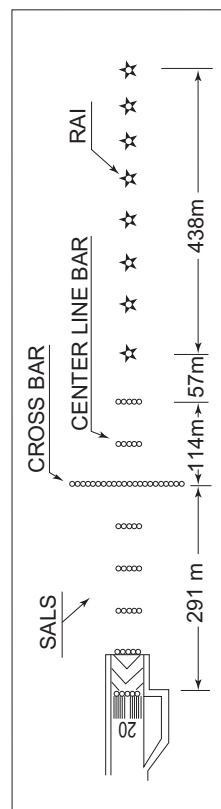
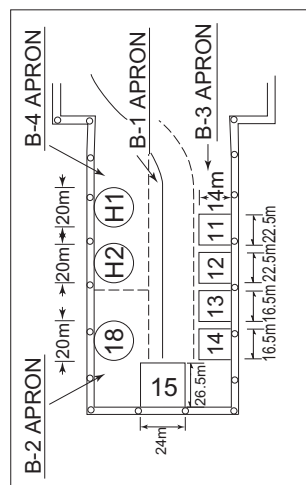
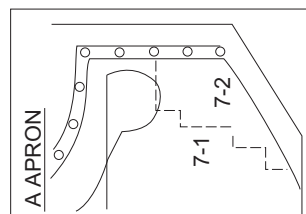
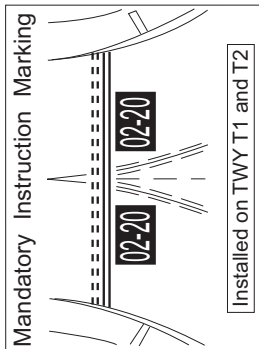


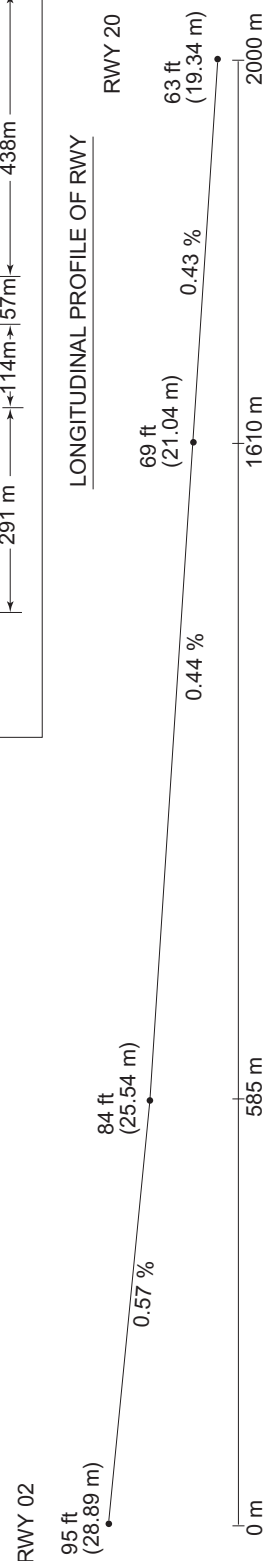
TOYAMA AP



| REMARKS: RWY GROOVING | 2000m x 30m |
|-------------------------------|----------------------|
| WIDTH & STRENGTH OF TWY | |
| T-1, T-2 | 30m |
| PCR | 741/F/A/X/T |
| DIMENSION & STRENGTH OF APRON | |
| B-1 | 23m 131m |
| PCR | 177/F/A/X/T |
| B-2 | 26.5m 62.8m |
| AUW | 5700kg/0.28M/F/A/X/T |
| B-3 | 15.5m 131m |
| AUW | 5700kg/0.28M/F/A/X/T |
| B-4 | 26.5m 68.2m |
| PCR | 325/F/A/X/T |
| 7-1 | PCR 785/R/B/W/T |
| 7-2 | PCR 576/R/B/W/T |



LONGITUDINAL PROFILE OF RWY



STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA

SID and TRANSITION

IKUJI FIVE DEPARTURE

RWY02 : Climb via TOE R010 to 7.0DME...

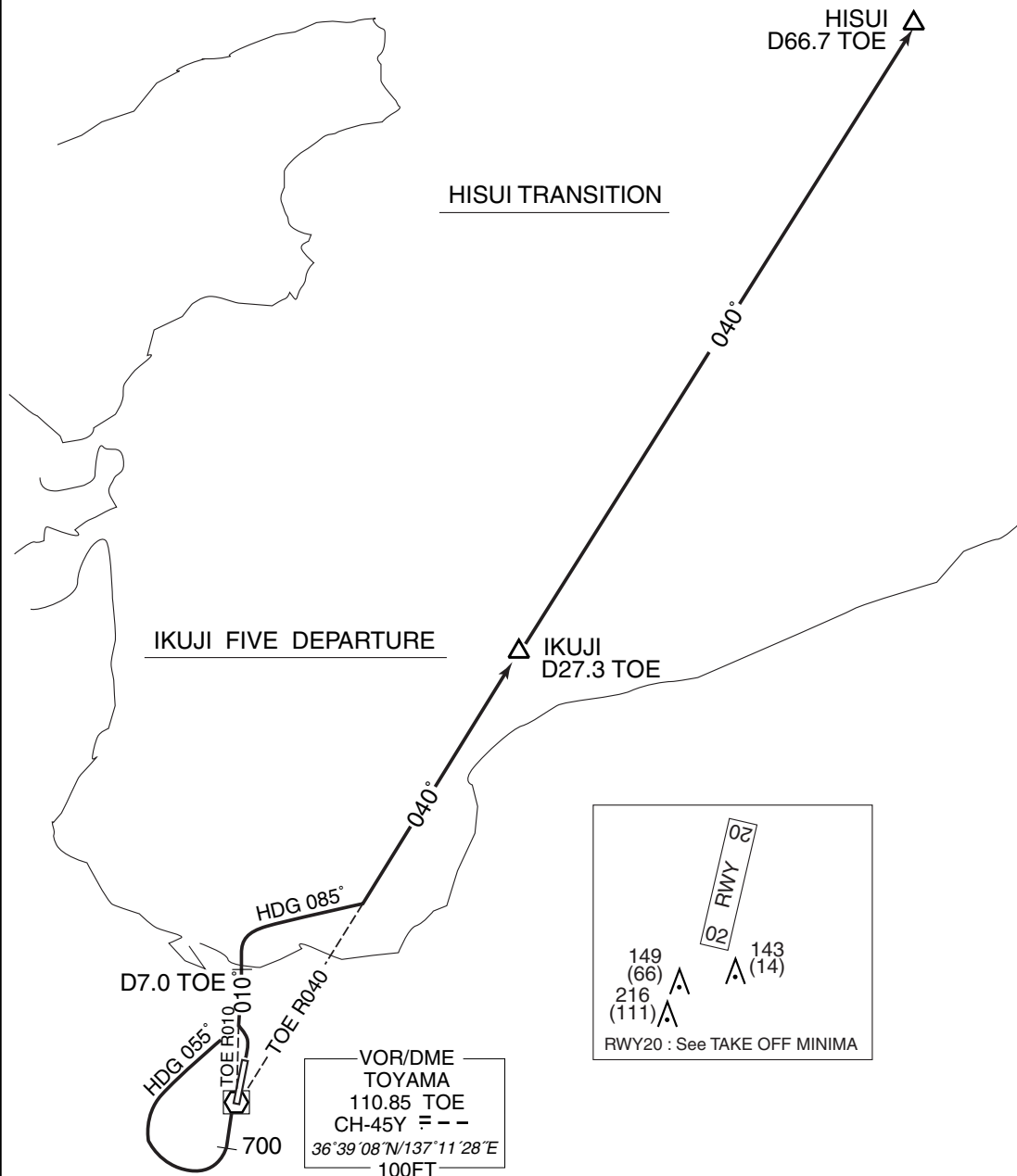
RWY20 : Climb RWY HDG until 700FT, turn right HDG 055° to intercept
and proceed via TOE R010 to TOE 7.0DME...
...turn right HDG 085° to intercept and proceed via
TOE R040 to IKUJI.

NOTE RWY20 : 5.0% climb gradient required up to 2000FT.

OBST ALT 762FT located at 3.8NM 202° FM end of RWY20.

HISUI TRANSITION

From over IKUJI, climb via TOE R040 to HISUI.



STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA

SID

URUSI REVERSAL FOUR DEPARTURE

RWY02 : Climb RWY HDG until 700FT, turn left, climb...

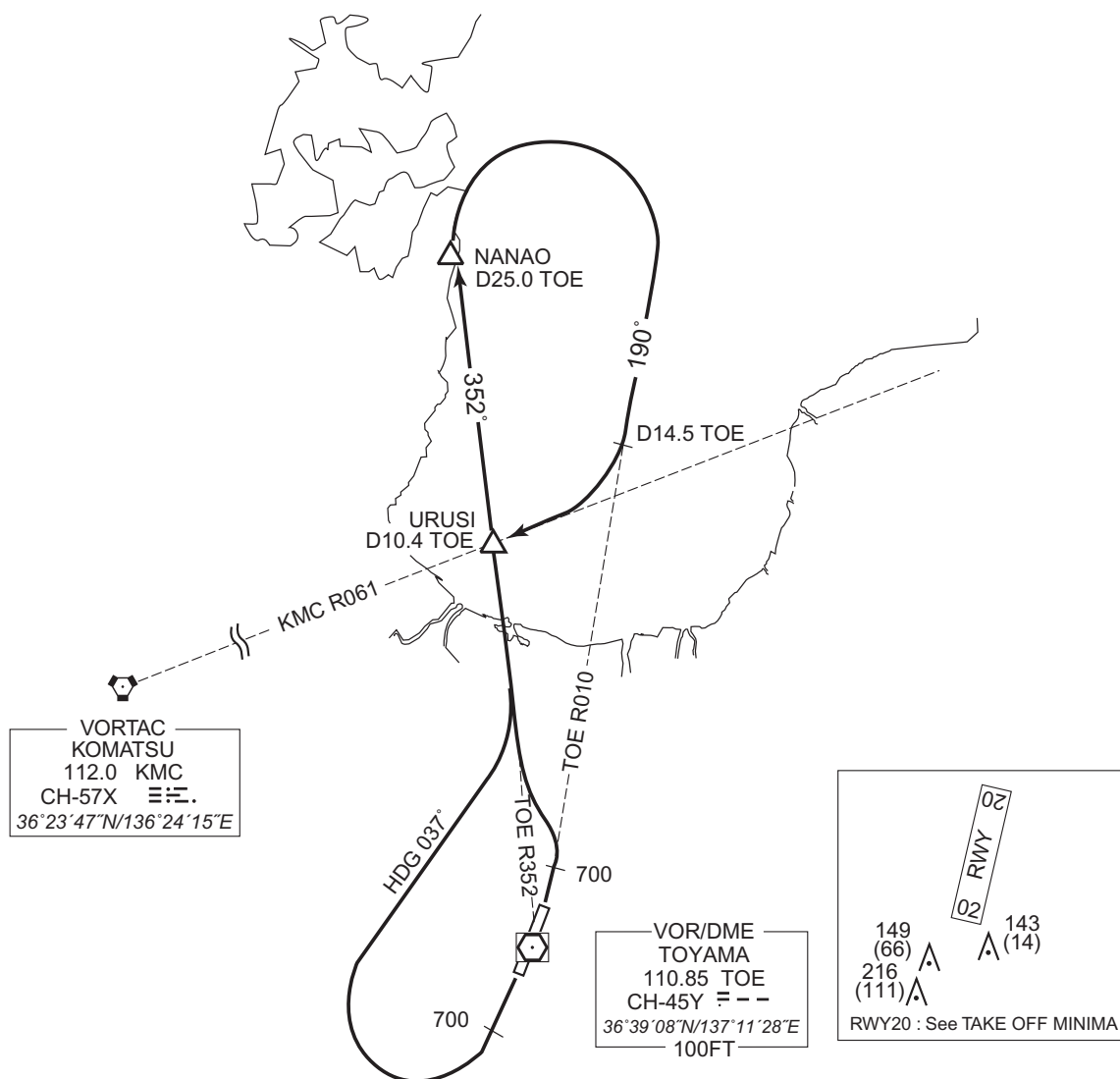
RWY20 : Climb RWY HDG until 700FT, turn right HDG 037° to intercept and proceed...
...via TOE R352 to NANAO, turn right, proceed via TOE R010 to
intercept and proceed via KMC R061 to URUSI.

NOTE RWY02 : 4.0% climb gradient required up to 1000FT.

OBST ALT 621FT located at 2.8NM 345° FM end of RWY02.

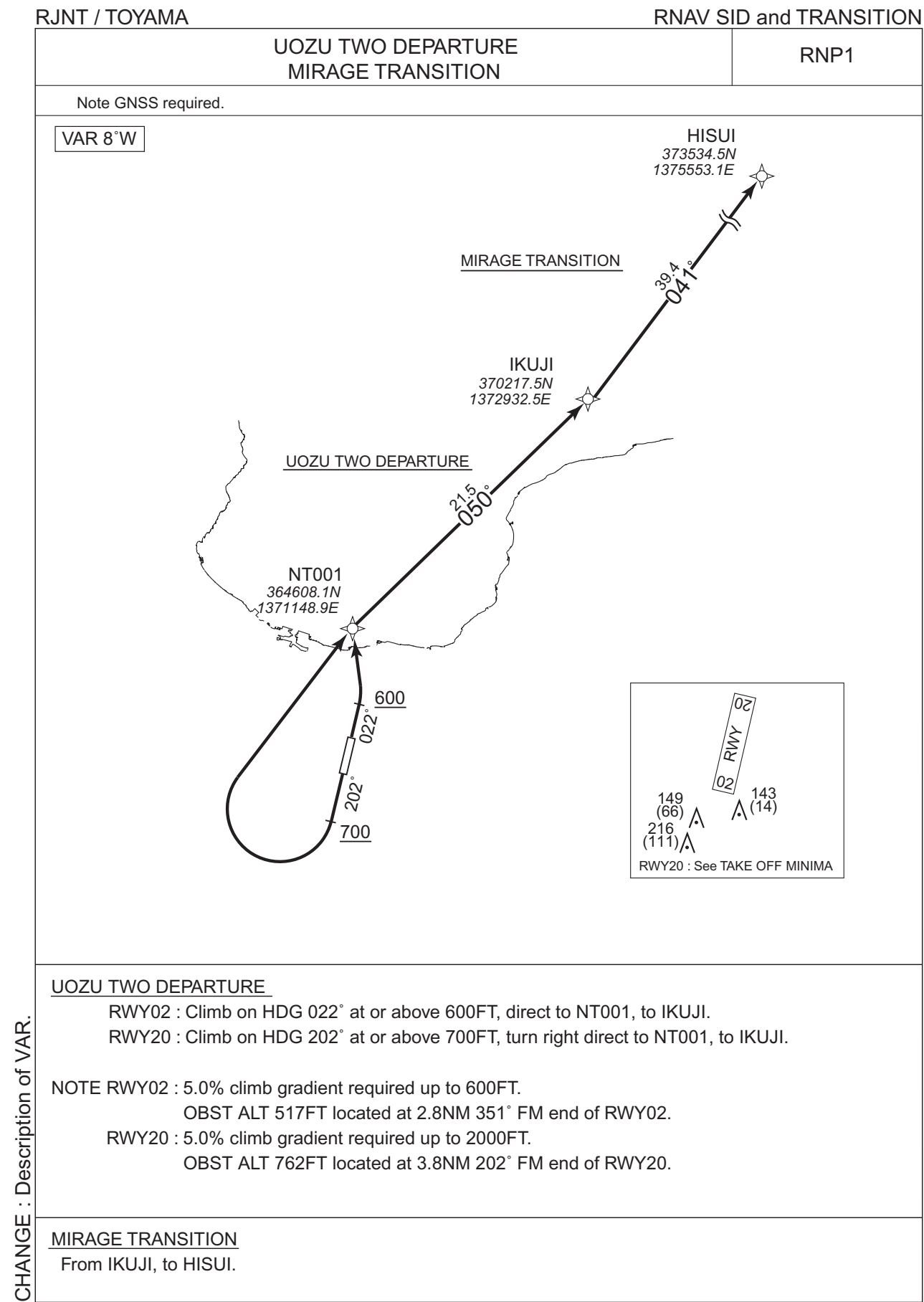
RWY20 : 5.0% climb gradient required up to 2000FT.

