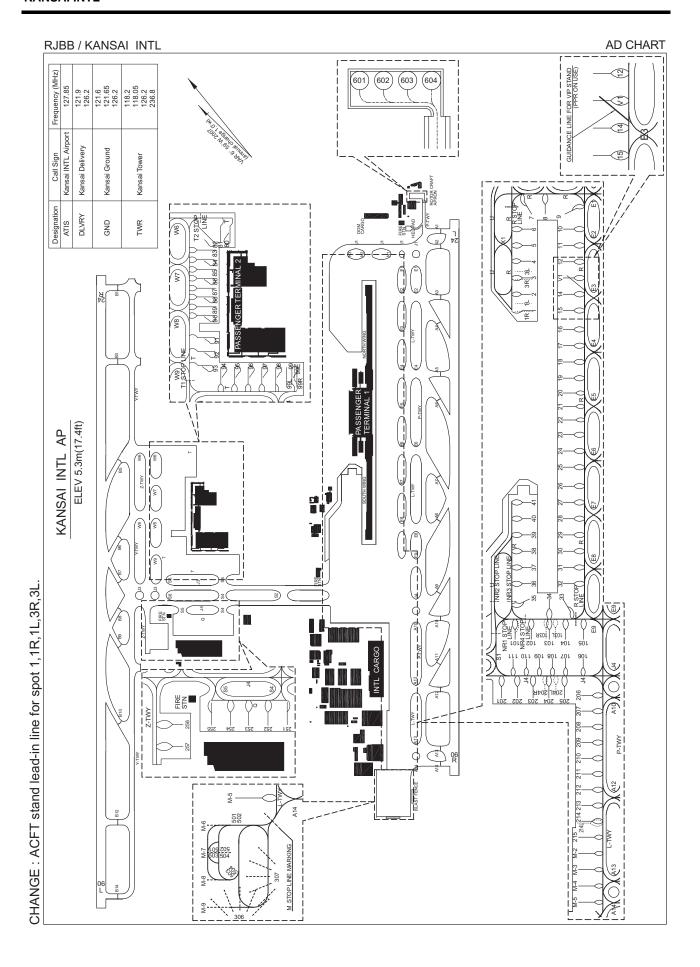
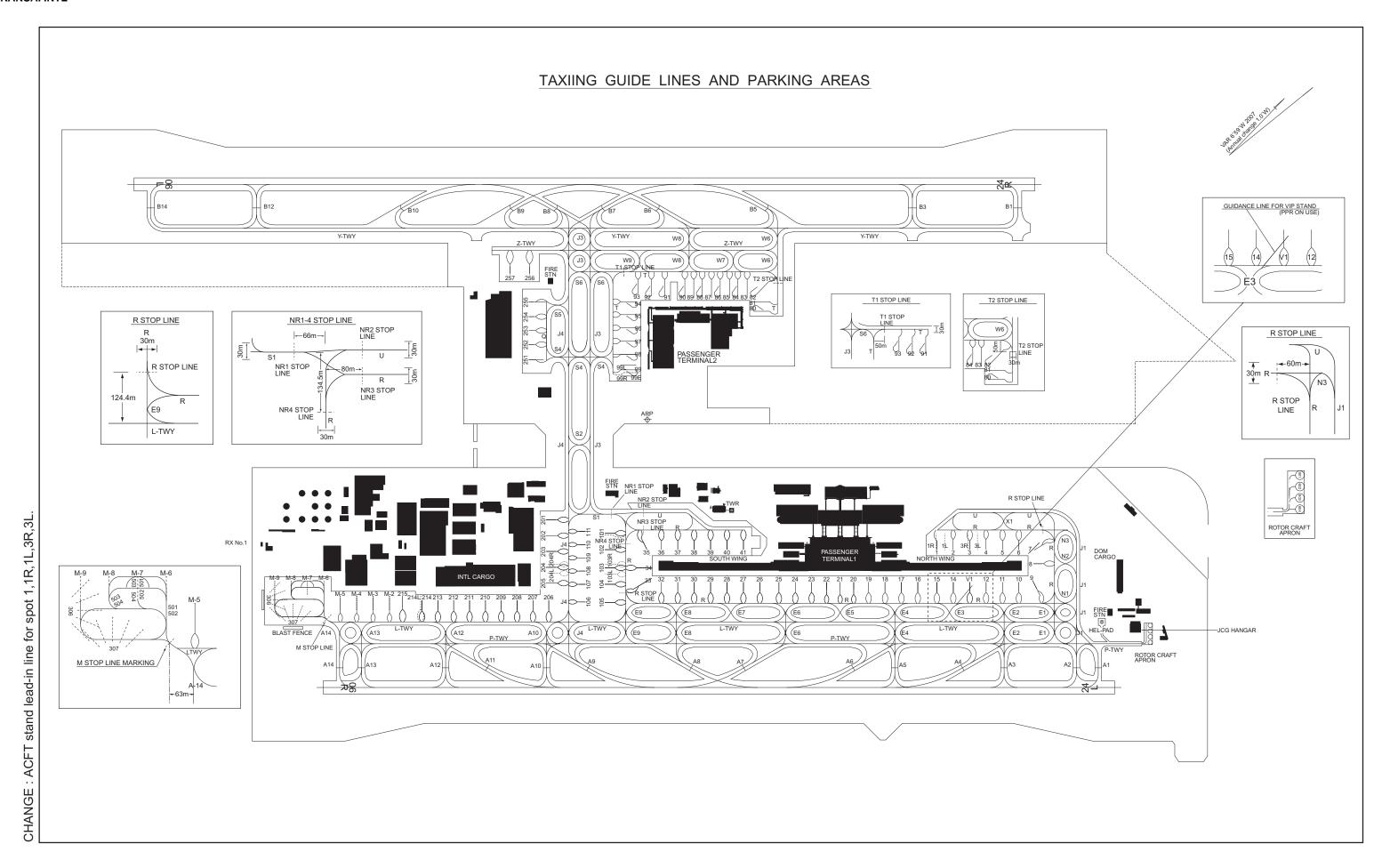
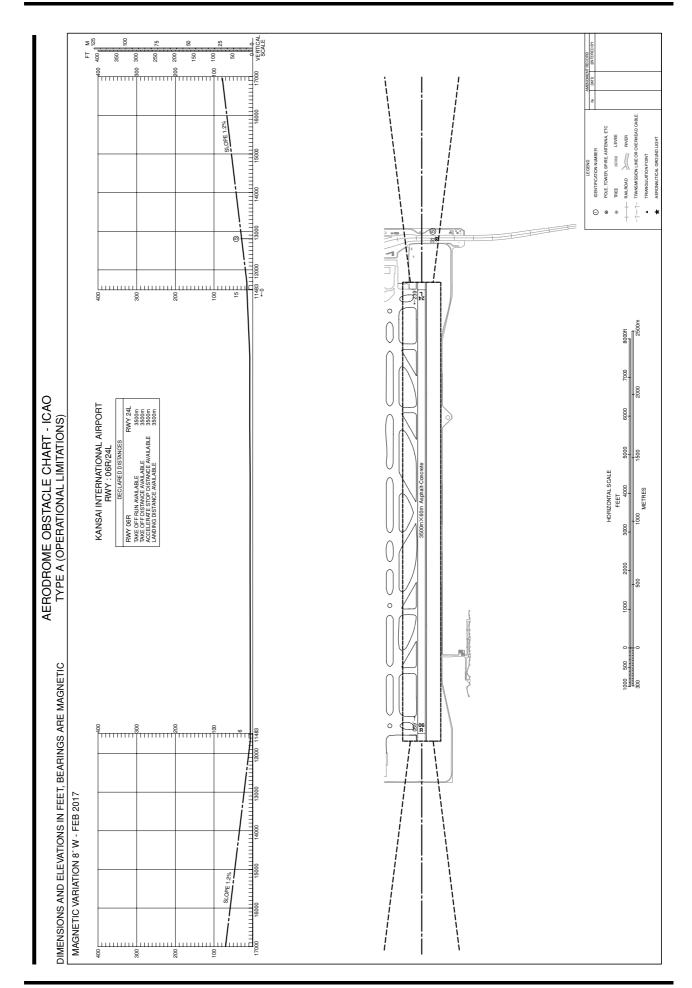
AERODROME CHART KANSAI INTERNATIONAL AIRPORT ELEV 5.3m(17.4ft) APPROACH LIGHTING SYSTEM APPROACH LIGHTING SYSTEM PAPI ANGLE 3.0° MEHT 20m (66ft) 383m INSIDE FM THR RUNWAY THRESHOLD LIGHTS RVR RUNWAY CENTERLINE LIGHTS RED FILTERS LAST 900m WHITE TOUCH DOWN ZONE LIGHTS SEQUENCED FLASHING LIGHTS (SFL-V) SEQUENCED FLASHING LIGHTS (SFL-V) OVERRUN AREA Y-TWY Y-TWY TAXIWAY LIGHTS TAXIWAY CENTERLINE LIGHTS BLUE GREEN STOP BAR LIGHTS (B1,B3,B5 ~ B10,B12,B14) PAPI ANGLE 3.0° MEHT 20.5m (67ft) 421m INSIDE FM THR RUNWAY GUARD LIGHTS (B1,B3,B5 \sim B10,B12,B14) (11) (110) (109) (108) (107) ADMIN BLDG RX No.1 ROTOR CRAFT APRON CHANGE: Spot 1R, 1L, 3R, 3L installed. SEQUENCED FLASHING LIGHTS (SFL-V) SEQUENCED FLASHING LIGHTS (SFL-V) RVR © WIND SPEED METER APPROACH LIGHTING SYSTEM APPROACH LIGHTING SYSTEM PAPI ANGLE 3.0° MEHT 20.5m (67ft) 474m INSIDE FM THR CEILO METER RUNWAY GUARD LIGHTS (A1 ~ A14) MEHT 20m (66ft) 416m INSIDE FM THR

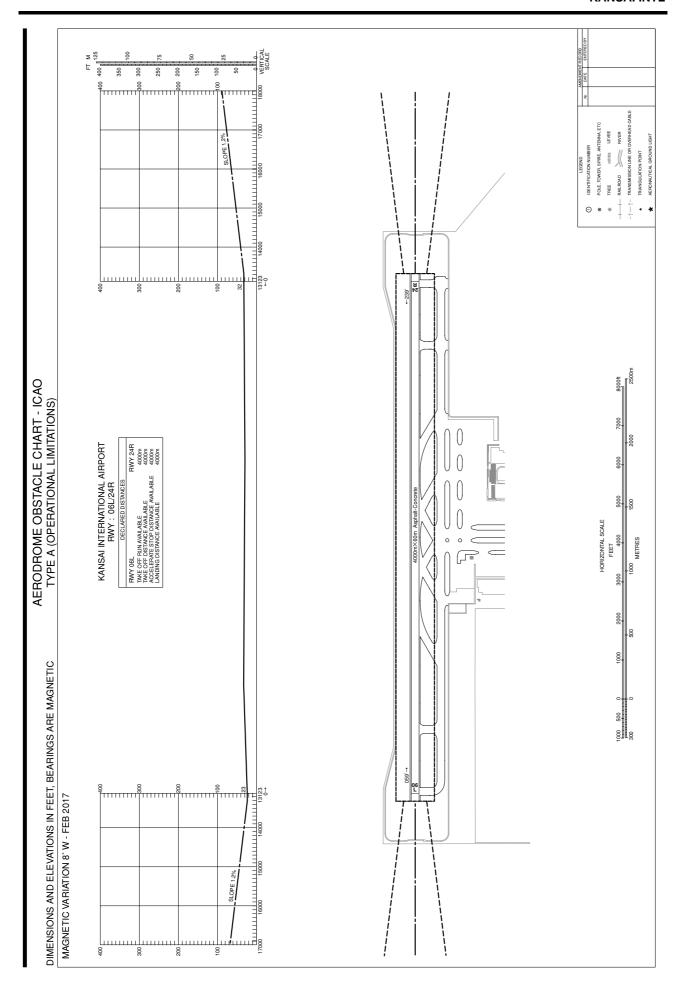
Civil Aviation Bureau, Japan (EFF:28 JAN 2021)





Civil Aviation Bureau, Japan (EFF:28 JAN 2021)



