RJNT / TOYAMA

AD CHART

TOYAMA AP

TRUE NORTH

CHANGE: Size of spot 15.

OVERRUN AREA EDGE LGT

RTHL

360.07m

PAPI Angle 3.0°
MEHT 19.2m(63ft)

VOR/DME(TOE)

TAXIING GUIDANCE SIGN

A-APRON

APRON FLOOD LGT

CGL

WDIL

PAPI Angle 3.0°
MEHT 19.2m(63ft)

900 m

444.25m

B-APRON

RWY THR ID LGT

TOWER

ABN

REMARKS : RWY GROOVING		2000m× 30m
WIDTH & STRENGTH OF TWY		
T-1, T-2	30m	PCN 42/F/A/X/T
DIMENSION & STRENGTH OF APRON		
B-1	23m	131m	PCN 14/F/A/X/T
B-2	26.5m	62.8m	AUW 5700kg
B-3	15.5m	131m	AUW 5700kg
B-4	26.5m	68.2m	PCN 40/F/A/X/T
7-1			PCN 52/R/B/X/T
7-2			PCN 16/R/B/X/T

Mandatory Instruction Marking

02-20
02-20

Installed on TWY T1 and T2

RAI

CROSS BAR

CENTER LINE BAR

SALS

438m

114m 57m

291 m

A APRON

7-2
7-1

B-4 APRON
B-1 APRON
B-3 APRON

B-2 APRON

18

14 13 12 11

H1

H2

15

20m 20m 20m

16.5m 16.5m 22.5m 22.5m

14m

26.5m

24m

LONGITUDINAL PROFILE OF RWY

RWY 20

63 ft
(19.34 m)

2000 m

0.43 %

69 ft
(21.04 m)

1610 m

0.44 %

84 ft
(25.54 m)

585 m

0.57 %

95 ft
(28.89 m)

RWY 02

0 m

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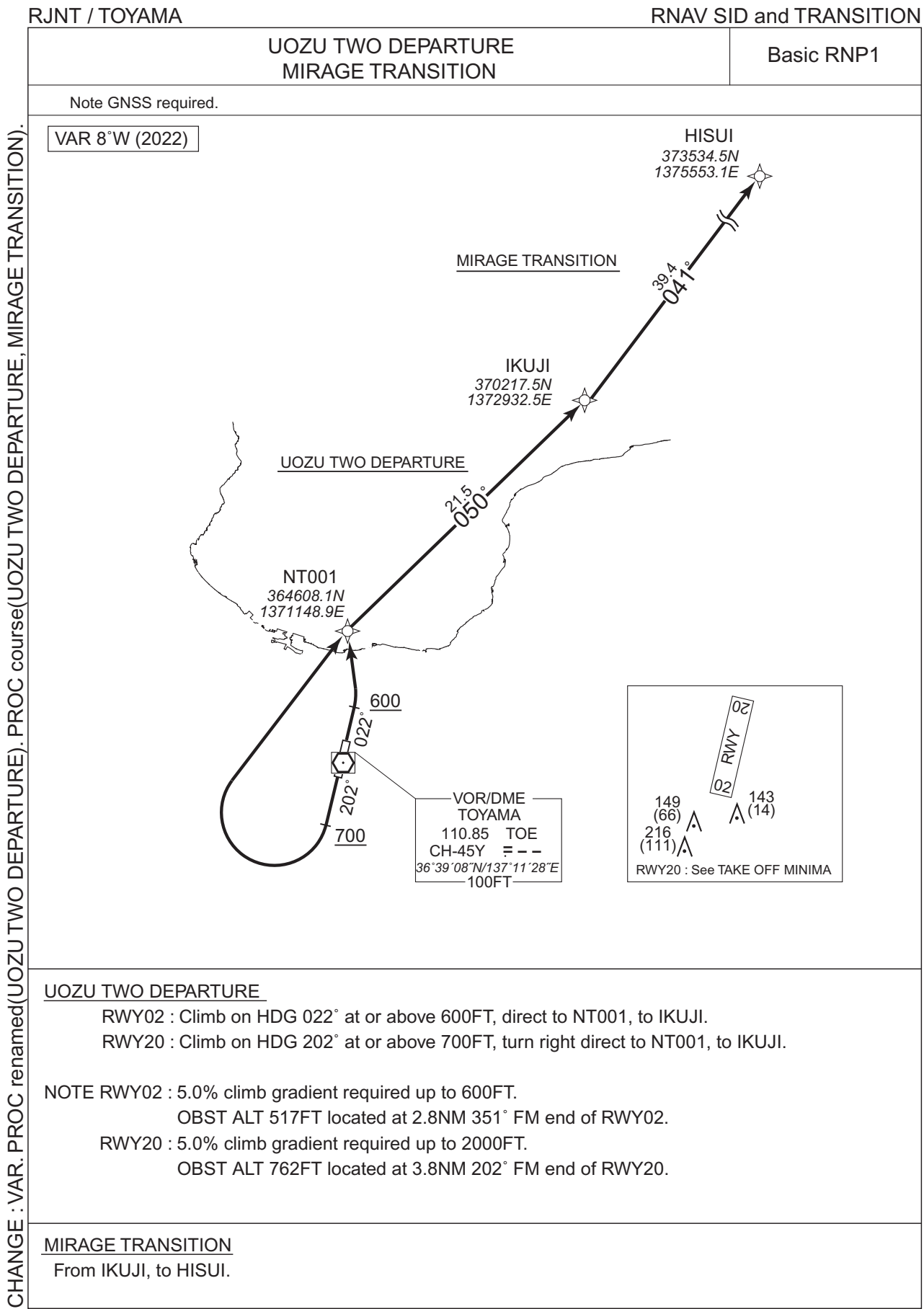   OBST ALT 762FT located at 3.8NM 202˚ FM end of RWY20.

 HISUI TRANSITION
   From over IKUJI, climb via TOE R040 to HISUI.

HISUI
D66.7 TOE

HISUI TRANSITION

040˚

IKUJI
D27.3 TOE

IKUJI FIVE DEPARTURE

040˚

HDG 085˚

D7.0 TOE

TOE R010
010˚

HDG 055˚

TOE R040

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36˚39´08˝N/137˚11´28˝E
100FT

700

149
(66)

143
(14)

216
(111)

RWY20 : See TAKE OFF MINIMA

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.