OBST ALT 762FT located at 3.8NM 202° FM end of RWY20.



CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART -INSTRUMENT



STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA

RNAV SID and TRANSITION

| UOZU TWO DEPARTURE | | | | | | | | | | | |
|--------------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| RWY02 | | | | | | | | | | | |
| Serial Number | 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 | - | - | 022 (013.5) | -8.5 | - | - | +600 | - | - | RNP1 |
| 002 | DF | NT001 | - | - | -8.5 | - | - | - | - | - | RNP1 |
| 003 | TF | IKUJI | - | 050 (041.2) | -8.5 | 21.5 | - | - | - | - | RNP1 |
| RWY20 | | | | | | | | | | | |
| Serial Number | 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 | - | - | 202 (193.5) | -8.5 | - | - | +700 | - | - | RNP1 |
| 002 | DF | NT001 | - | - | -8.5 | - | R | - | - | - | RNP1 |
| 003 | TF | IKUJI | - | 050 (041.2) | -8.5 | 21.5 | - | - | - | - | RNP1 |
| MIRAGE 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 | IKUJI | - | - | -8.5 | - | - | - | - | - | RNP1 |
| 002 | TF | HISUI | - | 041 (032.1) | -8.5 | 39.4 | - | - | - | - | RNP1 |

CHANGE : Navigation Specification(Basic RNP1 → RNP1).

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA

STAR

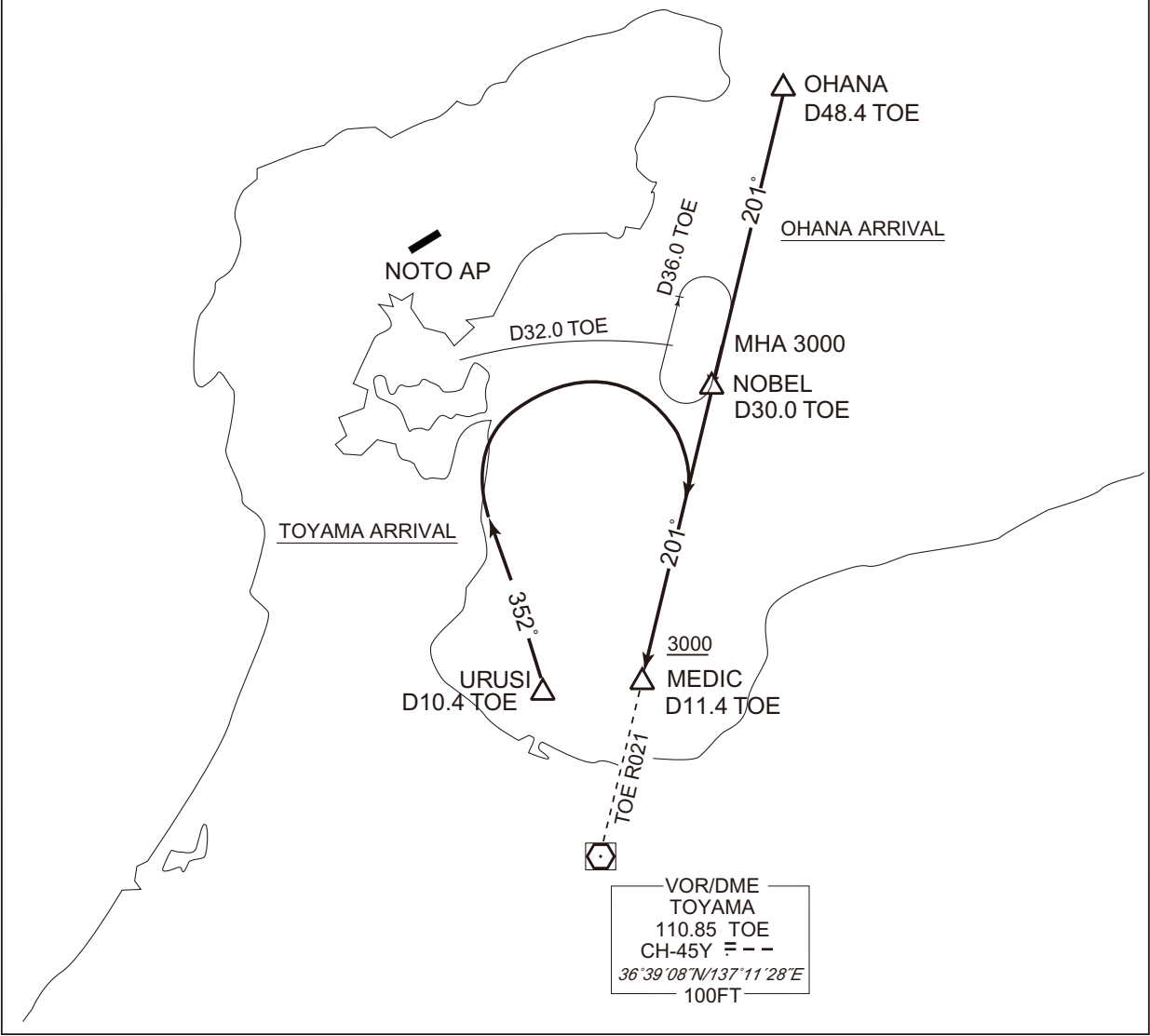
OHANA ARRIVAL

From over OHANA, proceed via TOE R021 to MEDIC.
Cross MEDIC at or above 3000FT.

TOYAMA ARRIVAL

From over URUSI, proceed via TOE R352, turn right to intercept and proceed via
TOE R021 to MEDIC within TOE 32.0DME.
Cross MEDIC at or above 3000FT.

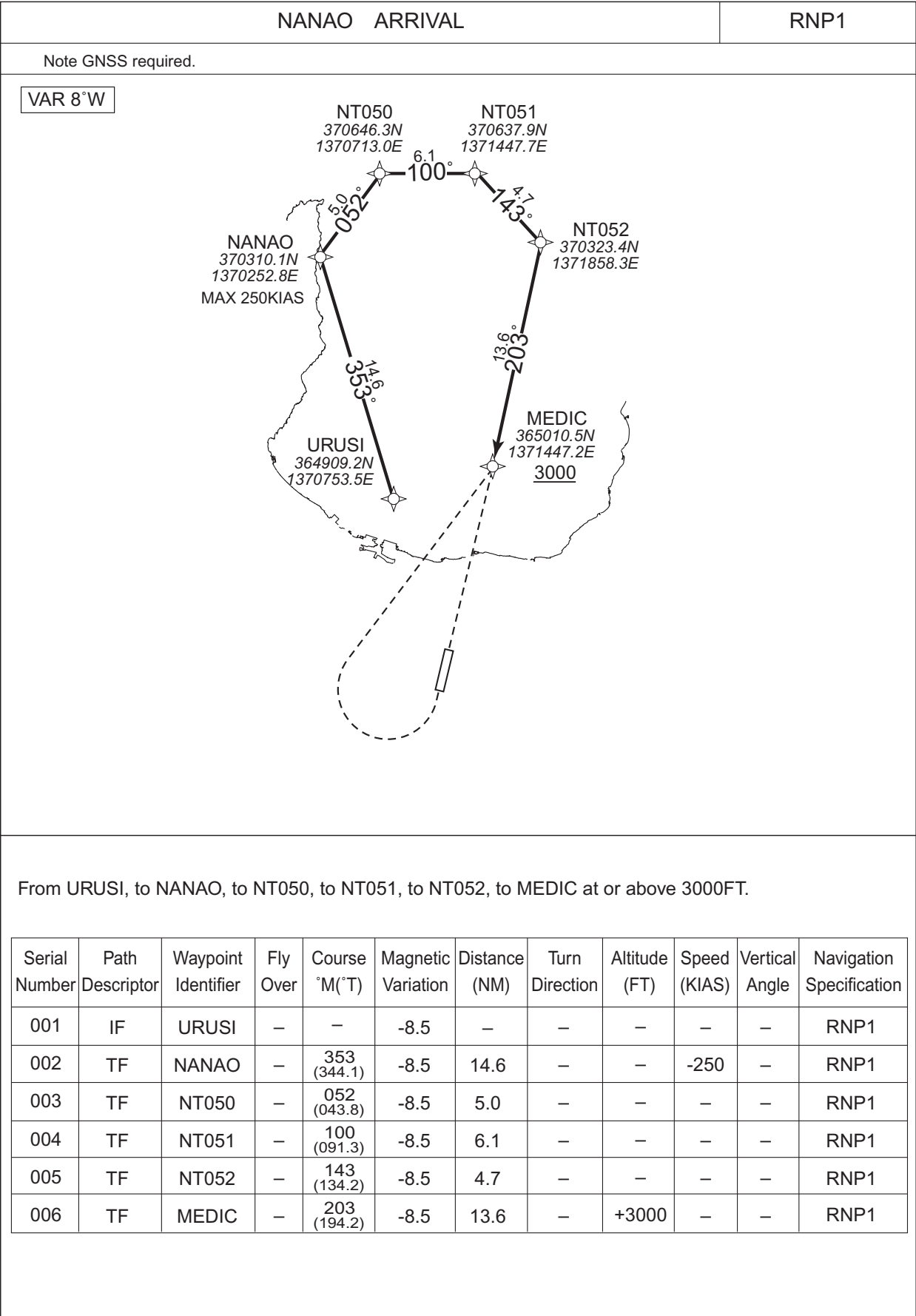
CHANGE : HLDG pattern(MEDIC) abolished.