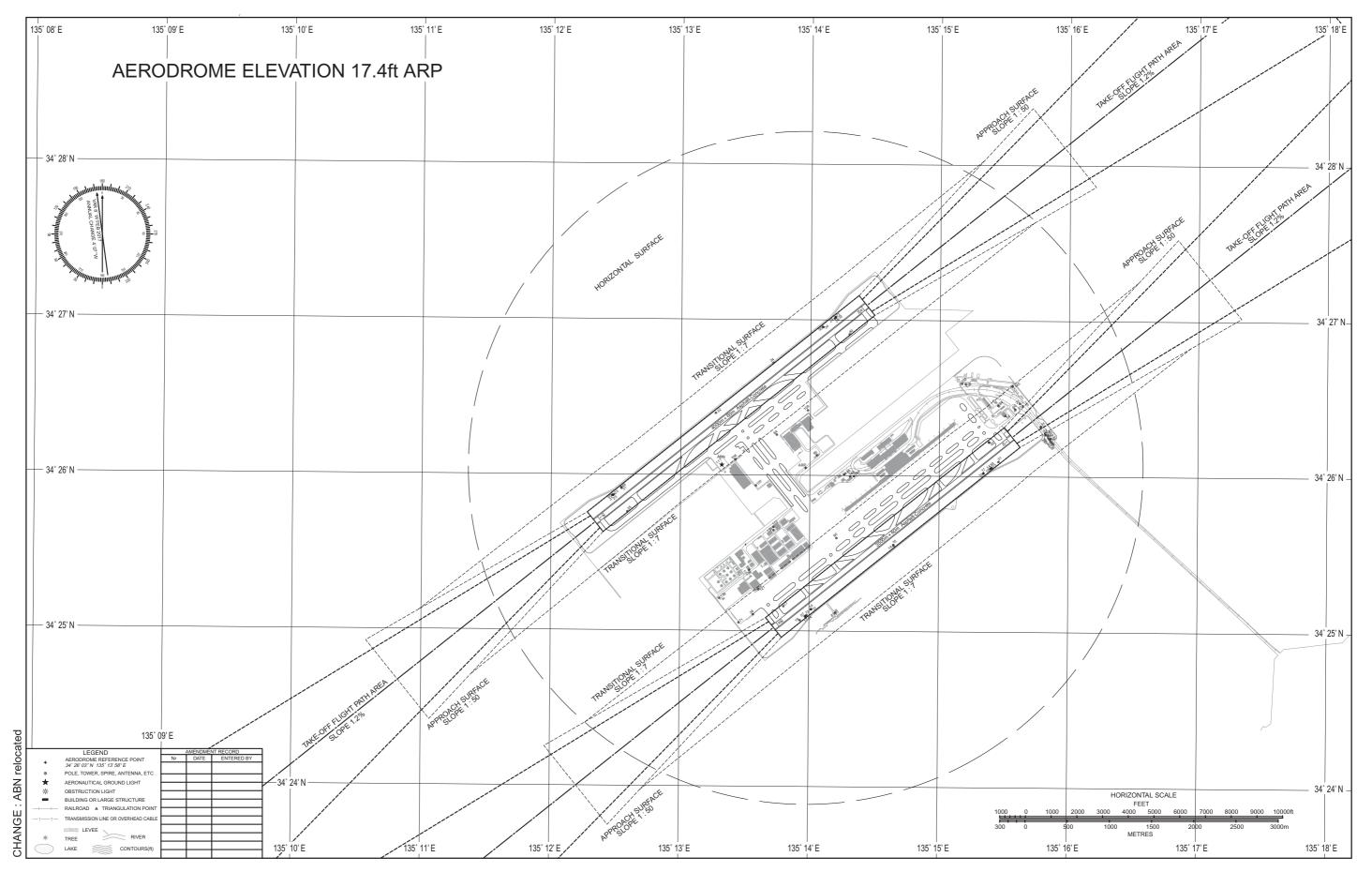


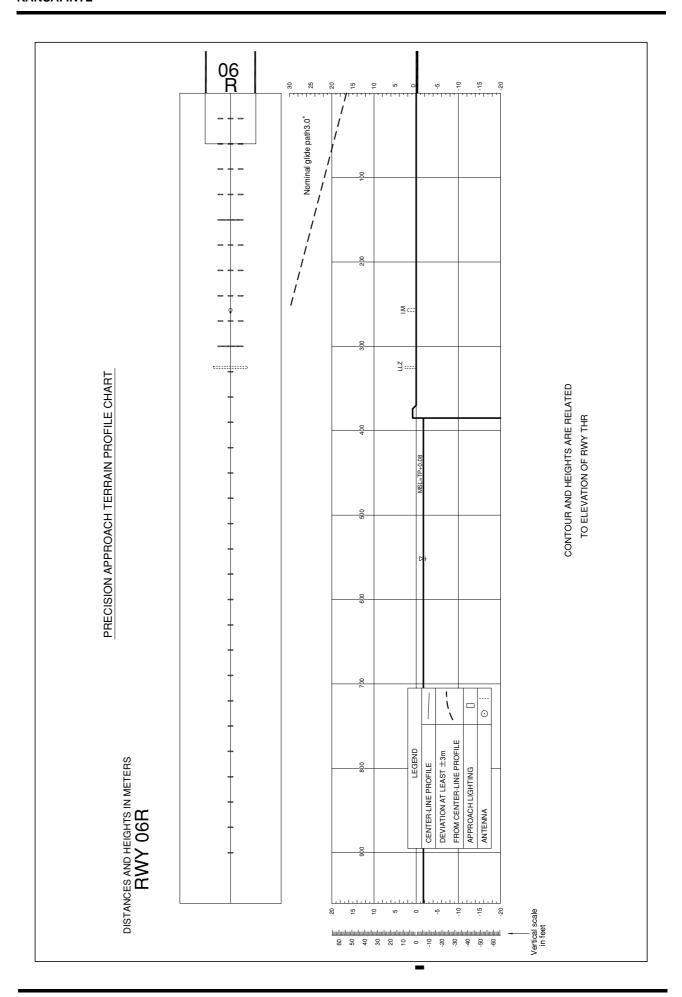
RJBB AD2.24-AOC-3

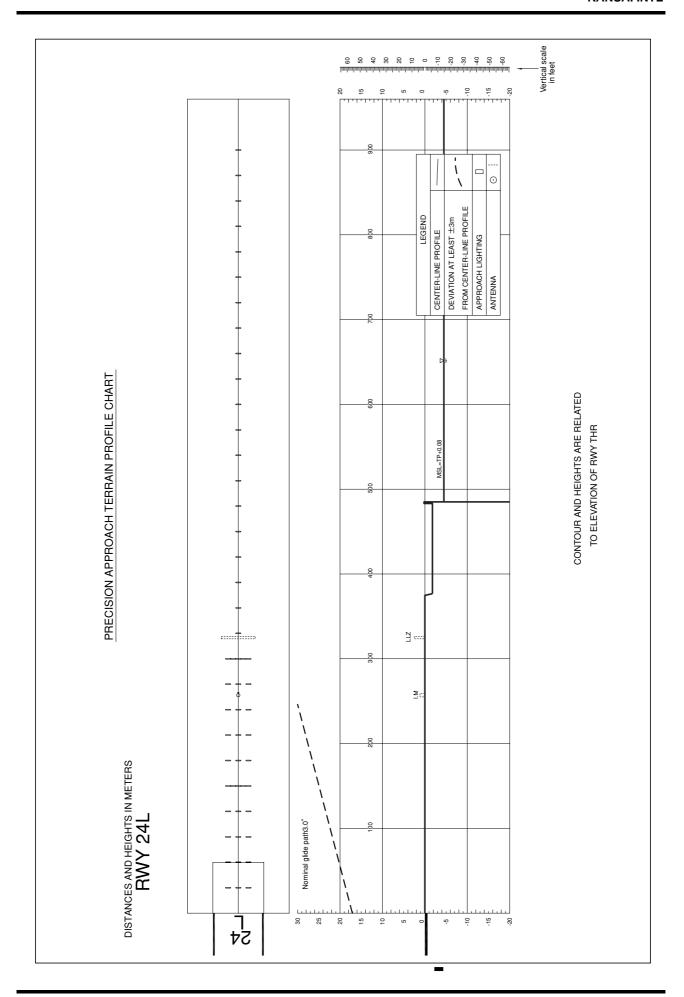
AERODROME OBSTRUCTION CHART

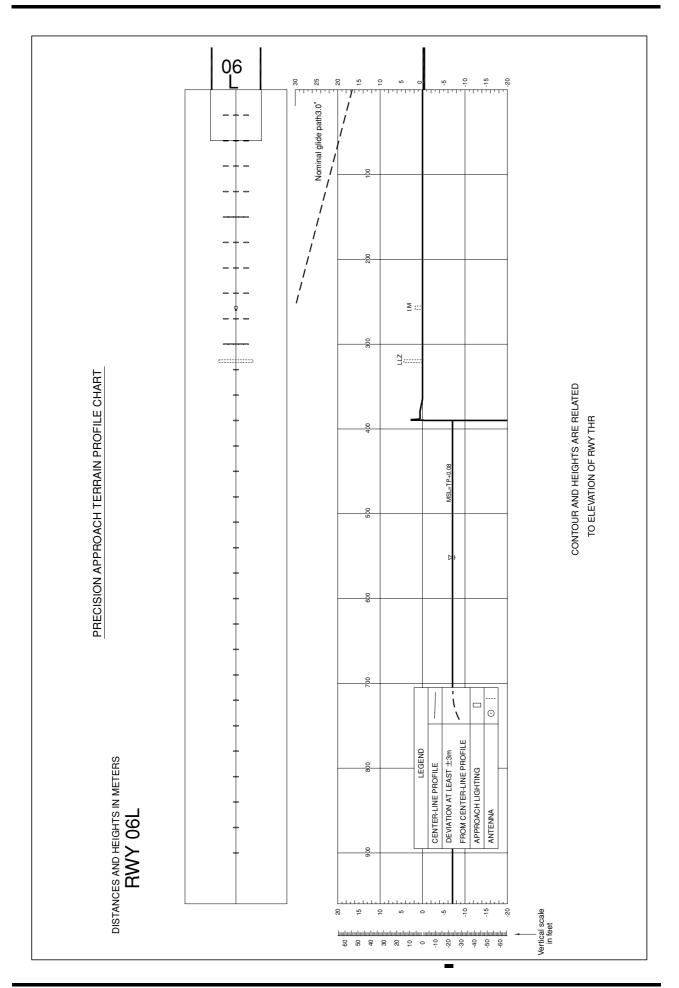
TYPE B

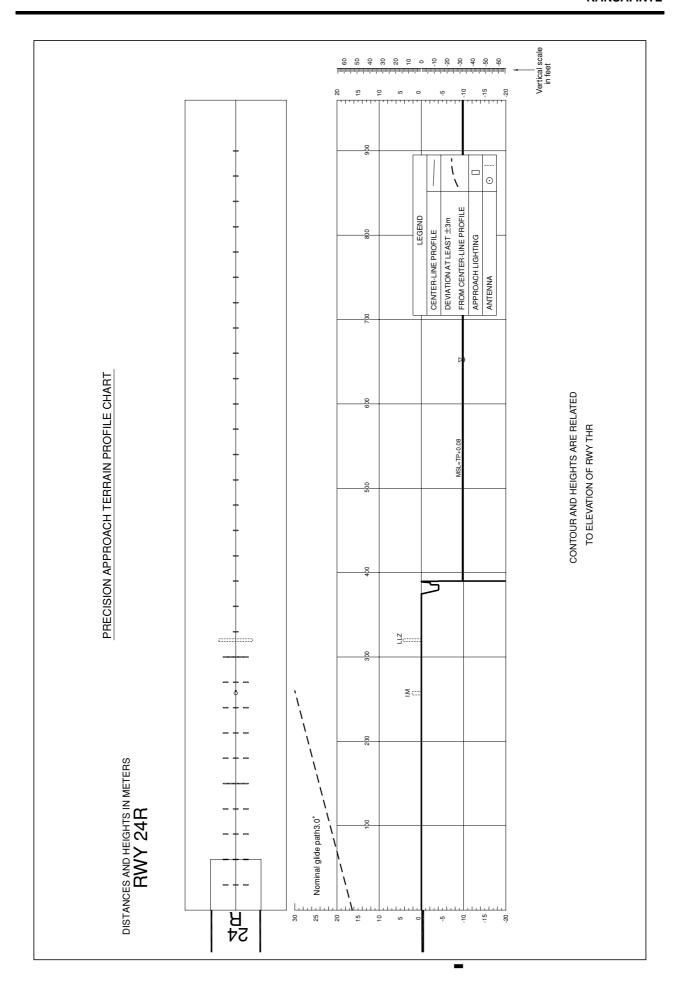
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETICS











SID RJBB / KANSAI INTL

MAIKO EIGHT DEPARTURE

RWY06R: Climb via KNE R052 to 3.5DME, turn left, via KCE R167 to intercept

and proceed via YOE R279 to MAIKO.

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

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

to MAIKO,...

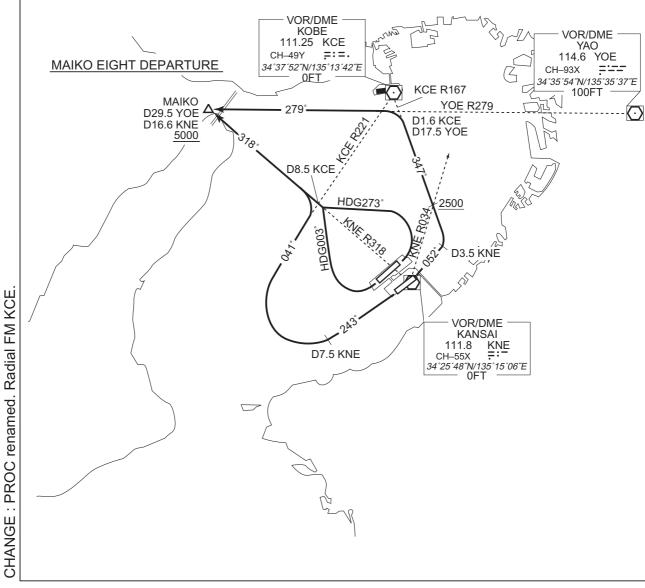
RWY24R: Turn right, climb on HDG003° to intercept and proceed via KNE R318

to MAIKO,...

RWY24L: Climb via KNE R243 to 7.5DME, turn right, via KCE R221 to intercept

and proceed via KNE R318 to MAIKO,...

...cross MAIKO at or above 5000FT.



RJBB / KANSAI INTL SID

FERRY FIVE DEPARTURE

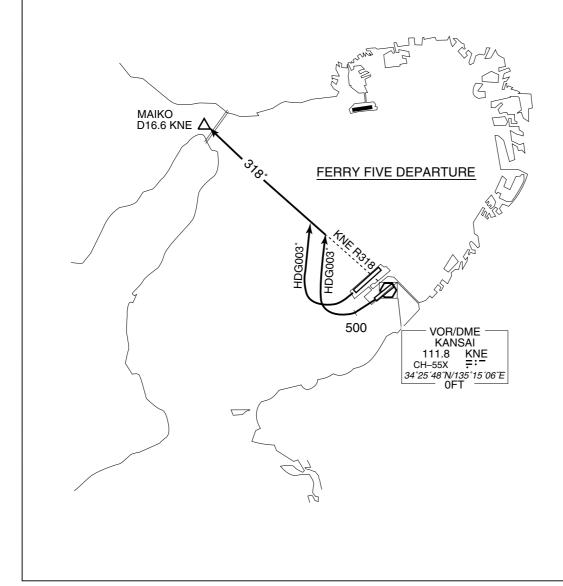
RWY24R : Turn right, climb on HDG003° to intercept and proceed via KNE R318

to MAIKO.

RWY24L : Climb RWY HDG to 500FT, turn right HDG003° to intercept and

proceed via KNE R318 to MAIKO.

Note RWY24L: No turn before DER.



RJBB / KANSAI INTL

TRANSITION

MIYAZU TRANSITION

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

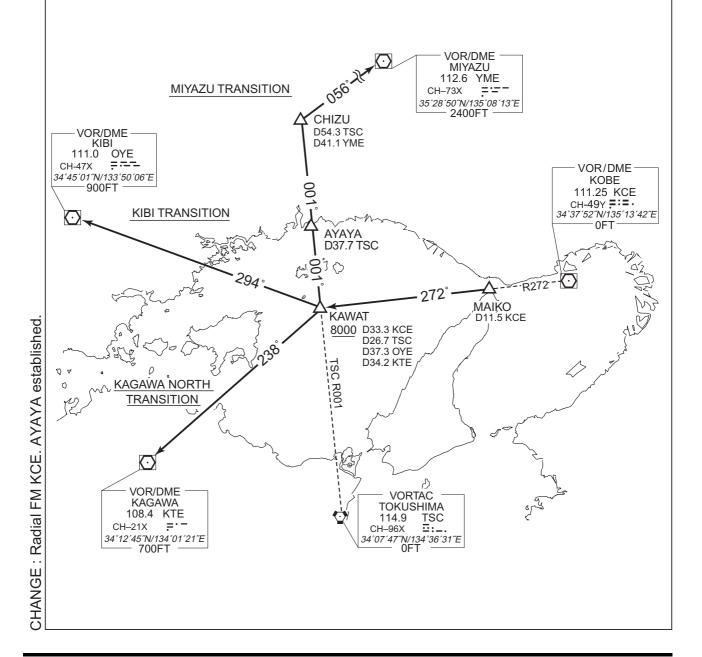
Cross KAWAT at or above 8000FT.

KIBI TRANSITION

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

KAGAWA NORTH TRANSITION

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



RJBB / KANSAI INTL SID TOMOH WEST ONE DEPARTURE RWY24R/L : Turn right, climb on HDG270° to intercept and proceed via KCE R215 to TOMOH. OR/DME KOBE 111.25 KCE CH-49Y 34°37′52″N/135°13′42″E — OFT — TOMOH WEST ONE DEPARTURE HDG270° VOR/DME KANSAI 111.8 KNE CH-55X **F:** 34°25′48″N/135°15′06″E HDG270° TOMOH D23.8 KCE

RJBB / KANSAI INTL SID

TOMOH TWO DEPARTURE

RWY06R: Climb via KNE R052 to 3.5DME, turn left, via KCE R167 to intercept and

proceed via YOE R269, via KCE R215 to TOMOH.

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

RWY06L: Turn left, climb on HDG270° to intercept and proceed via KCE R215 to

TOMOH....

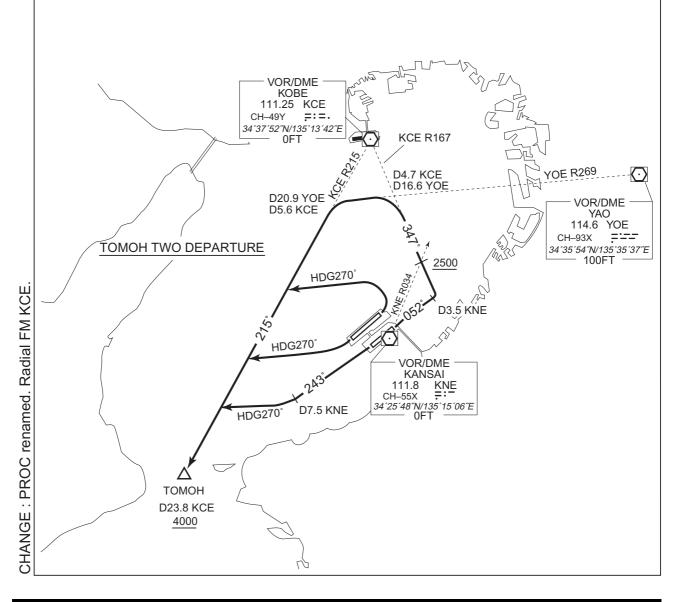
RWY24R: Turn right, climb on HDG270° to intercept and proceed via KCE R215

to TOMOH. ...

RWY24L : Climb via KNE R243 to 7.5DME, turn right HDG270° to intercept and

proceed via KCE R215 to TOMOH. ...

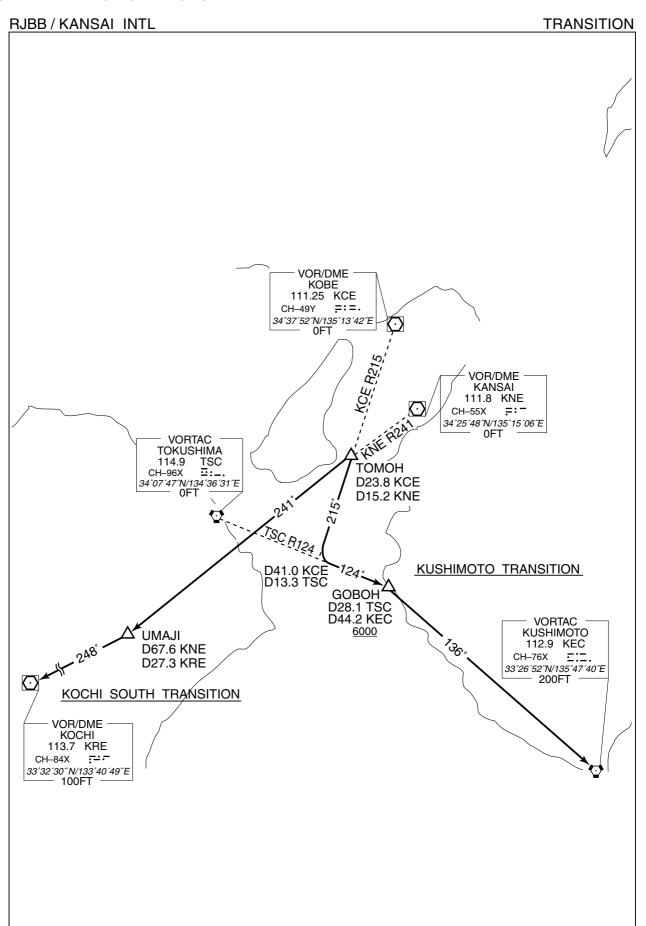
... Cross TOMOH at or above 4000FT.

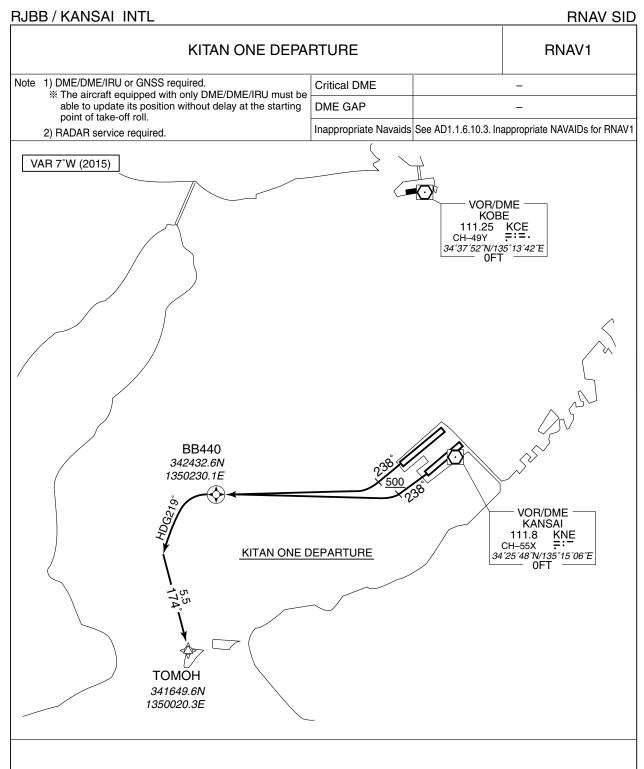


AIP Japan KANSAI INTL

STANDARD DEPARTURE CHART-INSTRUMENT

| RJBB / KANSAI INTL | TRANSITION |
|--|------------|
| KOCHI SOUTH TRANSITION From over TOMOH, proceed via KNE R241 to UMAJI, via KRE R06 VOR/DME. | 8 to KRE |
| | |
| KUSHIMOTO TRANSITION From over TOMOH, proceed via KCE R215 to intercept and proceed R124 to GOBOH, via KEC R316 to KEC VORTAC. Cross GOBOH at or above 6000FT. | d via TSC |
| | |
| | |
| | |





KITAN ONE DEPARTURE

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB440, turn left HDG219°,

to TOMOH on course 174°.

RWY24L: Climb on HDG238° at or above 500FT, turn right direct to BB440, turn left HDG219°,

to TOMOH on course 174°.

Note RWY24L: No turn before DER.