URUSI REVERSAL FOUR DEPARTURE

NANAO
D25.0 TOE

190˚

352˚

D14.5 TOE

URUSI
D10.4 TOE

KMC R061

TOE R010

VORTAC
KOMATSU
112.0 KMC
CH-57X
36˚23´47˝N/136˚24´15˝E

HDG 037˚

TOE R352

700

700

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36˚39´08˝N/137˚11´28˝E
100FT

RWY 20

RWY 02

149
(66)

143
(14)

216
(111)

RWY20 : See TAKE OFF MINIMA

STANDARD DEPARTURE CHART -INSTRUMENT

RJNT / TOYAMA
RNAV SID and TRANSITION

| UOZU TWO DEPARTURE MIRAGE TRANSITION | Basic RNP1 |

Note GNSS required.

VAR 8°W (2022)

HISUI
373534.5N
1375553.1E

MIRAGE TRANSITION

39.4
041°

IKUJI
370217.5N
1372932.5E

UOZU TWO DEPARTURE

21.5
050°

NT001
364608.1N
1371148.9E

600
022°

202°

700

VOR/DME
TOYAMA
110.85   TOE
CH-45Y
36°39′08″N/137°11′28″E
100FT

RWY
20
02

149
(66)
216
(111)
143
(14)

RWY20 : See TAKE OFF MINIMA

UOZU TWO DEPARTURE
RWY02 : Climb on HDG 022˚ at or above 600FT, direct to NT001, to IKUJI.
RWY20 : Climb on HDG 202˚ at or above 700FT, turn right direct to NT001, to IKUJI.

NOTE RWY02 : 5.0% climb gradient required up to 600FT.
OBST ALT 517FT located at 2.8NM 351˚ 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.

MIRAGE TRANSITION
From IKUJI, to HISUI.

CHANGE : VAR. PROC renamed(UOZU TWO DEPARTURE). PROC course(UOZU TWO DEPARTURE, MIRAGE TRANSITION).

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	–	–	Basic RNP1
002	DF	NT001	–	–	-8.5	–	–	–	–	–	Basic RNP1
003	TF	IKUJI	–	050 (041.2)	-8.5	21.5	–	–	–	–	Basic 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	–	–	Basic RNP1
002	DF	NT001	–	–	-8.5	–	R	–	–	–	Basic RNP1
003	TF	IKUJI	–	050 (041.2)	-8.5	21.5	–	–	–	–	Basic 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	–	–	–	–	–	Basic RNP1
002	TF	HISUI	–	041 (032.1)	-8.5	39.4	–	–	–	–	Basic RNP1

CHANGE : VAR. PROC renamed(UOZU TWO DEPARTURE). PROC course(UOZU TWO DEPARTURE, MIRAGE TRANSITION).

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.

OHANA
D48.4 TOE

VOR/DME
NOTO
111.45   NTE
CH-51Y
37°17′24″N/136°57′46″E
800FT

201°

D36.0 TOE

OHANA ARRIVAL

D32.0 TOE

MHA 3000

NOBEL
D30.0 TOE

201°

TOYAMA ARRIVAL

D16.4 TOE

352°

MHA 3000
3000

URUSI
D10.4 TOE

MEDIC
D11.4 TOE

TOE R021

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36°39′08″N/137°11′28″E
100FT

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA		RNAV STAR
NANAO ARRIVAL		Basic RNP1

Note GNSS required.

VAR 8°W (2022)

NT050
370646.3N
1370713.0E

NT051
370637.9N
1371447.7E

6.1
100°

5.0
052°

4.7
143°

NANAO
370310.1N
1370252.8E

MAX 250KIAS

NT052
370323.4N
1371858.3E

14.6
353°

13.6
203°

MEDIC
365010.5N
1371447.2E
3000

NANAO ARRIVAL

URUSI
364909.2N
1370753.5E

VOR/DME
TOYAMA
110.85   TOE
CH-45Y
36°39′08″N/137°11′28″E
100FT
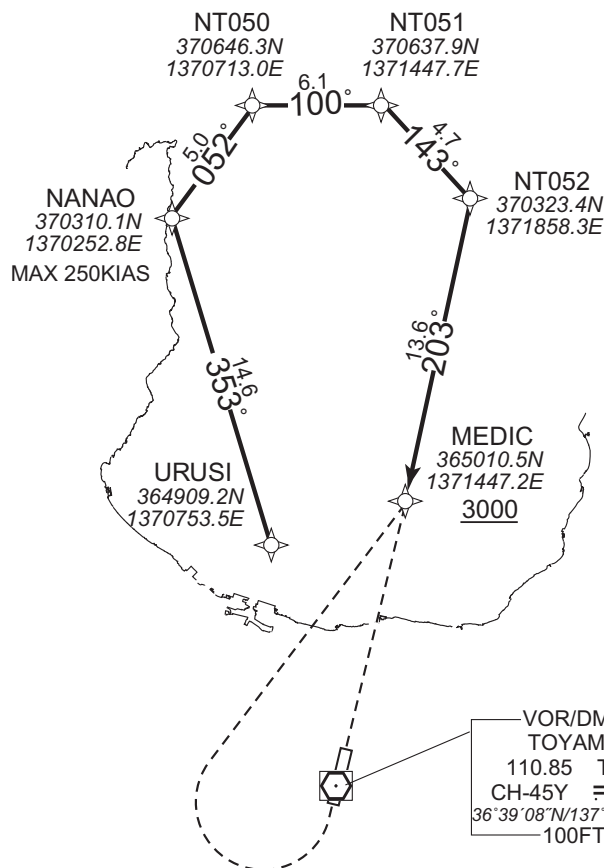
NANAO ARRIVAL

From URUSI, to NANAO, to NT050, to NT051, to NT052, to MEDIC at or above 3000FT.

CHANGE : VAR. PROC course.

Serial Number	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	URUSI	–	–	-8.5	–	–	–	–	–	Basic RNP1
002	TF	NANAO	–	353 (344.1)	-8.5	14.6	–	–	-250	–	Basic RNP1
003	TF	NT050	–	052 (043.8)	-8.5	5.0	–	–	–	–	Basic RNP1
004	TF	NT051	–	100 (091.3)	-8.5	6.1	–	–	–	–	Basic RNP1
005	TF	NT052	–	143 (134.2)	-8.5	4.7	–	–	–	–	Basic RNP1
006	TF	MEDIC	–	203 (194.2)	-8.5	13.6	–	+3000	–	–	Basic RNP1

STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA		RNAV STAR
	MANYO ARRIVAL	Basic RNP1

Note GNSS required.

