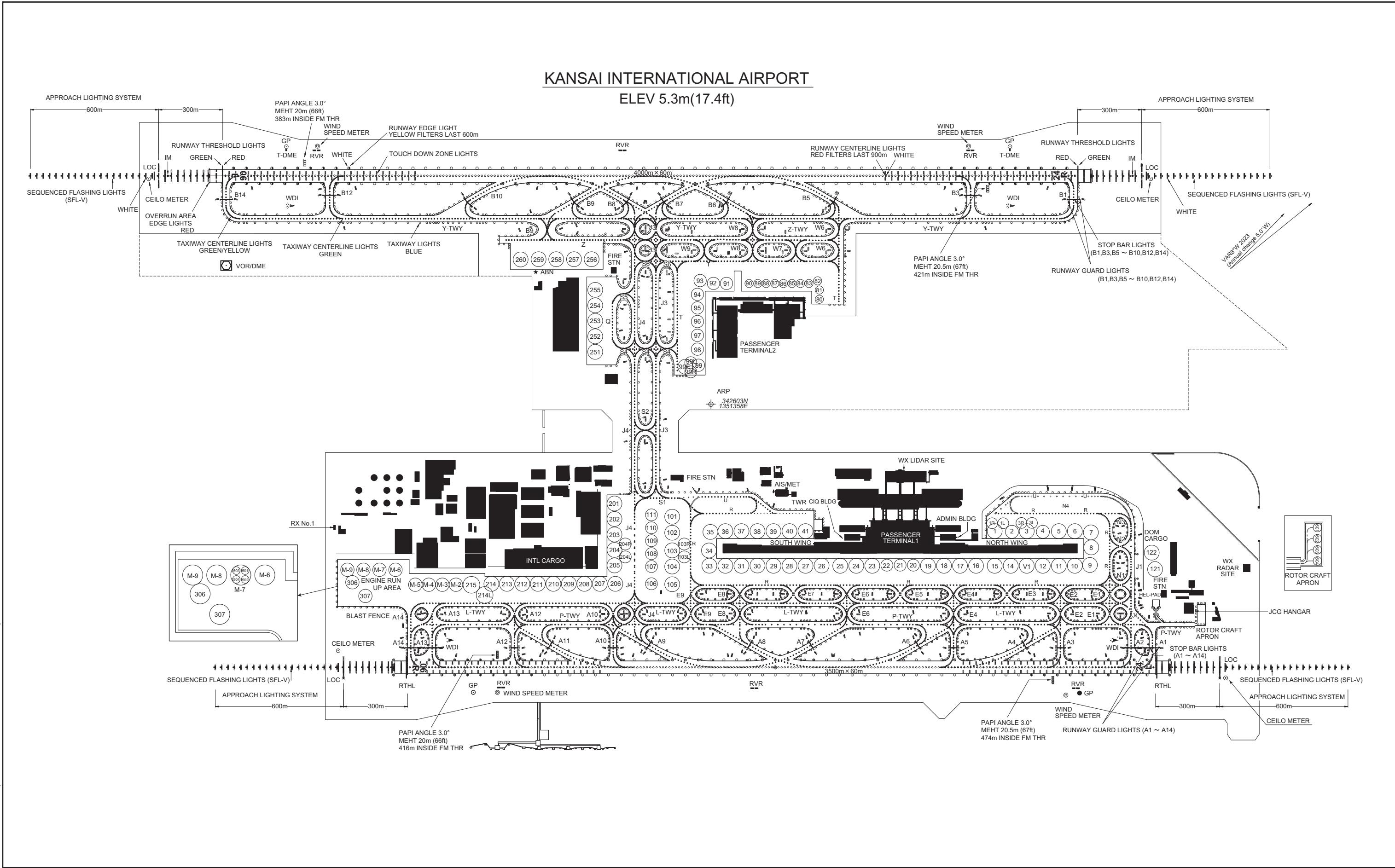


AERODROME CHART

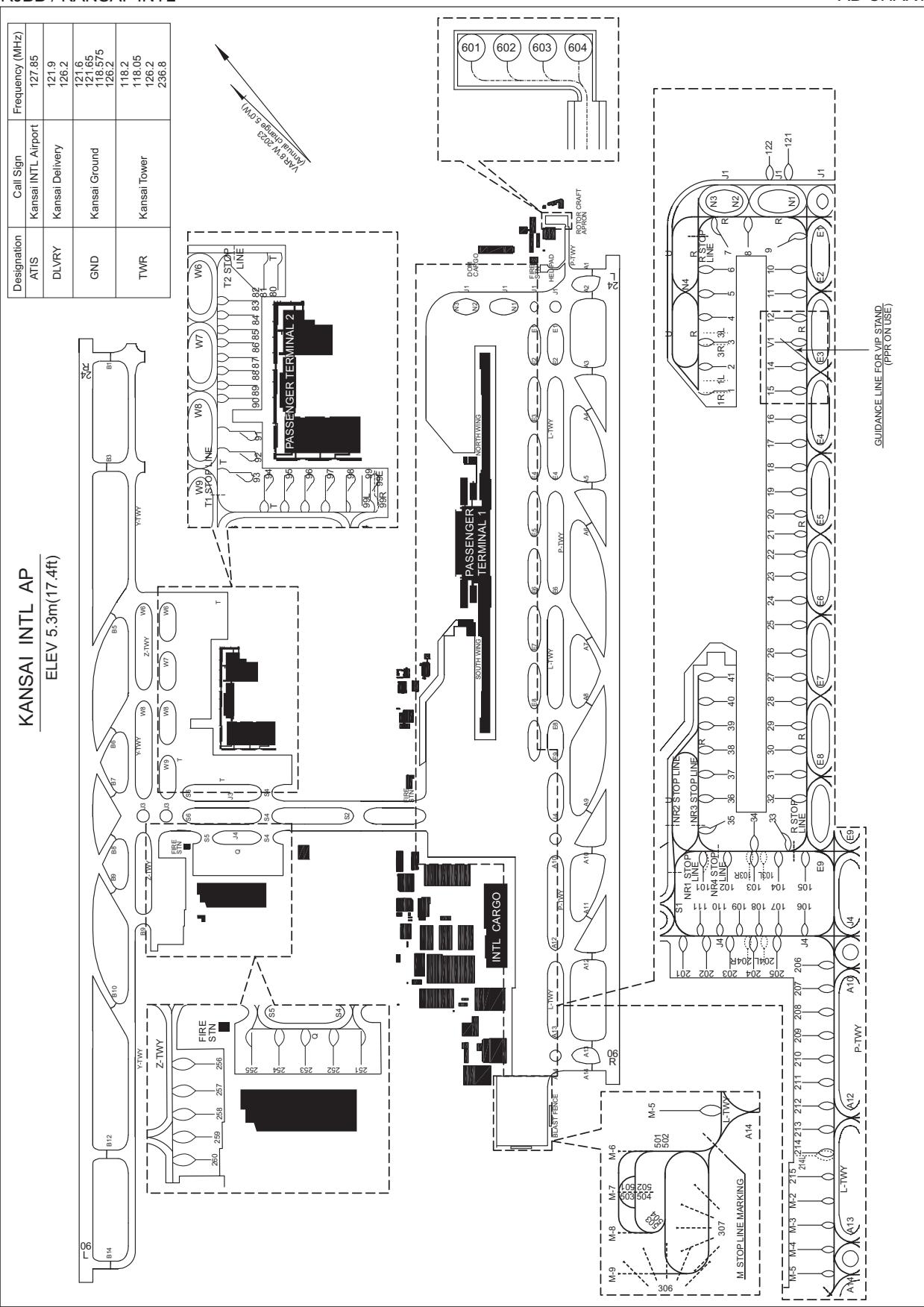
CHANGE : Spot 121, 122 installed. Stop bar LGT of the TWY B3 and B12 relocated.



RJBB / KANSAI INTL

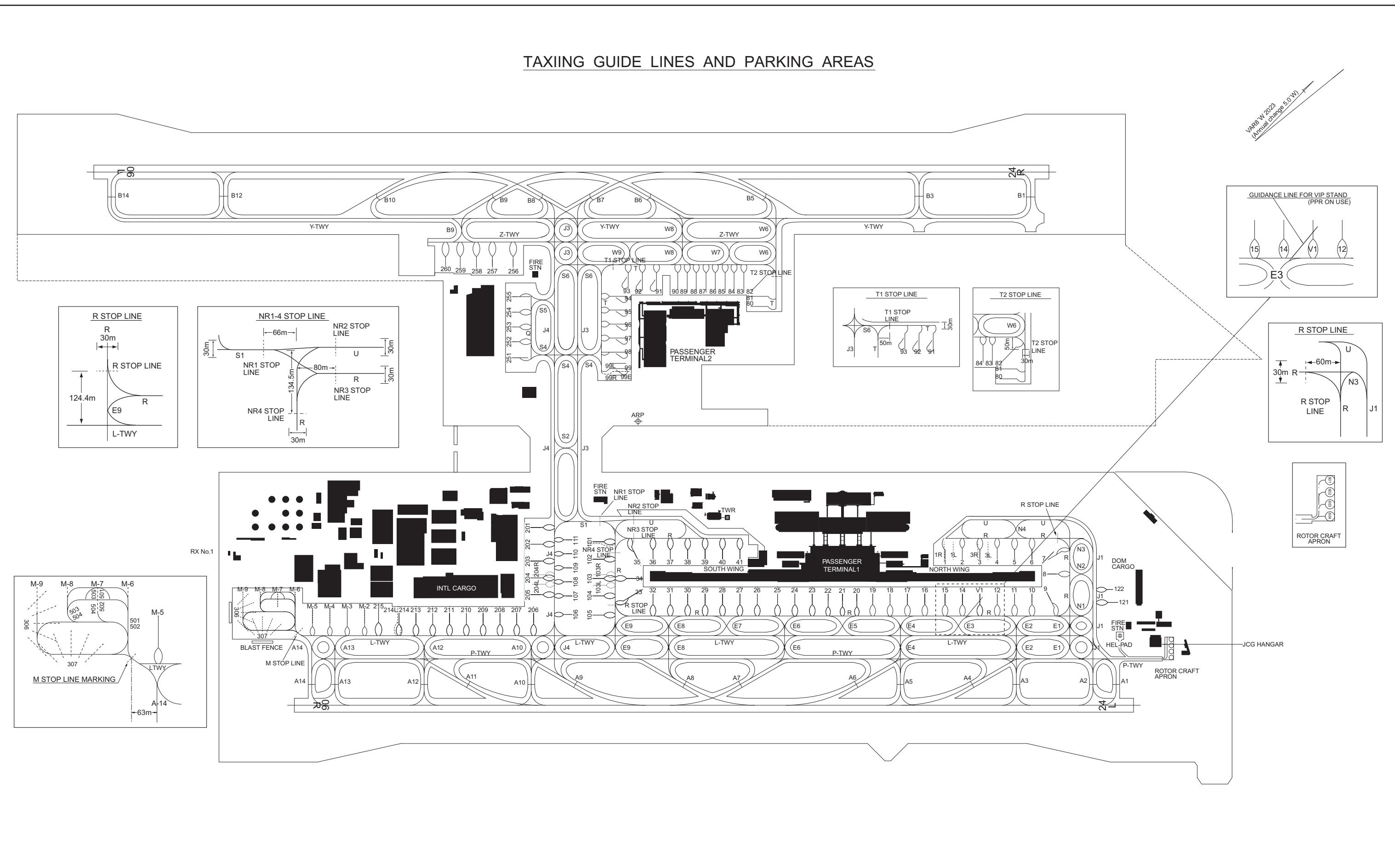
AD CHART

CHANGE : Spot 121, 122 installed. RWY HLDG PSN marking of the TWY B3 and B12 relocated.



CHANGE : Spot 121, 122 installed. RWY HLDG PSN marking of the TWY B3 and B12 relocated.

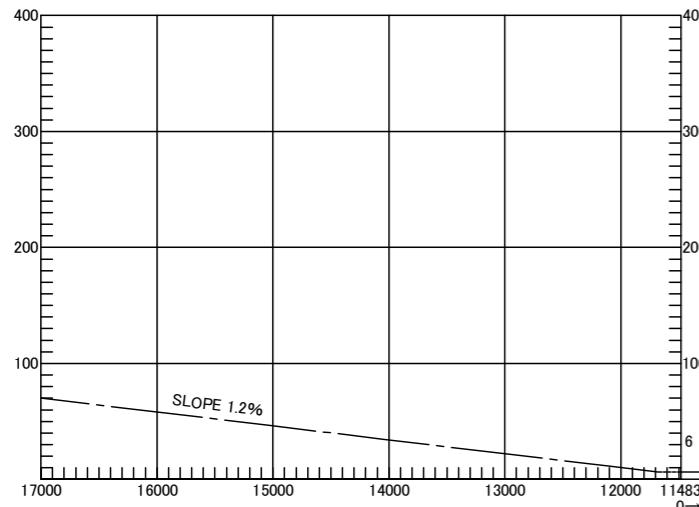
TAXIING GUIDE LINES AND PARKING AREAS



AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATIONAL LIMITATIONS)

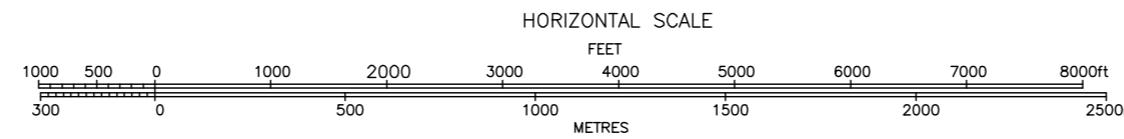
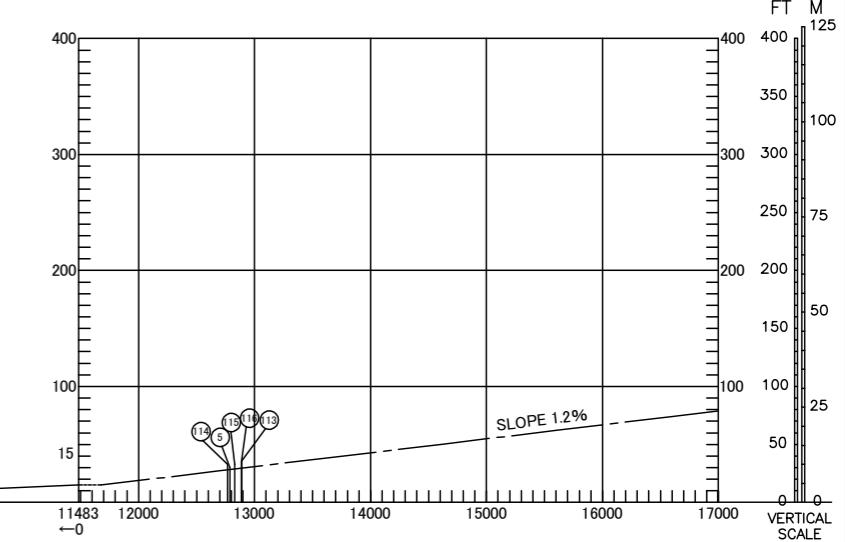
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

MAGNETIC VARIATION 8° W-FEB 2022



KANSAI INTERNATIONAL AIRPORT
RWY : 06R/24L

| DECLARED DISTANCES | |
|------------------------------------|---------|
| RWY 06R | RWY 24L |
| TAKE OFF RUN AVAILABLE | 3500m |
| TAKE OFF DISTANCE AVAILABLE | 3500m |
| ACCELERATE STOP DISTANCE AVAILABLE | 3500m |
| LANDING DISTANCE AVAILABLE | 3500m |



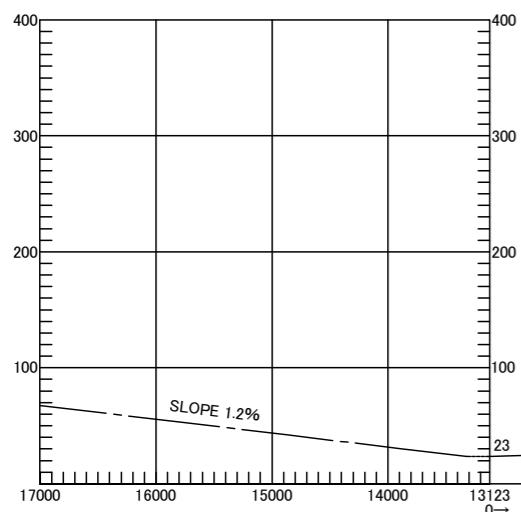
| LEGEND | | AMENDMENT RECORD | | |
|--------|-------------------------------------|------------------|--|--|
| Nr | DATE | ENTERED BY | | |
| ① | IDENTIFICATION NUMBER | | | |
| ◎ | POLE, TOWER, SPIRE, ANTENNA, ETC | | | |
| * | TREE | LEVEE | | |
| — | RAILROAD | RIVER | | |
| — | TRANSMISSION LINE OR OVERHEAD CABLE | | | |
| ▲ | TRIANGULATION POINT | | | |
| ★ | AERONAUTICAL GROUND LIGHT | | | |

CHANGE : Update.

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME OBSTACLE CHART-ICAO
TYPE A (OPERATIONAL LIMITATIONS)

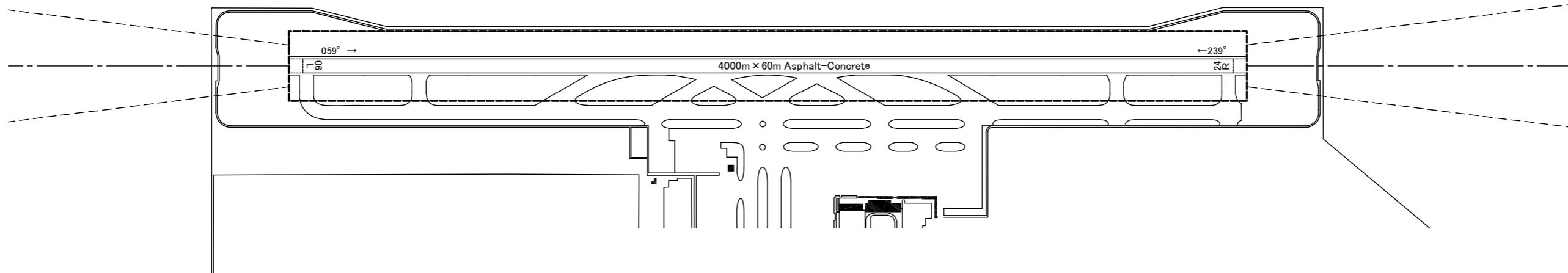
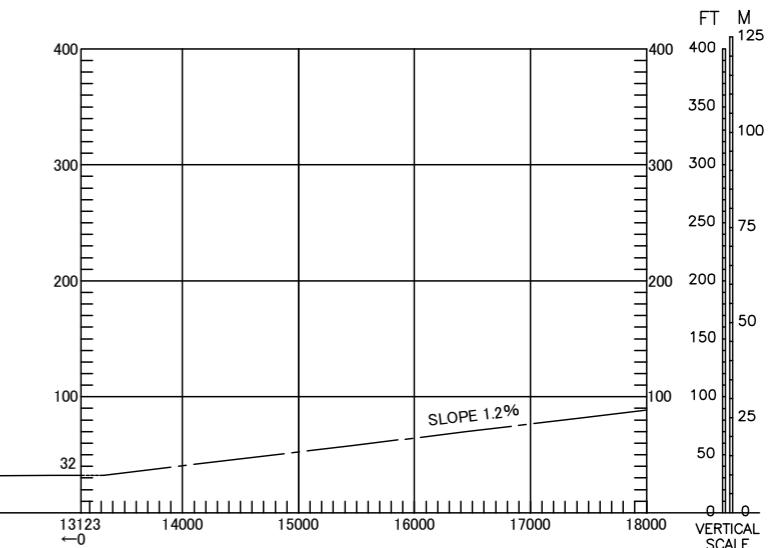
MAGNETIC VARIATION 8°W-FEB 2022



KANSAI INTERNATIONAL AIRPORT
RWY : 06L/24R

DECLARED DISTANCES

| RWY 06L | RWY 24R |
|------------------------------------|---------|
| TAKE OFF RUN AVAILABLE | 4000m |
| TAKE OFF DISTANCE AVAILABLE | 4000m |
| ACCELERATE STOP DISTANCE AVAILABLE | 4000m |
| LANDING DISTANCE AVAILABLE | 4000m |



LEGEND

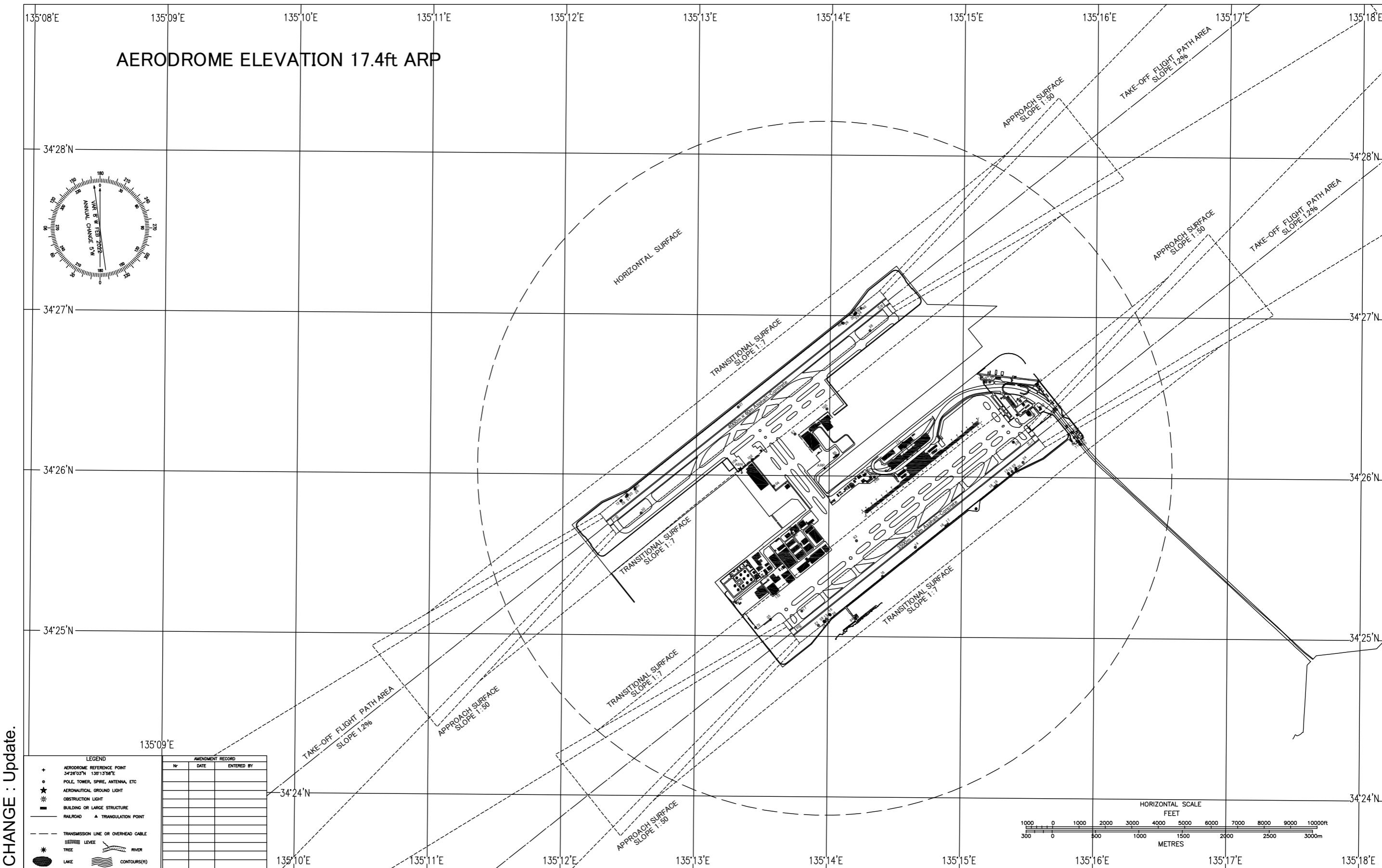
| | | |
|---|-------------------------------------|------------------|
| ① | IDENTIFICATION NUMBER | AMENDMENT RECORD |
| ◎ | POLE, TOWER, SPIRE, ANTENNA, ETC | Nr |
| * | TREE | DATE |
| — | RAILROAD | ENTERED BY |
| — | TRANSMISSION LINE OR OVERHEAD CABLE | |
| ▲ | TRIANGULATION POINT | |
| ★ | AERONAUTICAL GROUND LIGHT | |

CHANGE : Update.

AERODROME OBSTRUCTION CHART TYPE B

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETICS

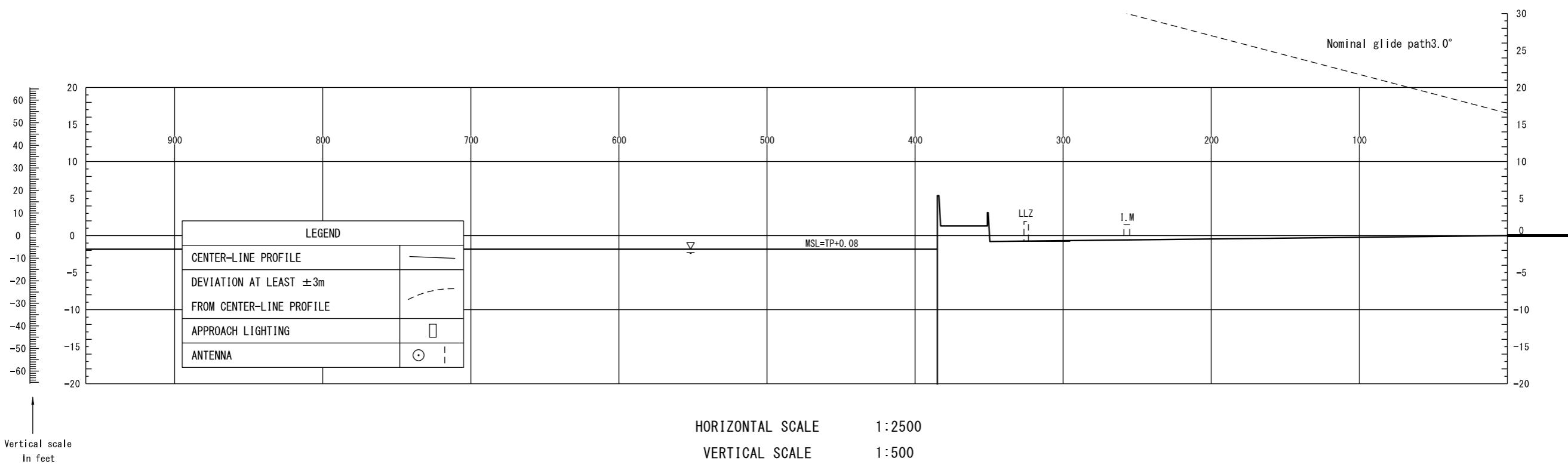
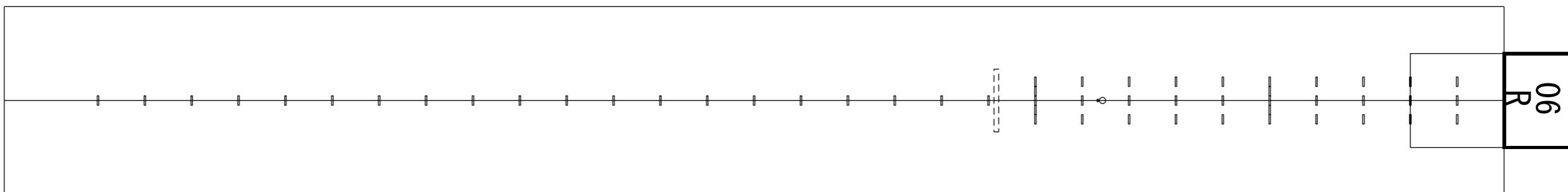
135°08'E 135°09'E 135°10'E 135°11'E
AERODROME ELEVATION 17.4ft ARP



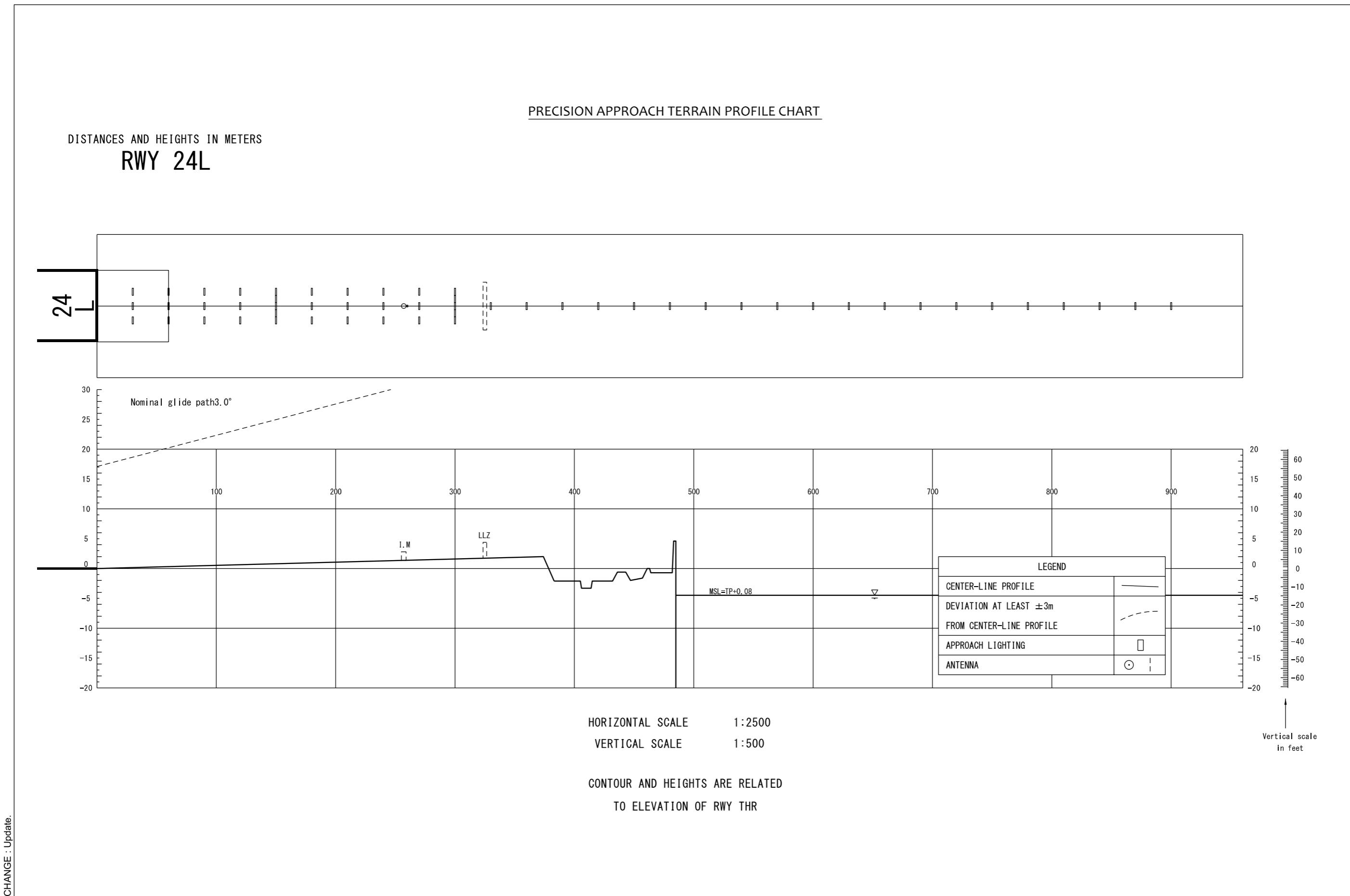
PRECISION APPROACH TERRAIN PROFILE CHART

DISTANCES AND HEIGHTS IN METERS

RWY 06R



CHANGE : Update.
CONTOUR AND HEIGHTS ARE RELATED
TO ELEVATION OF RWY THR



PRECISION APPROACH TERRAIN PROFILE CHART

DISTANCES AND HEIGHTS IN METERS

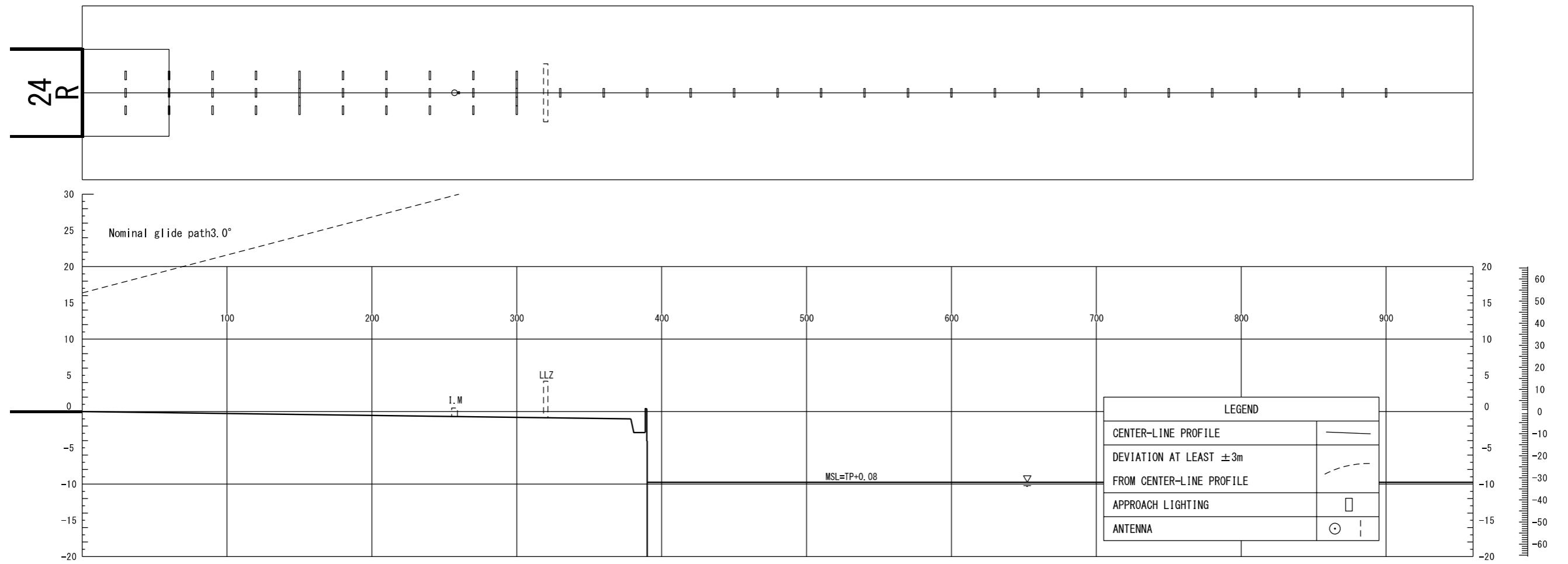
RWY 06L



PRECISION APPROACH TERRAIN PROFILE CHART

DISTANCES AND HEIGHTS IN METERS

RWY 24R



HORIZONTAL SCALE 1:2500

VERTICAL SCALE 1:500

CONTOUR AND HEIGHTS ARE RELATED
TO ELEVATION OF RWY THR

CHANGE : Update.

STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

MAIKO ONE DEPARTURE

RWY06R: Climb on HDG054° to KIE 4.4DME, turn left, via KCE R167 to intercept and proceed via YOE R279 to MAIKO.

Cross KIE R049 at or above 2500FT,...

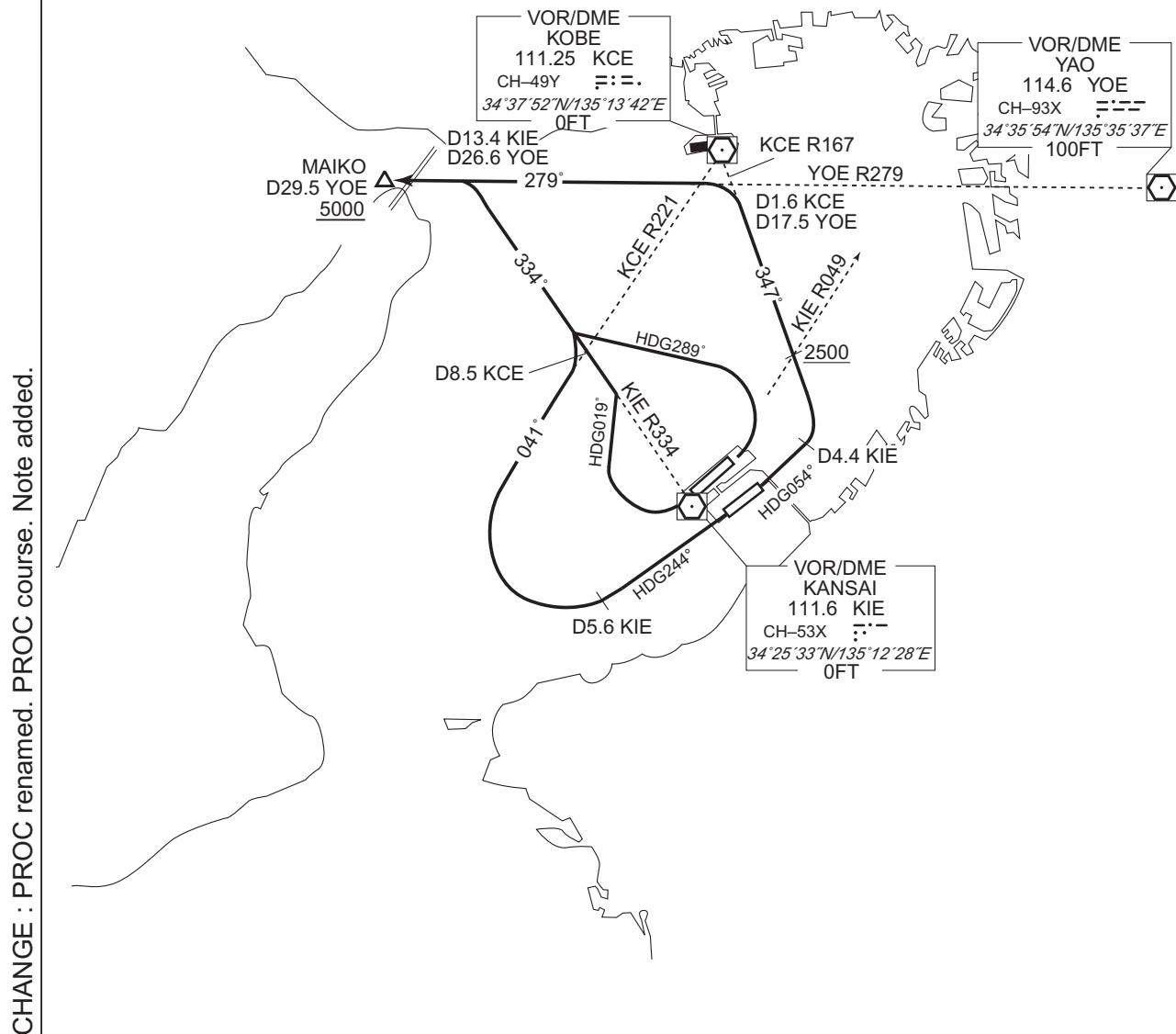
RWY06L : Turn left HDG289° to intercept and proceed via KIE R334,
via YOE R279 to MAIKO....

RWY24R: Turn right HDG019° to intercept and proceed via KIE R334, via YOE R279 to MAIKO....

RWY24L : Climb on HDG244° to KIE 5.6DME, turn right, via KCE R221 to intercept and proceed via KIE R334, via YOE R279 to MAIKO,...

...cross MAIKO at or above 5000FT.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

FERRY SEVEN DEPARTURE

RWY06R: Climb RWY HDG to 500FT, turn left HDG270°...

RWY06L : Turn left HDG270°...

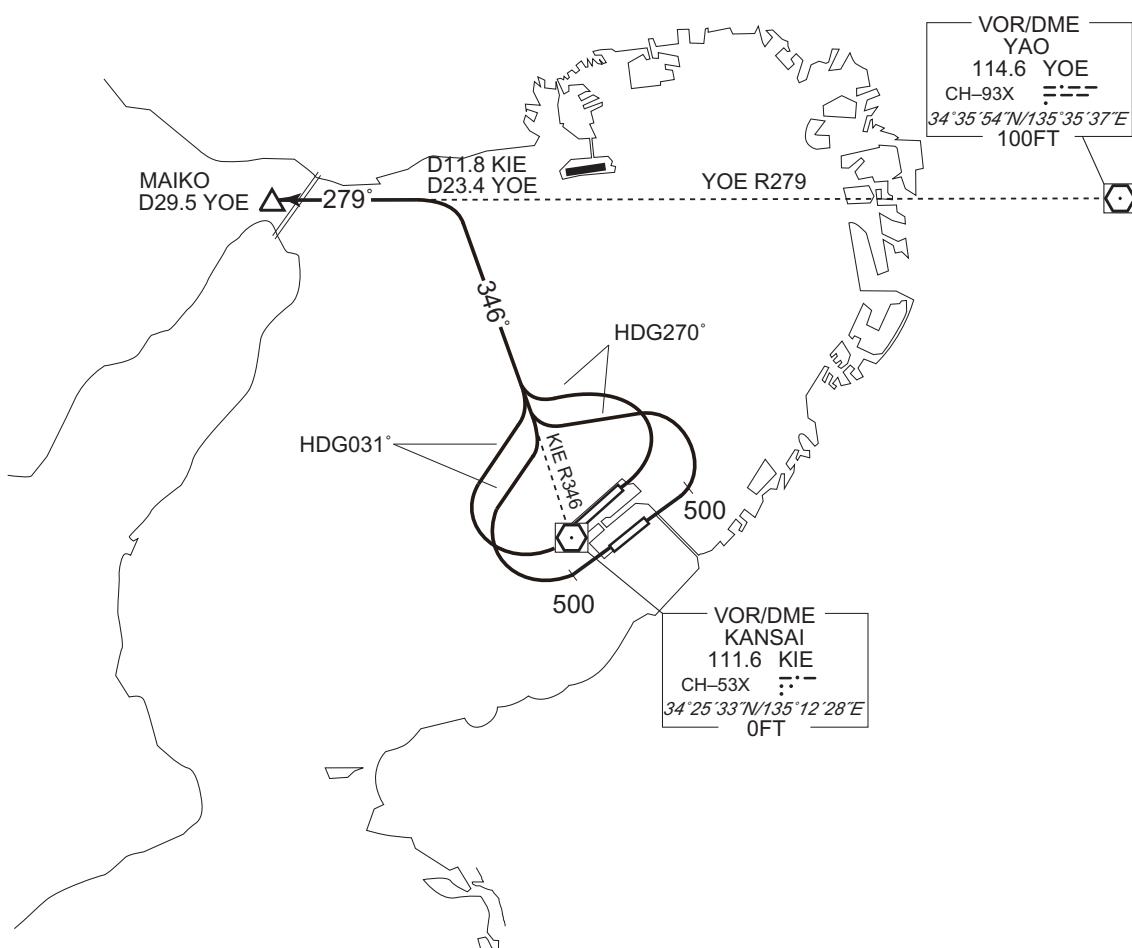
RWY24R: Turn right HDG031°...

RWY24L : Climb RWY HDG to 500FT, turn right HDG031°...

...to intercept and proceed via KIE R346, via YOE R279 to MAIKO.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 1100FT.

CHANGE : PROC renamed. PROC course. Note.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

TRANSITION

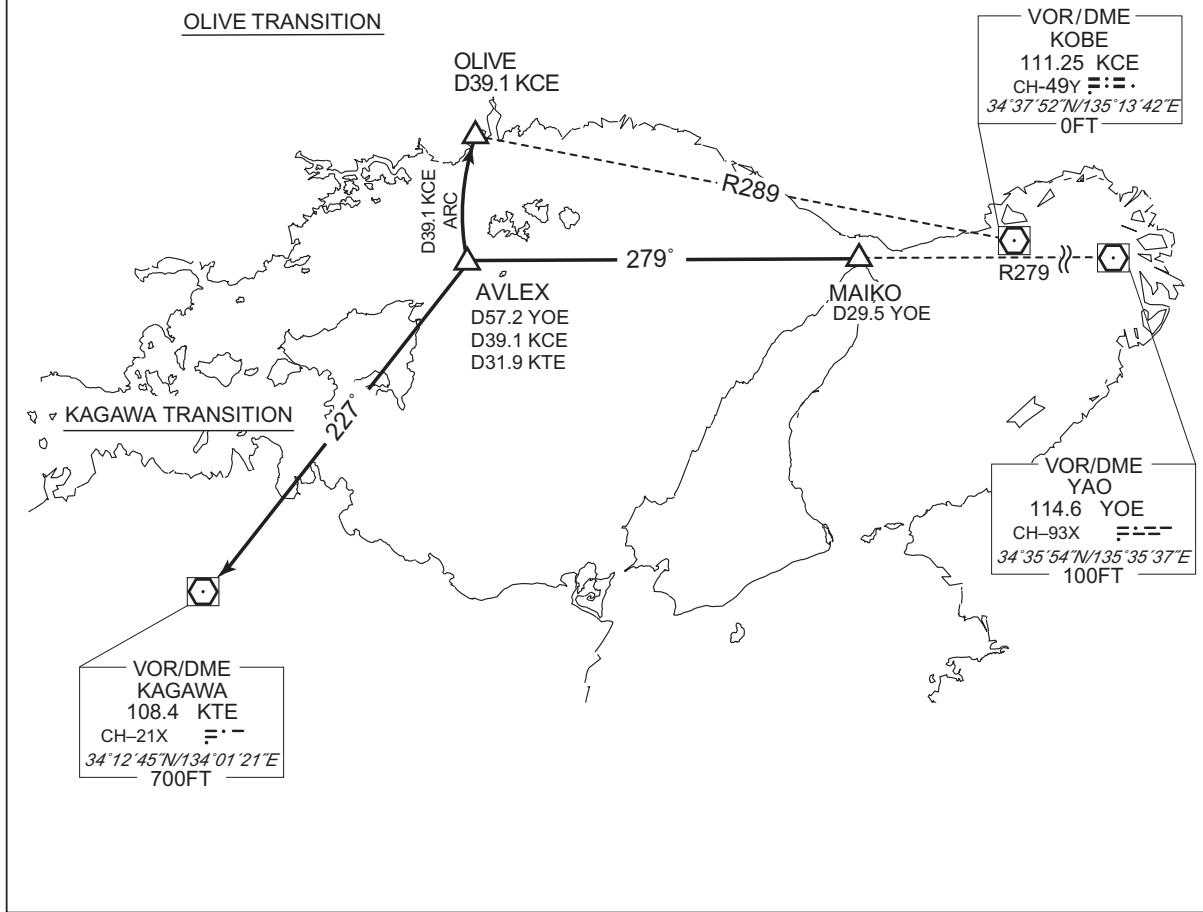
OLIVE TRANSITION

From over MAIKO, proceed via YOE R279 to AVLEX, turn right, via KCE 39.1DME clockwise ARC to OLIVE.

KAGAWA TRANSITION

From over MAIKO, proceed via YOE R279 to AVLEX, turn left, via KTE R047 to KTE VOR/DME.

CHANGE : OLIVE TRANSITION, KAGAWA TRANSITION, AVLEX established.
MIYAZU TRANSITION, KIBI TRANSITION, KAGAWA NORTH TRANSITION, AYAYA abolished. PROC course.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

TOMOH WEST TWO DEPARTURE

RWY06R: Climb RWY HDG to 500FT, turn left HDG270°...

RWY06L : Turn left HDG270°...

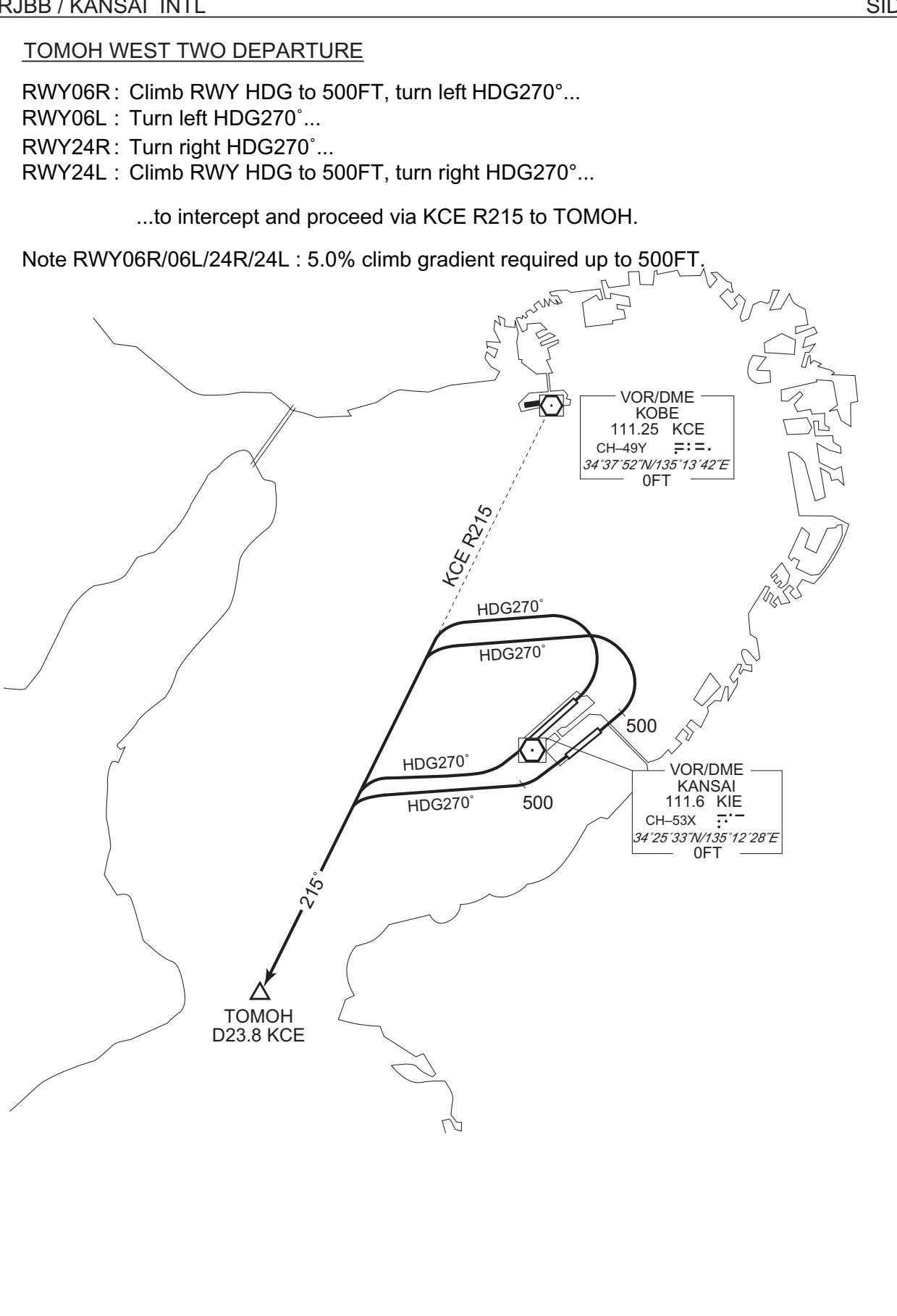
RWY24R : Turn right HDG270°...

RWY24L : Climb RWY HDG to 500FT, turn right HDG270°...

...to intercept and proceed via KCE R215 to TOMOH.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. PROC course. Note added.



STANDARD DEPARTURE CHART-INSTRUMENT

RJBB / KANSAI INTL

SID

TOMOH FOUR DEPARTURE

RWY06R : Climb on HDG054° to KIE 4.4DME, turn left, via KCE R167 to KCE 6.8DME, turn left HDG270° to intercept and proceed via KCE R215 to TOMOH. Cross KIE R049 at or above 2500FT. ...

RWY06L : Turn left HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

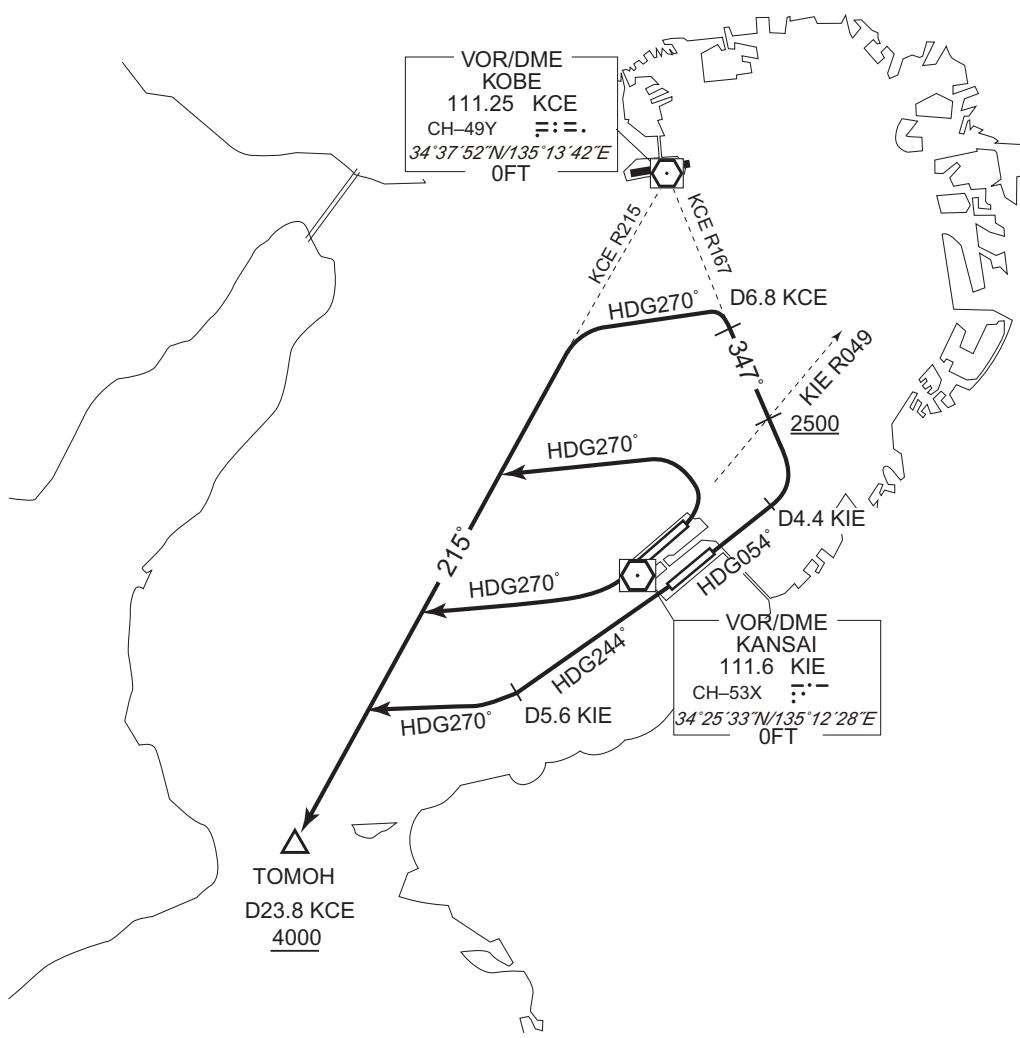
RWY24R : Turn right HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

RWY24L : Climb on HDG244° to KIE 5.6DME, turn right HDG270° to intercept and proceed via KCE R215 to TOMOH. ...

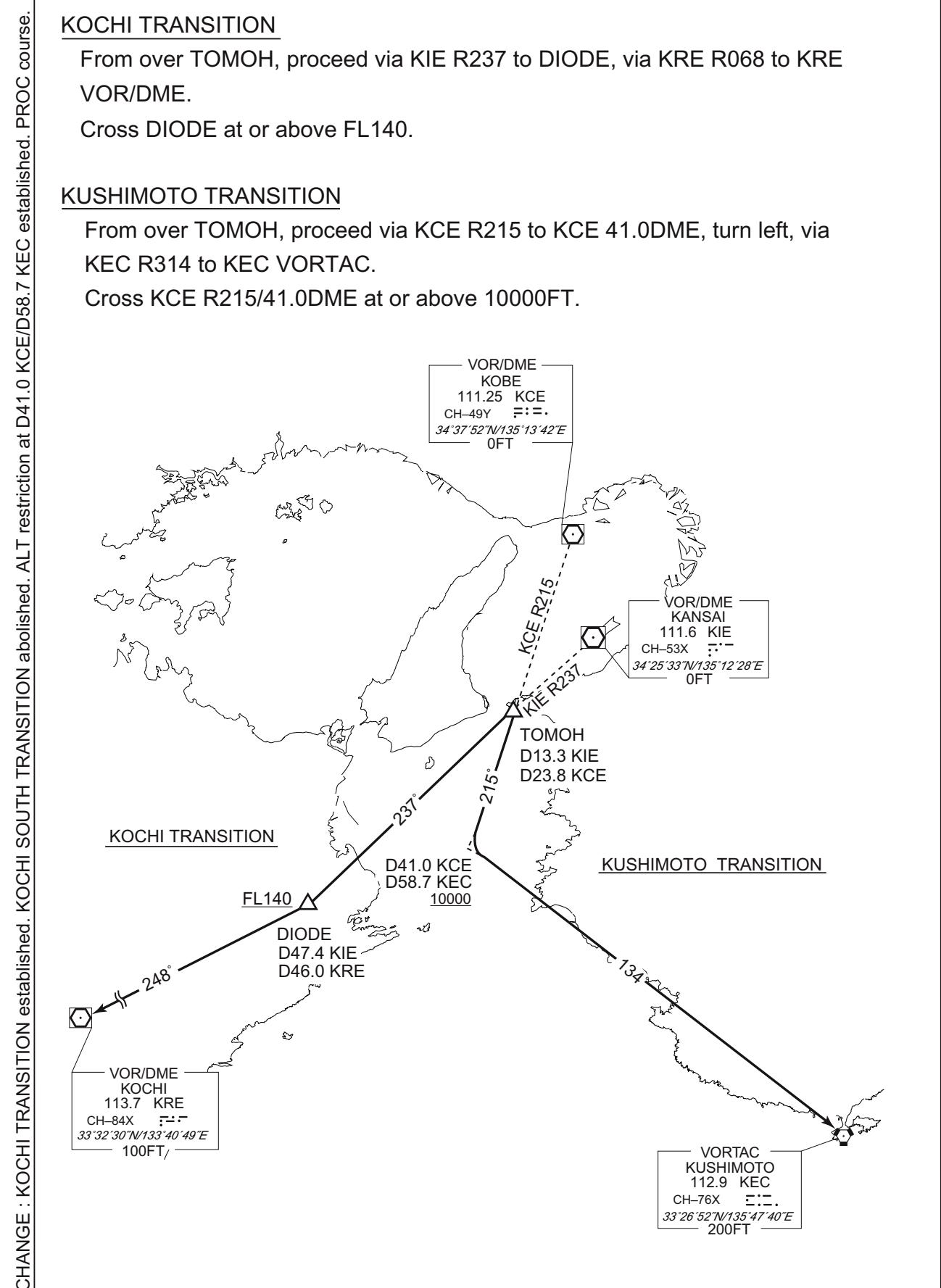
...Cross TOMOH at or above 4000FT.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : PROC renamed. Note added.



STANDARD DEPARTURE CHART-INSTRUMENT



STANDARD DEPARTURE CHART - INSTRUMENT

| RJBB / KANSAI INTL | RNAV SID and TRANSITION |
|--|--|
| UPMIN ONE DEPARTURE / DOPDA N TRANSITION / IVROG TRANSITION | RNP1 |
| Note GNSS required. | |
| <p>The chart illustrates the standard departure routes from three main points: UPMIN, DOPDA, and IVROG. - UPMIN ONE DEPARTURE: A direct route to UPMIN with a heading of 184°. From UPMIN, a climb on HDG 059° at or above 500FT leads to LELUS. - DOPDA N TRANSITION: A direct route to DOPDA with a heading of 174°. From DOPDA, a climb on HDG 059° at or above 500FT leads to LELUS. - IVROG TRANSITION: A direct route to IVROG with a heading of 250°. From IVROG, a climb on HDG 239° at or above 500FT leads to LELUS. - LELUS: MAX 230KIAS (for RWY24R/L) is indicated. - VEKTA: A point on the route where a turn is made. - KUSHIMOTO(KEC): Reached via a direct route from DOPDA with a heading of 131°. - VAR 8°W: A note indicating a variation of 8 degrees West.</p> | |
| CHANGE : New PROC. | <p>UPMIN ONE DEPARTURE</p> <p>RWY06R : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to VEKTA, to UPMIN. RWY06L : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to VEKTA, to UPMIN. RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to VEKTA, to UPMIN. RWY24L : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to VEKTA, to UPMIN.</p> <p>Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.</p> <p>DOPDA N TRANSITION</p> <p>From UPMIN, to DOPDA, to KEC.</p> <p>IVROG TRANSITION</p> <p>From UPMIN, to IVROG.</p> |

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

UPMIN 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | L | — | — | — | RNP1 |
| 003 | TF | VEKTA | — | 237 (229.2) | -8.1 | 3.6 | — | — | — | — | RNP1 |
| 004 | TF | UPMIN | — | 184 (175.9) | -8.1 | 8.0 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | L | — | — | — | RNP1 |
| 003 | TF | VEKTA | — | 237 (229.2) | -8.1 | 3.6 | — | — | — | — | RNP1 |
| 004 | TF | UPMIN | — | 184 (175.9) | -8.1 | 8.0 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | R | — | -230 | — | RNP1 |
| 003 | TF | VEKTA | — | 237 (229.2) | -8.1 | 3.6 | — | — | — | — | RNP1 |
| 004 | TF | UPMIN | — | 184 (175.9) | -8.1 | 8.0 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | R | — | -230 | — | RNP1 |
| 003 | TF | VEKTA | — | 237 (229.2) | -8.1 | 3.6 | — | — | — | — | RNP1 |
| 004 | TF | UPMIN | — | 184 (175.9) | -8.1 | 8.0 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| LELUS | 342436.6N / 1350309.3E |
| VEKTA | 342215.6N / 1345951.2E |
| UPMIN | 341416.7N / 1350033.1E |

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

DOPDA N TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | UPMIN | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | DOPDA | — | 174 (166.2) | -8.1 | 20.3 | — | — | — | — | RNP1 |
| 003 | TF | KEC | — | 137 (128.7) | -8.1 | 44.2 | — | — | — | — | RNP1 |

IVROG TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | UPMIN | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | IVROG | — | 250 (241.5) | -8.1 | 74.1 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| UPMIN | 341416.7N / 1350033.1E | KEC | 332651.9N / 1354740.2E |
| DOPDA | 335436.4N / 1350622.2E | IVROG | 333828.1N / 1334224.0E |

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

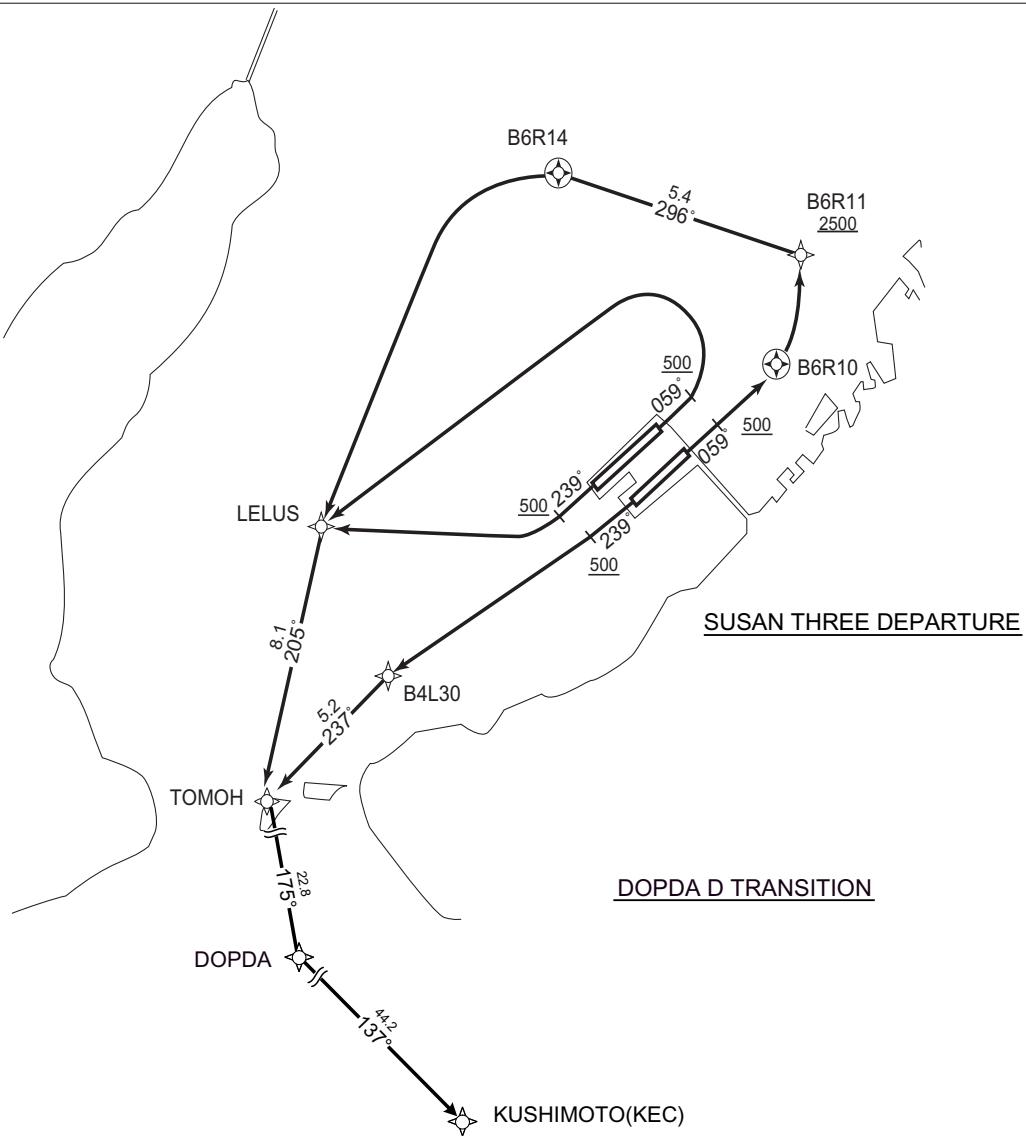
RNAV SID and TRANSITION

SUSAN THREE DEPARTURE / DOPDA D TRANSITION

RNP1

Note GNSS required.

