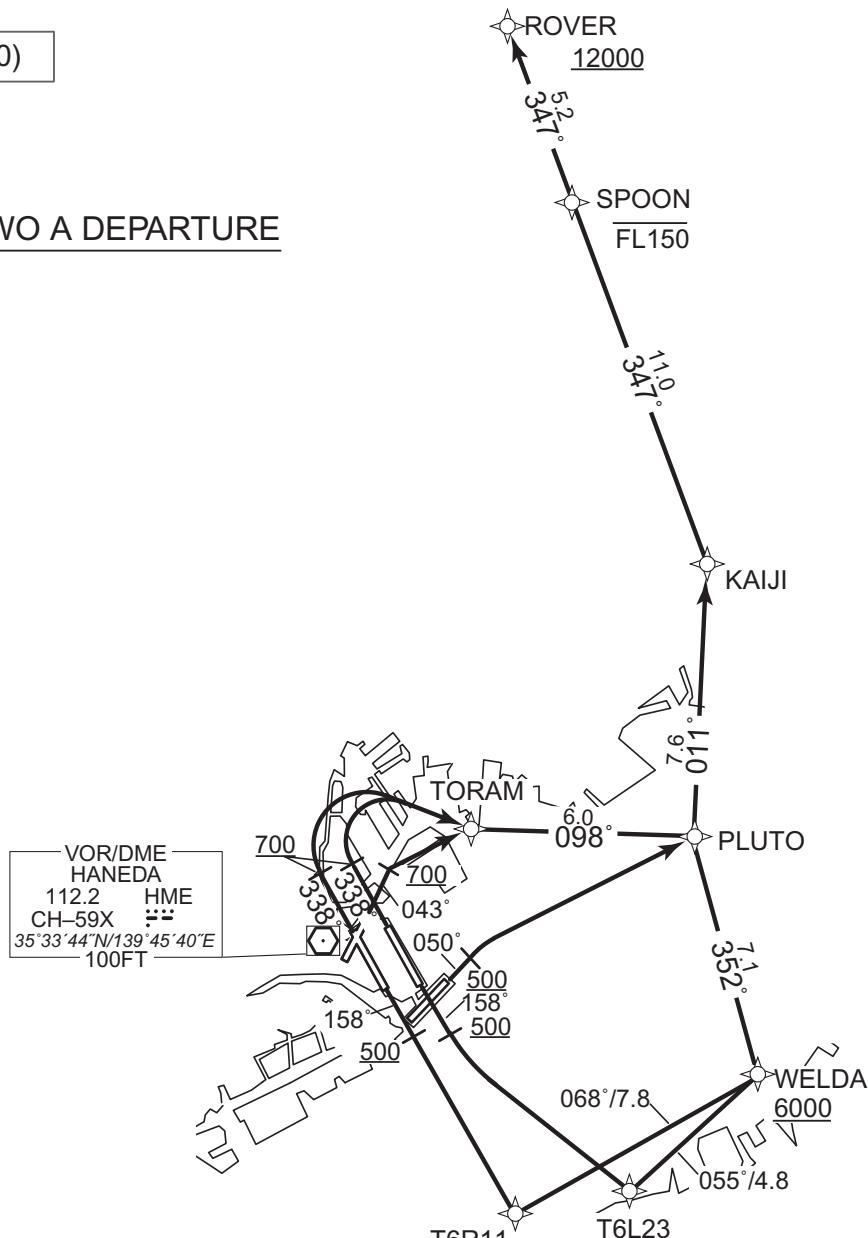
RNAV SID

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

VAR8°W(2020)

ROVER TWO A DEPARTURE

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO A DEPARTURE

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO A DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 158 (150.0) | -7.6 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6R11 | – | – | -7.6 | – | – | – | – | – | RNAV1 |
| 003 | TF | WELDA | – | 068 (060.6) | -7.6 | 7.8 | – | +6000 | – | – | RNAV1 |
| 004 | TF | PLUTO | – | 352 (344.5) | -7.6 | 7.1 | – | – | – | – | RNAV1 |
| 005 | TF | KAIJI | – | 011 (003.0) | -7.6 | 7.6 | – | – | – | – | RNAV1 |
| 006 | TF | SPOON | – | 347 (339.2) | -7.6 | 11.0 | – | -FL150 | – | – | RNAV1 |
| 007 | TF | ROVER | – | 347 (339.1) | -7.6 | 5.2 | – | +12000 | – | – | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 158 (150.0) | -7.6 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | T6L23 | – | – | -7.6 | – | L | – | – | – | RNAV1 |
| 003 | TF | WELDA | – | 055 (047.3) | -7.6 | 4.8 | – | +6000 | – | – | RNAV1 |
| 004 | TF | PLUTO | – | 352 (344.5) | -7.6 | 7.1 | – | – | – | – | RNAV1 |
| 005 | TF | KAIJI | – | 011 (003.0) | -7.6 | 7.6 | – | – | – | – | RNAV1 |
| 006 | TF | SPOON | – | 347 (339.2) | -7.6 | 11.0 | – | -FL150 | – | – | RNAV1 |
| 007 | TF | ROVER | – | 347 (339.1) | -7.6 | 5.2 | – | +12000 | – | – | RNAV1 |

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 338 (330.0) | -7.6 | – | – | +700 | – | – | RNAV1 |
| 002 | DF | TORAM | – | – | -7.6 | – | R | – | – | – | RNAV1 |
| 003 | TF | PLUTO | – | 098 (090.7) | -7.6 | 6.0 | – | – | – | – | RNAV1 |
| 004 | TF | KAIJI | – | 011 (003.0) | -7.6 | 7.6 | – | – | – | – | RNAV1 |
| 005 | TF | SPOON | – | 347 (339.2) | -7.6 | 11.0 | – | -FL150 | – | – | RNAV1 |
| 006 | TF | ROVER | – | 347 (339.1) | -7.6 | 5.2 | – | +12000 | – | – | RNAV1 |

CHANGE : PROC renamed. Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 043 (034.9) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TORAM | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | PLUTO | — | 098 (090.7) | -7.6 | 6.0 | — | — | — | — | RNAV1 |
| 004 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 006 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | PLUTO | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 005 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

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

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO B DEPARTURE

RNAV1

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

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

2) RADAR service required.

DME GAP

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

Inappropriate Navaids

See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

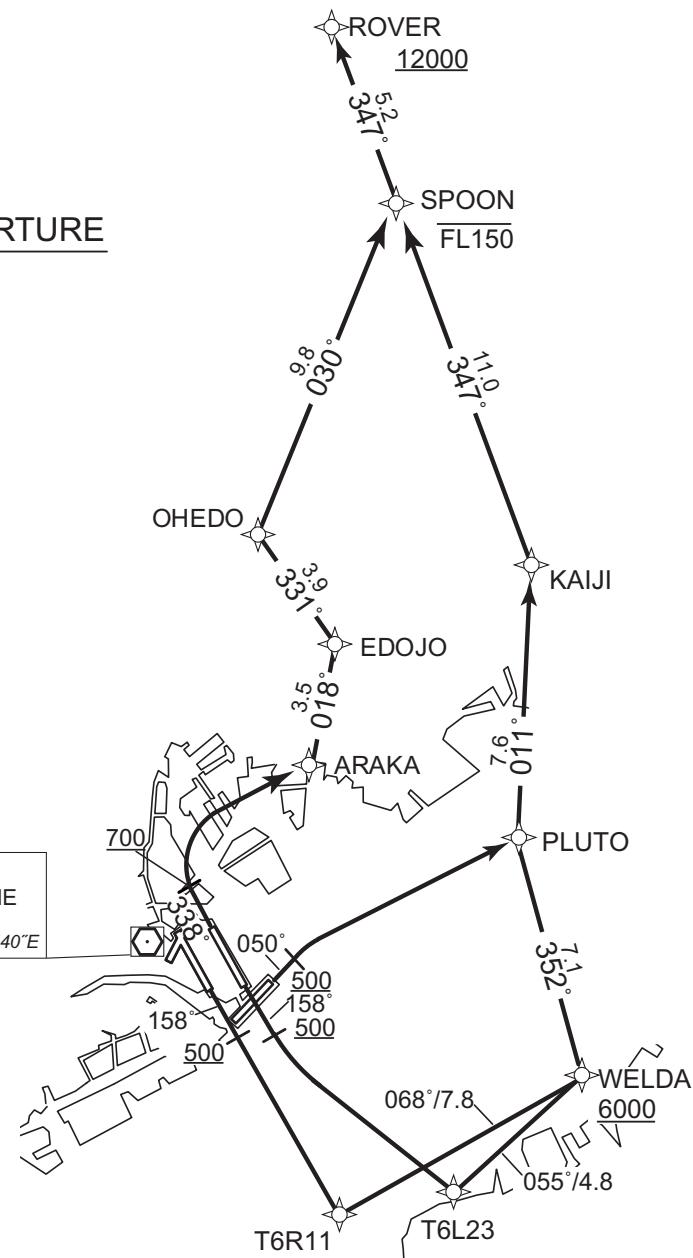
RWY16R : HME 1.2NM FM DER - 1.9NM to T6R11
PQD 6.6NM to KAIJI - KAIJI
RWY16L : HME 1.0NM FM DER - 3.5NM to T6L23
PQD 6.6NM to KAIJI - KAIJI
RWY05 : HME DER - 2.2NM to PLUTO
PQD 6.6NM to KAIJI - KAIJI

VAR8°W(2020)

ROVER TWO B DEPARTURE

CHANGE : PROC renamed.

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO B DEPARTURE

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

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

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

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

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

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

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO B DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 068 (060.6) | -7.6 | 7.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 007 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L23 | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 055 (047.3) | -7.6 | 4.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 007 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 018 (010.8) | -7.6 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 331 (323.7) | -7.6 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | SPOON | — | 030 (022.4) | -7.6 | 9.8 | — | -FL150 | — | — | RNAV1 |
| 006 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | PLUTO | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 005 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

Waypoint Coordinates

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

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO C DEPARTURE

RNAV1

Note 1) DME/DME/IRU or GNSS required.
 ※The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting point of take-off rolling.
 2) RADAR service required.

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

Inappropriate Navaids
 See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1

Critical DME

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

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

VAR8°W(2020)

ROVER TWO C DEPARTURE

CHANGE : PROC renamed.



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO C DEPARTURE

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

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

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

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

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

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

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

ROVER TWO C DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | WELDA | — | 068 (060.6) | -7.6 | 7.8 | — | +6000 | — | — | RNAV1 |
| 004 | TF | PLUTO | — | 352 (344.5) | -7.6 | 7.1 | — | — | — | — | RNAV1 |
| 005 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 007 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L31 | — | — | -7.6 | — | L | — | — | — | RNAV1 |
| 003 | TF | DAMBO | — | 055 (047.5) | -7.6 | 8.7 | — | — | — | — | RNAV1 |
| 004 | TF | T6L32 | — | 317 (309.4) | -7.6 | 6.2 | — | — | — | — | RNAV1 |
| 005 | TF | LESMO | — | 002 (354.1) | -7.6 | 3.0 | — | +8000 | — | — | RNAV1 |
| 006 | TF | KAIJI | — | 002 (354.1) | -7.6 | 3.0 | — | — | — | — | RNAV1 |
| 007 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 008 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.6 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | ARAKA | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | EDOJO | — | 018 (010.8) | -7.6 | 3.5 | — | — | — | — | RNAV1 |
| 004 | TF | OHEDO | — | 331 (323.7) | -7.6 | 3.9 | — | — | — | — | RNAV1 |
| 005 | TF | SPOON | — | 030 (022.4) | -7.6 | 9.8 | — | -FL150 | — | — | RNAV1 |
| 006 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

CHANGE : PROC renamed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | PLUTO | — | — | -7.6 | — | R | — | — | — | RNAV1 |
| 003 | TF | KAIJI | — | 011 (003.0) | -7.6 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | SPOON | — | 347 (339.2) | -7.6 | 11.0 | — | -FL150 | — | — | RNAV1 |
| 005 | TF | ROVER | — | 347 (339.1) | -7.6 | 5.2 | — | +12000 | — | — | RNAV1 |

Waypoint Coordinates

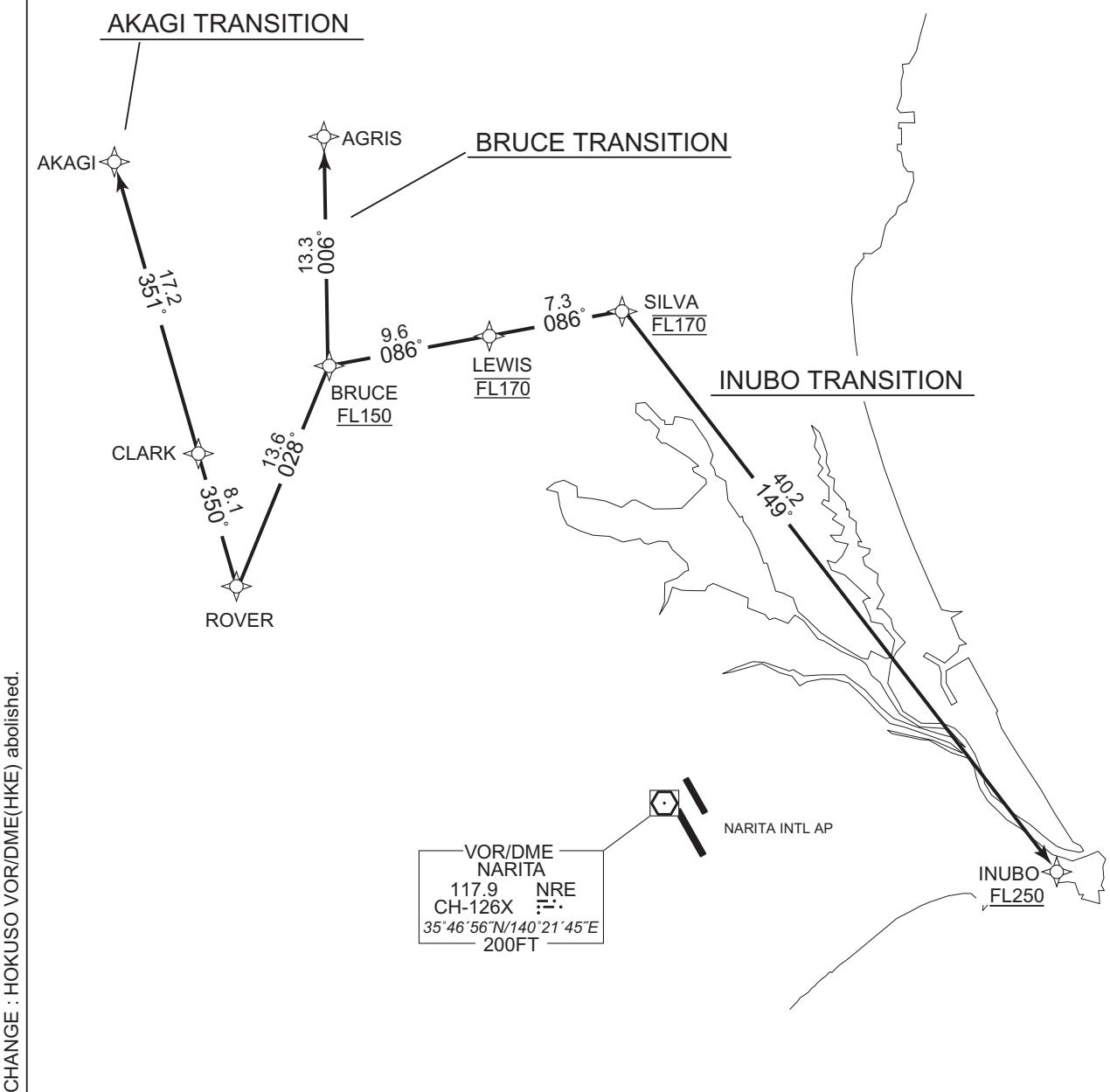
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| ARAKA | 353848.8N / 1395041.9E | ROVER | 355918.3N / 1395059.3E |
| DAMBO | 353416.5N / 1400443.4E | SPOON | 355428.3N / 1395316.0E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

CHANGE : Magnetic Variation.

STANDARD DEPARTURE CHART-INSTRUMENT

| RJTT/TOKYO INTL | | RNAV TRANSITION |
|---|--|-----------------|
| AKAGI TRANSITION / BRUCE TRANSITION/ INUBO TRANSITION | | RNAV1 |
| Note 1) DME/DME/IRU or GNSS required. | | |
| 2) RADAR service required. | | |
| DME GAP | - | Critical DME |
| Inappropriate Navaids | See AD1.1.6.10.3.Inappropriate NAVAIDs for RNAV1 | - |

VAR8°W(2019)



CHANGE : HOKUSO VOR/DME(HKE) abdissed.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV TRANSITION

AKAGI TRANSITION

From ROVER, to CLARK, to AKAGI.

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | ROVER | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLARK | — | 350 (342.7) | -7.5 | 8.1 | — | — | — | — | RNAV1 |
| 003 | TF | AKAGI | — | 351 (343.4) | -7.5 | 17.2 | — | — | — | — | RNAV1 |

BRUCE TRANSITION

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | ROVER | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | BRUCE | — | 028 (020.7) | -7.5 | 13.6 | — | +FL150 | — | — | RNAV1 |
| 003 | TF | AGRIS | — | 006 (358.7) | -7.5 | 13.3 | — | — | — | — | RNAV1 |

INUBO TRANSITION

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | ROVER | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | BRUCE | — | 028 (020.7) | -7.5 | 13.6 | — | +FL150 | — | — | RNAV1 |
| 003 | TF | LEWIS | — | 086 (078.6) | -7.5 | 9.6 | — | FL170 | — | — | RNAV1 |
| 004 | TF | SILVA | — | 086 (078.8) | -7.5 | 7.3 | — | FL170 | — | — | RNAV1 |
| 005 | TF | INUBO | — | 149 (141.9) | -7.5 | 40.2 | — | +FL250 | — | — | RNAV1 |

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

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

VAR8°W(2020)

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RUTAS TWO DEPARTURE

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

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

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

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

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

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

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

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R11 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 207 (199.5) | -7.6 | 14.5 | — | — | — | — | RNAV1 |
| 004 | TF | UTIBO | — | 165 (157.0) | -7.6 | 16.8 | — | 6000 | — | — | RNAV1 |
| 005 | TF | RUTAS | — | 116 (108.4) | -7.6 | 40.6 | — | — | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.6 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L21 | — | — | -7.6 | — | — | — | — | — | RNAV1 |
| 003 | TF | VAMOS | — | 208 (200.7) | -7.6 | 15.4 | — | — | — | — | RNAV1 |
| 004 | TF | UTIBO | — | 165 (157.0) | -7.6 | 16.8 | — | 6000 | — | — | RNAV1 |
| 005 | TF | RUTAS | — | 116 (108.4) | -7.6 | 40.6 | — | — | — | — | RNAV1 |

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

| RNAV SID | | | | | | | | | | | |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| RWY34L/RWY34R | | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
| 001 | VA | – | – | 338 (330.0) | -7.6 | – | – | +700 | – | – | RNAV1 |
| 002 | DF | TT502 | – | – | -7.6 | – | R | – | – | – | RNAV1 |
| 003 | TF | LOCUP | – | 199 (190.9) | -7.6 | 5.2 | – | +5000 | – | – | RNAV1 |
| 004 | TF | VAMOS | – | 217 (209.5) | -7.6 | 17.3 | – | – | – | – | RNAV1 |
| 005 | TF | UTIBO | – | 165 (157.0) | -7.6 | 16.8 | – | 6000 | – | – | RNAV1 |
| 006 | TF | RUTAS | – | 116 (108.4) | -7.6 | 40.6 | – | – | – | – | RNAV1 |

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 043 (034.9) | -7.6 | – | – | +700 | – | – | RNAV1 |
| 002 | DF | TT502 | – | – | -7.6 | – | R | – | – | – | RNAV1 |
| 003 | TF | LOCUP | – | 199 (190.9) | -7.6 | 5.2 | – | +5000 | – | – | RNAV1 |
| 004 | TF | VAMOS | – | 217 (209.5) | -7.6 | 17.3 | – | – | – | – | RNAV1 |
| 005 | TF | UTIBO | – | 165 (157.0) | -7.6 | 16.8 | – | 6000 | – | – | RNAV1 |
| 006 | TF | RUTAS | – | 116 (108.4) | -7.6 | 40.6 | – | – | – | – | RNAV1 |

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | – | – | 050 (042.4) | -7.6 | – | – | +500 | – | – | RNAV1 |
| 002 | DF | TT501 | Y | – | -7.6 | – | – | – | – | – | RNAV1 |
| 003 | DF | TT502 | – | – | -7.6 | – | R | – | – | – | RNAV1 |
| 004 | TF | LOCUP | – | 199 (190.9) | -7.6 | 5.2 | – | +5000 | – | – | RNAV1 |
| 005 | TF | VAMOS | – | 217 (209.5) | -7.6 | 17.3 | – | – | – | – | RNAV1 |
| 006 | TF | UTIBO | – | 165 (157.0) | -7.6 | 16.8 | – | 6000 | – | – | RNAV1 |
| 007 | TF | RUTAS | – | 116 (108.4) | -7.6 | 40.6 | – | – | – | – | RNAV1 |

Waypoint Coordinates

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

STANDARD DEPARTURE CHART-INSTRUMENT

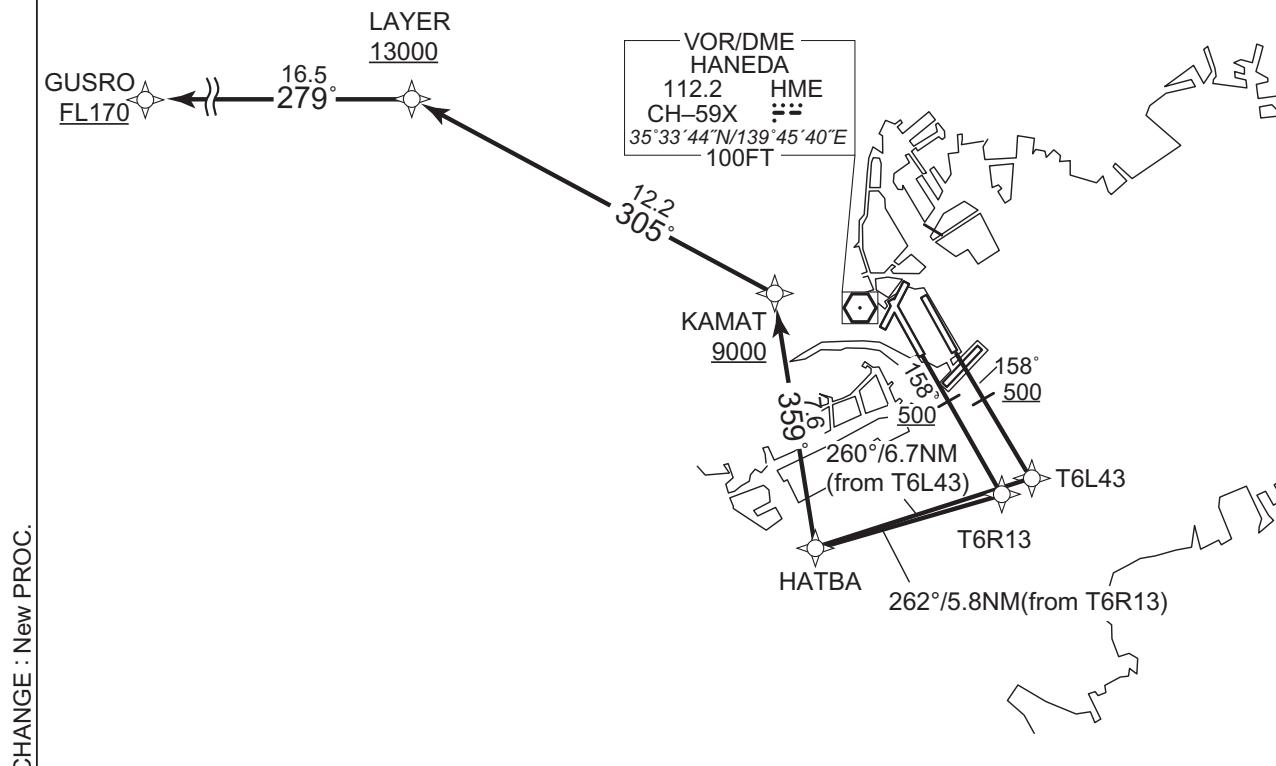
RJTT/TOKYO INTL

RNAV SID

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

VAR8°W

GUSRO ONE DEPARTURE RWY16R/16L



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

VAR8°W

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



STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE

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

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

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

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

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

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

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

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

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

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

GUSRO ONE DEPARTURE

RWY16R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6R13 | — | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 262 (253.8) | -7.8 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.8 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.8 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | GUSRO | — | 279 (271.2) | -7.8 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY16L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 158 (150.0) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | T6L43 | — | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | TF | HATBA | — | 260 (251.9) | -7.8 | 6.7 | — | — | — | — | RNAV1 |
| 004 | TF | KAMAT | — | 359 (351.1) | -7.8 | 7.6 | — | +9000 | — | — | RNAV1 |
| 005 | TF | LAYER | — | 305 (297.1) | -7.8 | 12.2 | — | +13000 | — | — | RNAV1 |
| 006 | TF | GUSRO | — | 279 (271.2) | -7.8 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY34L/RWY34R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 338 (330.0) | -7.8 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.8 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.8 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TT503 | — | 289 (280.8) | -7.8 | 6.2 | — | — | — | — | RNAV1 |
| 005 | TF | KAMAT | — | 322 (314.2) | -7.8 | 7.8 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 305 (297.1) | -7.8 | 12.2 | — | +13000 | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.2) | -7.8 | 16.5 | — | +FL170 | — | — | RNAV1 |

CHANGE : New PROC.

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

RWY04

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 043 (034.9) | -7.8 | — | — | +700 | — | — | RNAV1 |
| 002 | DF | TT502 | — | — | -7.8 | — | R | — | — | — | RNAV1 |
| 003 | TF | LOCUP | — | 199 (190.9) | -7.8 | 5.2 | — | +5000 | — | — | RNAV1 |
| 004 | TF | TT503 | — | 289 (280.8) | -7.8 | 6.2 | — | — | — | — | RNAV1 |
| 005 | TF | KAMAT | — | 322 (314.2) | -7.8 | 7.8 | — | +9000 | — | — | RNAV1 |
| 006 | TF | LAYER | — | 305 (297.1) | -7.8 | 12.2 | — | +13000 | — | — | RNAV1 |
| 007 | TF | GUSRO | — | 279 (271.2) | -7.8 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY05

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 050 (042.4) | -7.8 | — | — | +500 | — | — | RNAV1 |
| 002 | DF | TT501 | Y | — | -7.8 | — | — | — | — | — | RNAV1 |
| 003 | DF | TT502 | — | — | -7.8 | — | R | — | — | — | RNAV1 |
| 004 | TF | LOCUP | — | 199 (190.9) | -7.8 | 5.2 | — | +5000 | — | — | RNAV1 |
| 005 | TF | TT503 | — | 289 (280.8) | -7.8 | 6.2 | — | — | — | — | RNAV1 |
| 006 | TF | KAMAT | — | 322 (314.2) | -7.8 | 7.8 | — | +9000 | — | — | RNAV1 |
| 007 | TF | LAYER | — | 305 (297.1) | -7.8 | 12.2 | — | +13000 | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 279 (271.2) | -7.8 | 16.5 | — | +FL170 | — | — | RNAV1 |

RWY22

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 223 (214.9) | -7.8 | — | — | +600 | — | — | RNAV1 |
| 002 | DF | HOBBS | — | — | -7.8 | — | L | — | — | — | RNAV1 |
| 003 | TF | BASSA | — | 188 (179.9) | -7.8 | 5.8 | — | — | — | — | RNAV1 |
| 004 | TF | UMUKI | — | 172 (163.9) | -7.8 | 9.2 | — | — | — | — | RNAV1 |
| 005 | TF | PIPER | — | 235 (227.4) | -7.8 | 3.5 | — | +9000 | — | — | RNAV1 |
| 006 | TF | SATOL | — | 235 (227.4) | -7.8 | 5.5 | — | — | — | — | RNAV1 |
| 007 | TF | CURVA | — | 300 (292.2) | -7.8 | 8.2 | — | +FL150 | — | — | RNAV1 |
| 008 | TF | GUSRO | — | 336 (328.3) | -7.8 | 35.8 | — | +FL170 | — | — | RNAV1 |

STANDARD DEPARTURE CHART-INSTRUMENT

RJTT/TOKYO INTL

RNAV SID

Waypoint Coordinates

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

CHANGE : New PROC.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

STAR

SINGO ARRIVAL

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

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

DOYLE ARRIVAL

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

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

ADDUM ARRIVAL

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

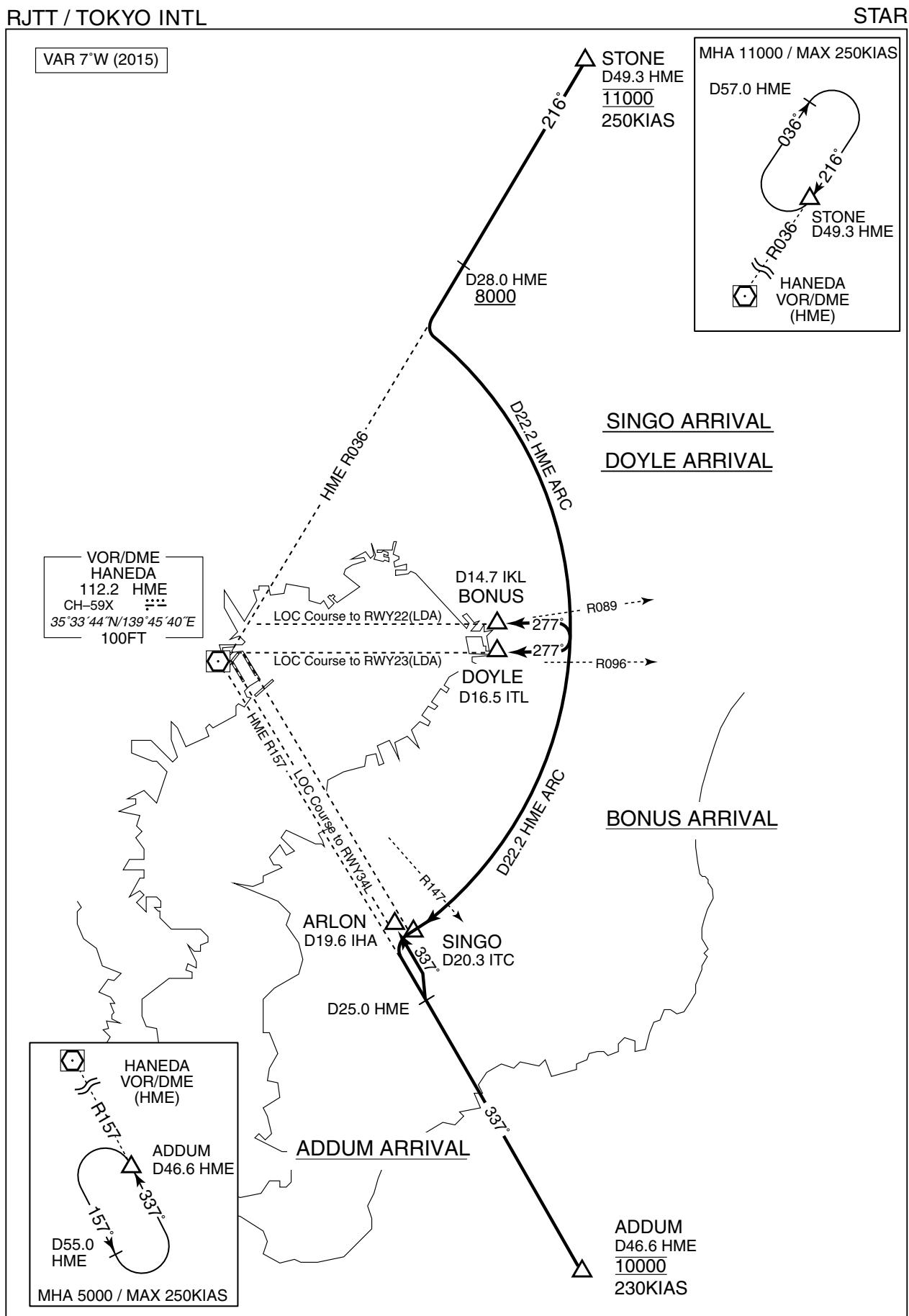
Cross ADDUM at 10000FT.

BONUS ARRIVAL

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

Cross ADDUM at 10000FT.

STANDARD ARRIVAL CHART-INSTRUMENT



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

RNAV 1

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

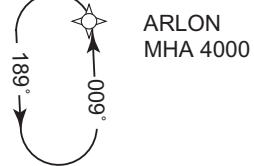
2) RADAR service required.