VAR 8°W (2022)

NT053
365406.9N
1370820.4E

6.5
136°

MEDIC
365010.5N
1371447.2E
3000

117°
045°

MANYO
364446.1N
1365931.1E
8000

MANYO ARRIVAL

14.3°
062°

OYABE
363618.4N
1364513.0E

VOR/DME
TOYAMA
110.85   TOE
CH-45Y ≡ – –
36°39´08˝N/137°11´28˝E
100FT

MANYO ARRIVAL

From OYABE, to MANYO at or above 8000FT, to NT053, to MEDIC at or above 3000FT.

Serial Number	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	OYABE	–	–	-8.5	–	–	–	–	–	Basic RNP1
002	TF	MANYO	–	062 (053.5)	-8.5	14.3	–	+8000	–	–	Basic RNP1
003	TF	NT053	–	045 (037.0)	-8.5	11.7	–	–	–	–	Basic RNP1
004	TF	MEDIC	–	136 (127.4)	-8.5	6.5	–	+3000	–	–	Basic RNP1

CHANGE : VAR. PROC course.

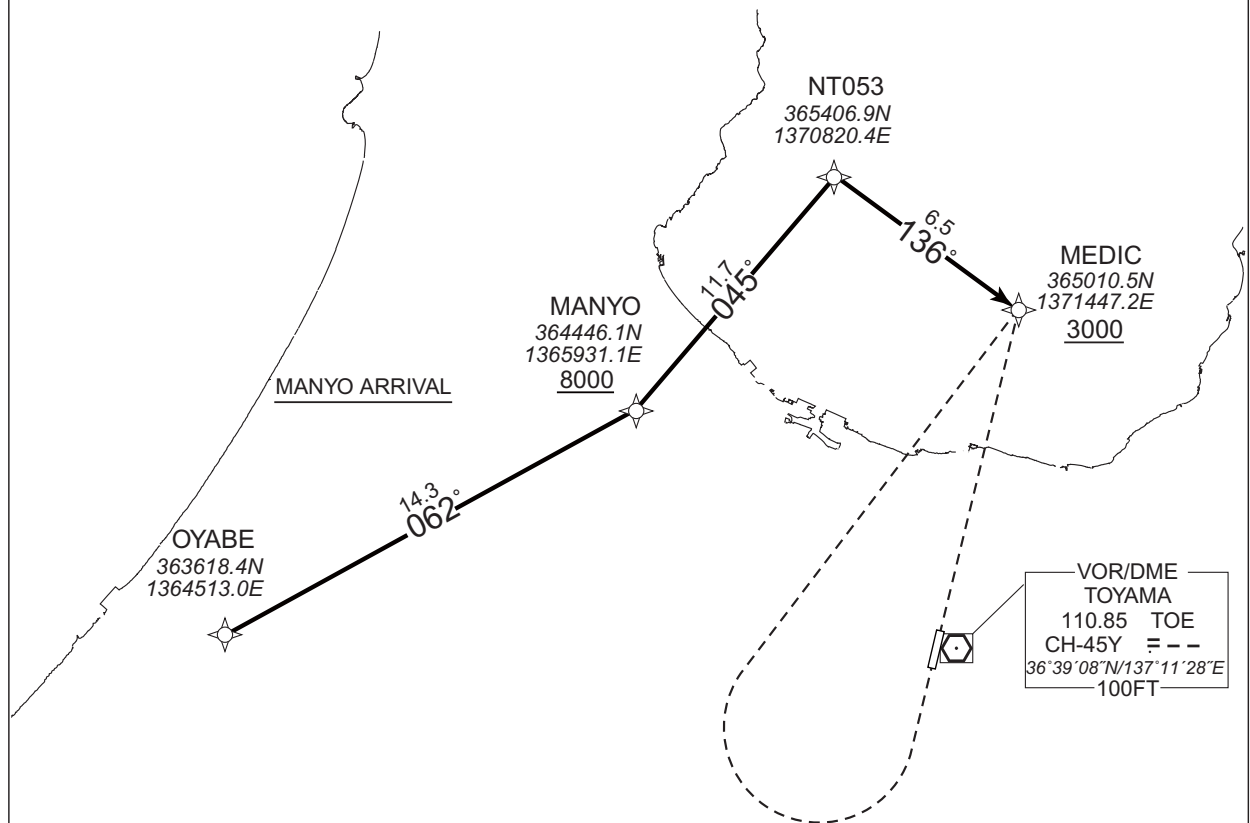STANDARD ARRIVAL CHART -INSTRUMENT

RJNT / TOYAMA		RNAV STAR
GENGE ARRIVAL		Basic RNP1

Note GNSS required.

VAR 8°W (2022)

GENGE
373231.9N
1374600.9E

31.8
229.9°

GENGE ARRIVAL

NOBEL
370817.9N
1372015.0E

18.7
202°

MEDIC
365010.5N
1371447.2E
3000

NOT TO SCALE
1MIN
022°
202°
NOBEL
MHA 3000
MAX 230KIAS

VOR/DME
TOYAMA
110.85   TOE
CH-45Y
36°39´08″N/137°11´28″E
100FT

GENGE ARRIVAL

From GENGE, to NOBEL, to MEDIC at or above 3000FT.

Serial Number	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	GENGE	–	–	-8.5	–	–	–	–	–	Basic RNP1
002	TF	NOBEL	–	229 (220.3)	-8.5	31.8	–	–	–	–	Basic RNP1
003	TF	MEDIC	–	202 (193.6)	-8.5	18.7	–	+3000	–	–	Basic RNP1