VAR 8°W

SUSAN THREE DEPARTURE

RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to LELUS, to TOMOH.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to TOMOH.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to TOMOH.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L30, to TOMOH.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

DOPDA D TRANSITION

From TOMOH, to DOPDA, to KEC.

CHANGE : PROC renamed. DOPDA D TRANSITION established. LELUS, DOPDA established. BB430 abolished. Note added.
Navigation Specification.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

SUSAN THREE 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 | – | – | 059 (050.9) | -8.1 | – | – | +500 | – | – | RNP1 |
| 002 | DF | B6R10 | Y | – | -8.1 | – | – | – | – | – | RNP1 |
| 003 | DF | B6R11 | – | – | -8.1 | – | L | +2500 | – | – | RNP1 |
| 004 | TF | B6R14 | Y | 296 (287.8) | -8.1 | 5.4 | – | – | – | – | RNP1 |
| 005 | DF | LELUS | – | – | -8.1 | – | L | – | – | – | RNP1 |
| 006 | TF | TOMOH | – | 205 (196.6) | -8.1 | 8.1 | – | – | – | – | RNP1 |

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 | – | – | 059 (050.9) | -8.1 | – | – | +500 | – | – | RNP1 |
| 002 | DF | LELUS | – | – | -8.1 | – | L | – | – | – | RNP1 |
| 003 | TF | TOMOH | – | 205 (196.6) | -8.1 | 8.1 | – | – | – | – | RNP1 |

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 | – | – | 239 (230.9) | -8.1 | – | – | +500 | – | – | RNP1 |
| 002 | DF | LELUS | – | – | -8.1 | – | R | – | – | – | RNP1 |
| 003 | TF | TOMOH | – | 205 (196.6) | -8.1 | 8.1 | – | – | – | – | RNP1 |

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 | – | – | 239 (230.9) | -8.1 | – | – | +500 | – | – | RNP1 |
| 002 | DF | B4L30 | – | – | -8.1 | – | – | – | – | – | RNP1 |
| 003 | TF | TOMOH | – | 237 (229.1) | -8.1 | 5.2 | – | – | – | – | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | LELUS | 342436.6N / 1350309.3E |
| B6R11 | 343140.8N / 1351845.1E | B4L30 | 342013.0N / 1350504.1E |
| B6R14 | 343320.1N / 1351229.1E | TOMOH | 341649.6N / 1350020.3E |

CHANGE : PROC renamed. LELUS established. BB430 abolished. VAR. Navigation Specification. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID and TRANSITION

DOPDA D TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | IF | TOMOH | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | DOPDA | — | 175 (167.3) | -8.1 | 22.8 | — | — | — | — | RNP1 |
| 003 | TF | KEC | — | 137 (128.7) | -8.1 | 44.2 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| TOMOH | 341649.6N / 1350020.3E |
| DOPDA | 335436.4N / 1350622.2E |
| KEC | 332651.9N / 1354740.2E |

CHANGE : DOPDA D TRANSITION established.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

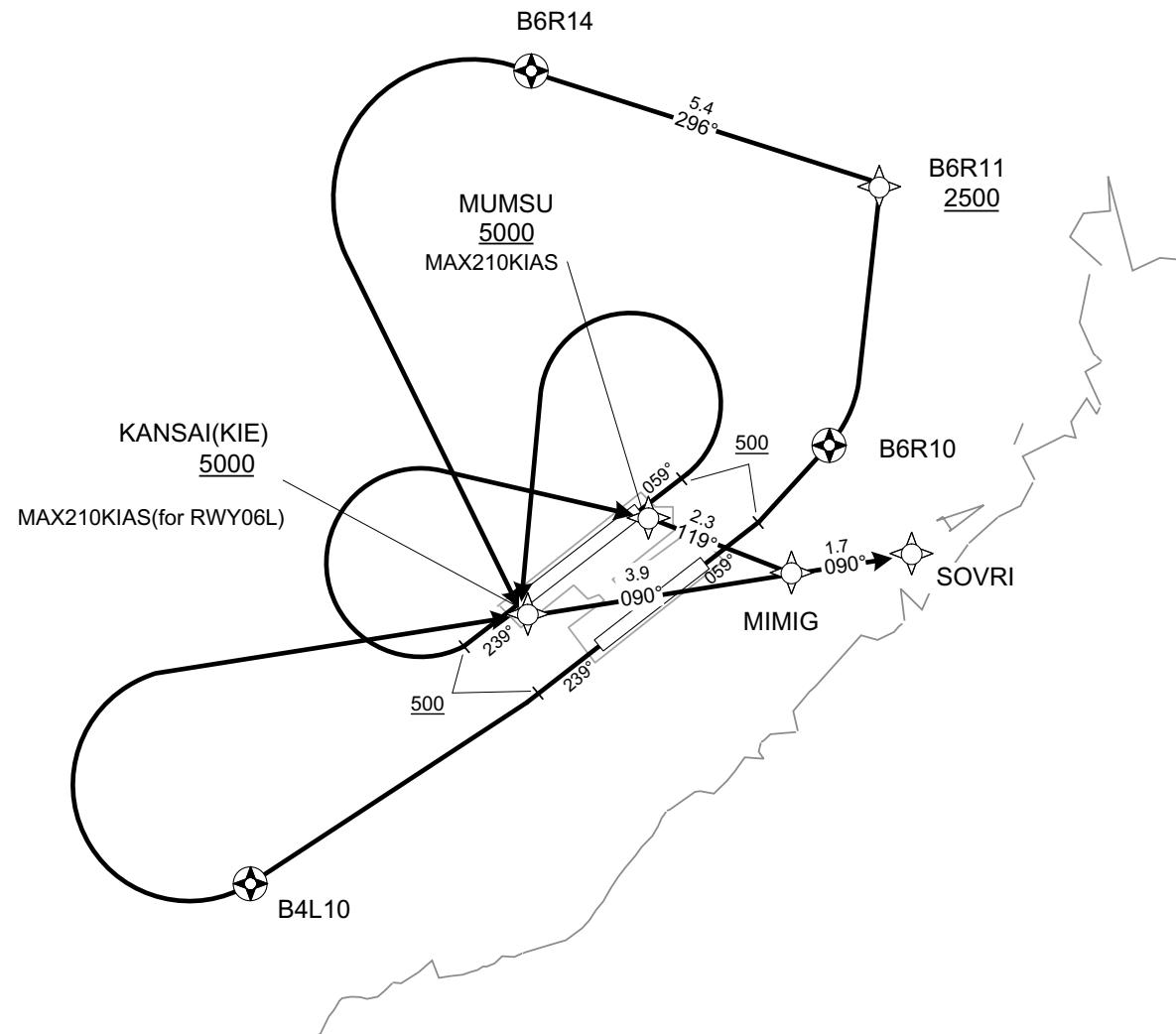
RNAV SID

SOVRI ONE DEPARTURE

RNP1

Note GNSS required.

VAR 8°W



RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to KIE at or above 5000FT, to MIMIG, to SOVRI.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to KIE at or above 5000FT, to MIMIG, to SOVRI.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to MUMSU at or above 5000FT, to MIMIG, to SOVRI.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to KIE at or above 5000FT, to MIMIG, to SOVRI.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

RWY06L/24R : No turn before DER.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

SOVRI 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6R10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | B6R11 | — | — | -8.1 | — | L | +2500 | — | — | RNP1 |
| 004 | TF | B6R14 | Y | 296 (287.8) | -8.1 | 5.4 | — | — | — | — | RNP1 |
| 005 | DF | KIE | — | — | -8.1 | — | L | +5000 | — | — | RNP1 |
| 006 | TF | MIMIG | — | 090 (081.4) | -8.1 | 3.9 | — | — | — | — | RNP1 |
| 007 | TF | SOVRI | — | 090 (081.5) | -8.1 | 1.7 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | KIE | — | — | -8.1 | — | L | +5000 | -210 | — | RNP1 |
| 003 | TF | MIMIG | — | 090 (081.4) | -8.1 | 3.9 | — | — | — | — | RNP1 |
| 004 | TF | SOVRI | — | 090 (081.5) | -8.1 | 1.7 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | MUMSU | — | — | -8.1 | — | R | +5000 | -210 | — | RNP1 |
| 003 | TF | MIMIG | — | 119 (110.8) | -8.1 | 2.3 | — | — | — | — | RNP1 |
| 004 | TF | SOVRI | — | 090 (081.5) | -8.1 | 1.7 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B4L10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | KIE | — | — | -8.1 | — | R | +5000 | — | — | RNP1 |
| 004 | TF | MIMIG | — | 090 (081.4) | -8.1 | 3.9 | — | — | — | — | RNP1 |
| 005 | TF | SOVRI | — | 090 (081.5) | -8.1 | 1.7 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | KIE | 342532.7N / 1351227.8E |
| B6R11 | 343140.8N / 1351845.1E | MUMSU | 342656.2N / 1351432.3E |
| B6R14 | 343320.1N / 1351229.1E | MIMIG | 342607.4N / 1351707.8E |
| B4L10 | 342136.9N / 1350734.5E | SOVRI | 342622.9N / 1351913.4E |

CHANGE : New PROC.

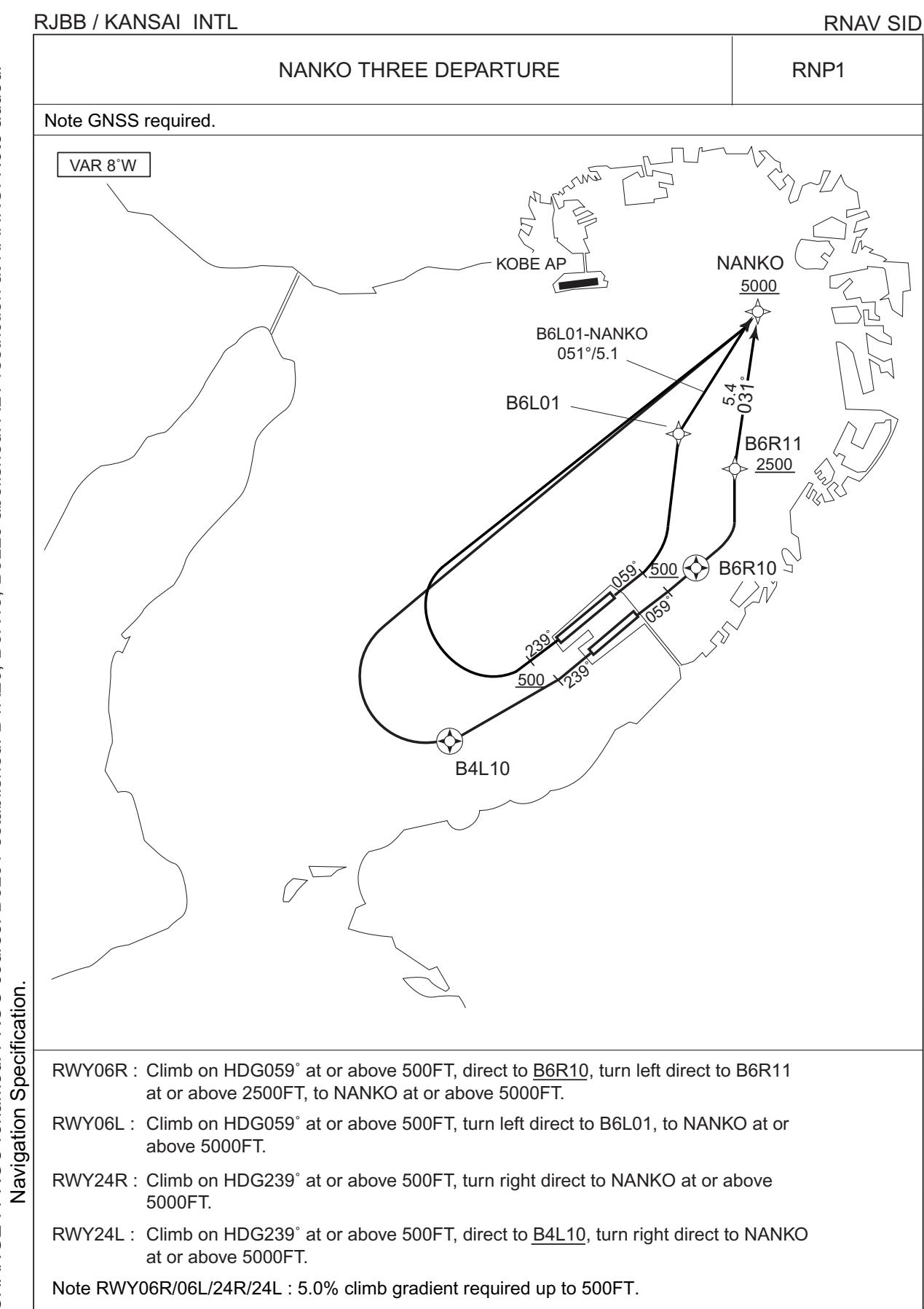
STANDARD DEPARTURE CHART - INSTRUMENT

| RJBB / KANSAI INTL | | RNAV TRANSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---------------------|------------------------|-----------------|---------------------|---------------|----------------|------------------------|---------------|------------------------|--------------------------|------------------------|----------------|--------------------------|-----|----|-------|---|---|------|---|---|---|---|---|------|-----|----|-------|---|----------------|------|------|---|---|---|---|------|-----|----|-------|---|----------------|------|------|---|---|---|---|------|-----|----|-------|---|----------------|------|------|---|---|---|---|------|
| UPRAL TRANSITION / SHTLE TRANSITION | | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note GNSS required. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="border: 1px solid black; padding: 2px; display: inline-block;">VAR 8° W</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>UPRAL TRANSITION</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From SOVRI, to UPRAL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Serial Number</th><th>Path Descriptor</th><th>Waypoint Identifier</th><th>Fly Over</th><th>Course °M(°T)</th><th>Magnetic Variation</th><th>Distance (NM)</th><th>Turn Direction</th><th>Altitude (FT)</th><th>Speed (KIAS)</th><th>Vertical Angle</th><th>Navigation Specification</th></tr> </thead> <tbody> <tr> <td>001</td><td>IF</td><td>SOVRI</td><td>—</td><td>—</td><td>-8.1</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> <tr> <td>002</td><td>TF</td><td>UPRAL</td><td>—</td><td>087 (078.6)</td><td>-8.1</td><td>18.4</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> </tbody> </table> | | | Serial Number | 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 | SOVRI | — | — | -8.1 | — | — | — | — | — | RNP1 | 002 | TF | UPRAL | — | 087 (078.6) | -8.1 | 18.4 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number | 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 | SOVRI | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | UPRAL | — | 087 (078.6) | -8.1 | 18.4 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>SHTLE TRANSITION</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From SOVRI, to UPRAL, to YAGYU, to SHTLE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Serial Number | 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 | SOVRI | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | UPRAL | — | 087 (078.6) | -8.1 | 18.4 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | YAGYU | — | 087 (078.8) | -8.1 | 13.9 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | TF | SHTLE | — | 078 (070.3) | -8.1 | 51.7 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Waypoint Coordinates</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOVRI | 342622.9N / 1351913.4E | YAGYU | 343239.3N / 1355738.1E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPRAL | 342958.8N / 1354102.9E | SHTLE | 344951.0N / 1365653.8E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CHANGE : Description of Navigation Specification (RNAV1→RNP1).

STANDARD DEPARTURE CHART - INSTRUMENT

CHANGE : PROC renamed. PROC course. B6L01 established. B4R20, B6R13, B6L20 abolished. ALT restriction at NANKO. Note added.



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

NANKO THREE 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6R10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | B6R11 | — | — | -8.1 | — | L | +2500 | — | — | RNP1 |
| 004 | TF | NANKO | — | 031 (023.3) | -8.1 | 5.4 | — | +5000 | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6L01 | — | — | -8.1 | — | L | — | — | — | RNP1 |
| 003 | TF | NANKO | — | 051 (043.4) | -8.1 | 5.1 | — | +5000 | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | NANKO | — | — | -8.1 | — | R | +5000 | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B4L10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | NANKO | — | — | -8.1 | — | R | +5000 | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | B4L10 | 342136.9N / 1350734.5E |
| B6R11 | 343140.8N / 1351845.1E | NANKO | 343638.7N / 1352121.0E |
| B6L01 | 343258.4N / 1351708.1E | | |

CHANGE : PROC renamed. PROC course. B6L01 established. B6R13, B6L20, B4R20 abolished. VAR.
ALT restriction at NANKO. Navigation Specification. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

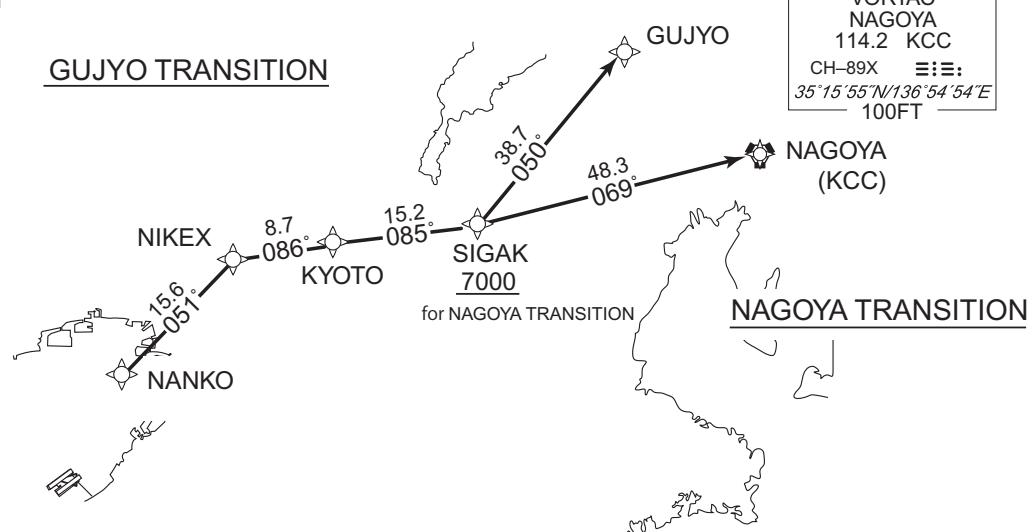
RNAV TRANSITION

GUJYO TRANSITION / NAGOYA TRANSITION

RNP1

Note GNSS required.

VAR 8° W

GUJYO TRANSITION

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

| Serial Number | 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 | NANKO | — | — | -7.9 | — | — | — | — | — | RNP1 |
| 002 | TF | NIKEX | — | 051 (043.4) | -7.9 | 15.6 | — | — | — | — | RNP1 |
| 003 | TF | KYOTO | — | 086 (077.7) | -7.9 | 8.7 | — | — | — | — | RNP1 |
| 004 | TF | SIGAK | — | 085 (077.4) | -7.9 | 15.2 | — | — | — | — | RNP1 |
| 005 | TF | GUJYO | — | 050 (042.0) | -7.9 | 38.7 | — | — | — | — | RNP1 |

NAGOYA TRANSITION

From NANKO, to NIKEX, to KYOTO, to SIGAK at or above 7000FT, to KCC.

| Serial Number | 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 | NANKO | — | — | -7.9 | — | — | — | — | — | RNP1 |
| 002 | TF | NIKEX | — | 051 (043.4) | -7.9 | 15.6 | — | — | — | — | RNP1 |
| 003 | TF | KYOTO | — | 086 (077.7) | -7.9 | 8.7 | — | — | — | — | RNP1 |
| 004 | TF | SIGAK | — | 085 (077.4) | -7.9 | 15.2 | — | +7000 | — | — | RNP1 |
| 005 | TF | KCC | — | 069 (061.6) | -7.9 | 48.3 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| NANKO | 343638.7N / 1352121.0E | SIGAK | 345307.7N / 1360252.7E |
| NIKEX | 344758.7N / 1353424.9E | GUJYO | 352150.5N / 1363438.5E |
| KYOTO | 344949.7N / 1354448.8E | KCC | 351555.0N / 1365453.7E |

CHANGE : GUJYO TRANSITION, NIKEX established. SIGAK TRANSITION, OGURA abolished. Note.
ALT restriction at SIGAK. Navigation Specification. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

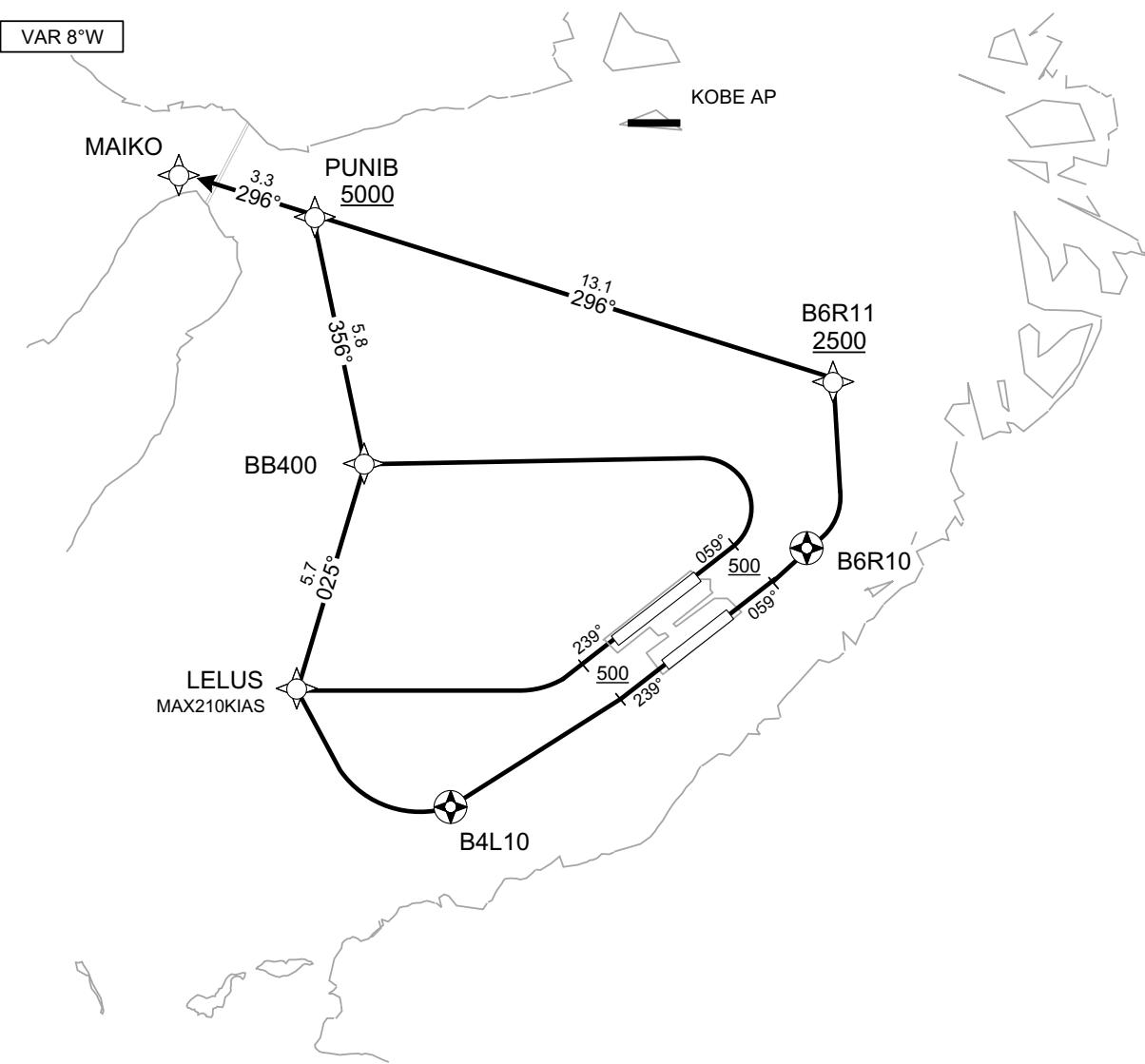
RJBB / KANSAI INTL

RNAV SID

RINKU ONE DEPARTURE

RNP1

Note GNSS required.



RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to PUNIB at or above 5000FT, to MAIKO.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to BB400, to PUNIB at or above 5000FT, to MAIKO.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to BB400, to PUNIB at or above 5000FT, to MAIKO.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to LELUS, to BB400, to PUNIB at or above 5000FT, to MAIKO.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

RINKU 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6R10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | B6R11 | — | — | -8.1 | — | L | +2500 | — | — | RNP1 |
| 004 | TF | PUNIB | — | 296 (287.8) | -8.1 | 13.1 | — | +5000 | — | — | RNP1 |
| 005 | TF | MAIKO | — | 296 (287.7) | -8.1 | 3.3 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | BB400 | — | — | -8.1 | — | L | — | — | — | RNP1 |
| 003 | TF | PUNIB | — | 356 (347.7) | -8.1 | 5.8 | — | +5000 | — | — | RNP1 |
| 004 | TF | MAIKO | — | 296 (287.7) | -8.1 | 3.3 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | R | — | -210 | — | RNP1 |
| 003 | TF | BB400 | — | 025 (016.7) | -8.1 | 5.7 | — | — | — | — | RNP1 |
| 004 | TF | PUNIB | — | 356 (347.7) | -8.1 | 5.8 | — | +5000 | — | — | RNP1 |
| 005 | TF | MAIKO | — | 296 (287.7) | -8.1 | 3.3 | — | — | — | — | RNP1 |

RWY24L

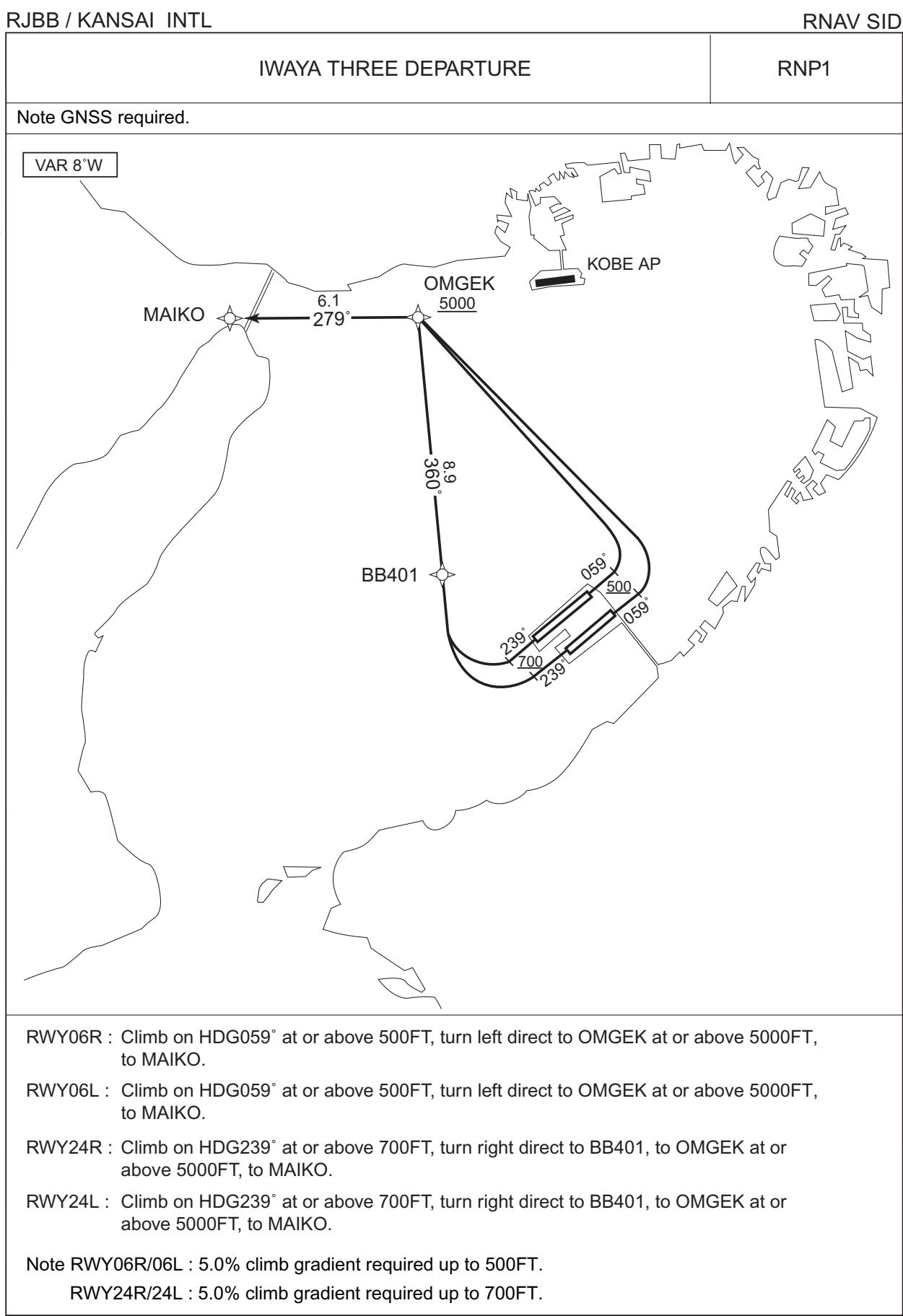
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001 | VA | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B4L10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | LELUS | — | — | -8.1 | — | R | — | -210 | — | RNP1 |
| 004 | TF | BB400 | — | 025 (016.7) | -8.1 | 5.7 | — | — | — | — | RNP1 |
| 005 | TF | PUNIB | — | 356 (347.7) | -8.1 | 5.8 | — | +5000 | — | — | RNP1 |
| 006 | TF | MAIKO | — | 296 (287.7) | -8.1 | 3.3 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | BB400 | 343002.3N / 1350507.5E |
| B6R11 | 343140.8N / 1351845.1E | PUNIB | 343539.8N / 1350337.8E |
| B4L10 | 342136.9N / 1350734.5E | MAIKO | 343639.7N 1345949.1E |
| LELUS | 342436.6N / 1350309.3E | | |

STANDARD DEPARTURE CHART - INSTRUMENT

CHANGE : PROC renamed. PROC course. BB401, OMGEK established. BB430, HELEN abolished.



STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

IWAYA THREE 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | OMGEK | — | — | -8.1 | — | L | +5000 | — | — | RNP1 |
| 003 | TF | MAIKO | — | 279 (271.4) | -8.1 | 6.1 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | OMGEK | — | — | -8.1 | — | L | +5000 | — | — | RNP1 |
| 003 | TF | MAIKO | — | 279 (271.4) | -8.1 | 6.1 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +700 | — | — | RNP1 |
| 002 | DF | BB401 | — | — | -8.1 | — | R | — | — | — | RNP1 |
| 003 | TF | OMGEK | — | 360 (351.8) | -8.1 | 8.9 | — | +5000 | — | — | RNP1 |
| 004 | TF | MAIKO | — | 279 (271.4) | -8.1 | 6.1 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +700 | — | — | RNP1 |
| 002 | DF | BB401 | — | — | -8.1 | — | R | — | — | — | RNP1 |
| 003 | TF | OMGEK | — | 360 (351.8) | -8.1 | 8.9 | — | +5000 | — | — | RNP1 |
| 004 | TF | MAIKO | — | 279 (271.4) | -8.1 | 6.1 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|------------------------|
| BB401 | 342742.8N / 1350844.5E |
| OMGEK | 343631.3N / 1350711.5E |
| MAIKO | 343639.7N / 1345949.1E |

CHANGE : PROC renamed. PROC course. BB401, OMGEK established. BB430, HELEN abolished.
 RWY06R, RWY06L Departure established. VAR. ALT restriction at OMGEK. Navigation Specification. Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

CHANGE: SHION N TRANSITION, WASYU N TRANSITION, HABAR N TRANSITION, HABAR TRANSITION, WASYU TRANSITION, SHION TRANSITION established. PROC course. VAR.

| SHION N TRANSITION / SOUJA TRANSITION WASYU N TRANSITION / HABAR N TRANSITION | | | | | | | | | | | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|-----|----|-------|---|---|------|---|---|---|---|---|------|-----|----|-------|---|----------------|------|------|---|---|---|---|------|-----|----|-------|---|----------------|------|------|---|---|---|---|------|-----|----|-------|---|----------------|------|------|---|---|---|---|------|
| Note GNSS required. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VAR 8° W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHION N TRANSITION From MAIKO, to OSRIX, to SHION. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Serial Number | 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 | MAIKO | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | OSRIX | — | 283 (274.6) | -8.1 | 10.9 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | SHION | — | 252 (244.3) | -8.1 | 27.2 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUJA TRANSITION From MAIKO, to OSRIX, to GUMID, to SOUJA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Serial Number | 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 | MAIKO | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | OSRIX | — | 283 (274.6) | -8.1 | 10.9 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | GUMID | — | 273 (265.3) | -8.1 | 36.4 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | TF | SOUJA | — | 290 (282.2) | -8.1 | 15.3 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WASYU N TRANSITION From MAIKO, to OSRIX, to SHION, to WASYU. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Serial Number | 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 | MAIKO | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | OSRIX | — | 283 (274.6) | -8.1 | 10.9 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | SHION | — | 252 (244.3) | -8.1 | 27.2 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | TF | WASYU | — | 282 (273.6) | -8.1 | 44.6 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HABAR N TRANSITION From MAIKO, to OSRIX, to SHION, to HABAR. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Serial Number | 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 | MAIKO | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | OSRIX | — | 283 (274.6) | -8.1 | 10.9 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | SHION | — | 252 (244.3) | -8.1 | 27.2 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 004 | TF | HABAR | — | 268 (259.4) | -8.1 | 35.0 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV TRANSITION

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| MAIKO | 343639.7N / 1345949.1E | SOUJA | 343738.6N / 1334422.5E |
| OSRIX | 343731.5N / 1344639.1E | WASYU | 342817.5N / 1332301.1E |
| SHION | 342542.1N / 1341657.4E | HABAR | 341909.7N / 1333519.6E |
| GUMID | 343425.8N / 1340234.0E | | |

CHANGE : Waypoint Coordinates added.