VAR 8° W(2019)

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

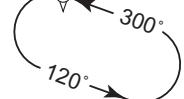


MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



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

WEDGE MHA 4000



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

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

XAC

ANZAC 13000 230KIAS

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

OSHIMA(XAC) MHA 5000

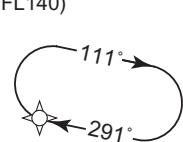
098° → 278°

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

HME

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

CREAM
MHA 4000



EPSON
7000 210KIAS

14.1°
21.1°

6.9°

3.1°

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STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1A ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | ANZAC | — | 068 (060.8) | -7.5 | 15.9 | — | 13000 | 230 | — | RNAV1 |
| 003 | TF | TT450 | — | 069 (061.0) | -7.5 | 5.0 | — | — | — | — | RNAV1 |
| 004 | TF | TT451 | — | 114 (106.9) | -7.5 | 9.0 | — | — | — | — | RNAV1 |
| 005 | TF | TT452 | — | 090 (082.2) | -7.5 | 7.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT453 | — | 068 (060.7) | -7.5 | 7.0 | — | — | — | — | RNAV1 |
| 007 | TF | WANDA | — | 044 (036.0) | -7.5 | 9.0 | — | 13000 | 230 | — | RNAV1 |
| 008 | TF | WEDGE | — | 300 (292.4) | -7.5 | 18.7 | — | 8000 | — | — | RNAV1 |
| 009 | TF | ARLON | — | 009 (001.6) | -7.5 | 6.4 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 1K ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | ANZAC | — | 068 (060.8) | -7.5 | 15.9 | — | 13000 | 230 | — | RNAV1 |
| 003 | TF | TT450 | — | 069 (061.0) | -7.5 | 5.0 | — | — | — | — | RNAV1 |
| 004 | TF | TT451 | — | 114 (106.9) | -7.5 | 9.0 | — | — | — | — | RNAV1 |
| 005 | TF | TT452 | — | 090 (082.2) | -7.5 | 7.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT453 | — | 068 (060.7) | -7.5 | 7.0 | — | — | — | — | RNAV1 |
| 007 | TF | WANDA | — | 044 (036.0) | -7.5 | 9.0 | — | 13000 | 230 | — | RNAV1 |
| 008 | TF | WEDGE | — | 300 (292.4) | -7.5 | 18.7 | — | 8000 | — | — | RNAV1 |
| 009 | TF | UMUKI | — | 300 (292.2) | -7.5 | 8.8 | — | +6000 | — | — | RNAV1 |
| 010 | TF | KAIHO | — | 353 (345.5) | -7.5 | 6.9 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ACCORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2C ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLONE | — | 095 (087.8) | -7.5 | 36.3 | — | — | — | — | RNAV1 |
| 003 | TF | TT460 | — | 068 (060.7) | -7.5 | 10.1 | — | — | — | — | RNAV1 |
| 004 | TF | TT461 | — | 044 (036.1) | -7.5 | 14.4 | — | — | — | — | RNAV1 |
| 005 | TF | CIVIC | — | 345 (337.7) | -7.5 | 8.8 | — | 7000 | 210 | — | RNAV1 |
| 006 | TF | TT462 | — | 345 (337.7) | -7.5 | 6.4 | — | — | — | — | RNAV1 |
| 007 | TF | TT463 | — | 006 (358.0) | -7.5 | 6.9 | — | — | — | — | RNAV1 |
| 008 | TF | TT464 | — | 341 (333.5) | -7.5 | 5.4 | — | — | — | — | RNAV1 |
| 009 | TF | EPSON | — | 317 (309.0) | -7.5 | 6.9 | — | 7000 | 210 | — | RNAV1 |
| 010 | TF | CREAM | — | 211 (203.6) | -7.5 | 14.1 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

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

RNAV STAR RWY34R/34L

RNAV 1

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

VAR 8° W(2019)

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

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

KAIHO
MHA 4000
 173°

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

ARLON
MHA 4000
 600°

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

WEDGE
MHA 4000
 300°

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

AKSEL
MHA 5000
 039°

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°
UMUKI
6000
300°
8.8
6.4
009°
WEDGE
8000

AKSEL1A ARRIVAL

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

WALLY
12000
230KIAS

CIVIC
7000
210KIAS

WALLY
12000
230KIAS

CIVIC
7000
210KIAS

AKSEL1K ARRIVAL

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

TT454
090°
7.6
TT455
068°
14.8
085°
CLONE

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

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)

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1A ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | TT454 | - | 039 (031.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |
| 003 | TF | TT455 | - | 090 (082.2) | -7.5 | 7.6 | - | - | - | - | RNAV1 |
| 004 | TF | TT456 | - | 068 (060.7) | -7.5 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | WALLY | - | 044 (036.0) | -7.5 | 9.7 | - | 12000 | 230 | - | RNAV1 |
| 006 | TF | WEDGE | - | 300 (292.4) | -7.5 | 20.2 | - | 8000 | - | - | RNAV1 |
| 007 | TF | ARLON | - | 009 (001.6) | -7.5 | 6.4 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 1K ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | — | — | -7.5 | — | — | 12000 | 230 | — | RNAV1 |
| 002 | TF | TT454 | — | 039 (031.2) | -7.5 | 9.5 | — | — | — | — | RNAV1 |
| 003 | TF | TT455 | — | 090 (082.2) | -7.5 | 7.6 | — | — | — | — | RNAV1 |
| 004 | TF | TT456 | — | 068 (060.7) | -7.5 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | WALLY | — | 044 (036.0) | -7.5 | 9.7 | — | 12000 | 230 | — | RNAV1 |
| 006 | TF | WEDGE | — | 300 (292.4) | -7.5 | 20.2 | — | 8000 | — | — | RNAV1 |
| 007 | TF | UMUKI | — | 300 (292.2) | -7.5 | 8.8 | — | +6000 | — | — | RNAV1 |
| 008 | TF | KAIHO | — | 353 (345.5) | -7.5 | 6.9 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2C ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|--------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | CLONE | - | 085 (077.0) | -7.5 | 14.8 | - | - | - | - | RNAV1 |
| 003 | TF | TT460 | - | 068 (060.7) | -7.5 | 10.1 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.5 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 345 (337.7) | -7.5 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 345 (337.7) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.5 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.5 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.5 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.5 | 14.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : WALLY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

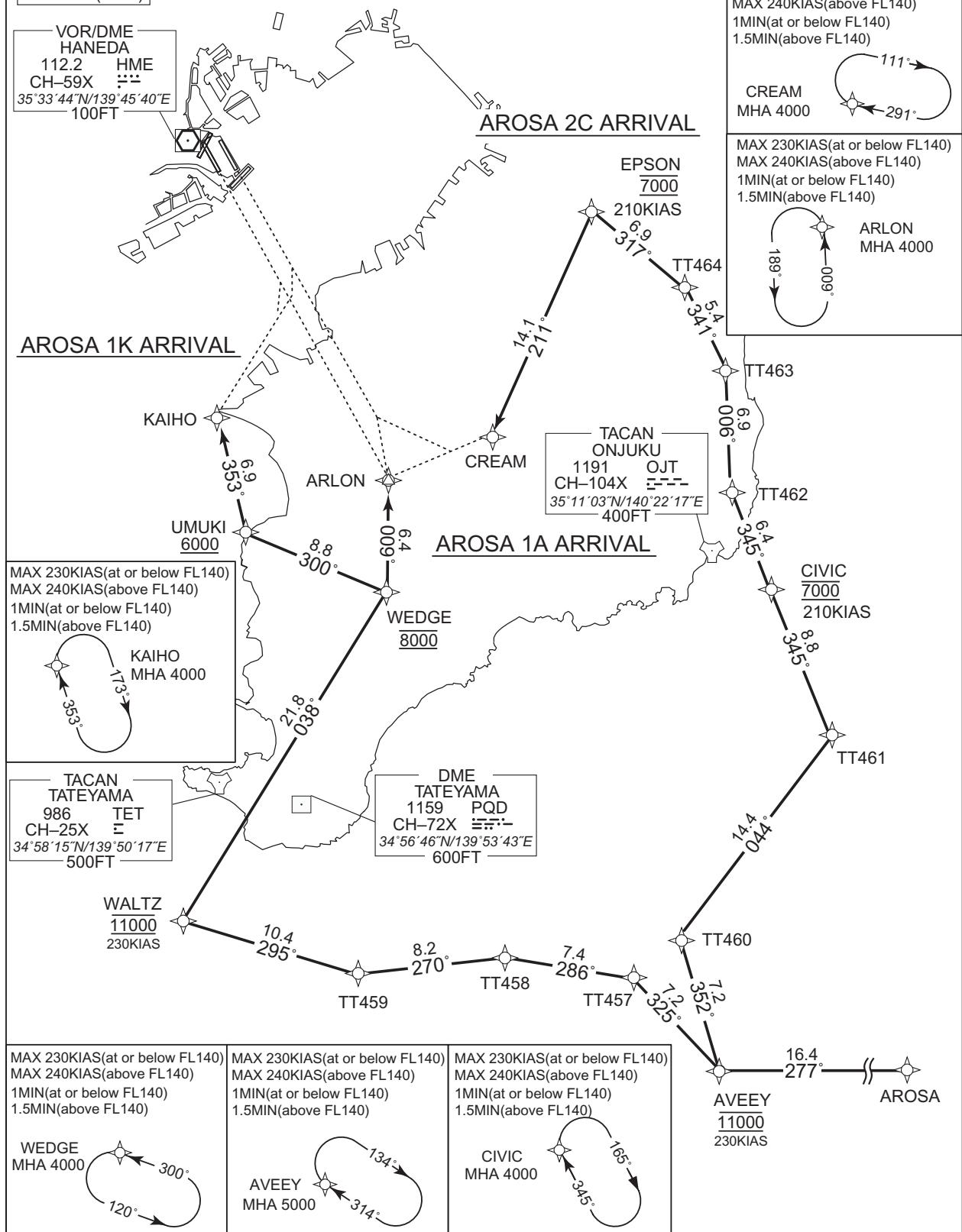
AROSA 1A ARRIVAL / AROSA 1K ARRIVAL
AROSA 2C ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1A ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT457 | - | 325 (317.5) | -7.5 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT458 | - | 286 (278.5) | -7.5 | 7.4 | - | - | - | - | RNAV1 |
| 005 | TF | TT459 | - | 270 (262.3) | -7.5 | 8.2 | - | - | - | - | RNAV1 |
| 006 | TF | WALTZ | - | 295 (287.0) | -7.5 | 10.4 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | WEDGE | - | 038 (030.6) | -7.5 | 21.8 | - | 8000 | - | - | RNAV1 |
| 008 | TF | ARLON | - | 009 (001.6) | -7.5 | 6.4 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 1K ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT457 | - | 325 (317.5) | -7.5 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT458 | - | 286 (278.5) | -7.5 | 7.4 | - | - | - | - | RNAV1 |
| 005 | TF | TT459 | - | 270 (262.3) | -7.5 | 8.2 | - | - | - | - | RNAV1 |
| 006 | TF | WALTZ | - | 295 (287.0) | -7.5 | 10.4 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | WEDGE | - | 038 (030.6) | -7.5 | 21.8 | - | 8000 | - | - | RNAV1 |
| 008 | TF | UMUKI | - | 300 (292.2) | -7.5 | 8.8 | - | +6000 | - | - | RNAV1 |
| 009 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2C ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT460 | - | 352 (344.5) | -7.5 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.5 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 345 (337.7) | -7.5 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 345 (337.7) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.5 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.5 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.5 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.5 | 14.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : AVEEY renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

RNAV 1

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

VAR 8° W

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

KAIHO
MHA 4000

NOT TO SCALE

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

ARLON
MHA 4000

NOT TO SCALE

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

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

COPSE

COACH
8000
210KIAS

TT465

TT466

TT467

TT468

TT469

TT470

TT471

TT472

TT473

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TT718

TT719

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2A ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.5 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.5 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.5 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | ARLON | - | 308 (300.2) | -7.5 | 6.2 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 2K ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.5 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.5 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.5 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | UMUKI | - | 278 (270.2) | -7.5 | 13.7 | - | +6000 | - | - | RNAV1 |
| 013 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1C ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M('T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.5 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.5 | 13.0 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

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

RNAV 1

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

VAR 8° W

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

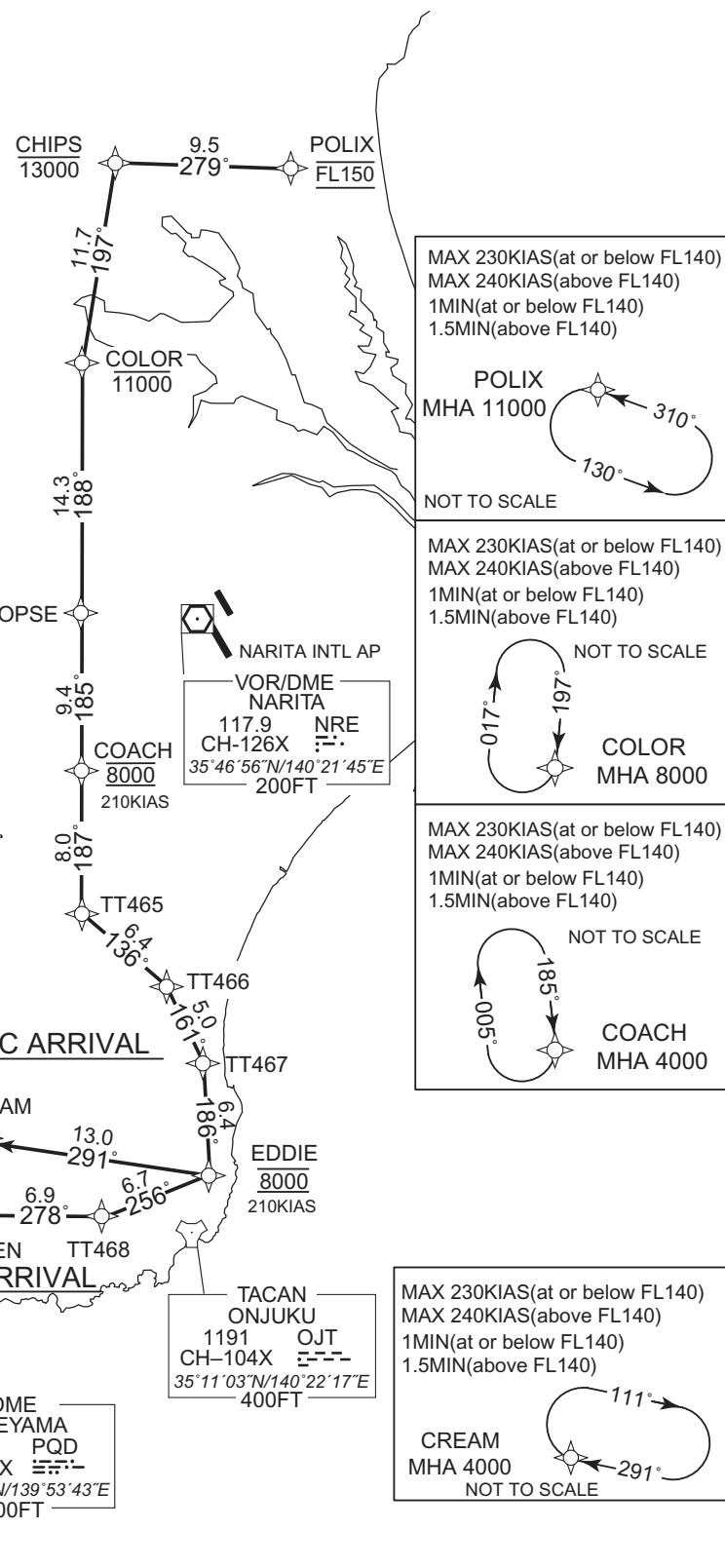
KAIHO
MHA 4000

NOT TO SCALE

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

ARLON
MHA 4000

NOT TO SCALE



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2A ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | — | — | -7.5 | — | — | FL150 | — | — | RNAV1 |
| 002 | TF | CHIPS | — | 279 (271.1) | -7.5 | 9.5 | — | -13000 | — | — | RNAV1 |
| 003 | TF | COLOR | — | 197 (189.1) | -7.5 | 11.7 | — | -11000 | — | — | RNAV1 |
| 004 | TF | COPSE | — | 188 (180.8) | -7.5 | 14.3 | — | — | — | — | RNAV1 |
| 005 | TF | COACH | — | 185 (177.8) | -7.5 | 9.4 | — | 8000 | 210 | — | RNAV1 |
| 006 | TF | TT465 | — | 187 (179.6) | -7.5 | 8.0 | — | — | — | — | RNAV1 |
| 007 | TF | TT466 | — | 136 (128.9) | -7.5 | 6.4 | — | — | — | — | RNAV1 |
| 008 | TF | TT467 | — | 161 (153.5) | -7.5 | 5.0 | — | — | — | — | RNAV1 |
| 009 | TF | EDDIE | — | 186 (178.0) | -7.5 | 6.4 | — | 8000 | 210 | — | RNAV1 |
| 010 | TF | TT468 | — | 256 (248.1) | -7.5 | 6.7 | — | — | — | — | RNAV1 |
| 011 | TF | ANDEN | — | 278 (270.2) | -7.5 | 6.9 | — | — | — | — | RNAV1 |
| 012 | TF | ARLON | — | 308 (300.2) | -7.5 | 6.2 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 11000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 2K ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | - | - | -7.5 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.5 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | TT468 | - | 256 (248.1) | -7.5 | 6.7 | - | - | - | - | RNAV1 |
| 011 | TF | ANDEN | - | 278 (270.2) | -7.5 | 6.9 | - | - | - | - | RNAV1 |
| 012 | TF | UMUKI | - | 278 (270.2) | -7.5 | 13.7 | - | +6000 | - | - | RNAV1 |
| 013 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | - | - | - | RNAV1 |

CHANGE : ANDEN established. TT469 abolished.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1C ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | - | - | -7.5 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.5 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.5 | 13.0 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : ANDEN established. TT469 abolished.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

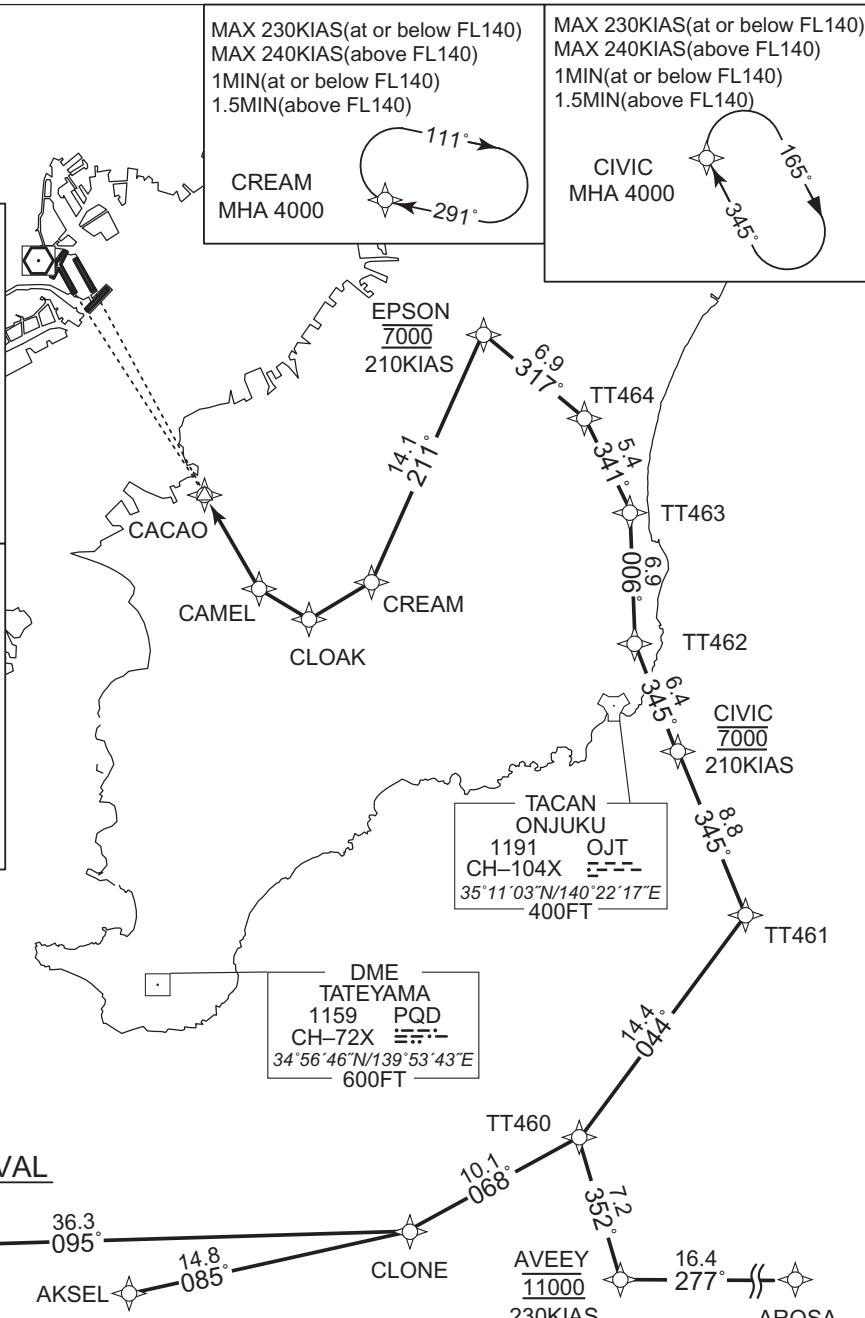
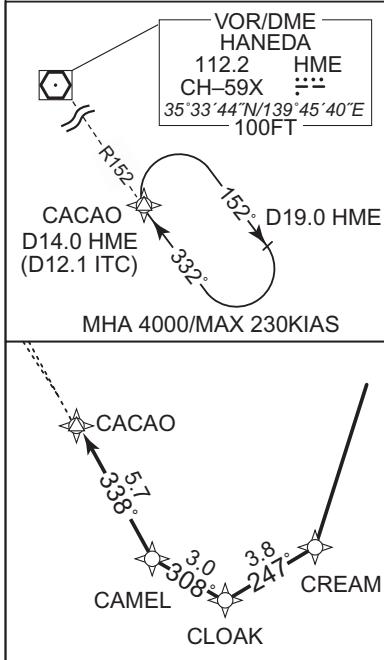
RNAV STAR RWY34R/34L

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

RNAV 1

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

VAR 8° W(2019)



CHANGE : AVEEY renamed

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

OSHIMA(XAC)
MHA 5000

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

AKSEL
MHA 5000

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

AVEEY
MHA 5000

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

OSHIMA 2H ARRIVAL

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

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLONE | — | 095 (087.8) | -7.5 | 36.3 | — | — | — | — | RNAV1 |
| 003 | TF | TT460 | — | 068 (060.7) | -7.5 | 10.1 | — | — | — | — | RNAV1 |
| 004 | TF | TT461 | — | 044 (036.1) | -7.5 | 14.4 | — | — | — | — | RNAV1 |
| 005 | TF | CIVIC | — | 345 (337.7) | -7.5 | 8.8 | — | 7000 | 210 | — | RNAV1 |
| 006 | TF | TT462 | — | 345 (337.7) | -7.5 | 6.4 | — | — | — | — | RNAV1 |
| 007 | TF | TT463 | — | 006 (358.0) | -7.5 | 6.9 | — | — | — | — | RNAV1 |
| 008 | TF | TT464 | — | 341 (333.5) | -7.5 | 5.4 | — | — | — | — | RNAV1 |
| 009 | TF | EPSON | — | 317 (309.0) | -7.5 | 6.9 | — | 7000 | 210 | — | RNAV1 |
| 010 | TF | CREAM | — | 211 (203.6) | -7.5 | 14.1 | — | — | — | — | RNAV1 |
| 011 | TF | CLOAK | — | 247 (240.0) | -7.5 | 3.8 | — | — | — | — | RNAV1 |
| 012 | TF | CAMEL | — | 308 (300.1) | -7.5 | 3.0 | — | — | — | — | RNAV1 |
| 013 | TF | CACAO | — | 338 (330.1) | -7.5 | 5.7 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AKSEL 2H ARRIVAL

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

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | CLONE | — | 085 (077.0) | -7.5 | 14.8 | — | — | — | — | RNAV1 |
| 003 | TF | TT460 | — | 068 (060.7) | -7.5 | 10.1 | — | — | — | — | RNAV1 |
| 004 | TF | TT461 | — | 044 (036.1) | -7.5 | 14.4 | — | — | — | — | RNAV1 |
| 005 | TF | CIVIC | — | 345 (337.7) | -7.5 | 8.8 | — | 7000 | 210 | — | RNAV1 |
| 006 | TF | TT462 | — | 345 (337.7) | -7.5 | 6.4 | — | — | — | — | RNAV1 |
| 007 | TF | TT463 | — | 006 (358.0) | -7.5 | 6.9 | — | — | — | — | RNAV1 |
| 008 | TF | TT464 | — | 341 (333.5) | -7.5 | 5.4 | — | — | — | — | RNAV1 |
| 009 | TF | EPSON | — | 317 (309.0) | -7.5 | 6.9 | — | 7000 | 210 | — | RNAV1 |
| 010 | TF | CREAM | — | 211 (203.6) | -7.5 | 14.1 | — | — | — | — | RNAV1 |
| 011 | TF | CLOAK | — | 247 (240.0) | -7.5 | 3.8 | — | — | — | — | RNAV1 |
| 012 | TF | CAMEL | — | 308 (300.1) | -7.5 | 3.0 | — | — | — | — | RNAV1 |
| 013 | TF | CACAO | — | 338 (330.1) | -7.5 | 5.7 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : Note added

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

AROSA 2H ARRIVAL

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

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | TT460 | - | 352 (344.5) | -7.5 | 7.2 | - | - | - | - | RNAV1 |
| 004 | TF | TT461 | - | 044 (036.1) | -7.5 | 14.4 | - | - | - | - | RNAV1 |
| 005 | TF | CIVIC | - | 345 (337.7) | -7.5 | 8.8 | - | 7000 | 210 | - | RNAV1 |
| 006 | TF | TT462 | - | 345 (337.7) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 007 | TF | TT463 | - | 006 (358.0) | -7.5 | 6.9 | - | - | - | - | RNAV1 |
| 008 | TF | TT464 | - | 341 (333.5) | -7.5 | 5.4 | - | - | - | - | RNAV1 |
| 009 | TF | EPSON | - | 317 (309.0) | -7.5 | 6.9 | - | 7000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 211 (203.6) | -7.5 | 14.1 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 247 (240.0) | -7.5 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.5 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.5 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : Note added

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

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

CHANGE : AVEEY renamed

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STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

GODIN 1H ARRIVAL
POLIX 1H ARRIVAL

RNAV STAR RWY34R/34L

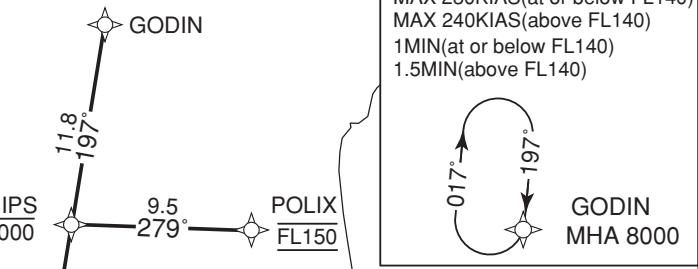
RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

GODIN 1H ARRIVAL



POLIX 1H ARRIVAL

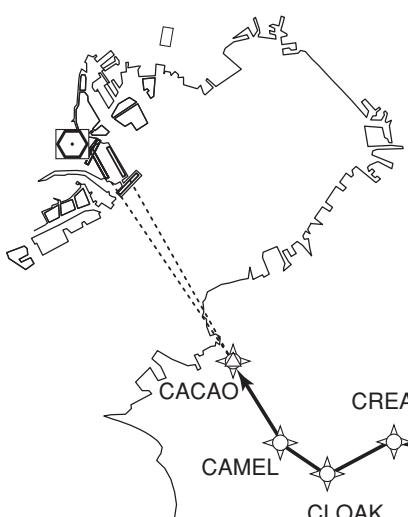
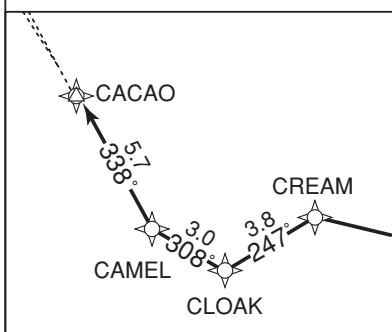
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

POLIX MHA 11000
310°
730°

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)

COACH MHA 4000
900°
580°



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

CHANGE : New PROC

CACAO
D14.0 HME
(D12.1 ITC)
332°
152°
D19.0 HME
MHA 4000/MAX 230KIAS

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

CREAM
MHA 4000

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

GODIN 1H ARRIVAL

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

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 197 (189.1) | -7.5 | 11.8 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.5 | 13.0 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 247 (240.0) | -7.5 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.5 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.5 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

POLIX 1H ARRIVAL

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

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | - | - | -7.5 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | CHIPS | - | 279 (271.1) | -7.5 | 9.5 | - | -13000 | - | - | RNAV1 |
| 003 | TF | COLOR | - | 197 (189.1) | -7.5 | 11.7 | - | -11000 | - | - | RNAV1 |
| 004 | TF | COPSE | - | 188 (180.8) | -7.5 | 14.3 | - | - | - | - | RNAV1 |
| 005 | TF | COACH | - | 185 (177.8) | -7.5 | 9.4 | - | 8000 | 210 | - | RNAV1 |
| 006 | TF | TT465 | - | 187 (179.6) | -7.5 | 8.0 | - | - | - | - | RNAV1 |
| 007 | TF | TT466 | - | 136 (128.9) | -7.5 | 6.4 | - | - | - | - | RNAV1 |
| 008 | TF | TT467 | - | 161 (153.5) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 009 | TF | EDDIE | - | 186 (178.0) | -7.5 | 6.4 | - | 8000 | 210 | - | RNAV1 |
| 010 | TF | CREAM | - | 291 (283.1) | -7.5 | 13.0 | - | - | - | - | RNAV1 |
| 011 | TF | CLOAK | - | 247 (240.0) | -7.5 | 3.8 | - | - | - | - | RNAV1 |
| 012 | TF | CAMEL | - | 308 (300.1) | -7.5 | 3.0 | - | - | - | - | RNAV1 |
| 013 | TF | CACAO | - | 338 (330.1) | -7.5 | 5.7 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : Note added.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY34R/34L

Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

OSHIMA 1N ARRIVAL
OSHIMA 2N ARRIVAL

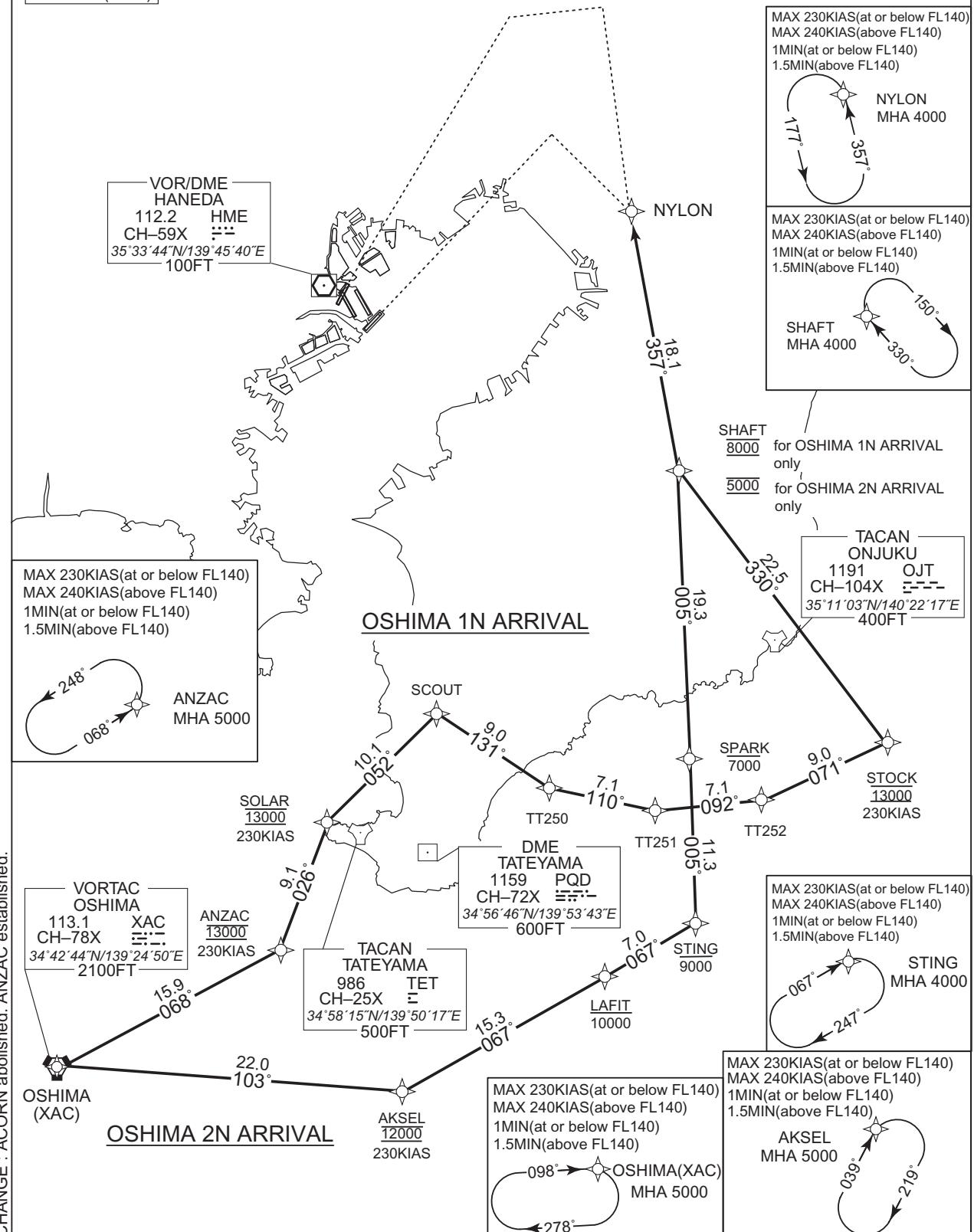
RNAV STAR RWY22/23

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | ANZAC | — | 068 (060.8) | -7.5 | 15.9 | — | 13000 | 230 | — | RNAV1 |
| 003 | TF | SOLAR | — | 026 (018.4) | -7.5 | 9.1 | — | 13000 | 230 | — | RNAV1 |
| 004 | TF | SCOUT | — | 052 (044.3) | -7.5 | 10.1 | — | — | — | — | RNAV1 |
| 005 | TF | TT250 | — | 131 (123.1) | -7.5 | 9.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT251 | — | 110 (102.5) | -7.5 | 7.1 | — | — | — | — | RNAV1 |
| 007 | TF | TT252 | — | 092 (084.3) | -7.5 | 7.1 | — | — | — | — | RNAV1 |
| 008 | TF | STOCK | — | 071 (063.6) | -7.5 | 9.0 | — | 13000 | 230 | — | RNAV1 |
| 009 | TF | SHAFT | — | 330 (322.4) | -7.5 | 22.5 | — | 8000 | — | — | RNAV1 |
| 010 | TF | NYLON | — | 357 (350.0) | -7.5 | 18.1 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ACCORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2N ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AKSEL | - | 103 (095.3) | -7.5 | 22.0 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | LAFIT | - | 067 (059.5) | -7.5 | 15.3 | - | -10000 | - | - | RNAV1 |
| 004 | TF | STING | - | 067 (059.6) | -7.5 | 7.0 | - | -9000 | - | - | RNAV1 |
| 005 | TF | SPARK | - | 005 (357.4) | -7.5 | 11.3 | - | -7000 | - | - | RNAV1 |
| 006 | TF | SHAFT | - | 005 (357.4) | -7.5 | 19.3 | - | 5000 | - | - | RNAV1 |
| 007 | TF | NYLON | - | 357 (350.0) | -7.5 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ACCORN abolished. ANZAC established.

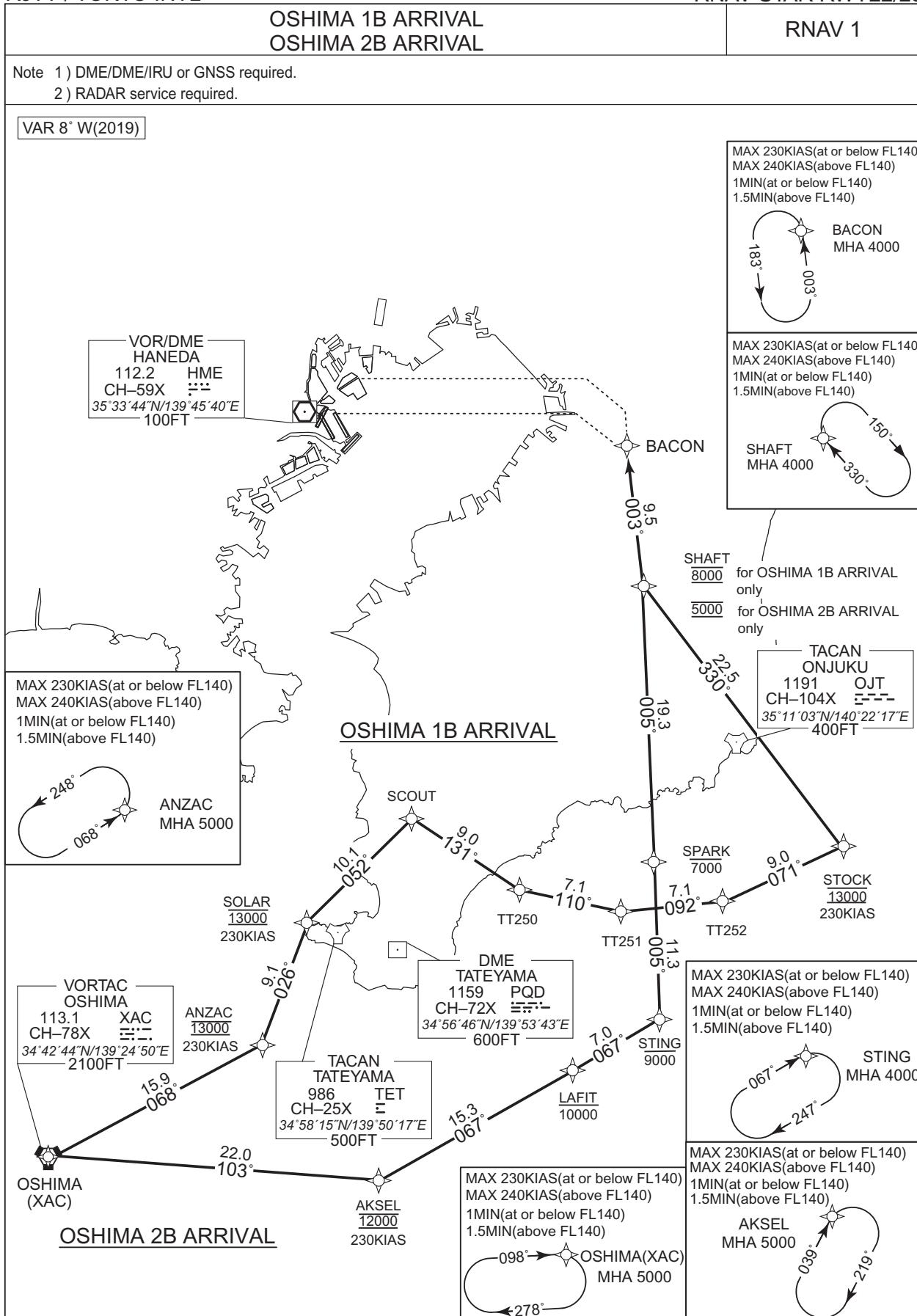
Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23



CHANGE : ACCORN abolished ANZAC established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 1B ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 068 (060.8) | -7.5 | 15.9 | - | 13000 | 230 | - | RNAV1 |
| 003 | TF | SOLAR | - | 026 (018.4) | -7.5 | 9.1 | - | 13000 | 230 | - | RNAV1 |
| 004 | TF | SCOUT | - | 052 (044.3) | -7.5 | 10.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT250 | - | 131 (123.1) | -7.5 | 9.0 | - | - | - | - | RNAV1 |
| 006 | TF | TT251 | - | 110 (102.5) | -7.5 | 7.1 | - | - | - | - | RNAV1 |
| 007 | TF | TT252 | - | 092 (084.3) | -7.5 | 7.1 | - | - | - | - | RNAV1 |
| 008 | TF | STOCK | - | 071 (063.6) | -7.5 | 9.0 | - | 13000 | 230 | - | RNAV1 |
| 009 | TF | SHAFT | - | 330 (322.4) | -7.5 | 22.5 | - | 8000 | - | - | RNAV1 |
| 010 | TF | BACON | - | 003 (355.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ACORN abolished. ANZAC established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

OSHIMA 2B ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AKSEL | - | 103 (095.3) | -7.5 | 22.0 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | LAFIT | - | 067 (059.5) | -7.5 | 15.3 | - | -10000 | - | - | RNAV1 |
| 004 | TF | STING | - | 067 (059.6) | -7.5 | 7.0 | - | -9000 | - | - | RNAV1 |
| 005 | TF | SPARK | - | 005 (357.4) | -7.5 | 11.3 | - | -7000 | - | - | RNAV1 |
| 006 | TF | SHAFT | - | 005 (357.4) | -7.5 | 19.3 | - | 5000 | - | - | RNAV1 |
| 007 | TF | BACON | - | 003 (355.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL
AKSEL 2N ARRIVAL

RNAV 1

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

VAR 8° W(2019)

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

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

7.6

092°

TT255

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1N ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | SALLY | - | 023 (015.0) | -7.5 | 13.4 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | TT253 | - | 048 (040.5) | -7.5 | 8.5 | - | - | - | - | RNAV1 |
| 004 | TF | TT254 | - | 109 (102.0) | -7.5 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | TT255 | - | 092 (084.4) | -7.5 | 7.6 | - | - | - | - | RNAV1 |
| 006 | TF | STOWE | - | 071 (063.6) | -7.5 | 9.6 | - | 12000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 330 (322.4) | -7.5 | 24.0 | - | 8000 | - | - | RNAV1 |
| 008 | TF | NYLON | - | 357 (350.0) | -7.5 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2N ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | LAFIT | - | 067 (059.5) | -7.5 | 15.3 | - | -10000 | - | - | RNAV1 |
| 003 | TF | STING | - | 067 (059.6) | -7.5 | 7.0 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.5 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.5 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | NYLON | - | 357 (350.0) | -7.5 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL
AKSEL 2B ARRIVAL