STANDARD ARRIVAL CHART -INSTRUMENT

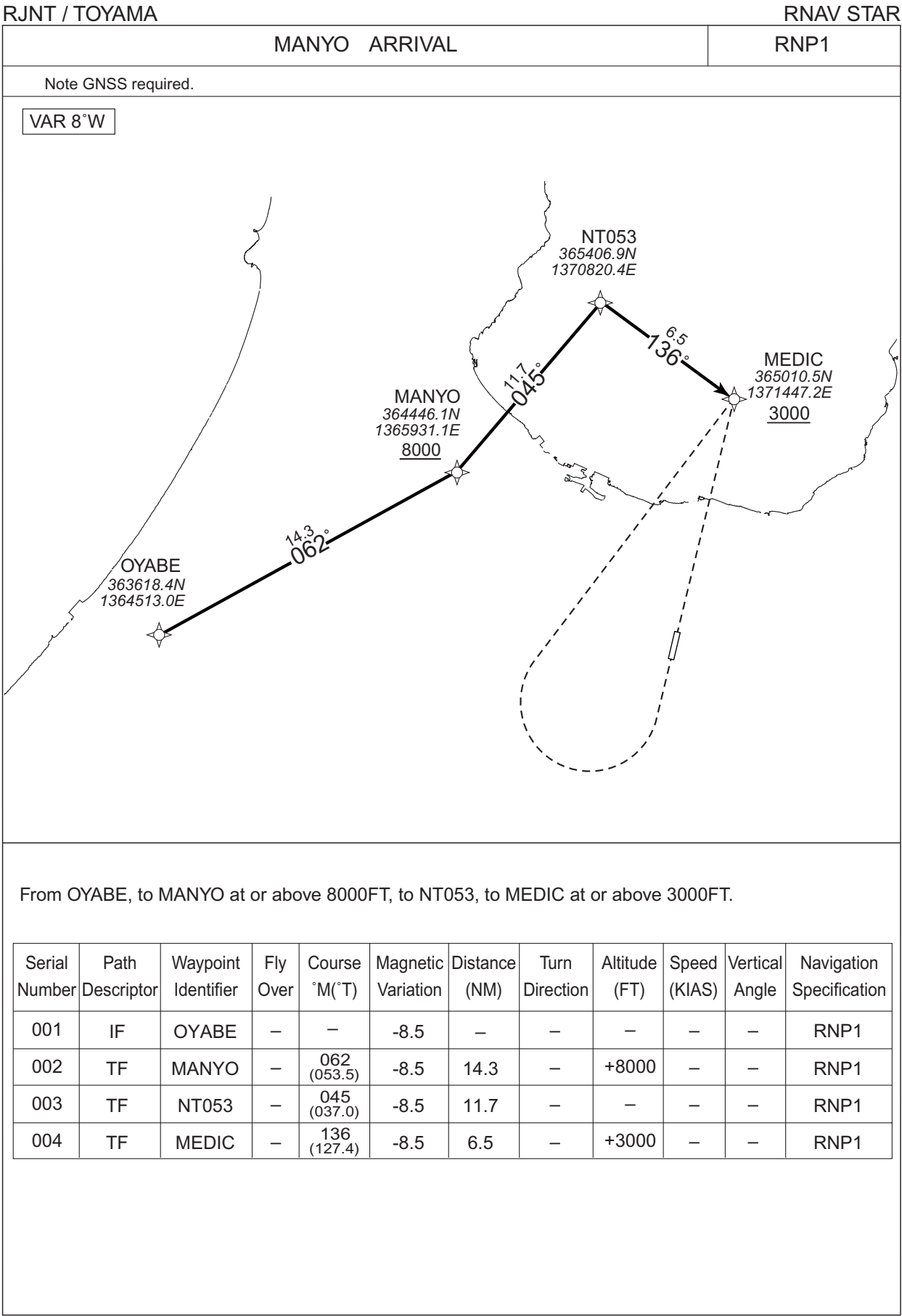
RJNT / TOYAMA

RNAV STAR



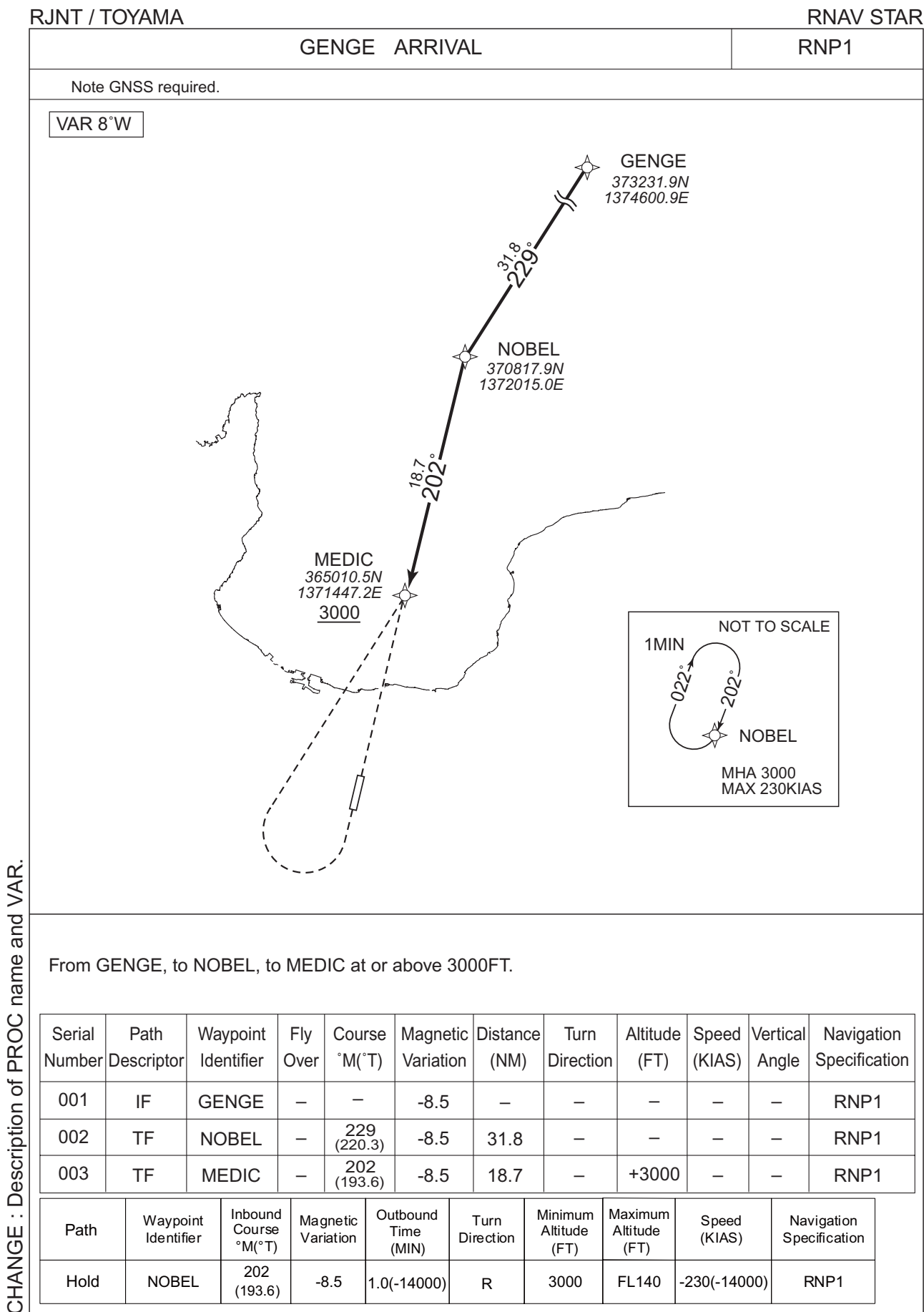
CHANGE : Description of PROC name and VAR.