STANDARD DEPARTURE CHART - INSTRUMENT

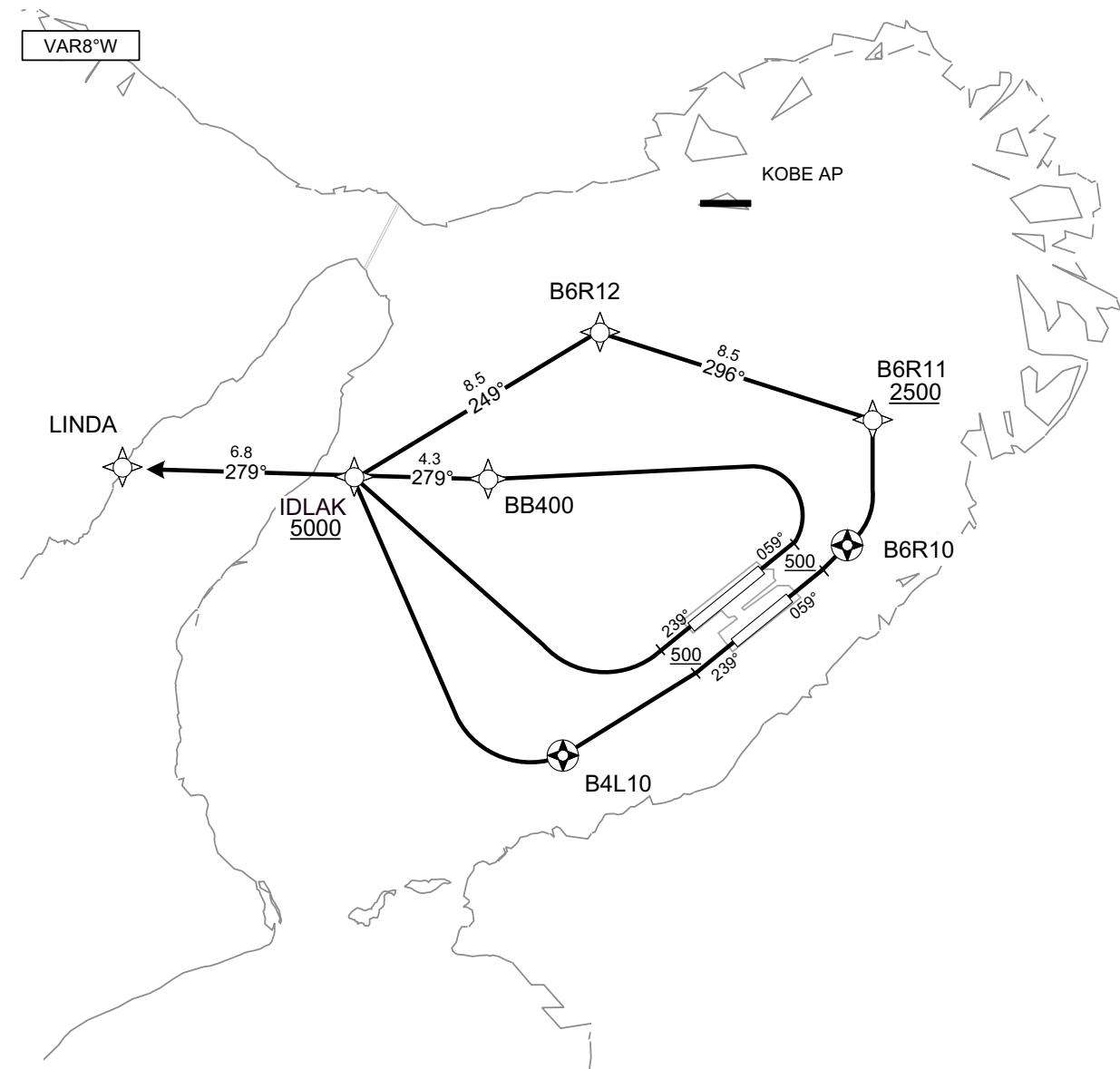
RJBB / KANSAI INTL

RNAV SID

LINDA ONE DEPARTURE

RNP1

Note GNSS required.



RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R12, to IDLAK at or above 5000FT, to LINDA.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to BB400, to IDLAK at or above 5000FT, to LINDA.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to IDLAK at or above 5000FT, to LINDA.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to IDLAK at or above 5000FT, to LINDA.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

LINDA 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6R10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | B6R11 | — | — | -8.1 | — | L | +2500 | — | — | RNP1 |
| 004 | TF | B6R12 | — | 296 (287.8) | -8.1 | 8.5 | — | — | — | — | RNP1 |
| 005 | TF | IDLAK | — | 249 (240.6) | -8.1 | 8.5 | — | +5000 | — | — | RNP1 |
| 006 | TF | LINDA | — | 279 (271.4) | -8.1 | 6.8 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | BB400 | — | — | -8.1 | — | L | — | — | — | RNP1 |
| 003 | TF | IDLAK | — | 279 (270.9) | -8.1 | 4.3 | — | +5000 | — | — | RNP1 |
| 004 | TF | LINDA | — | 279 (271.4) | -8.1 | 6.8 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | IDLAK | — | — | -8.1 | — | R | +5000 | — | — | RNP1 |
| 003 | TF | LINDA | — | 279 (271.4) | -8.1 | 6.8 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B4L10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | IDLAK | — | — | -8.1 | — | R | +5000 | — | — | RNP1 |
| 004 | TF | LINDA | — | 279 (271.4) | -8.1 | 6.8 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | B4L10 | 342136.9N / 1350734.5E |
| B6R11 | 343140.8N / 1351845.1E | IDLAK | 343006.2N / 1345953.0E |
| B6R12 | 343417.0N / 1350853.1E | LINDA | 343015.8N / 1345140.1E |
| BB400 | 343002.3N / 1350507.5E | | |

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

| RJBB / KANSAI INTL | | RNAV TRANSITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---------------------|------------------------|---------------------|--------------------|---------------------|----------------|---------------|------------------------|----------------|--------------------------|---------------|------------------------|----------------|--------------------------|-----|----|-------|---|---|------|---|---|---|---|---|------|-----|----|-------|---|-------------|------|------|---|---|---|---|------|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|-----|----|-------|---|---|------|---|---|---|---|---|------|-----|----|-------|---|-------------|------|------|---|---|---|---|------|-----|----|-------|---|-------------|------|------|---|---|---|---|------|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|-----|----|-------|---|---|------|---|---|---|---|---|------|-----|----|-------|---|-------------|------|------|---|---|---|---|------|-----|----|-------|---|-------------|------|------|---|---|---|---|------|
| SHION D TRANSITION / WASYU D TRANSITION / HABAR D TRANSITION | | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note GNSS required. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHION D TRANSITION From LINDA, to SHION. <table border="1"> <thead> <tr> <th>Serial Number</th><th>Path Descriptor</th><th>Waypoint Identifier</th><th>Fly Over</th><th>Course °M(°T)</th><th>Magnetic Variation</th><th>Distance (NM)</th><th>Turn Direction</th><th>Altitude (FT)</th><th>Speed (KIAS)</th><th>Vertical Angle</th><th>Navigation Specification</th></tr> </thead> <tbody> <tr> <td>001</td><td>IF</td><td>LINDA</td><td>—</td><td>—</td><td>-8.1</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> <tr> <td>002</td><td>TF</td><td>SHION</td><td>—</td><td>269 (261.1)</td><td>-8.1</td><td>29.0</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> </tbody> </table> WASYU D TRANSITION From LINDA, to SHION, to WASYU. <table border="1"> <thead> <tr> <th>Serial Number</th><th>Path Descriptor</th><th>Waypoint Identifier</th><th>Fly Over</th><th>Course °M(°T)</th><th>Magnetic Variation</th><th>Distance (NM)</th><th>Turn Direction</th><th>Altitude (FT)</th><th>Speed (KIAS)</th><th>Vertical Angle</th><th>Navigation Specification</th></tr> </thead> <tbody> <tr> <td>001</td><td>IF</td><td>LINDA</td><td>—</td><td>—</td><td>-8.1</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> <tr> <td>002</td><td>TF</td><td>SHION</td><td>—</td><td>269 (261.1)</td><td>-8.1</td><td>29.0</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> <tr> <td>003</td><td>TF</td><td>WASYU</td><td>—</td><td>282 (273.6)</td><td>-8.1</td><td>44.6</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> </tbody> </table> HABAR D TRANSITION From LINDA, to SHION, to HABAR. <table border="1"> <thead> <tr> <th>Serial Number</th><th>Path Descriptor</th><th>Waypoint Identifier</th><th>Fly Over</th><th>Course °M(°T)</th><th>Magnetic Variation</th><th>Distance (NM)</th><th>Turn Direction</th><th>Altitude (FT)</th><th>Speed (KIAS)</th><th>Vertical Angle</th><th>Navigation Specification</th></tr> </thead> <tbody> <tr> <td>001</td><td>IF</td><td>LINDA</td><td>—</td><td>—</td><td>-8.1</td><td>—</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> <tr> <td>002</td><td>TF</td><td>SHION</td><td>—</td><td>269 (261.1)</td><td>-8.1</td><td>29.0</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> <tr> <td>003</td><td>TF</td><td>HABAR</td><td>—</td><td>268 (259.4)</td><td>-8.1</td><td>35.0</td><td>—</td><td>—</td><td>—</td><td>—</td><td>RNP1</td></tr> </tbody> </table> | | | | Serial Number | 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 | LINDA | — | — | -8.1 | — | — | — | — | — | RNP1 | 002 | TF | SHION | — | 269 (261.1) | -8.1 | 29.0 | — | — | — | — | RNP1 | Serial Number | 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 | LINDA | — | — | -8.1 | — | — | — | — | — | RNP1 | 002 | TF | SHION | — | 269 (261.1) | -8.1 | 29.0 | — | — | — | — | RNP1 | 003 | TF | WASYU | — | 282 (273.6) | -8.1 | 44.6 | — | — | — | — | RNP1 | Serial Number | 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 | LINDA | — | — | -8.1 | — | — | — | — | — | RNP1 | 002 | TF | SHION | — | 269 (261.1) | -8.1 | 29.0 | — | — | — | — | RNP1 | 003 | TF | HABAR | — | 268 (259.4) | -8.1 | 35.0 | — | — | — | — | RNP1 |
| Serial Number | 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 | LINDA | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | SHION | — | 269 (261.1) | -8.1 | 29.0 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number | 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 | LINDA | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | SHION | — | 269 (261.1) | -8.1 | 29.0 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | WASYU | — | 282 (273.6) | -8.1 | 44.6 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number | 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 | LINDA | — | — | -8.1 | — | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 002 | TF | SHION | — | 269 (261.1) | -8.1 | 29.0 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 003 | TF | HABAR | — | 268 (259.4) | -8.1 | 35.0 | — | — | — | — | RNP1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINDA | 343015.8N / 1345140.1E | WASYU | 342817.5N / 1332301.1E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHION | 342542.1N / 1341657.4E | HABAR | 341909.7N / 1333519.6E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

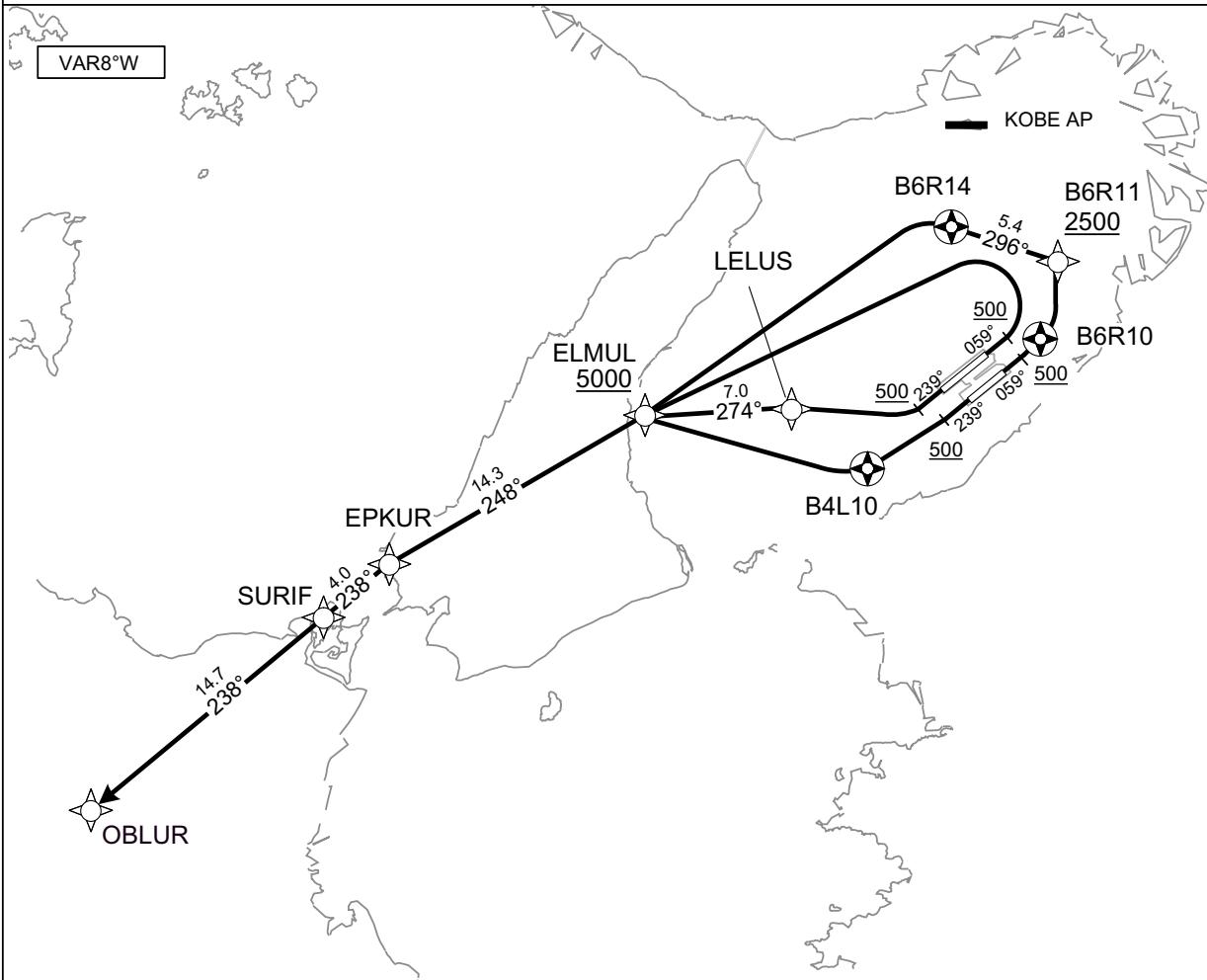
RJBB / KANSAI INTL

RNAV SID

OBLUR ONE DEPARTURE

RNP1

Note GNSS required.



- RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.
- RWY06L : Climb on HDG059° at or above 500FT, turn left direct to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.
- RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.
- RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, turn right direct to ELMUL at or above 5000FT, to EPKUR, to SURIF, to OBLUR.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

OBLUR 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6R10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | B6R11 | — | — | -8.1 | — | L | +2500 | — | — | RNP1 |
| 004 | TF | B6R14 | Y | 296 (287.8) | -8.1 | 5.4 | — | — | — | — | RNP1 |
| 005 | DF | ELMUL | — | — | -8.1 | — | L | +5000 | — | — | RNP1 |
| 006 | TF | EPKUR | — | 248 (240.1) | -8.1 | 14.3 | — | — | — | — | RNP1 |
| 007 | TF | SURIF | — | 238 (230.0) | -8.1 | 4.0 | — | — | — | — | RNP1 |
| 008 | TF | OBLUR | — | 238 (230.0) | -8.1 | 14.7 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | ELMUL | — | — | -8.1 | — | L | +5000 | — | — | RNP1 |
| 003 | TF | EPKUR | — | 248 (240.1) | -8.1 | 14.3 | — | — | — | — | RNP1 |
| 004 | TF | SURIF | — | 238 (230.0) | -8.1 | 4.0 | — | — | — | — | RNP1 |
| 005 | TF | OBLUR | — | 238 (230.0) | -8.1 | 14.7 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | R | — | — | — | RNP1 |
| 003 | TF | ELMUL | — | 274 (266.4) | -8.1 | 7.0 | — | +5000 | — | — | RNP1 |
| 004 | TF | EPKUR | — | 248 (240.1) | -8.1 | 14.3 | — | — | — | — | RNP1 |
| 005 | TF | SURIF | — | 238 (230.0) | -8.1 | 4.0 | — | — | — | — | RNP1 |
| 006 | TF | OBLUR | — | 238 (230.0) | -8.1 | 14.7 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B4L10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | ELMUL | — | — | -8.1 | — | R | +5000 | — | — | RNP1 |
| 004 | TF | EPKUR | — | 248 (240.1) | -8.1 | 14.3 | — | — | — | — | RNP1 |
| 005 | TF | SURIF | — | 238 (230.0) | -8.1 | 4.0 | — | — | — | — | RNP1 |
| 006 | TF | OBLUR | — | 238 (230.0) | -8.1 | 14.7 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | ELMUL | 342410.0N / 1345444.1E |
| B6R11 | 343140.8N / 1351845.1E | EPKUR | 341700.9N / 1343944.0E |
| B6R14 | 343320.1N / 1351229.1E | SURIF | 341426.6N / 1343601.7E |
| LELUS | 342436.6N / 1350309.3E | OBLUR | 340459.0N / 1342227.0E |
| B4L10 | 342136.9N / 1350734.5E | | |

CHANGE : New PROC.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

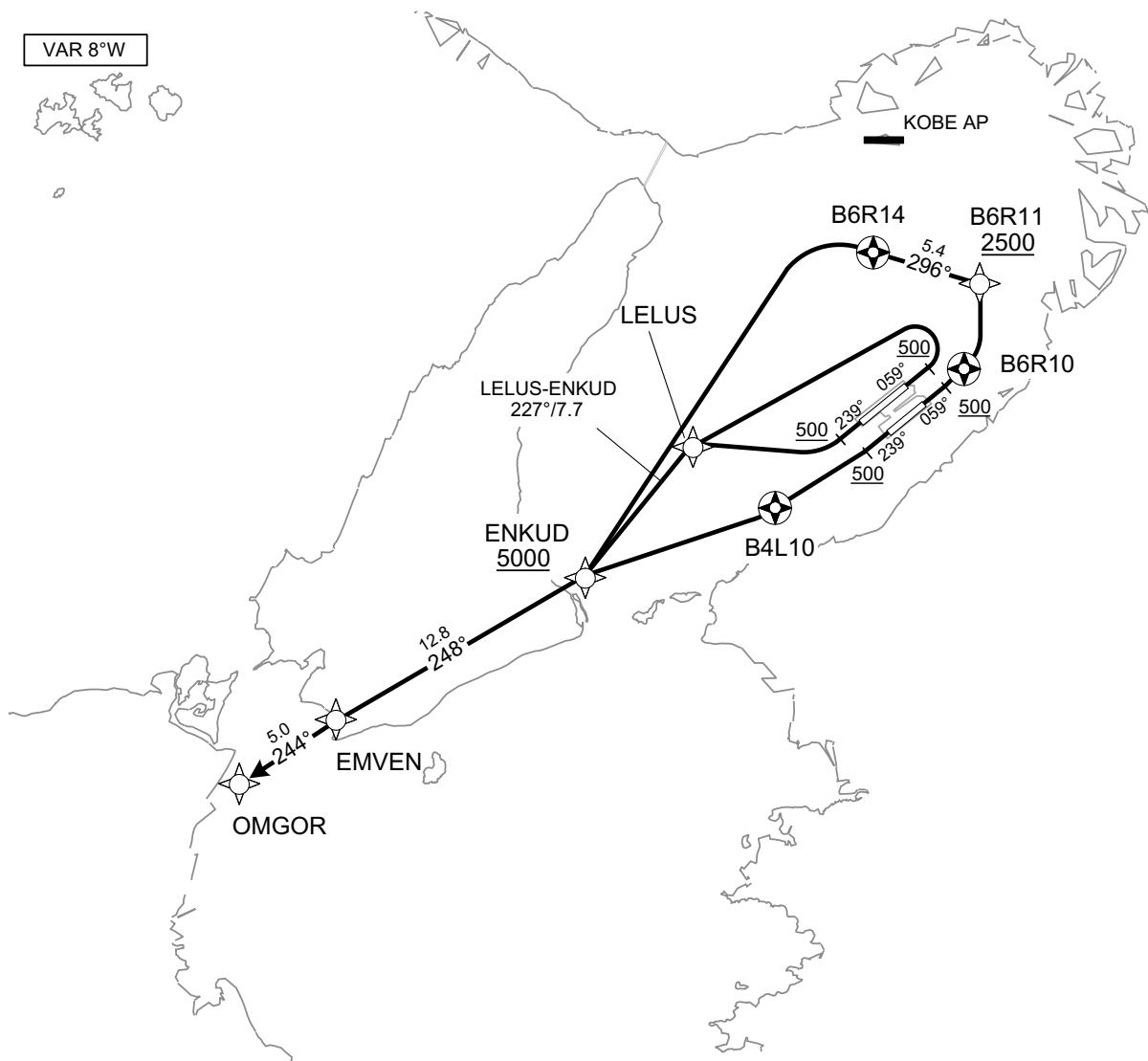
RNAV SID

OMGOR ONE DEPARTURE

RNP1

Note GNSS required.

VAR 8°W



CHANGE : New PROC.

RWY06R : Climb on HDG059° at or above 500FT, direct to B6R10, turn left direct to B6R11 at or above 2500FT, to B6R14, turn left direct to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

RWY06L : Climb on HDG059° at or above 500FT, turn left direct to LELUS, to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

RWY24R : Climb on HDG239° at or above 500FT, turn right direct to LELUS, to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

RWY24L : Climb on HDG239° at or above 500FT, direct to B4L10, direct to ENKUD at or above 5000FT, to EMVEN, to OMGOR.

Note RWY06R/06L/24R/24L : 5.0% climb gradient required up to 500FT.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV SID

OMGOR 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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B6R10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | B6R11 | — | — | -8.1 | — | L | +2500 | — | — | RNP1 |
| 004 | TF | B6R14 | Y | 296 (287.8) | -8.1 | 5.4 | — | — | — | — | RNP1 |
| 005 | DF | ENKUD | — | — | -8.1 | — | L | +5000 | — | — | RNP1 |
| 006 | TF | EMVEN | — | 248 (240.1) | -8.1 | 12.8 | — | — | — | — | RNP1 |
| 007 | TF | OMGOR | — | 244 (235.6) | -8.1 | 5.0 | — | — | — | — | RNP1 |

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 | — | — | 059 (050.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | L | — | — | — | RNP1 |
| 003 | TF | ENKUD | — | 227 (218.6) | -8.1 | 7.7 | — | +5000 | — | — | RNP1 |
| 004 | TF | EMVEN | — | 248 (240.1) | -8.1 | 12.8 | — | — | — | — | RNP1 |
| 005 | TF | OMGOR | — | 244 (235.6) | -8.1 | 5.0 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | LELUS | — | — | -8.1 | — | R | — | — | — | RNP1 |
| 003 | TF | ENKUD | — | 227 (218.6) | -8.1 | 7.7 | — | +5000 | — | — | RNP1 |
| 004 | TF | EMVEN | — | 248 (240.1) | -8.1 | 12.8 | — | — | — | — | RNP1 |
| 005 | TF | OMGOR | — | 244 (235.6) | -8.1 | 5.0 | — | — | — | — | RNP1 |

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 | — | — | 239 (230.9) | -8.1 | — | — | +500 | — | — | RNP1 |
| 002 | DF | B4L10 | Y | — | -8.1 | — | — | — | — | — | RNP1 |
| 003 | DF | ENKUD | — | — | -8.1 | — | — | +5000 | — | — | RNP1 |
| 004 | TF | EMVEN | — | 248 (240.1) | -8.1 | 12.8 | — | — | — | — | RNP1 |
| 005 | TF | OMGOR | — | 244 (235.6) | -8.1 | 5.0 | — | — | — | — | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| B6R10 | 342759.6N / 1351746.0E | B4L10 | 342136.9N / 1350734.5E |
| B6R11 | 343140.8N / 1351845.1E | ENKUD | 341833.8N / 1345719.3E |
| B6R14 | 343320.1N / 1351229.1E | EMVEN | 341209.7N / 1344353.3E |
| LELUS | 342436.6N / 1350309.3E | OMGOR | 340920.3N / 1343854.4E |

CHANGE : New PROC.

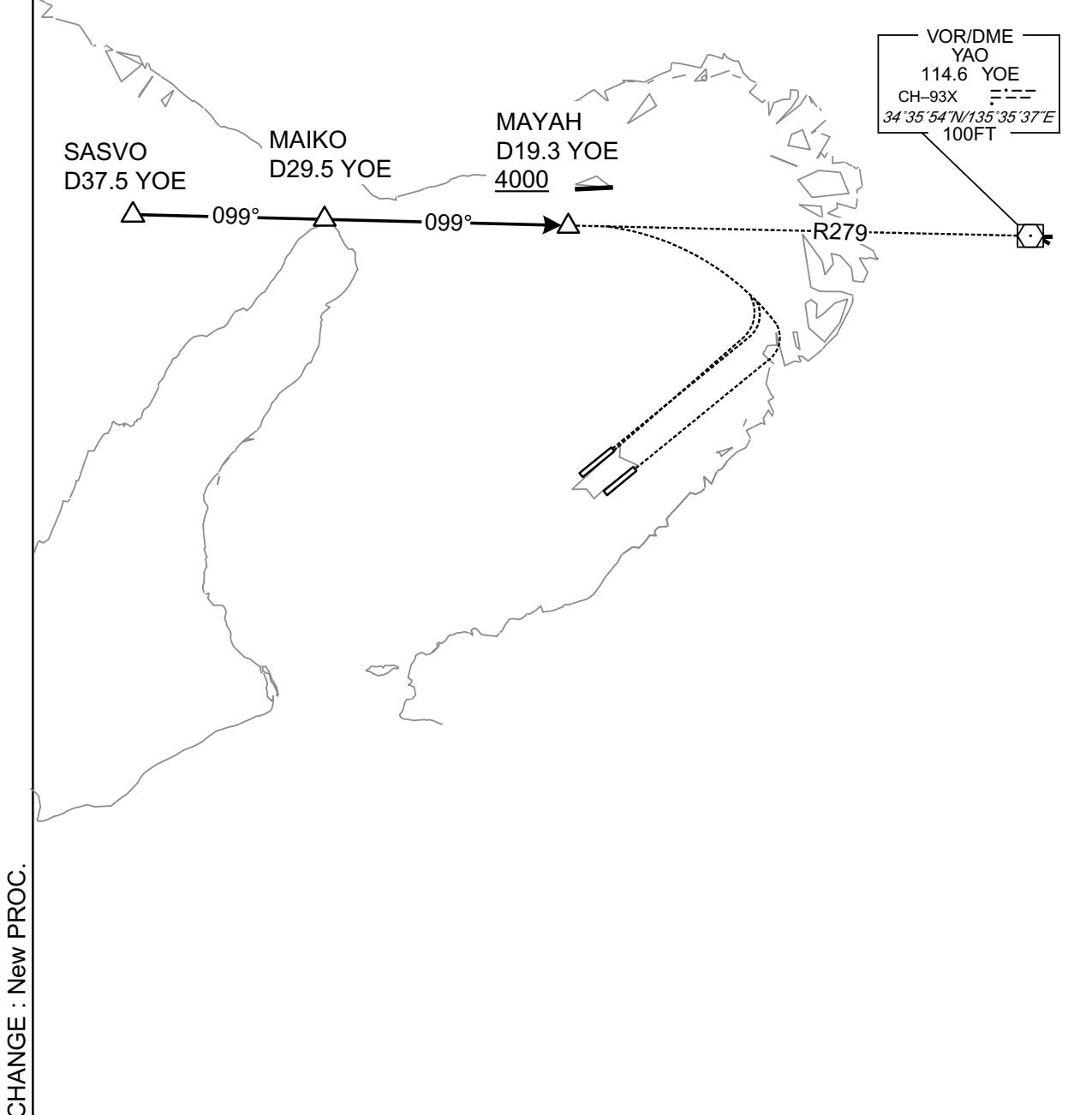
STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

STAR

SASVO ARRIVAL

From over SASVO, proceed via YOE R279 to MAYAH via MAIKO.
Cross MAYAH at or above 4000FT.



STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

STAR

TOKUSHIMA ARRIVAL

From over TSC VORTAC, proceed via TSC R093 to GATES.
 Cross GATES at or above 4000FT.

VORTAC
 TOKUSHIMA
 114.9 TSC
 CH-96X E:-:
 $34^{\circ}07'47"N/134^{\circ}36'31"E$
 0FT

093° →
GATES
 D10.4 TSC
4000

VOR/DME
 KANSAI
 111.6 KIE
 CH-53X -:-
 $34^{\circ}25'33"N/135^{\circ}12'28"E$
 0FT

KANSAI
 VOR/DME
 (KIE)
GATES
 D25.9 KIE
 KIE R236
 056° ←
 236° ←
 D31.0 KIE
 MHA 4000/MAX 230KIAS

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

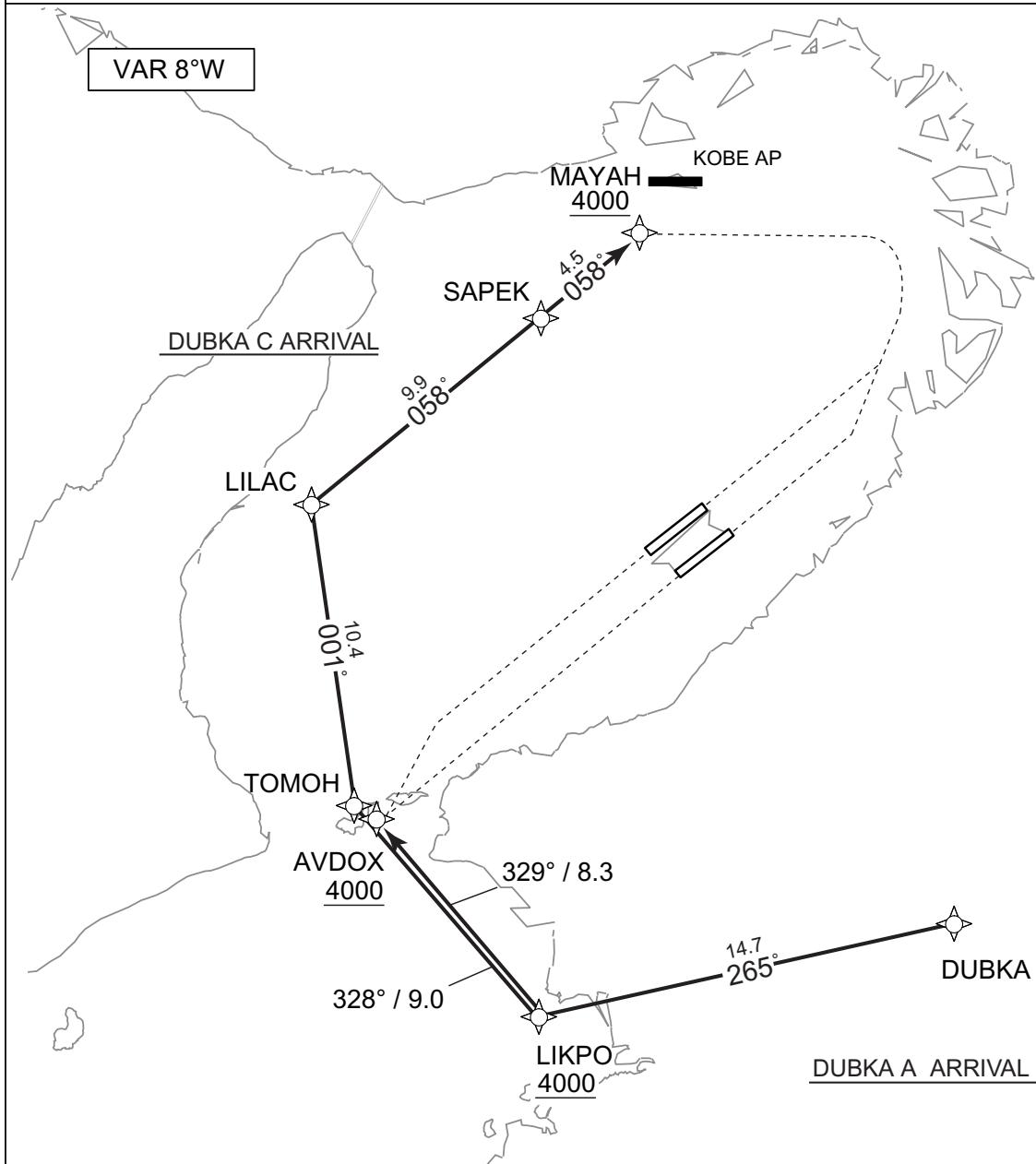
RJBB / KANSAI INTL

RNAV STAR

DUBKA A ARRIVAL
DUBKA C ARRIVAL

RNP1

Note GNSS required.