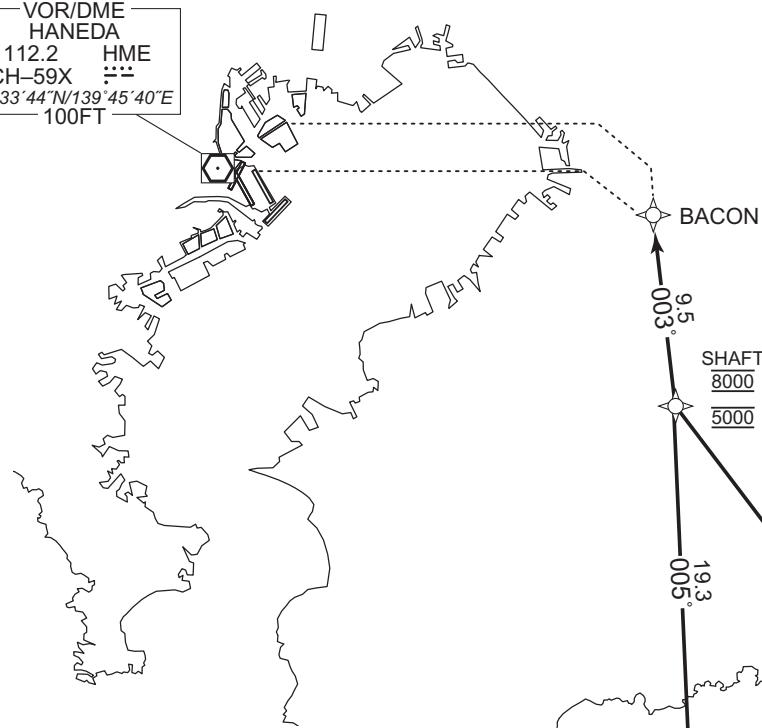
RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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



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

BACON
MHA 4000
183° ↘ 003°

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

SHAFT
MHA 4000
150° ↘ 330°

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

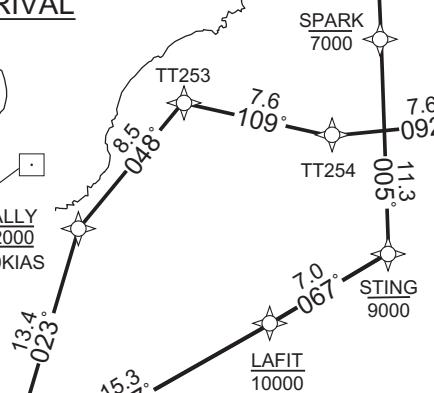
TACAN
ONJUKU
1191 OJT
CH-104X
35°11'03"N/140°22'17"E
400FT

AKSEL 1B ARRIVAL

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

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

SALLY
12000
230KIAS



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

AKSEL
MHA 5000
039° ↗ 219°

AKSEL
12000
230KIAS

AKSEL 2B ARRIVAL

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

STING
MHA 4000
067° ↗ 241°

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 1B ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | SALLY | - | 023 (015.0) | -7.5 | 13.4 | - | 12000 | 230 | - | RNAV1 |
| 003 | TF | TT253 | - | 048 (040.5) | -7.5 | 8.5 | - | - | - | - | RNAV1 |
| 004 | TF | TT254 | - | 109 (102.0) | -7.5 | 7.6 | - | - | - | - | RNAV1 |
| 005 | TF | TT255 | - | 092 (084.4) | -7.5 | 7.6 | - | - | - | - | RNAV1 |
| 006 | TF | STOWE | - | 071 (063.6) | -7.5 | 9.6 | - | 12000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 330 (322.4) | -7.5 | 24.0 | - | 8000 | - | - | RNAV1 |
| 008 | TF | BACON | - | 003 (355.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AKSEL 2B ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | 12000 | 230 | - | RNAV1 |
| 002 | TF | LAFIT | - | 067 (059.5) | -7.5 | 15.3 | - | -10000 | - | - | RNAV1 |
| 003 | TF | STING | - | 067 (059.6) | -7.5 | 7.0 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.5 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.5 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | BACON | - | 003 (355.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : STOWE renamed

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

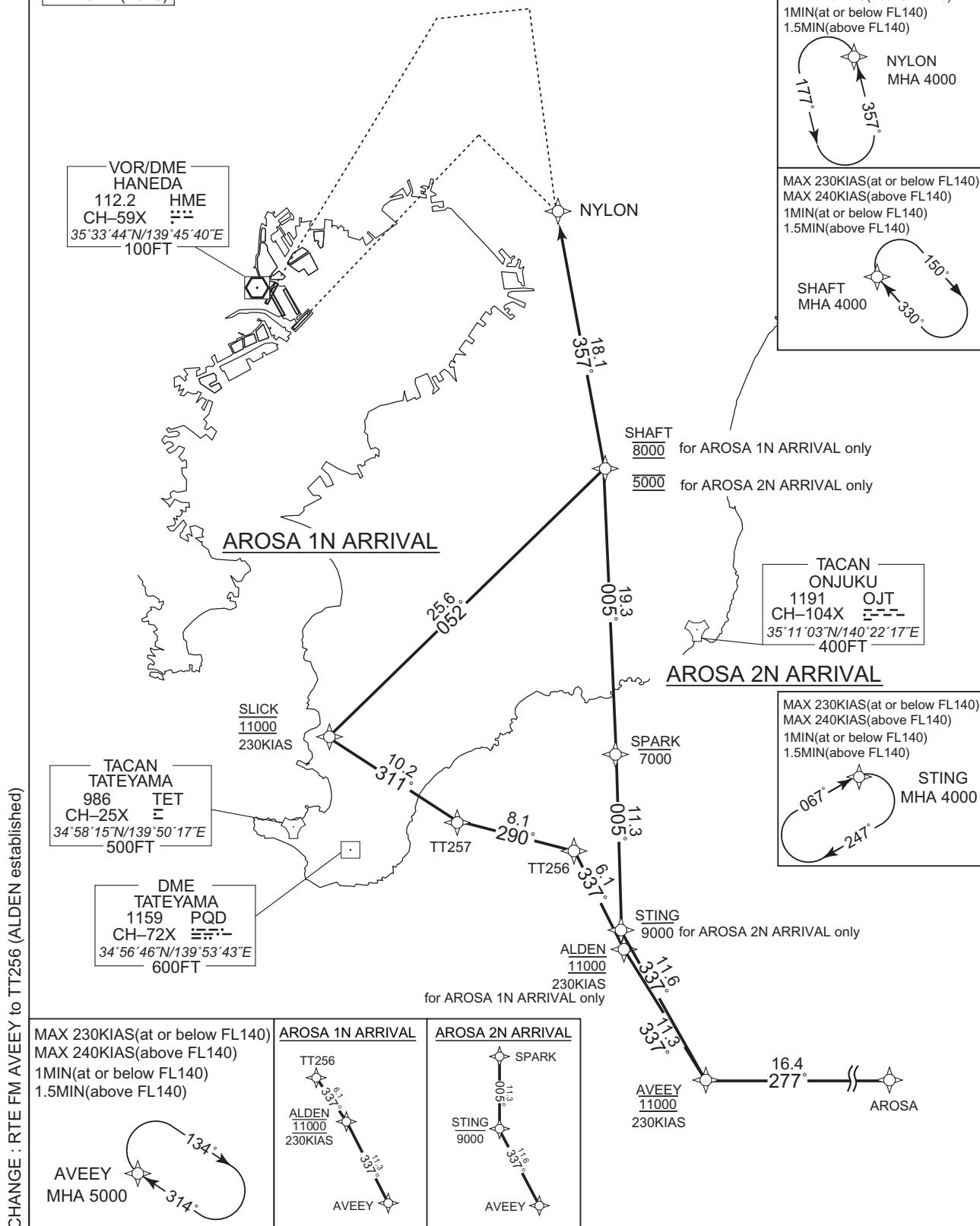
AROSA 1N ARRIVAL
AROSA 2N ARRIVAL

RNAV STAR RWY22/23

RNAV 1

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

VAR 8° W(2019)



CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1N ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 337 (330.0) | -7.5 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 337 (329.9) | -7.5 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.5 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SLICK | - | 311 (303.1) | -7.5 | 10.2 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 052 (044.3) | -7.5 | 25.6 | - | 8000 | - | - | RNAV1 |
| 008 | TF | NYLON | - | 357 (350.0) | -7.5 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2N ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | STING | - | 337 (330.0) | -7.5 | 11.6 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.5 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.5 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | NYLON | - | 357 (350.0) | -7.5 | 18.1 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

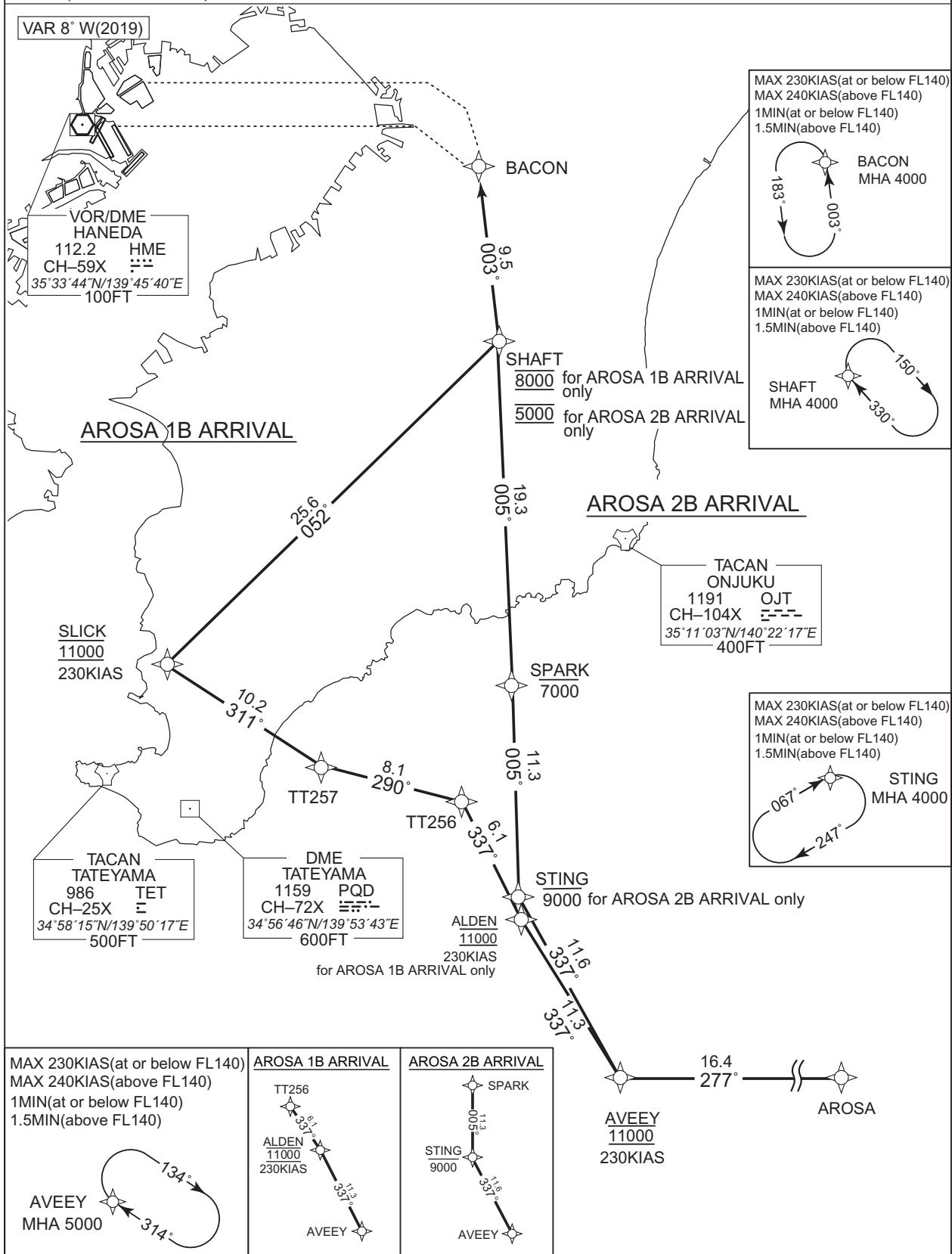
RNAV STAR RWY22/23

AROSA 1B ARRIVAL
AROSA 2B ARRIVAL

RNAV 1

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

2) RADAR service required.



CHANGE : RTE FM AVEEY to TT256 (ALDEN established)

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 1B ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 337 (330.0) | -7.5 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 337 (329.9) | -7.5 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.5 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SLICK | - | 311 (303.1) | -7.5 | 10.2 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 052 (044.3) | -7.5 | 25.6 | - | 8000 | - | - | RNAV1 |
| 008 | TF | BACON | - | 003 (355.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

AROSA 2B ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | STING | - | 337 (330.0) | -7.5 | 11.6 | - | -9000 | - | - | RNAV1 |
| 004 | TF | SPARK | - | 005 (357.4) | -7.5 | 11.3 | - | -7000 | - | - | RNAV1 |
| 005 | TF | SHAFT | - | 005 (357.4) | -7.5 | 19.3 | - | 5000 | - | - | RNAV1 |
| 006 | TF | BACON | - | 003 (355.2) | -7.5 | 9.5 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : ALDEN established

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

GODIN 1S ARRIVAL
GODIN 1D ARRIVAL

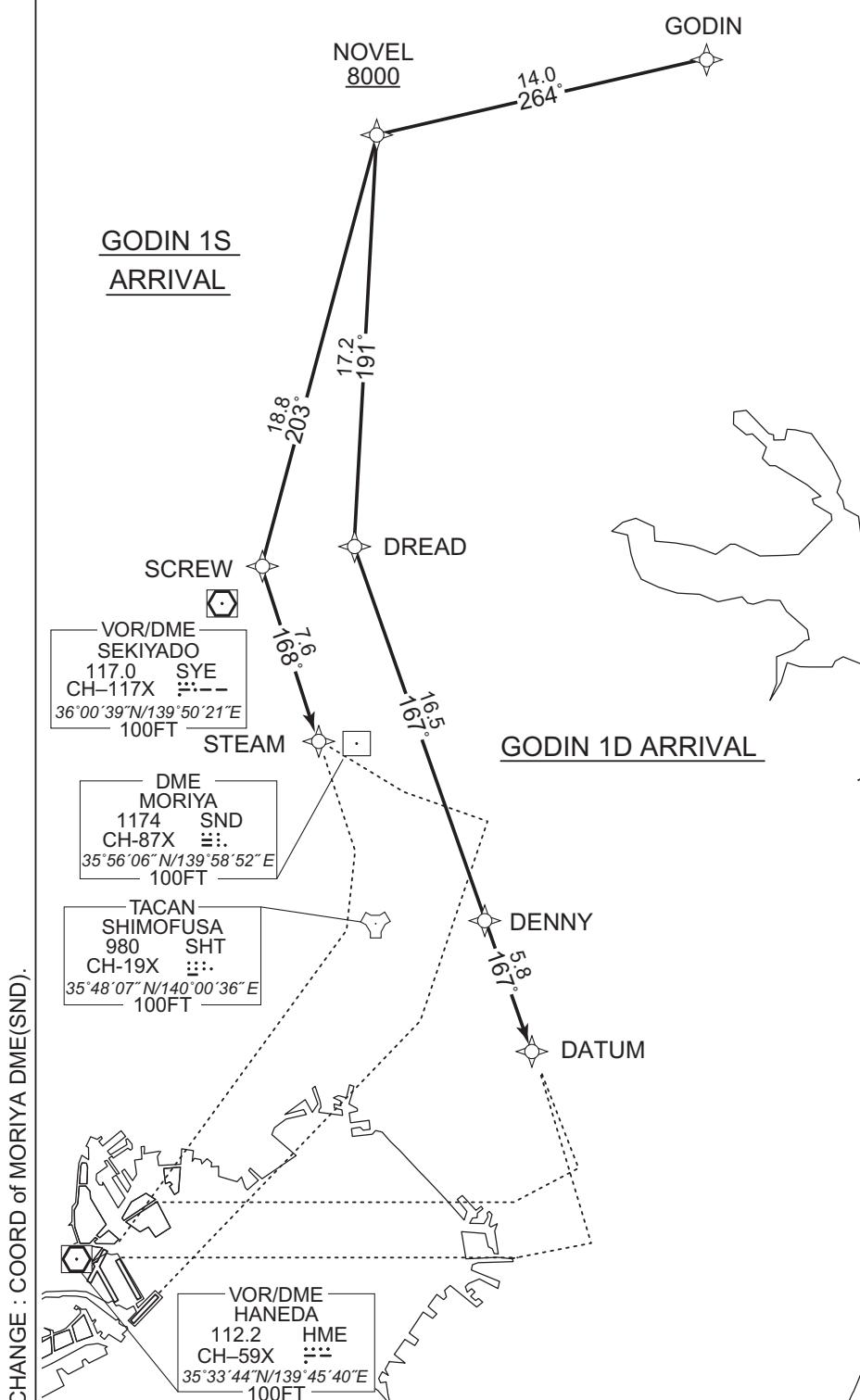
RNAV STAR RWY22/23

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



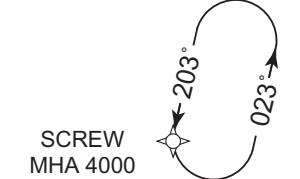
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



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



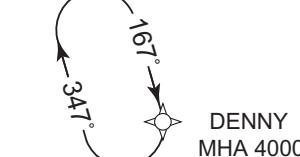
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)



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



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



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1S ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | NOVEL | - | 264 (256.4) | -7.5 | 14.0 | - | +8000 | - | - | RNAV1 |
| 003 | TF | SCREW | - | 203 (195.2) | -7.5 | 18.8 | - | - | - | - | RNAV1 |
| 004 | TF | STEAM | - | 168 (160.4) | -7.5 | 7.6 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SCREW | 203 (195.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

GODIN 1D ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | NOVEL | - | 264 (256.4) | -7.5 | 14.0 | - | +8000 | - | - | RNAV1 |
| 003 | TF | DREAD | - | 191 (183.1) | -7.5 | 17.2 | - | - | - | - | RNAV1 |
| 004 | TF | DENNY | - | 167 (159.9) | -7.5 | 16.5 | - | - | - | - | RNAV1 |
| 005 | TF | DATUM | | 167 (160.0) | -7.5 | 5.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DREAD | 191 (183.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DENNY | 167 (159.9) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

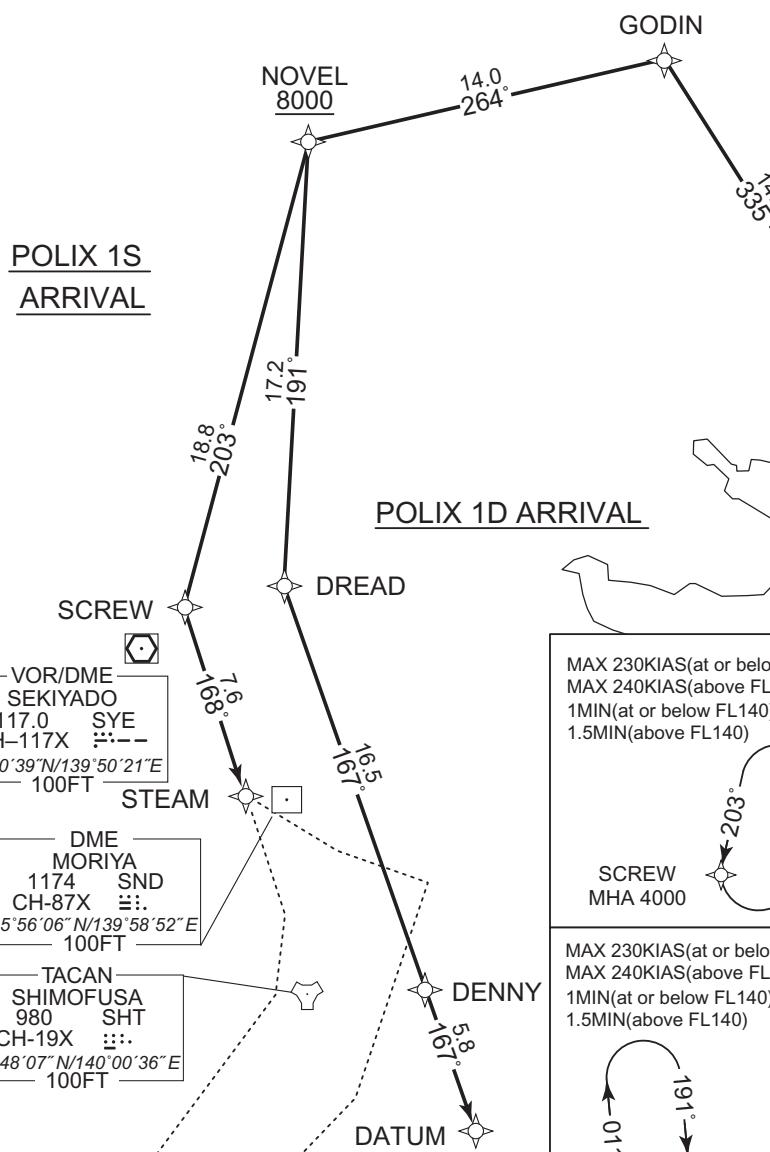
POLIX 1S ARRIVAL
POLIX 1D ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



| | |
|--|--|
| MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) | MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) |
| SCREW MHA 4000 | POLIX MHA 11000 |
| MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) | MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) |
| DREAD MHA 5000 | GODIN MHA 8000 |

| | |
|--|--|
| 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) |
| DENN MHA 4000 | NOVEL MHA 5000 |

CHANGE : COORD of MORIYA DME(SND).

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1S ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | - | - | -7.5 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | GODIN | - | 335 (327.2) | -7.5 | 14.1 | - | - | - | - | RNAV1 |
| 003 | TF | NOVEL | - | 264 (256.4) | -7.5 | 14.0 | - | +8000 | - | - | RNAV1 |
| 004 | TF | SCREW | - | 203 (195.2) | -7.5 | 18.8 | - | - | - | - | RNAV1 |
| 005 | TF | STEAM | - | 168 (160.4) | -7.5 | 7.6 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SCREW | 203 (195.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY22/23

POLIX 1D ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | - | - | -7.5 | - | - | FL150 | - | - | RNAV1 |
| 002 | TF | GODIN | - | 335 (327.2) | -7.5 | 14.1 | - | - | - | - | RNAV1 |
| 003 | TF | NOVEL | - | 264 (256.4) | -7.5 | 14.0 | - | +8000 | - | - | RNAV1 |
| 004 | TF | DREAD | - | 191 (183.1) | -7.5 | 17.2 | - | - | - | - | RNAV1 |
| 005 | TF | DENNY | - | 167 (159.9) | -7.5 | 16.5 | - | - | - | - | RNAV1 |
| 006 | TF | DATUM | - | 167 (160.0) | -7.5 | 5.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 11000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DREAD | 191 (183.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DENNY | 167 (159.9) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

CHANGE : Restriction on NOVEL

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL
OSHIMA R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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

NUMAN
MHA 4000

180°
360°

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

NEURO
MHA 4000

110°
290°

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

ANZAC
MHA 5000

248°
068°

OSHIMA L ARRIVAL
OSHIMA R ARRIVAL

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

SNARE
MHA 4000

717°
297°

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

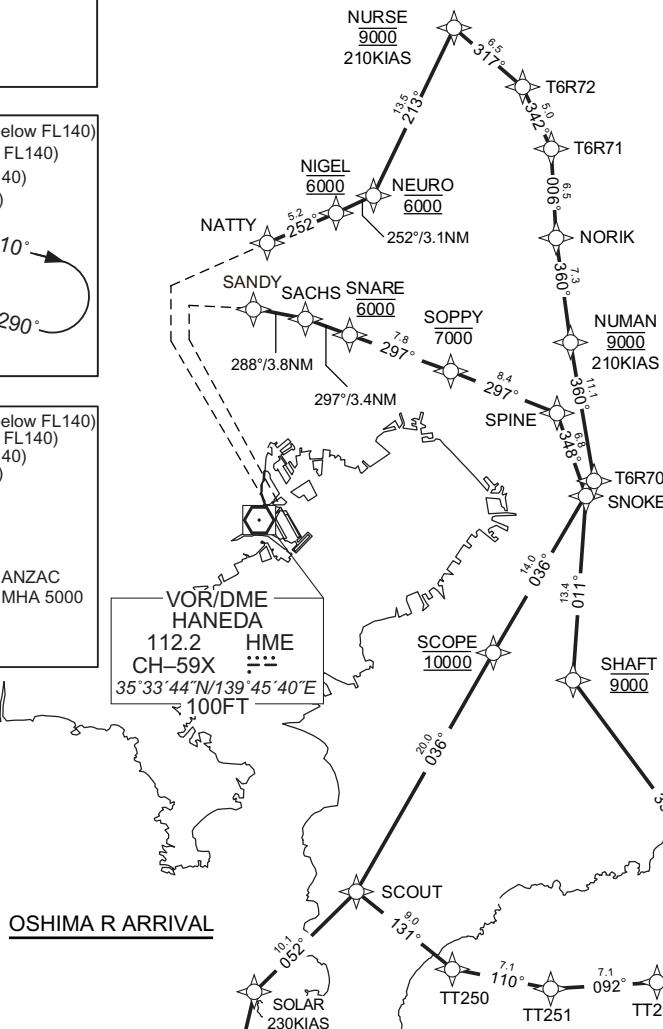
SPINE
MHA 4000

168°
348°

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

SHAFT
MHA 4000

150°
330°



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

OSHIMA(XAC)
MHA 5000

098°
278°

OSHIMA L ARRIVAL
SPINE
SNOKE
SHAFT 9000

OSHIMA R ARRIVAL
NUMAN
210KIAS

OSHIMA L ARRIVAL
NUMAN
210KIAS
13.4
011°
SHAFT 9000
SCOPE 10000

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA L ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 068 (060.8) | -7.5 | 15.9 | - | - | - | - | RNAV1 |
| 003 | TF | SOLAR | - | 026 (018.4) | -7.5 | 9.1 | - | 13000 | 230 | - | RNAV1 |
| 004 | TF | SCOUT | - | 052 (044.3) | -7.5 | 10.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT250 | - | 131 (123.1) | -7.5 | 9.0 | - | - | - | - | RNAV1 |
| 006 | TF | TT251 | - | 110 (102.5) | -7.5 | 7.1 | - | - | - | - | RNAV1 |
| 007 | TF | TT252 | - | 092 (084.3) | -7.5 | 7.1 | - | - | - | - | RNAV1 |
| 008 | TF | STOCK | - | 071 (063.6) | -7.5 | 9.0 | - | 13000 | 230 | - | RNAV1 |
| 009 | TF | SHAFT | - | 330 (322.4) | -7.5 | 22.5 | - | 9000 | | - | RNAV1 |
| 010 | TF | SNOKE | - | 011 (003.4) | -7.5 | 13.4 | - | - | - | - | RNAV1 |
| 011 | TF | SPINE | - | 348 (340.6) | -7.5 | 6.8 | - | - | - | - | RNAV1 |
| 012 | TF | SOPPY | - | 297 (289.2) | -7.5 | 8.4 | - | -7000 | - | - | RNAV1 |
| 013 | TF | SNARE | - | 297 (289.1) | -7.5 | 7.8 | - | 6000 | - | - | RNAV1 |
| 014 | TF | SACHS | - | 297 (289.0) | -7.5 | 3.4 | - | - | - | - | RNAV1 |
| 015 | TF | SANDY | - | 288 (280.0) | -7.5 | 3.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

OSHIMA R ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | ANZAC | - | 068 (060.8) | -7.5 | 15.9 | - | - | - | - | RNAV1 |
| 003 | TF | SOLAR | - | 026 (018.4) | -7.5 | 9.1 | - | - | 230 | - | RNAV1 |
| 004 | TF | SCOUT | - | 052 (044.3) | -7.5 | 10.1 | - | - | - | - | RNAV1 |
| 005 | TF | SCOPE | - | 036 (028.5) | -7.5 | 20.0 | - | 10000 | - | - | RNAV1 |
| 006 | TF | T6R70 | - | 036 (028.6) | -7.5 | 14.0 | - | - | - | - | RNAV1 |
| 007 | TF | NUMAN | - | 360 (352.5) | -7.5 | 11.1 | - | 9000 | 210 | - | RNAV1 |
| 008 | TF | NORIK | - | 360 (352.5) | -7.5 | 7.3 | - | - | - | - | RNAV1 |
| 009 | TF | T6R71 | - | 006 (358.9) | -7.5 | 6.5 | - | - | - | - | RNAV1 |
| 010 | TF | T6R72 | - | 342 (334.4) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 011 | TF | NURSE | - | 317 (309.8) | -7.5 | 6.5 | - | 9000 | 210 | - | RNAV1 |
| 012 | TF | NEURO | - | 213 (205.5) | -7.5 | 13.5 | - | 6000 | - | - | RNAV1 |
| 013 | TF | NIGEL | - | 252 (244.1) | -7.5 | 3.1 | - | 6000 | - | - | RNAV1 |
| 014 | TF | NATTY | - | 252 (244.1) | -7.5 | 5.2 | - | - | - | - | RNAV1 |

CHANGE : ACCORN abolished. ANZAC established.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 290 (282.9) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

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

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL
AKSEL R ARRIVAL

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)

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

NUMAN
MHA 4000

180°
360°

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

NEURO
MHA 4000

110°
290°

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

SNARE
MHA 4000

717°
297°

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

SPINE
MHA 4000

168°
348°

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

SHAFT
MHA 4000

150°
330°

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

AKSEL R ARRIVAL

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

AKSEL
MHA 5000

039°
219°

AKSEL L ARRIVAL

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

AKSEL R ARRIVAL

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

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL L ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | SALLY | — | 023 (015.0) | -7.5 | 13.4 | — | 12000 | 230 | — | RNAV1 |
| 003 | TF | TT253 | — | 048 (040.5) | -7.5 | 8.5 | — | — | — | — | RNAV1 |
| 004 | TF | TT254 | — | 109 (102.0) | -7.5 | 7.6 | — | — | — | — | RNAV1 |
| 005 | TF | TT255 | — | 092 (084.4) | -7.5 | 7.6 | — | — | — | — | RNAV1 |
| 006 | TF | STOWE | — | 071 (063.6) | -7.5 | 9.6 | — | 12000 | 230 | — | RNAV1 |
| 007 | TF | SHAFT | — | 330 (322.4) | -7.5 | 24.0 | — | 9000 | — | — | RNAV1 |
| 008 | TF | SNOKE | — | 011 (003.4) | -7.5 | 13.4 | — | — | — | — | RNAV1 |
| 009 | TF | SPINE | — | 348 (340.6) | -7.5 | 6.8 | — | — | — | — | RNAV1 |
| 010 | TF | SOPPY | — | 297 (289.2) | -7.5 | 8.4 | — | -7000 | — | — | RNAV1 |
| 011 | TF | SNARE | — | 297 (289.1) | -7.5 | 7.8 | — | 6000 | — | — | RNAV1 |
| 012 | TF | SACHS | — | 297 (289.0) | -7.5 | 3.4 | — | — | — | — | RNAV1 |
| 013 | TF | SANDY | — | 288 (280.0) | -7.5 | 3.8 | — | — | — | — | RNAV1 |

CHANGE : T6L60 abolished, SACHS established.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AKSEL R ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | — | — | -7.5 | — | — | — | — | — | RNAV1 |
| 002 | TF | SALLY | — | 023 (015.0) | -7.5 | 13.4 | — | — | 230 | — | RNAV1 |
| 003 | TF | SCOUT | — | 001 (353.7) | -7.5 | 12.9 | — | — | — | — | RNAV1 |
| 004 | TF | SCOPE | — | 036 (028.5) | -7.5 | 20.0 | — | 10000 | — | — | RNAV1 |
| 005 | TF | T6R70 | — | 036 (028.6) | -7.5 | 14.0 | — | — | — | — | RNAV1 |
| 006 | TF | NUMAN | — | 360 (352.5) | -7.5 | 11.1 | — | 9000 | 210 | — | RNAV1 |
| 007 | TF | NORIK | — | 360 (352.5) | -7.5 | 7.3 | — | — | — | — | RNAV1 |
| 008 | TF | T6R71 | — | 006 (358.9) | -7.5 | 6.5 | — | — | — | — | RNAV1 |
| 009 | TF | T6R72 | — | 342 (334.4) | -7.5 | 5.0 | — | — | — | — | RNAV1 |
| 010 | TF | NURSE | — | 317 (309.8) | -7.5 | 6.5 | — | 9000 | 210 | — | RNAV1 |
| 011 | TF | NEURO | — | 213 (205.5) | -7.5 | 13.5 | — | 6000 | — | — | RNAV1 |
| 012 | TF | NIGEL | — | 252 (244.1) | -7.5 | 3.1 | — | 6000 | — | — | RNAV1 |
| 013 | TF | NATTY | — | 252 (244.1) | -7.5 | 5.2 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 290 (282.9) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

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

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL
AROSA R ARRIVAL

RNAV 1

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

VAR 8° W(2019)

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

NUMAN
MHA 4000

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)

SNARE

MHA 4000

717°
297°

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

SPINE
MHA 4000

89°
84°

AROSA L ARRIVAL

SPINE
SNOKE
SHAFT
9000

AROSA R ARRIVAL

NUMAN
9000
210KIAS
T6R72
T6R71
NORIK
SCOPE
10000

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°

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

CHANGE : T6L60 abolished. SACHS established.

AROSA R ARRIVAL

AROSA L ARRIVAL

SLICK
11000
230KIAS

328°
311°

101°
102°

290°
281°

TT257
TT256

81°
82°

ALDEN
11000
230KIAS

151°
152°

AVEEY
11000
230KIAS

164°
277°

AROSA

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA L ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 337 (330.0) | -7.5 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 337 (329.9) | -7.5 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.5 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SLICK | - | 311 (303.1) | -7.5 | 10.2 | - | 11000 | 230 | - | RNAV1 |
| 007 | TF | SHAFT | - | 052 (044.3) | -7.5 | 25.6 | - | 9000 | - | - | RNAV1 |
| 008 | TF | SNOKE | - | 011 (003.4) | -7.5 | 13.4 | - | - | - | - | RNAV1 |
| 009 | TF | SPINE | - | 348 (340.6) | -7.5 | 6.8 | - | - | - | - | RNAV1 |
| 010 | TF | SOPPY | - | 297 (289.2) | -7.5 | 8.4 | - | -7000 | - | - | RNAV1 |
| 011 | TF | SNARE | - | 297 (289.1) | -7.5 | 7.8 | - | 6000 | - | - | RNAV1 |
| 012 | TF | SACHS | - | 297 (289.0) | -7.5 | 3.4 | - | - | - | - | RNAV1 |
| 013 | TF | SANDY | - | 288 (280.0) | -7.5 | 3.8 | - | - | - | - | RNAV1 |

CHANGE : T6L60 abolished. SACHS established.