STANDARD ARRIVAL CHART -INSTRUMENT



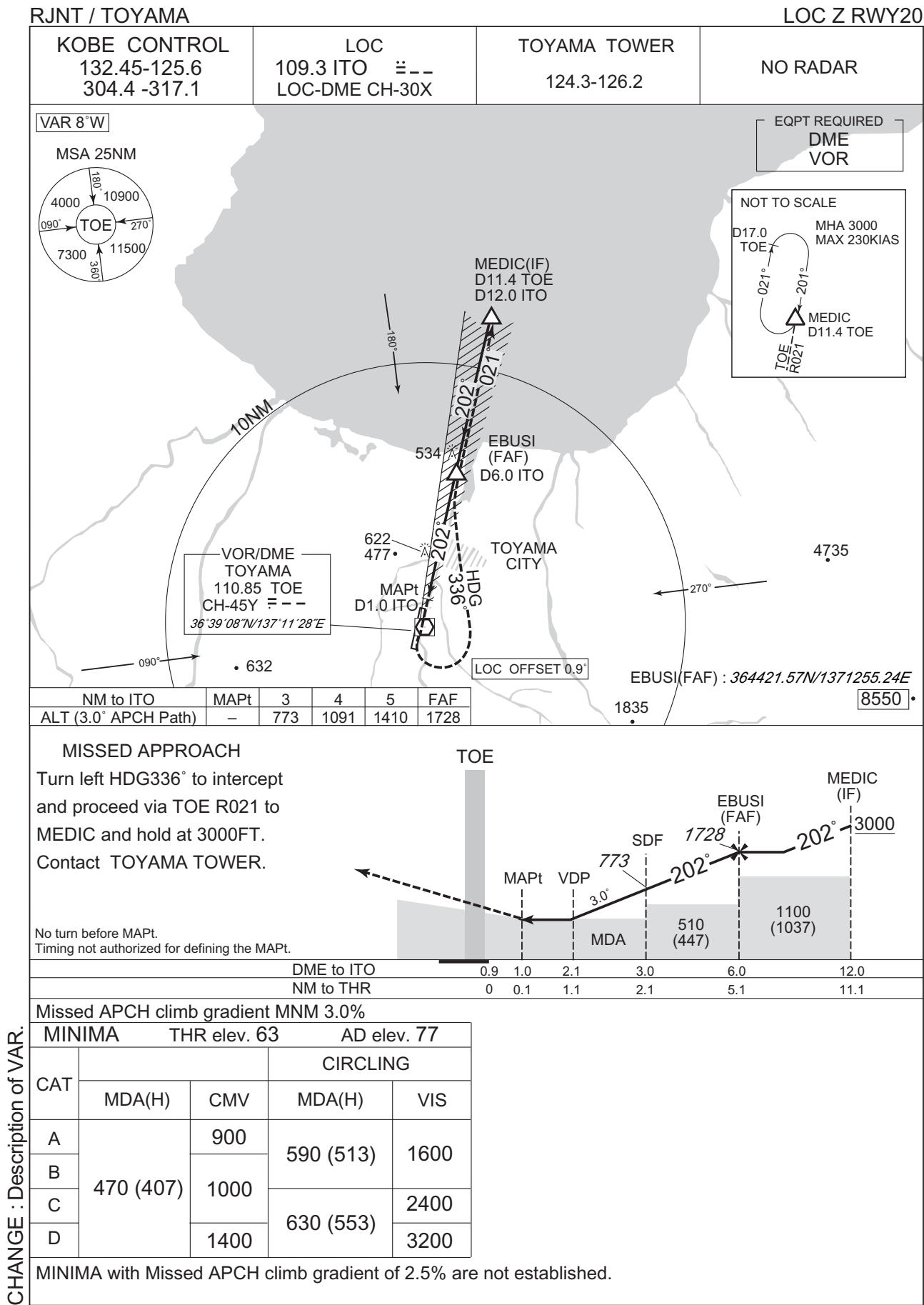
CHANGE : Description of PROC name and VAR.

STANDARD ARRIVAL CHART -INSTRUMENT



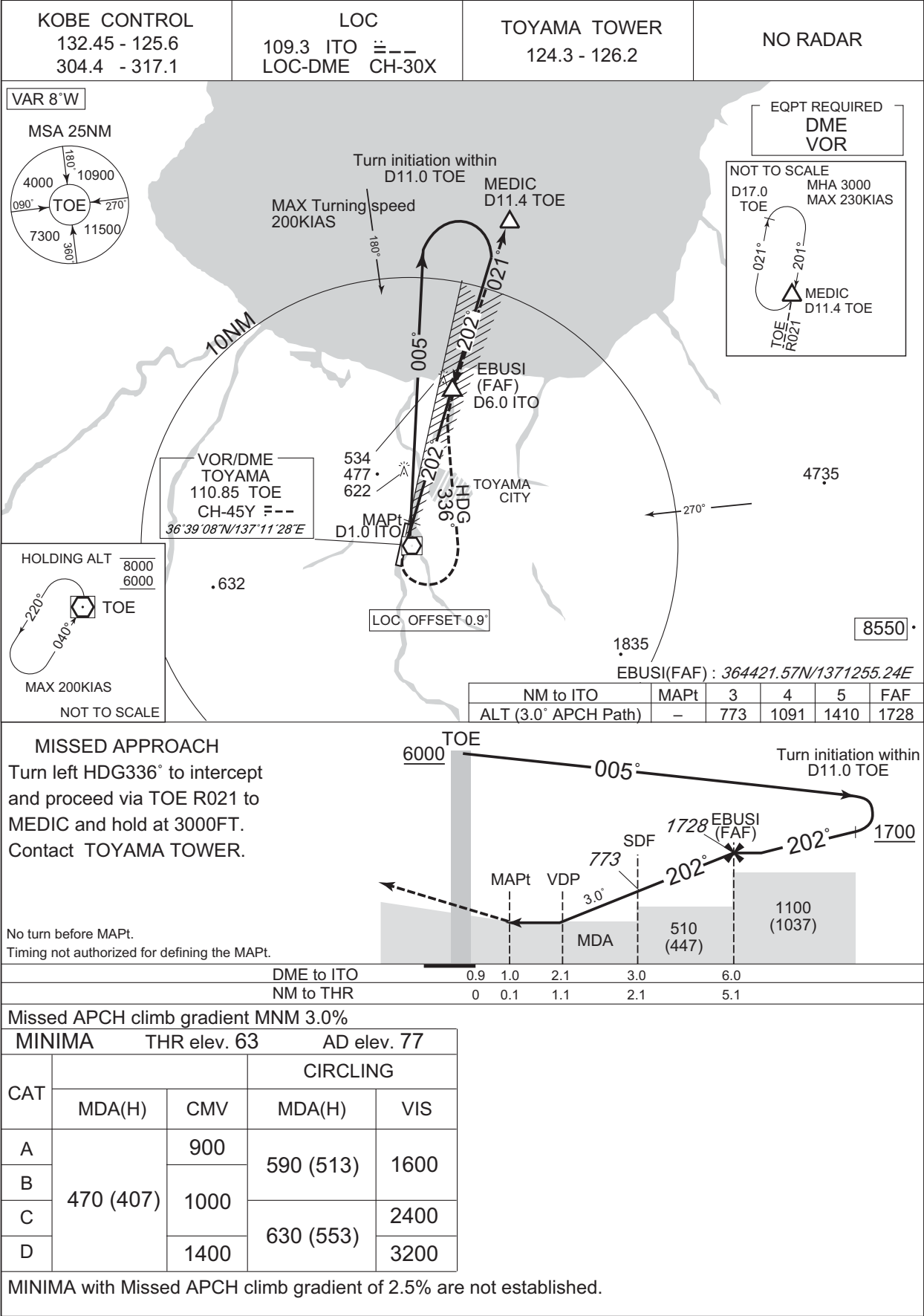
CHANGE : Description of PROC name and VAR.