CHANGE : New PROC.

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

LILAC

NOT TO SCALE

057° 231° MHA 3000

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

NOT TO SCALE

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

DUBKA

271° 091° MHA 8000

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

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR

DUBKA A ARRIVAL

From DUBKA, to LIKPO at or above 4000FT, to AVDOX at or above 4000FT.

| Serial Number | 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 | DUBKA | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | LIKPO | — | 265 (257.3) | -8.1 | 14.7 | — | +4000 | — | — | RNP1 |
| 003 | TF | AVDOX | — | 329 (321.1) | -8.1 | 8.3 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | DUBKA | 271 (262.6) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 8000 | — | -230(-14000) -240(+14001) | RNP1 |

DUBKA C ARRIVAL

From DUBKA, to LIKPO at or above 4000FT, to TOMOH, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | DUBKA | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | LIKPO | — | 265 (257.3) | -8.1 | 14.7 | — | +4000 | — | — | RNP1 |
| 003 | TF | TOMOH | — | 328 (320.4) | -8.1 | 9.0 | — | — | — | — | RNP1 |
| 004 | TF | LILAC | — | 001 (352.6) | -8.1 | 10.4 | — | — | — | — | RNP1 |
| 005 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 006 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | DUBKA | 271 (262.6) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 8000 | — | -230(-14000) -240(+14001) | RNP1 |
| Hold | LILAC | 057 (049.0) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 3000 | — | -230(-14000) -240(+14001) | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| DUBKA | 341309.4N / 1352433.9E | LILAC | 342710.7N / 1345842.0E |
| LIKPO | 340955.3N / 1350715.9E | SAPEK | 343331.6N / 1350758.6E |
| AVDOX | 341624.1N / 1350055.5E | MAYAH | 343623.7N / 1351211.0E |
| TOMOH | 341649.6N / 1350020.3E | | |

CHANGE : New PROC.

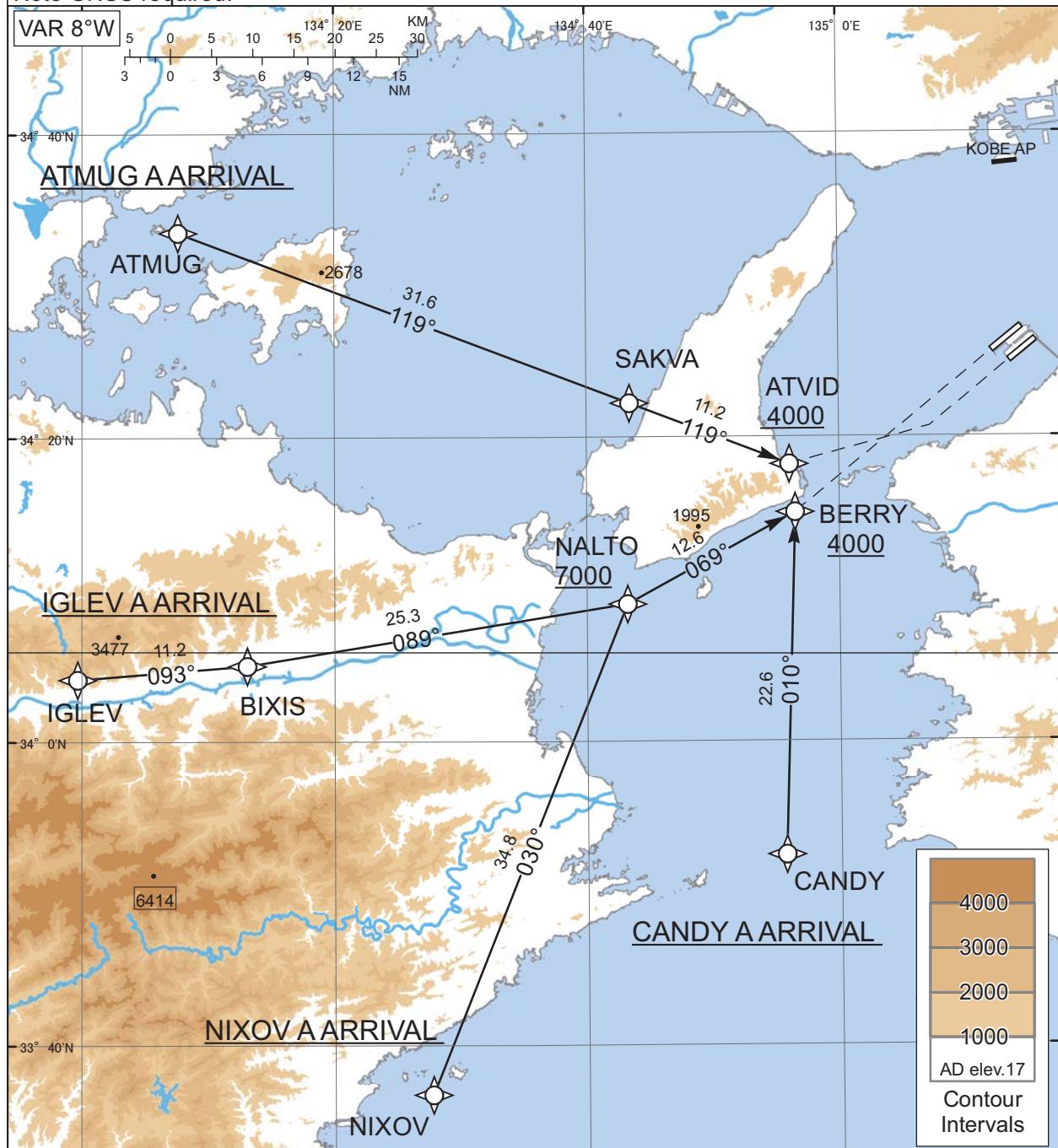
STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

RNP1

Note GNSS required.



CHANGE : New PROC.

| | | | |
|--|--|--|--|
| 1MIN(at or below FL140) 1.5MIN(above FL140) | 1MIN(at or below FL140) 1.5MIN(above FL140) | 1MIN(at or below FL140) 1.5MIN(above FL140) | MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) |
| NOT TO SCALE | NOT TO SCALE | NOT TO SCALE | NOT TO SCALE |

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

CANDY A ARRIVAL

From CANDY, to BERRY at or above 4000FT.

| Serial Number | 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 | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | BERRY | - | 010 (001.7) | -8.1 | 22.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | CANDY | 322 (314.0) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 9000 | - | -230 (-14000) -240 (+14001) | RNP1 |

NIXOV A ARRIVAL

From NIXOV, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | NIXOV | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | NALTO | - | 030 (021.7) | -8.1 | 34.8 | - | +7000 | - | - | RNP1 |
| 003 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | NIXOV | 064 (055.4) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 9000 | - | -230 (-14000) -240 (+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

IGLEV A ARRIVAL

From IGLEV, to BIXIS, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | IGLEV | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | BIXIS | - | 093 (085.3) | -8.1 | 11.2 | - | - | - | - | RNP1 |
| 003 | TF | NALTO | - | 089 (080.7) | -8.1 | 25.3 | - | +7000 | - | - | RNP1 |
| 004 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | IGLEV | 093 (085.2) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 11000 | - | -230 (-14000) -240 (+14001) | RNP1 |

ATMUG A ARRIVAL

From ATMUG, to SAKVA, to ATVID at or above 4000FT.

| Serial Number | 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 | ATMUG | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | SAKVA | - | 119 (110.7) | -8.1 | 31.6 | - | - | - | - | RNP1 |
| 003 | TF | ATVID | - | 119 (111.1) | -8.1 | 11.2 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | ATMUG | 181 (172.5) | -8.1 | 1.0 (-14000) 1.5 (+14001) | R | 10000 | - | -230 (-14000) -240 (+14001) | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| CANDY | 335229.8N / 1345541.8E | ATMUG | 343330.0N / 1340737.4E |
| NIXOV | 333644.5N / 1342743.1E | SAKVA | 342213.8N / 1344325.4E |
| IGLEV | 340405.2N / 1335940.5E | ATVID | 341811.4N / 1345605.1E |
| BIXIS | 340459.0N / 1341305.7E | | |
| NALTO | 340900.6N / 1344313.3E | | |
| BERRY | 341502.0N / 1345631.6E | | |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT



STANDARD ARRIVAL CHART - INSTRUMENT

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RNAV STAR RWY06L/06R

DUBKA B ARRIVAL

From DUBKA, to LIKPO, to BOTRA, to BIKLO at 10000FT, to BB650, to BB651, to BB652, to APORA at 10000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | DUBKA | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | LIKPO | - | 265 (257.3) | -8.1 | 14.7 | - | - | - | - | RNP1 |
| 003 | TF | BOTRA | - | 219 (211.2) | -8.1 | 29.6 | - | - | - | - | RNP1 |
| 004 | TF | BIKLO | - | 278 (269.7) | -8.1 | 11.4 | - | 10000 | 230 | - | RNP1 |
| 005 | TF | BB650 | - | 344 (335.5) | -8.1 | 8.6 | - | - | - | - | RNP1 |
| 006 | TF | BB651 | - | 321 (313.0) | -8.1 | 7.6 | - | - | - | - | RNP1 |
| 007 | TF | BB652 | - | 343 (335.4) | -8.1 | 7.6 | - | - | - | - | RNP1 |
| 008 | TF | APORA | - | 006 (357.7) | -8.1 | 7.6 | - | 10000 | 230 | - | RNP1 |
| 009 | TF | NALTO | - | 107 (099.0) | -8.1 | 19.5 | - | +7000 | - | - | RNP1 |
| 010 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | DUBKA | 271 (262.6) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 10000 | - | -230 (-14000) -240 (+14001) | RNP1 |
| Hold | BOTRA | 278 (269.8) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 10000 | - | -230 (-14000) -240 (+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

EVERT B ARRIVAL

From EVERT, to BOTRA, to BIKLO at 10000FT, to BB650, to BB651, to BB652, to APORA at 10000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | EVERT | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | BOTRA | - | 296 (288.3) | -8.1 | 16.8 | - | - | - | - | RNP1 |
| 003 | TF | BIKLO | - | 278 (269.7) | -8.1 | 11.4 | - | 10000 | 230 | - | RNP1 |
| 004 | TF | BB650 | - | 344 (335.5) | -8.1 | 8.6 | - | - | - | - | RNP1 |
| 005 | TF | BB651 | - | 321 (313.0) | -8.1 | 7.6 | - | - | - | - | RNP1 |
| 006 | TF | BB652 | - | 343 (335.4) | -8.1 | 7.6 | - | - | - | - | RNP1 |
| 007 | TF | APORA | - | 006 (357.7) | -8.1 | 7.6 | - | 10000 | 230 | - | RNP1 |
| 008 | TF | NALTO | - | 107 (099.0) | -8.1 | 19.5 | - | +7000 | - | - | RNP1 |
| 009 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | BOTRA | 278 (269.8) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 10000 | - | -230 (-14000) -240 (+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

NIXOV B ARRIVAL

From NIXOV, to BIKLO at 10000FT, to BB650, to BB651, to BB652, to APORA at 10000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | NIXOV | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | BIKLO | - | 047 (038.5) | -8.1 | 10.0 | - | 10000 | 230 | - | RNP1 |
| 003 | TF | BB650 | - | 344 (335.5) | -8.1 | 8.6 | - | - | - | - | RNP1 |
| 004 | TF | BB651 | - | 321 (313.0) | -8.1 | 7.6 | - | - | - | - | RNP1 |
| 005 | TF | BB652 | - | 343 (335.4) | -8.1 | 7.6 | - | - | - | - | RNP1 |
| 006 | TF | APORA | - | 006 (357.7) | -8.1 | 7.6 | - | 10000 | 230 | - | RNP1 |
| 007 | TF | NALTO | - | 107 (099.0) | -8.1 | 19.5 | - | +7000 | - | - | RNP1 |
| 008 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | NIXOV | 064 (055.4) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 10000 | - | -230 (-14000) -240 (+14001) | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| DUBKA | 341309.4N / 1352433.9E | BB650 | 335222.2N / 1343055.0E |
| LIKPO | 340955.3N / 1350715.9E | BB651 | 335732.9N / 1342412.3E |
| EVERT | 333925.1N / 1350759.1E | BB652 | 340428.4N / 1342022.2E |
| BOTRA | 334438.7N / 1344851.0E | APORA | 341205.5N / 1342000.2E |
| NIXOV | 333644.5N / 1342743.1E | NALTO | 340900.6N / 1344313.3E |
| BIKLO | 334434.0N / 1343512.4E | BERRY | 341502.0N / 1345631.6E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

RNP1

Note GNSS required.



CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

IGLEV B ARRIVAL

From IGLEV, to BIXIS at 12000FT, to BB653, to BB654, to BB655, to IGDIN at 12000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | IGLEV | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | BIXIS | - | 093 (085.3) | -8.1 | 11.2 | - | 12000 | 230 | - | RNP1 |
| 003 | TF | BB653 | - | 097 (088.7) | -8.1 | 8.9 | - | - | - | - | RNP1 |
| 004 | TF | BB654 | - | 163 (155.4) | -8.1 | 6.5 | - | - | - | - | RNP1 |
| 005 | TF | BB655 | - | 141 (132.9) | -8.1 | 6.4 | - | - | - | - | RNP1 |
| 006 | TF | IGDIN | - | 119 (110.4) | -8.1 | 6.4 | - | 12000 | 230 | - | RNP1 |
| 007 | TF | NALTO | - | 017 (009.1) | -8.1 | 16.5 | - | +7000 | - | - | RNP1 |
| 008 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | IGLEV | 093 (085.2) | -8.1 | 1.0 (-14000) 1.5 (+14001) | L | 12000 | - | -230 (-14000) -240 (+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY06L/06R

ATMUG B ARRIVAL

From ATMUG, to BIXUR at 11000FT, to BB656, to BB657, to BB658, to BB659, to ISNES at 11000FT, to NALTO at or above 7000FT, to BERRY at or above 4000FT.

| Serial Number | 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 | ATMUG | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | BIXUR | - | 158 (149.4) | -8.1 | 15.6 | - | 11000 | 230 | - | RNP1 |
| 003 | TF | BB656 | - | 163 (155.3) | -8.1 | 9.1 | - | - | - | - | RNP1 |
| 004 | TF | BB657 | - | 186 (177.7) | -8.1 | 7.0 | - | - | - | - | RNP1 |
| 005 | TF | BB658 | - | 163 (155.3) | -8.1 | 7.0 | - | - | - | - | RNP1 |
| 006 | TF | BB659 | - | 141 (132.9) | -8.1 | 7.0 | - | - | - | - | RNP1 |
| 007 | TF | ISNES | - | 119 (110.4) | -8.1 | 7.0 | - | 11000 | 230 | - | RNP1 |
| 008 | TF | NALTO | - | 017 (009.1) | -8.1 | 18.0 | - | +7000 | - | - | RNP1 |
| 009 | TF | BERRY | - | 069 (061.2) | -8.1 | 12.6 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|------------------------------|----------------|-----------------------|-----------------------|--------------------------------|--------------------------|
| Hold | BIXUR | 158 (149.5) | -8.1 | 1.0 (-14000) 1.5 (+14001) | R | 11000 | - | -230 (-14000) -240 (+14001) | RNP1 |

Waypoint Coordinates

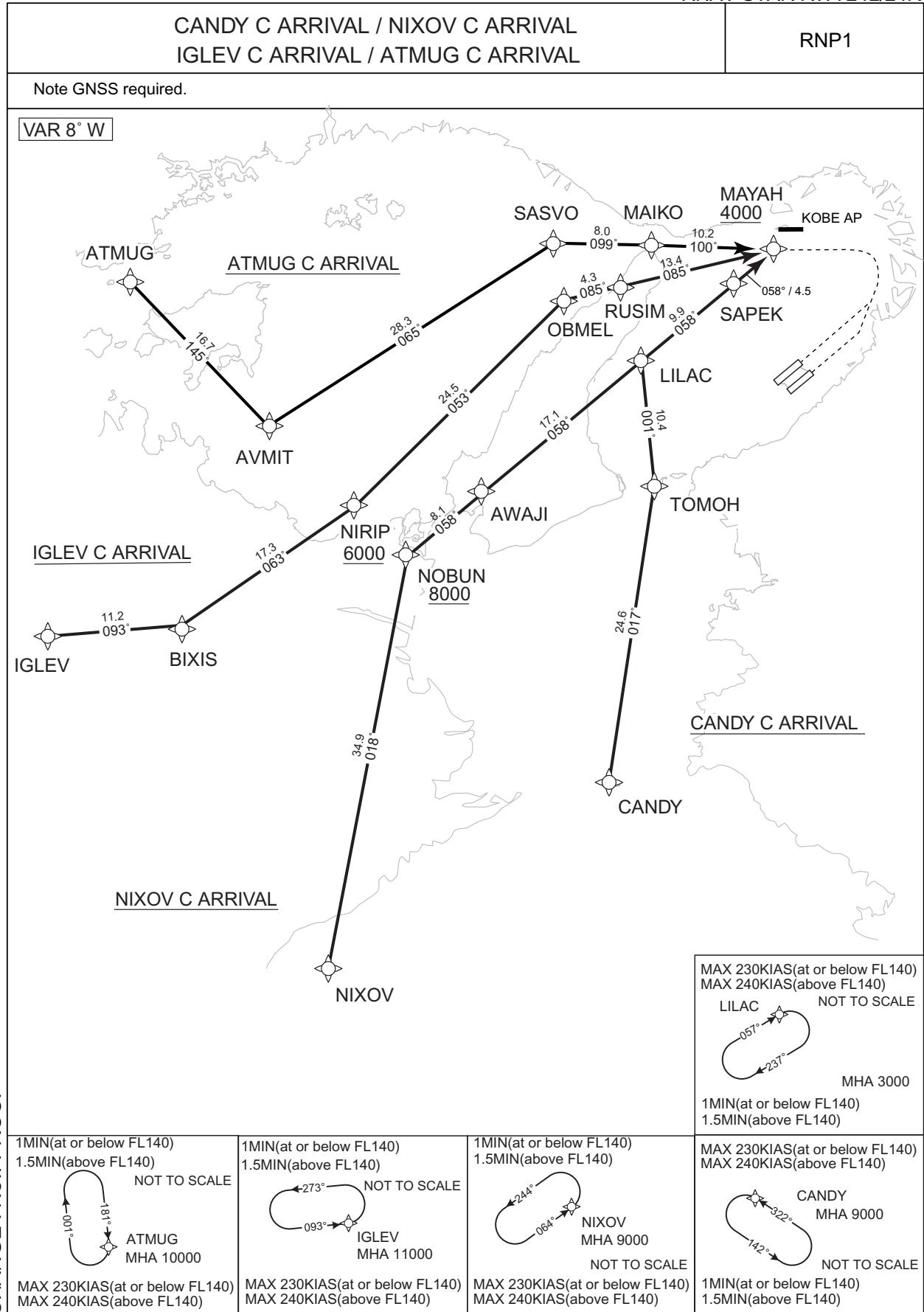
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| IGLEV | 340405.2N / 1335940.5E | BB656 | 341151.4N / 1342147.5E |
| BIXIS | 340459.0N / 1341305.7E | BB657 | 340449.4N / 1342207.5E |
| BB653 | 340510.5N / 1342352.9E | BB658 | 335825.9N / 1342539.9E |
| BB654 | 335918.9N / 1342707.5E | BB659 | 335339.0N / 1343151.6E |
| BB655 | 335455.8N / 1343248.3E | ISNES | 335112.0N / 1343946.3E |
| IGDIN | 335241.1N / 1344003.5E | NALTO | 340900.6N / 1344313.3E |
| ATMUG | 343330.0N / 1340737.4E | BERRY | 341502.0N / 1345631.6E |
| BIXUR | 342006.7N / 1341711.9E | | |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R



STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY C ARRIVAL

From CANDY, to TOMOH, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | TOMOH | — | 017 (009.0) | -8.1 | 24.6 | — | — | — | — | RNP1 |
| 003 | TF | LILAC | — | 001 (352.6) | -8.1 | 10.4 | — | — | — | — | RNP1 |
| 004 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 005 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | CANDY | 322 (314.0) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 9000 | — | -230(-14000) -240(+14001) | RNP1 |
| Hold | LILAC | 057 (049.0) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 3000 | — | -230(-14000) -240(+14001) | RNP1 |

NIXOV C ARRIVAL

From NIXOV, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | NIXOV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | NOBUN | — | 018 (010.4) | -8.1 | 34.9 | — | +8000 | — | — | RNP1 |
| 003 | TF | AWAJI | — | 058 (050.0) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 004 | TF | LILAC | — | 058 (050.1) | -8.1 | 17.1 | — | — | — | — | RNP1 |
| 005 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 006 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | NIXOV | 064 (055.4) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 9000 | — | -230(-14000) -240(+14001) | RNP1 |
| Hold | LILAC | 057 (049.0) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 3000 | — | -230(-14000) -240(+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV C ARRIVAL

From IGLEV, to BIXIS, to NIRIP at or above 6000FT, to OBMEL, to RUSIM, to MAYAH at or above 4000FT.

| Serial Number | 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 | IGLEV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | BIXIS | — | 093 (085.3) | -8.1 | 11.2 | — | — | — | — | RNP1 |
| 003 | TF | NIRIP | — | 063 (054.5) | -8.1 | 17.3 | — | +6000 | — | — | RNP1 |
| 004 | TF | OBMEL | — | 053 (045.0) | -8.1 | 24.5 | — | — | — | — | RNP1 |
| 005 | TF | RUSIM | — | 085 (076.6) | -8.1 | 4.3 | — | — | — | — | RNP1 |
| 006 | TF | MAYAH | — | 085 (076.6) | -8.1 | 13.4 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | IGLEV | 093 (085.2) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 11000 | — | -230(-14000) -240(+14001) | RNP1 |

ATMUG C ARRIVAL

From ATMUG, to AVMIT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

| Serial Number | 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 | ATMUG | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | AVMIT | — | 145 (136.7) | -8.1 | 16.7 | — | — | — | — | RNP1 |
| 003 | TF | SASVO | — | 065 (056.6) | -8.1 | 28.3 | — | — | — | — | RNP1 |
| 004 | TF | MAIKO | — | 099 (091.3) | -8.1 | 8.0 | — | — | — | — | RNP1 |
| 005 | TF | MAYAH | — | 100 (091.4) | -8.1 | 10.2 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | ATMUG | 181 (172.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 10000 | — | -230(-14000) -240(+14001) | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| CANDY | 335229.8N / 1345541.8E | NIRIP | 341501.5N / 1343009.3E |
| TOMOH | 341649.6N / 1350020.3E | OBMEL | 343218.2N / 1345112.1E |
| NIXOV | 333644.5N / 1342743.1E | RUSIM | 343318.4N / 1345618.9E |
| NOBUN | 341102.6N / 1343518.0E | ATMUG | 343330.0N / 1340737.4E |
| AWAJI | 341613.1N / 1344246.6E | AVMIT | 342122.5N / 1342128.3E |
| LILAC | 342710.7N / 1345842.0E | SASVO | 343651.4N / 1345007.5E |
| SAPEK | 343331.6N / 1350758.6E | MAIKO | 343639.7N / 1345949.1E |
| IGLEV | 340405.2N / 1335940.5E | MAYAH | 343623.7N / 1351211.0E |
| BIXIS | 340459.0N / 1341305.7E | | |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

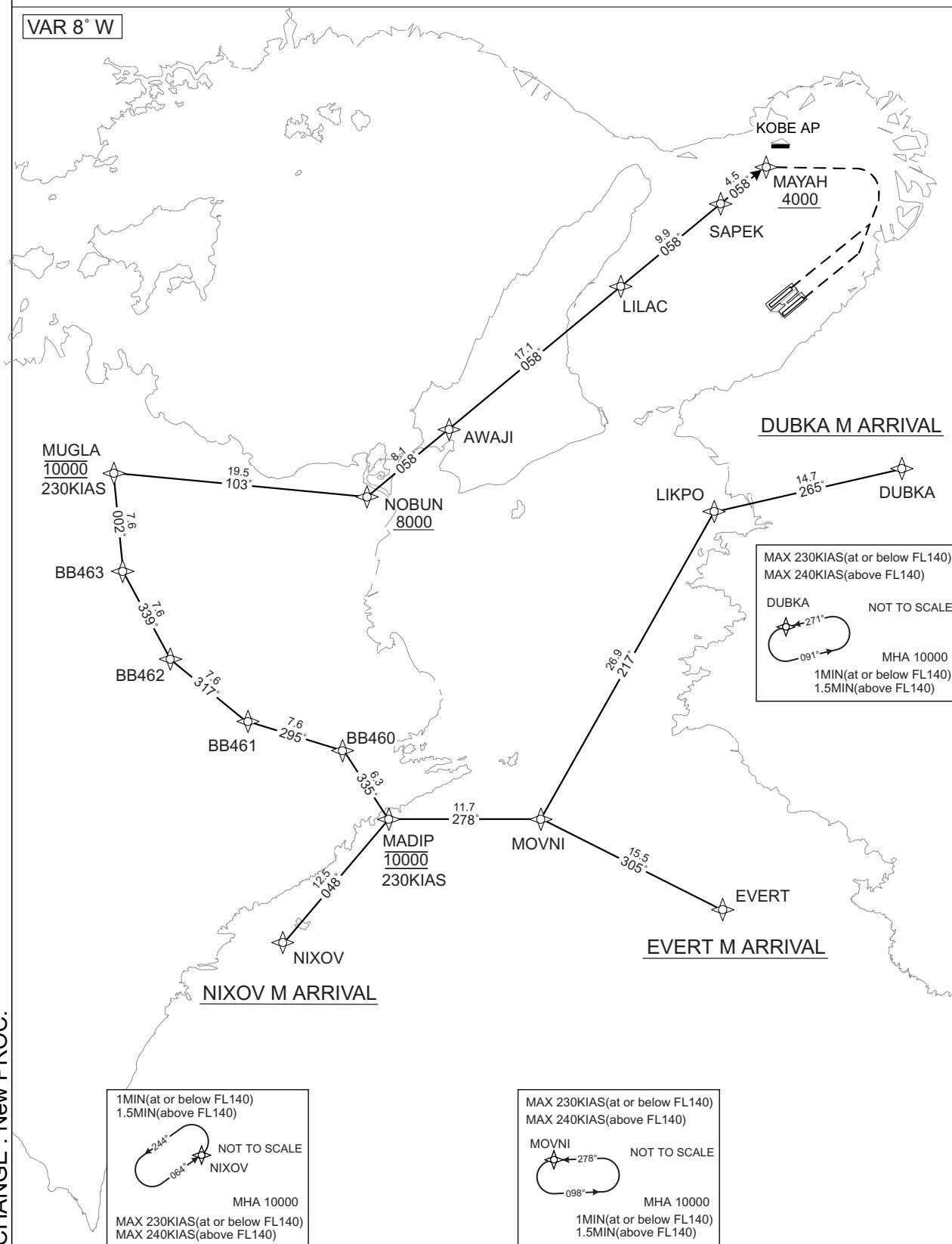
RNAV STAR RWY24L/24R

DUBKA M ARRIVAL / EVERT M ARRIVAL / NIXOV M ARRIVAL

RNP1

Note GNSS required.

VAR 8° W



CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

DUBKA M ARRIVAL

From DUBKA, to LIKPO, to MOVNI, to MADIP at 10000FT, to BB460, to BB461, to BB462, to BB463, to MUGLA at 10000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | DUBKA | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | LIKPO | — | 265 (275.3) | -8.1 | 14.7 | — | — | — | — | RNP1 |
| 003 | TF | MOVNI | — | 217 (209.3) | -8.1 | 26.9 | — | — | — | — | RNP1 |
| 004 | TF | MADIP | — | 278 (269.7) | -8.1 | 11.7 | — | 10000 | 230 | — | RNP1 |
| 005 | TF | BB460 | — | 335 (326.6) | -8.1 | 6.3 | — | — | — | — | RNP1 |
| 006 | TF | BB461 | — | 295 (286.5) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 007 | TF | BB462 | — | 317 (308.9) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 008 | TF | BB463 | — | 339 (331.4) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 009 | TF | MUGLA | — | 002 (353.7) | -8.1 | 7.6 | — | 10000 | 230 | — | RNP1 |
| 010 | TF | NOBUN | — | 103 (095.0) | -8.1 | 19.5 | — | +8000 | — | — | RNP1 |
| 011 | TF | AWAJI | — | 058 (050.0) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 012 | TF | LILAC | — | 058 (050.1) | -8.1 | 17.1 | — | — | — | — | RNP1 |
| 013 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 014 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | DUBKA | 271 (262.6) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 10000 | — | -230(-14000) -240(+14001) | RNP1 |
| Hold | MOVNI | 278 (269.8) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 10000 | — | -230(-14000) -240(+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

EVERT M ARRIVAL

From EVERT, to MOVNI, to MADIP at 10000FT, to BB460, to BB461, to BB462, to BB463, to MUGLA at 10000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | EVERT | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | MOVNI | — | 305 (297.0) | -8.1 | 15.5 | — | — | — | — | RNP1 |
| 003 | TF | MADIP | — | 278 (269.7) | -8.1 | 11.7 | — | 10000 | 230 | — | RNP1 |
| 004 | TF | BB460 | — | 335 (326.6) | -8.1 | 6.3 | — | — | — | — | RNP1 |
| 005 | TF | BB461 | — | 295 (286.5) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 006 | TF | BB462 | — | 317 (308.9) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 007 | TF | BB463 | — | 339 (331.4) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 008 | TF | MUGLA | — | 002 (353.7) | -8.1 | 7.6 | — | 10000 | 230 | — | RNP1 |
| 009 | TF | NOBUN | — | 103 (095.0) | -8.1 | 19.5 | — | +8000 | — | — | RNP1 |
| 010 | TF | AWAJI | — | 058 (050.0) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 011 | TF | LILAC | — | 058 (050.1) | -8.1 | 17.1 | — | — | — | — | RNP1 |
| 012 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 013 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | MOVNI | 278 (269.8) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 10000 | — | -230(-14000) -240(+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

NIXOV M ARRIVAL

From NIXOV, to MADIP at 10000FT, to BB460, to BB461, to BB462, to BB463, to MUGLA at 10000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, MAYAH at or above 4000FT.

| Serial Number | 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 | NIXOV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | MADIP | — | 048 (039.8) | -8.1 | 12.5 | — | 10000 | 230 | — | RNP1 |
| 003 | TF | BB460 | — | 335 (326.6) | -8.1 | 6.3 | — | — | — | — | RNP1 |
| 004 | TF | BB461 | — | 295 (286.5) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 005 | TF | BB462 | — | 317 (308.9) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 006 | TF | BB463 | — | 339 (331.4) | -8.1 | 7.6 | — | — | — | — | RNP1 |
| 007 | TF | MUGLA | — | 002 (353.7) | -8.1 | 7.6 | — | 10000 | 230 | — | RNP1 |
| 008 | TF | NOBUN | — | 103 (095.0) | -8.1 | 19.5 | — | +8000 | | — | RNP1 |
| 009 | TF | AWAJI | — | 058 (050.0) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 010 | TF | LILAC | — | 058 (050.1) | -8.1 | 17.1 | — | — | — | — | RNP1 |
| 011 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 012 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | NIXOV | 064 (055.4) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 10000 | — | -230(-14000) -240(+14001) | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| DUBKA | 341309.4N / 1352433.9E | BB462 | 335830.2N / 1341717.3E |
| LIKPO | 340955.3N / 1350715.9E | BB463 | 340511.2N / 1341252.8E |
| EVERT | 333925.1N / 1350759.1E | MUGLA | 341245.9N / 1341152.4E |
| MOVNI | 334625.2N / 1345125.1E | NOBUN | 341102.6N / 1343518.0E |
| NIXOV | 333644.5N / 1342743.1E | AWAJI | 341613.1N / 1344246.6E |
| MADIP | 334620.7N / 1343721.4E | LILAC | 342710.7N / 1345842.0E |
| BB460 | 335134.8N / 1343311.5E | SAPEK | 343331.6N / 1350758.6E |
| BB461 | 335343.6N / 1342425.2E | MAYAH | 343623.7N / 1351211.0E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV M ARRIVAL
ATMUG M ARRIVAL

RNP1

Note GNSS required.