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

AROSA R ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | 11000 | 230 | - | RNAV1 |
| 003 | TF | ALDEN | - | 337 (330.0) | -7.5 | 11.3 | - | 11000 | 230 | - | RNAV1 |
| 004 | TF | TT256 | - | 337 (329.9) | -7.5 | 6.1 | - | - | - | - | RNAV1 |
| 005 | TF | TT257 | - | 290 (282.4) | -7.5 | 8.1 | - | - | - | - | RNAV1 |
| 006 | TF | SCOUT | - | 328 (320.5) | -7.5 | 10.1 | - | - | - | - | RNAV1 |
| 007 | TF | SCOPE | - | 036 (028.5) | -7.5 | 20.0 | - | 10000 | - | - | RNAV1 |
| 008 | TF | T6R70 | - | 036 (028.6) | -7.5 | 14.0 | - | - | - | - | RNAV1 |
| 009 | TF | NUMAN | - | 360 (352.5) | -7.5 | 11.1 | - | 9000 | 210 | - | RNAV1 |
| 010 | TF | NORIK | - | 360 (352.5) | -7.5 | 7.3 | - | - | - | - | RNAV1 |
| 011 | TF | T6R71 | - | 006 (358.9) | -7.5 | 6.5 | - | - | - | - | RNAV1 |
| 012 | TF | T6R72 | - | 342 (334.4) | -7.5 | 5.0 | - | - | - | - | RNAV1 |
| 013 | TF | NURSE | - | 317 (309.8) | -7.5 | 6.5 | - | 9000 | 210 | - | RNAV1 |
| 014 | TF | NEURO | - | 213 (205.5) | -7.5 | 13.5 | - | 6000 | - | - | RNAV1 |
| 015 | TF | NIGEL | - | 252 (244.1) | -7.5 | 3.1 | - | 6000 | - | - | RNAV1 |
| 016 | TF | NATTY | - | 252 (244.1) | -7.5 | 5.2 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 290 (282.9) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

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

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

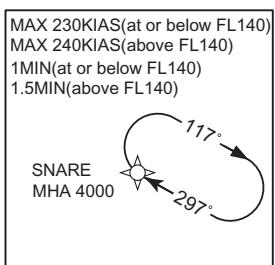
GODIN L ARRIVAL
GODIN R ARRIVAL

RNAV STAR RWY16L/16R

RNAV 1

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

VAR 8° W(2019)



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

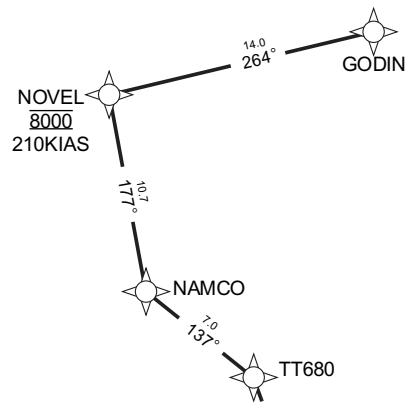
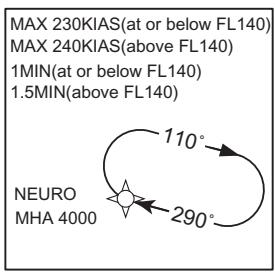
NOVEL
MHA 5000

264°
084°

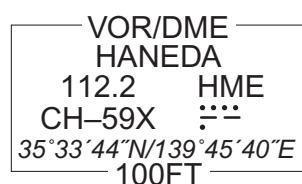
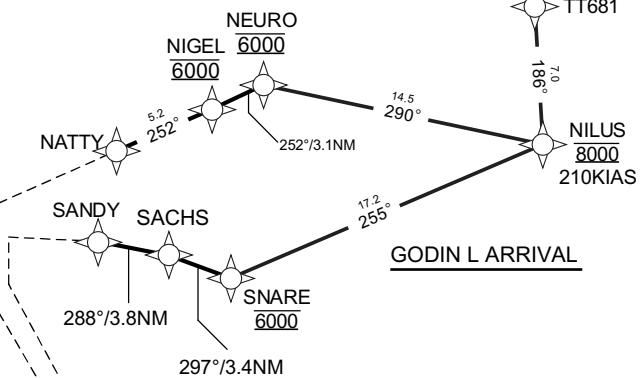
MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)
1MIN(at or below FL140)
1.5MIN(above FL140)

017°
197°

GODIN
MHA 8000



GODIN R ARRIVAL



CHANGE : T6L60 abolished, SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN L ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | NOVEL | - | 264 (256.4) | -7.5 | 14.0 | - | 8000 | 210 | - | RNAV1 |
| 003 | TF | NAMCO | - | 177 (169.8) | -7.5 | 10.7 | - | - | - | - | RNAV1 |
| 004 | TF | TT680 | - | 137 (129.7) | -7.5 | 7.0 | - | - | - | - | RNAV1 |
| 005 | TF | TT681 | - | 162 (154.3) | -7.5 | 5.4 | - | - | - | - | RNAV1 |
| 006 | TF | NILUS | - | 186 (178.9) | -7.5 | 7.0 | - | 8000 | 210 | - | RNAV1 |
| 007 | TF | SNARE | - | 255 (247.0) | -7.5 | 17.2 | - | 6000 | - | - | RNAV1 |
| 008 | TF | SACHS | - | 297 (289.0) | -7.5 | 3.4 | - | - | - | - | RNAV1 |
| 009 | TF | SANDY | - | 288 (280.0) | -7.5 | 3.8 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

GODIN R ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | GODIN | – | – | -7.5 | – | – | – | – | – | RNAV1 |
| 002 | TF | NOVEL | – | 264 (256.4) | -7.5 | 14.0 | – | 8000 | 210 | – | RNAV1 |
| 003 | TF | NAMCO | – | 177 (169.8) | -7.5 | 10.7 | – | – | – | – | RNAV1 |
| 004 | TF | TT680 | – | 137 (129.7) | -7.5 | 7.0 | – | – | – | – | RNAV1 |
| 005 | TF | TT681 | – | 162 (154.3) | -7.5 | 5.4 | – | – | – | – | RNAV1 |
| 006 | TF | NILUS | – | 186 (178.9) | -7.5 | 7.0 | – | 8000 | 210 | – | RNAV1 |
| 007 | TF | NEURO | – | 290 (282.9) | -7.5 | 14.5 | – | 6000 | – | – | RNAV1 |
| 008 | TF | NIGEL | – | 252 (244.1) | -7.5 | 3.1 | – | 6000 | – | – | RNAV1 |
| 009 | TF | NATTY | – | 252 (244.1) | -7.5 | 5.2 | – | – | – | – | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | – | R | 8000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | – | L | 5000 | – | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 290 (282.9) | -7.5 | 1.0(-14000) 1.5(+14001) | – | R | 4000 | – | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

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

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

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

2) RADAR service required

VAR 8° W(2019)

POLIX L ARRIVAL
POLIX R ARRIVAL

RNAV 1

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX L ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | — | — | -7.5 | — | — | FL150 | — | — | RNAV1 |
| 002 | TF | GODIN | — | 335 (327.2) | -7.5 | 14.1 | — | — | — | — | RNAV1 |
| 003 | TF | NOVEL | — | 264 (256.4) | -7.5 | 14.0 | — | 8000 | 210 | — | RNAV1 |
| 004 | TF | NAMCO | — | 177 (169.8) | -7.5 | 10.7 | — | — | — | — | RNAV1 |
| 005 | TF | TT680 | — | 137 (129.7) | -7.5 | 7.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT681 | — | 162 (154.3) | -7.5 | 5.4 | — | — | — | — | RNAV1 |
| 007 | TF | NILUS | — | 186 (178.9) | -7.5 | 7.0 | — | 8000 | 210 | — | RNAV1 |
| 008 | TF | SNARE | — | 255 (247.0) | -7.5 | 17.2 | — | 6000 | — | — | RNAV1 |
| 009 | TF | SACHS | — | 297 (289.0) | -7.5 | 3.4 | — | — | — | — | RNAV1 |
| 010 | TF | SANDY | — | 288 (280.0) | -7.5 | 3.8 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 11000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

POLIX R ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | POLIX | — | — | -7.5 | — | — | FL150 | — | — | RNAV1 |
| 002 | TF | GODIN | — | 335 (327.2) | -7.5 | 14.1 | — | — | — | — | RNAV1 |
| 003 | TF | NOVEL | — | 264 (256.4) | -7.5 | 14.0 | — | 8000 | 210 | — | RNAV1 |
| 004 | TF | NAMCO | — | 177 (169.8) | -7.5 | 10.7 | — | — | — | — | RNAV1 |
| 005 | TF | TT680 | — | 137 (129.7) | -7.5 | 7.0 | — | — | — | — | RNAV1 |
| 006 | TF | TT681 | — | 162 (154.3) | -7.5 | 5.4 | — | — | — | — | RNAV1 |
| 007 | TF | NILUS | — | 186 (178.9) | -7.5 | 7.0 | — | 8000 | 210 | — | RNAV1 |
| 008 | TF | NEURO | — | 290 (282.9) | -7.5 | 14.5 | — | 6000 | — | — | RNAV1 |
| 009 | TF | NIGEL | — | 252 (244.1) | -7.5 | 3.1 | — | 6000 | — | — | RNAV1 |
| 010 | TF | NATTY | — | 252 (244.1) | -7.5 | 5.2 | — | — | — | — | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 11000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 290 (282.9) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : New PROC

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR RWY16L/16R

Waypoint Coordinates

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

CHANGE : T6L60 abolished. SACHS established.

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

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

RNAV 1

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

VAR 8° W(2019)

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

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

KAIHO
MHA 4000

353°
353°

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

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

OSHIMA NIGHT ARRIVAL

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

OSHIMA
(XAC)

UMUKI
6000

UTIBO

AKSEL

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

AROSA NIGHT ARRIVAL
AVEEY
16.4 277°
AROSA

AKSEL NIGHT ARRIVAL

AKSEL
MHA 5000

039°
219°

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

OSHIMA(XAC)
MHA 5000

098°
278°

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

AKSEL
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) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL NIGHT ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 014 (006.6) | -7.5 | 16.2 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA NIGHT ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | - | - | - | RNAV1 |
| 003 | TF | UTIBO | - | 310 (302.8) | -7.5 | 27.5 | - | - | - | - | RNAV1 |
| 004 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 005 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE NIGHT ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | MESSE | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 246 (238.8) | -7.5 | 27.4 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | - | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | MESSE | 246 (238.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 6000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

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

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

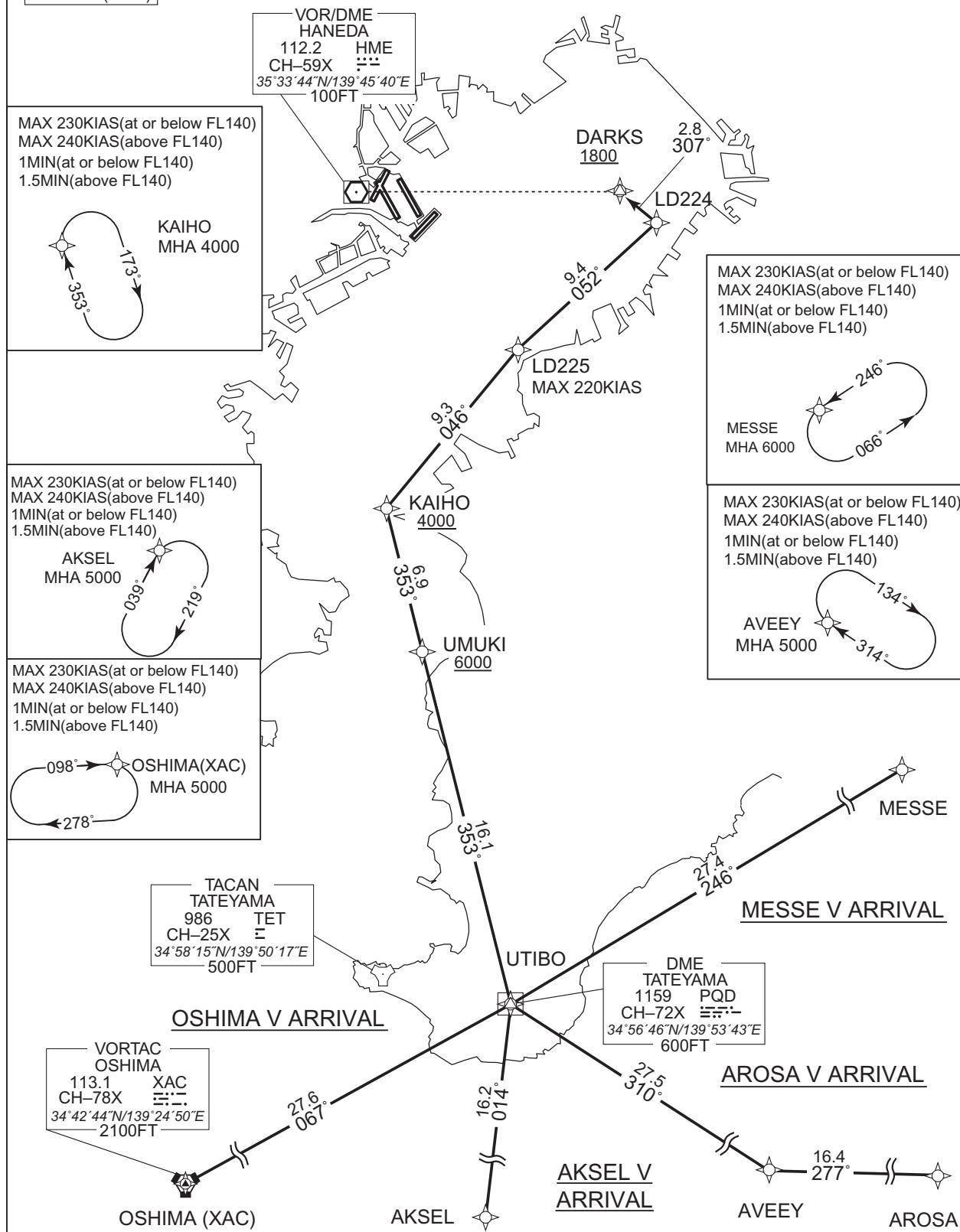
**OSHIMA V ARRIVAL / AKSEL V ARRIVAL
AROSA V ARRIVAL / MESSE V ARRIVAL**

RNAV 1

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

2) RADAR service required.

VAR 8° W(2019)



STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

OSHIMA V ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | XAC | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 067 (059.2) | -7.5 | 27.6 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | +4000 | - | - | RNAV1 |
| 005 | TF | LD225 | - | 046 (038.9) | -7.5 | 9.3 | - | - | -220 | - | RNAV1 |
| 006 | TF | LD224 | - | 052 (044.9) | -7.5 | 9.4 | - | - | - | - | RNAV1 |
| 007 | TF | DARKS | - | 307 (299.7) | -7.5 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AKSEL V ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course 'M('T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AKSEL | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 014 (006.6) | -7.5 | 16.2 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | +4000 | - | - | RNAV1 |
| 005 | TF | LD225 | - | 046 (038.9) | -7.5 | 9.3 | - | - | -220 | - | RNAV1 |
| 006 | TF | LD224 | - | 052 (044.9) | -7.5 | 9.4 | - | - | - | - | RNAV1 |
| 007 | TF | DARKS | - | 307 (299.7) | -7.5 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course 'M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

AROSA V ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | AROSA | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | AVEEY | - | 277 (269.8) | -7.5 | 16.4 | - | - | - | - | RNAV1 |
| 003 | TF | UTIBO | - | 310 (302.8) | -7.5 | 27.5 | - | - | - | - | RNAV1 |
| 004 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 005 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | +4000 | - | - | RNAV1 |
| 006 | TF | LD225 | - | 046 (038.9) | -7.5 | 9.3 | - | - | -220 | - | RNAV1 |
| 007 | TF | LD224 | - | 052 (044.9) | -7.5 | 9.4 | - | - | - | - | RNAV1 |
| 008 | TF | DARKS | - | 307 (299.7) | -7.5 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 5000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART-INSTRUMENT

RJTT / TOKYO INTL

RNAV STAR

MESSE V ARRIVAL

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

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

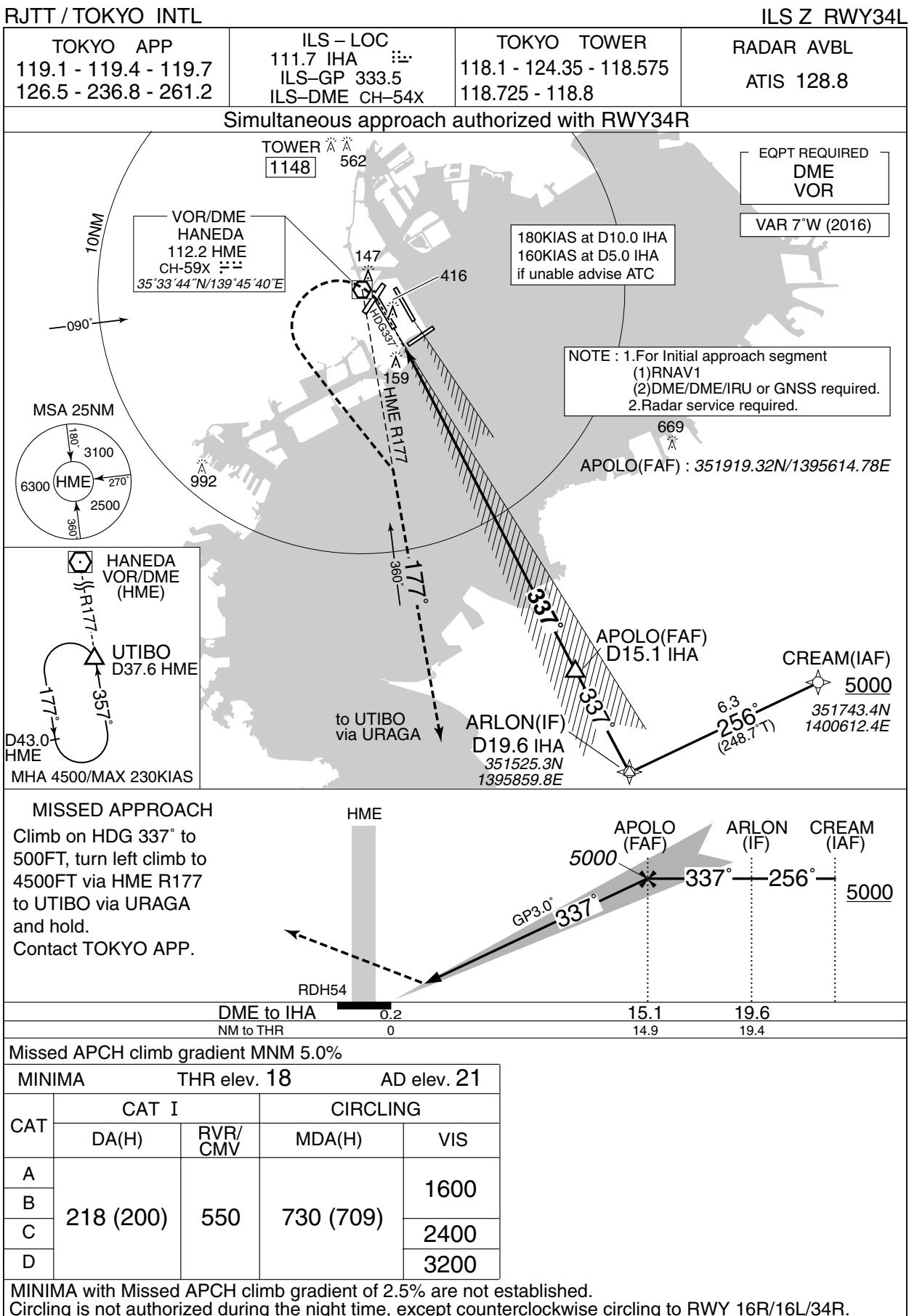
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | MESSE | - | - | -7.5 | - | - | - | - | - | RNAV1 |
| 002 | TF | UTIBO | - | 246 (238.8) | -7.5 | 27.4 | - | - | - | - | RNAV1 |
| 003 | TF | UMUKI | - | 353 (345.5) | -7.5 | 16.1 | - | +6000 | - | - | RNAV1 |
| 004 | TF | KAIHO | - | 353 (345.5) | -7.5 | 6.9 | - | +4000 | - | - | RNAV1 |
| 005 | TF | LD225 | - | 046 (038.9) | -7.5 | 9.3 | - | - | -220 | - | RNAV1 |
| 006 | TF | LD224 | - | 052 (044.9) | -7.5 | 9.4 | - | - | - | - | RNAV1 |
| 007 | TF | DARKS | - | 307 (299.7) | -7.5 | 2.8 | - | +1800 | - | - | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | MESSE | 246 (238.8) | -7.5 | 1.0(-14000) 1.5(+14001) | - | L | 6000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | - | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |

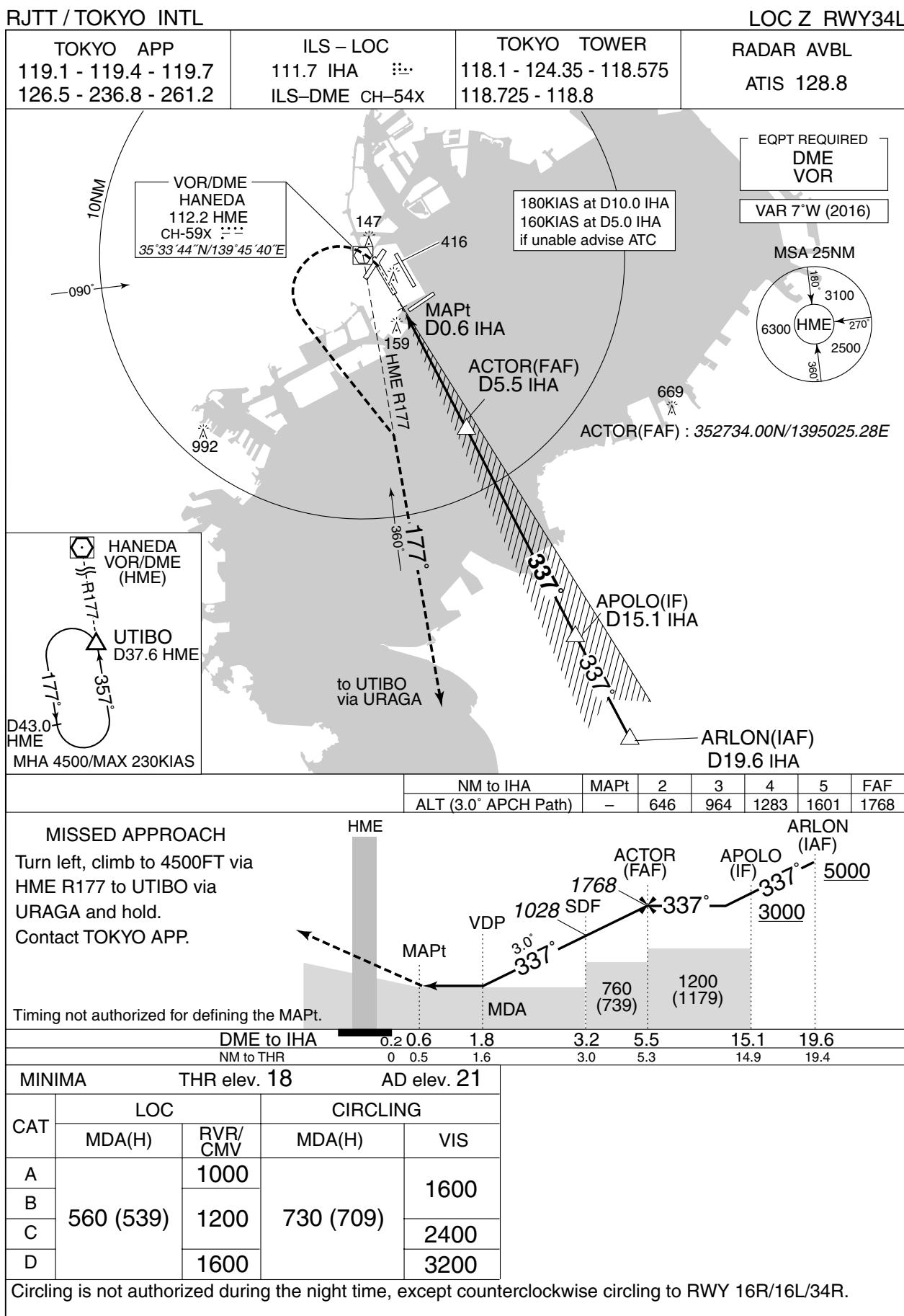
Waypoint Coordinates

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

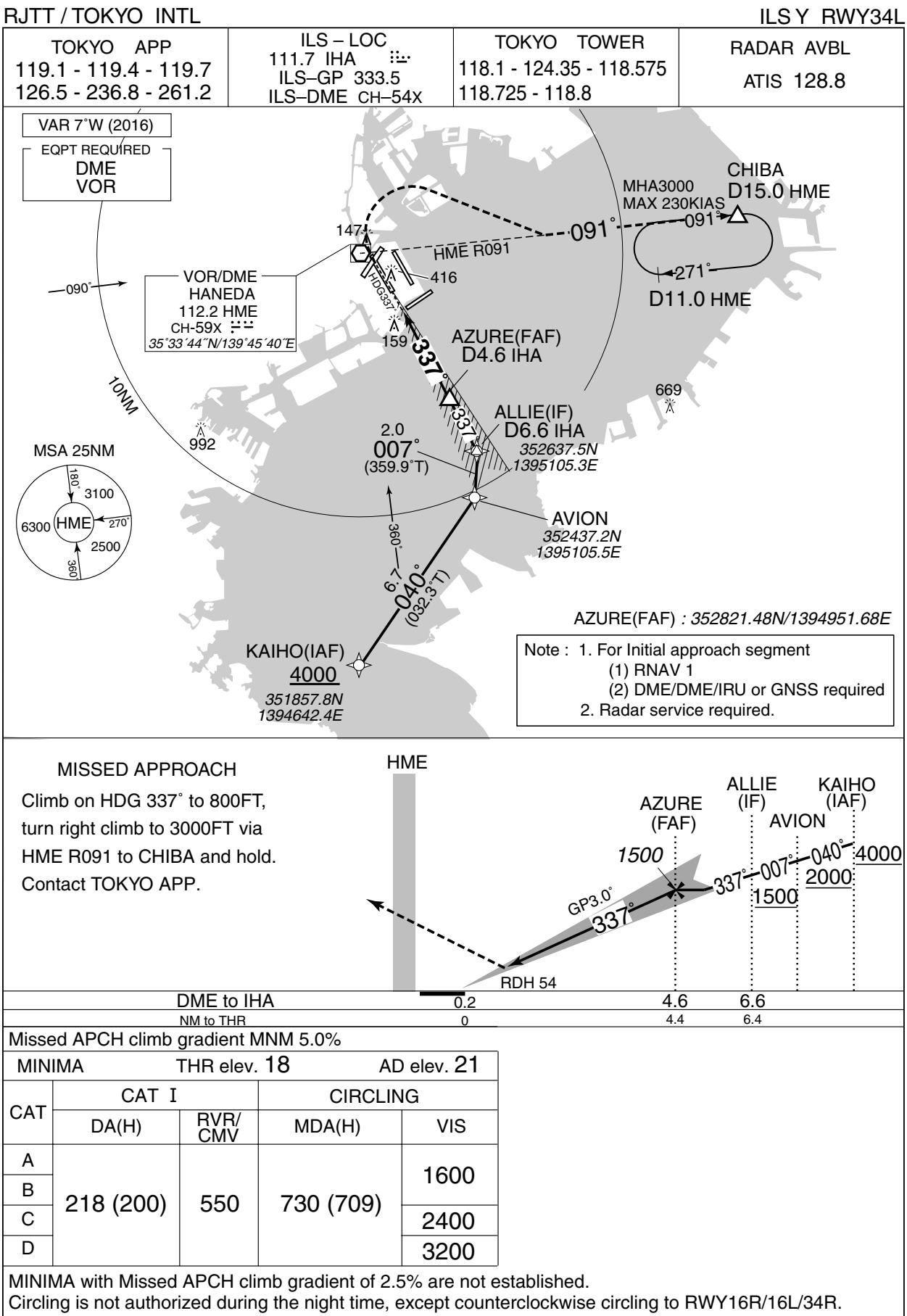
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



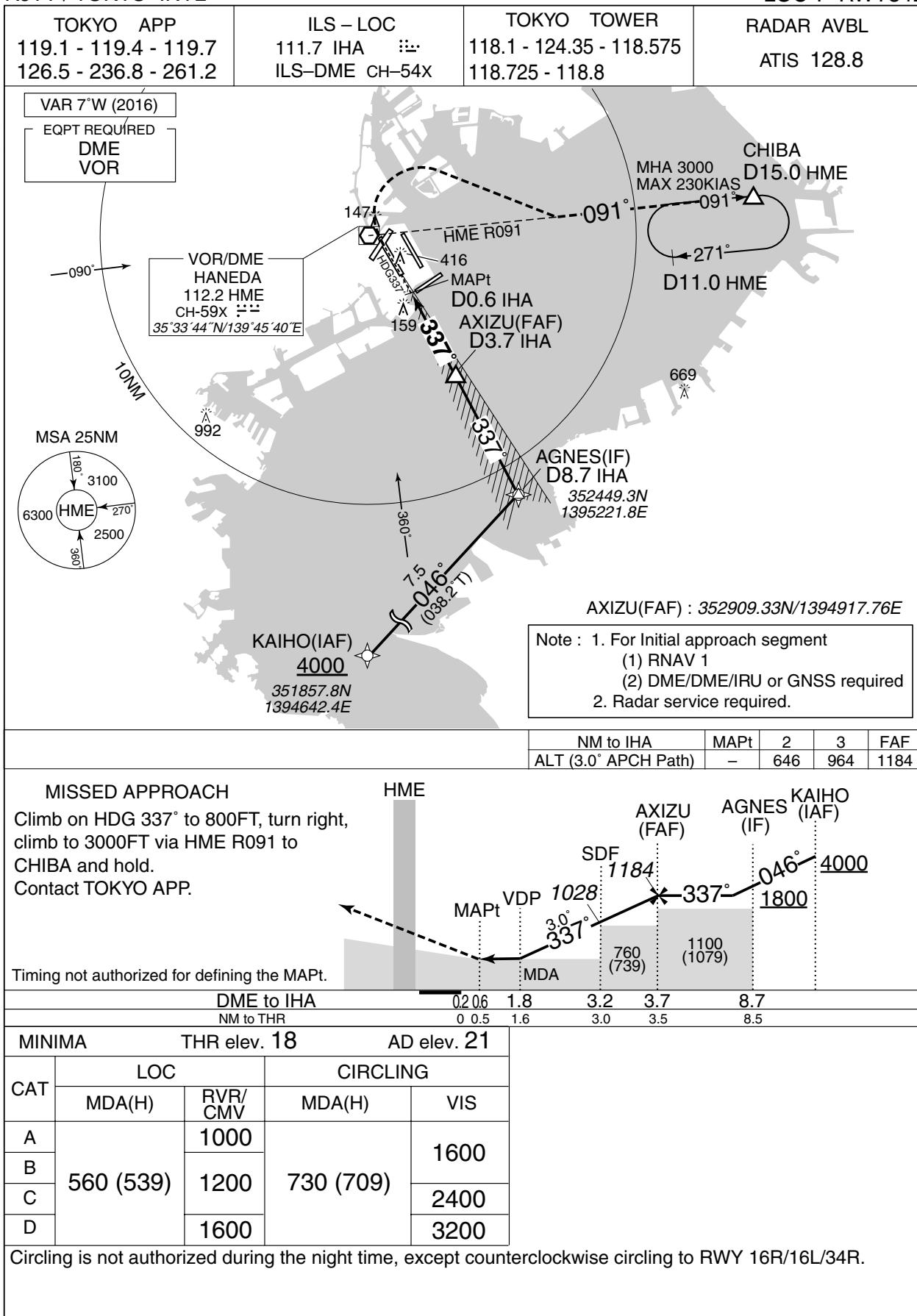
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

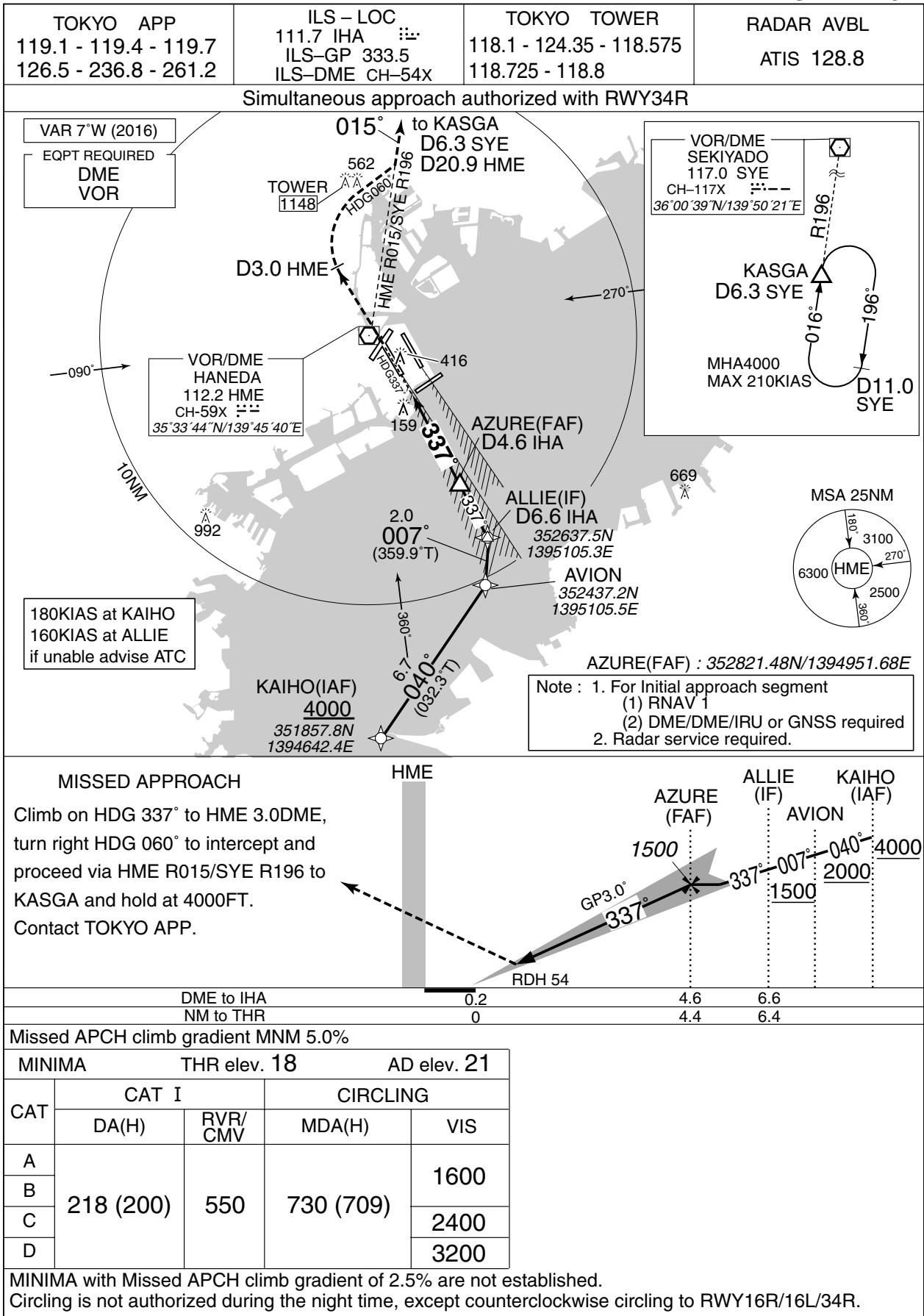
LOC Y RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

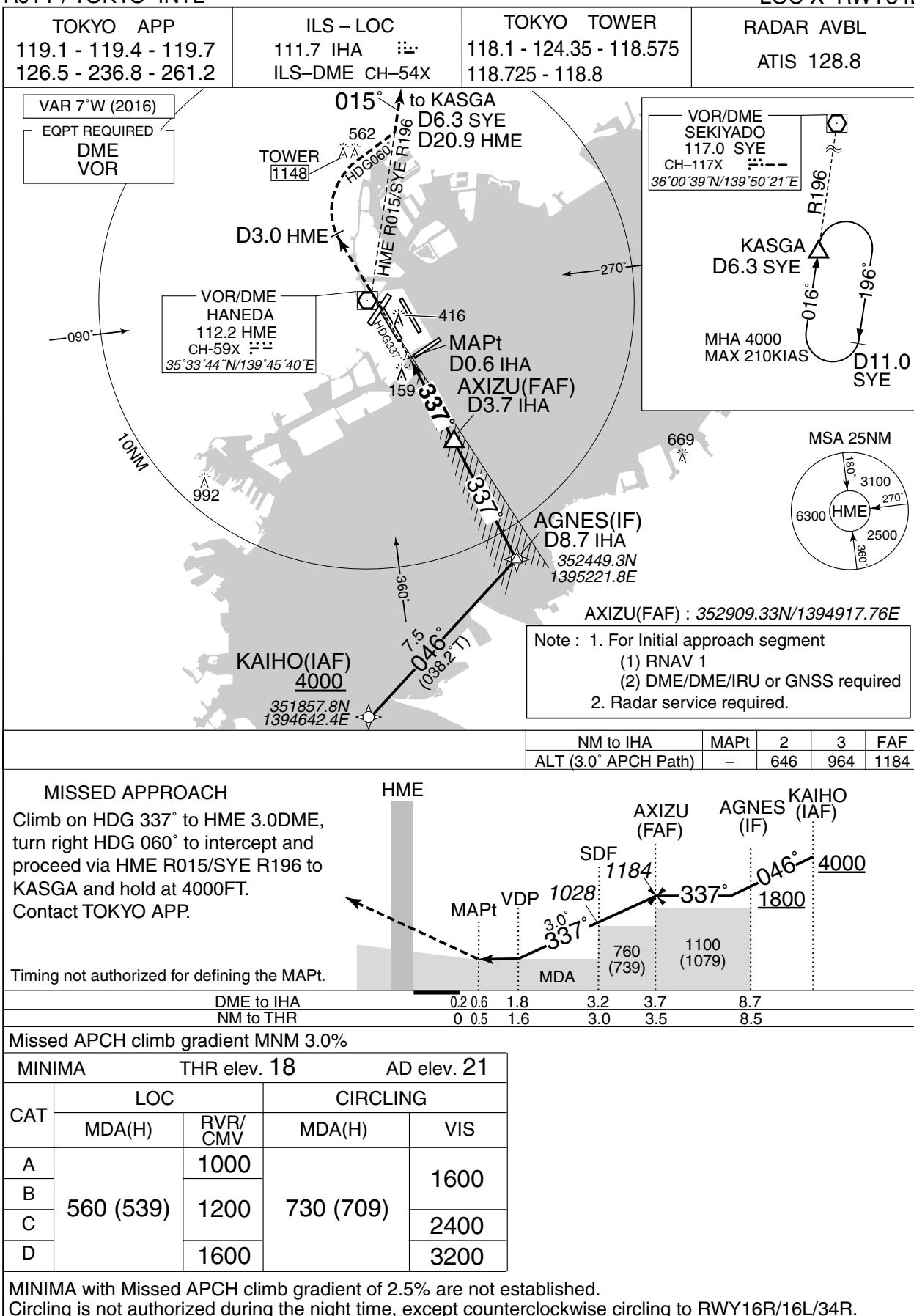
ILS X RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