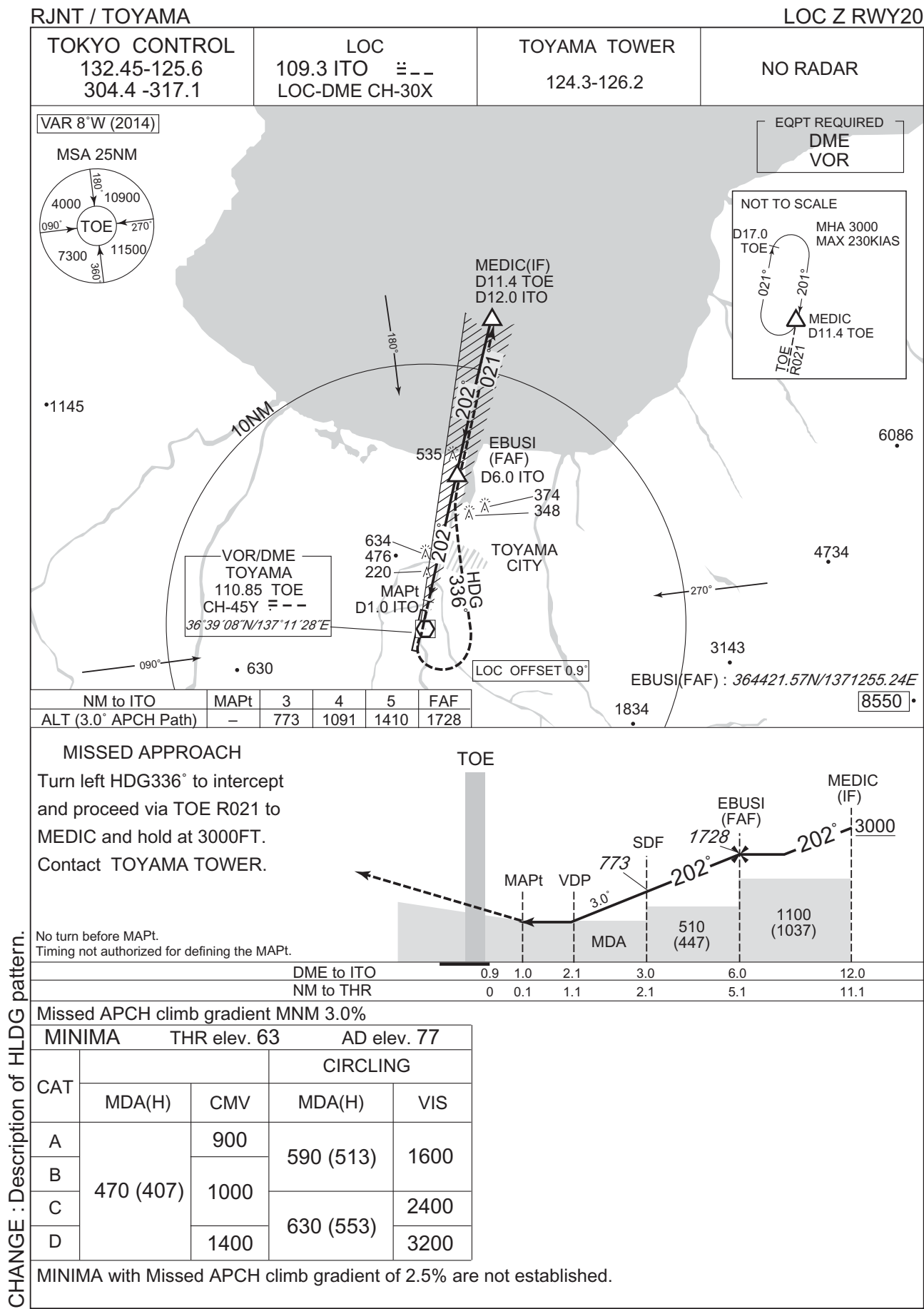| Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	NOBEL	202 (193.6)	-8.5	1.0(-14000)	R	3000	FL140	-230(-14000)	Basic RNP1

CHANGE : VAR. PROC course. RNAV HLDG established(NOBEL). HLDG for NAVAID abolished(NOBEL).

INSTRUMENT APPROACH CHART
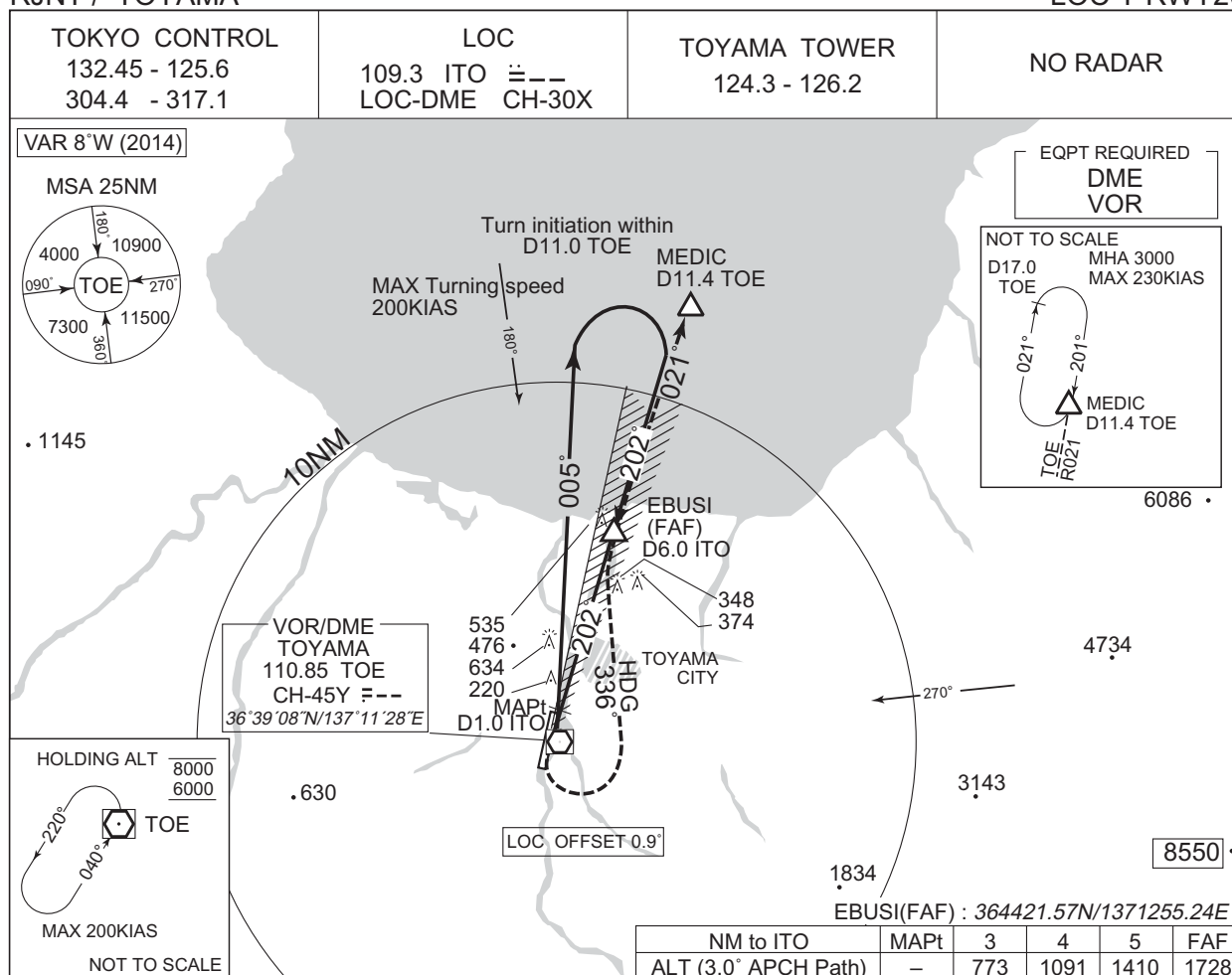
RJNT / TOYAMA   LOC Z RWY20