RJBB / KANSAI INTL

RNAV SID

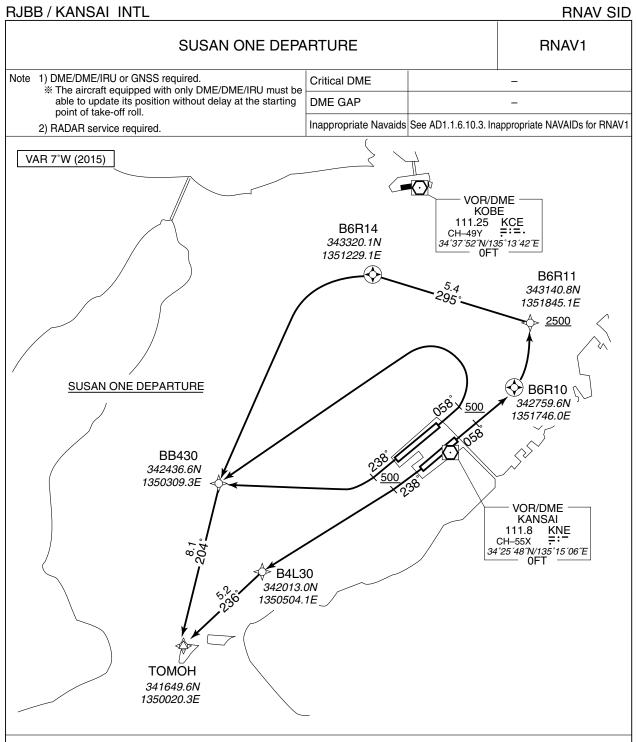
KITAN ONE DEPARTURE

RWY24R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|-----|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | BB440 | Υ | - | -7.4 | _ | R | _ | _ | _ | RNAV1 |
| 003 | VI | _ | _ | 219 (211.8) | -7.4 | _ | L | _ | _ | _ | RNAV1 |
| 004 | CF | томон | _ | 174 (166.8) | -7.4 | 5.5 | _ | _ | _ | _ | RNAV1 |

RWY24L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|-----|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | BB440 | Υ | _ | -7.4 | _ | R | _ | _ | _ | RNAV1 |
| 003 | VI | _ | _ | 219 (211.8) | -7.4 | _ | L | _ | _ | _ | RNAV1 |
| 004 | CF | томон | _ | 174 (166.8) | -7.4 | 5.5 | _ | _ | _ | _ | RNAV1 |



SUSAN ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above

2500FT, to B6R14, turn left direct to BB430, to TOMOH.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to BB430, to TOMOH.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to TOMOH.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L30, to TOMOH.

RJBB / KANSAI INTL RNAV SID

SUSAN ONE DEPARTURE

RWY06R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | - | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B6R10 | Υ | ı | -7.4 | _ | ı | _ | _ | _ | RNAV1 |
| 003 | DF | B6R11 | _ | _ | -7.4 | _ | L | +2500 | _ | _ | RNAV1 |
| 004 | TF | B6R14 | Υ | 295 (287.8) | -7.4 | 5.4 | _ | _ | _ | _ | RNAV1 |
| 005 | DF | BB430 | _ | _ | -7.4 | _ | L | _ | _ | _ | RNAV1 |
| 006 | TF | томон | _ | 204 (196.6) | -7.4 | 8.1 | _ | _ | _ | _ | RNAV1 |

RWY06L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | - | +500 | _ | _ | RNAV1 |
| 002 | DF | BB430 | _ | _ | -7.4 | _ | L | _ | _ | _ | RNAV1 |
| 003 | TF | томон | _ | 204 (196.6) | -7.4 | 8.1 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL

RNAV SID

RWY24R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|-----|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | BB430 | _ | _ | -7.4 | _ | R | - | _ | _ | RNAV1 |
| 003 | TF | ТОМОН | _ | 204 (196.6) | -7.4 | 8.1 | _ | _ | | _ | RNAV1 |

RWY24L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|-----|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | | _ | RNAV1 |
| 002 | DF | B4L30 | | _ | -7.4 | _ | ı | _ | ı | _ | RNAV1 |
| 003 | TF | томон | _ | 236 (229.1) | -7.4 | 5.2 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL RNAV TRANSITION TONDA TRANSITION / YOSAK TRANSITION RNAV1 Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 8° W(2020) TOMOH 341649.6N 1350020.3E TONDA TRANSITION 758 **ODORI** 340013.2N 3 1343011.8E 13000 6000 ≤ YOSAK 334704.7N **GOBŎH** GAP. 340638.4E 335436.4N FL160 1350622.2E **VORTAC** KUSHIMOTO DME 244°/26.0 112.9 KEC **TONDA** KOCHI(KRE) CH-76X 334343.8NS YOSAK TRANSITION 333230.4N 33°26′52″N/135°47′40″E 1352239.3E 200FT 1334048.6E ш VOR/DME KOCHI 113.7 KRE Critical CH-84X <u>---</u> 33°32′30″N/133°40′49″E KUSHIMOTO(KEC) 100FT 332651.9N 1354740.2E to KUSHIMOTO(KEC). TONDA TRANSITION From TOMOH, to GOBOH at or above 6000FT, to TONDA, to KEC. YME: TOMOH - 20.0NM to GOBOH GBD: 10.0NM to GOBOH - 4.0NM to GOBOH Critical DME KNE: 17.0NM to KEC - 11.0NM to KEC 3.0NM to GOBOH - 10.0NM to TONDA DME GAP 7.0NM to KEC - KEC GOBOH Serial Path Waypoint Fly Course Magnetic Distance Turn Altitude Speed Vertical Navigation Identifier Specification Number Descriptor Over °M(°T) Variation (NM) Direction (FT) (KIAS) Angle 001 IF **TOMOH** -7.8RNAV1 Σ 175 (167.3) 002 TF **GOBOH** -7.8 22.8 +6000 RNAV1 Course 137 (128.7) 003 TF **TONDA** -7.8 17.4 RNAV1 137 (128.9) 004 TF **KEC** RNAV1 -7.8 26.8 CHANGE: VAR.

RJBB / KANSAI INTL

RNAV TRANSITION

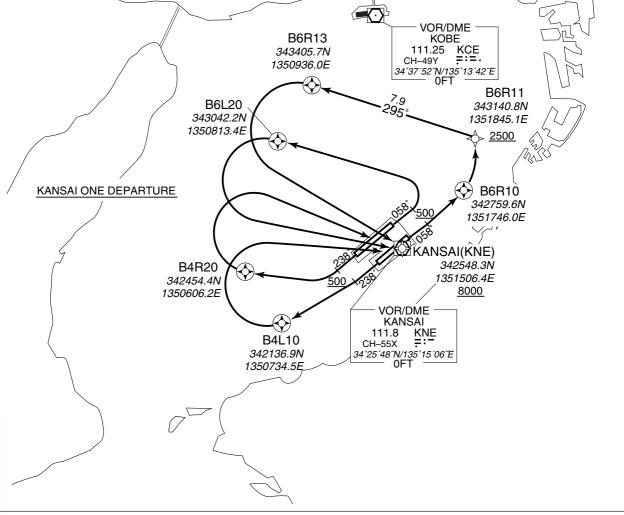
YOSAK TRANSITION

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

| Critical DME | _ |
|--------------|---|
| DME GAP | _ |

| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | Speed | Vertical | Navigation |
|--------|------------|------------|------|----------------|-----------|----------|-----------|----------|--------|----------|---------------|
| Number | Descriptor | Identifier | Over | °M(°T) | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | IF | томон | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | ODORI | _ | 244 (236.5) | -7.8 | 30.0 | _ | +13000 | _ | _ | RNAV1 |
| 003 | TF | YOSAK | _ | 244 (236.2) | -7.8 | 23.6 | - | +FL160 | _ | _ | RNAV1 |
| 004 | TF | KRE | _ | 244 (236.0) | -7.8 | 26.0 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL **RNAV SID** KANSAI ONE DEPARTURE RNAV1 DME/DME/IRU or GNSS required. Critical DME * The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) VOR/DME B6R13 **KOBE**



KANSAI ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above 2500FT, to B6R13, turn left direct to KNE at or above 8000FT.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to <u>B6L20</u>, turn left direct to KNE at or above 8000FT.

RWY24R : Climb on HDG238° at or above 500FT, turn right direct to <u>B4R20</u>, turn right direct to KNE at or above 8000FT.

RWY24L: Climb on HDG238° at or above 500FT, direct to <u>B4L10</u>, turn right direct to KNE at or above 8000FT.

RJBB / KANSAI INTL RNAV SID

KANSAI ONE DEPARTURE

RWY06R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B6R10 | Υ | _ | -7.4 | _ | - | _ | - | _ | RNAV1 |
| 003 | DF | B6R11 | _ | _ | -7.4 | _ | L | +2500 | _ | _ | RNAV1 |
| 004 | TF | B6R13 | Υ | 295 (287.8) | -7.4 | 7.9 | _ | - | | _ | RNAV1 |
| 005 | DF | KNE | _ | _ | -7.4 | _ | L | +8000 | _ | _ | RNAV1 |

RWY06L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|---|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B6L20 | Υ | _ | -7.4 | _ | L | - | _ | _ | RNAV1 |
| 003 | DF | KNE | _ | _ | -7.4 | _ | L | +8000 | _ | _ | RNAV1 |

RJBB / KANSAI INTL

RNAV SID

RWY24R

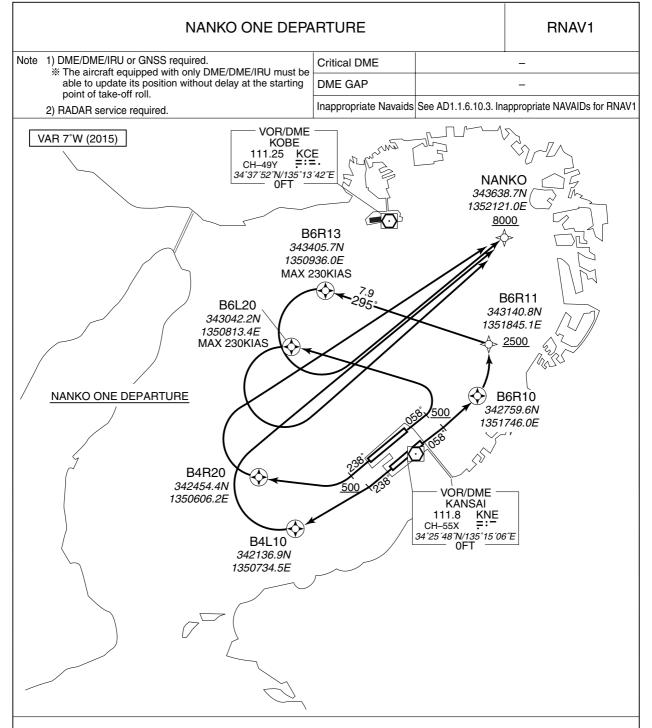
| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | Speed | Vertical | Navigation |
|--------|------------|------------|------|----------------|-----------|----------|-----------|----------|--------|----------|---------------|
| Number | Descriptor | Identifier | Over | °M(°T) | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B4R20 | Υ | _ | -7.4 | _ | R | _ | _ | _ | RNAV1 |
| 003 | DF | KNE | _ | _ | -7.4 | _ | R | +8000 | _ | _ | RNAV1 |

RWY24L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B4L10 | Υ | - | -7.4 | _ | - | _ | _ | _ | RNAV1 |
| 003 | DF | KNE | _ | _ | -7.4 | _ | R | +8000 | _ | _ | RNAV1 |

RJBB / KANSAI INTL **RNAV TRANSITION** BAMBI TRANSITION / SHTLE TRANSITION / UENOH TRANSITION RNAV1 1) DME/DME/IRU or GNSS required. 2) RADAR service required. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7° W(2016) **GUJYO** 352150.5N ♥1363438.5E **UENOH TRANSITION** W **UENOH** 345008.7N 1361333.7F SHTLE 344951.0N 1365653.8E **BAMBI TRANSITION** 21.8 SHTLE TRANSITION YAGYU 086 NARAH 343239.3N VOR/DME 342958.8N 1355738.1E KANSAI(KNE) 1354102.9E KANSAI 111.8 KNE 342548.3N **=:**-1351506.4E CH-55X 34°25′48″N/135°15′06″E OFT **BAMBI TRANSITION** Critical DME From KNE, to NARAH. **DME GAP** Path Course Magnetic Distance Altitude Speed Vertical Navigation Serial Waypoint Fly Turn Angle | Specification (NM) Number Descriptor Identifier Over Variation Direction (KIAS) °M(°T) (FT) -7.5 IF RNAV1 001 **KNE** 086 (078.8 -7.5 RNAV1 TF **NARAH** 21.8 002 SHTLE TRANSITION Critical DME From KNE, to NARAH, to YAGYU, to SHTLE. DME GAP Path Waypoint Course | Magnetic | Distance | Turn Altitude | Speed | Vertical | Navigation Number Descriptor Identifier °M(°T) Variation (NM) Direction (KIAS) Angle Specification Over (FT) IF -7.5 RNAV1 001 **KNE** 086 (078.8) 002 TF **NARAH** -7.5 21.8 RNAV1 086 (078.8) TF YAGYU -7.5 RNAV1 003 13.9 TF 078 (070.3) -7.5 RNAV1 004 SHTLE 51.7 **UENOH TRANSITION** KCC: 32.0NM to GUJYO - 24.0NM to GUJYO Critical DME From KNE, to NARAH, to UENOH, to GUJYO. DME GAP Serial Path Waypoint Fly Course Magnetic Distance Turn Altitude Speed Vertical Navigation Number Descriptor (KIAS) | Angle | Specification Identifier Over °M(°T) Variation (NM) Direction (FT) 001 IF -7.5 RNAV1 **KNE** 086 (078.8) 002 TF **NARAH** -7.5 21.8 RNAV1 003 TF **UENOH** -7.5 33.5 RNAV1 TF 036 -7.5 004 **GUJYO** 36.1 RNAV1

RJBB / KANSAI INTL RNAV SID



NANKO ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above 2500FT, to B6R13, turn left direct to NANKO at or above 8000FT.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to <u>B6L20</u>, turn left direct to NANKO at or above 8000FT.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to <u>B4R20</u>, turn right direct to NANKO at or above 8000FT.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to NANKO at or above

8000FT.

RJBB / KANSAI INTL RNAV SID

NANKO ONE DEPARTURE

RWY06R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B6R10 | Υ | _ | -7.4 | _ | _ | _ | _ | _ | RNAV1 |
| 003 | DF | B6R11 | _ | - | -7.4 | _ | L | +2500 | _ | _ | RNAV1 |
| 004 | TF | B6R13 | Υ | 295 (287.8) | -7.4 | 7.9 | _ | _ | -230 | _ | RNAV1 |
| 005 | DF | NANKO | _ | 1 | -7.4 | _ | L | +8000 | _ | _ | RNAV1 |

RWY06L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|---|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B6L20 | Υ | _ | -7.4 | _ | L | _ | -230 | _ | RNAV1 |
| 003 | DF | NANKO | _ | _ | -7.4 | _ | L | +8000 | _ | _ | RNAV1 |

RJBB / KANSAI INTL RNAV SID

RWY24R

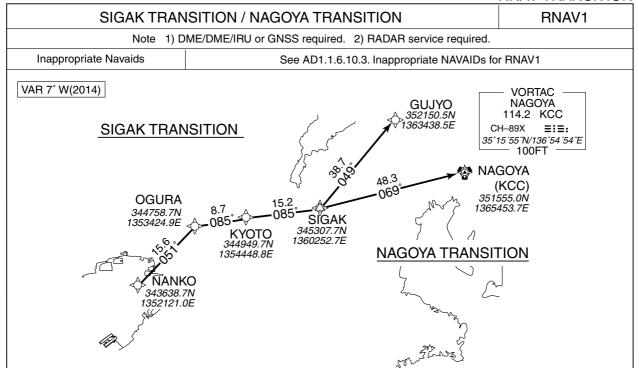
| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | Speed | Vertical | Navigation |
|--------|------------|----------|------|----------------|-----------|----------|-----------|----------|--------|----------|------------|
| | Descriptor | ,, | Over | °M(°T) | Variation | | Direction | | (KIAS) | Angle | ı |
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B4R20 | Υ | _ | -7.4 | _ | R | _ | _ | _ | RNAV1 |
| 003 | DF | NANKO | _ | _ | -7.4 | _ | R | +8000 | _ | _ | RNAV1 |

RWY24L

| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | Speed | Vertical | Navigation |
|--------|------------|------------|------|----------------|-----------|----------|-----------|----------|--------|----------|---------------|
| Number | Descriptor | Identifier | Over | °M(°T) | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B4L10 | Υ | _ | -7.4 | _ | _ | - | _ | _ | RNAV1 |
| 003 | DF | NANKO | _ | _ | -7.4 | _ | R | +8000 | _ | _ | RNAV1 |

RJBB / KANSAI INTL

RNAV TRANSITION



SIGAK TRANSITION

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | | | | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------|-------------------|---|---|---|-----------------------------|
| 001 | IF | NANKO | _ | _ | -7.2 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | OGURA | _ | 051 (043.4) | -7.2 | 15.6 | _ | _ | _ | _ | RNAV1 |
| 003 | TF | KYOTO | _ | 085 (077.7) | -7.2 | 8.7 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | SIGAK | _ | 085 (077.4) | -7.2 | 15.2 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | GUJYO | _ | 049 (042.0) | -7.2 | 38.7 | _ | _ | _ | _ | RNAV1 |

NAGOYA TRANSITION

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

| Critical DME | ITE: 8.0NM to SIGAK - 5.0NM to SIGAK |
|--------------|--------------------------------------|
| DME GAP | _ |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | | | | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------|-------------------|---|---|---|-----------------------------|
| 001 | IF | NANKO | _ | _ | -7.2 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | OGURA | _ | 051 (043.4) | -7.2 | 15.6 | ı | _ | _ | _ | RNAV1 |
| 003 | TF | KYOTO | _ | 085 (077.7) | -7.2 | 8.7 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | SIGAK | _ | 085 (077.4) | -7.2 | 15.2 | | _ | _ | _ | RNAV1 |
| 005 | TF | KCC | _ | 069 (061.6) | -7.2 | 48.3 | 1 | _ | _ | _ | RNAV1 |

VOR/DME

KANSAI

34°25′48″N/<u>13</u>5°15′06″E

111.8

CH-55X

KNE

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL **RNAV SID** HELEN ONE DEPARTURE RNAV1 1) DME/DME/IRU or GNSS required. Critical DME * The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) HELEN ONE DEPARTURE **MAIKO** 343639.7N VOR/DME <u>8000</u> 1345949.1E KOBE (for RWY24R/L) 111.25 KCE CH-49Y 34°37′52″N/135°13′42″E 10.3 **HELEN** 0FT 343448.9N 295 B6R11 343140.8N 1350651.8E 1351845.1E <u>2500</u> B6R10 342759.6N 1351746.0E BB430 342436.6N

HELEN ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above

B4L10

342136.9N

1350734.5E

2500FT, to HELEN, to MAIKO.