INSTRUMENT APPROACH CHART



INSTRUMENT APPROACH CHART

RJNT / TOYAMALOC Y RWY20



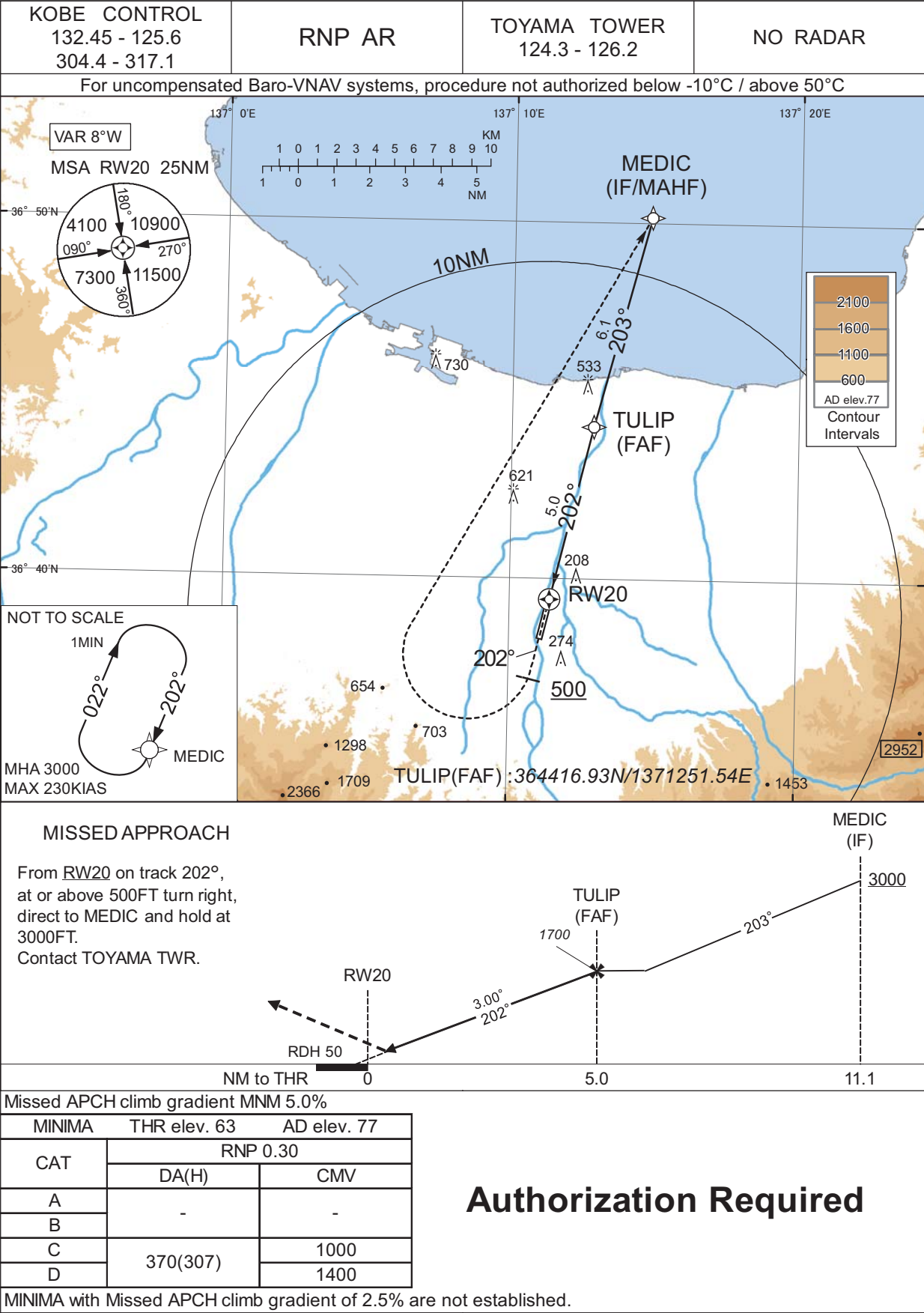
CHANGE : Missed APCH for using VOR/DME abolished. HLDG pattern for using NAVAID abolished.



INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNP Y RWY20(AR)



CHANGE : HLDG pattern for using NAVAID abolished.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNP Y RWY20(AR)

Coding Table

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001 | IF | MEDIC | - | - | -8.5 | - | - | +3000 | - | - | - |
| 002 | TF | TULIP | - | 203 (194.7) | -8.5 | 6.1 | - | 1700 | - | - | 1.0 |
| 003 | TF | RW20 | Y | 202 (193.5) | -8.5 | 5.0 | - | 113 | - | -3.00/50 | 0.3 |
| 004 | FA | - | - | 202 (193.5) | -8.5 | - | - | +500 | - | - | 1.0 |
| 005 | DF | MEDIC | - | - | -8.5 | - | R | 3000 | - | - | 1.0 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|---------------|-----------|
| Hold | MEDIC | 202 (193.6) | -8.5 | 1.0 (-14000) | R | 3000 | FL140 | -230 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates |
|---------------------|--------------------------|
| MEDIC | 365010.50N / 1371447.15E |
| TULIP | 364416.93N / 1371251.54E |
| RW20 | 363925.86N / 1371124.14E |

RJNT / TOYAMA

RNP RWY02(AR)

| | | | |
|---|------------------------|-------------------------------|----------|
| KOBE CONTROL 132.45 - 125.6 304.4 - 317.1 | RNP AR RF required. | TOYAMA TOWER 124.3 - 126.2 | NO RADAR |
|---|------------------------|-------------------------------|----------|

VAR 8°W

MSA RW02 25NM

36° 50'N

180° 090° 270° 360°

4400 10900 7300 11500

10NM

730 533 264

NT250 MAX 185KIAS

OWARA (FAF)

2075 2231

3238 1779

OWARA (FAF) 363607.70N/1370349.71E

2475

137° 0'E 137° 10'E

137° 20'E 1 0 1 2 3 4 5 6 7 8 9 10 KM

1 0 1 2 3 4 5 NM

MEDIC (IF/MAHF)

14.0 226°

621

7.6 022°

4.6 024°

NT252

3.1

7.1

290

RW02

022°/1.8

NOT TO SCALE

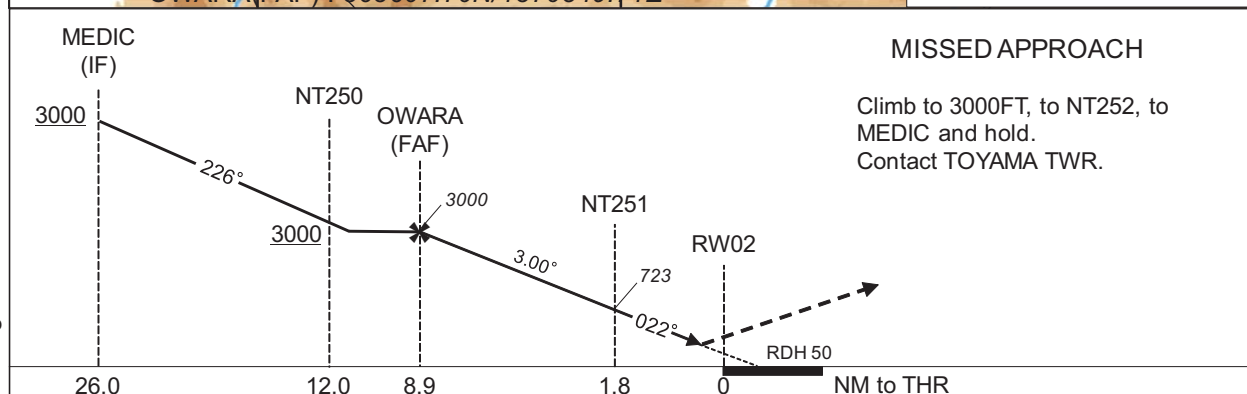
1MIN

022°

202°

MEDIC

MHA 3000 MAX 230KIAS



| | | |
|--------|--------------|-------------|
| MINIMA | THR elev. 95 | AD elev. 77 |
| CAT | RNP 0.30 | |
| | DA(H) | CMV |
| A | - | - |
| B | | |
| C | 451(356) | 1800 |
| D | | 2000 |