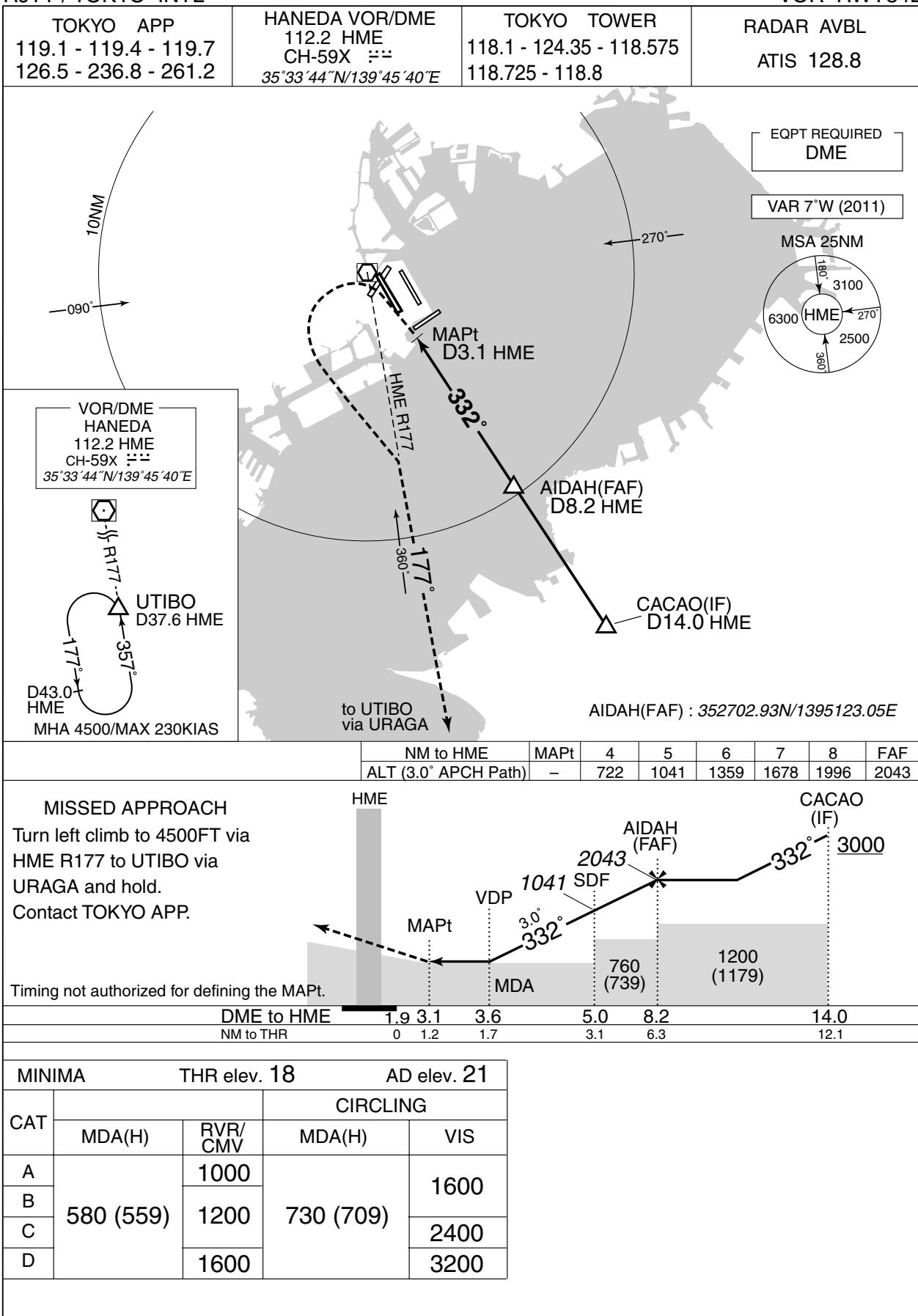
LOC X RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

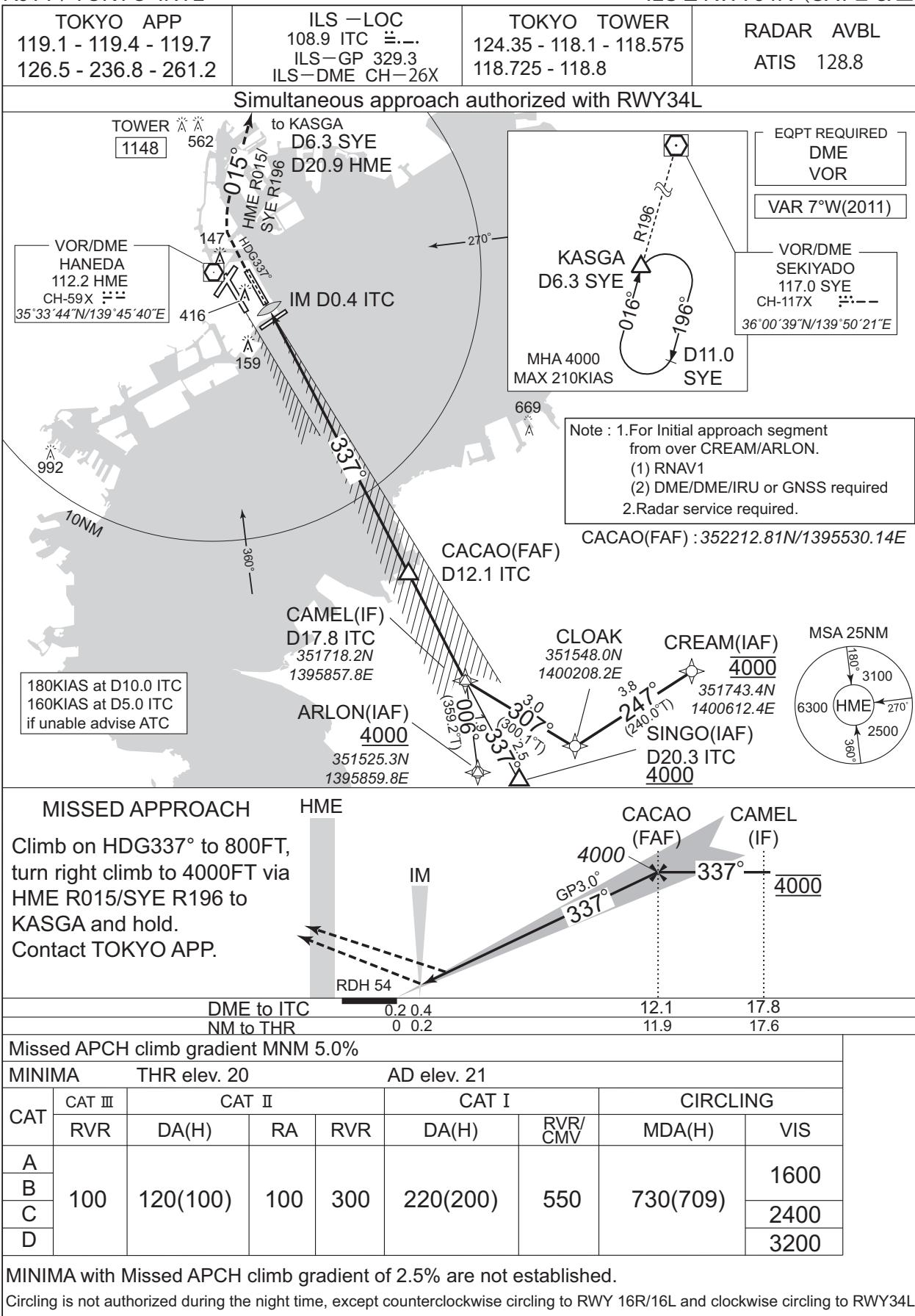
VOR RWY34L



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

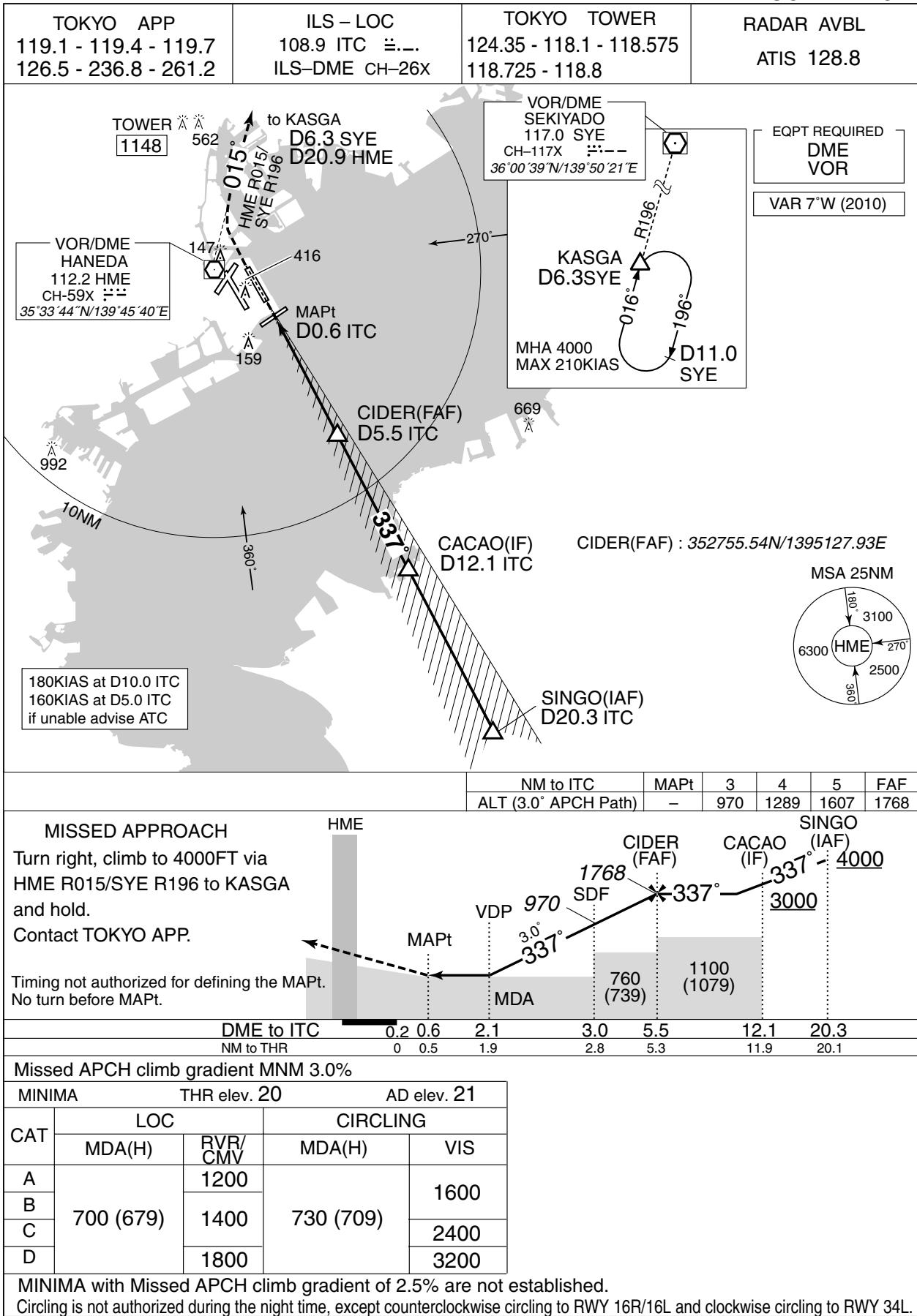
ILS Z RWY34R (CAT II & III)



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

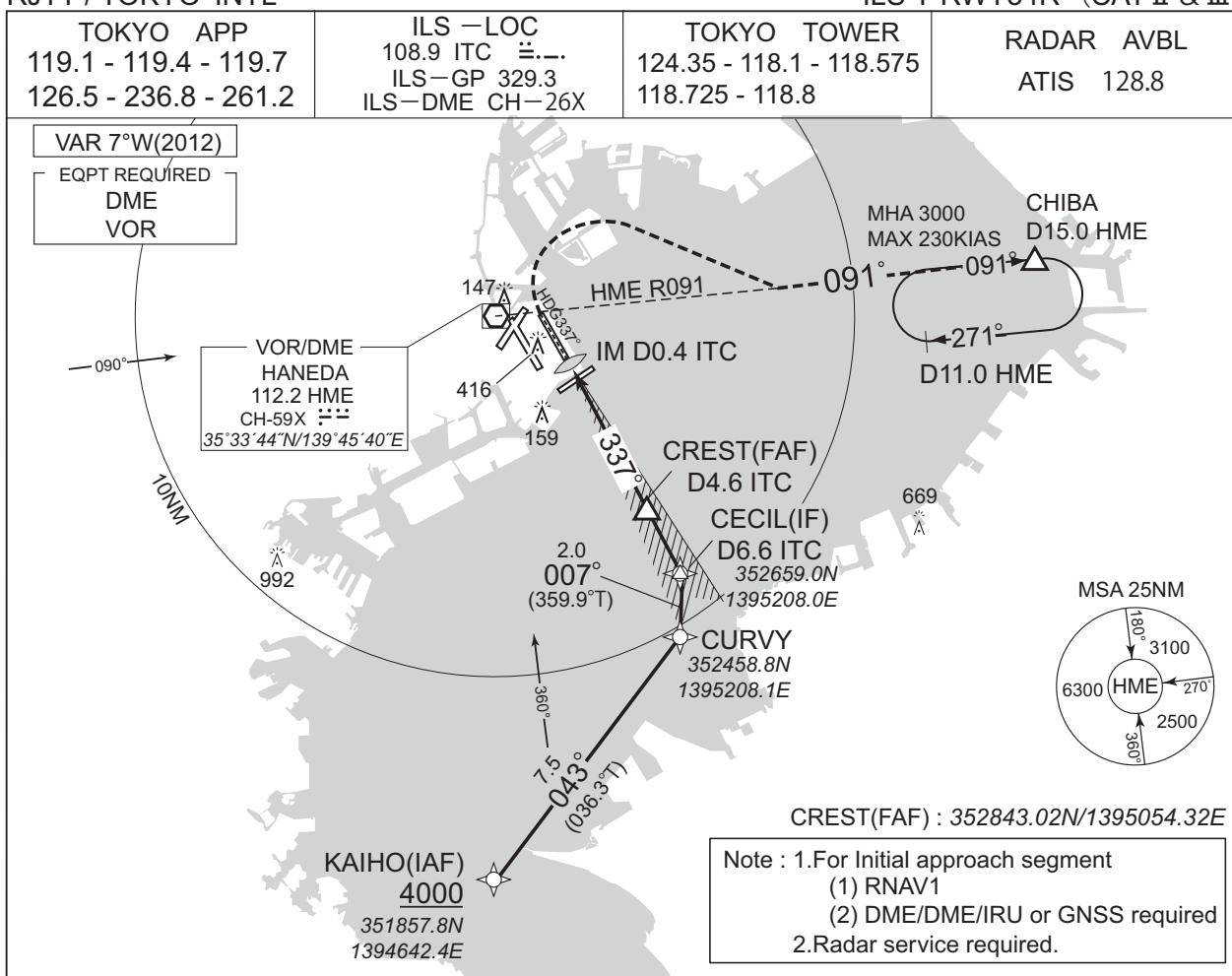
LOC Z RWY34R



INSTRUMENT APPROACH CHART

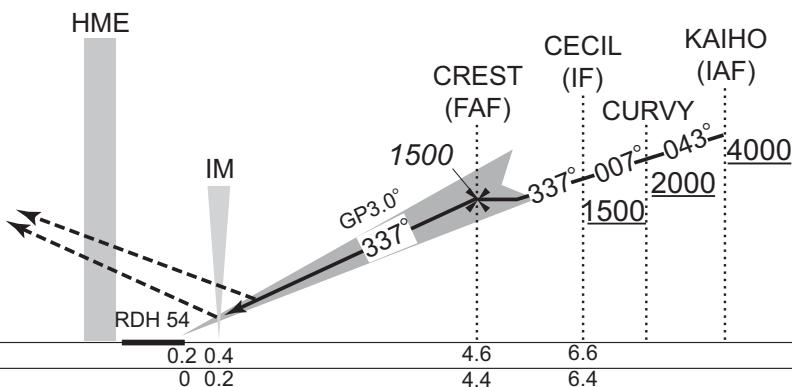
RJTT / TOKYO INTL

ILS Y RWY34R (CAT II & III)



MISSED APPROACH

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



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 20 AD elev. 21

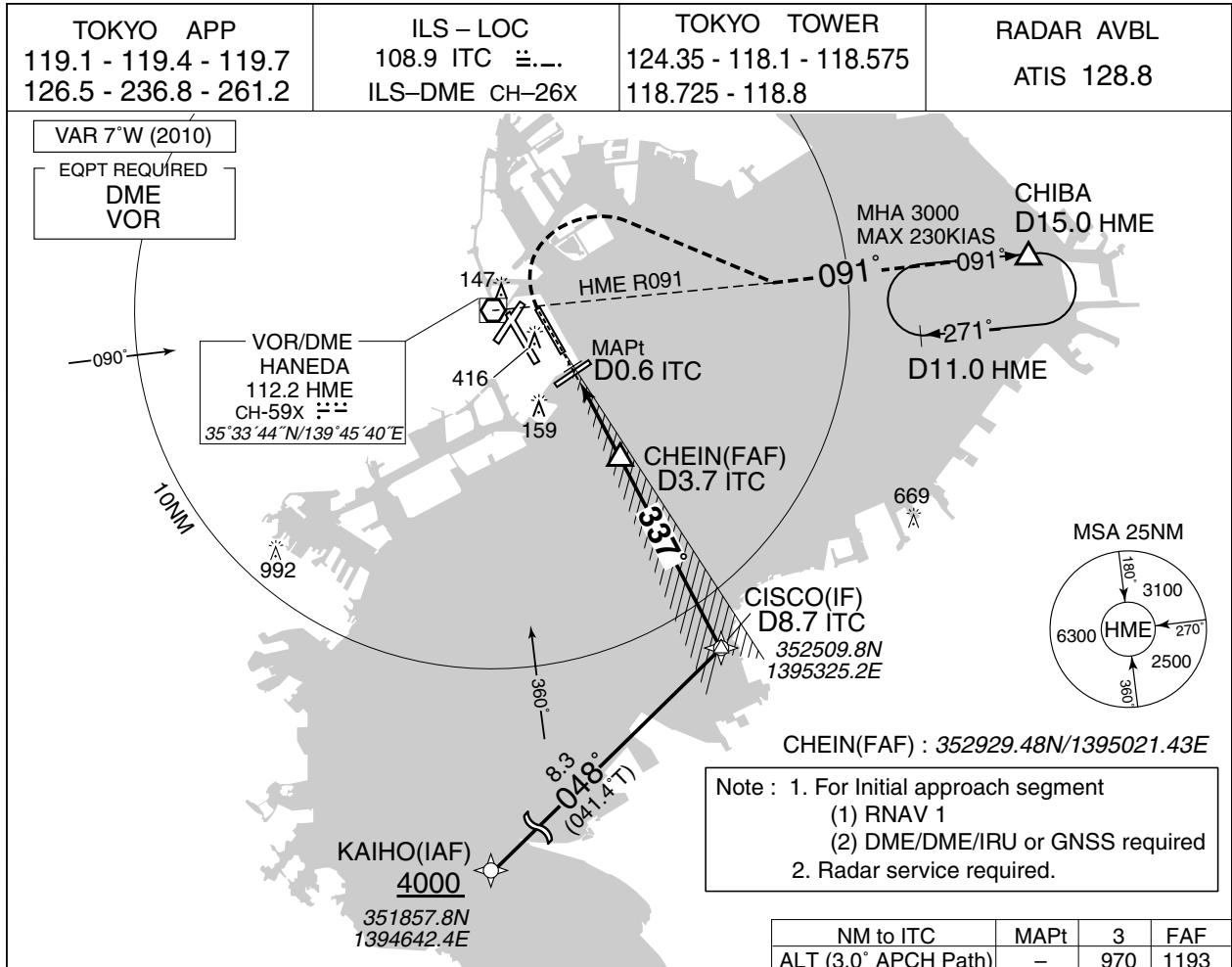
| CAT | CAT III | CAT II | | | CAT I | | CIRCLING | |
|-----|---------|----------|-----|-----|----------|---------|----------|------|
| | RVR | DA(H) | RA | RVR | DA(H) | RVR/CMV | MDA(H) | VIS |
| A | | | | | | | | 1600 |
| B | 100 | 120(100) | 100 | 300 | 220(200) | 550 | 730(709) | 2400 |
| C | |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

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling is not authorized during the night time, except counterclockwise circling to RWY 16R/16L and clockwise circling to RWY34L.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

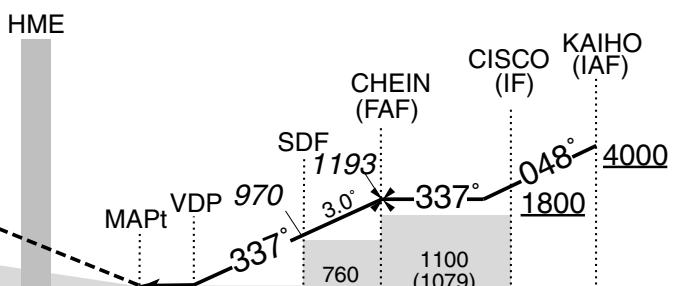
LOC Y RWY34R



MISSSED APPROACH

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

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

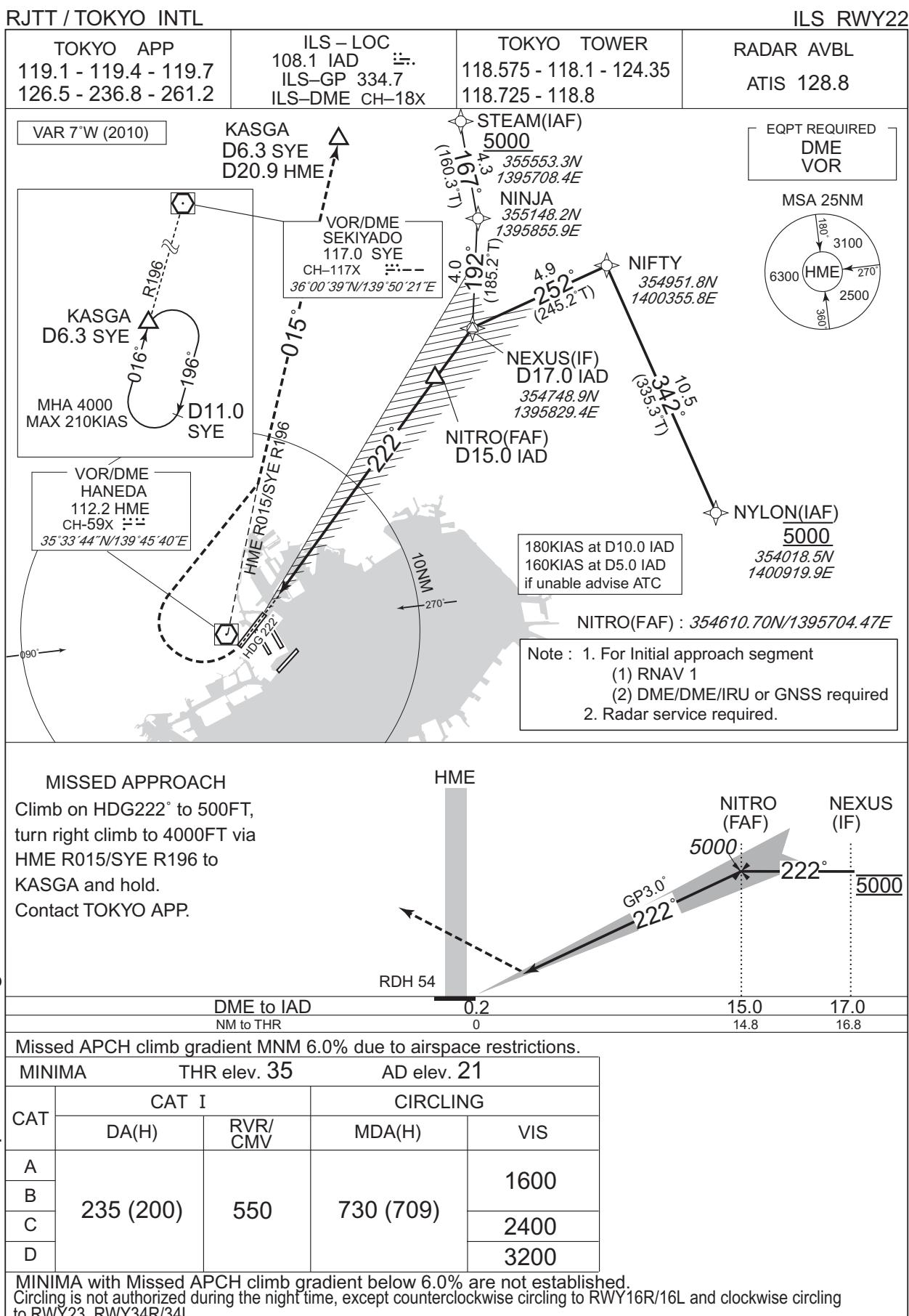


| DME to ITC | 0.2 | 0.6 | 2.1 | 3.0 | 3.7 | 8.7 |
|------------|-----|-----|-----|-----|-----|-----|
| NM to THR | 0 | 0.5 | 1.9 | 2.8 | 3.5 | 8.5 |

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

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

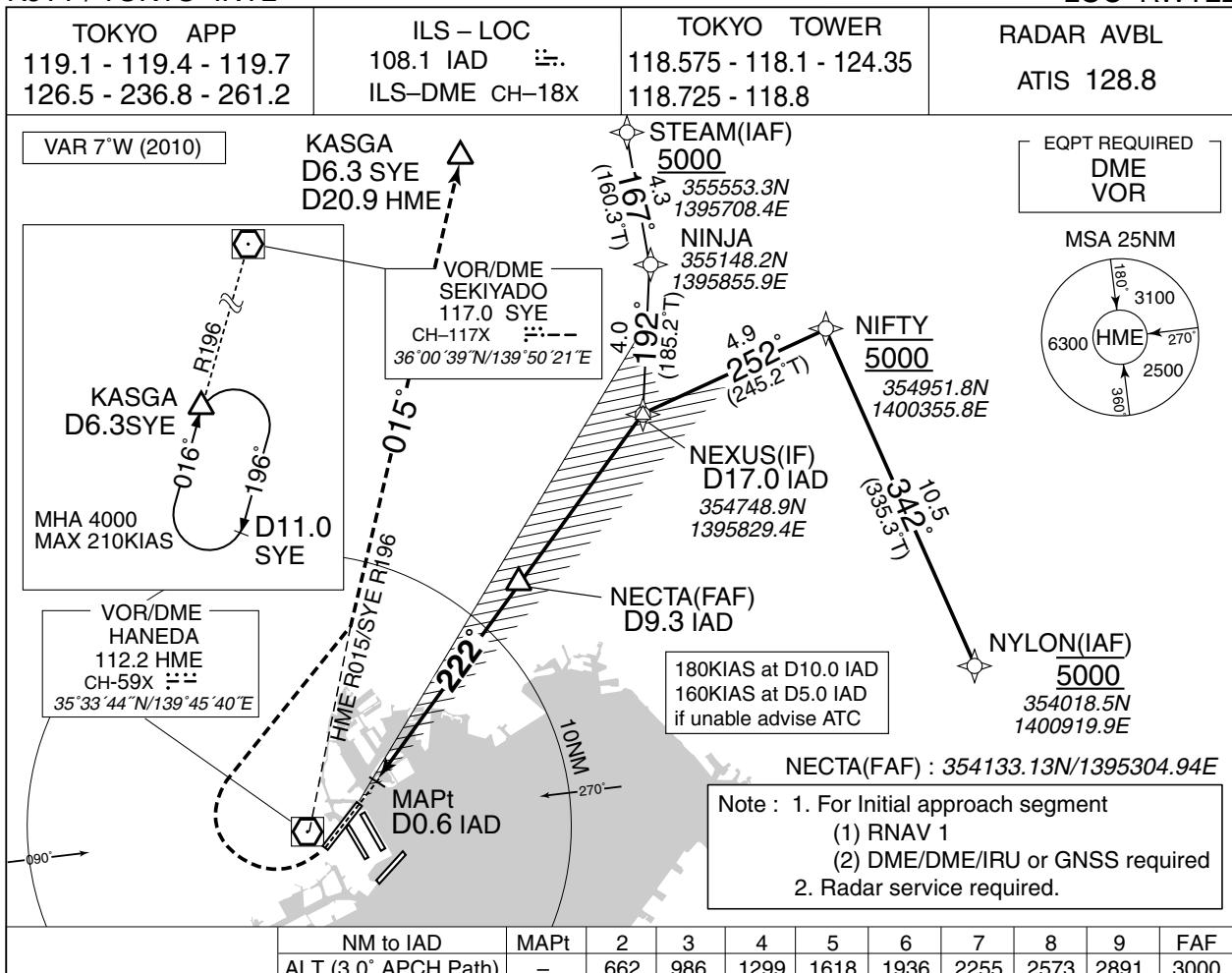
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

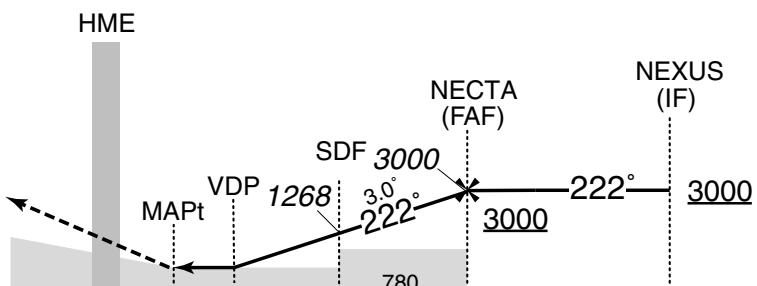
LOC RWY22



MISSED APPROACH

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

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



DME to IAD
NM to THR

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

Missed APCH climb gradient MNM 4.0%

MINIMA THR elev. 35 AD elev. 21

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

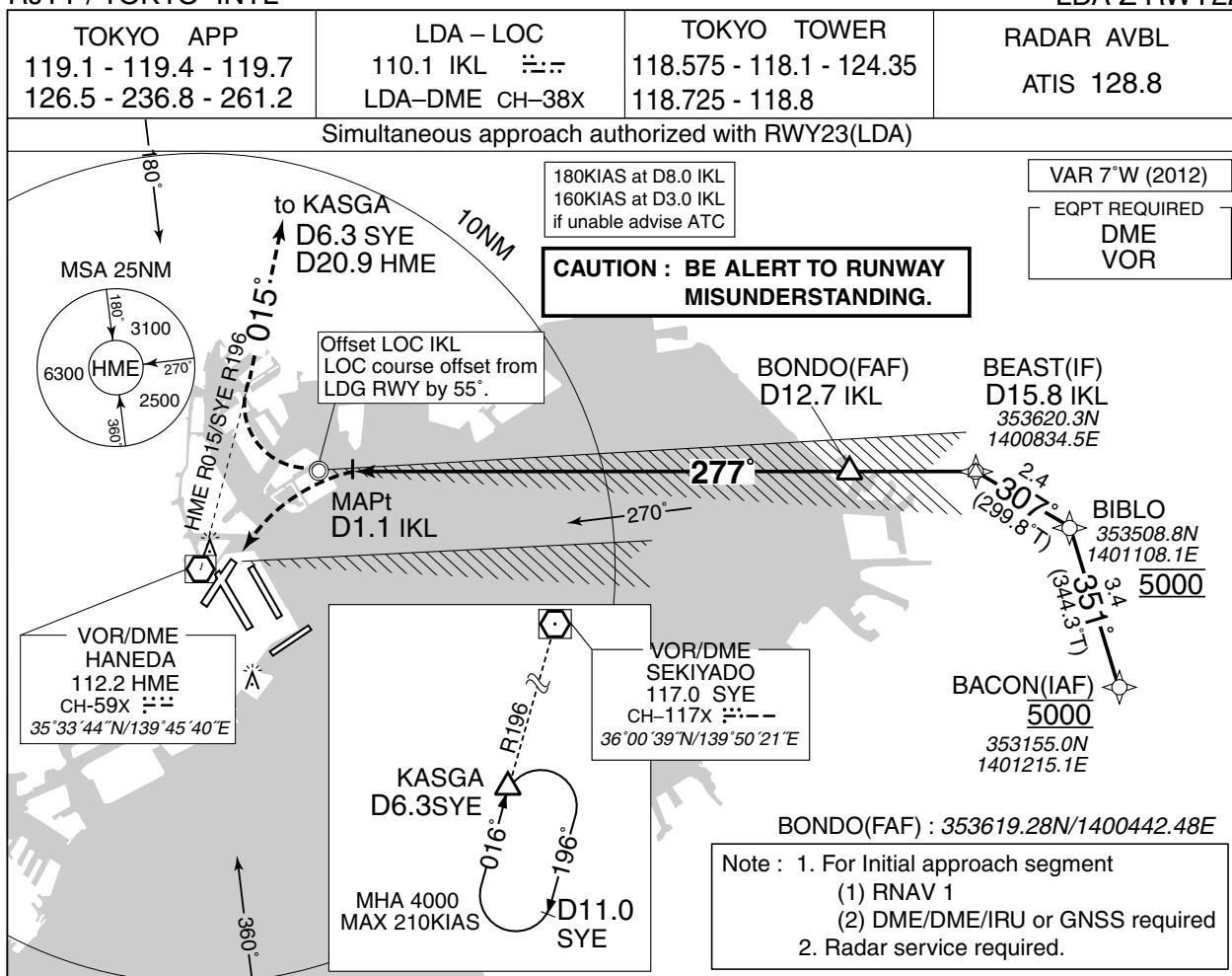
MINIMA with Missed APCH climb gradient of 2.5% are not established.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

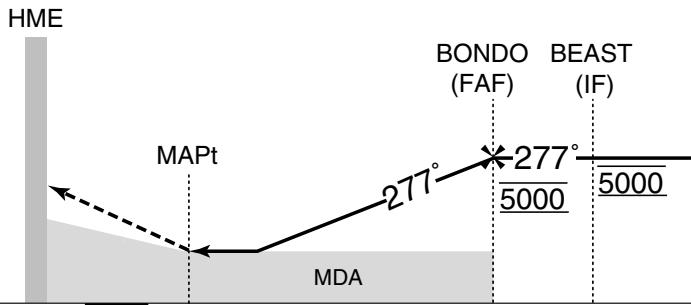
LDA Z RWY22



MISSSED APPROACH

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

Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 4.0%

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

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

**SO AS NOT TO MISUNDERSTAND
THE RUNWAY**

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

INSTRUMENT APPROACH CHART

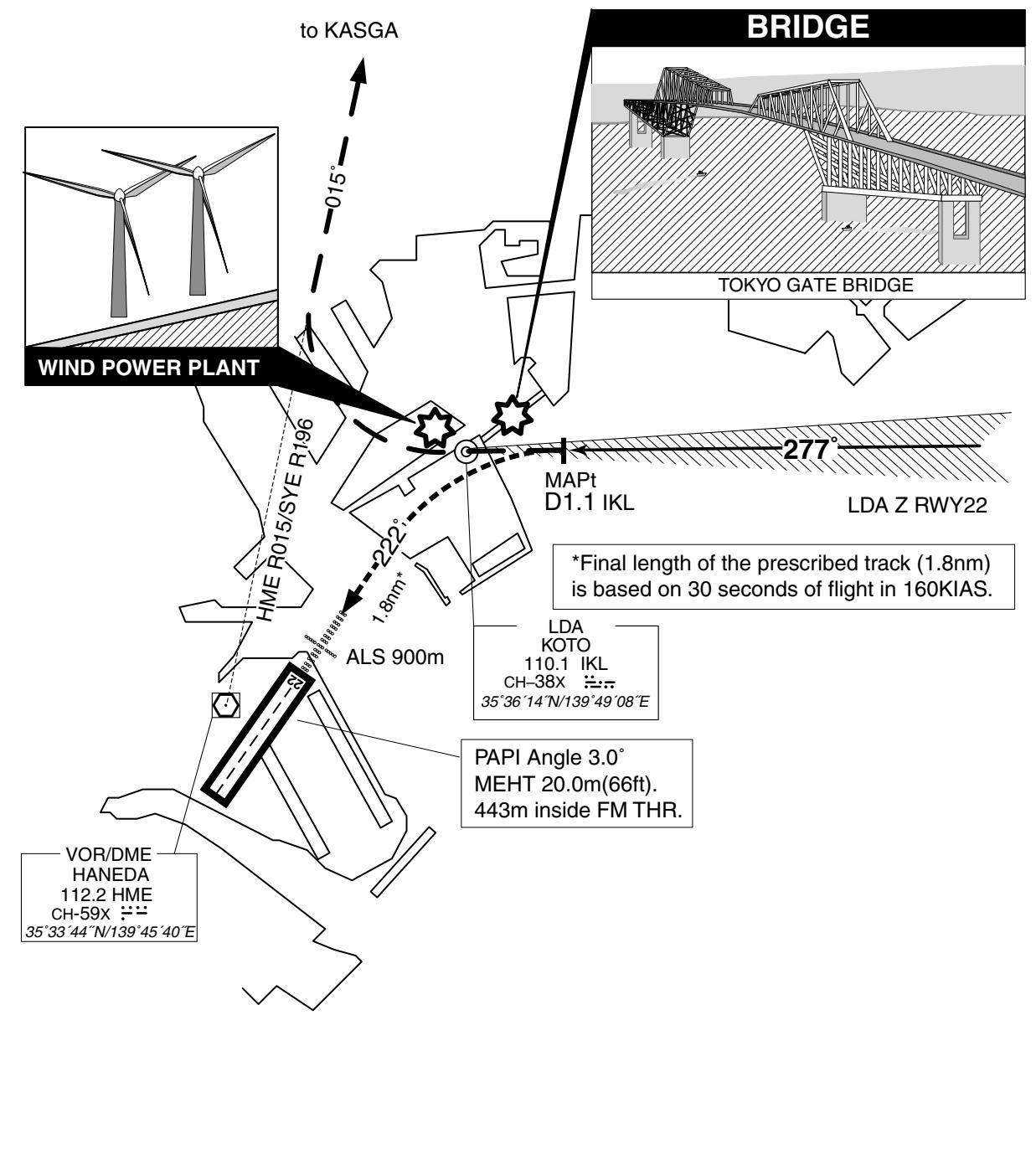
RJTT / TOKYO INTL

LDA Z RWY22

Visual Prescribed Track for LDA Z RWY22

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

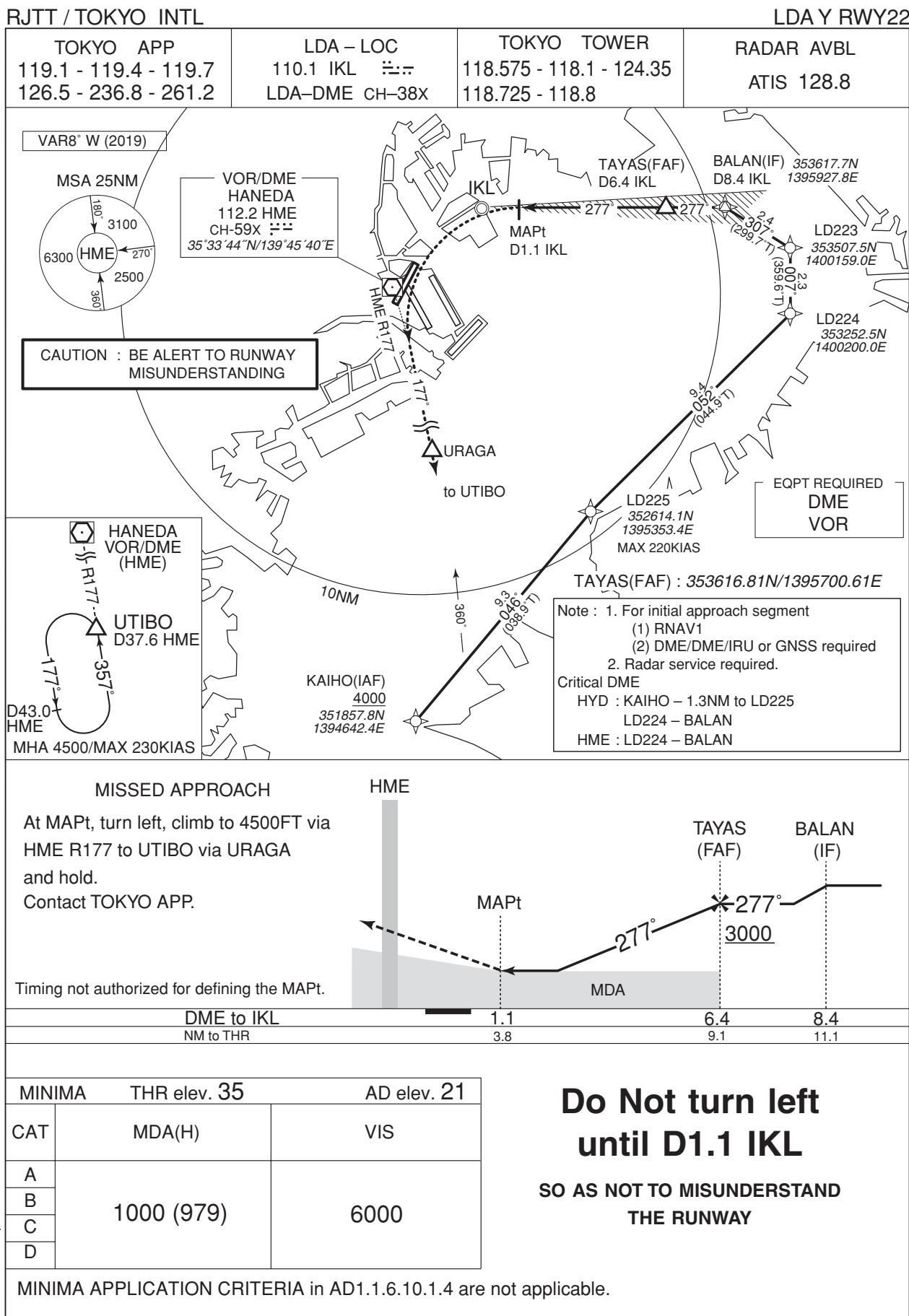
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