RWY06L: Climb on HDG058° at or above 500FT, turn left direct to HELEN, to MAIKO.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to BB430, to HELEN

at or above 8000FT, to MAIKO.

1350309.3E

MAX210KIAS

RJBB / KANSAI INTL RNAV SID

HELEN ONE DEPARTURE

RWY06R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | - | _ | RNAV1 |
| 002 | DF | B6R10 | Υ | _ | -7.4 | _ | _ | _ | _ | _ | RNAV1 |
| 003 | DF | B6R11 | _ | - | -7.4 | _ | L | +2500 | _ | - | RNAV1 |
| 004 | TF | HELEN | _ | 295 (287.8) | -7.4 | 10.3 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | MAIKO | _ | 295 (287.7) | -7.4 | 6.1 | _ | - | _ | _ | RNAV1 |

RWY06L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | HELEN | _ | _ | -7.4 | _ | L | - | _ | _ | RNAV1 |
| 003 | TF | MAIKO | _ | 295 (287.7) | -7.4 | 6.1 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL RNAV SID

RWY24R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | BB430 | _ | _ | -7.4 | _ | R | ı | -210 | _ | RNAV1 |
| 003 | TF | HELEN | _ | 024 (016.6) | -7.4 | 10.7 | _ | +8000 | _ | _ | RNAV1 |
| 004 | TF | MAIKO | _ | 295 (287.7) | -7.4 | 6.1 | _ | _ | _ | _ | RNAV1 |

RWY24L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | - | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B4L10 | Υ | _ | -7.4 | _ | _ | - | _ | _ | RNAV1 |
| 003 | DF | BB430 | - | _ | -7.4 | _ | R | ı | -210 | _ | RNAV1 |
| 004 | TF | HELEN | _ | 024 (016.6) | -7.4 | 10.7 | _ | +8000 | _ | - | RNAV1 |
| 005 | TF | MAIKO | _ | 295 (287.7) | -7.4 | 6.1 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL **RNAV SID IWAYA ONE DEPARTURE** RNAV1 Note 1) DME/DME/IRU or GNSS required. Critical DME ** The aircraft equipped with only DME/DME/IRU must be able to update its position without delay at the starting DME GAP point of take-off roll. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 2) RADAR service required. VAR 7°W (2015) **MAIKO** 343639.7N VOR/DME **HELEN** 1345949.1E **KOBE** 343448.9N 111.25 1350651.8E CH-49Y 8000 34°37′52″N/135°13′42″E **IWAYA ONE DEPARTURE** BB430 342436.6N 1350309.3E VOR/DME KANSAI 111.8 CH-55X 34°25′48″N/135°15′06″E 0FT

IWAYA ONE DEPARTURE

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

RWY24L: Climb on HDG238° at or above 500FT, turn right direct to BB430, to HELEN at or above

8000FT, to MAIKO.

Note RWY24L: No turn before DER.

RJBB / KANSAI INTL RNAV SID

IWAYA ONE DEPARTURE

RWY24R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | BB430 | _ | _ | -7.4 | _ | R | _ | _ | _ | RNAV1 |
| 003 | TF | HELEN | _ | 024 (016.6) | -7.4 | 10.7 | _ | +8000 | _ | _ | RNAV1 |
| 004 | TF | MAIKO | _ | 295 (287.7) | -7.4 | 6.1 | _ | _ | _ | _ | RNAV1 |

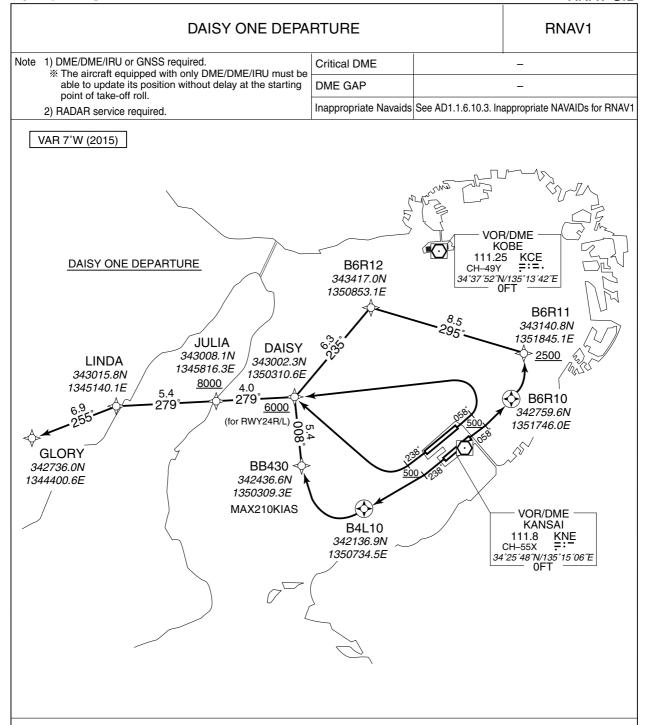
RWY24L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | - | _ | RNAV1 |
| 002 | DF | BB430 | _ | _ | -7.4 | _ | R | _ | 1 | _ | RNAV1 |
| 003 | TF | HELEN | _ | 024 (016.6) | -7.4 | 10.7 | _ | +8000 | - | _ | RNAV1 |
| 004 | TF | MAIKO | _ | 295 (287.7) | -7.4 | 6.1 | _ | - | _ | _ | RNAV1 |

| RJBB / | RJBB / KANSAI INTL RNAV TRANSITION | | | | | | | | | | |
|----------------------------------|---|-------------------------|----------------------|-----------------------|--------------------------------|-------------|---------------------|-------------------|--------------------|------------|------------------------|
| SHION | TRANSITIO | N / SOUJA ⁻ | TRANS | SITION / V | VASYU TRA | ANSITION | I / HABAR | TRANSI1 | TION | R | NAV1 |
| | | Note | 1) DME | /DME/IRU | or GNSS req | uired. 2) F | RADAR serv | ice required | d. | | |
| Inap | propriate Na | avaids | | | See AD | 1.1.6.10.3 | . Inapprop | riate NAVA | AIDs for F | RNAV1 | |
| VAR 7° | W(2009) | | | | | | | | | | |
| | | | | C | | | | ` . | MAIKO |) | |
| | SOUJ <i>i</i> 343738.6N | | OUJA | FRANSITI | <u>ÔN</u> SHI | ON TRANS | SITION | DE | 343639 \1345949 | 9.7N | |
| | 1334422.5E | | | الخبر | <u>01111</u> | | WEN | DY . | 1345948 | 9.1E | |
| WA | SYU TRANS | SITION | 307 | 1 | \sim | | 343209. 1345030. | | | | Й |
| | | 5 44.6 | بوت کر | | _ } | 28 - 26 | 4 4 | | | | 57 |
| WASYU | | ₹281≈ |) | | | | | |) | / | 3 |
| 342817.51 1332301.11 | | | 35.0 267 — | 700 | [∀] SHION 342542.1 | 1 <i>N</i> | <i>بر</i> | (| | \\$ | |
| | \Diamond | C HADAD | TDAN | | √_1341657.4 | | | 4 | | | / |
| | HABAR 341909.7N | | | | | | | | | | |
| 1333 | 3519.6E | | | | | | 1 | | | | |
| | | | | | | | | | | | |
| SHION | SHION TRANSITION Critical DME - | | | | | | | | | | |
| From N | From MAIKO, to WENDY, to SHION. DME GAP — | | | | | | | | | | |
| Serial | Path | Waypoint Identifier | Fly | Course | Magnetic Variation | | | Altitude | | Vertical | |
| 001 | Descriptor IF | MAIKO | Over | °M(°T) | -7.2 | (NM) | Direction | (FT) | (KIAS) | Angle | Specification RNAV1 |
| 002 TE WENDY - 247 7.2 9.0 DNAV1 | | | | | | | | | | | |
| (233.0) | | | | | | | | | RNAV1 | | |
| | TRANSITI | | | (257.0) | 1 7 | | | | | | |
| | | WENDY, to | SHIO | N, to SO | UJA. | | | cal DME IE GAP | | | _ |
| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | | Vertical | Navigation |
| | Descriptor | Identifier | Over | °M(°T) | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | IF | MAIKO | _ | - 247 | -7.2 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | WENDY | _ | 247 (239.6) | -7.2 | 8.9 | _ | | _ | _ | RNAV1 |
| 003 | TF | SHION | _ | 264 (257.0) 301 | -7.2 | 28.4 | _ | <u> </u> | | | RNAV1 |
| 004 | TF | SOUJA | | (294.1) | -7.2 | 29.4 | _ | | | | RNAV1 |
| | TRANSIT | <u>ION</u> WENDY, to | S LIIO | NI +a \A/A | CVII | | | cal DME | | | _ |
| Serial | Path | Waypoint | Fly | Course | Magnetic | Dietopoo | | IE GAP | Spood | Vortical | Navigation |
| | Descriptor | | Over | | Variation | (NM) | Direction | (FT) | (KIAS) | | Specification |
| 001 | IF | MAIKO | _ | _ | -7.2 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | WENDY | _ | 247 (239.6) | -7.2 | 8.9 | _ | _ | _ | _ | RNAV1 |
| 003 | TF | SHION | _ | 264 (257.0) | -7.2 | 28.4 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | WASYU | - | 281 (273.6) | -7.2 | 44.6 | _ | _ | - | - | RNAV1 |
| HABAR | TRANSIT | ION | | | | | Criti | cal DME | | | |
| | | WENDY, to | SHIO | N, to HA | BAR. | | DM | IE GAP | | | _ |
| Serial | Path | Waypoint | Fly | Course | Magnetic | | Turn | Altitude | | | Navigation |
| | Descriptor | Identifier | Over | | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | IF | MAIKO | _ | - 247 | -7.2 | _ | _ | | _ | _ | RNAV1 |
| 002 | TF | WENDY | | 247 (239.6) | -7.2 | 8.9 | <u> </u> | | _ | | RNAV1 |
| 003 | TF | SHION | | 264 (257.0) 267 | -7.2 | 28.4 | _ | | | | RNAV1 |
| 004 | TF | HABAR | | 267 (259.4) | -7.2 | 35.0 | _ | | _ | _ | RNAV1 |
| | | | | | | | | | | | |

RJBB / KANSAI INTL **RNAV TRANSITION** CHIZU TRANSITION RNAV1 KNE: 17.1NM to YME - 14.1NM to YME Note 1) DME/DME/IRU or GNSS required. Critical DME YME: 17.1NM to YME - 14.1NM to YME 2) RADAR service required. DME GAP Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. VAR 8° W(2019) MIYAZU(YME) 352850.5N 1350813.3E VOR/DME MIYAZU 112.6 YME CH-73X 35°28′50″N/135°08′13″E 2400FT **CHIZU** 350146.2N 1343025.4E CHIZU TRANSITION AYAYA 344519.1N 1343217.7E CHANGE: VAR. AYAYA established. Course FM MAIKO to KAWAT 21.8 MAÏKO KAWAT 343639.7N 343419.4N 1345949.1E 1343332.3E 8000 **CHIZU TRANSITION** From MAIKO, to KAWAT at or above 8000FT, to AYAYA, to CHIZU, to YME. Fly Vertical Navigation Serial Path Waypoint Course Magnetic Distance Turn Altitude Speed Number Descriptor Identifier Over °M(°T) Variation (NM) Direction (FT) (KIAS) Angle Specification 001 IF **MAIKO** -7.7 RNAV1 272 (264.0) 002 TF **KAWAT** -7.7 21.8 +8000 RNAV1 002 (354.7) 003 **AYAYA** RNAV1 TF -7.7 11.0 002 (354.7) 004 16.5 TF **CHIZU** -7.7 RNAV1 056 (048.6) 005 TF 41.1 RNAV1 YME -7.7

RJBB / KANSAI INTL RNAV SID



DAISY ONE DEPARTURE

RWY06R: Climb on HDG058° at or above 500FT, direct to <u>B6R10</u>, turn left direct to B6R11 at or above 2500FT, to B6R12, to DAISY, to JULIA at or above 8000FT, to LINDA, to GLORY.

 $RWY06L: \ Climb \ on \ HDG058° \ at \ or \ above \ 500FT, \ turn \ left \ direct \ to \ DAISY, \ to \ JULIA \ at \ or \ above \ 8000FT,$

to LINDA, to GLORY.

RWY24R: Climb on HDG238° at or above 500FT, turn right direct to DAISY at or above 6000FT, to JULIA at or above 8000FT, to LINDA, to GLORY.

to Jolia at of above 6000F1, to Linda, to Glont.

RWY24L: Climb on HDG238° at or above 500FT, direct to B4L10, turn right direct to BB430, to DAISY

at or above 6000FT, to JULIA at or above 8000FT, to LINDA, to GLORY.

RJBB / KANSAI INTL

RNAV SID

DAISY ONE DEPARTURE

RWY06R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B6R10 | Υ | - | -7.4 | _ | _ | - | _ | _ | RNAV1 |
| 003 | DF | B6R11 | _ | _ | -7.4 | _ | L | +2500 | _ | _ | RNAV1 |
| 004 | TF | B6R12 | _ | 295 (287.8) | -7.4 | 8.5 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | DAISY | _ | 235 (228.0) | -7.4 | 6.3 | _ | _ | _ | _ | RNAV1 |
| 006 | TF | JULIA | _ | 279 (271.4) | -7.4 | 4.0 | _ | +8000 | _ | _ | RNAV1 |
| 007 | TF | LINDA | _ | 279 (271.4) | -7.4 | 5.4 | _ | _ | _ | _ | RNAV1 |
| 008 | TF | GLORY | _ | 255 (247.2) | -7.4 | 6.9 | _ | - | _ | _ | RNAV1 |

RWY06L

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 058 (050.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | DAISY | _ | - | -7.4 | _ | L | _ | _ | _ | RNAV1 |
| 003 | TF | JULIA | _ | 279 (271.4) | -7.4 | 4.0 | _ | +8000 | _ | _ | RNAV1 |
| 004 | TF | LINDA | _ | 279 (271.4) | -7.4 | 5.4 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | GLORY | _ | 255 (247.2) | -7.4 | 6.9 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL RNAV SID

RWY24R

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|------------------|-----------------------|-----|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | 1 | +500 | Ī | _ | RNAV1 |
| 002 | DF | DAISY | _ | _ | -7.4 | _ | R | +6000 | _ | _ | RNAV1 |
| 003 | TF | JULIA | _ | 279 (271.4) | -7.4 | 4.0 | - | +8000 | _ | - | RNAV1 |
| 004 | TF | LINDA | _ | 279 (271.4) | -7.4 | 5.4 | 1 | 1 | _ | _ | RNAV1 |
| 005 | TF | GLORY | _ | 255 (247.2) | -7.4 | 6.9 | 1 | ı | - | _ | RNAV1 |

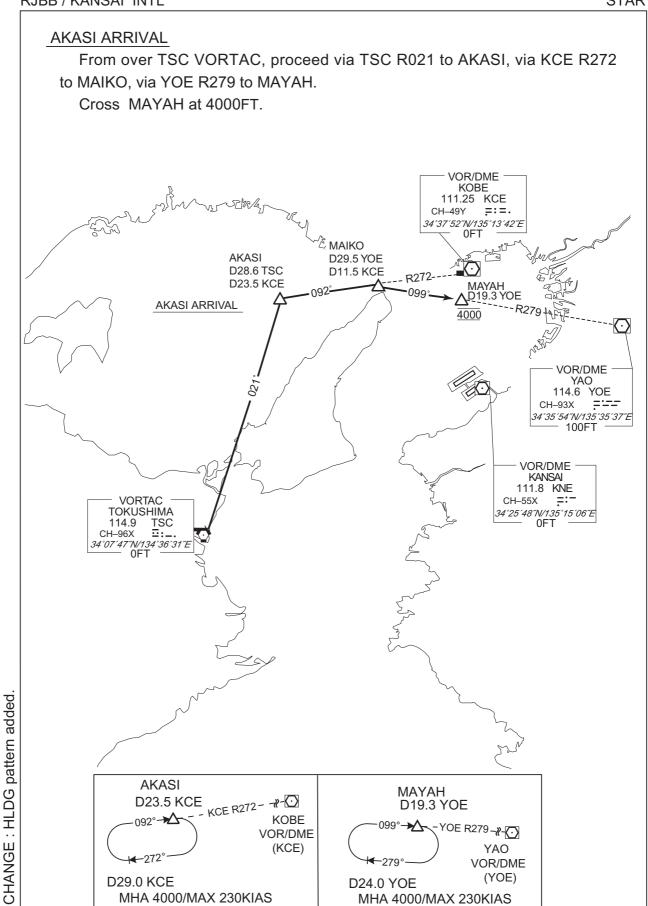
RWY24L

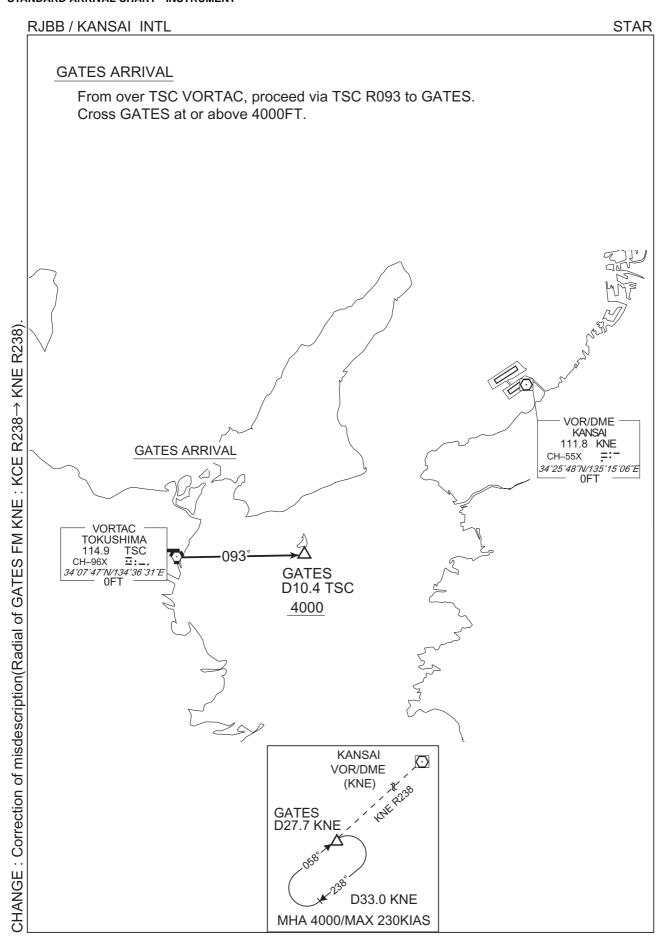
| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | Speed | Vertical | Navigation |
|--------|------------|------------|------|----------------|-----------|----------|-----------|----------|--------|----------|---------------|
| Number | Descriptor | Identifier | Over | °M(°T) | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | VA | _ | _ | 238 (230.9) | -7.4 | _ | _ | +500 | _ | _ | RNAV1 |
| 002 | DF | B4L10 | Υ | _ | -7.4 | _ | _ | _ | _ | _ | RNAV1 |
| 003 | DF | BB430 | _ | _ | -7.4 | _ | R | _ | -210 | _ | RNAV1 |
| 004 | TF | DAISY | _ | 008 (000.2) | -7.4 | 5.4 | _ | +6000 | _ | _ | RNAV1 |
| 005 | TF | JULIA | _ | 279 (271.4) | -7.4 | 4.0 | _ | +8000 | _ | _ | RNAV1 |
| 006 | TF | LINDA | _ | 279 (271.4) | -7.4 | 5.4 | _ | _ | _ | _ | RNAV1 |
| 007 | TF | GLORY | _ | 255 (247.2) | -7.4 | 6.9 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL **RNAV TRANSITION HIBIS TRANSITION** RNAV1 Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required. Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 VAR 7° W(2009) **GLORY** 342736.0N 1344400.6E HIBIS 341454.8N 1340730.0E HIBIS TRANSITION **HIBIS TRANSITION** Critical DME From GLORY, to HIBIS. DME GAP

| Serial Number | Path Descriptor | Waypoint Identifier | , , | | Magnetic Variation | | Turn Direction | | • | | Navigation Specification |
|------------------|--------------------|------------------------|-----|----------------|-----------------------|------|-------------------|---|---|---|-----------------------------|
| 001 | IF | GLORY | _ | _ | -7.2 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | HIBIS | _ | 254 (247.3) | -7.2 | 32.7 | _ | _ | _ | _ | RNAV1 |