TOKYO CONTROL 132.45-125.6 304.4 -317.1	LOC 109.3 ITO ·· — — LOC-DME CH-30X	TOYAMA TOWER 124.3-126.2	NO RADAR

VAR 8°W (2014)

MSA 25NM

```
          180°
    4000  /  10900
090° →  TOE  ← 270°
    7300  \  11500
          360°
```

EQPT REQUIRED
DME
VOR

NOT TO SCALE

MHA 3000
MAX 230KIAS
D17.0 TOE
021°   201°
MEDIC D11.4 TOE
TOE R021

MEDIC(IF)
D11.4 TOE
D12.0 ITO

•1145

6086

535

EBUSI (FAF)
D6.0 ITO

374
348

634
476
220

202°

HDG 336°

TOYAMA CITY

MAPt
D1.0 ITO

VOR/DME
TOYAMA
110.85 TOE
CH-45Y ·· — —
36°39'08"N/137°11'28"E

090°

• 630

270°

4734

3143

1834

LOC OFFSET 0.9°

EBUSI(FAF) : 364421.57N/1371255.24E

8550 •

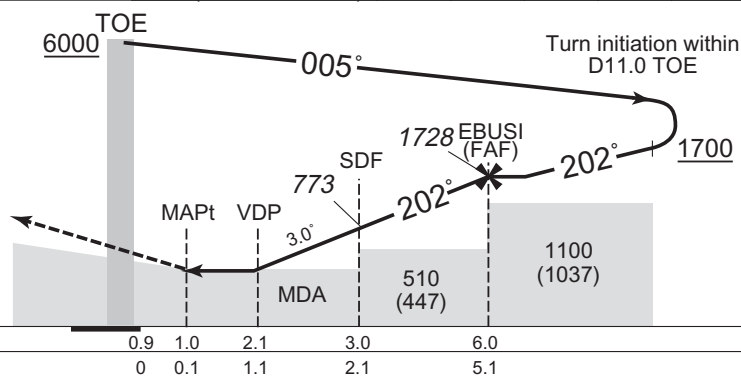| NM to ITO	MAPt	3	4	5	FAF
ALT (3.0° APCH Path)	–	773	1091	1410	1728

MISSED APPROACH

Turn left HDG336° to intercept
and proceed via TOE R021 to
MEDIC and hold at 3000FT.
Contact TOYAMA TOWER.

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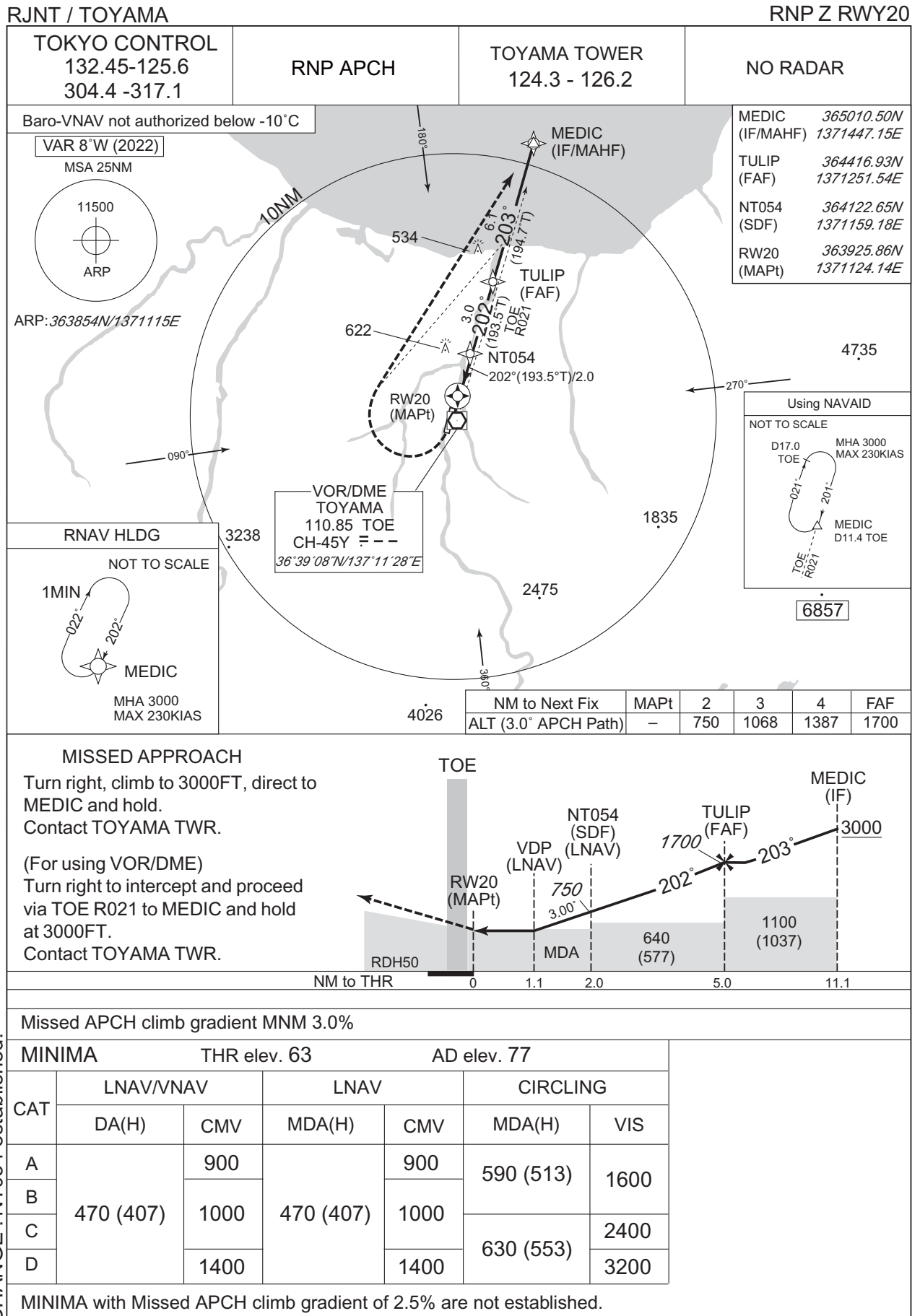Timing not authorized for defining the MAPt.