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

INSTRUMENT APPROACH CHART



CHANGE : Update

INSTRUMENT APPROACH CHART

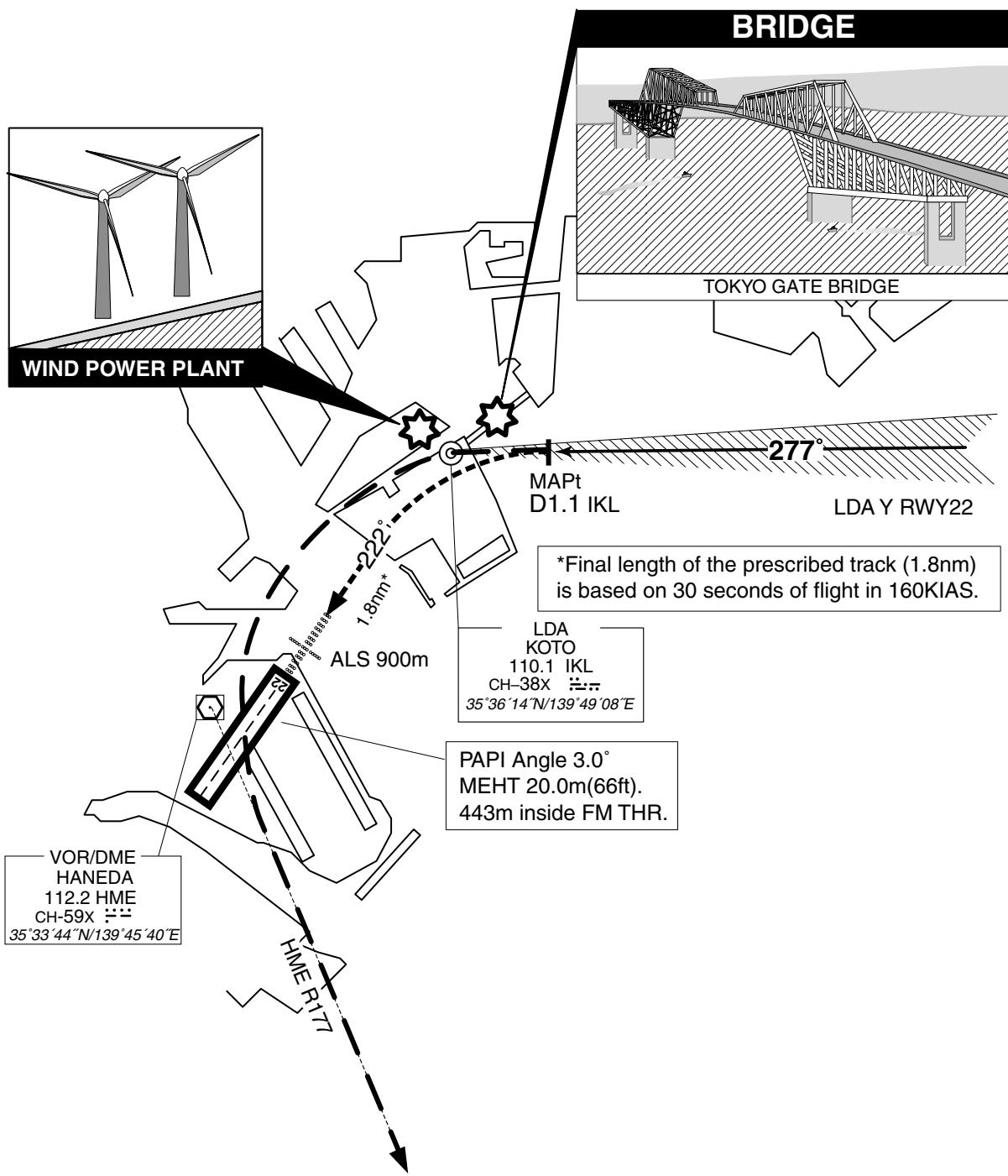
RJTT / TOKYO INTL

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.

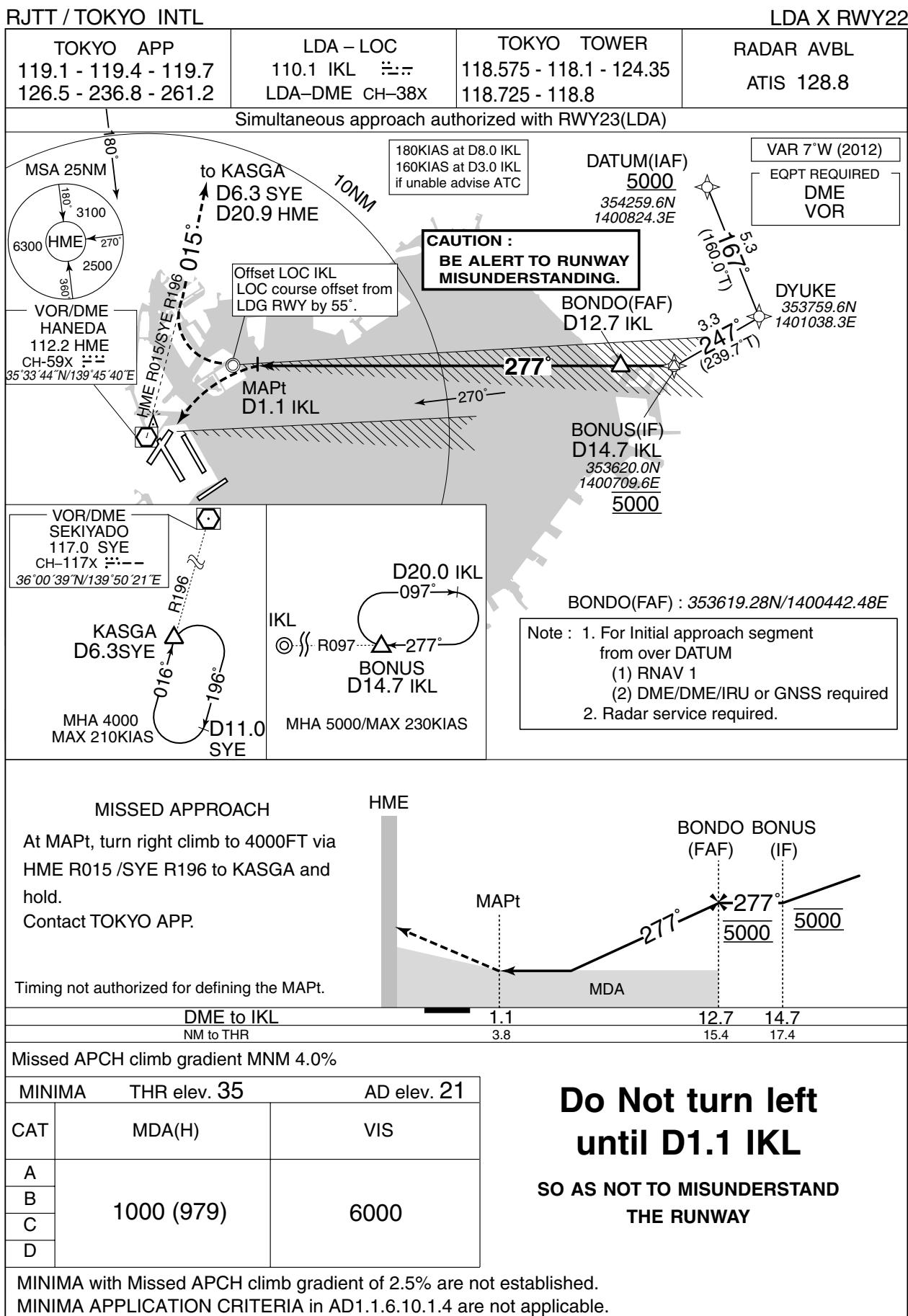
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

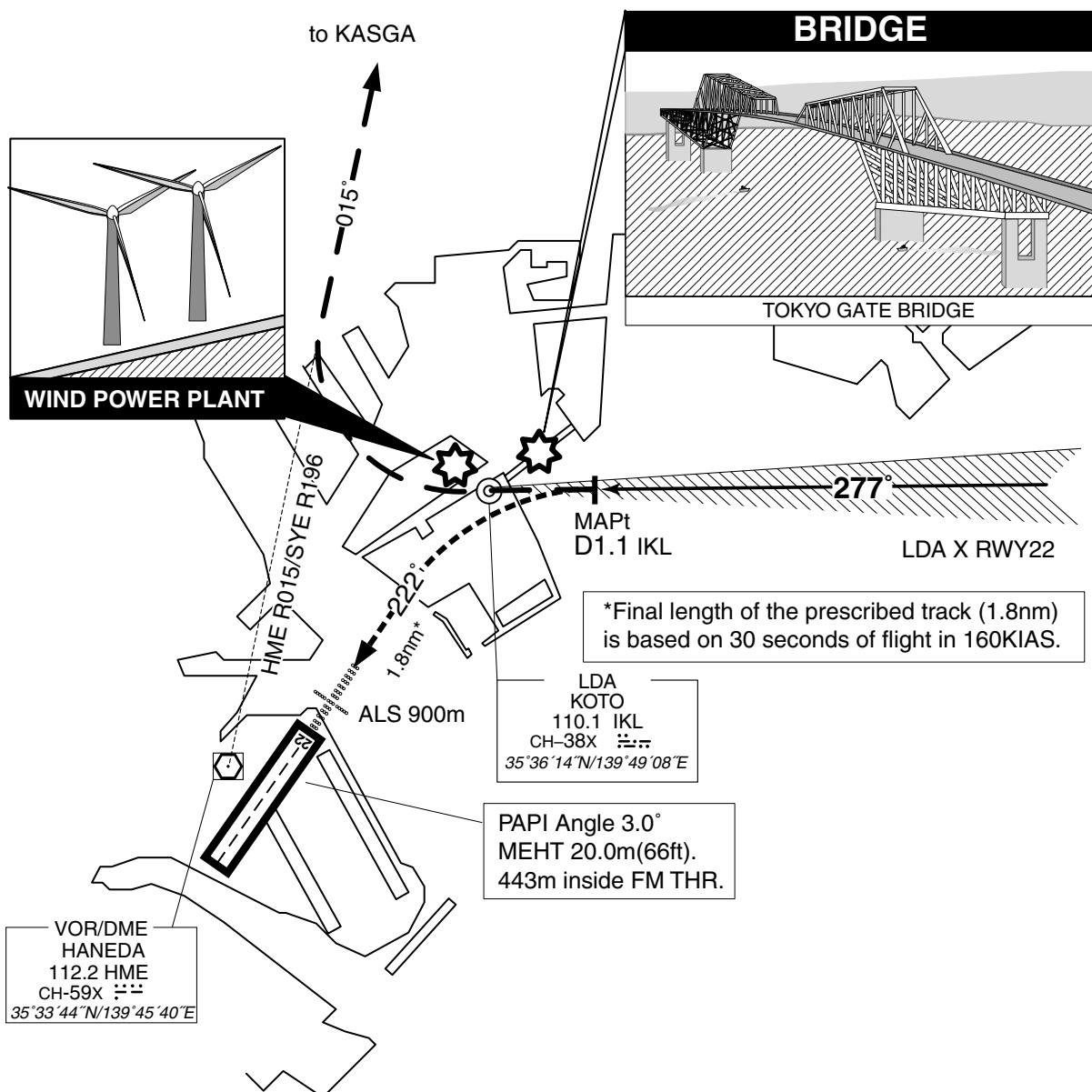
RJTT / TOKYO INTL

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.

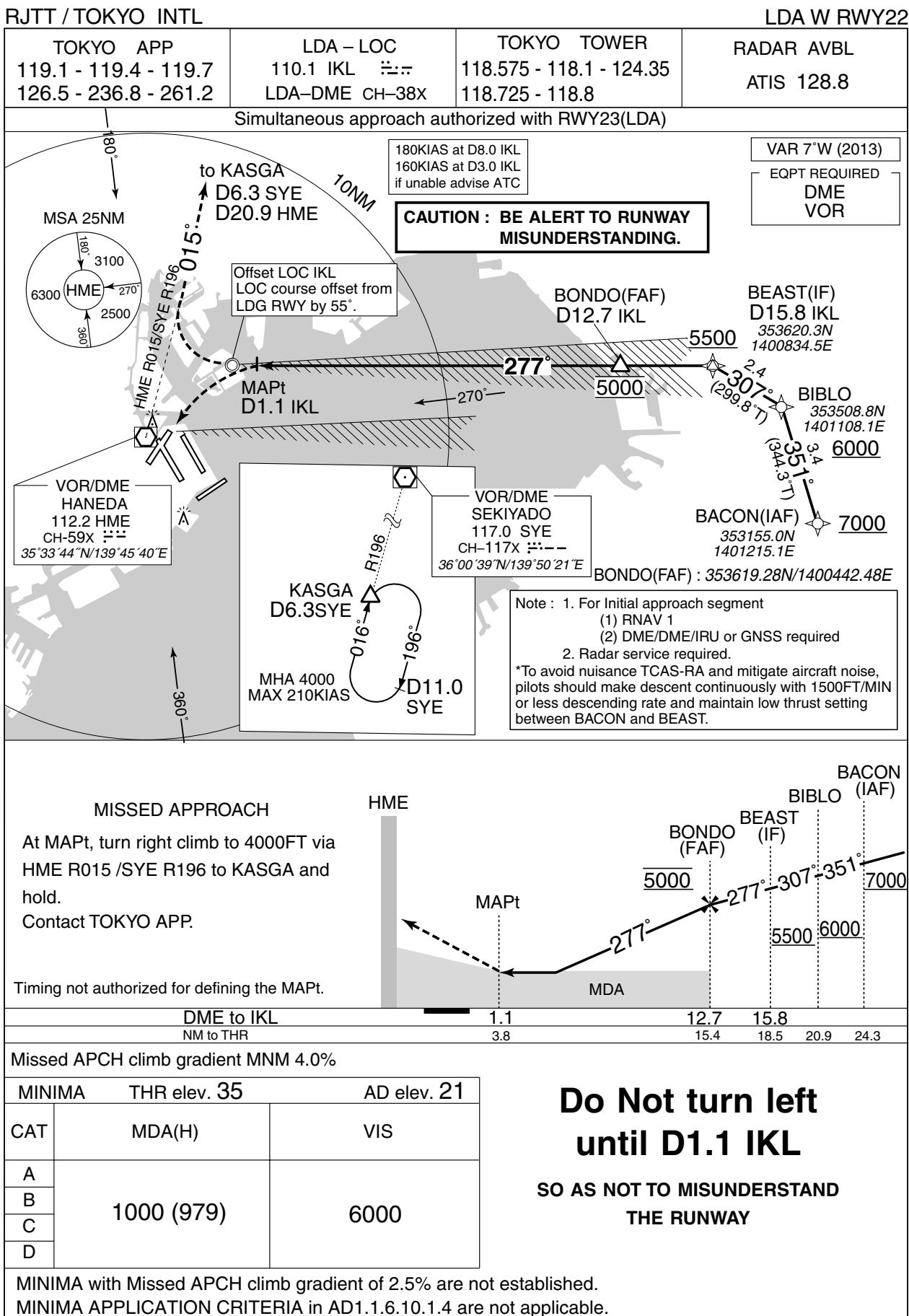
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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



INSTRUMENT APPROACH CHART

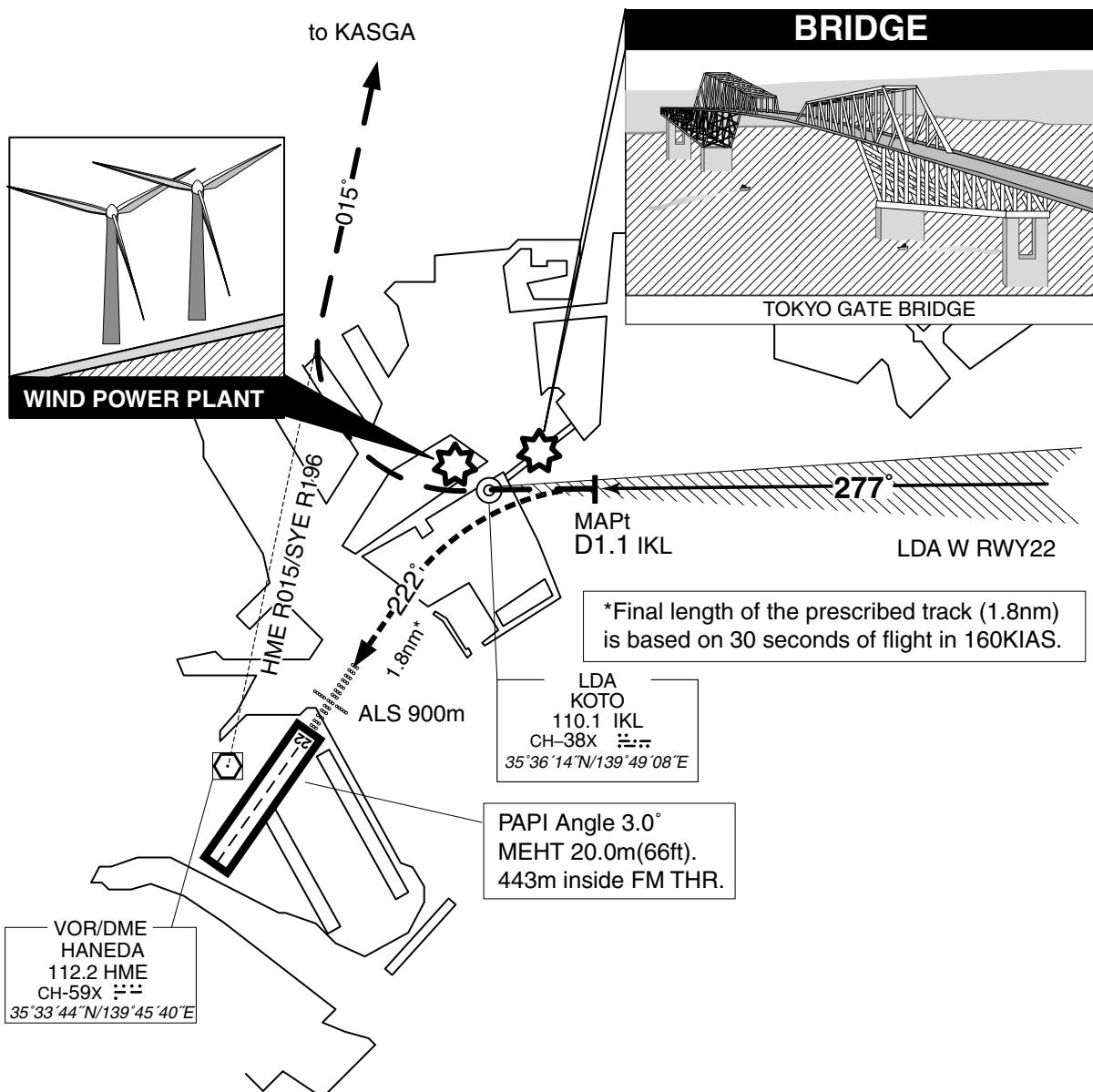
RJTT / TOKYO INTL

LDA W RWY22

Visual Prescribed Track for LDA W RWY22

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

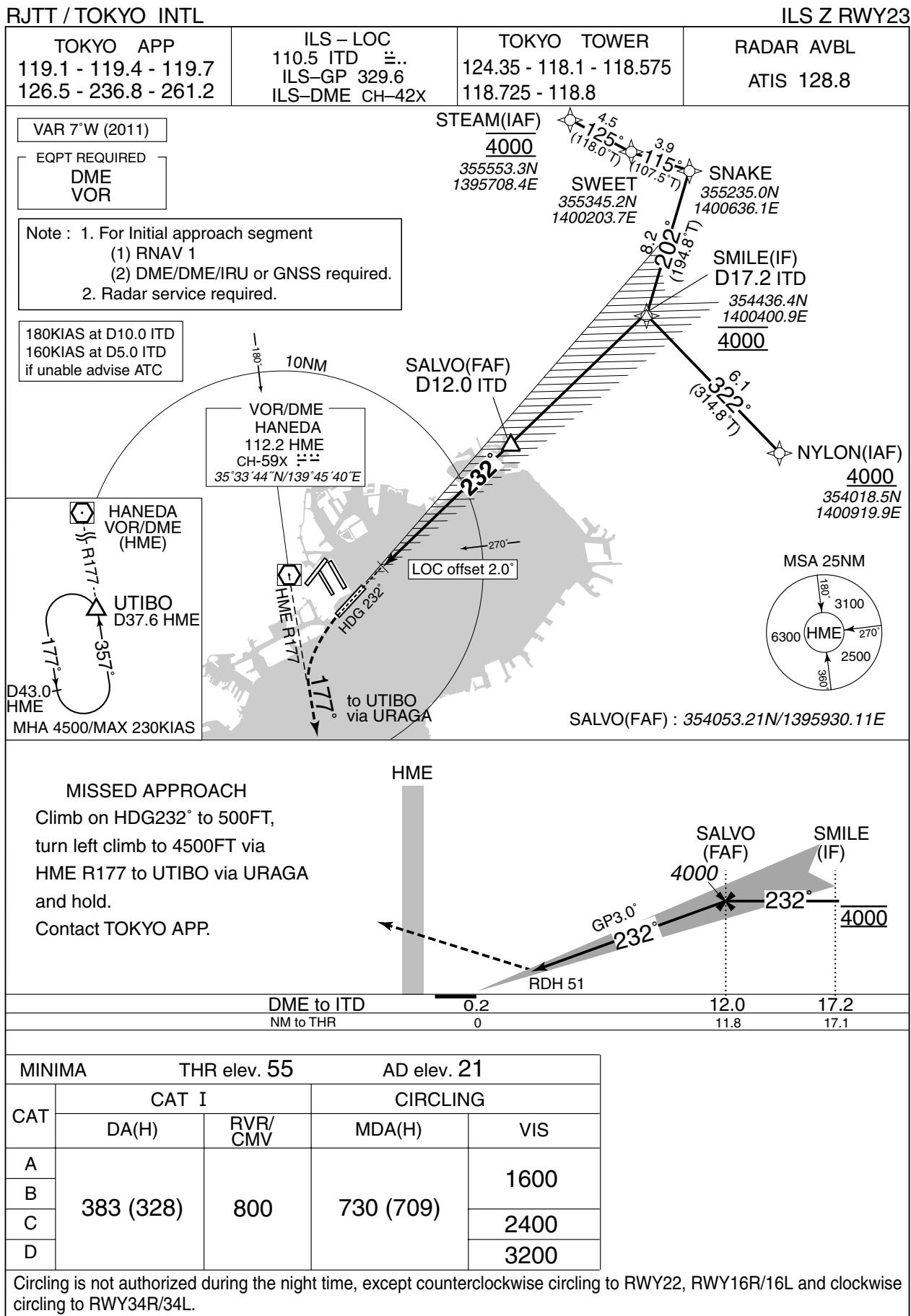
Note : Remain on the LDA until passing MAPt so as not to penetrate the NTZ, and to avoid the RWY23 traffic.



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

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

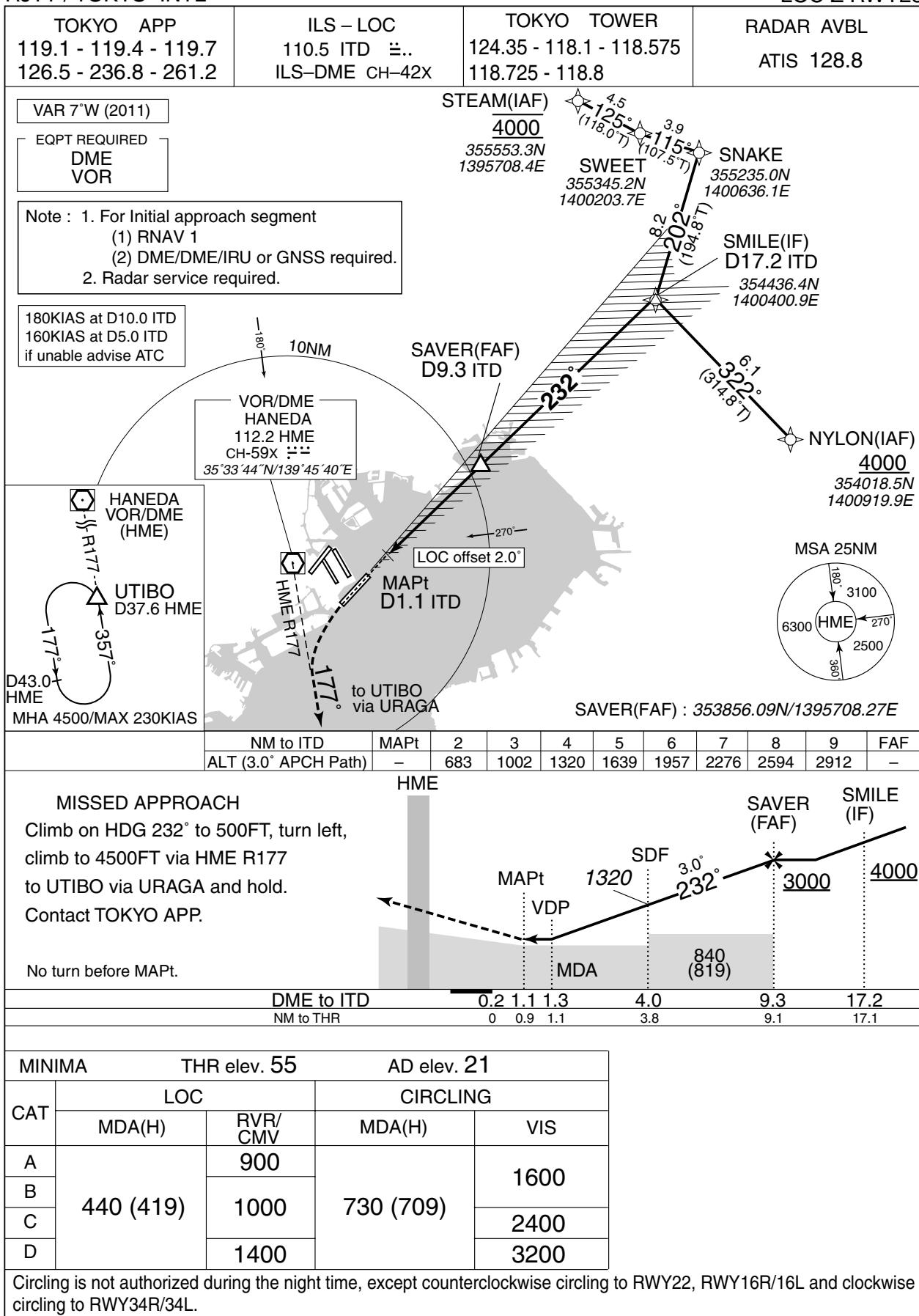
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

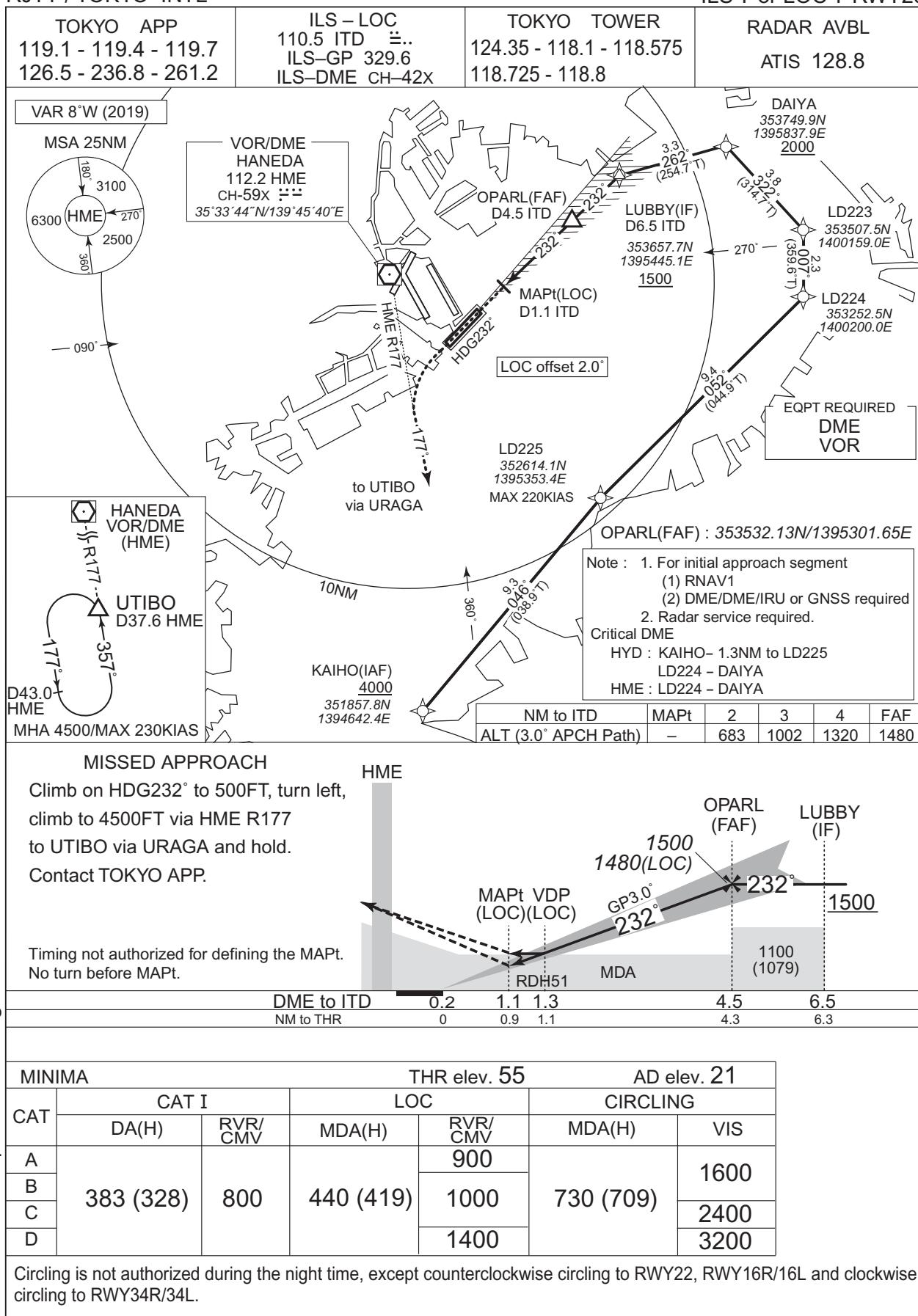
LOC Z RWY23



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

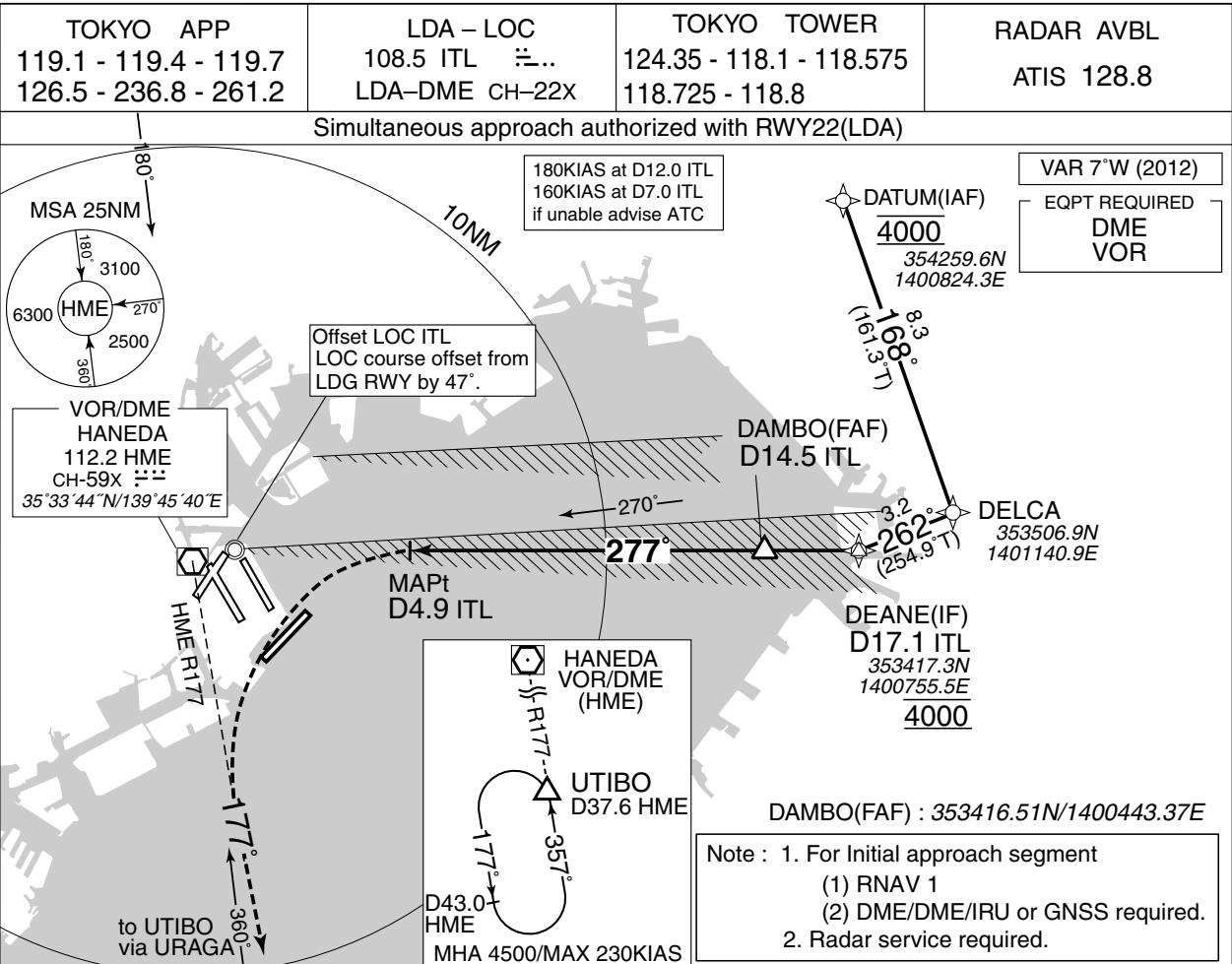
ILS Y or LOC Y RWY23



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

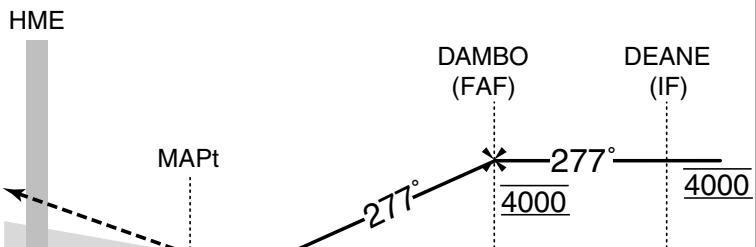
LDA Z RWY23



MISSED APPROACH

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

Timing not authorized for defining the MAPt.



| 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.