RJBB / KANSAI INTL STAR





RJBB / KANSAI INTL STAR

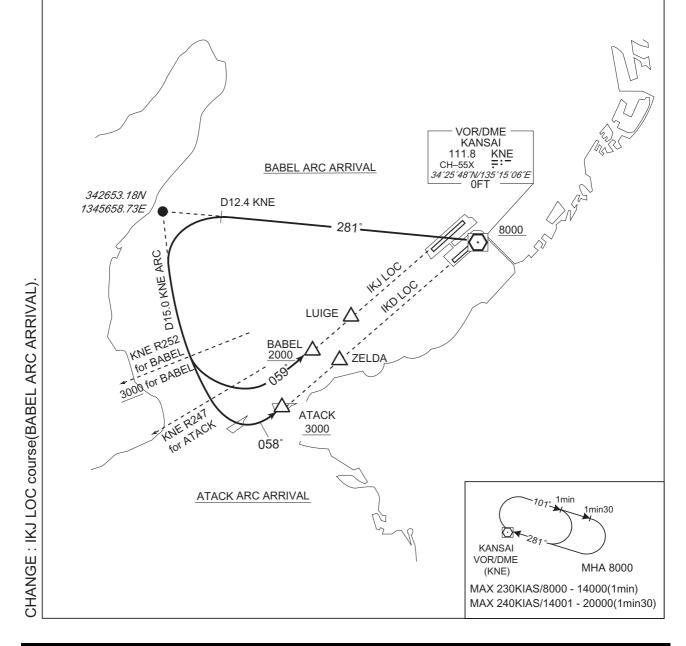
ATACK ARC ARRIVAL

From over KNE VOR/DME, proceed via KNE R281, turn left via KNE 15.0DME counterclockwise ARC, turn left to intercept and proceed via IKD-LOC to ATACK. Cross KNE VOR/DME at or above 8000FT, cross ATACK at or above 3000FT.

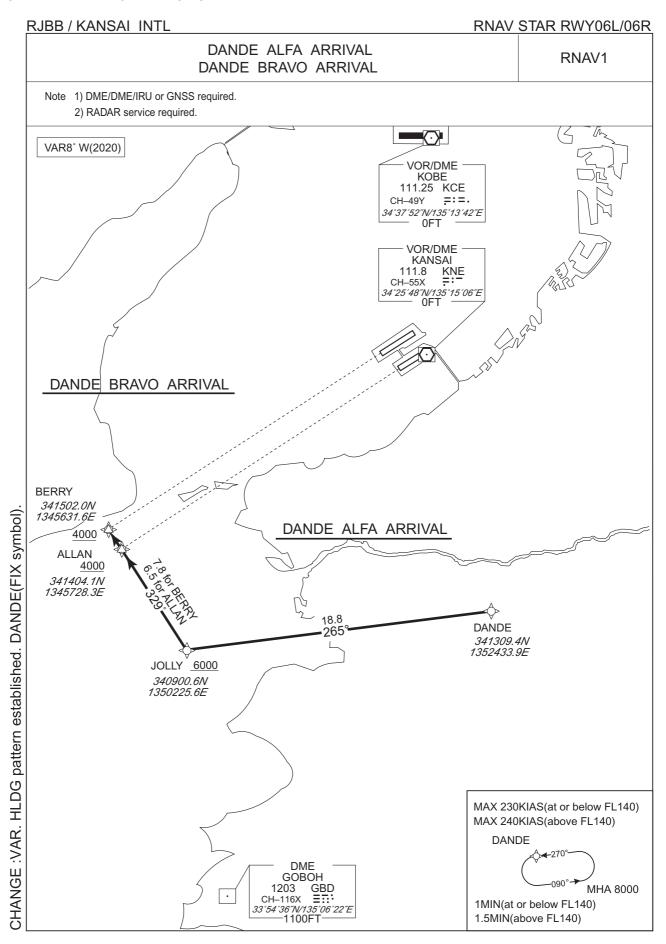
BABEL ARC ARRIVAL

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

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



RJBB / KANSAI INTL **STAR** MAYAH ARC ARRIVAL From over KNE VOR/DME, proceed via KNE R283, turn right via KNE 10.9DME clockwise ARC to MAYAH. Cross KNE VOR/DME at or above 8000FT, cross MAYAH at 4000FT. **MAYAH** 4000 O'GO'STER PE VOR/DME KANSAI KNE F: 111.8 34°25′48″N/135°15′06″E OFT MAYAH ARC ARRIVAL 342654.32N 1350200.33E 283 D8.0 KNE 8000 CHANGE: HLDG pattern added MAYAH D19.3 YOE 1min30 .-YOE R279-**∦**.. KANSAI VOR/DME VOR/DME MHA 8000 YAO (KNE) D24.0 YOE 114.6 YOE MAX 230KIAS/8000 - 14000(1min) CH-93X MHA 4000 34°35′54″N/135°35′37″E 100FT MAX 240KIAS/14001 - 20000(1min30) MAX 230KIAS



RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

DANDE ALFA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | | | | Turn Direction | Altitude (FT) | Speed (KIAS) | | |
|------------------|--------------------|------------------------|-------------|----------------|------|------|-------------------|------------------|-----------------|---|-------|
| 001 | IF | DANDE | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | JOLLY | - | 265 (257.3) | -7.8 | 18.8 | _ | +6000 | 1 | _ | RNAV1 |
| 003 | TF | ALLAN | _ | 329 (321.0) | -7.8 | 6.5 | - | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | DANDE | 270 (262.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |

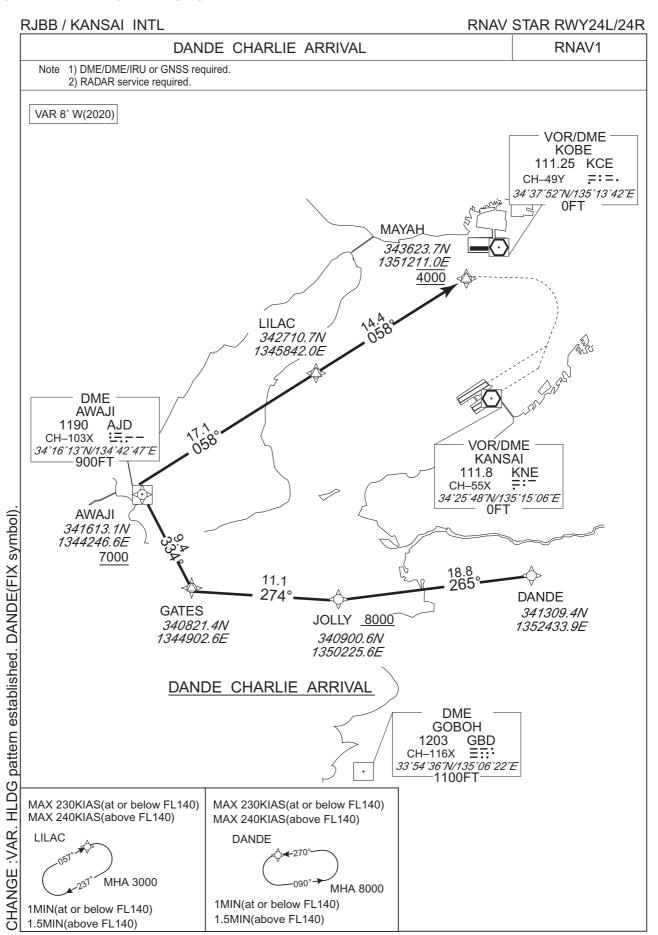
DANDE BRAVO ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|----------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | DANDE | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | JOLLY | _ | 265 (257.3) | -7.8 | 18.8 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | BERRY | _ | 329 (321.0) | -7.8 | 7.8 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Time | Outbound Distance (NM) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|
| Hold | DANDE | 270 (262.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |



RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

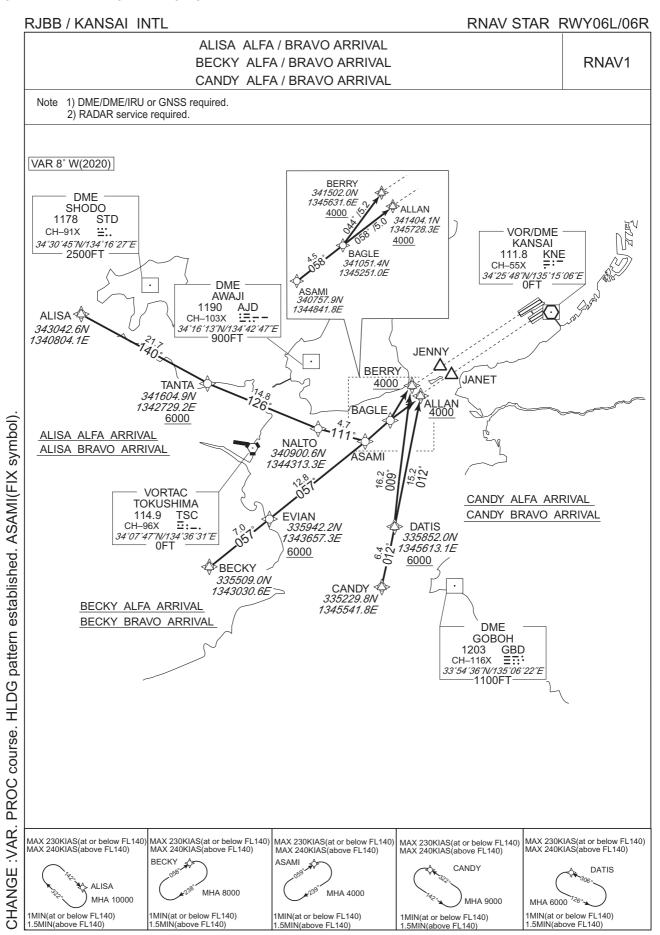
DANDE CHARLIE ARRIVAL

From DANDE, to JOLLY at or above 8000FT, to GATES, to AWAJI at or above 7000FT, to LILAC, to MAYAH at 4000FT.

| Critical DME | OKT: 16.0NM to JOLLY - 14.0NM to JOLLY TZT: 14.0NM to JOLLY - 13.0NM to JOLLY 4.0NM to JOLLY - 8.0NM to GATES 7.0NM to GATES - GATES 8.0NM to AWAJI - 11.0NM to LILAC | GBD: DANDE - 8.0NM to GATES 7.0NM to GATES - GATES 8.0NM to AWAJI - MAYAH |
|-----------------------|---|---|
| DME GAP | 8.0NM to GATES - 7.0NM to GATES | GATES - 8.0NM to AWAJI |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropr | iate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | DANDE | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | JOLLY | _ | 265 (257.3) | -7.8 | 18.8 | _ | +8000 | _ | _ | RNAV1 |
| 003 | TF | GATES | _ | 274 (266.7) | -7.8 | 11.1 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | AWAJI | _ | 334 (326.6) | -7.8 | 9.4 | _ | +7000 | _ | _ | RNAV1 |
| 005 | TF | LILAC | _ | 058 (050.1) | -7.8 | 17.1 | _ | _ | _ | _ | RNAV1 |
| 006 | TF | MAYAH | _ | 058 (050.3) | -7.8 | 14.4 | _ | 4000 | _ | _ | 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 | DANDE | 270 (262.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |



RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

ALISA ALFA ARRIVAL

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

| Critical DME | AJD: 12.0NM to NALTO - NALTO KNE: 1.7NM to ASAMI - 4.0NM to ALLAN |
|-----------------------|--|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | ALISA | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 140 (132.3) | -7.8 | 21.7 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | NALTO | _ | 126 (118.4) | -7.8 | 14.8 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | ASAMI | _ | 111 (103.0) | -7.8 | 4.7 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | _ | _ | _ | _ | RNAV1 |
| 006 | TF | ALLAN | _ | 058 (049.9) | -7.8 | 5.0 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Time | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | ALISA | 142 (134.0) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 10000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

ALISA BRAVO ARRIVAL

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

| Critical DME | AJD: 12.0NM to NALTO - NALTO KNE: 1.7NM to ASAMI - 4.2NM to BERRY |
|-----------------------|--|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial | Path | Waypoint | Fly | Course | Magnetic | Distance | Turn | Altitude | Speed | Vertical | Navigation |
|--------|------------|------------|------|----------------|-----------|----------|-----------|----------|--------|----------|---------------|
| Number | Descriptor | Identifier | Over | [°M(°T)] | Variation | (NM) | Direction | (FT) | (KIAS) | Angle | Specification |
| 001 | IF | ALISA | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 140 (132.3) | -7.8 | 21.7 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | NALTO | _ | 126 (118.4) | -7.8 | 14.8 | - | 1 | ı | _ | RNAV1 |
| 004 | TF | ASAMI | _ | 111 (103.0) | -7.8 | 4.7 | _ | - | _ | _ | RNAV1 |
| 005 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | _ | _ | _ | _ | RNAV1 |
| 006 | TF | BERRY | _ | 044 (036.0) | -7.8 | 5.2 | _ | +4000 | _ | _ | 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 | ALISA | 142 (134.0) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 10000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

BECKY ALFA ARRIVAL

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

| Critical DME | KNE: ASAMI - 4.0NM to ALLAN |
|-----------------------|---|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BECKY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | EVIAN | _ | 057 (049.5) | -7.8 | 7.0 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | ASAMI | _ | 057 (049.6) | -7.8 | 12.8 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | ı | 1 | _ | _ | RNAV1 |
| 005 | TF | ALLAN | _ | 058 (049.9) | -7.8 | 5.0 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course 'M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BECKY | 058 (050.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

BECKY BRAVO ARRIVAL

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

| Critical DME | KNE: ASAMI - 4.2NM to BERRY |
|-----------------------|---|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BECKY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | EVIAN | _ | 057 (049.5) | -7.8 | 7.0 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | ASAMI | _ | 057 (049.6) | -7.8 | 12.8 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | _ | 1 | _ | _ | RNAV1 |
| 005 | TF | BERRY | _ | 044 (036.0) | -7.8 | 5.2 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course 'M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BECKY | 058 (050.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

CANDY ALFA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | | |
|------------------|--------------------|------------------------|-------------|----------------|-----------------------|------|-------------------|------------------|-----------------|---|-------|
| 001 | IF | CANDY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | DATIS | _ | 012 (003.9) | -7.8 | 6.4 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | ALLAN | _ | 012 (003.9) | -7.8 | 15.2 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | CANDY | 322 (313.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 9000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DATIS | 306 (298.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 6000 | _ | -230(-14000) -240(+14001) | RNAV1 |

CANDY BRAVO ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | | • | | Turn Direction | Altitude (FT) | Speed (KIAS) | | |
|------------------|--------------------|------------------------|-------------|----------------|------|------|-------------------|------------------|-----------------|---|-------|
| 001 | IF | CANDY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | DATIS | _ | 012 (003.9) | -7.8 | 6.4 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | BERRY | _ | 009 (000.9) | -7.8 | 16.2 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course 'M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | CANDY | 322 (313.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 9000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DATIS | 306 (298.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 6000 | | -230(-14000) -240(+14001) | RNAV1 |