TOE

MEDIC (IF)

EBUSI (FAF) 1728
SDF
202° 3000
202°

MAPt VDP
773
3.0°

MDA

510 (447)

1100 (1037)

DME to ITO	0.9	1.0	2.1	3.0	6.0	12.0
NM to THR	0	0.1	1.1	2.1	5.1	11.1

Missed APCH climb gradient MNM 3.0%

MINIMA   THR elev. 63   AD elev. 77

CAT	MDA(H)	CMV	CIRCLING MDA(H)	VIS
A	470 (407)	900	590 (513)	1600
B	470 (407)	1000	590 (513)	1600
C	470 (407)	1000	630 (553)	2400
D	470 (407)	1400	630 (553)	3200

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

CHANGE : Description of HLDG pattern.

INSTRUMENT APPROACH CHART
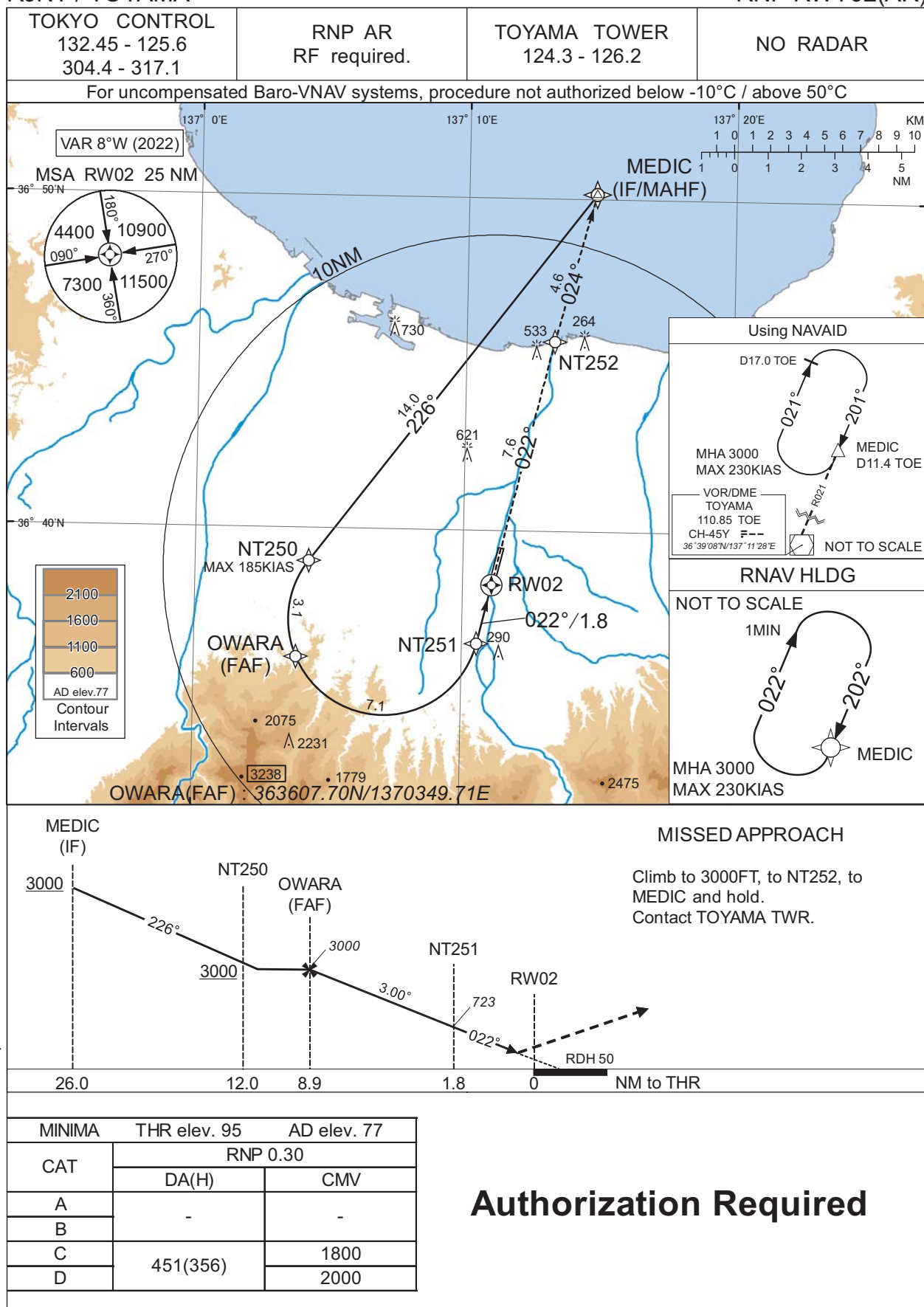
RJNT / TOYAMA

LOC Y RWY20

TOKYO CONTROL 132.45 - 125.6 304.4 - 317.1	LOC 109.3 ITO ·–·· ––– LOC-DME CH-30X	TOYAMA TOWER 124.3 - 126.2	NO RADAR

VAR 8°W (2014)

MSA 25NM

4000 10900
180°
TOE
090°   270°
7300 11500
360°

· 1145

Turn initiation within D11.0 TOE

MEDIC D11.4 TOE

MAX Turning speed 200KIAS

180°

005° 202° 021°

EBUSI (FAF) D6.0 ITO

EQPT REQUIRED
DME
VOR

NOT TO SCALE

D17.0 TOE   MHA 3000 MAX 230KIAS

021° 201°

MEDIC D11.4 TOE

TOE R021

6086 ·

10NM

535
476 ·
634
220

348
374

TOYAMA CITY

VOR/DME TOYAMA 110.85 TOE CH-45Y ·–·· –––
36°39'08"N/137°11'28"E

MAPt D1.0 ITO

202° HDG 336°

4734 ·

270°

HOLDING ALT 8000 / 6000

220° TOE 040°

· 630

LOC OFFSET 0.9°

3143 ·

1834 ·

8550 ·

MAX 200KIAS

NOT TO SCALE

EBUSI(FAF) : 364421.57N/1371255.24E

NM to ITO	MAPt	3	4	5	FAF
ALT (3.0° APCH Path)	–	773	1091	1410	1728

MISSED APPROACH
Turn left HDG336° to intercept and proceed via TOE R021 to MEDIC and hold at 3000FT. Contact TOYAMA TOWER.