VAR 8°W

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

NOT TO SCALE

MHA11000

MINOS

MAX 230KIAS(at or below FL140)
MAX 240KIAS(above FL140)MINOS
11000
230KIAS

ATMUG M ARRIVAL

BB467

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STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV M ARRIVAL

From IGLEV, to MIDUX at 12000FT, to BB464, to BB465, to BB466, to SUPOL at 12000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | IGLEV | - | - | -8.1 | - | - | - | - | - | RNP1 |
| 002 | TF | MIDUX | - | 093 (085.3) | -8.1 | 5.0 | - | 12000 | 230 | - | RNP1 |
| 003 | TF | BB464 | - | 088 (079.7) | -8.1 | 9.0 | - | - | - | - | RNP1 |
| 004 | TF | BB465 | - | 159 (151.3) | -8.1 | 6.4 | - | - | - | - | RNP1 |
| 005 | TF | BB466 | - | 137 (128.9) | -8.1 | 6.4 | - | - | - | - | RNP1 |
| 006 | TF | SUPOL | - | 115 (106.4) | -8.1 | 6.4 | - | 12000 | 230 | - | RNP1 |
| 007 | TF | NOBUN | - | 013 (005.1) | -8.1 | 16.5 | - | +8000 | - | - | RNP1 |
| 008 | TF | AWAJI | - | 058 (050.0) | -8.1 | 8.1 | - | - | - | - | RNP1 |
| 009 | TF | LILAC | - | 058 (050.1) | -8.1 | 17.1 | - | - | - | - | RNP1 |
| 010 | TF | SAPEK | - | 058 (050.3) | -8.1 | 9.9 | - | - | - | - | RNP1 |
| 011 | TF | MAYAH | - | 058 (050.3) | -8.1 | 4.5 | - | +4000 | - | - | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | IGLEV | 093 (085.2) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 12000 | - | -230(-14000) -240(+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

ATMUG M ARRIVAL

From ATMUG, to MINOS at 11000FT, to BB467, to BB468, to BB469, to BB470, to DUMES at 11000FT, to NOBUN at or above 8000FT, to AWAJI, to LILAC, to SAPEK, to MAYAH at or above 4000FT.

| Serial Number | 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 | ATMUG | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | MINOS | — | 175 (166.5) | -8.1 | 12.0 | — | 11000 | 230 | — | RNP1 |
| 003 | TF | BB467 | — | 175 (166.5) | -8.1 | 9.4 | — | — | — | — | RNP1 |
| 004 | TF | BB468 | — | 182 (173.7) | -8.1 | 7.0 | — | — | — | — | RNP1 |
| 005 | TF | BB469 | — | 159 (151.3) | -8.1 | 7.0 | — | — | — | — | RNP1 |
| 006 | TF | BB470 | — | 137 (128.9) | -8.1 | 7.0 | — | — | — | — | RNP1 |
| 007 | TF | DUMES | — | 115 (106.4) | -8.1 | 7.0 | — | 11000 | 230 | — | RNP1 |
| 008 | TF | NOBUN | — | 013 (005.1) | -8.1 | 18.1 | — | +8000 | — | — | RNP1 |
| 009 | TF | AWAJI | — | 058 (050.0) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 010 | TF | LILAC | — | 058 (050.1) | -8.1 | 17.1 | — | — | — | — | RNP1 |
| 011 | TF | SAPEK | — | 058 (050.3) | -8.1 | 9.9 | — | — | — | — | RNP1 |
| 012 | TF | MAYAH | — | 058 (050.3) | -8.1 | 4.5 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------------------|--------------|--------------------------|
| Hold | MINOS | 175 (166.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 11000 | — -230(-14000) -240(+14001) | RNP1 | |

Waypoint Coordinates

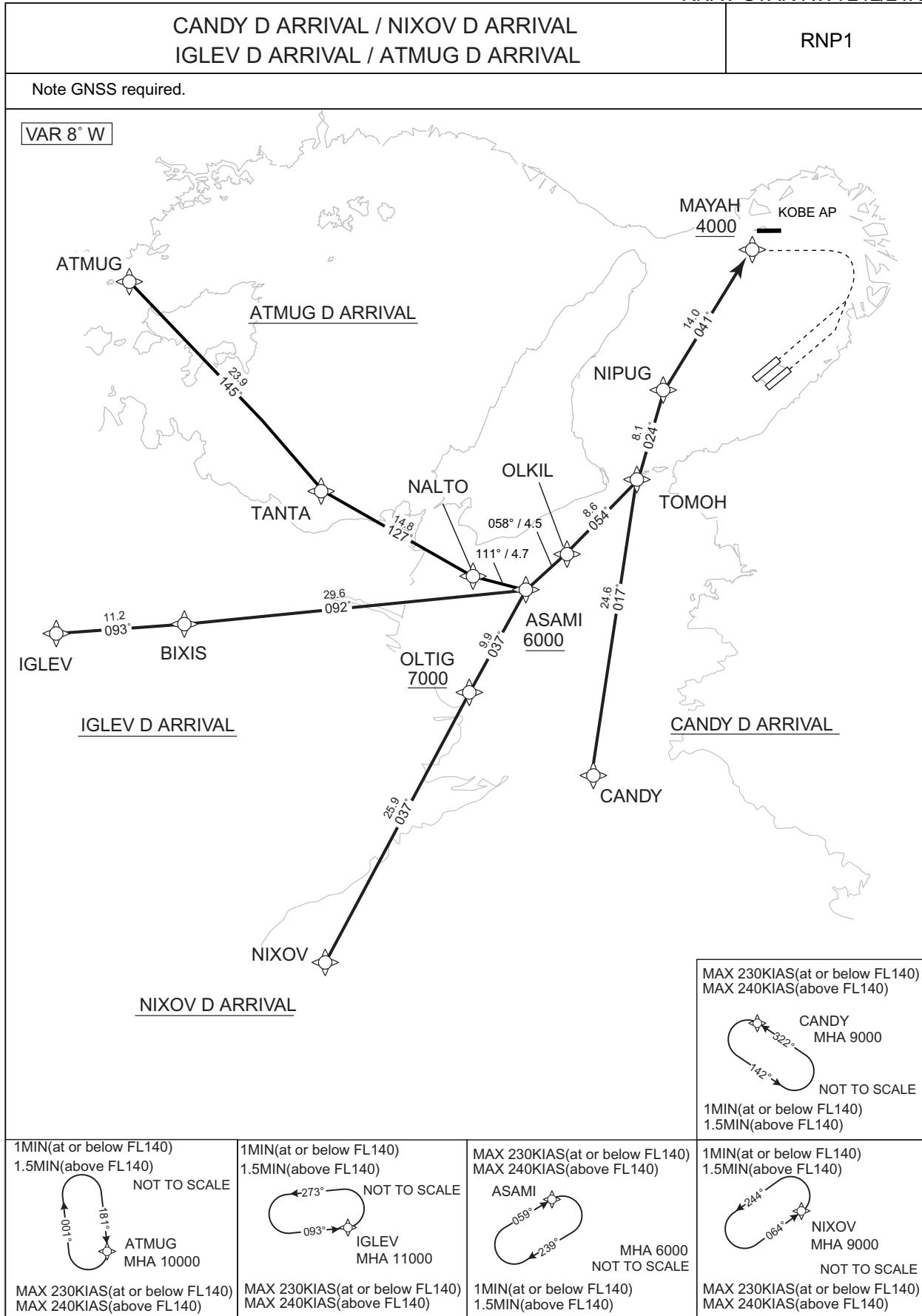
| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| IGLEV | 340405.2N / 1335940.5E | BB468 | 340538.4N / 1341436.2E |
| MIDUX | 340429.4N / 1340540.6E | BB469 | 335928.2N / 1341840.3E |
| BB464 | 340605.5N / 1341619.6E | BB470 | 335503.6N / 1342515.3E |
| BB465 | 340026.1N / 1342003.2E | DUMES | 335304.7N / 1343321.2E |
| BB466 | 335623.6N / 1342605.4E | NOBUN | 341102.6N / 1343518.0E |
| SUPOL | 335434.5N / 1343330.9E | AWAJI | 341613.1N / 1344246.6E |
| ATMUG | 343330.0N / 1340737.4E | LILAC | 342710.7N / 1345842.0E |
| MINOS | 342149.0N / 1341101.2E | SAPEK | 343331.6N / 1350758.6E |
| BB467 | 341238.1N / 1341340.6E | MAYAH | 343623.7N / 1351211.0E |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R



STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY D ARRIVAL

From CANDY, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

| Serial Number | 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 | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | TOMOH | — | 017 (009.0) | -8.1 | 24.6 | — | — | — | — | RNP1 |
| 003 | TF | NIPUG | — | 024 (016.2) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 004 | TF | MAYAH | — | 041 (032.4) | -8.1 | 14.0 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | CANDY | 322 (314.0) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 9000 | — | -230(-14000) -240(+14001) | RNP1 |

NIXOV D ARRIVAL

From NIXOV, to OLTIG at or above 7000FT, to ASAMI at or above 6000FT, to OLKIL, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

| Serial Number | 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 | NIXOV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | OLTIG | — | 037 (029.1) | -8.1 | 25.9 | — | +7000 | — | — | RNP1 |
| 003 | TF | ASAMI | — | 037 (029.2) | -8.1 | 9.9 | — | +6000 | — | — | RNP1 |
| 004 | TF | OLKIL | — | 058 (049.9) | -8.1 | 4.5 | — | — | — | — | RNP1 |
| 005 | TF | TOMOH | — | 054 (046.0) | -8.1 | 8.6 | — | — | — | — | RNP1 |
| 006 | TF | NIPUG | — | 024 (016.2) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 007 | TF | MAYAH | — | 041 (032.4) | -8.1 | 14.0 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | NIXOV | 064 (055.4) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 9000 | — | -230(-14000) -240(+14001) | RNP1 |
| Hold | ASAMI | 059 (050.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 6000 | — | -230(-14000) -240(+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV D ARRIVAL

From IGLEV, to BIXIS, to ASAMI at or above 6000FT, to OLKIL, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

| Serial Number | 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 | IGLEV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | BIXIS | — | 093 (085.3) | -8.1 | 11.2 | — | — | — | — | RNP1 |
| 003 | TF | ASAMI | — | 092 (084.1) | -8.1 | 29.6 | — | +6000 | — | — | RNP1 |
| 004 | TF | OLKIL | — | 058 (049.9) | -8.1 | 4.5 | — | — | — | — | RNP1 |
| 005 | TF | TOMOH | — | 054 (046.0) | -8.1 | 8.6 | — | — | — | — | RNP1 |
| 006 | TF | NIPUG | — | 024 (016.2) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 007 | TF | MAYAH | — | 041 (032.4) | -8.1 | 14.0 | — | +4000 | — | — | RNP1 |
| Path | Waypoint Identifier | Inbound Course °M(T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification | | |
| Hold | IGLEV | 093 (085.2) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 11000 | — | -230(-14000) -240(+14001) | RNP1 | | |
| Hold | ASAMI | 059 (050.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 6000 | — | -230(-14000) -240(+14001) | RNP1 | | |

ATMUG D ARRIVAL

From ATMUG, to TANTA, to NALTO, to ASAMI at or above 6000FT, to OLKIL, to TOMOH, to NIPUG, to MAYAH at or above 4000FT.

| Serial Number | 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 | ATMUG | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | TANTA | — | 145 (136.7) | -8.1 | 23.9 | — | — | — | — | RNP1 |
| 003 | TF | NALTO | — | 127 (118.4) | -8.1 | 14.8 | — | — | — | — | RNP1 |
| 004 | TF | ASAMI | — | 111 (103.0) | -8.1 | 4.7 | — | +6000 | — | — | RNP1 |
| 005 | TF | OLKIL | — | 058 (049.9) | -8.1 | 4.5 | — | — | — | — | RNP1 |
| 006 | TF | TOMOH | — | 054 (046.0) | -8.1 | 8.6 | — | — | — | — | RNP1 |
| 007 | TF | NIPUG | — | 024 (016.2) | -8.1 | 8.1 | — | — | — | — | RNP1 |
| 008 | TF | MAYAH | — | 041 (032.4) | -8.1 | 14.0 | — | +4000 | — | — | RNP1 |
| Path | Waypoint Identifier | Inbound Course °M(T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification | | |
| Hold | ATMUG | 181 (172.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 10000 | — | -230(-14000) -240(+14001) | RNP1 | | |
| Hold | ASAMI | 059 (050.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 6000 | — | -230(-14000) -240(+14001) | RNP1 | | |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| CANDY | 335229.8N / 1345541.8E | NALTO | 340900.6N / 1344313.3E |
| NIXOV | 333644.5N / 1342743.1E | ASAMI | 340757.9N / 1344841.8E |
| OLTIG | 335922.2N / 1344253.6E | OLKIL | 341051.4N / 1345251.0E |
| IGLEV | 340405.2N / 1335940.5E | TOMOH | 341649.6N / 1350020.3E |
| BIXIS | 340459.0N / 1341305.7E | NIPUG | 342434.7N / 1350304.1E |
| ATMUG | 343330.0N / 1340737.4E | MAYAH | 343623.7N / 1351211.0E |
| TANTA | 341604.9N / 1342729.2E | | |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

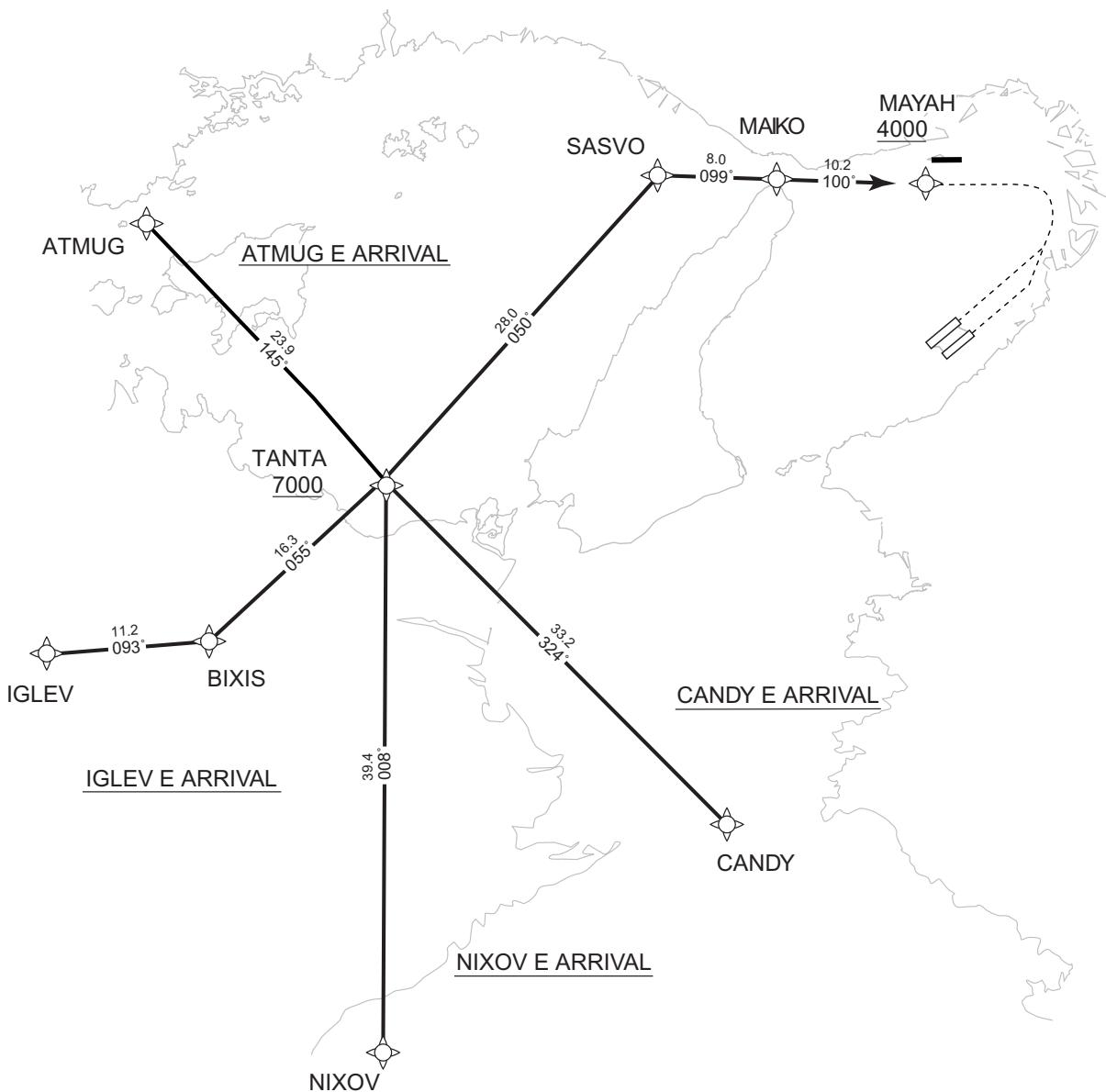
RNAV STAR RWY24L/24R

CANDY E ARRIVAL / NIXOV E ARRIVAL
IGLEV E ARRIVAL / ATMUG E ARRIVAL

RNP1

Note GNSS required.

VAR 8° W



CHANGE : New PROC.

| | | | |
|---|---|--|--|
| 1MIN(at or below FL140) 1.5MIN(above FL140) NOT TO SCALE ATMUG MHA 10000 MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) | 1MIN(at or below FL140) 1.5MIN(above FL140) NOT TO SCALE IGLEV MHA 11000 MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) | 1MIN(at or below FL140) 1.5MIN(above FL140) NOT TO SCALE NIXOV MHA 9000 MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) | MAX 230KIAS(at or below FL140) MAX 240KIAS(above FL140) CANDY MHA 9000 NOT TO SCALE 1MIN(at or below FL140) 1.5MIN(above FL140) |
|---|---|--|--|

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

CANDY E ARRIVAL

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

| Serial Number | 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 | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | TANTA | — | 324 (315.4) | -8.1 | 33.2 | — | +7000 | — | — | RNP1 |
| 003 | TF | SASVO | — | 050 (041.8) | -8.1 | 28.0 | — | — | — | — | RNP1 |
| 004 | TF | MAIKO | — | 099 (091.3) | -8.1 | 8.0 | — | — | — | — | RNP1 |
| 005 | TF | MAYAH | — | 100 (091.4) | -8.1 | 10.2 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | CANDY | 322 (314.0) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 9000 | — | -230(-14000) -240(+14001) | RNP1 |

NIXOV E ARRIVAL

From NIXOV, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

| Serial Number | 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 | NIXOV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | TANTA | — | 008 (359.7) | -8.1 | 39.4 | — | +7000 | — | — | RNP1 |
| 003 | TF | SASVO | — | 050 (041.8) | -8.1 | 28.0 | — | — | — | — | RNP1 |
| 004 | TF | MAIKO | — | 099 (091.3) | -8.1 | 8.0 | — | — | — | — | RNP1 |
| 005 | TF | MAYAH | — | 100 (091.4) | -8.1 | 10.2 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | NIXOV | 064 (055.4) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 9000 | — | -230(-14000) -240(+14001) | RNP1 |

CHANGE : New PROC.

STANDARD ARRIVAL CHART - INSTRUMENT

RJBB / KANSAI INTL

RNAV STAR RWY24L/24R

IGLEV E ARRIVAL

From IGLEV, to BIXIS, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

| Serial Number | 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 | IGLEV | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | BIXIS | — | 093 (085.3) | -8.1 | 11.2 | — | — | — | — | RNP1 |
| 003 | TF | TANTA | — | 055 (046.9) | -8.1 | 16.3 | — | +7000 | — | — | RNP1 |
| 004 | TF | SASVO | — | 050 (041.8) | -8.1 | 28.0 | — | — | — | — | RNP1 |
| 005 | TF | MAIKO | — | 099 (091.3) | -8.1 | 8.0 | — | — | — | — | RNP1 |
| 006 | TF | MAYAH | — | 100 (091.4) | -8.1 | 10.2 | — | +4000 | — | — | RNP1 |

| Path | Waypoint Identifier | Inbound Course °M('T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | IGLEV | 093 (085.2) | -8.1 | 1.0(-14000) 1.5(+14001) | L | 11000 | — | -230(-14000) -240(+14001) | RNP1 |

ATMUG E ARRIVAL

From ATMUG, to TANTA at or above 7000FT, to SASVO, to MAIKO, to MAYAH at or above 4000FT.

| Serial Number | 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 | ATMUG | — | — | -8.1 | — | — | — | — | — | RNP1 |
| 002 | TF | TANTA | — | 145 (136.7) | -8.1 | 23.9 | — | +7000 | — | — | RNP1 |
| 003 | TF | SASVO | — | 050 (041.8) | -8.1 | 28.0 | — | — | — | — | RNP1 |
| 004 | TF | MAIKO | — | 099 (091.3) | -8.1 | 8.0 | — | — | — | — | RNP1 |
| 005 | TF | MAYAH | — | 100 (091.4) | -8.1 | 10.2 | — | +4000 | — | — | RNP1 |

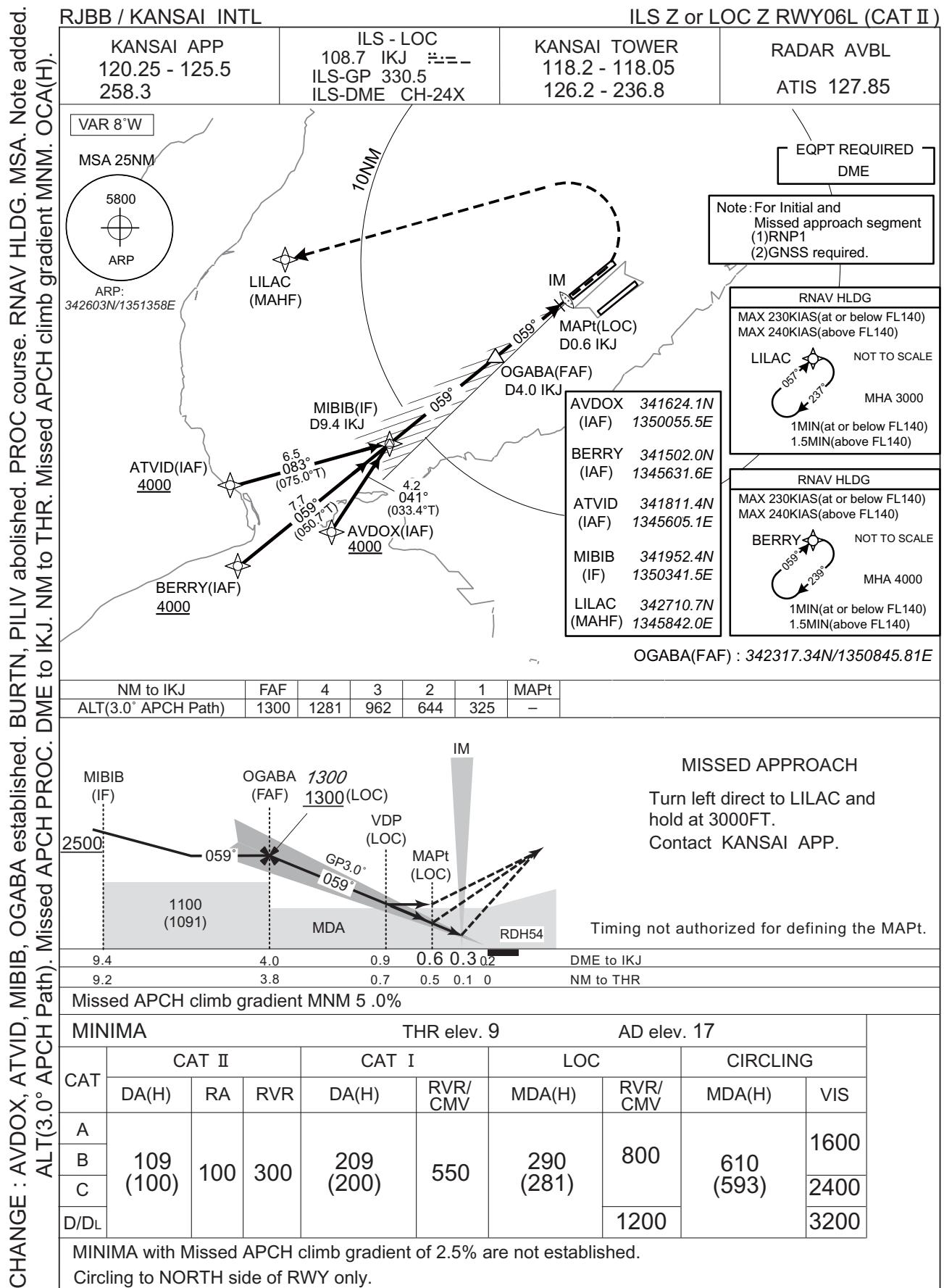
| Path | Waypoint Identifier | Inbound Course °M('T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|----------------------------|----------------|-----------------------|-----------------------|------------------------------|--------------------------|
| Hold | ATMUG | 181 (172.5) | -8.1 | 1.0(-14000) 1.5(+14001) | R | 10000 | — | -230(-14000) -240(+14001) | RNP1 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | Waypoint Identifier | Coordinates |
|---------------------|------------------------|---------------------|------------------------|
| CANDY | 335229.8N / 1345541.8E | TANTA | 341604.9N / 1342729.2E |
| NIXOV | 333644.5N / 1342743.1E | SASVO | 343651.4N / 1345007.5E |
| IGLEV | 340405.2N / 1335940.5E | MAIKO | 343639.7N / 1345949.1E |
| BIXIS | 340459.0N / 1341305.7E | MAYAH | 343623.7N / 1351211.0E |
| ATMUG | 343330.0N / 1340737.4E | | |

CHANGE : New PROC.

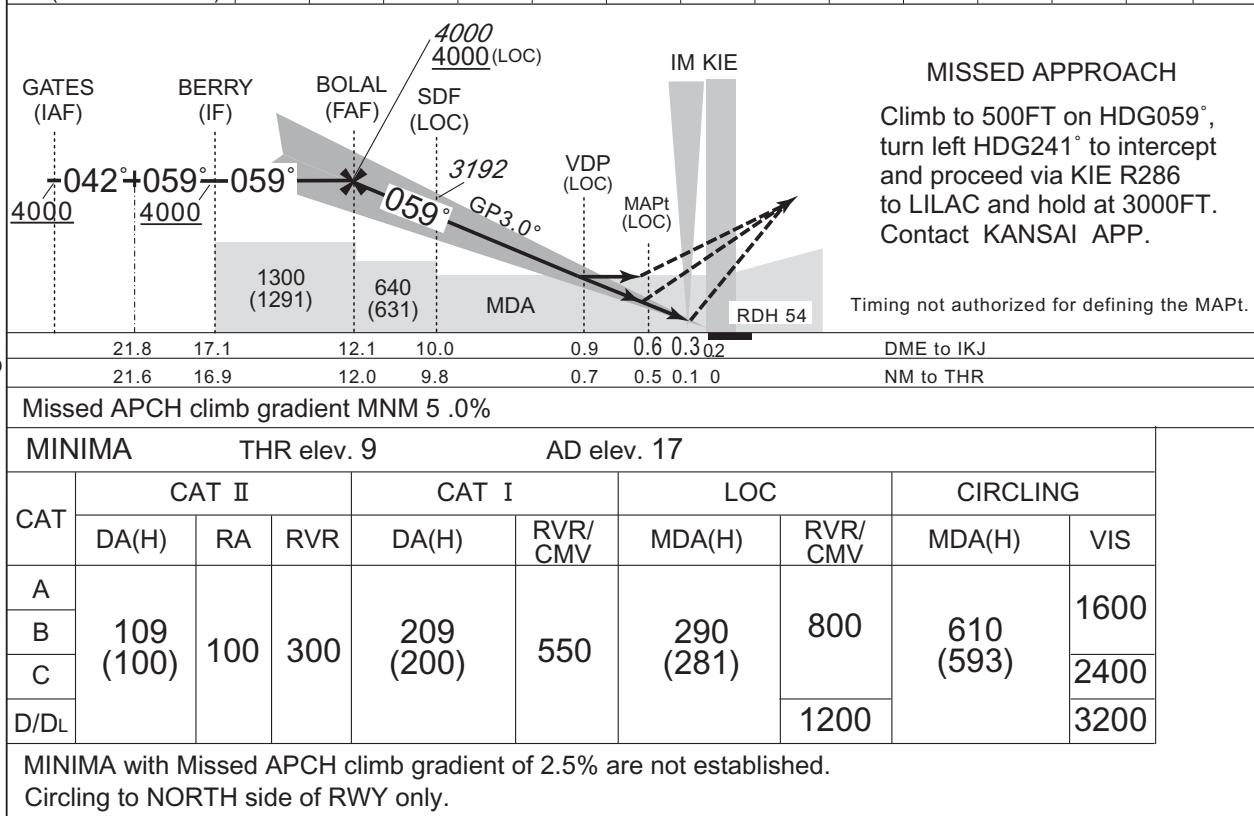
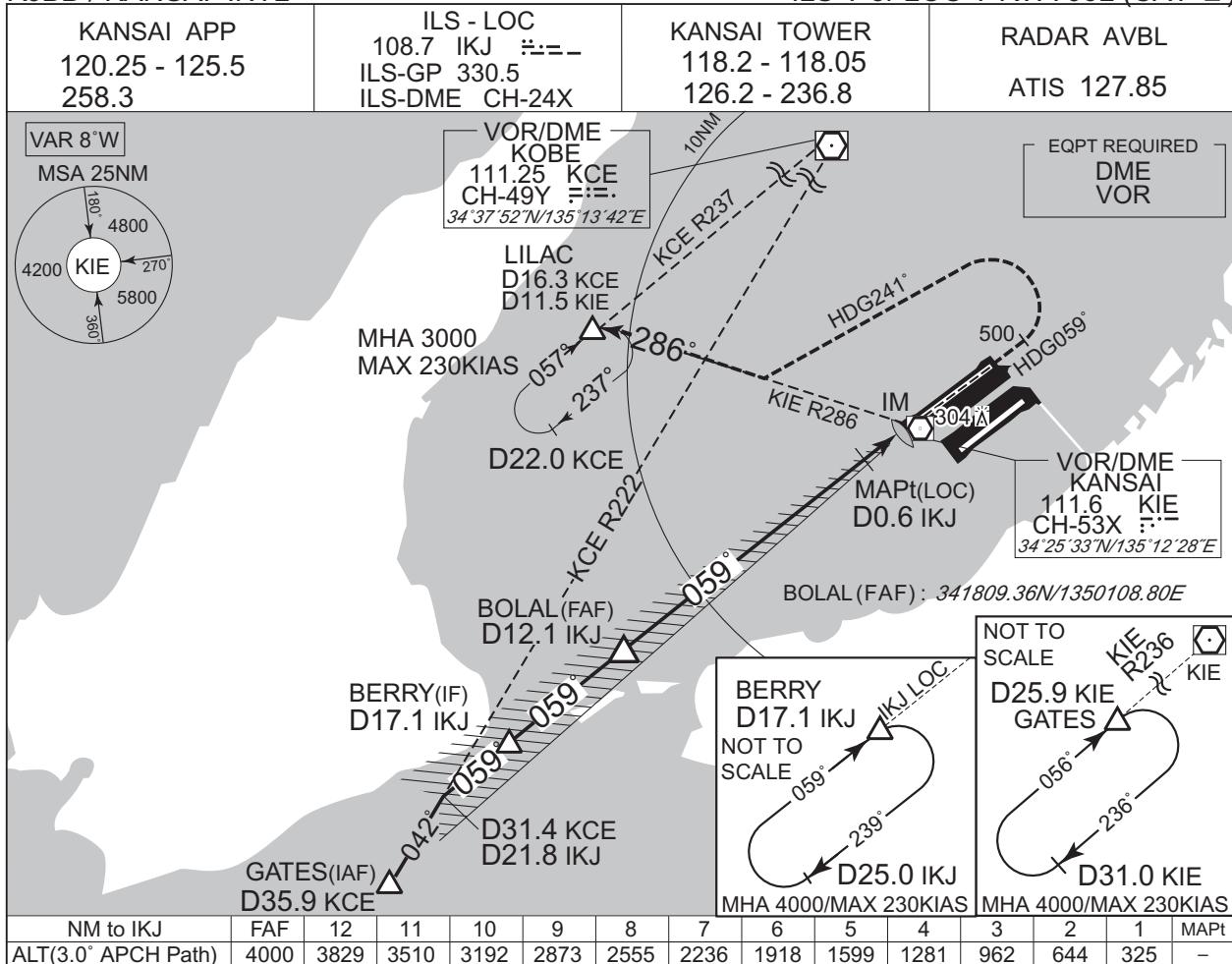
INSTRUMENT APPROACH CHART