RNAV STAR RWY24L/24R RJBB / KANSAI INTL ALISA CHARLIE ARRIVAL RNAV1 BECKY CHARLIE ARRIVAL CANDY CHARLIE ARRIVAL 1) DME/DME/IRU or GNSS required. 2) RADAR service required. VAR 8° W(2020) VOR/DME **KOBE** DME 111.25 KCE SHODO CH-49Y STD 34°37′52″N/135°13′42″E — 0FT 1178 MAYAH 1058° CH-91X ≝:. 343623.7N DME 1351211.0E 34°30′45″N/134°16′27″E 2500FT AWAJI 4000 1190 AJD CH-103X 34°16′13″N/134°42′47″E ALISA 🦃 LILAC 900FT 342710.7N 343042.6N 1345842.0E 1340804.1E .05⁸ 12.6 VOR/DME AWAJI ALISA CHARLIE ARRIVAL **KANSAI** 341613.1N ŤANTA KNE 111.8 1344246.6E 341604.9N CH-55X 7000 1342729.2E 34°25′48″N/135°15′06″E ——— 0FT **NALTO** 340900.6N 1344313.3E Course FM CANDY to NALTO. HLDG pattern established **VORTAC** CANDY CHARLIE ARRIVAL TOKUSHIMA 114.9 TSC CH-96X 34°07′47″N/134°36′31″E OFT BECKY CHARLIE ARRIVAL DME **GOBOH** BECKY C 1203 GBD 335509.0N CANDY CH–116X **Ξ∷:** 33°54′36″N/135°06′22″E 1343030.6E -335229.8N 1345541.8E 1100FT MAX 230KIAS(at or below FL140) CHANGE :VAR. MAX 240KIAS (above FL140) MAX 240KIAS (above FL140) MAX 240KIAS (above FL140) MAX 240KIAS (above FL140) **BECKY** LILAC CANDY ALISA MHA 8000 MHA 3000 MHA 10000 MHA 9000 1MIN(at or below FL140) 1MIN(at or below FL140) 1MIN(at or below FL140) 1MIN(at or below FL140) 1.5MIN(above FL140) 1.5MIN(above FL140) 1.5MIN(above FL140) 1.5MIN(above FL140)

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ALISA CHARLIE ARRIVAL

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

Critical DME KNE : 4.7NM to AWAJI - AWAJI
TZT : AWAJI - 11.0NM to LILAC
GBD : AWAJI - MAYAH

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | ALISA | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 140 (132.3) | -7.8 | 21.7 | _ | _ | _ | _ | RNAV1 |
| 003 | TF | AWAJI | _ | 097 (089.3) | -7.8 | 12.6 | _ | +7000 | _ | _ | RNAV1 |
| 004 | TF | LILAC | _ | 058 (050.1) | -7.8 | 17.1 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 058 (050.3) | -7.8 | 14.4 | - | 4000 | _ | _ | RNAV1 |

| Pa | ath | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|----|-----|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Н | old | ALISA | 142 (134.0) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 10000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Н | old | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |

BECKY CHARLIE ARRIVAL

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

| Critical DME | GBD: 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH TZT: AWAJI - 11.0NM to LILAC |
|-----------------------|---|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BECKY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | NALTO | _ | 045 (037.2) | -7.8 | 17.4 | _ | _ | _ | _ | RNAV1 |
| 003 | TF | AWAJI | _ | 005 (357.1) | -7.8 | 7.2 | _ | +7000 | ı | _ | RNAV1 |
| 004 | TF | LILAC | _ | 058 (050.1) | -7.8 | 17.1 | _ | _ | - | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 058 (050.3) | -7.8 | 14.4 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course 'M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BECKY | 058 (050.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY CHARLIE ARRIVAL

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

Critical DME

GBD: 5.2NM to AWAJI - 4.2NM to AWAJI

AWAJI - MAYAH

KNE: 16.5NM to NALTO - NALTO

TZT: AWAJI - 11.0NM to LILAC

DME GAP

Inappropriate Navaids

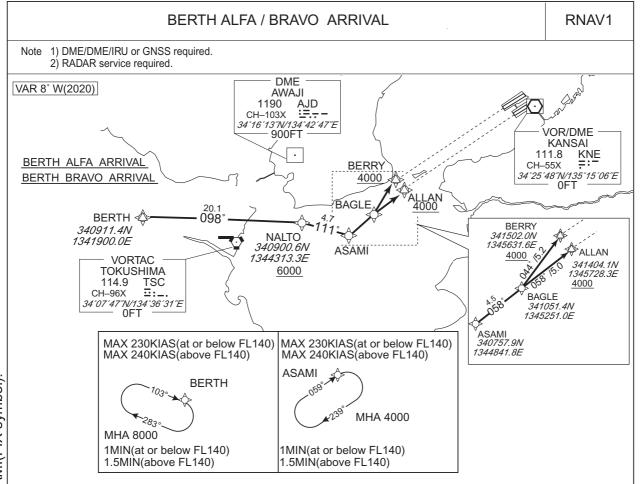
See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | CANDY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | NALTO | _ | 336 (328.0) | -7.8 | 19.5 | _ | _ | _ | _ | RNAV1 |
| 003 | TF | AWAJI | _ | 005 (357.1) | -7.8 | 7.2 | - | +7000 | _ | _ | RNAV1 |
| 004 | TF | LILAC | _ | 058 (050.1) | -7.8 | 17.1 | ı | - | ı | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 058 (050.3) | -7.8 | 14.4 | _ | 4000 | _ | _ | 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 | CANDY | 322 (313.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 9000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R



BERTH ALFA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BERTH | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | NALTO | _ | 098 (090.4) | -7.8 | 20.1 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | ASAMI | _ | 111 (103.0) | -7.8 | 4.7 | - | 1 | _ | _ | RNAV1 |
| 004 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | - | 1 | _ | _ | RNAV1 |
| 005 | TF | ALLAN | _ | 058 (049.9) | -7.8 | 5.0 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BERTH | 103 (095.4) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

BERTH BRAVO ARRIVAL

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

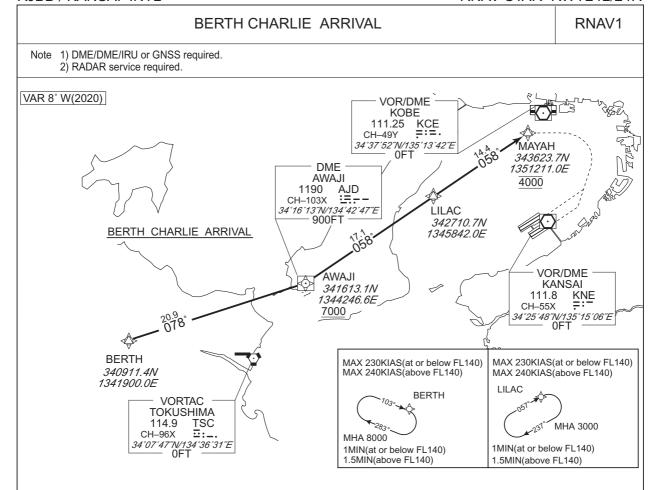
| Critical DME | AJD: 8.1NM to NALTO - 5.1NM to NALTO KNE: 1.7NM to ASAMI - 4.2NM to BERRY |
|-----------------------|--|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BERTH | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | NALTO | _ | 098 (090.4) | -7.8 | 20.1 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | ASAMI | _ | 111 (103.0) | -7.8 | 4.7 | ı | 1 | _ | _ | RNAV1 |
| 004 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | ı | 1 | _ | _ | RNAV1 |
| 005 | TF | BERRY | _ | 044 (036.0) | -7.8 | 5.2 | _ | +4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BERTH | 103 (095.4) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

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RNAV STAR RWY24L/24R



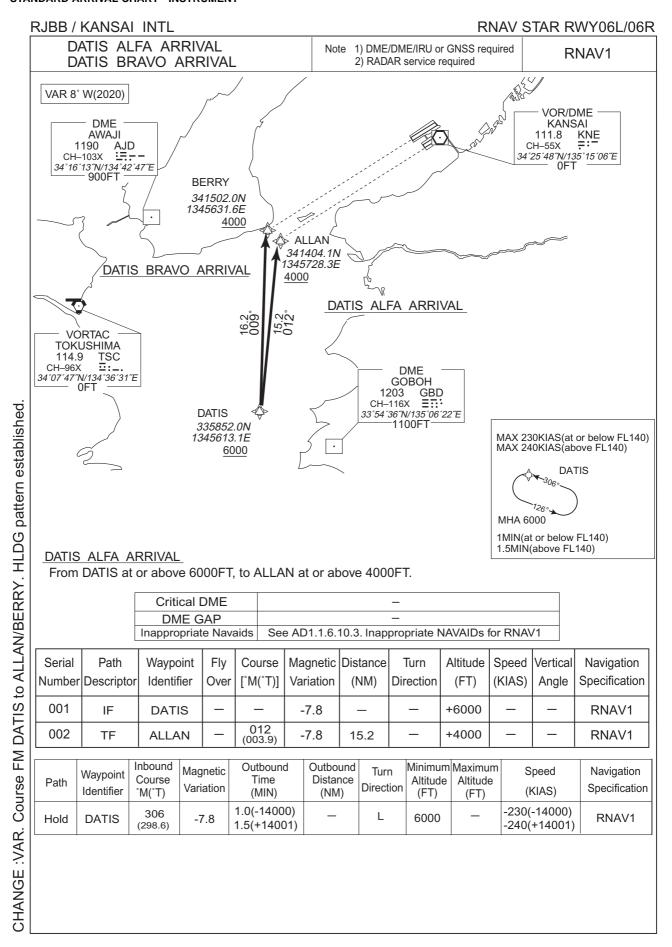
BERTH CHARLIE ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|-----------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BERTH | _ | _ | -7.8 | _ | - | _ | _ | _ | RNAV1 |
| 002 | TF | AWAJI | _ | 078 (070.2) | -7.8 | 20.9 | _ | +7000 | _ | _ | RNAV1 |
| 003 | TF | LILAC | _ | 058 (050.1) | -7.8 | 17.1 | - | _ | _ | _ | RNAV1 |
| 004 | TF | MAYAH | _ | 058 (050.3) | -7.8 | 14.4 | ı | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Time | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BERTH | 103 (095.4) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |



CHANGE :VAR. Course FM DATIS to BERRY. HLDG pattern established.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

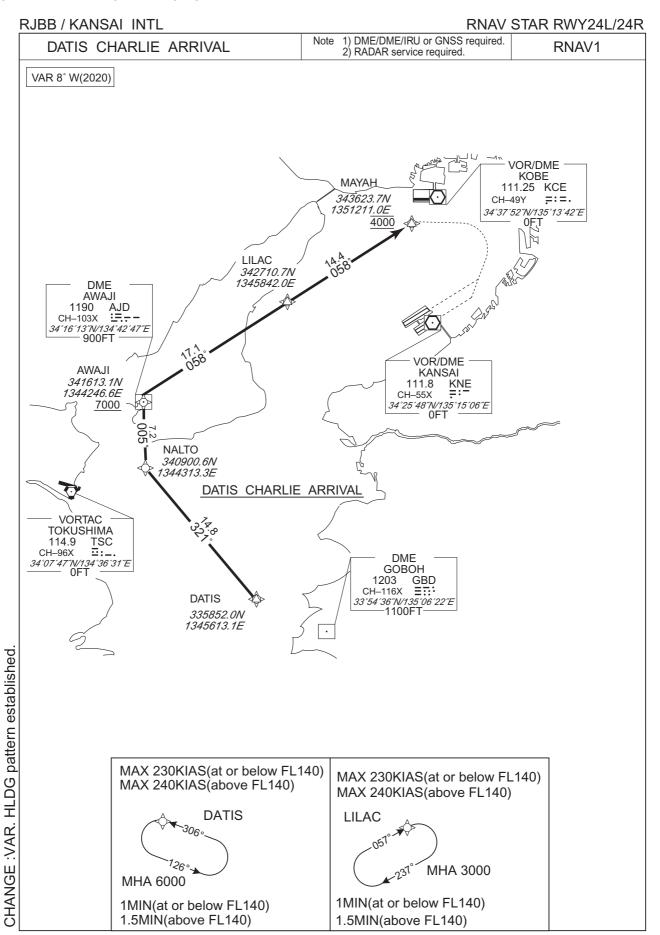
DATIS BRAVO ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | | Magnetic Variation | | Turn Direction | | ' | | Navigation Specification |
|------------------|--------------------|------------------------|-------------|----------------|-----------------------|------|-------------------|-------|---|---|-----------------------------|
| 001 | IF | DATIS | _ | _ | -7.8 | _ | _ | +6000 | _ | _ | RNAV1 |
| 002 | TF | BERRY | _ | 009 (000.9) | -7.8 | 16.2 | _ | +4000 | _ | _ | 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 | DATIS | 306 (298.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 6000 | _ | -230(-14000) -240(+14001) | RNAV1 |



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RNAV STAR RWY24L/24R

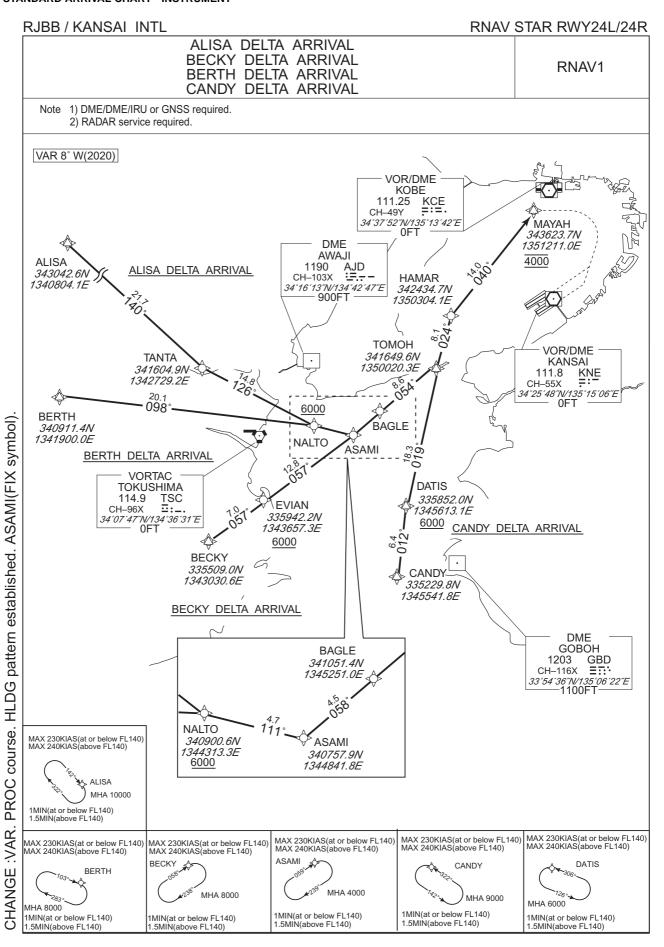
DATIS CHARLIE ARRIVAL

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

| Critical DME | GBD: 5.2NM to AWAJI - 4.2NM to AWAJI AWAJI - MAYAH TZT: AWAJI - 11.0NM to LILAC |
|-----------------------|---|
| DME GAP | - |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | DATIS | _ | _ | -7.8 | _ | _ | _ | - | _ | RNAV1 |
| 002 | TF | NALTO | _ | 321 (313.4) | -7.8 | 14.8 | _ | _ | _ | _ | RNAV1 |
| 003 | TF | AWAJI | _ | 005 (357.1) | -7.8 | 7.2 | _ | +7000 | - | _ | RNAV1 |
| 004 | TF | LILAC | _ | 058 (050.1) | -7.8 | 17.1 | 1 | _ | ١ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 058 (050.3) | -7.8 | 14.4 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | l Time | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | DATIS | 306 (298.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 6000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |



RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ALISA DELTA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|---------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | ALISA | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 140 (132.3) | -7.8 | 21.7 | - | _ | _ | _ | RNAV1 |
| 003 | TF | NALTO | _ | 126 (118.4) | -7.8 | 14.8 | _ | +6000 | _ | _ | RNAV1 |
| 004 | TF | ASAMI | _ | 111 (103.0) | -7.8 | 4.7 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | _ | _ | _ | _ | RNAV1 |
| 006 | TF | томон | _ | 054 (046.0) | -7.8 | 8.6 | _ | _ | _ | _ | RNAV1 |
| 007 | TF | HAMAR | _ | 024 (016.2) | -7.8 | 8.1 | _ | _ | _ | _ | RNAV1 |
| 800 | TF | MAYAH | _ | 040 (032.4) | -7.8 | 14.0 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course 'M('T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | ALISA | 142 (134.0) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 10000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

BECKY DELTA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BECKY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | EVIAN | _ | 057 (049.5) | -7.8 | 7.0 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | ASAMI | _ | 057 (049.6) | -7.8 | 12.8 | - | _ | _ | _ | RNAV1 |
| 004 | TF | BAGLE | - | 058 (049.9) | -7.8 | 4.5 | 1 | _ | _ | ı | RNAV1 |
| 005 | TF | томон | - | 054 (046.0) | -7.8 | 8.6 | 1 | _ | _ | - | RNAV1 |
| 006 | TF | HAMAR | - | 024 (016.2) | -7.8 | 8.1 | 1 | _ | _ | - | RNAV1 |
| 007 | TF | MAYAH | _ | 040 (032.4) | -7.8 | 14.0 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BECKY | 058 (050.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

BERTH DELTA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BERTH | _ | _ | -7.8 | _ | - | _ | _ | _ | RNAV1 |
| 002 | TF | NALTO | _ | 098 (090.4) | -7.8 | 20.1 | - | +6000 | _ | _ | RNAV1 |
| 003 | TF | ASAMI | _ | 111 (103.0) | -7.8 | 4.7 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | BAGLE | _ | 058 (049.9) | -7.8 | 4.5 | - | _ | _ | _ | RNAV1 |
| 005 | TF | томон | _ | 054 (046.0) | -7.8 | 8.6 | 1 | _ | _ | _ | RNAV1 |
| 006 | TF | HAMAR | _ | 024 (016.2) | -7.8 | 8.1 | _ | _ | _ | _ | RNAV1 |
| 007 | TF | MAYAH | _ | 040 (032.4) | -7.8 | 14.0 | _ | 4000 | _ | _ | 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 | BERTH | 103 (095.4) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY DELTA ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | CANDY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | DATIS | _ | 012 (003.9) | -7.8 | 6.4 | _ | +6000 | _ | _ | RNAV1 |
| 003 | TF | томон | _ | 019 (010.7) | -7.8 | 18.3 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | HAMAR | _ | 024 (016.2) | -7.8 | 8.1 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 040 (032.4) | -7.8 | 14.0 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | CANDY | 322 (313.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 9000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DATIS | 306 (298.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 6000 | _ | -230(-14000) -240(+14001) | RNAV1 |