TOE
6000

005°

Turn initiation within D11.0 TOE

1728 EBUSI (FAF)

SDF

202° 202° 1700

773

MAPt VDP

3.0°

MDA

510 (447)

1100 (1037)

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

DME to ITO	0.9	1.0	2.1	3.0	6.0
NM to THR	0	0.1	1.1	2.1	5.1

Missed APCH climb gradient MNM 3.0%

MINIMA   THR elev. 63   AD elev. 77

CAT	MDA(H)	CMV	CIRCLING MDA(H)	CIRCLING VIS
A	470 (407)	900	590 (513)	1600
B	470 (407)	1000	590 (513)	1600
C	470 (407)	1000	630 (553)	2400
D	470 (407)	1400	630 (553)	3200

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

CHANGE : Description of HLDG pattern.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNP Z RWY20

TOKYO CONTROL 132.45-125.6 304.4 -317.1	RNP APCH	TOYAMA TOWER 124.3 - 126.2	NO RADAR

Baro-VNAV not authorized below -10°C

VAR 8°W (2022)

MSA 25NM

11500

ARP

ARP: 363854N/1371115E

MEDIC (IF/MAHF)	365010.50N 1371447.15E
TULIP (FAF)	364416.93N 1371251.54E
NT054 (SDF)	364122.65N 1371159.18E
RW20 (MAPt)	363925.86N 1371124.14E

10NM

180°

MEDIC (IF/MAHF)

534

6.7 NM

203°
(194.7°T)

TULIP (FAF)

622

3.0
202°
(193.5°T)

TOE R021

NT054
202°(193.5°T)/2.0

RW20 (MAPt)

090°

VOR/DME TOYAMA 110.85 TOE CH-45Y
36°39'08"N/137°11'28"E

4735

270°

Using NAVAID

NOT TO SCALE

D17.0 TOE   MHA 3000 MAX 230KIAS

021°   201°

MEDIC D11.4 TOE

TOE R021

6857

RNAV HLDG

NOT TO SCALE

1MIN

022° 202°

MEDIC

MHA 3000 MAX 230KIAS

3238

1835

2475

4026

360°

NM to Next Fix	MAPt	2	3	4	FAF
ALT (3.0° APCH Path)	–	750	1068	1387	1700

MISSED APPROACH

Turn right, climb to 3000FT, direct to MEDIC and hold.
Contact TOYAMA TWR.

(For using VOR/DME)
Turn right to intercept and proceed via TOE R021 to MEDIC and hold at 3000FT.
Contact TOYAMA TWR.

TOE

MEDIC (IF)
3000

NT054 (SDF) (LNAV)

TULIP (FAF)

1700

203°

VDP (LNAV)

202°

RW20 (MAPt)

750

3.00°

640 (577)

1100 (1037)

RDH50

MDA

NM to THR	0	1.1	2.0	5.0	11.1

Missed APCH climb gradient MNM 3.0%

MINIMA	THR elev. 63		AD elev. 77			
	LNAV/VNAV		LNAV		CIRCLING	
CAT	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	470 (407)	900	470 (407)	900	590 (513)	1600
B		1000		1000		
C					630 (553)	2400
D		1400		1400		3200

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

CHANGE : NT054 established.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNP RWY02(AR)

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

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 50°C

VAR 8°W (2022)

MSA RW02 25 NM

MEDIC (IF/MAHF)

Using NAVAID

D17.0 TOE

021° / 201°

MHA 3000
MAX 230KIAS

MEDIC
D11.4 TOE

VOR/DME
TOYAMA
110.85 TOE
CH-45Y
36°39'08"N/137°11'28"E

NOT TO SCALE

RNAV HLDG

NOT TO SCALE

1MIN

022° / 202°

MHA 3000
MAX 230KIAS

MEDIC

NT252

14.0 226°

7.6 022°

4.6 024°

RW02

022°/1.8

NT250
MAX 185KIAS

3.1

OWARA
(FAF)

NT251

290

7.1

2075

2231

3238

1779

2475

AD elev.77

Contour Intervals

2100 1600 1100 600

OWARA(FAF) : *363607.70N/1370349.71E*

MISSED APPROACH

MEDIC (IF)

3000

226°

NT250

3000

OWARA (FAF)

3000

3.00°

NT251

723

022°

RW02

RDH 50

022°

Climb to 3000FT, to NT252, to MEDIC and hold.
Contact TOYAMA TWR.

NM to THR

| 26.0 | 12.0 | 8.9 | 1.8 | 0 |

Requirement for RNP.

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

CHANGE : PROC renamed.

Authorization Required

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*		

CHANGE : PROC renamed.

INSTRUMENT APPROACH CHART

RJNT / TOYAMA

RNP Y RWY20(AR)

TOKYO CONTROL 132.45 - 125.6 304.4 - 317.1	RNP AR	TOYAMA TOWER 124.3 - 126.2	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -10°C / above 50°C

VAR 8°W (2022)

MSA RW20 25 NM

Using NAVAID

D17.0 TOE
021°
201°
MHA 3000
MAX 230KIAS
MEDIC D11.4 TOE
VOR/DME TOYAMA 110.85 TOE CH-45Y
36°39'08"N/137°11'28"E
NOT TO SCALE

RNAV HLDG
NOT TO SCALE
1MIN
022°
202°
MHA 3000
MAX 230KIAS
MEDIC

MEDIC (IF/MAHF)

10NM

6.1
203°

TULIP (FAF)

5.0
202°

RW20

202°

500

TULIP(FAF) :364416.93N/1371251.54E

Contour Intervals
2100
1600
1100
600
AD elev.77

MISSED APPROACH

From RW20 on track 202°, at or above 500FT turn right, direct to MEDIC and hold at 3000FT.
Contact TOYAMA TWR.

MEDIC (IF)
3000

TULIP (FAF)
1700
203°

RW20
3.00°
202°
RDH 50

NM to THR   0   5.0   11.1

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 63	AD elev. 77
CAT	RNP 0.30	
	DA(H)	CMV
A	-	-
B	-	-
C	370(307)	1000
D	370(307)	1400

Authorization Required

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

CHANGE PROC renamed. Requirement for RNP.