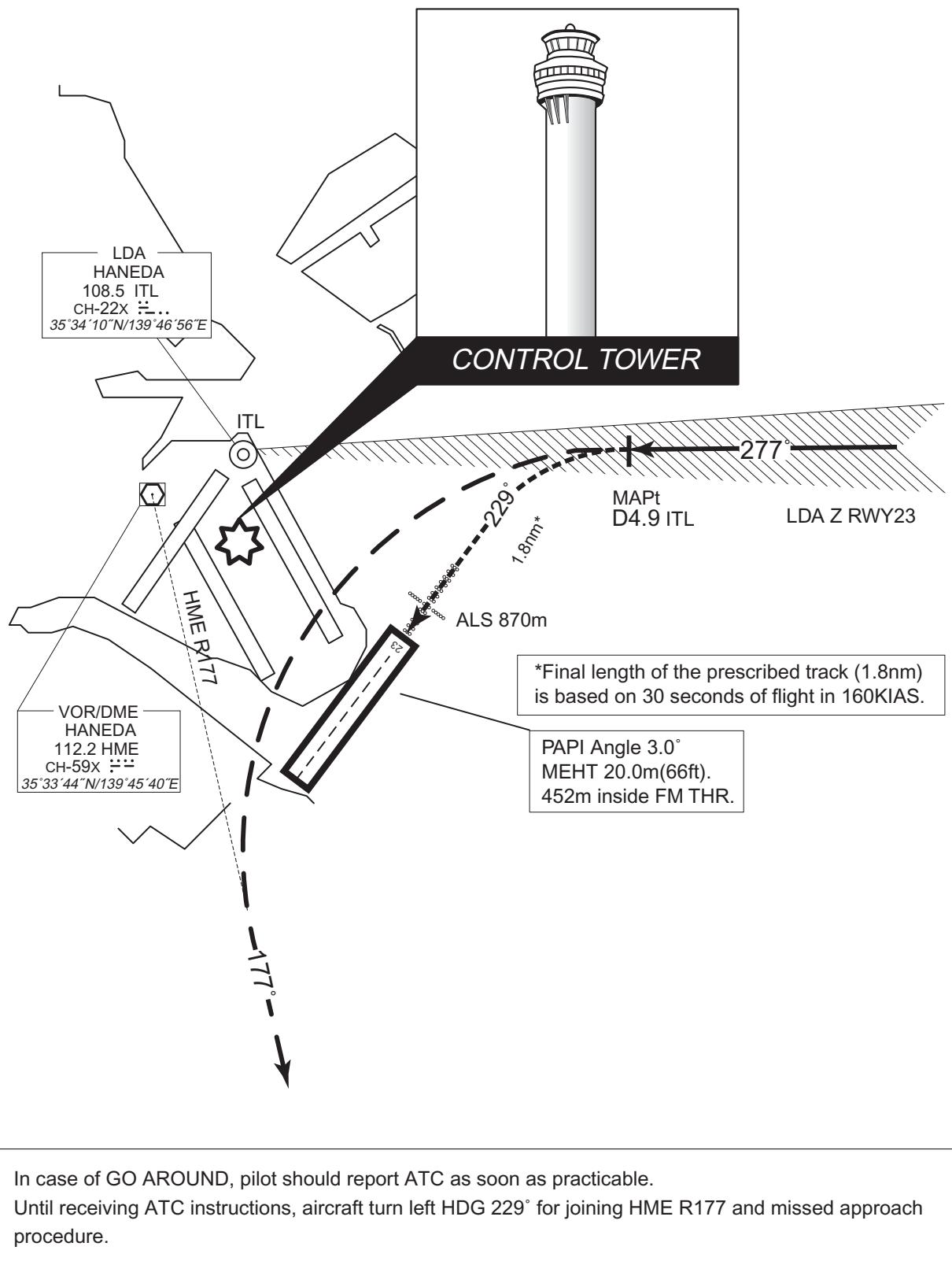
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Z RWY23

Visual Prescribed Track for LDA Z RWY23

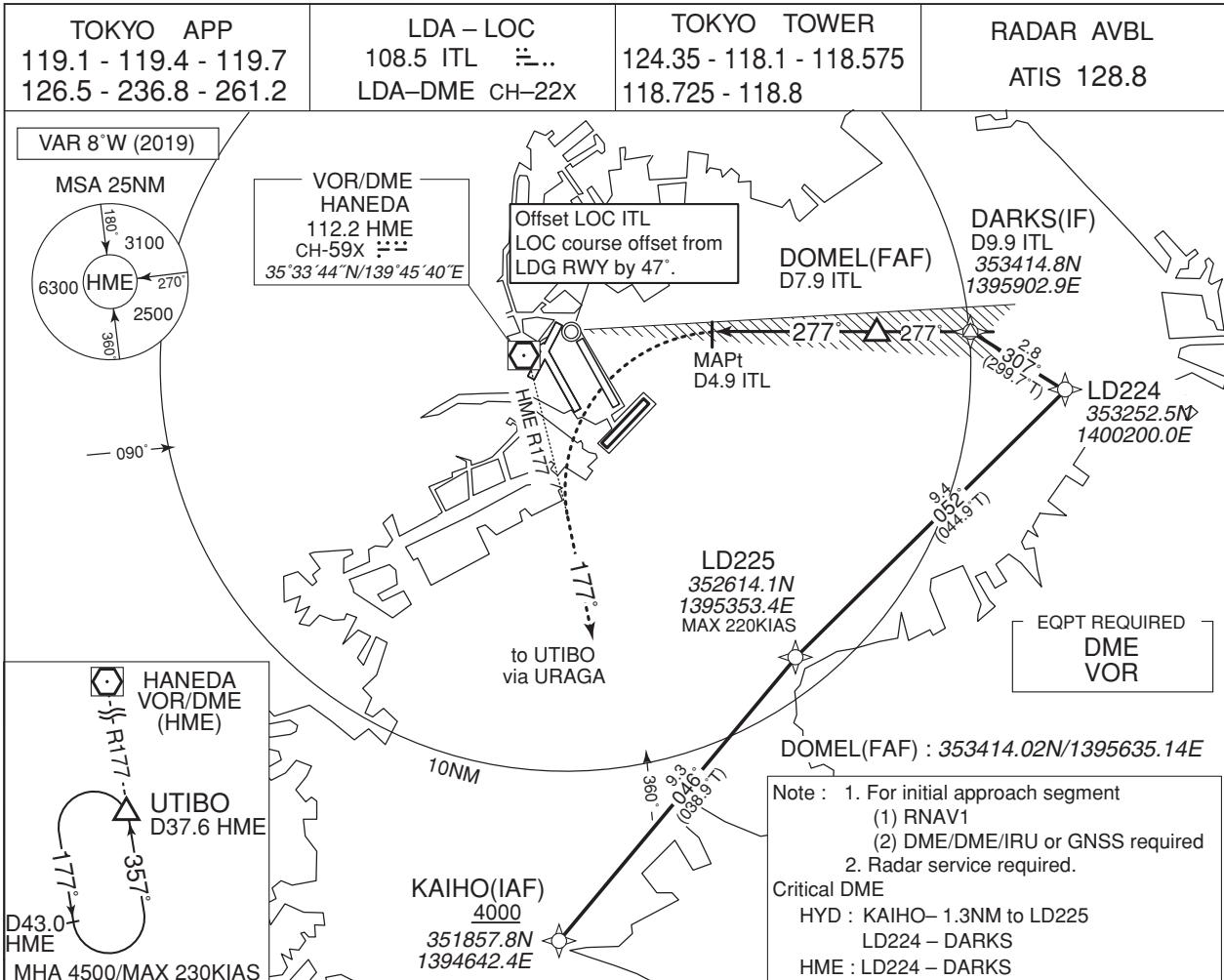
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23



MISSED APPROACH

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

HME

DOMEL (FAF) DARKS (IF)

Timing not authorized for defining the MAPt.

MAPt

MDA

4.9

7.9

9.9

277° 1800

DME to ITL
NM to THR

3.4

6.4

8.4

MINIMA THR elev. 55 AD elev. 21

| CAT | MDA(H) | VIS |
|-----|------------|------|
| A | | |
| B | | |
| C | | |
| D | 1000 (979) | 6000 |

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

CHANGE : Update

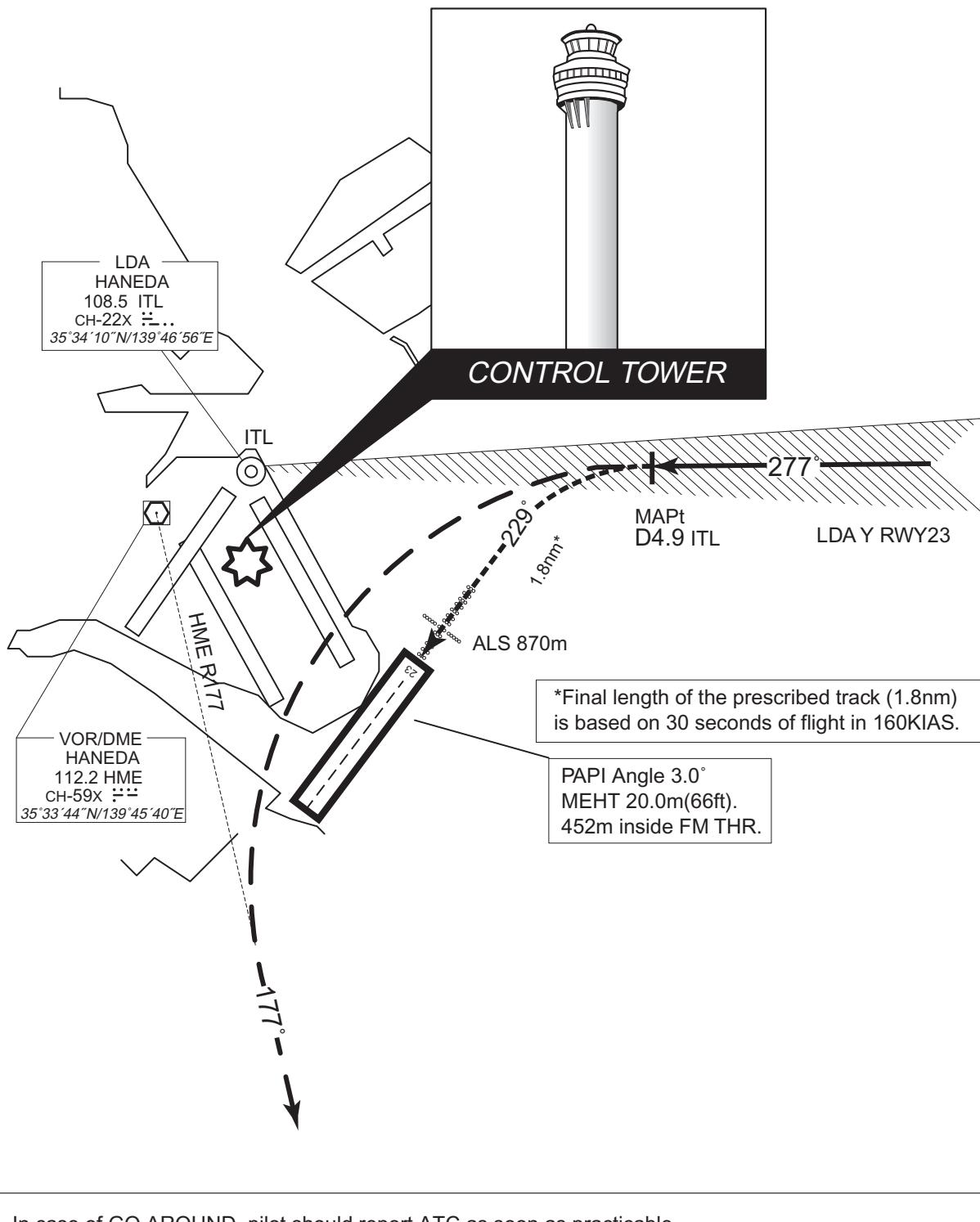
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA Y RWY23

Visual Prescribed Track for LDA Y RWY23

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



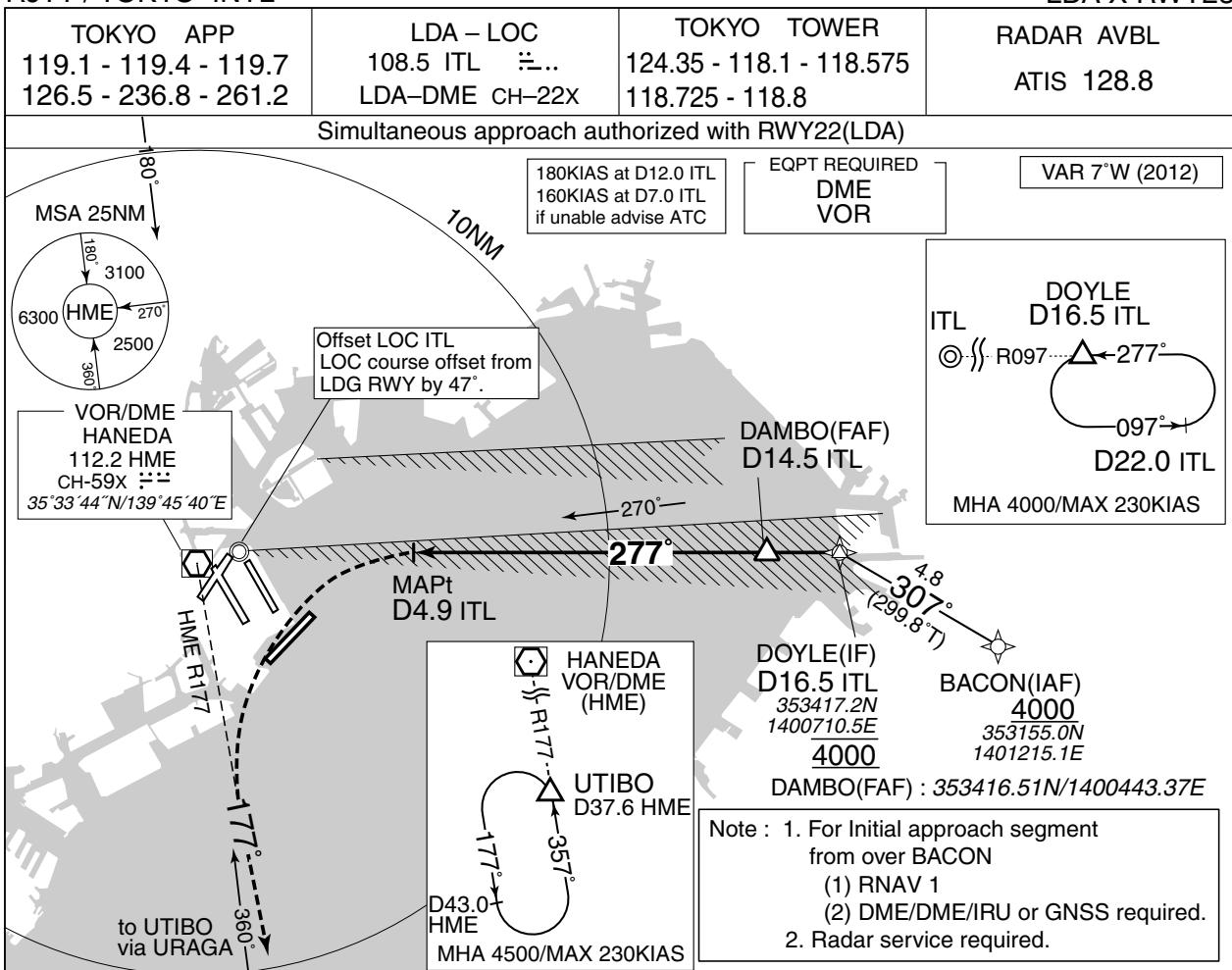
In case of GO AROUND, pilot should report ATC as soon as practicable.

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

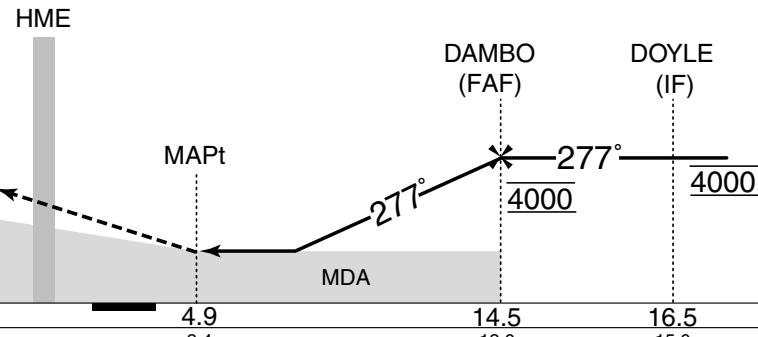
LDA X RWY23



MISSED APPROACH

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

Timing not authorized for defining the MAPt.



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

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

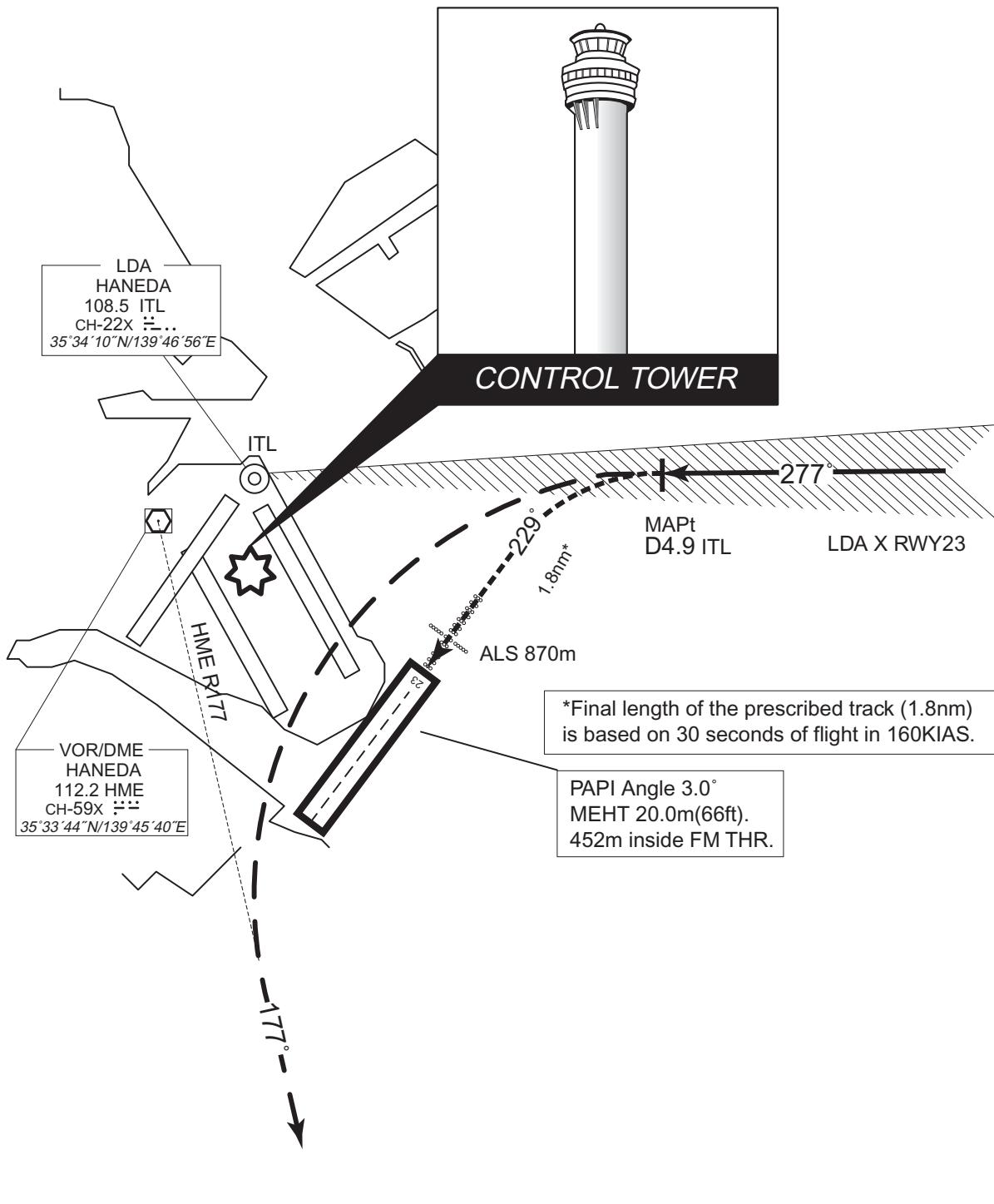
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA X RWY23

Visual Prescribed Track for LDA X RWY23

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



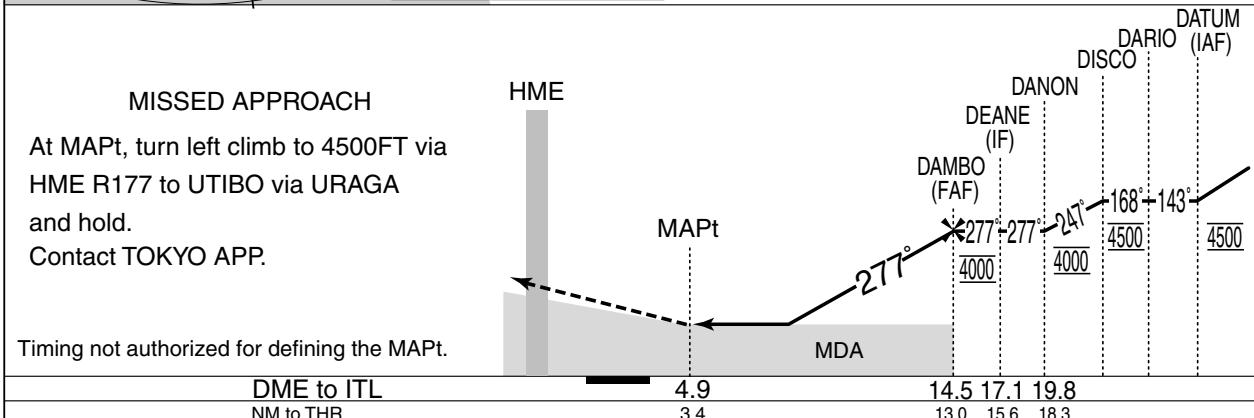
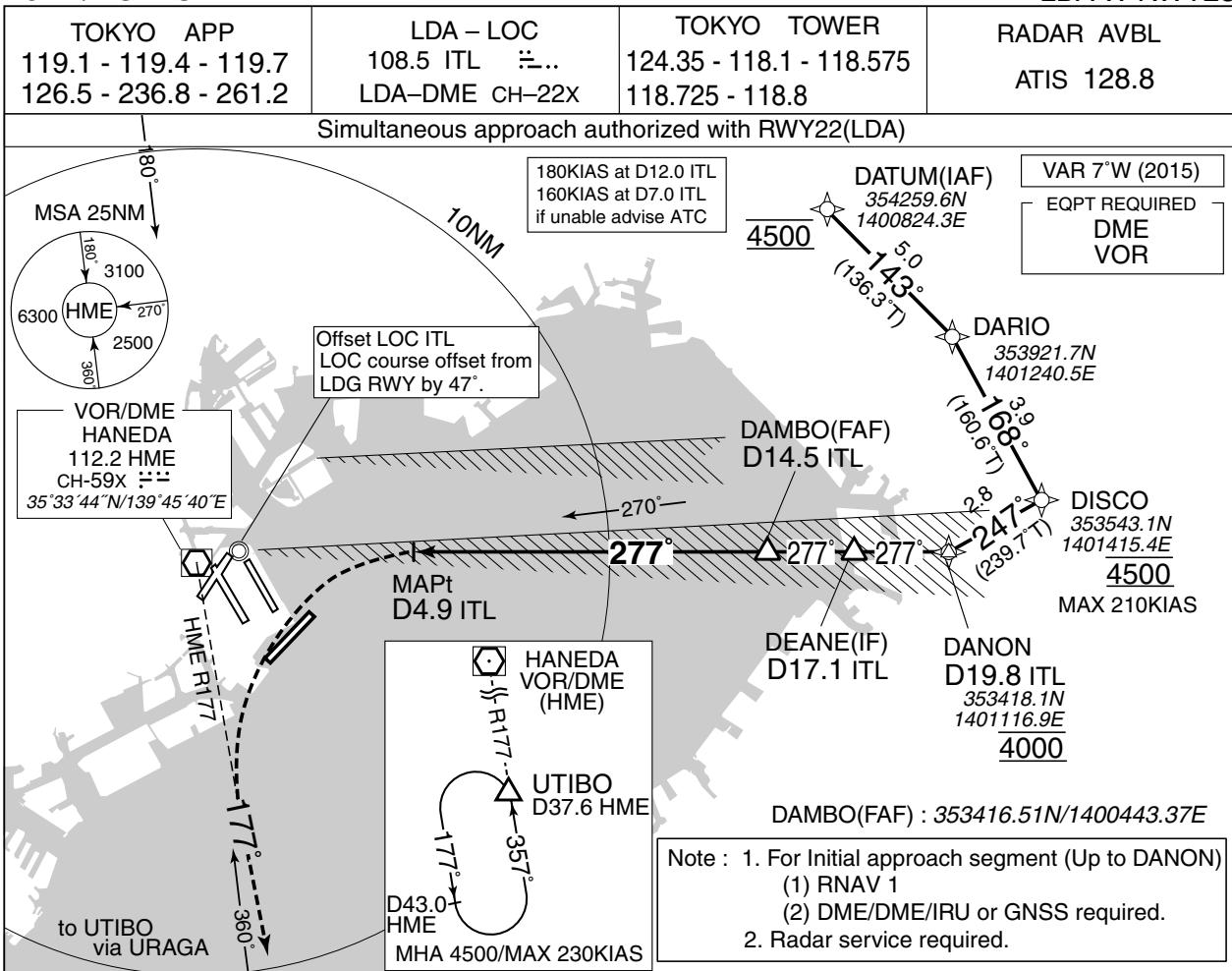
CHANGE : Correction of misdescription (ITL COORD).

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

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23



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

MINIMA APPLICATION CRITERIA in AD1.1.6.10.1.4 are not applicable.

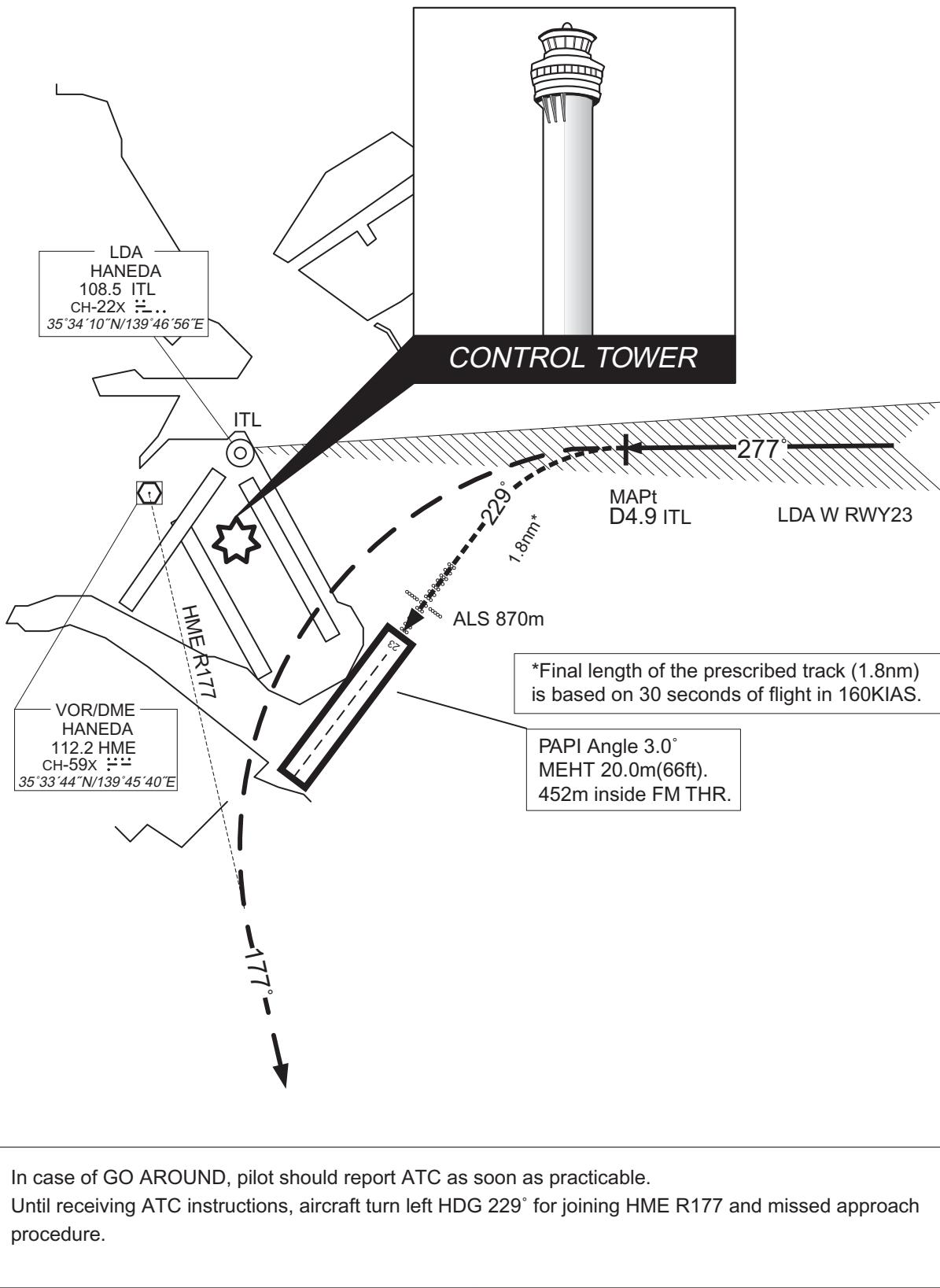
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

LDA W RWY23

Visual Prescribed Track for LDA W RWY23

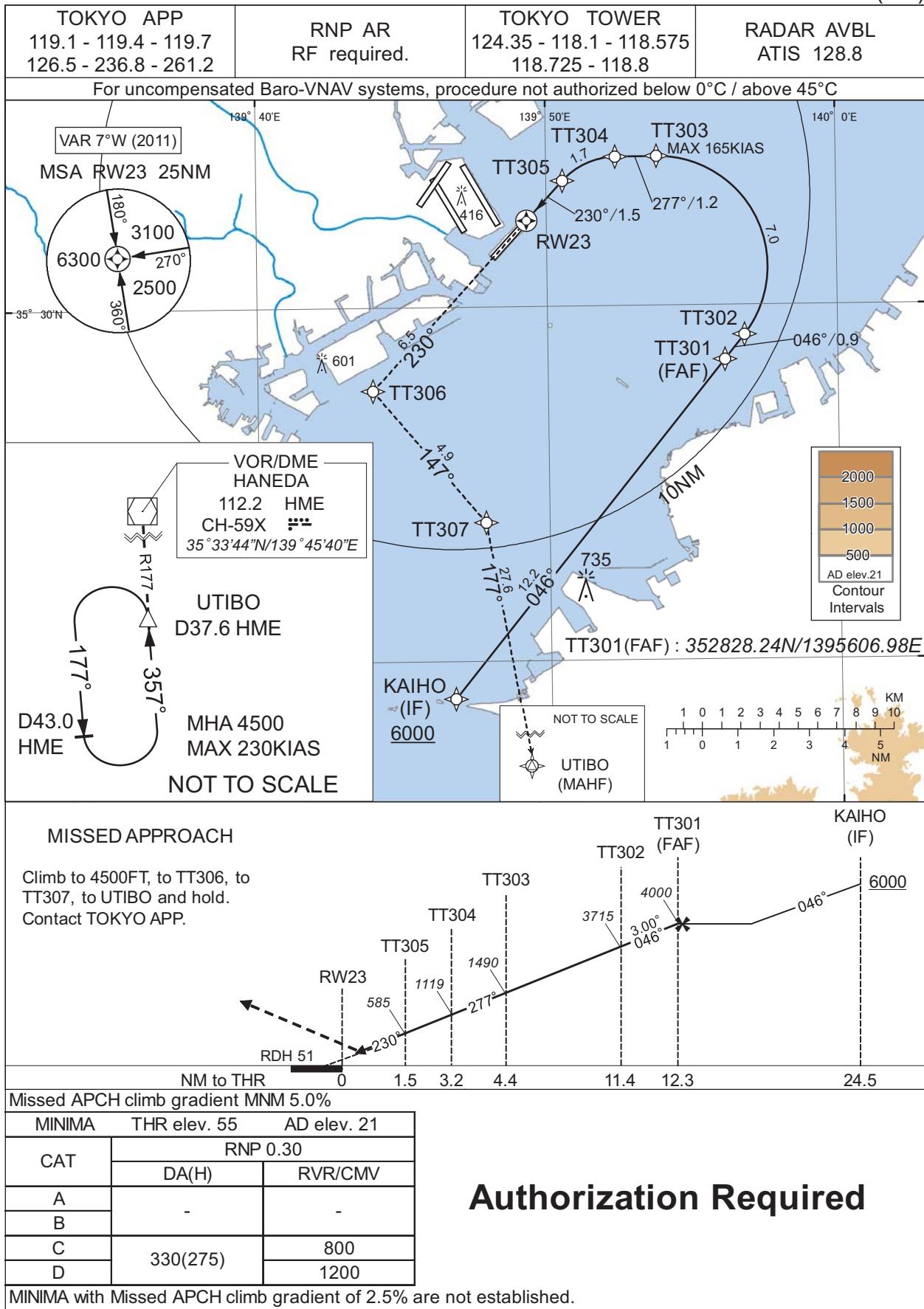
Visual manoeuvre with Prescribed Track (VPT) : VPT stands for visual maneuvering after the MAPt using prescribed track.