RJBB / KANSAI INTL RNAV STAR RWY24L/24R ALISA ECHO ARRIVAL BECKY ECHO ARRIVAL RNAV1 BERTH ECHO ARRIVAL CANDY ECHO ARRIVAL 1) DME/DME/IRU or GNSS required 2) RADAR service required VAR 8° W(2020) VOR/DME **KOBE** 111.25 KCE CH-49Y =:= 34°37′52″N/135°13′42″E 0FT DMF SHODO MAIKO 1178 STD D 343639.7N CH-91X ≝:. 1345949.1E 34°30′45″N/134°16′27″E **AKASI** 12.0 10.2 2500FT 092 343522.7N 099 1344518.1E **MAYAH** 343623.7N 1351211.0E ALISA 4000 343042.6N 1340804.1E 1 Sh ALISA ECHO ARRIVAL **TANTA** VOR/DME 341604.9N **KANSAI** 1342729.2E Course FM AKASI to MAIKO . HLDG pattern established 111.8 KNE 7000 BERTH ECHO ARRIVAL CH-55X DME 34°25′48″N/135°15′06″E **AWAJI** AJD 1190 CH-103X 82 34°16′13″N/134°42′47″E **BERTH** 900FT 340911.4N 1341900.0E **BECKY ECHO ARRIVAL** CANDY ECHO ARRIVAL **VORTAC** DMF **TOKUSHIMA GOBOH**



:VAR

CHANGE

BERTH MHA 8000 1MIN(at or below FL140)

1.5MIN(above FL140)

BECKY

335509.0N

1343030.6E

114.9

CH-96X 34°07′47″N/<u>13</u>4°36′31″E

TSC

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

1MIN(at or below FL140)

1.5MIN(above FL140)

MHA 8000

CANDY 335229.8N 1345541.8E

> MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) AKASI MHA 5000 1MIN(at or below FL140) 1.5MIN(above FL140)

1203 GBD CH-116X **ET::**

33°54′36″N/135°06′22″E 1100FT

MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) CANDY MHA 9000 1MIN(at or below FL140) 1.5MIN(above FL140)

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

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ALISA ECHO ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | ALISA | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 140 (132.3) | -7.8 | 21.7 | _ | +7000 | _ | _ | RNAV1 |
| 003 | TF | AKASI | _ | 045 (037.2) | -7.8 | 24.3 | - | _ | _ | _ | RNAV1 |
| 004 | TF | MAIKO | - | 092 (083.8) | -7.8 | 12.0 | ı | _ | _ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 099 (091.4) | -7.8 | 10.2 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | ALISA | 142 (134.0) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 10000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKASI | 092 (083.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 5000 | _ | -230(-14000) -240(+14001) | RNAV1 |

BECKY ECHO ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BECKY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 001 (353.2) | -7.8 | 21.1 | _ | +7000 | _ | _ | RNAV1 |
| 003 | TF | AKASI | _ | 045 (037.2) | -7.8 | 24.3 | _ | - | _ | _ | RNAV1 |
| 004 | TF | MAIKO | _ | 092 (083.8) | -7.8 | 12.0 | _ | ı | _ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 099 (091.4) | -7.8 | 10.2 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BECKY | 058 (050.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKASI | 092 (083.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 5000 | _ | -230(-14000) -240(+14001) | RNAV1 |

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

BERTH ECHO ARRIVAL

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

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

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-----------------------------|
| 001 | IF | BERTH | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 053 (045.5) | -7.8 | 9.8 | _ | +7000 | _ | _ | RNAV1 |
| 003 | TF | AKASI | _ | 045 (037.2) | -7.8 | 24.3 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | MAIKO | _ | 092 (083.8) | -7.8 | 12.0 | _ | _ | _ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 099 (091.4) | -7.8 | 10.2 | _ | 4000 | _ | _ | RNAV1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | BERTH | 103 (095.4) | -7.8 | 1.0(-14000) 1.5(+14001) | - | R | 8000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKASI | 092 (083.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 5000 | _ | -230(-14000) -240(+14001) | RNAV1 |

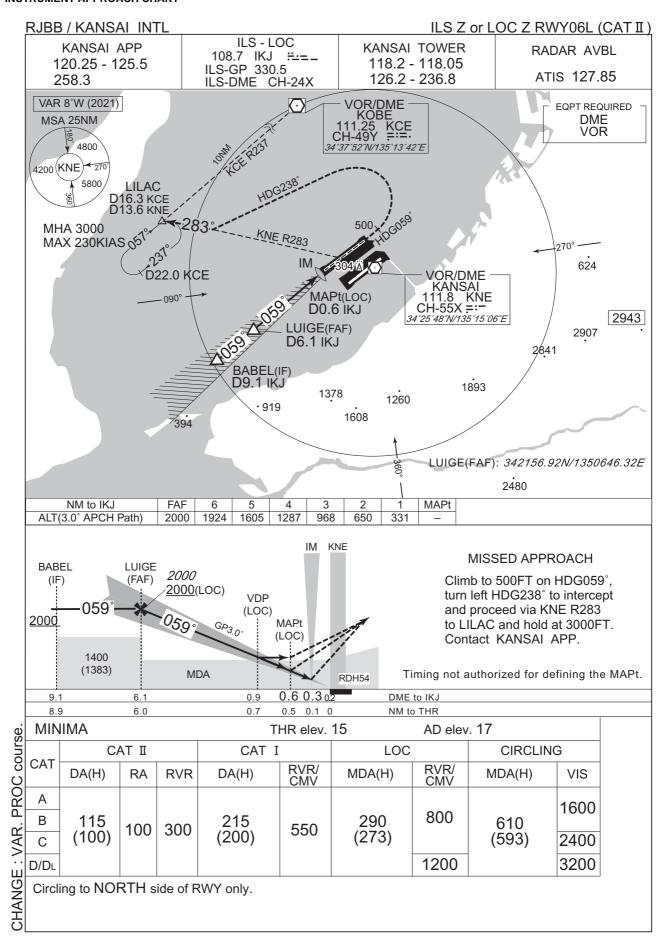
CANDY ECHO ARRIVAL

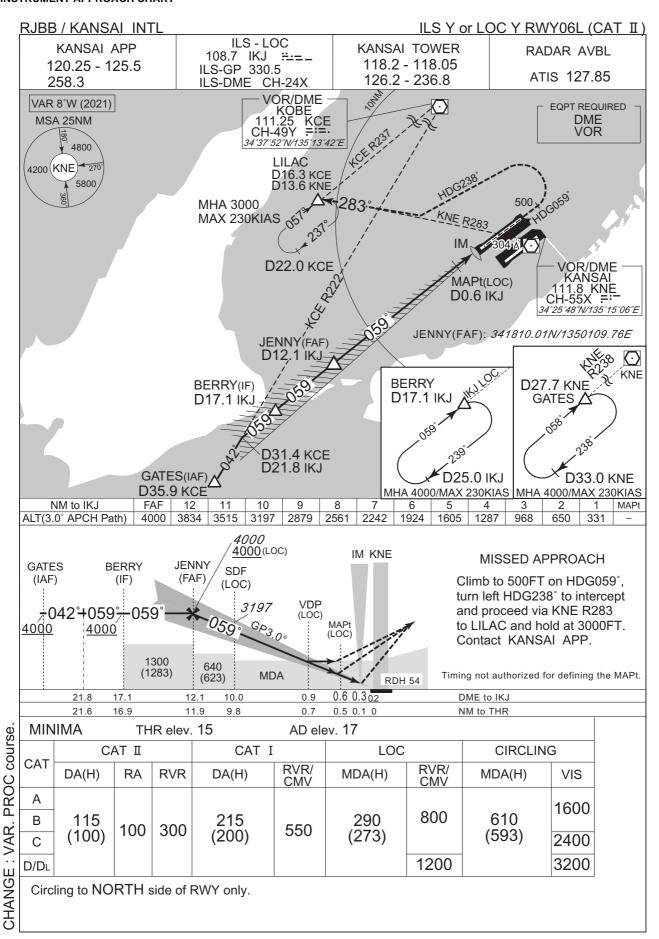
From CANDY, to TANTA at or above 7000FT, to AKASI, to MAIKO, to MAYAH at 4000FT.

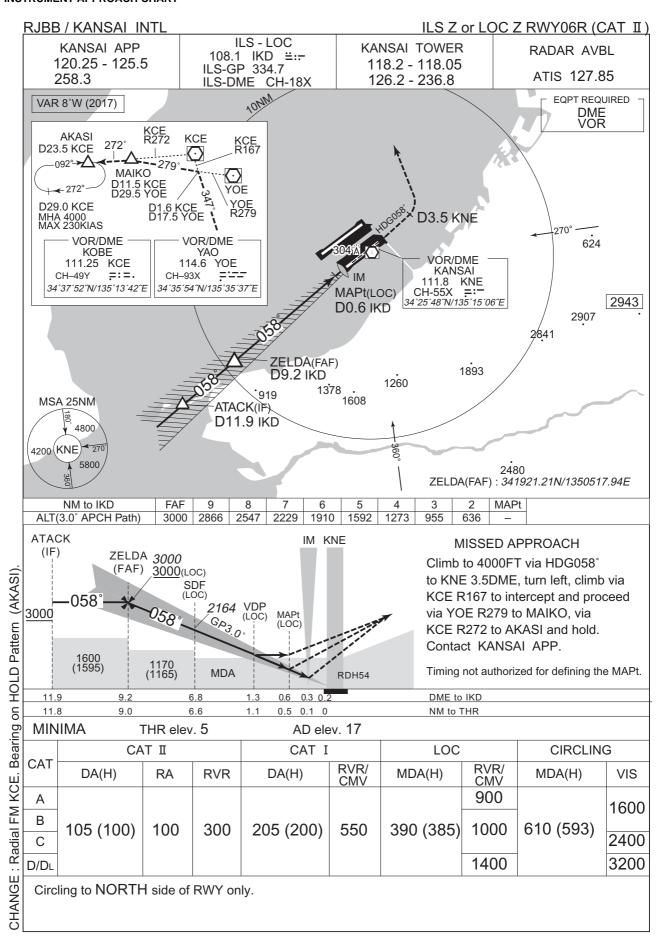
| Critical DME | KTE: TANTA - 18.3NM to AKASI AJD: 14.3NM to AKASI - 9.3NM to AKASI KNE: 8.0NM to MAYAH - MAYAH |
|-----------------------|--|
| DME GAP | _ |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1 |

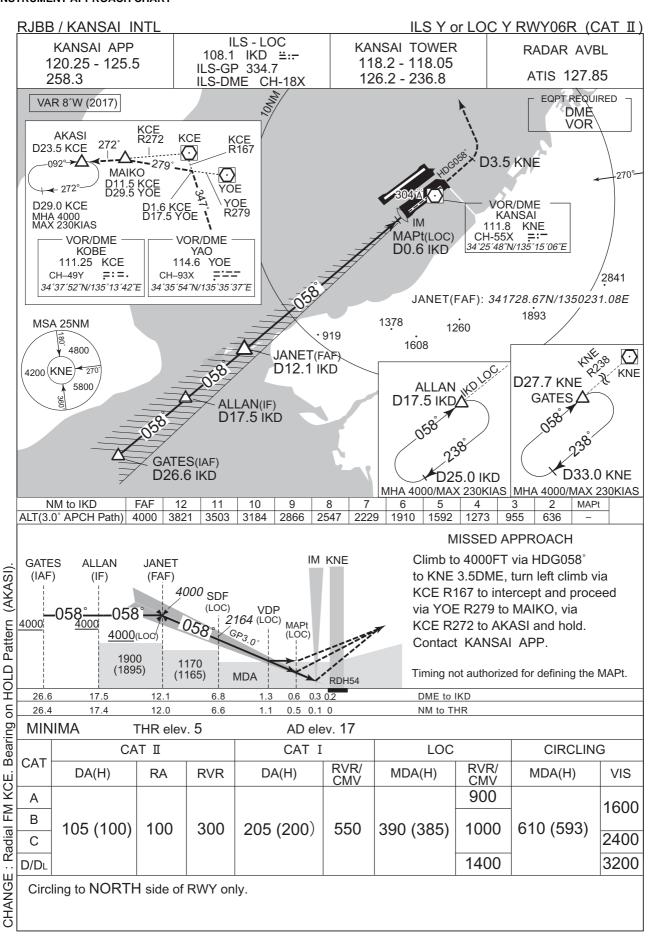
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course [°M(°T)] | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | |
|------------------|--------------------|------------------------|-------------|--------------------|-----------------------|------------------|-------------------|------------------|-----------------|-------------------|-------|
| 001 | IF | CANDY | _ | _ | -7.8 | _ | _ | _ | _ | _ | RNAV1 |
| 002 | TF | TANTA | _ | 323 (315.4) | -7.8 | 33.2 | _ | +7000 | _ | _ | RNAV1 |
| 003 | TF | AKASI | _ | 045 (037.2) | -7.8 | 24.3 | _ | _ | _ | _ | RNAV1 |
| 004 | TF | MAIKO | _ | 092 (083.8) | -7.8 | 12.0 | _ | ı | _ | _ | RNAV1 |
| 005 | TF | MAYAH | _ | 099 (091.4) | -7.8 | 10.2 | _ | 4000 | _ | _ | RNAV1 |

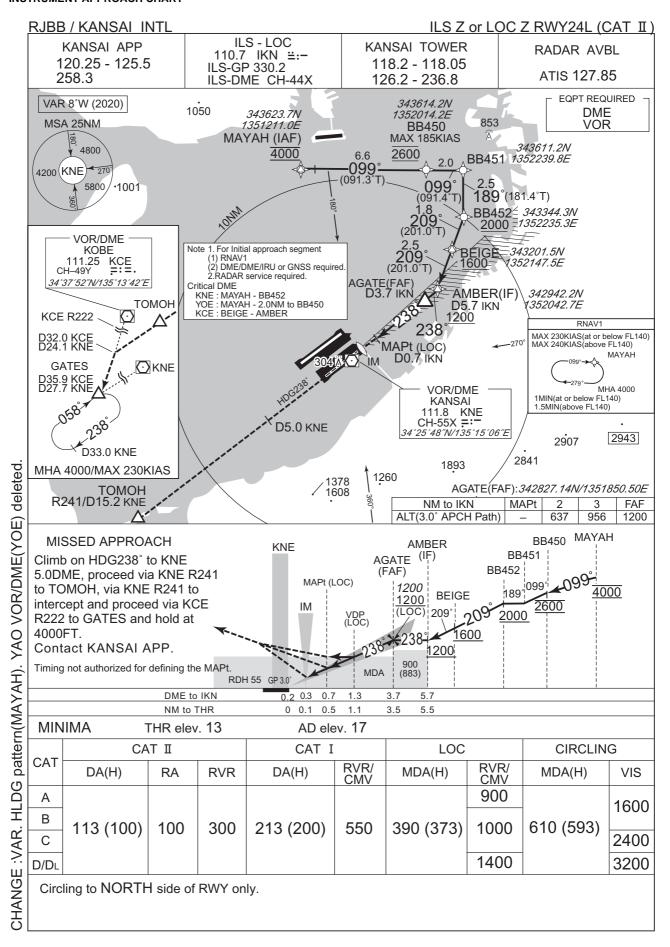
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | l Time | Outbound Distance (NM) | Turn Direction | Altitude | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | CANDY | 322 (313.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 9000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | AKASI | 092 (083.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 5000 | _ | -230(-14000) -240(+14001) | RNAV1 |