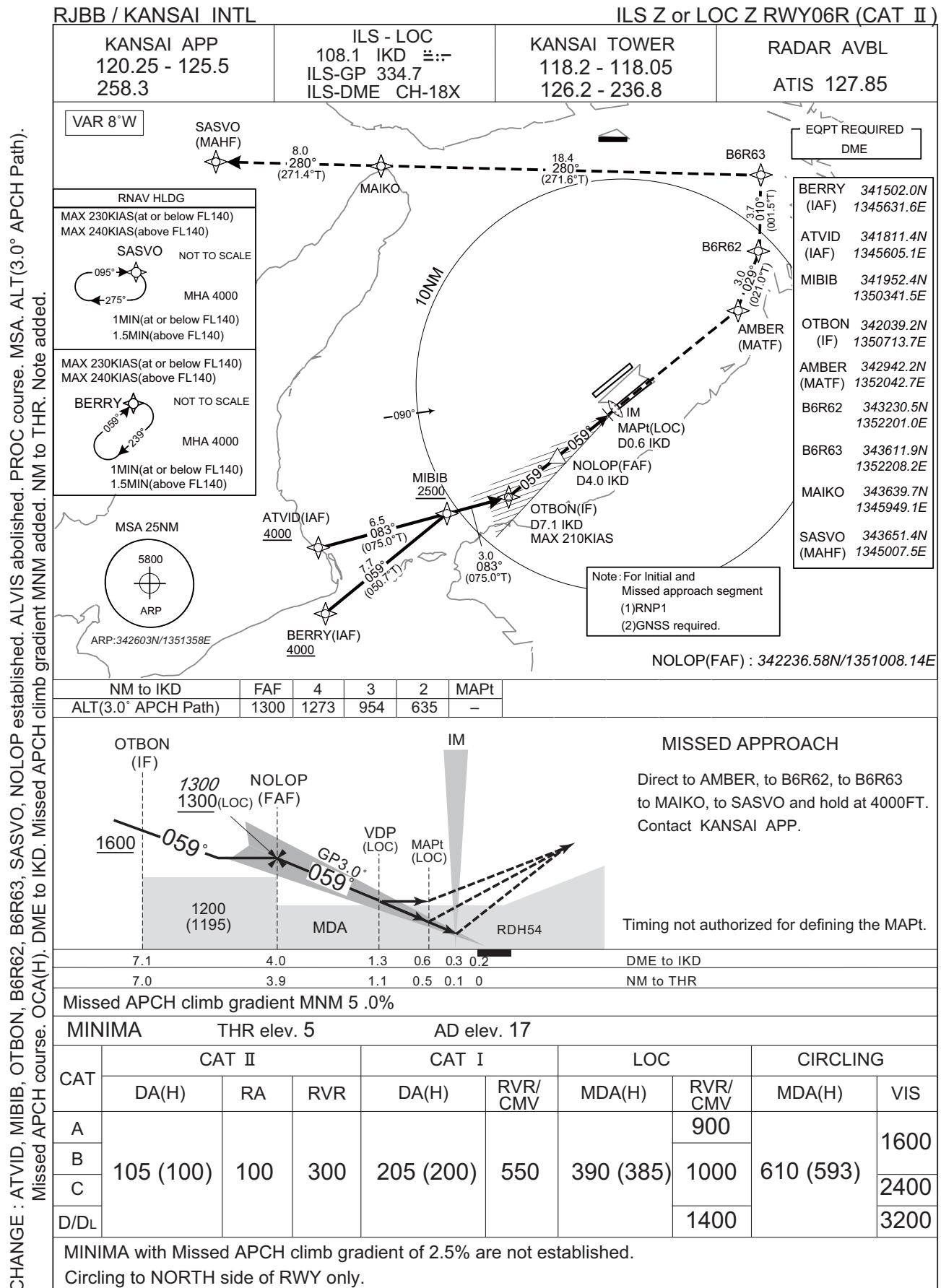
INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

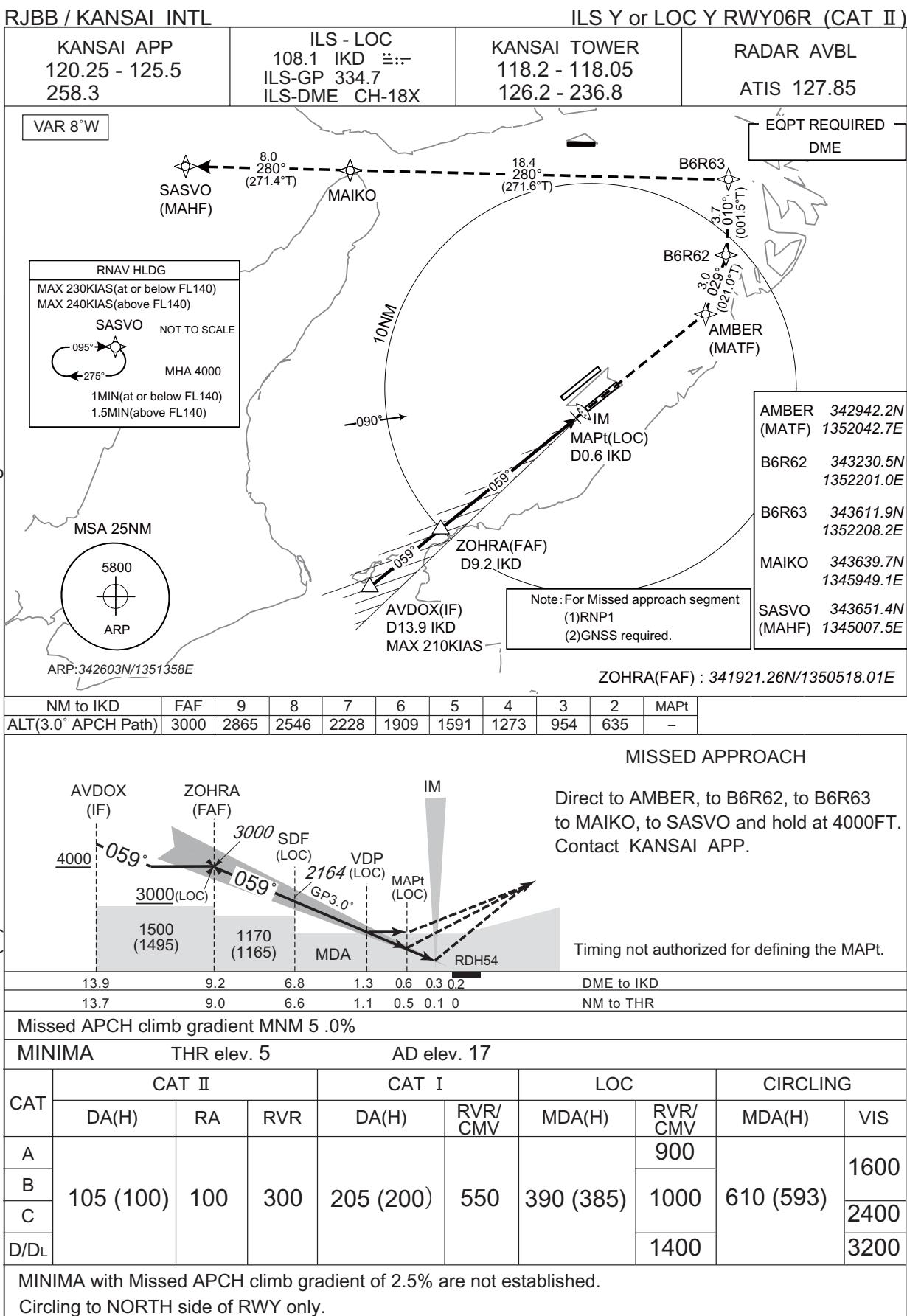
ILS Y or LOC Y RWY06L (CAT II)



INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



CHANGE : B6R62, B6R63, SASVO, AVDOX established. ALLAN abolished. PROC course. ALT(3.0° APCH Path). Note added.
Missed APCH course. OCA(H). DME to THR. Missed APCH climb gradient MNM added. MSA.

INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

KANSAI APP
120.25 - 125.5
258.3

ILS - LOC
108.1 IKD 334.7
ILS-GP CH-18X

KANSAI TOWER
118.2 - 118.05
126.2 - 236.8

RADAR AVBL
ATIS 127.85

VAR 8°W

SASVO
D37.5 YOE
D19.4 KCE
KCE R275
KCE
NOT TO SCALE

MAIKO
D29.5 YOE
D25.0 KCE
MHA 4000
MAX 230KIAS
VOR/DME KOBE 111.25 KCE CH-49Y

D1.6 KCE
D17.5 YOE
VOR/DME YAO 114.6 YOE CH-93X

34°37'52"N 135°13'42"E
34°35'54"N 135°35'37"E

VOR/DME
KANSAI
111.6 KIE
CH-53X F:
34°25'33"N 135°12'28"E

EQPT REQUIRED
DME
VOR

1378

1608

1262

1891

NOT TO SCALE

NOT TO SCALE

AGSUP D17.5 IKD

KIE R236 KIE

D25.0 IKD
MHA 4000/MAX 230KIAS

D31.0 KIE
MHA 4000/MAX 230KIAS

059°

239°

056°

236°

| NM to IKD | FAF | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | MAPt |
|---------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|
| ALT(3.0° APCH Path) | 4000 | 3820 | 3502 | 3183 | 2865 | 2546 | 2228 | 1909 | 1591 | 1273 | 954 | 635 | – |

MISSED APPROACH

Detailed description: This is a map of the San Francisco Bay Area and surrounding regions. It highlights several major seismic faults and their characteristics. Key features include:

- GATES (IAF), AGSUP (IF), JANDY (FAF), IM KIE:** Labels for specific fault segments.
- SDF (LOC), VDP (LOC), MAPt (LOC):** Labels for other seismic features or models.
- Magnitude Values:**
 - 4000 (multiple locations)
 - 4000 (LOC)
 - 1900 (1895)
 - 1170 (1165)
 - GP3.0
 - MDA
 - RDH 54
- Angles:** 059° is indicated at multiple points along the faults.
- Coordinates:** A grid shows coordinates such as 26.6, 17.5, 12.2, 6.8, 1.3, 0.6, 0.3, 0.2.

Climb to 4000FT via HDG059° to KIE 5.4DME, turn left climb via KCE R167 to intercept and proceed via YOE R279 to MAIKO, via YOE R279 to SASVO and hold. Contact KANSAI APP.

Timing not authorized for defining the MAPt.

Missed APC-H climb gradient MNM 5.0%

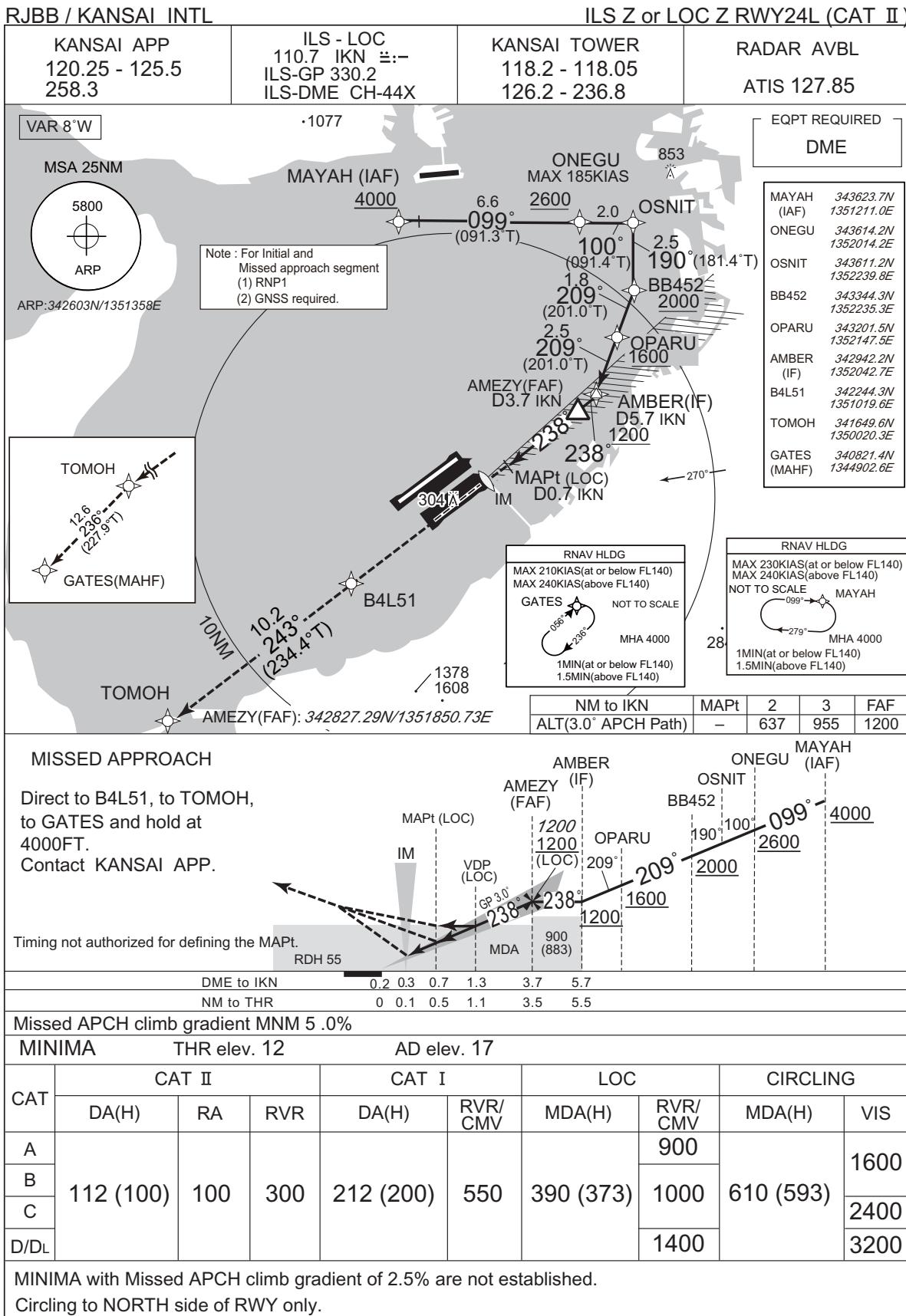
MINIMA THB elev. 5 AD elev. 17

| MINIMA | | THR elev. 5 | | AD elev. 17 | | | | | |
|--------|--------|-------------|-----|-------------|-------------|-----------|-------------|-----------|------|
| CAT | CAT II | | | CAT I | | LOC | | CIRCLING | |
| | DA(H) | RA | RVR | DA(H) | RVR/ CMV | MDA(H) | RVR/ CMV | MDA(H) | VIS |
| | A | 105 (100) | 300 | 205 (200) | 550 | 390 (385) | 900 | 610 (593) | 1600 |
| | B | | | | | | 1000 | | 2400 |
| | C | | | | | | 1400 | | 3200 |
| | D/DL | | | | | | | | |

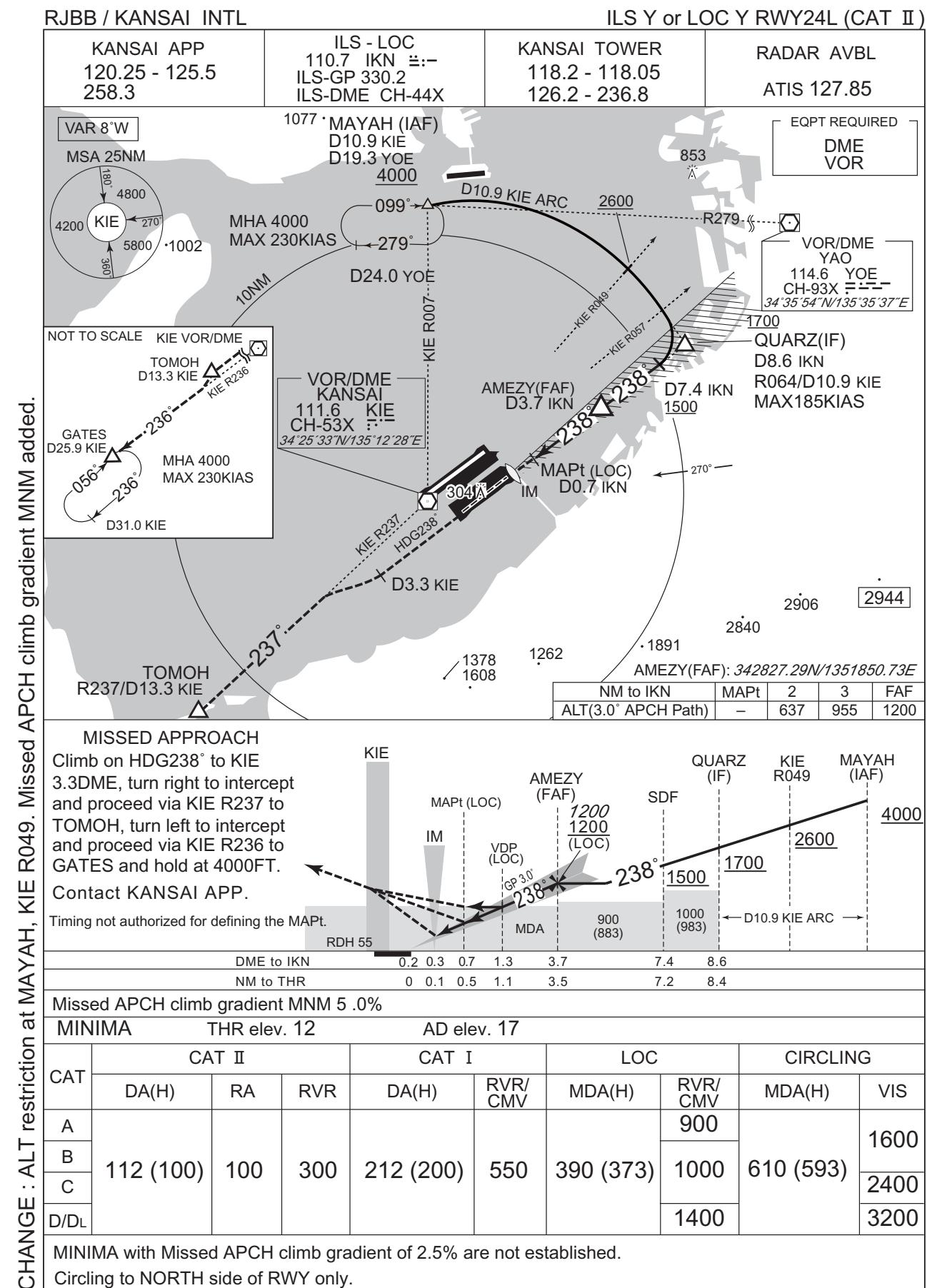
MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART

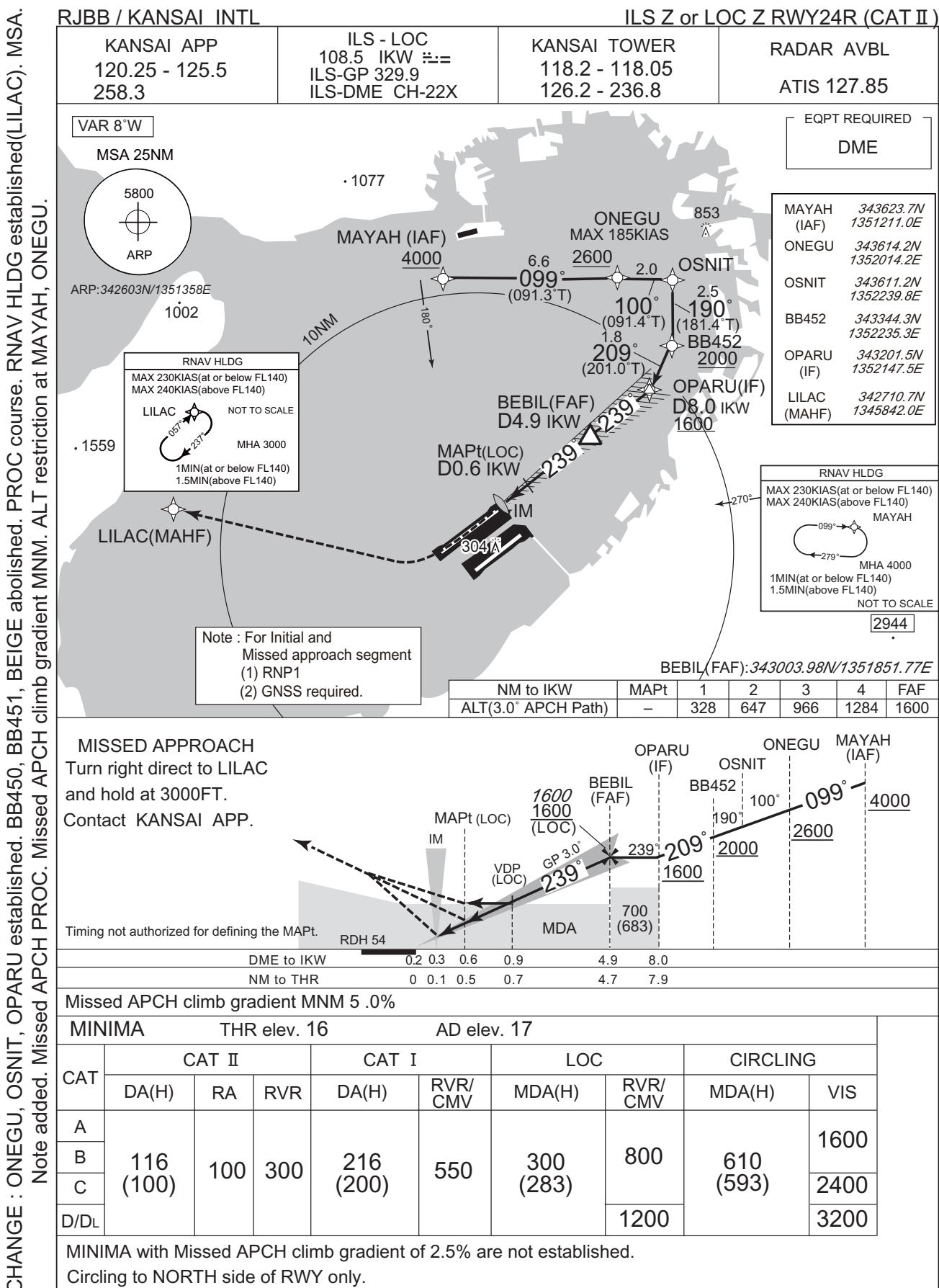
CHANGE : ONEGU, OSNIT, OPARU established. MSA. RNAV HLDG(GATES) established. Note added.
 ALT restriction at MAYAH, ONEGU. PROC course. Missed APCH climb gradient MNM added.



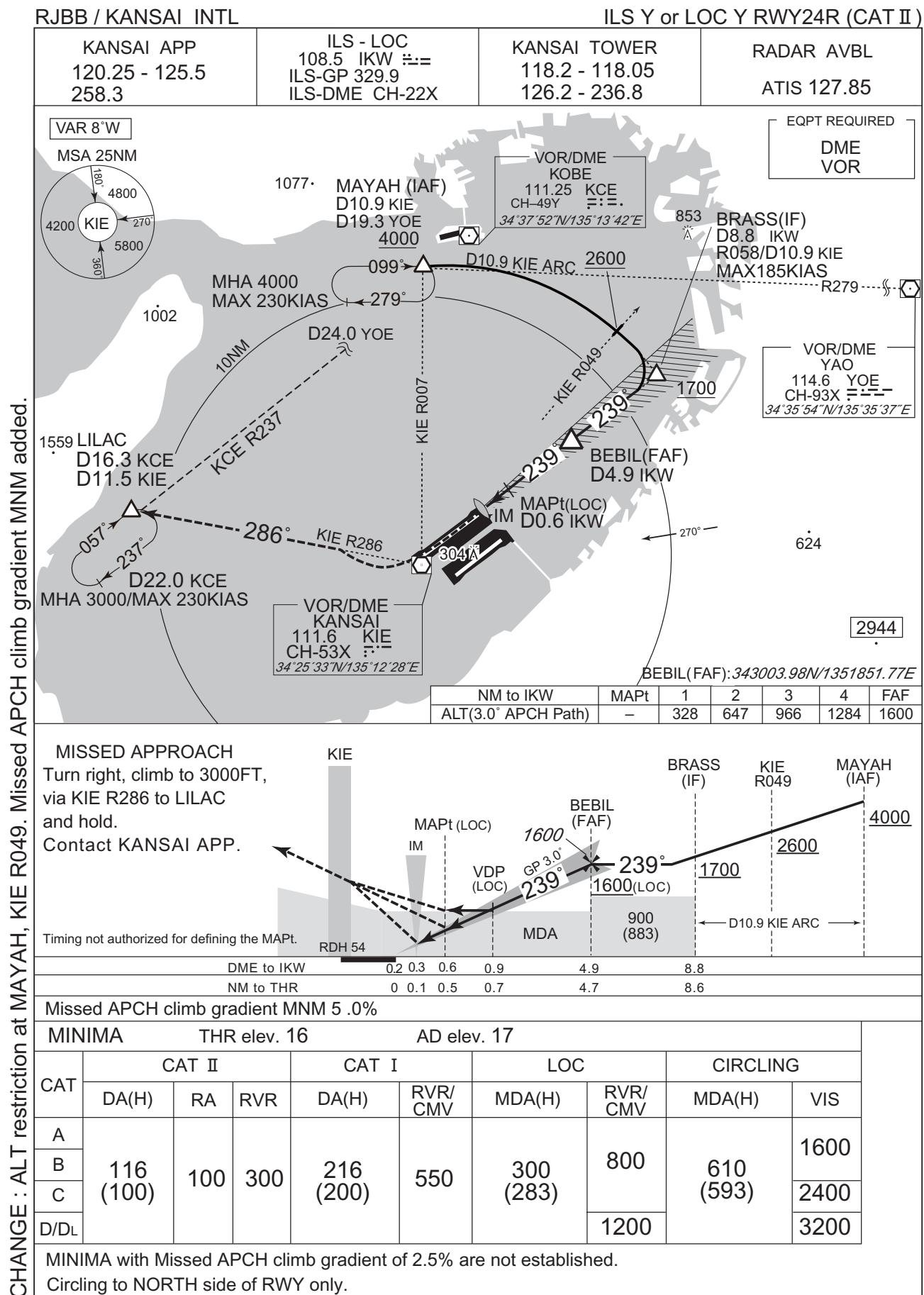
INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



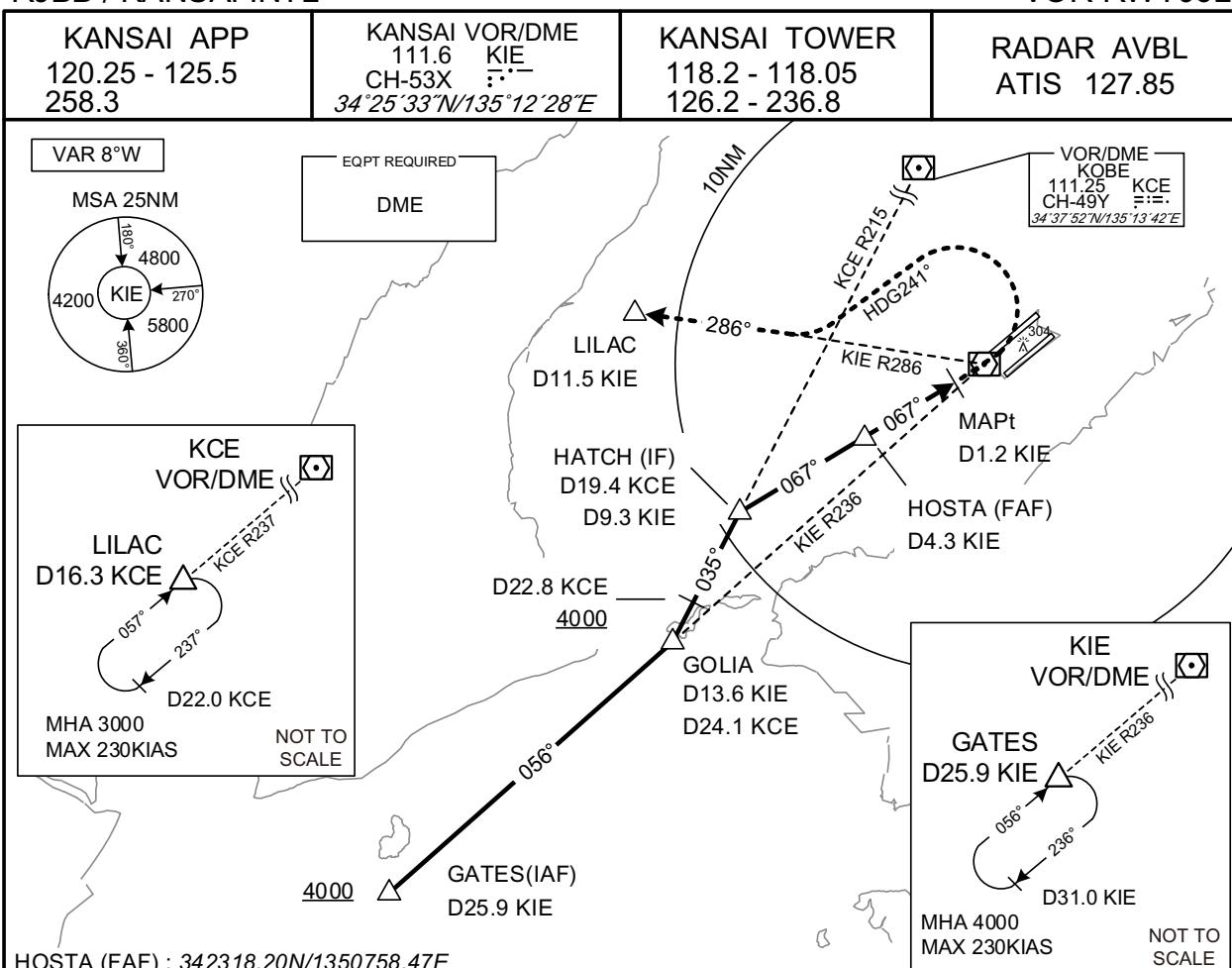
INSTRUMENT APPROACH CHART



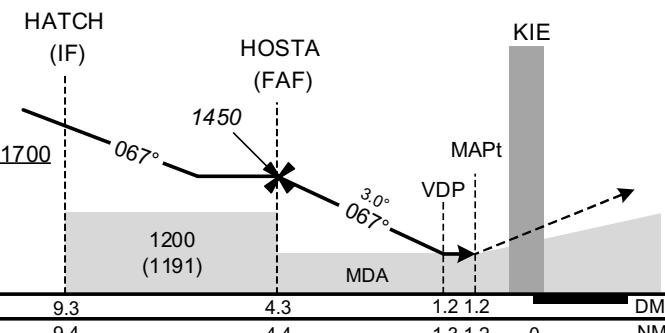
INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

VOR RWY06L



CHANGE : Missed APCH climb gradient MNM added.



MISSSED APPROACH

Turn left HDG241° to intercept and proceed via KIE R286 to LILAC and hold at 3000FT.

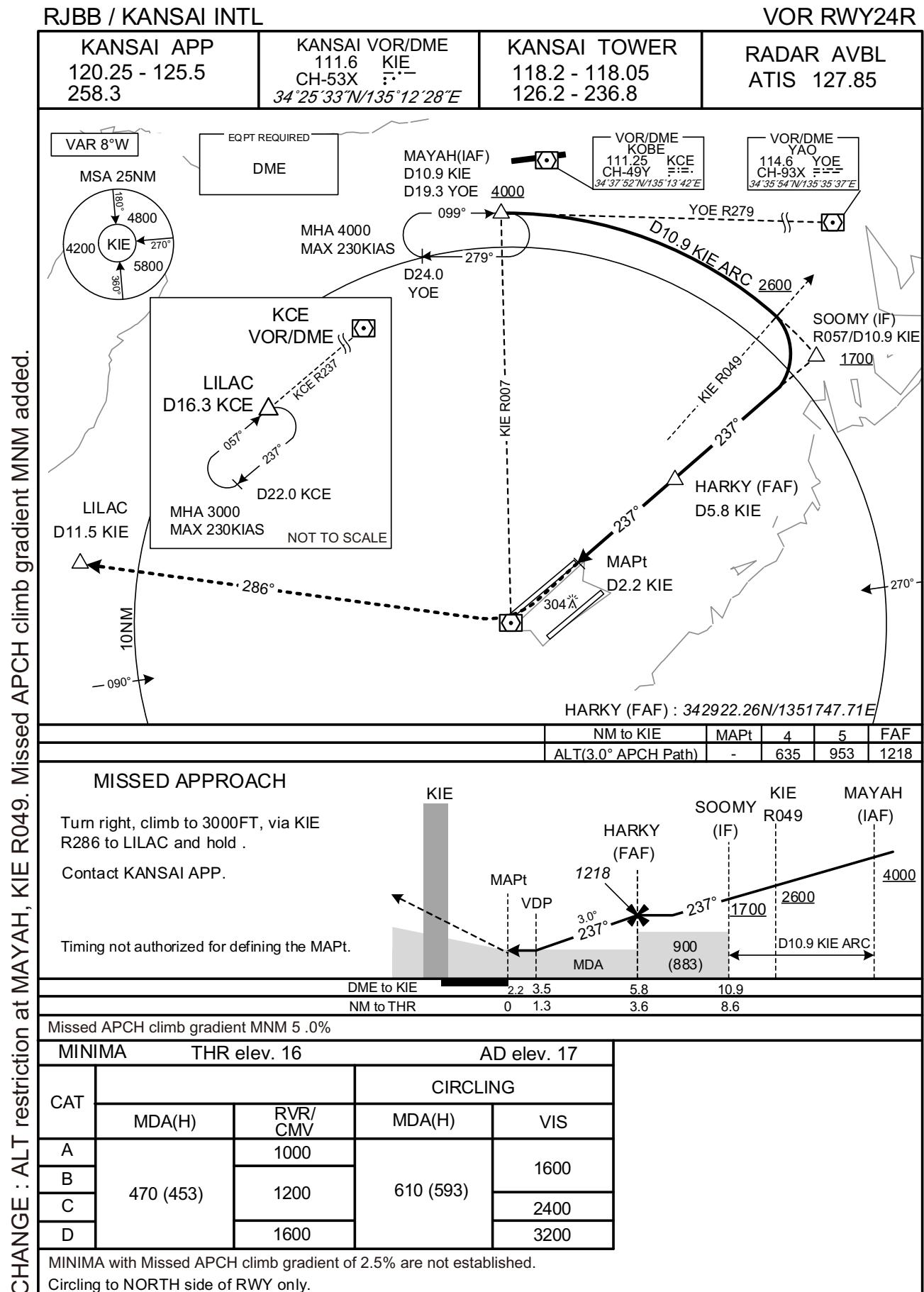
Contact KANSAI APP.