Authorization Required

CHANGE : HLDG pattern for using NAVAID abolished.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNP RWY02(AR)

Coding Table

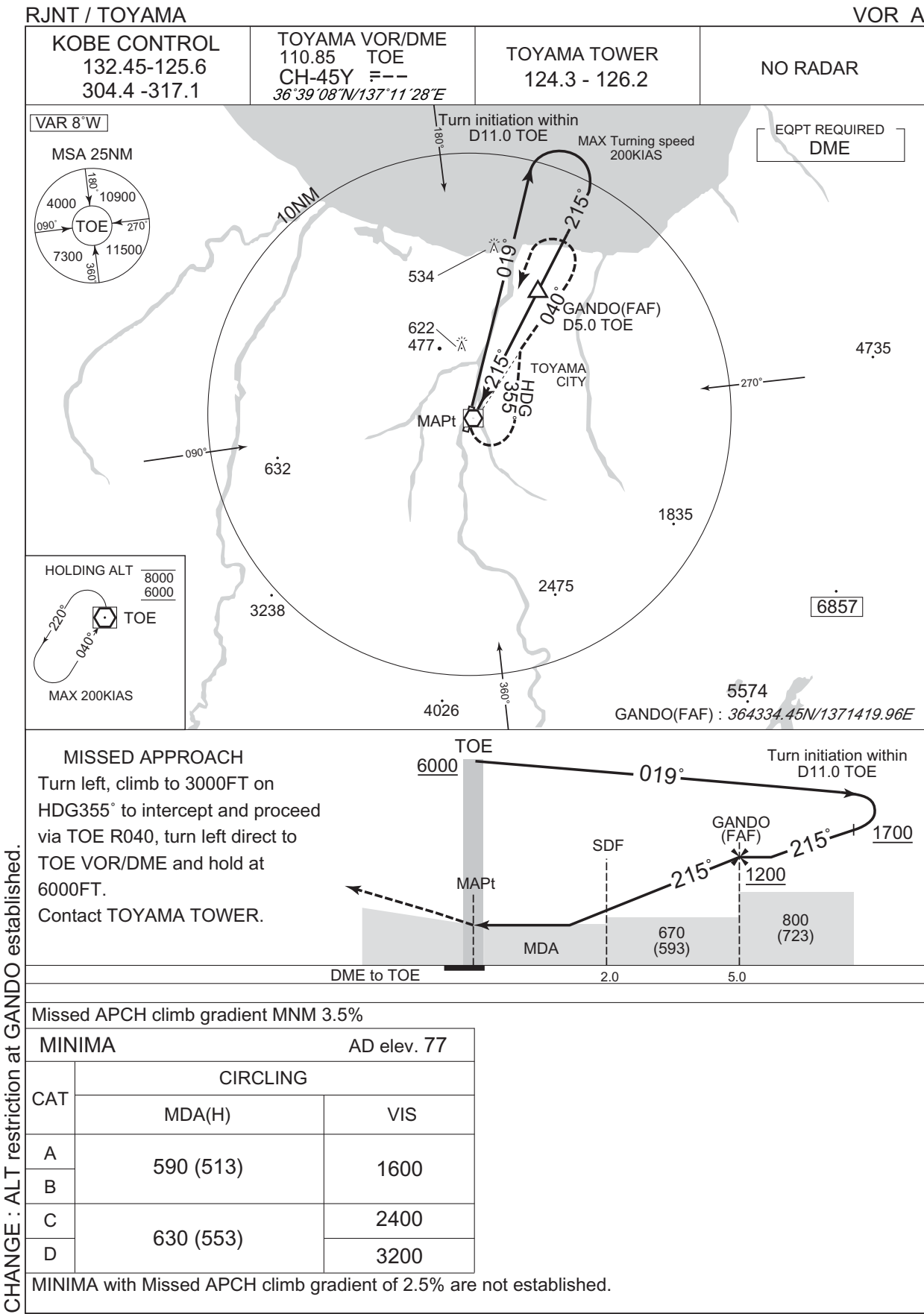
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|-----------------|-----------|
| 001 | IF | MEDIC | - | - | -8.5 | - | - | +3000 | - | - | - |
| 002 | TF | NT250 | - | 226 (217.2) | -8.5 | 14.0 | - | +3000 | -185 | - | 1.0 |
| 003 | RF Center: NTRF1 r=2.87NM | OWARA | - | - | -8.5 | 3.1 | L | 3000 | - | - | 1.0 |
| 004 | RF Center: NTRF1 r=2.87NM | NT251 | - | - | -8.5 | 7.1 | L | 723 | - | -3.00 | 0.3 |
| 005 | TF | RW02 | Y | 022 (013.5) | -8.5 | 1.8 | - | 145 | - | -3.00/50 | 0.3 |
| 006 | TF | NT252 | - | 022 (013.5) | -8.5 | 7.6 | - | - | - | - | 1.0 |
| 007 | TF | MEDIC | - | 024 (015.0) | -8.5 | 4.6 | - | 3000 | - | - | 1.0 |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|------------------|-----------|
| Hold | MEDIC | 202 (193.6) | -8.5 | 1.0 (-14000) | R | 3000 | FL140 | -230 (-14000) | 1.0 |

Waypoint Coordinates

| Waypoint Identifier | Coordinates | RF Arc Center Identifier | Coordinates |
|---------------------|--------------------------|--------------------------|--------------------------|
| MEDIC | 365010.50N / 1371447.15E | NTRF1 | 363717.08N / 1370705.51E |
| NT250 | 363901.33N / 1370415.09E | | |
| OWARA | 363607.70N / 1370349.71E | | |
| NT251 | 363636.65N / 1371033.43E | | |
| RW02 | 363822.79N / 1371105.23E | | |
| NT252 | 364543.55N / 1371317.58E | | |