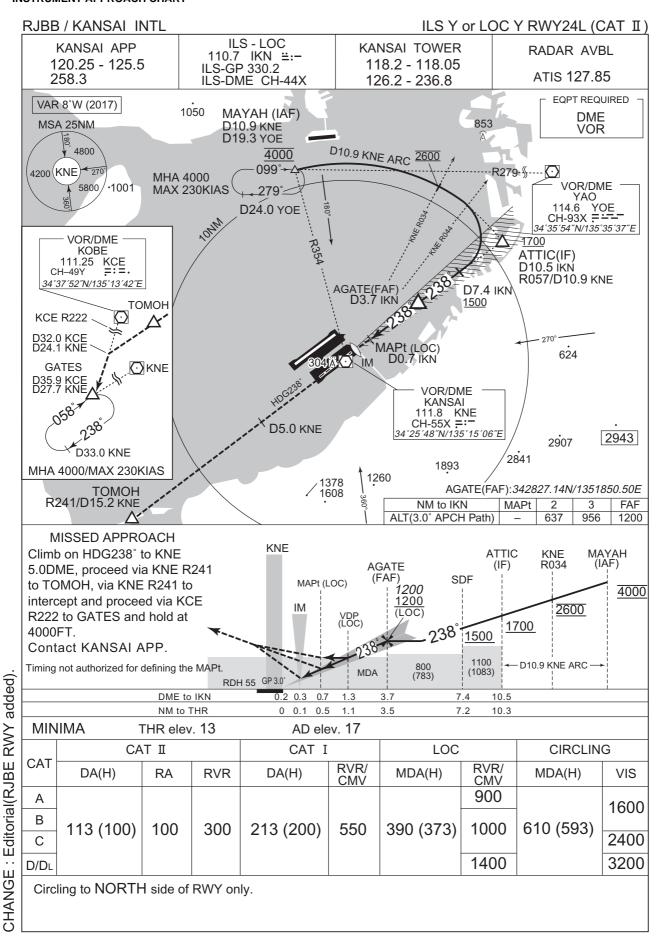


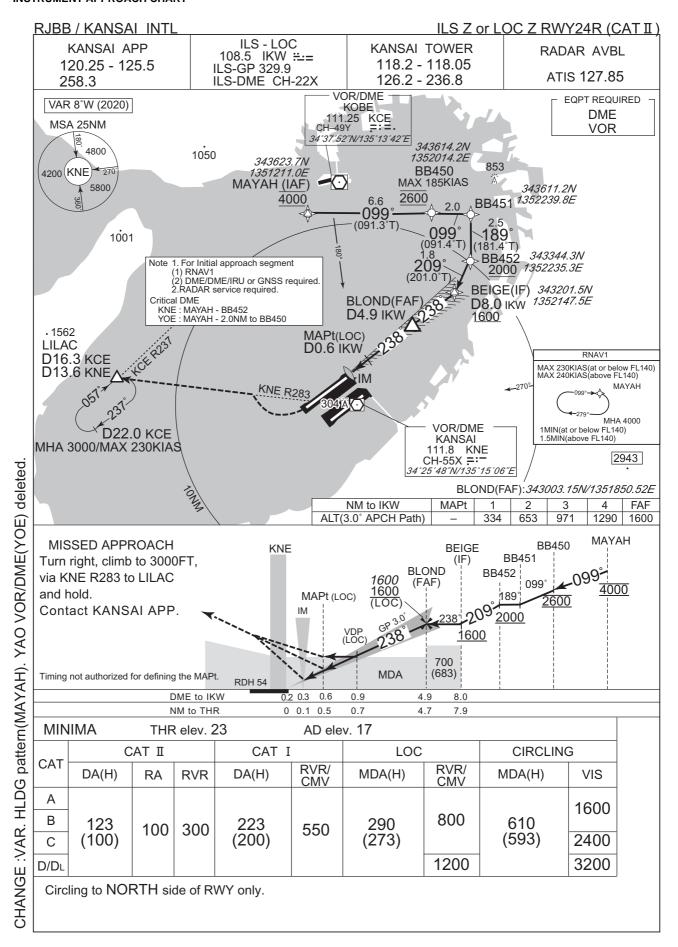


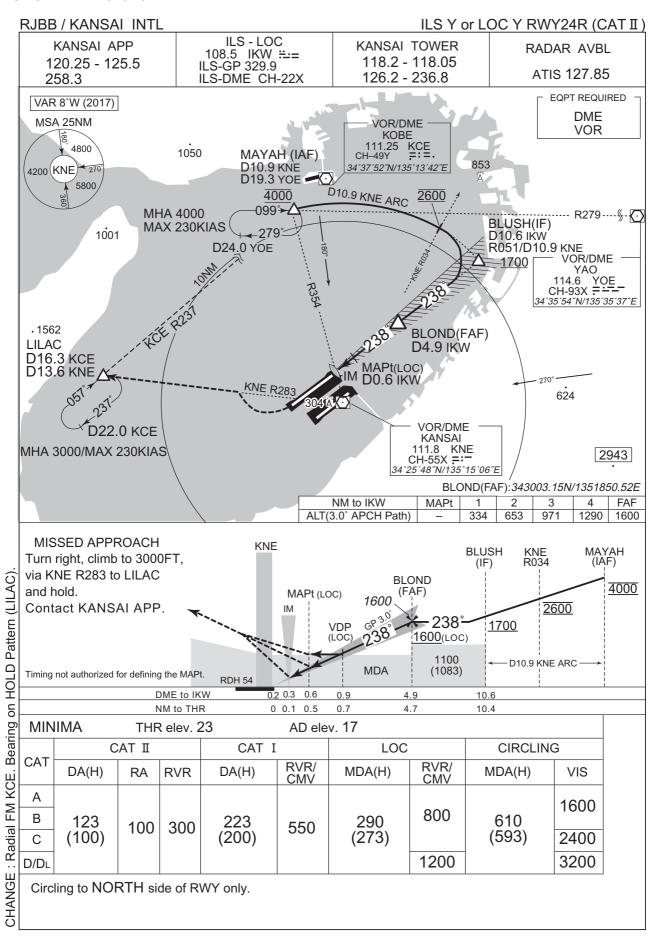


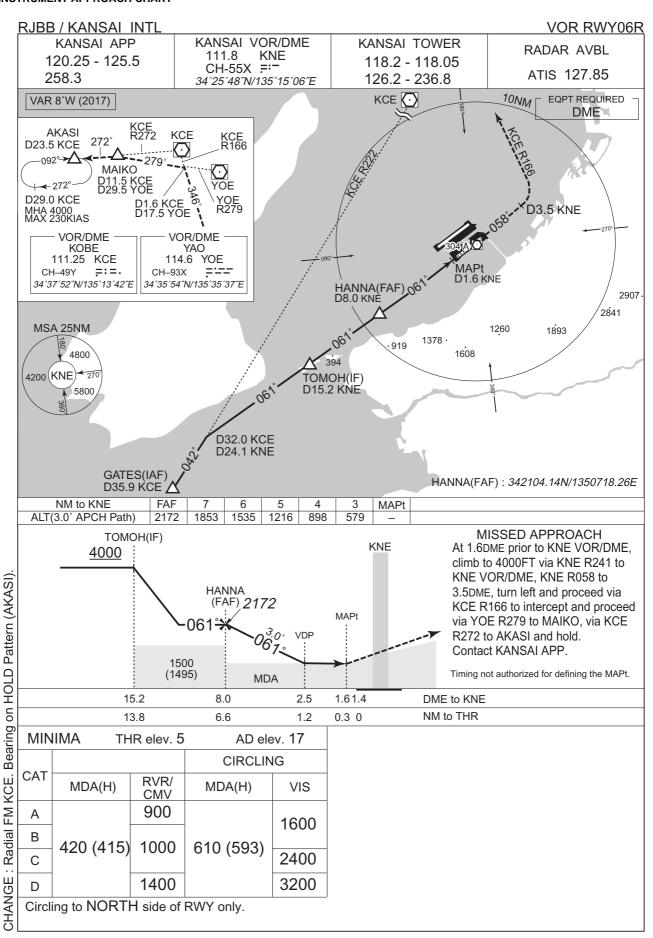


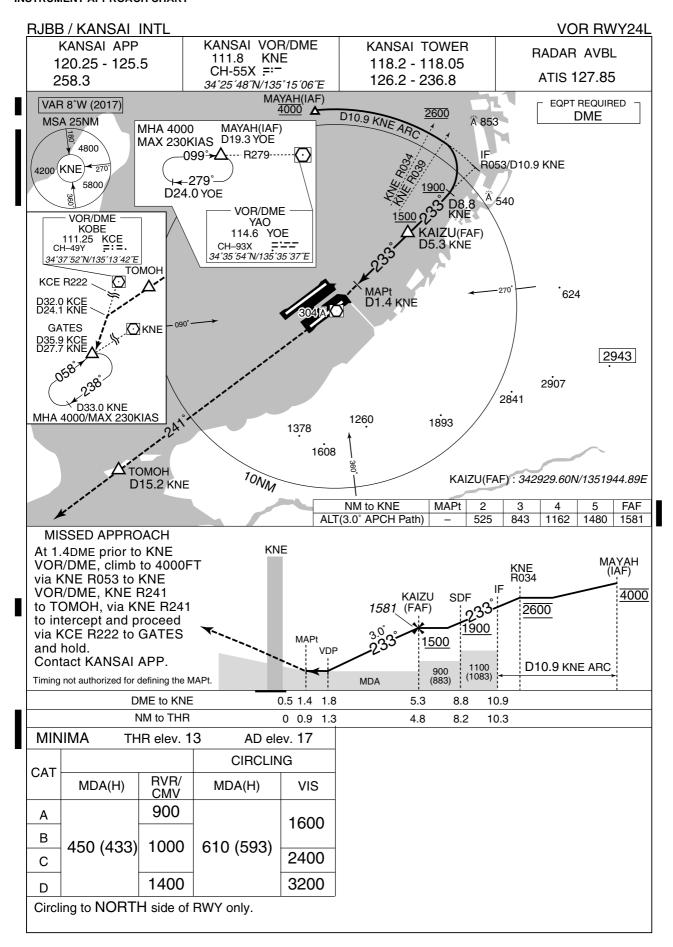


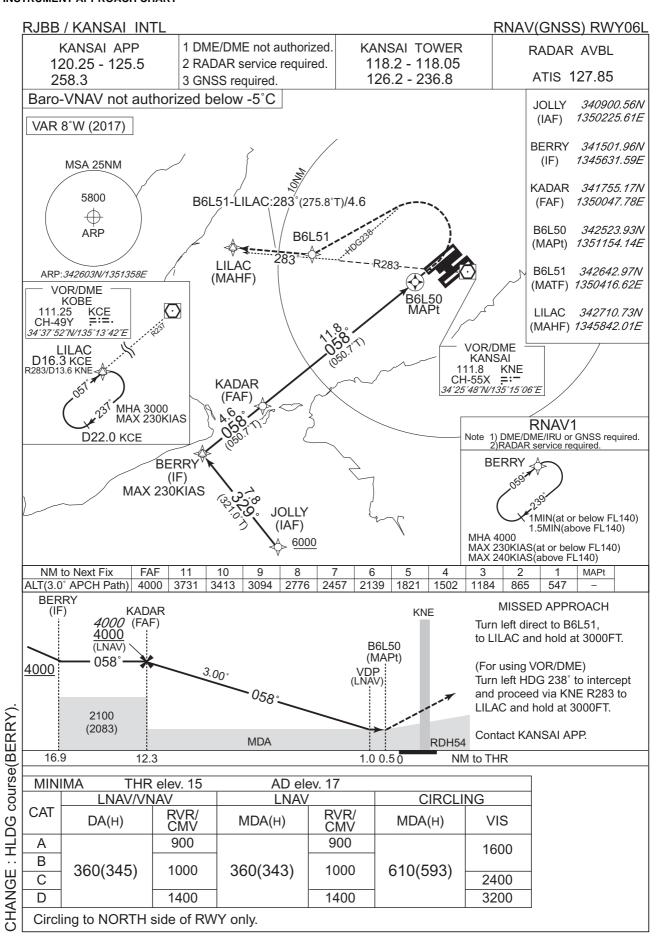


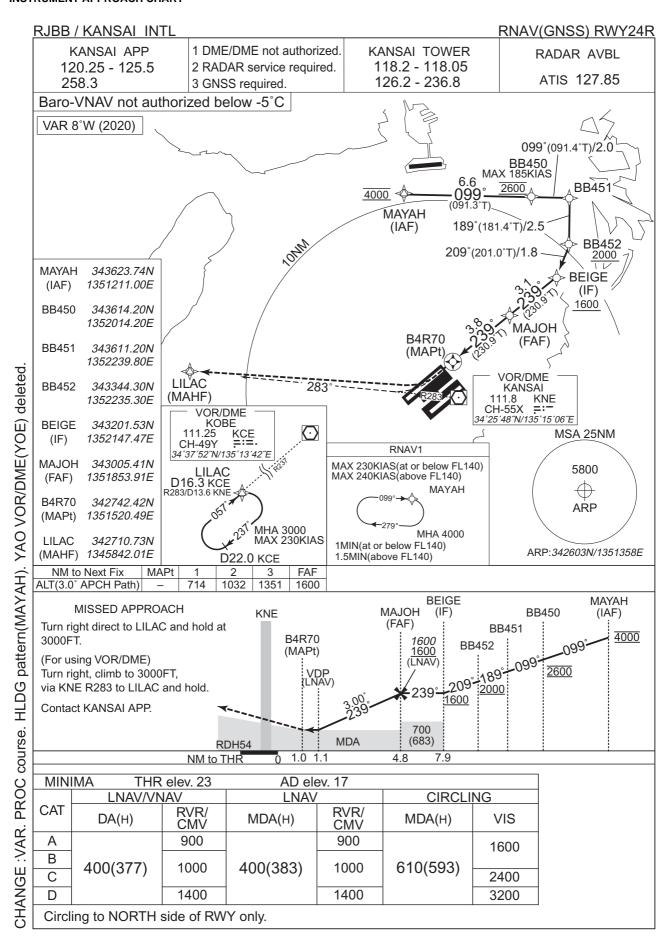


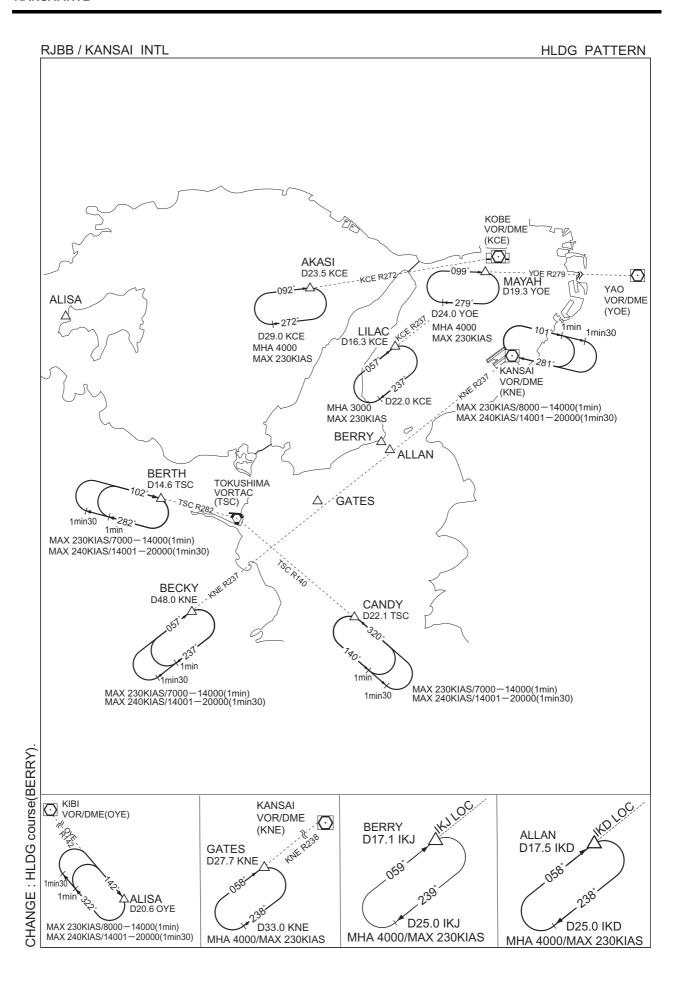


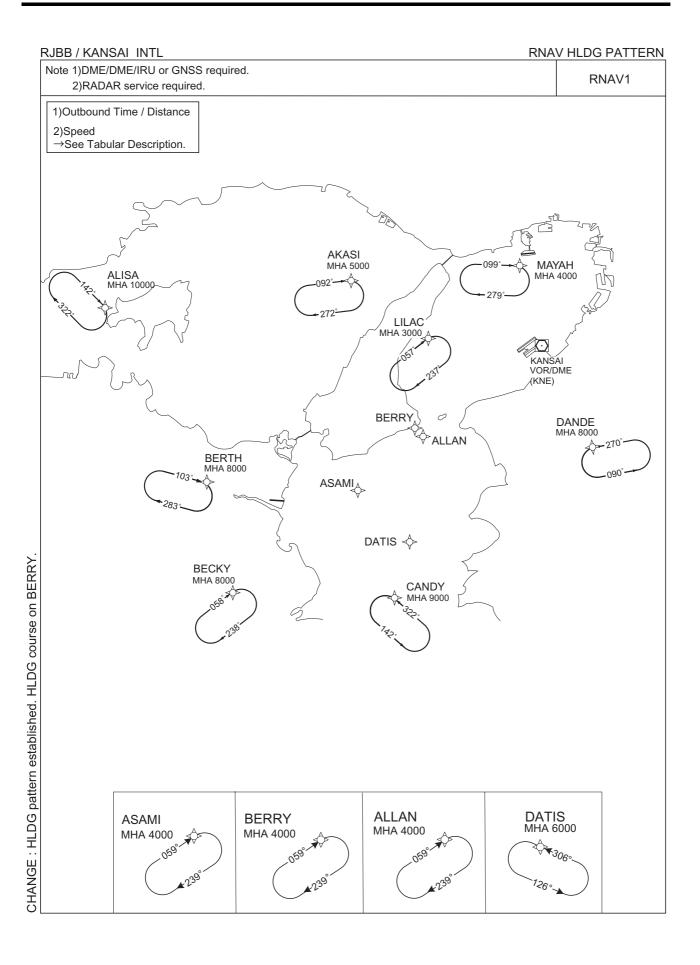












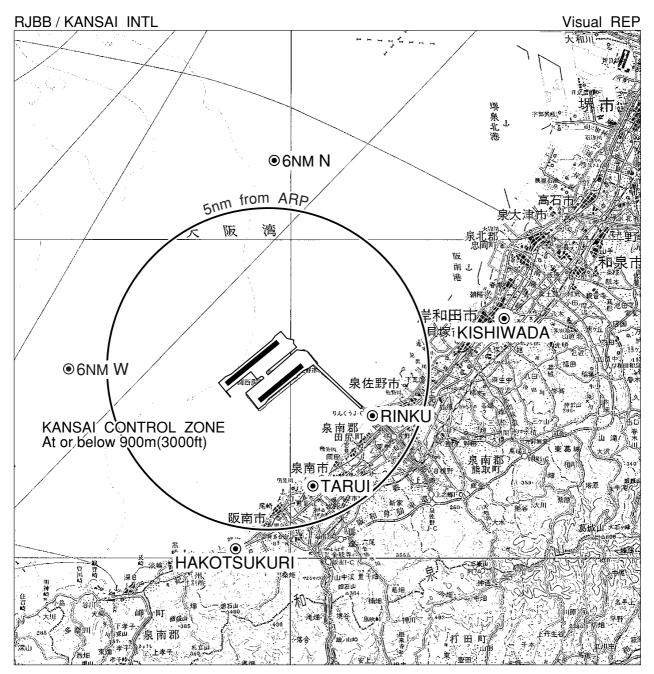
RJBB / KANSAI INTL

RNAV HLDG PATTERN

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Outbound Distance (NM) | Turn Direction | Altitudo | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|------------------------|-----------------------------|-----------------------|----------------------------|------------------------------|-------------------|----------|-----------------------------|------------------------------|-----------------------------|
| Hold | AKASI | 092 (083.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 5000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ALISA | 142 (134.0) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 10000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ALLAN | 059 (050.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | - | -230(-14000) -240(+14001) | RNAV1 |
| Hold | ASAMI | 059 (050.7) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BECKY | 058 (050.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | 1 | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BERRY | 059 (050.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | BERTH | 103 (095.4) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 8000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | CANDY | 322 (313.8) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 9000 | | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DANDE | 270 (262.6) | -7.8 | 1.0(-14000) 1.5(+14001) | - | L | 8000 | 1 | -230(-14000) -240(+14001) | RNAV1 |
| Hold | DATIS | 306 (298.6) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | L | 6000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | LILAC | 057 (049.2) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 3000 | _ | -230(-14000) -240(+14001) | RNAV1 |
| Hold | MAYAH | 099 (091.3) | -7.8 | 1.0(-14000) 1.5(+14001) | _ | R | 4000 | _ | -230(-14000) -240(+14001) | RNAV1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|----------------------|---------------------|----------------------|
| AKASI | 343522.7N/1344518.1E | BERTH | 340911.4N/1341900.0E |
| ALISA | 343042.6N/1340804.1E | CANDY | 335229.8N/1345541.8E |
| ALLAN | 341404.1N/1345728.3E | DANDE | 341309.4N/1352433.9E |
| ASAMI | 340757.9N/1344841.8E | DATIS | 335852.0N/1345613.1E |
| BECKY | 335509.0N/1343030.6E | LILAC | 342710.7N/1345842.0E |
| BERRY | 341502.0N/1345631.6E | MAYAH | 343623.7N/1351211.0E |



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