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*

CHANGE : PROC renamed.
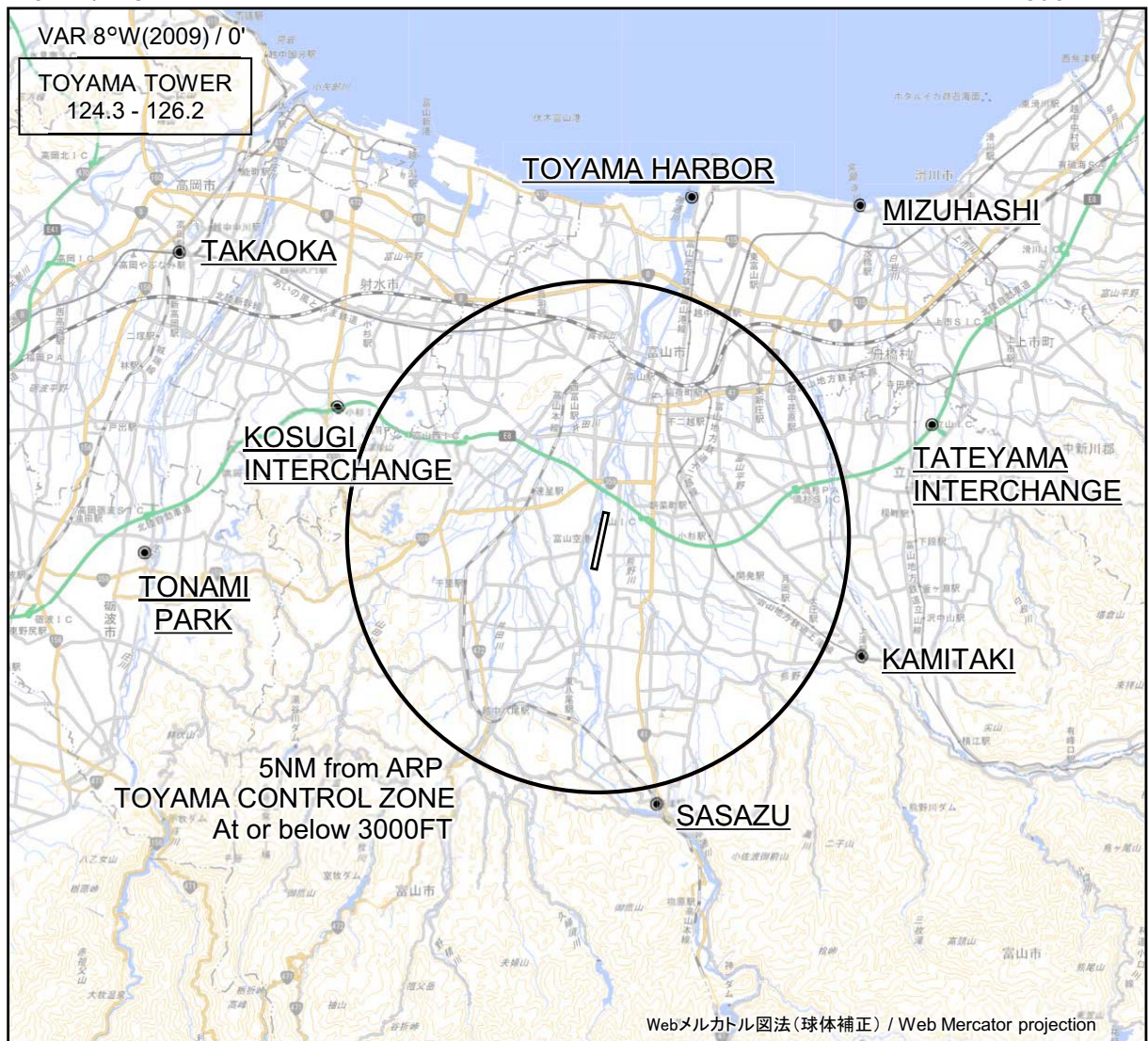
INSTRUMENT APPROACH CHART

RJNT / TOYAMA   VOR A

TOKYO CONTROL 132.45-125.6 304.4 -317.1	TOYAMA VOR/DME 110.85 TOE CH-45Y ▬▬ *36°39′08″N/137°11′28″E*	TOYAMA TOWER 124.3 - 126.2	NO RADAR

VAR 8°W (2013)

MSA 25NM

4000 / 10900 (180°)
090° TOE 270°
7300 / 11500 (360°)

Turn initiation within D11.0 TOE

MAX Turning speed 200KIAS

EQPT REQUIRED
DME

10NM

180°

610°

215°

040°   GANDO(FAF) D5.0 TOE

535
374
348
634
476
220

215°   355° HDG

TOYAMA CITY

MAPt

090°

630

270°

4734

3143

1834

HOLDING ALT 8000 / 6000

220°   040°   TOE

MAX 200KIAS

3238

4026

2474

360°

5574

6857

GANDO(FAF) : *364334.45N/1371419.96E*

MISSED APPROACH
Turn left, climb to 3000FT on HDG355° to intercept and proceed via TOE R040, turn left direct to TOE VOR/DME and hold at 6000FT.
Contact TOYAMA TOWER.

TOE
6000

019°

Turn initiation within D11.0 TOE

SDF

GANDO (FAF)

215°   1700

215°

MAPt   215°

MDA

800 (723)

670 (593)

DME to TOE   2.0   5.0

Missed APCH climb gradient MNM 3.5%

MINIMA		AD elev. 77
	CIRCLING	
CAT	MDA(H)	VIS
A	590 (513)	1600
B		
C	630 (553)	2400
D		3200

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

RJNT / TOYAMA   Visual REP

VAR 8°W(2009) / 0'

TOYAMA TOWER
124.3 - 126.2

TOYAMA HARBOR

MIZUHASHI

TAKAOKA

KOSUGI
INTERCHANGE

TATEYAMA
INTERCHANGE

TONAMI
PARK

KAMITAKI

5NM from ARP
TOYAMA CONTROL ZONE
At or below 3000FT

SASAZU

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

※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

ELEV 77ft

VAR 8°W
2009

•149

★ RAI

SALS

PAPI ANGLE 3.0°
MEHT 19.2m(63ft)
360m fm THR

VOR/DME
TOYAMA
110.85 TOE ·—··
CH-45Y
36°39´08˝N/137°11´28˝E

Asph-Conc
6560x150ft

PAPI ANGLE 3.0°
MEHT 19.2m(63ft)
444m fm THR

TOYAMA
TOWER
124.3-126.2

ABN

CGL

02

20

ELEVATIONS AND
HEIGHTS IN FEET
MEAN SEA LEVEL

•573
•543

SCALE

100m

RJNT / TOYAMA　　　　　　　　　　　　　　Minimum Vectoring Altitude CHART

30NM

6000

370106N
1373627E

12000

363547N
1374820E

362751N
1363637E

11000

13000

360913N
1370526E

CENTER : *363854N/1371115E* (ARP)