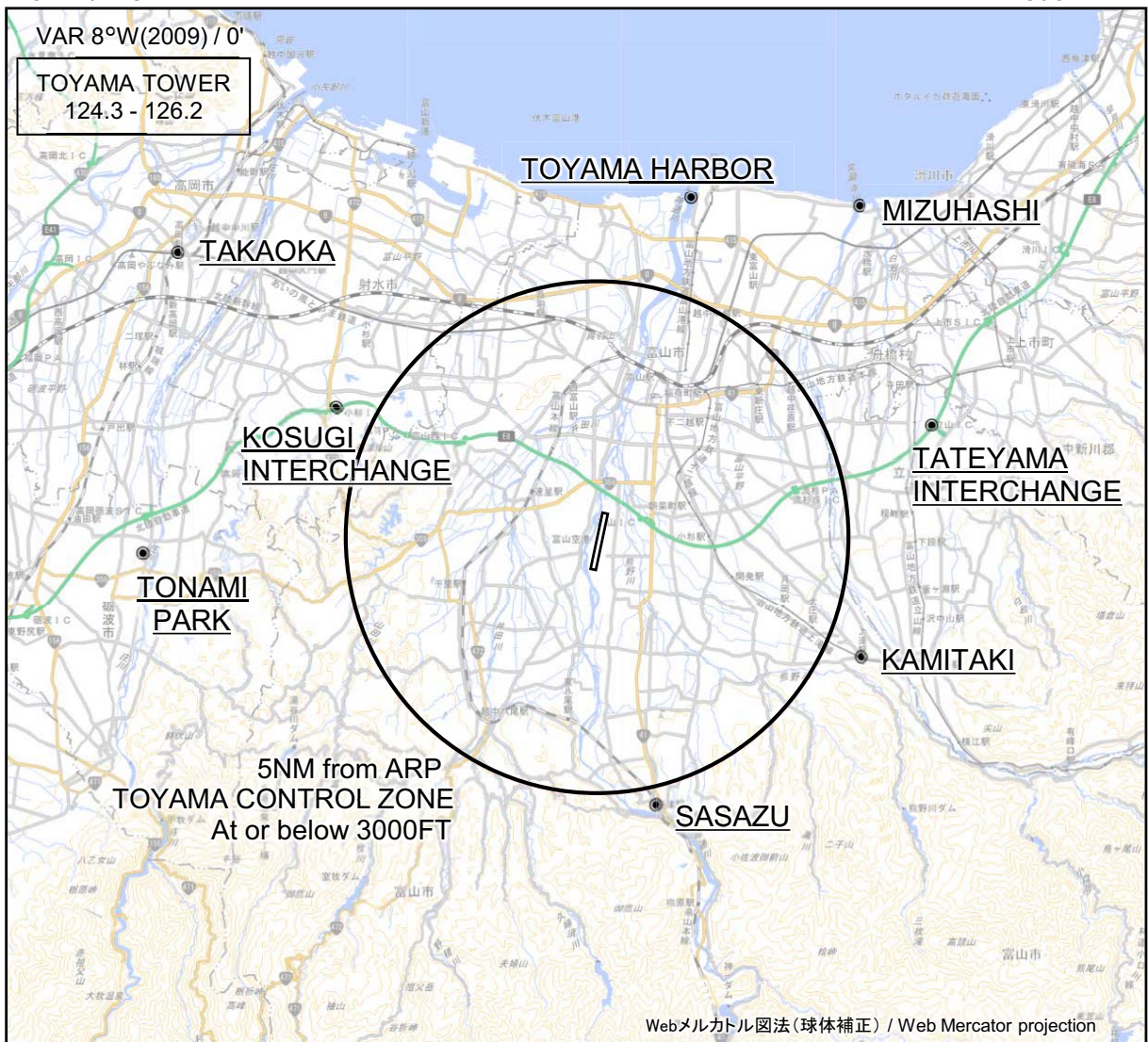
INSTRUMENT APPROACH CHART



CHANGE : ALT restriction at GANDO established.

RJNT / TOYAMA

Visual REP

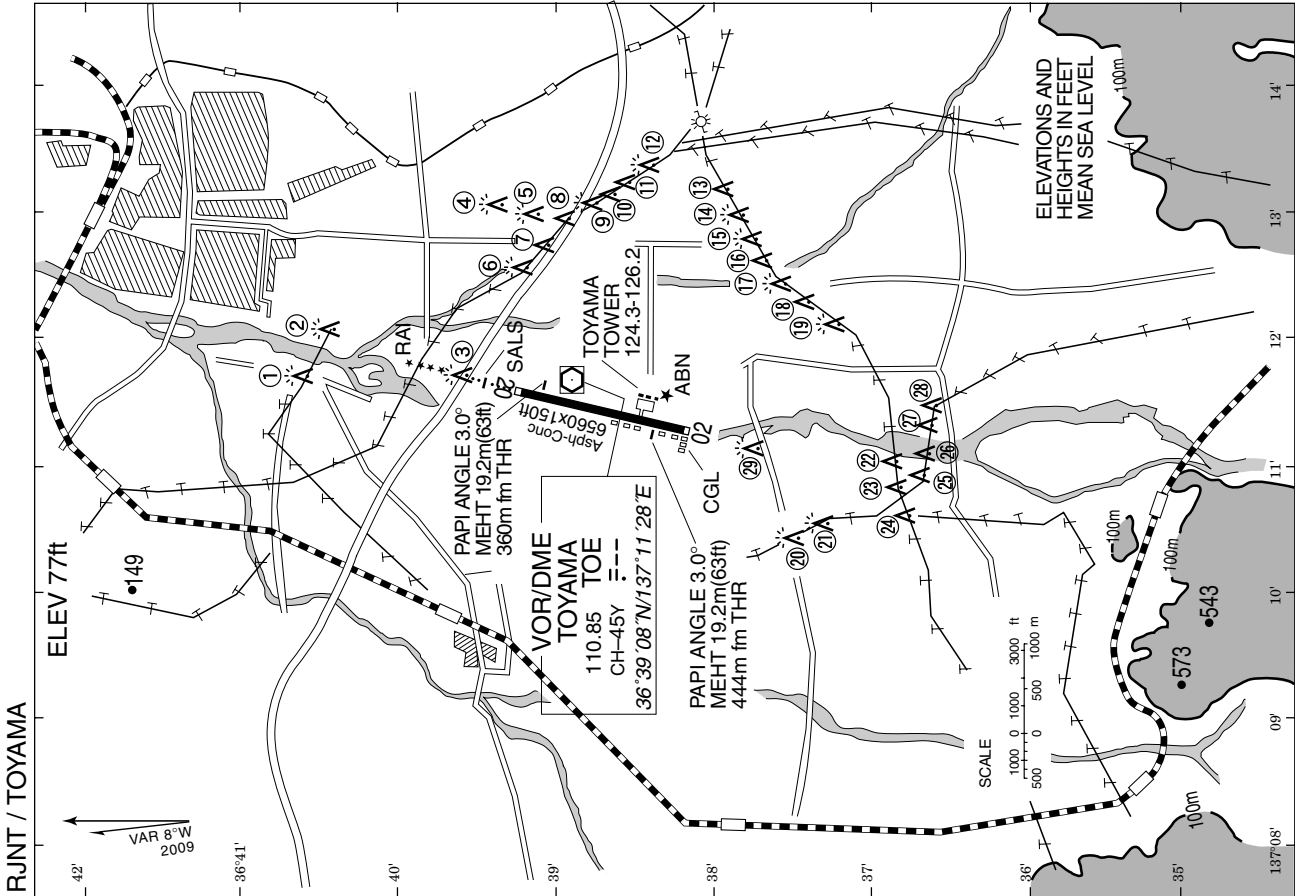


※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

| Call sign | BRG / DIST from ARP | Remarks |
|------------------------------------|---------------------|-------------------------------|
| 富山ハーバー Toyama harbor | 016°T / 6.9NM | 港 Harbor |
| 水橋 Mizuhashi | 039°T / 8.3NM | (常願寺川)河口 River-mouth |
| 高岡 Takaoka | 304°T / 10.0NM | JR駅 JR Station |
| 小杉インターチェンジ Kosugi Interchange | 296°T / 5.8NM | 北陸自動車道インターチェンジ Interchange |
| 立山インターチェンジ Tateyama Interchange | 072°T / 7.0NM | 北陸自動車道インターチェンジ Interchange |
| 砺波パーク Tonami Park | 268°T / 9.0NM | 砺波総合運動公園 Park |
| 上滝 Kamitaki | 114°T / 5.7NM | 駅 Station |
| 笹津 Sasazu | 167°T / 5.3NM | JR駅 JR Station |

CHANGE : Map updated. BRG/DIST from ARP.

| LDG CHART | | | | |
|---------------|----------|----------|----------------------------------|--------------|
| OBSTRCTION NR | AGL (FT) | MSL (FT) | AERONAUTICAL OBSTRUCTIONS LIGHTS | DAY MARKINGS |
| 1 | 185 | 220 | ○ | ○ |
| 2 | 176 | 213 | ○ | ○ |
| 3 | 45 | 97 | ○ | ○ |
| 4 | 187 | 256 | ○ | ○ |
| 5 | 159 | 233 | ○ | ○ |
| 6 | 178 | 246 | ○ | ○ |
| 7 | 173 | 249 | — | ○ |
| 8 | 192 | 262 | — | ○ |
| 9 | 189 | 259 | ○ | ○ |
| 10 | 189 | 263 | — | ○ |
| 11 | 189 | 282 | — | ○ |
| 12 | 189 | 299 | ○ | ○ |
| 13 | 120 | 212 | — | ○ |
| 14 | 135 | 261 | ○ | ○ |
| 15 | 167 | 273 | ○ | ○ |
| 16 | 125 | 236 | — | ○ |
| 17 | 125 | 238 | ○ | ○ |
| 18 | 110 | 228 | — | ○ |
| 19 | 125 | 249 | ○ | ○ |
| 20 | 120 | 231 | ○ | ○ |
| 21 | 103 | 222 | ○ | ○ |
| 22 | 132 | 270 | — | ○ |
| 23 | 132 | 279 | — | ○ |
| 24 | 135 | 286 | — | — |
| 25 | 51 | 223 | — | — |
| 26 | 71 | 243 | — | — |
| 27 | 135 | 283 | — | — |
| 28 | 120 | 266 | — | — |
| 29 | 47 | 149 | ○ | ○ |



RJNT / TOYAMA

Minimum Vectoring Altitude CHART