Timing not authorized for defining the MAPt.

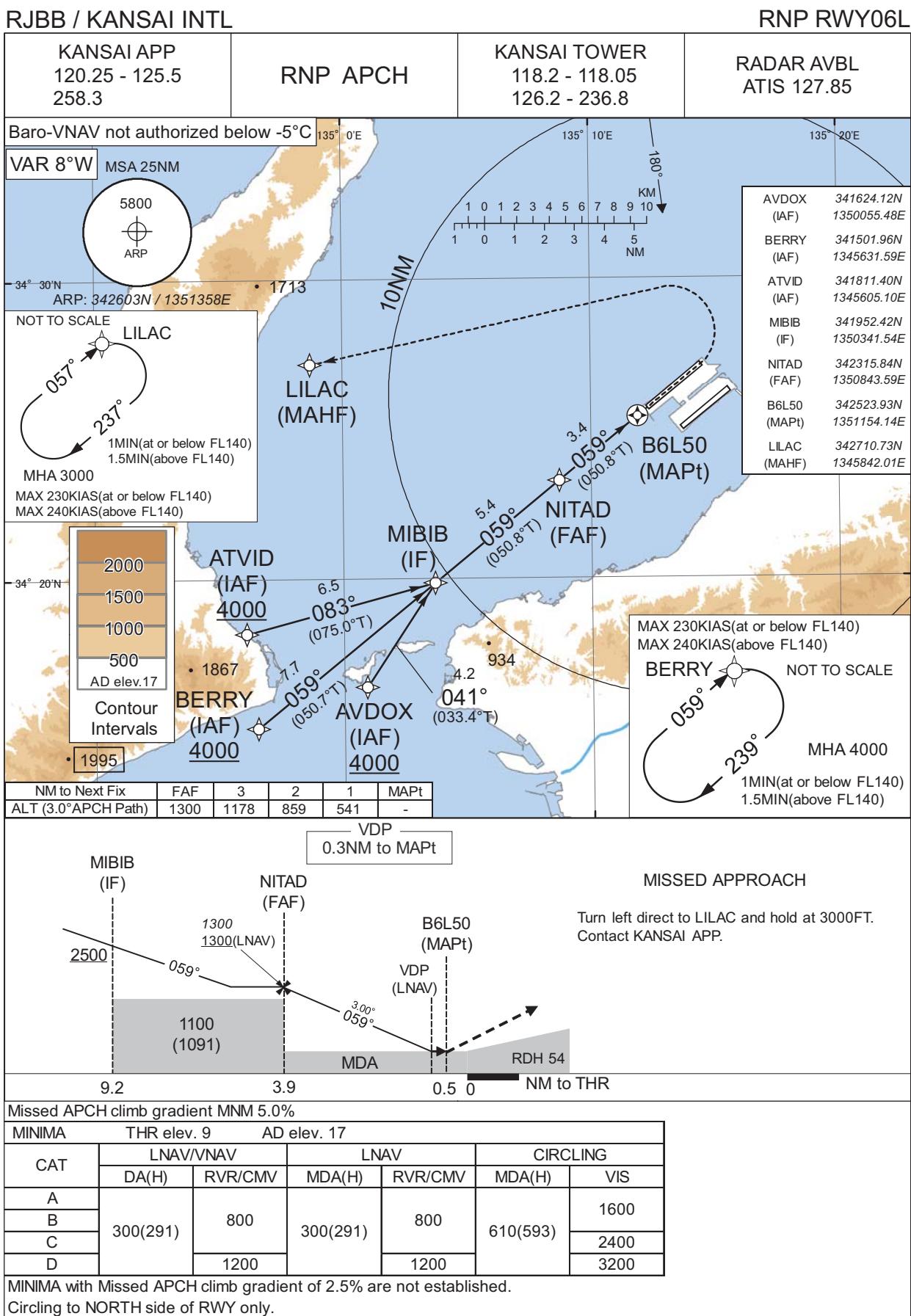
| MINIMA | | THR elev. 9 | | AD elev. 17 | |
|--------|-----------|-------------|-----------|-------------|--|
| CAT | | | CIRCLING | | |
| | MDA(H) | RVR/CMV | MDA(H) | VIS | |
| A | | 900 | | 1600 | |
| B | 450 (441) | 1000 | 610 (593) | 2400 | |
| C | | | | 3200 | |
| D | 1400 | | | | |

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to NORTH side of RWY only.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



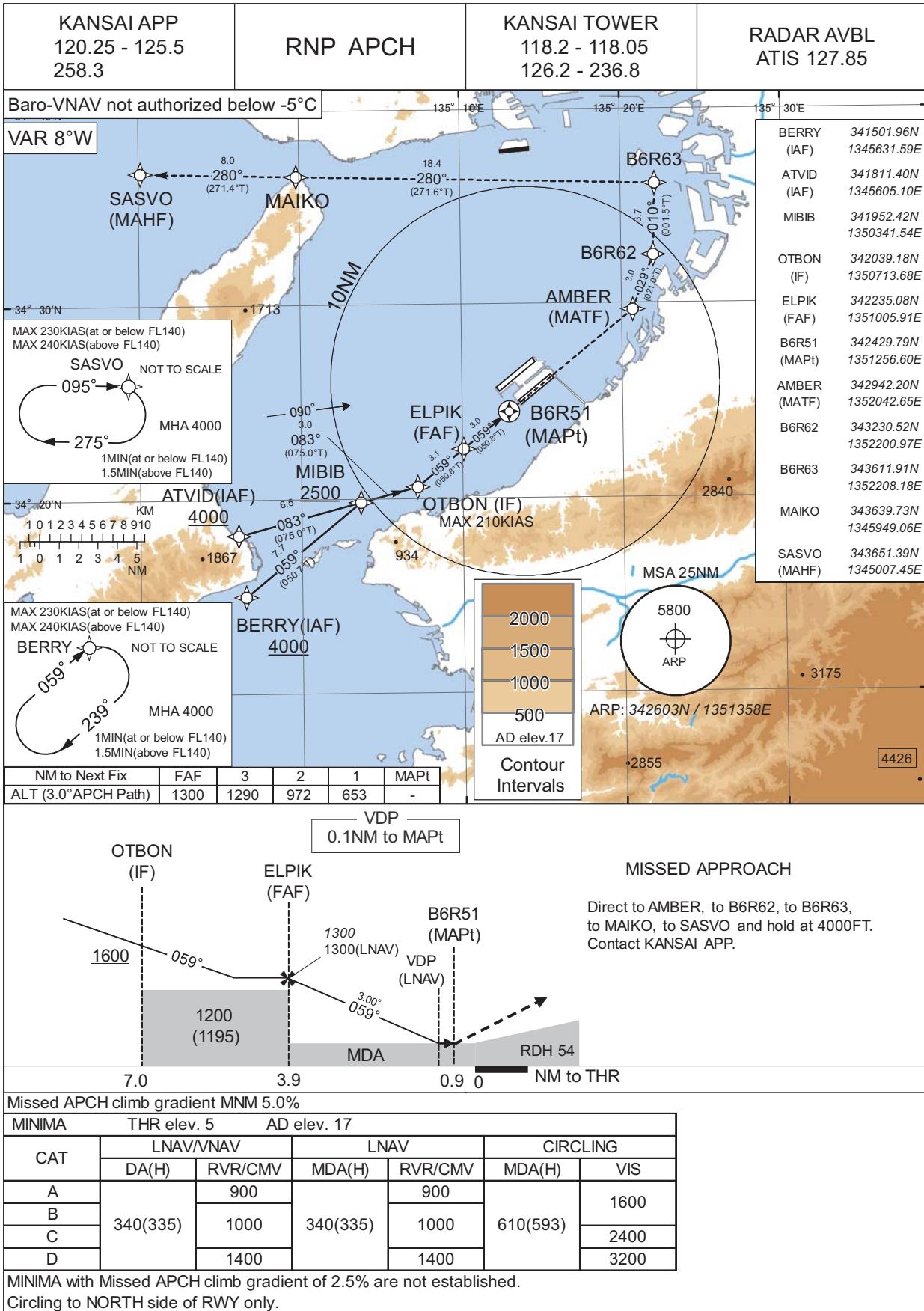
CHANGE : AVDOX, ATVID, MIBIB, NITAD established. B6L51, JOLLY abolished. PROC course. ALT(3.0°APCH Path).
Missed APCH PROC. OCA(H), ALT restriction at MIBIB, NITAD. NM to THR.

INSTRUMENT APPROACH CHART

RJBB / KANSAI INTL

RNP Z RWY06R

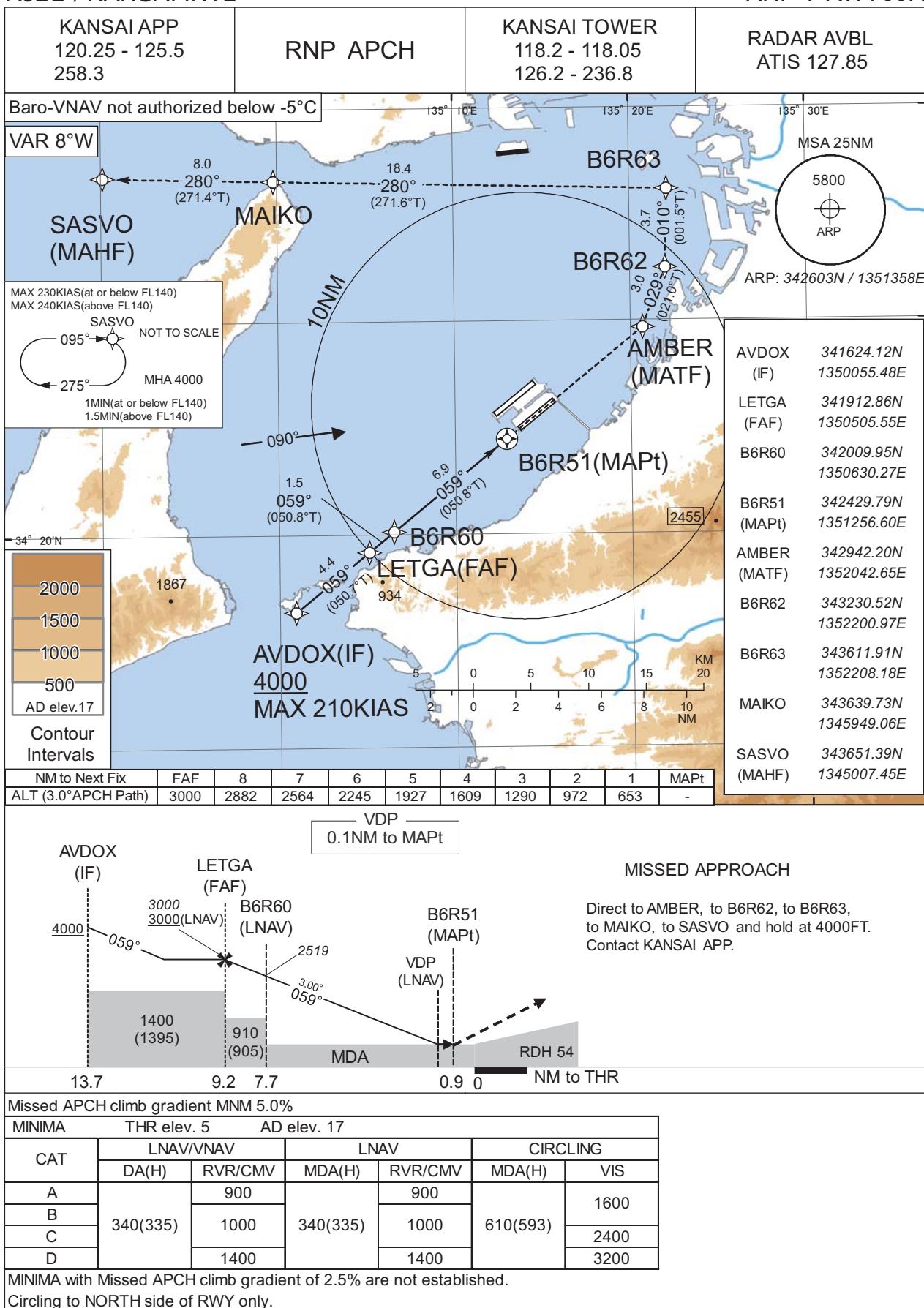
CHANGE : ATVID, MIBIB, OTBON, ELPPIK, B6R62, B6R63, SASVO established. JOLLY, B6R50, B6R53 abolished. PROC renamed. PROC course. ALT(3.0°APCH Path), ALT restriction at OTBON, ELPPIK, OCAB(H). Missed APCH PROC, NM to THR. Missed APCH climb gradient MMN.



INSTRUMENT APPROACH CHART

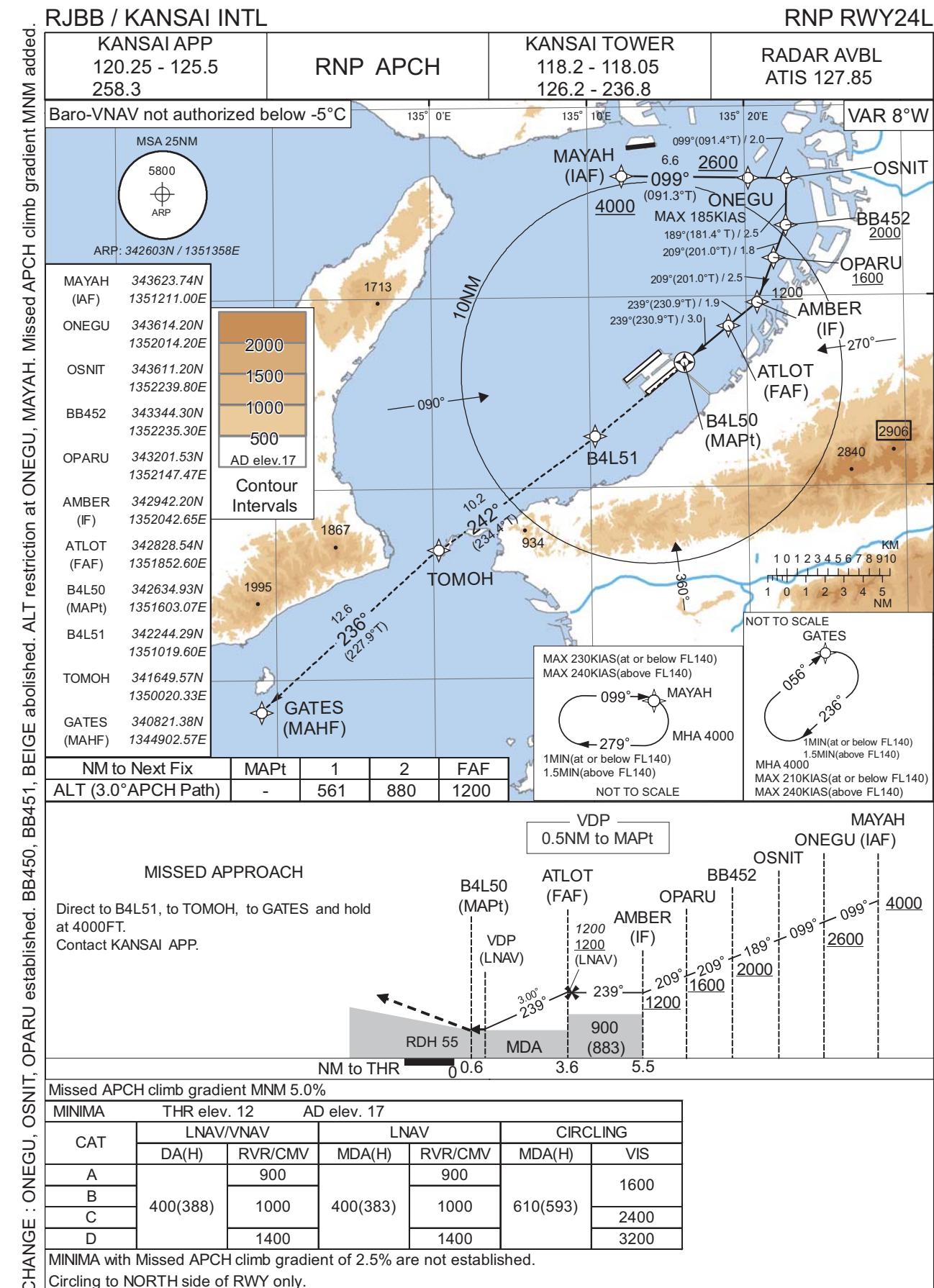
RJBB / KANSAI INTL

RNP Y RWY06R

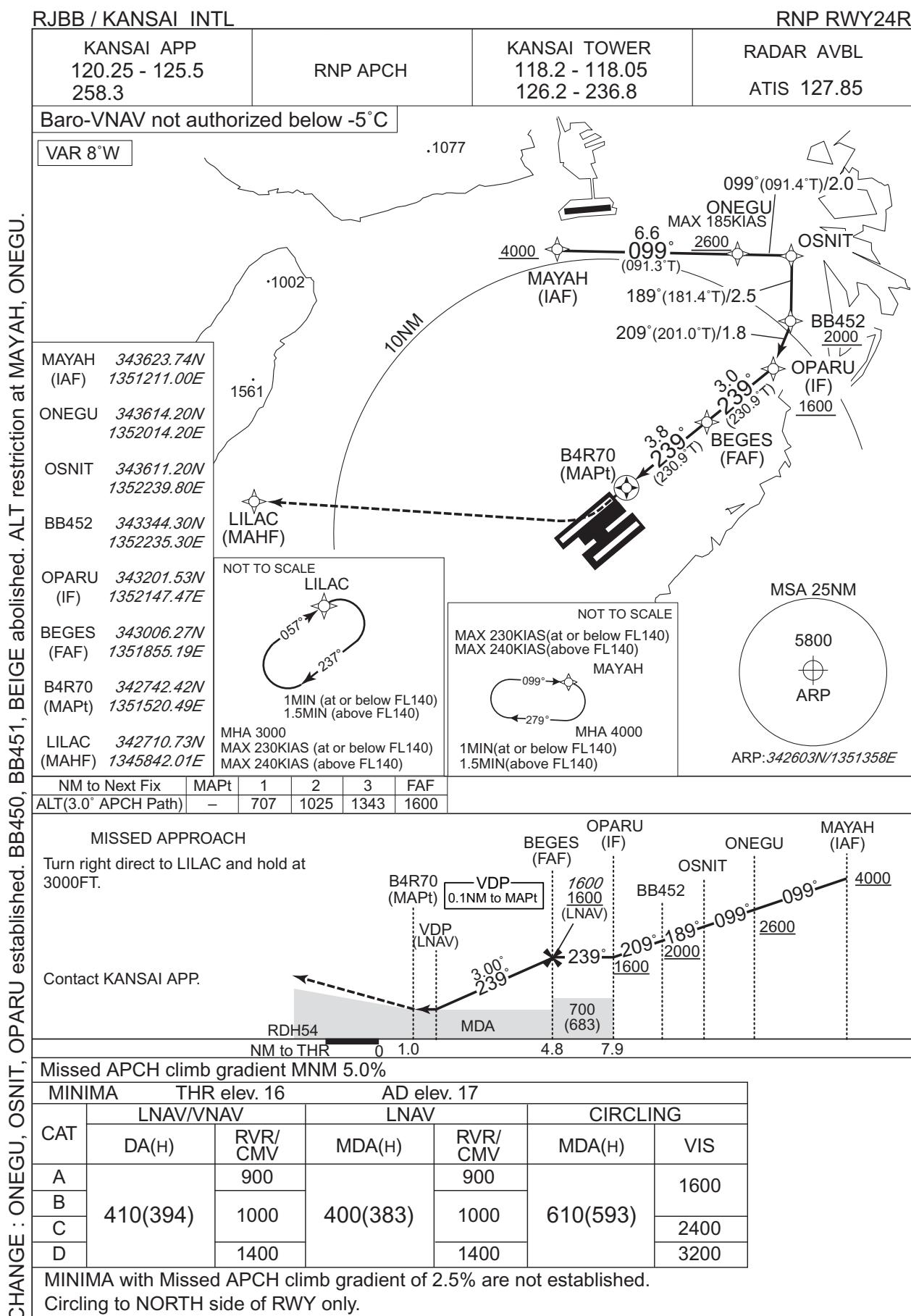


CHANGE : New PROC.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART



RJBB / KANSAI INTL

Visual REP

VAR 8°W(2023) / 5.0°W

KANSAI TOWER
118.2 - 118.05

◎ 6NM N

2NM NW OF RWY06L/24R

◎ 6NM W

WATERWAY

BRIDGE

RINKU

TARUI

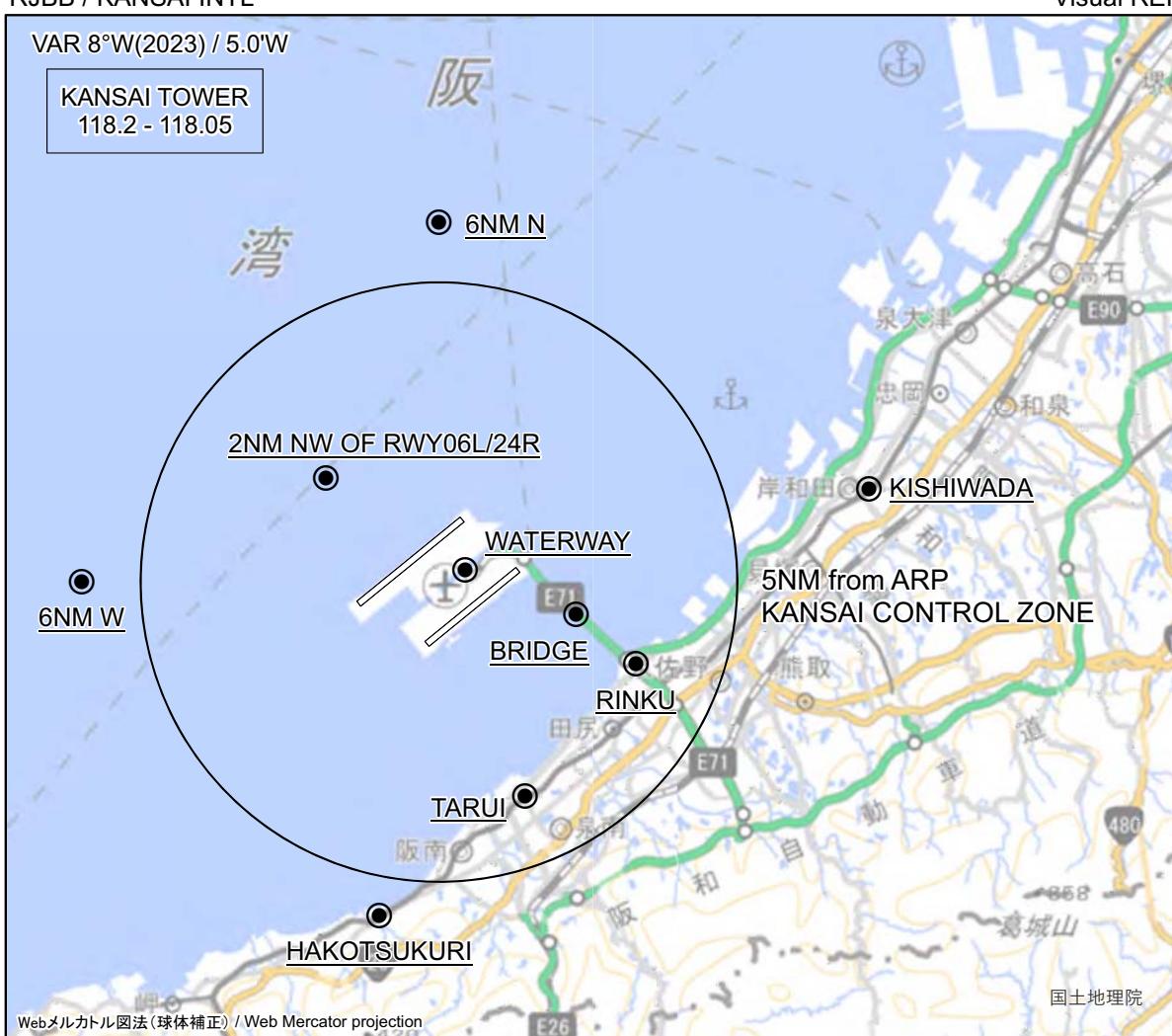
HAKOTSUKURI

5NM from ARP
KANSAI CONTROL ZONE

Webメルカトル図法(球体補正) / Web Mercator projection

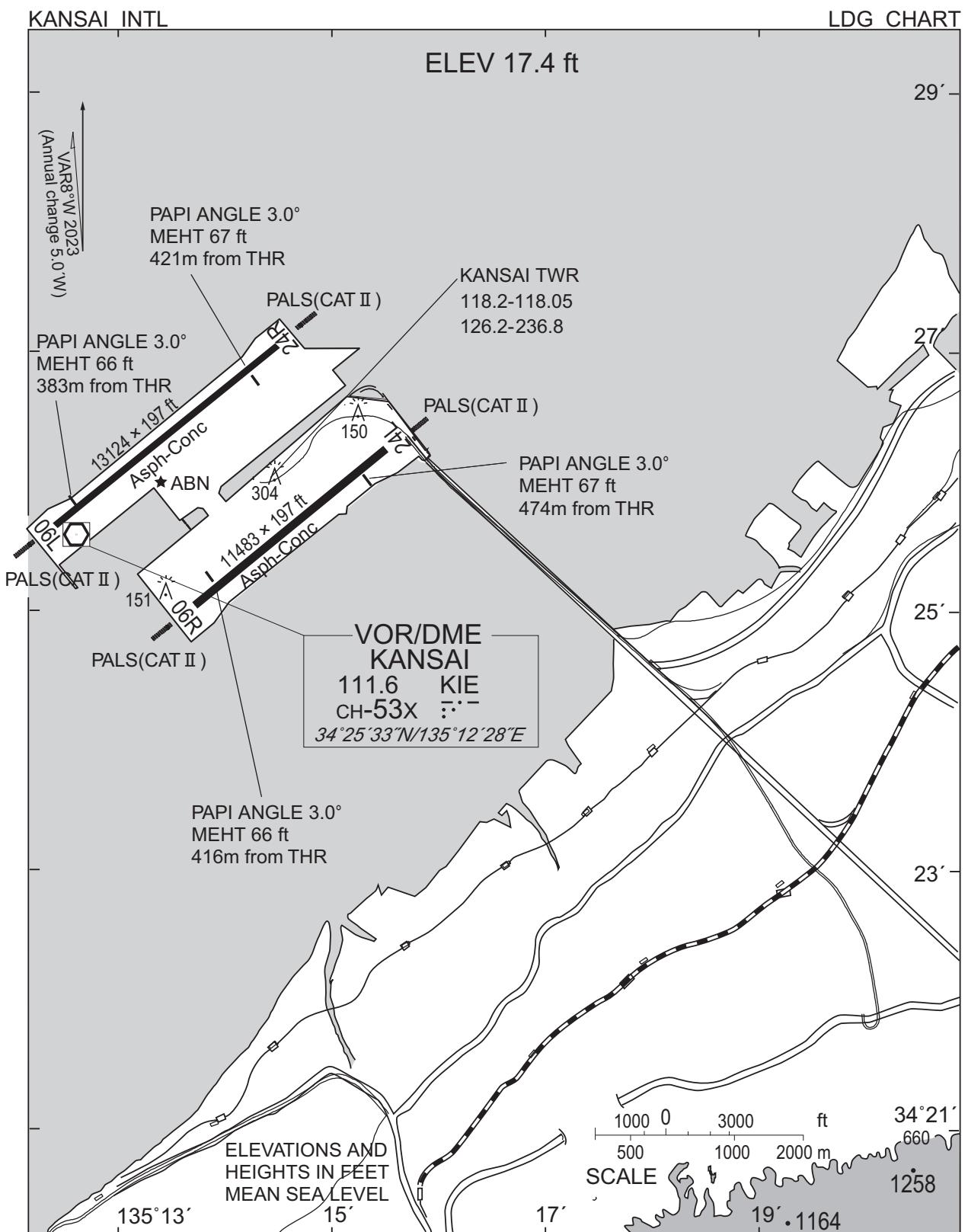
国土地理院

CHANGE : Visual REP(2NM NW of RWY06L/24R, Waterway, Bridge) established.



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

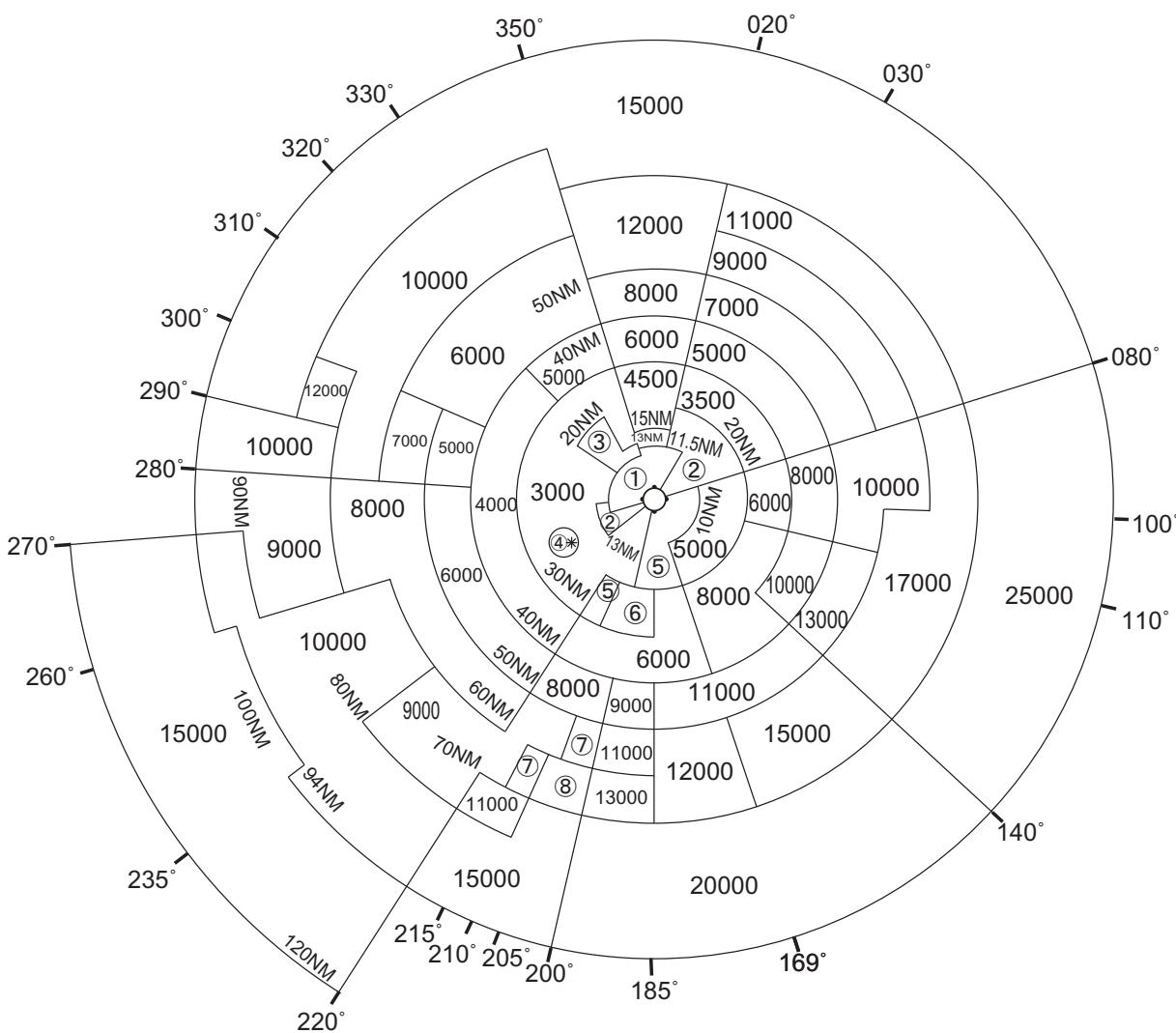
| Call sign | BRG / DIST from ARP | Remarks |
|-------------------------|---------------------|---|
| 6NM N | 360°T / 6.0NM | 海上 Over the sea |
| 2NM NW of RWY06L/24R | 320°T / 2.5NM | 海上 Over the sea |
| 岸和田 Kishiwada | 078°T / 7.4NM | 南海本線・岸和田駅 Station |
| ウォーターウェイ Waterway | 070°T / 0.5NM | 海上 Over the sea |
| 6NM W | 270°T / 6.0NM | 海上 Over the sea |
| ブリッジ Bridge | 110°T / 2.3NM | 連絡橋中間部 Middle section of the access bridge |
| りんくう Rinku | 113°T / 3.6NM | ビル Building |
| 樽井 Tarui | 158°T / 3.9NM | 南海本線・樽井駅 Station |
| 箱作 Hakotsukuri | 190°T / 5.6NM | 南海本線・箱作駅 Station |



RJBB / KANSAI INTL

Minimum Vectoring Altitude CHART

VAR 8°W (2023)



CHANGE : Updated.

CENTER : 342636N/1351511E (No.1 RADAR SITE)
CENTER : 342540N/1351343E (No.2 RADAR SITE)

*: 341405N/1344851E RADIUS : 3NM