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY23(AR)



INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

RNP RWY23(AR)

Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|---------------------------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001 | IF | KAIHO | - | - | -7.2 | - | - | +6000 | - | - | - |
| 002 | TF | TT301 | - | 046 (038.8) | -7.2 | 12.2 | - | 4000 | - | - | 1.0 |
| 003 | TF | TT302 | - | 046 (038.8) | -7.2 | 0.9 | - | 3715 | - | -3.00 | 0.3 |
| 004 | RF Center: TTRF1 r=3.10NM | TT303 | - | - | -7.2 | 7.0 | L | 1490 | -165 | -3.00 | 0.3 |
| 005 | TF | TT304 | - | 277 (269.6) | -7.2 | 1.2 | - | 1119 | - | -3.00 | 0.3 |
| 006 | RF Center: TTRF2 r=2.00NM | TT305 | - | - | -7.2 | 1.7 | L | 585 | - | -3.00 | 0.3 |
| 007 | TF | RW23 | Y | 230 (222.5) | -7.2 | 1.5 | - | 106 | - | -3.00/51 | 0.3 |
| 008 | TF | TT306 | - | 230 (222.5) | -7.2 | 6.5 | - | - | - | - | 1.0 |
| 009 | TF | TT307 | - | 147 (139.9) | -7.2 | 4.9 | - | - | - | - | 1.0 |
| 010 | TF | UTIBO | - | 177 (169.9) | -7.2 | 27.6 | - | 4500 | - | - | 1.0 |

Waypoint Coordinates

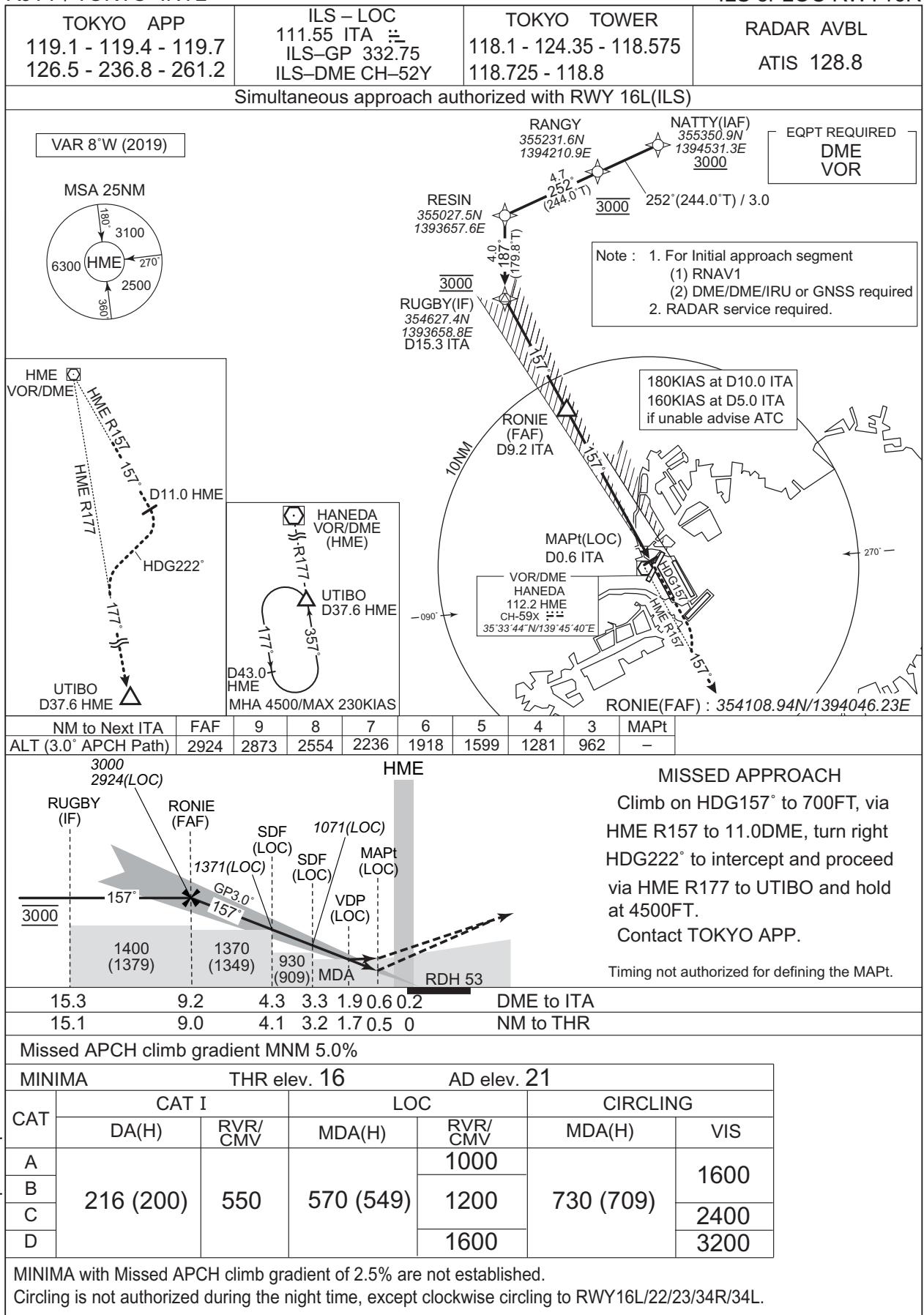
| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| KAIHO | 351857.83N / 1394642.43E | TTRF1 | 353106.44N / 1395349.88E |
| TT301 | 352828.24N / 1395606.98E | TTRF2 |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

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

ILS or LOC RWY16R



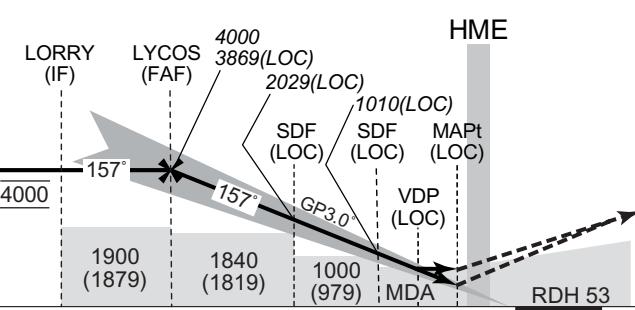
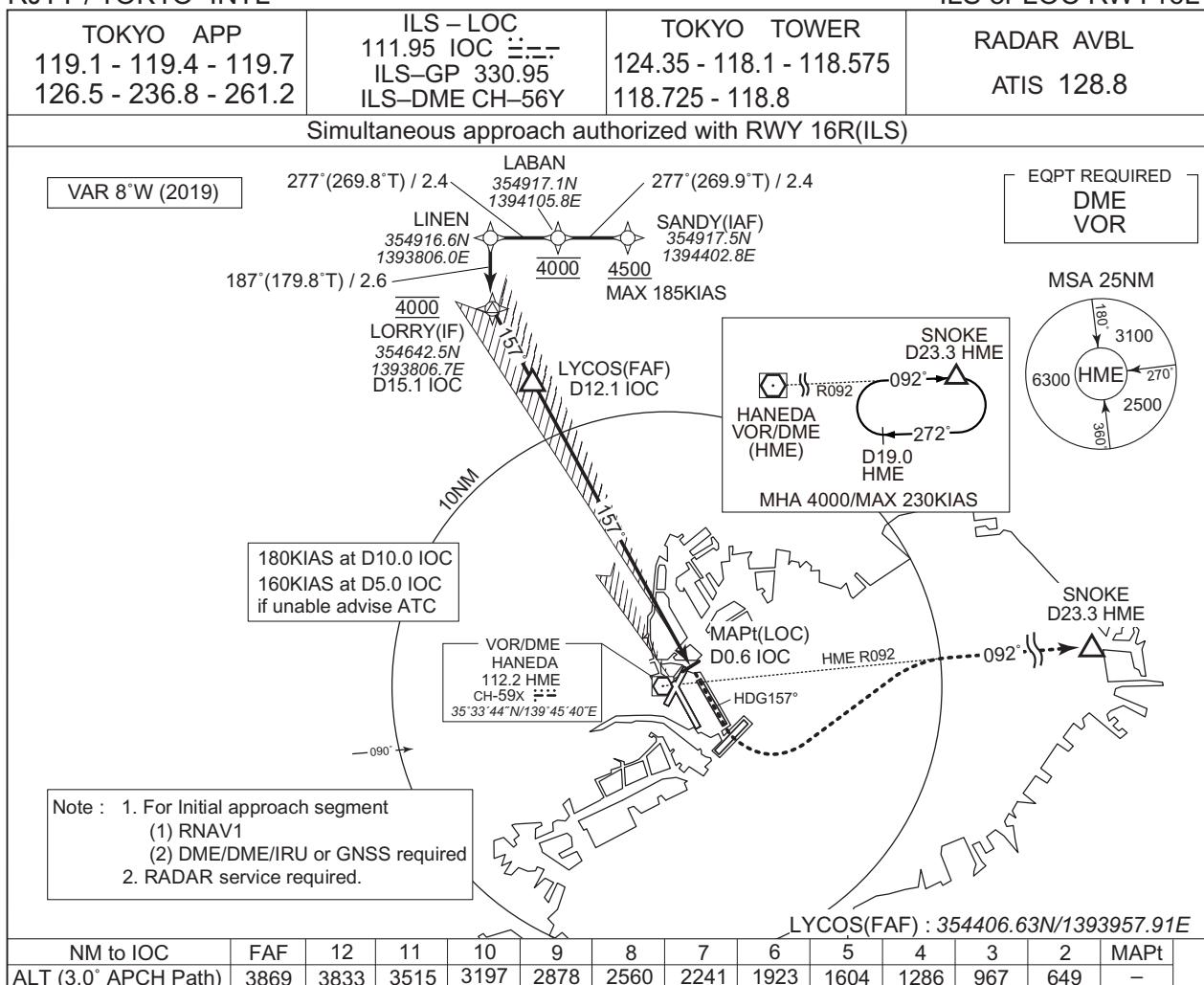
INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL

| TOKYO APP 119.1 - 119.4 - 119.7 126.5 - 236.8 - 261.2 | RNP APCH | TOKYO TOWER 118.1 - 124.35 - 118.575 118.725 - 118.8 | RADAR AVBL ATIS 128.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|--|--------------------------|----------------|-----------|------|------|------|----------|-----|-------|---------|--------|---------|--------|-----------------------|------|------|------|------|------|------|------|------|-----------|------|-----------|------|-----------|------|---|--|--|--|------|---|------|--|------|--|------|
| Simultaneous approach authorized with RWY 16L(RNP) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baro-VNAV not authorized below -10°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>VAR 8°W (2021)</p> <p>MSA 25NM</p> <p>6300 ARP</p> <p>See AIP RJTT AD 2.20.1.8 PAPI Operation during RNP RWY16R</p> | | <p>ARP : 353312N/1394652E</p> <p>170KIAS at 10.2NM from THR if unable advise ATC</p> <p>Using NAVAID</p> <p>HANEDA VOR/DME (HME)</p> <p>UTIBO D37.6 HME</p> <p>D43.0 HME MHA 4500/MAX 230KIAS</p> <p>VOR/DME HANEDA 112.2 HME CH-59X</p> <p>35°33'44"N/139°45'40"E</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>NM to Next FIX</th> <th>FAF</th> <th>10</th> <th>9</th> <th>8</th> <th>7</th> <th>6</th> <th>5</th> <th>4</th> <th>3</th> <th>2</th> <th>MAPt</th> </tr> </thead> <tbody> <tr> <td>ALT (3.45° APCH Path)</td> <td>3800</td> <td>3734</td> <td>3367</td> <td>3001</td> <td>2635</td> <td>2268</td> <td>1902</td> <td>1536</td> <td>1169</td> <td>803</td> <td>-</td> </tr> </tbody> </table> | | | | NM to Next FIX | FAF | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | MAPt | ALT (3.45° APCH Path) | 3800 | 3734 | 3367 | 3001 | 2635 | 2268 | 1902 | 1536 | 1169 | 803 | - | | | | | | | | | | | | | | |
| NM to Next FIX | FAF | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | MAPt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALT (3.45° APCH Path) | 3800 | 3734 | 3367 | 3001 | 2635 | 2268 | 1902 | 1536 | 1169 | 803 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>MISSSED APPROACH</p> <p>Direct to T6R12, to T6R76, to UTIBO and hold at 4500FT.</p> <p>(For using VOR/DME) Climb to 4500FT via HME R157 to 11.0DME, turn right HDG 222° to intercept and proceed via HME R177 to UTIBO and hold.</p> <p>Contact TOKYO APP. PAPI and descent angles not coincident. (PAPI Angle 3.25°)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>13.6 10.2 6.8 3.3 0 NM to THR</p> <p>Missed APCH climb gradient MNM 5.0%</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>MINIMA THR elev. 16 AD elev. 21</p> <table border="1"> <thead> <tr> <th rowspan="2">CAT</th> <th colspan="2">LNAV/VNAV</th> <th colspan="2">LNAV</th> <th colspan="2">CIRCLING</th> </tr> <tr> <th>DA(H)</th> <th>RVR/CMV</th> <th>MDA(H)</th> <th>RVR/CMV</th> <th>MDA(H)</th> <th>VIS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td>1000</td> <td></td> <td>1000</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td rowspan="3">630 (614)</td> <td>1200</td> <td rowspan="3">630 (609)</td> <td>1200</td> <td rowspan="3">730 (709)</td> <td>1600</td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td>2400</td> </tr> <tr> <td>D</td> <td>1600</td> <td></td> <td>1600</td> <td></td> <td>3200</td> </tr> </tbody> </table> | | | | CAT | LNAV/VNAV | | LNAV | | CIRCLING | | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) | VIS | A | | 1000 | | 1000 | | | B | 630 (614) | 1200 | 630 (609) | 1200 | 730 (709) | 1600 | C | | | | 2400 | D | 1600 | | 1600 | | 3200 |
| CAT | LNAV/VNAV | | LNAV | | CIRCLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DA(H) | RVR/CMV | MDA(H) | RVR/CMV | MDA(H) | VIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | | 1000 | | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 630 (614) | 1200 | 630 (609) | 1200 | 730 (709) | 1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | | | | | | | 2400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | | 1600 | | | | 1600 | | 3200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>MINIMA with Missed APCH climb gradient of 2.5% are not established.</p> <p>Circling is not authorized during the night time, except clockwise circling to RWY16L/22/23/34R/34L.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INSTRUMENT APPROACH CHART

RJTT / TOKYO INTL



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.

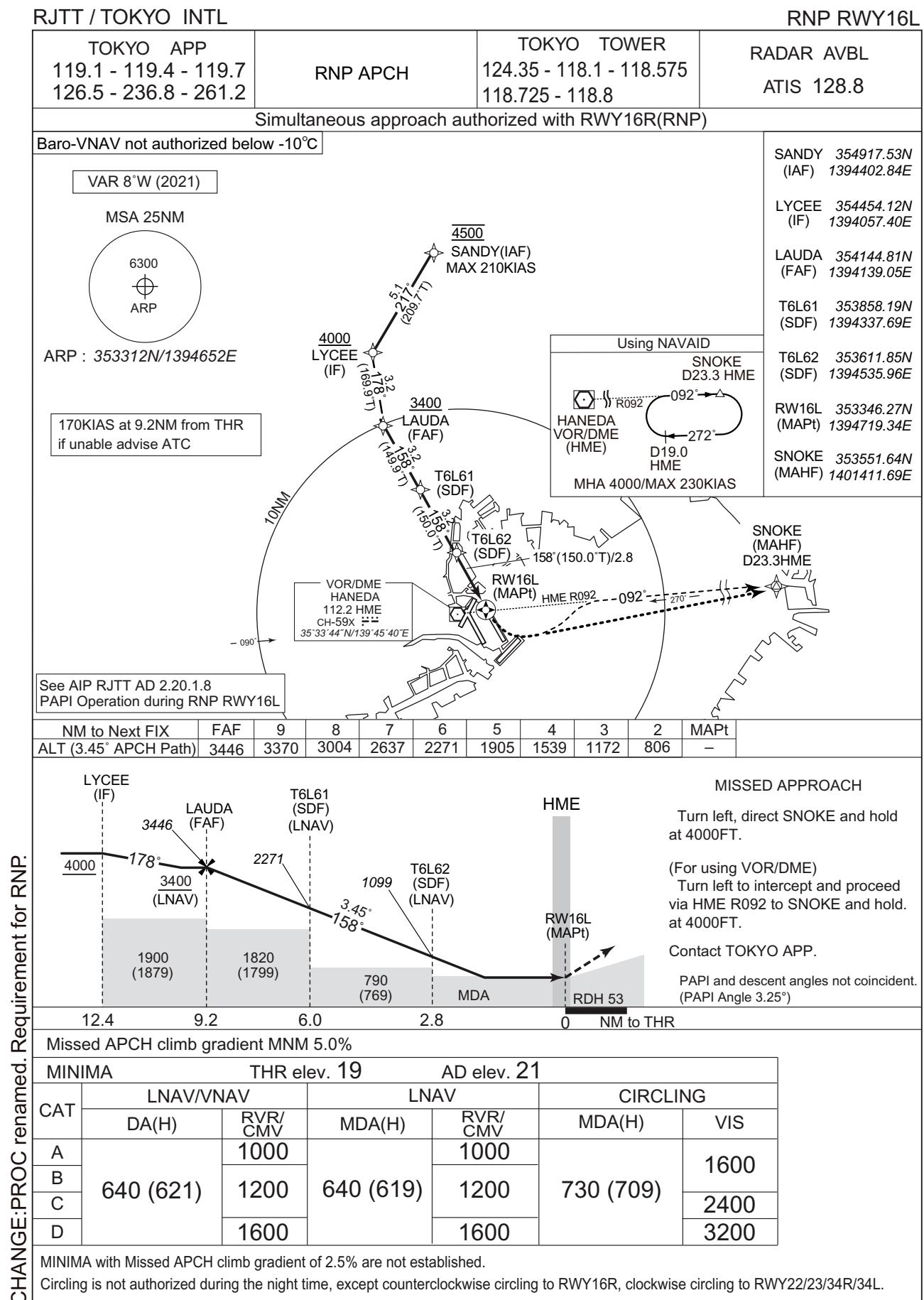
CHANGE : Description of procedure altitude at FAF.

| 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 | 219 (200) | 550 | 530 (509) | 1200 | 730 (709) | 1600 |
| C | | | | | | 2400 |
| D | | | | 1600 | | 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.

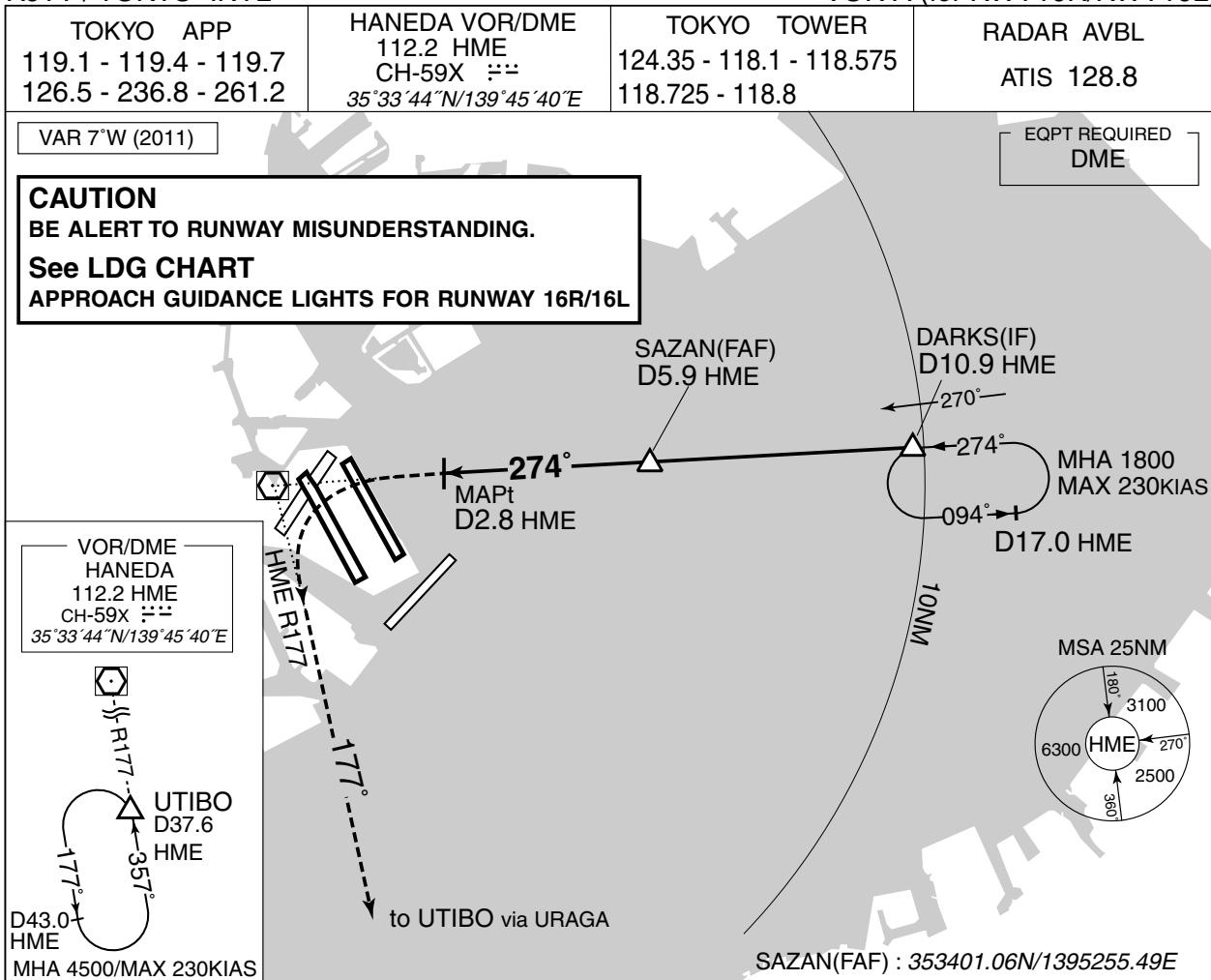
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

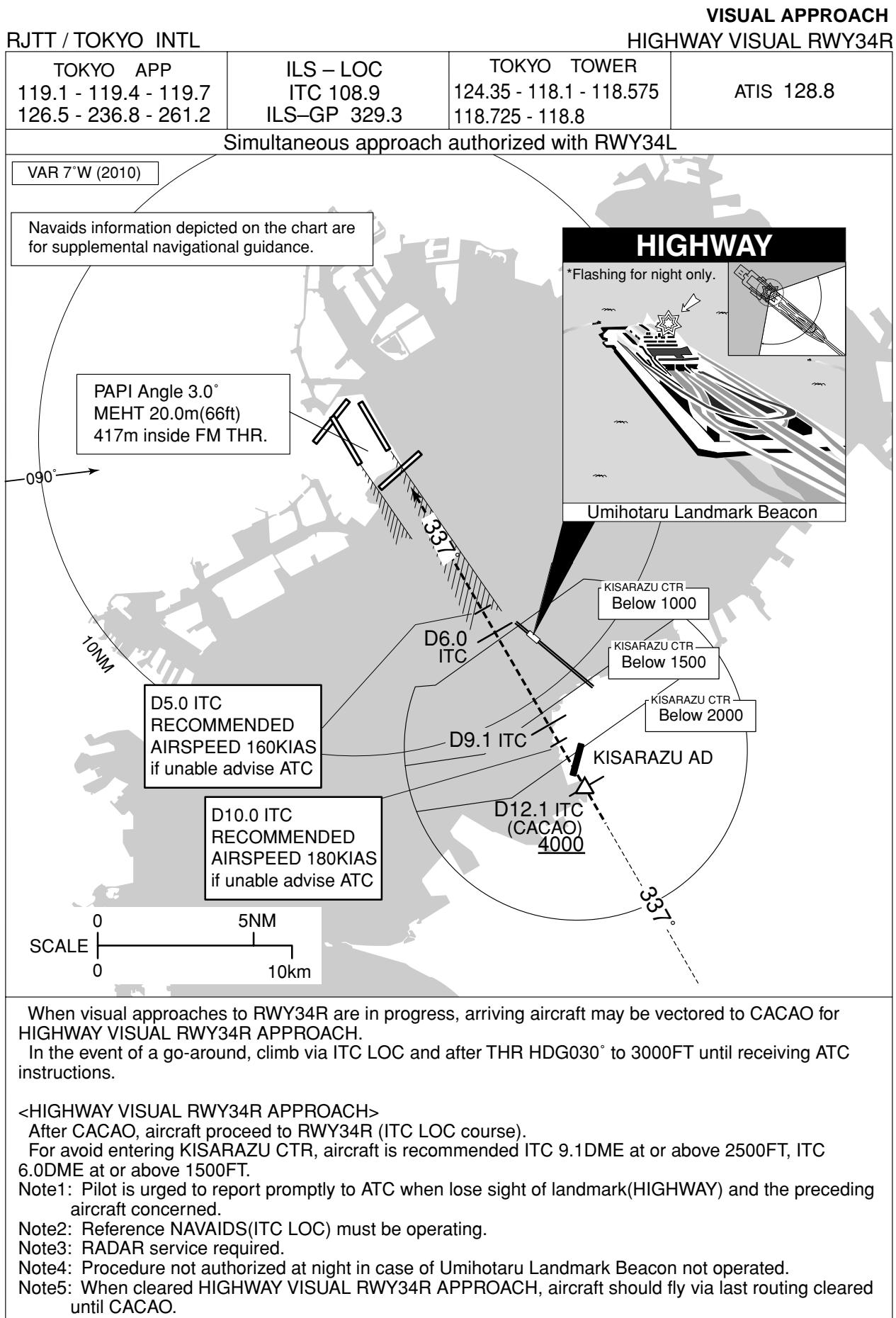
RJTT / TOKYO INTL

VOR A (for RWY16R/RWY16L)



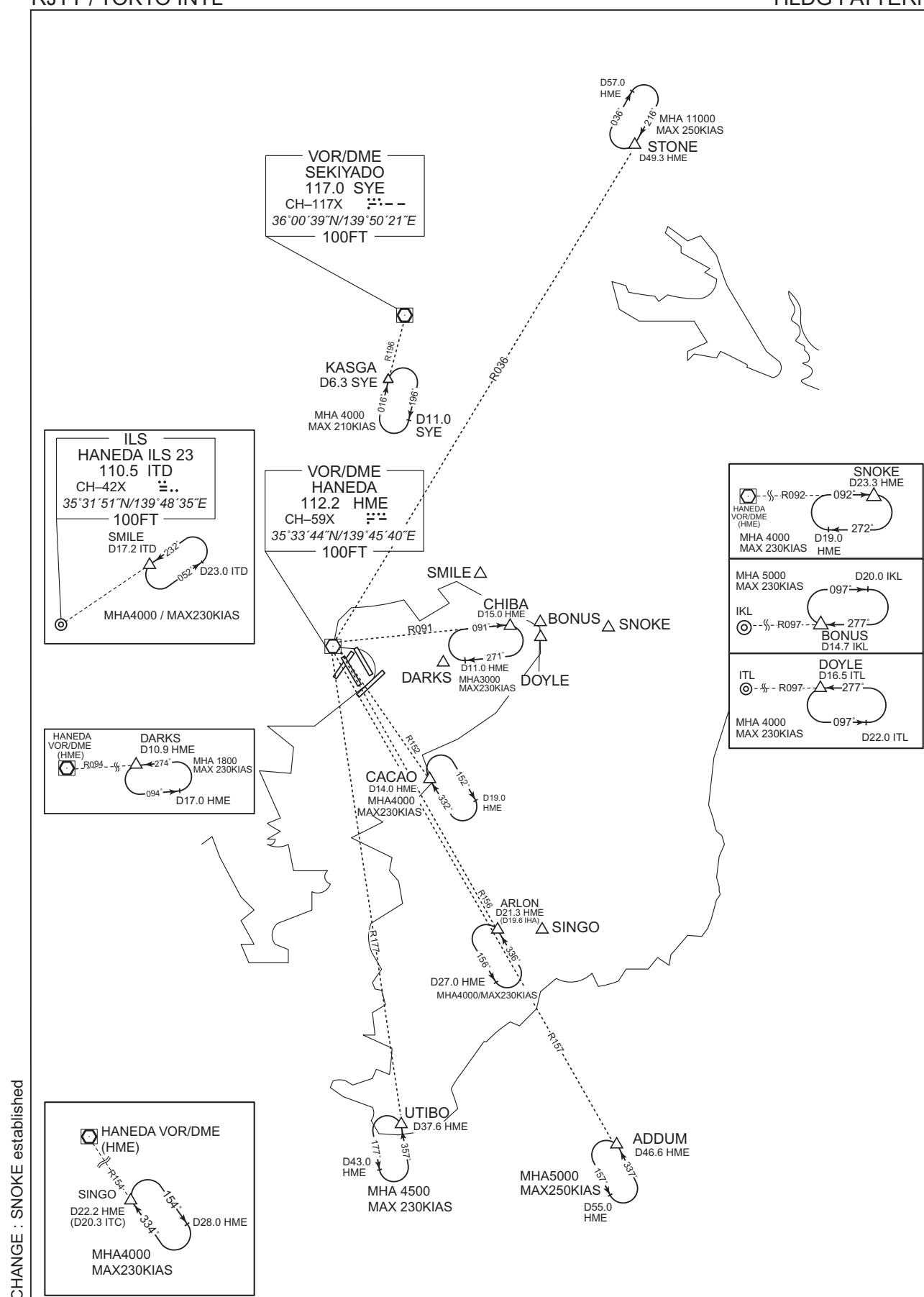
| MINIMA | | AD elev. 21 | |
|--------|-----------|-------------|--|
| CAT | CIRCLING | | |
| | MDA(H) | VIS | |
| A | | 1600 | |
| B | 760 (739) | | |
| C | | 2400 | |
| D | | 3200 | |

INTENTIONALLY LEFT BLANK



RJTT / TOKYO INTL

HLDG PATTERN



RJTT / TOKYO INTL

RNAV HLDG PATTERN

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

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

| Path | Waypoint Identifier | Inbound Course °M(T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|----------------------|--------------------|----------------------------|------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | AKSEL | 039 (031.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ANZAC | 068 (060.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ARLON | 009 (001.6) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AVEEY | 314 (306.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BACON | 003 (355.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CIVIC | 345 (337.7) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COACH | 185 (177.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | COLOR | 197 (189.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CREAM | 291 (283.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DENNY | 167 (159.9) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DREAD | 191 (183.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | GODIN | 197 (189.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 8000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | KAIHO | 353 (345.5) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | MESSE | 246 (238.8) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 6000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NEURO | 290 (282.9) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NOVEL | 264 (256.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NUMAN | 360 (352.5) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | NYLON | 357 (350.0) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | POLIX | 310 (302.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 11000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SCREW | 203 (195.2) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SHAFT | 330 (322.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SNARE | 297 (289.1) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | SPINE | 348 (340.6) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | STING | 067 (059.6) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | WEDGE | 300 (292.4) | -7.5 | 1.0(-14000) 1.5(+14001) | — | L | 4000 | — | -230(-14000) -240(+14001) | RNAV1 |
| Hold | XAC | 098 (090.3) | -7.5 | 1.0(-14000) 1.5(+14001) | — | R | 5000 | — | -230(-14000) -240(+14001) | RNAV1 |

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

RNAV HLDG PATTERN

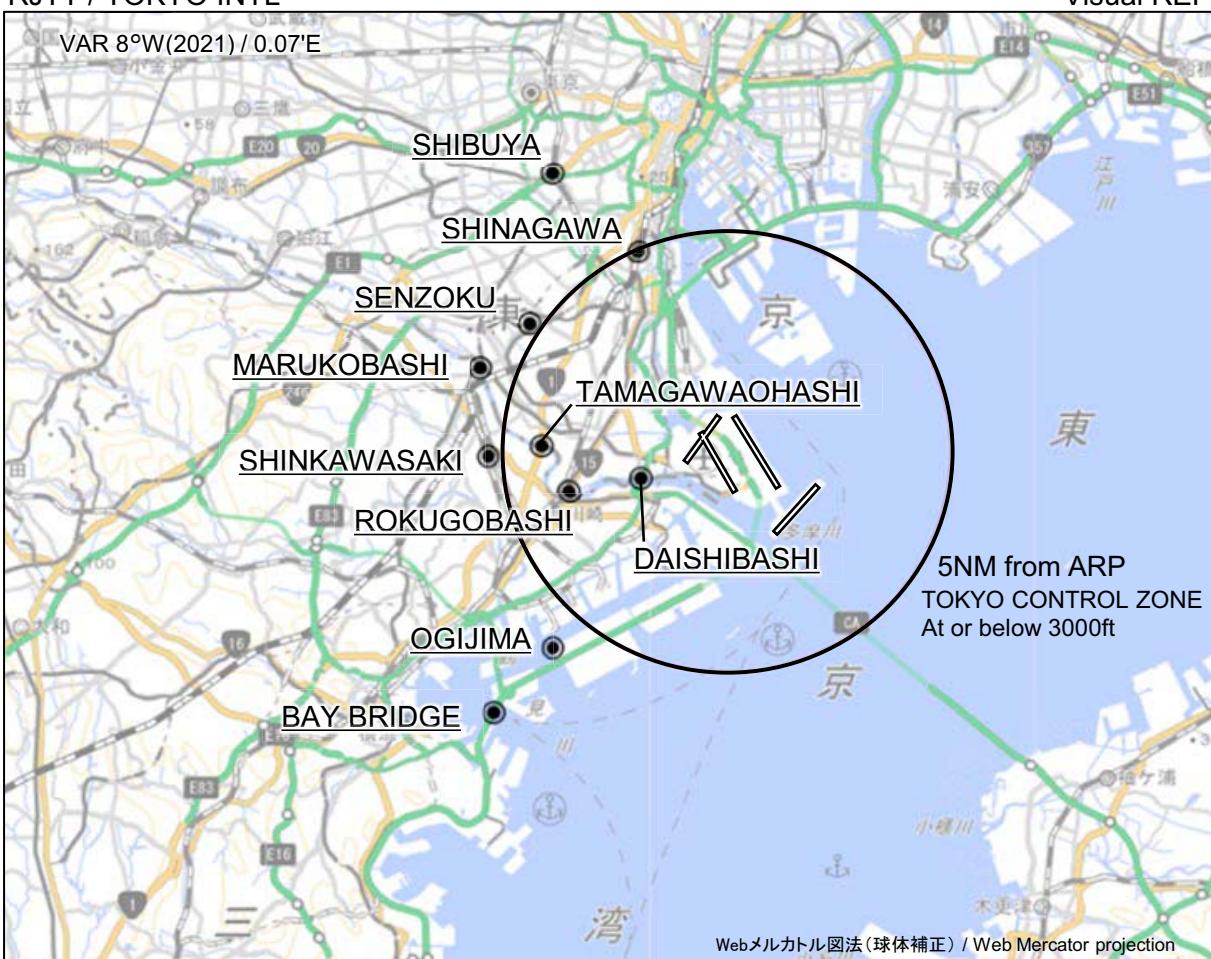
Waypoint Coordinates

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

CHANGE : ACORN abolished. ANZAC established.

RJTT / TOKYO INTL

Visual REP



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

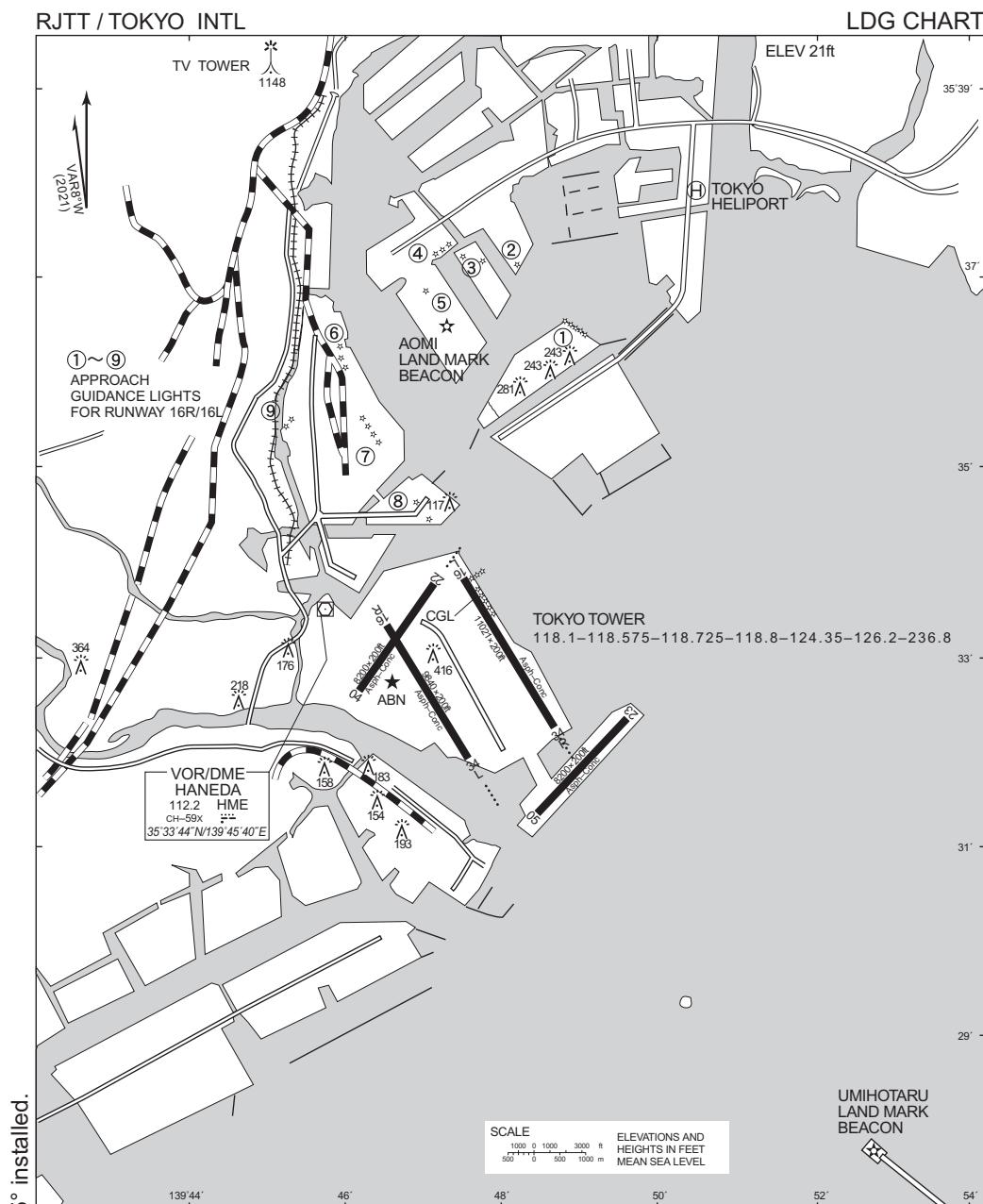
CHANGE : Map updated. BRG/DIST from ARP.

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

RJTT / TOKYO INTL

Minimum Vectoring Altitude CHART





CHANGE : PAPI RWY16L-3.25°, PAPI RWY16R-3.25° installed.

PAPI:

RWY16L-3.0°,MEHT 19.9m (65ft)

412m inside from THR.

RWY16L-3.25°,MEHT 19.9m(65ft)

378m inside from THR.

RWY34R-3.0°, MEHT 20.0m (66ft)

416m inside from THR.

RWY16R-3.0°, MEHT 19.9m (65ft)

432m inside from THR.

RWY16R-3.25°,MEHT 19.9m(65ft)

397m inside from THR.

RWY34L -3.0° MEHT 20.0m (66ft)

449m inside from THR.

RWY04-3.0°, MEHT 18.5m (61ft)

369m inside from THR.

RWY22–3.0°, MEHT 19.5m (63ft)

438m inside from THR.

RWY23-3.0°, MEHT 20.0m (66ft)

452m inside from THR.

RWY Grooving :

RWY16L/34R 3360m X 40m

RWY16R/34L 3000m X 40m

RWY04/22 2500m X 40m

RWY05/23 2500m X 40m

Attachment-1

Local flying restriction of Tokyo INTL AP

Unless otherwise authorized by ATC.

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

