VTUQ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTUQ - NAKHON RATCHASIMA / NAKHON RATCHASIMA AIRPORT

VTUQ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	145658.19N 1021845.86E Centre of RWY 1050 M from THR RWY06
2	Direction and distance from (city)	26 KM N
3	Elevation/Reference temperature	765 FT/41°C
4	Geoid Undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	0.41°W (2016)/0°W
6	AD Administration, address, telephone, telefax, telex, AFS	Director of Nakhon Ratchasima Airport Nakhon Ratchasima Airport Amphoe Chalermprakiat Nakhon Ratchasima Province Thailand Tel: +664 425 5899 +664 425 9534 +664 425 9686-8 Fax: +664 425 9689 AFS: VTUQYDYX
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Operator: Department of Airports

VTUQ AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	2300-1100
2	Customs and immigration	On request
3	Health and sanitation	On request
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	2300-1100
6	MET Briefing Office	2300-1100
7	ATS	2300-1100
8	Fuelling	NIL
9	Handling	NIL
10	Security	NIL
11	De-icing	NIL
12	Remarks	ATS Reporting Office (ARO): Located at Ubon Ratchathani Air Traffic Control Centre (1st floor of tower building) Tel: +664 525 6407, +668 9488 2157 Fax: +664 524 0798 Ext. 7874

VTUQ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel/oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VTUQ AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city
2	Restaurants	In the city
3	Transportation	Limousine
4	Medical facilities	NIL
5	Bank and Post Office	NIL
6	Tourist Office	NIL
7	Remarks	NIL

VTUQ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Category 6
2	Rescue equipment	Yes
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

VTUQ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	The aerodrome is available all seasons.

VTUQ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	Surface: Concrete Strength: PCN 45/R/C/X/T
2	Taxiway width, surface and strength	Width: 23 M Surface: Concrete and asphalt Strength PCN 42/F/C/X/T
3	Altimeter checkpoint location and elevation	NIL
4	VOR checkpoints	NIL
5	INS checkpoints	NIL
6	Remarks	NIL

VTUQ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	NIL
2	RWY and TWY markings and LGT	RWY and TWY: Marked and lighted
3	Stop bars	NIL
4	Remarks	NIL

VTUQ AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling areas and at AD		Remarks
1			2		3
RWY/Area affected	**Obstacle type Elevation Markings/LGT**	**Coordinates**	**Obstacle type Elevation Markings/LGT**	**Coordinates**	
a	**b**	**c**	**a**	**b**	
NIL	NIL	NIL	NIL	NIL	NIL

VTUQ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Aeronautical Meteorological Station-Nakhon Ratchasima, Lower Northeastern Meteorological Center, Thai Meteorological Department (TMD)
2	Hours of service MET Office outside hours	2200-1400 NIL
3	Office responsible for TAF preparation Periods of validity	Supply TAF from Lower Northeastern Meteorological Center 24 HR
4	Type of landing forecast Interval of issuance	TREND 1 HR
5	Briefing/consultation provided	Personal Consultation Tel: +664 425 8532
6	Flight documentation Language(s) used	NIL
7	Charts and other information available for briefing or consultation	S, U85, Daily Weather Forecast, satellite and radar images
8	Supplementary equipment available for providing information	Automated Weather Observation System (AWOS)
9	ATS units provided with information	Nakhon Ratchasima TWR
10	Additional information (limitation of service, etc.)	NIL

VTUQ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
06	062.42°	2100x45	PCN 42/F/C/X/T Concrete and asphalt	145641.79N 1021815.01E	THR 765 FT TDZ 765 FT
24	242.42°	2100x45	PCN 42/F/C/X/T Concrete and asphalt	145714.58N 1021916.70E	THR 740 FT TDZ 748 FT

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
-0.4%	60x60	NIL	2340x300	NIL	NIL
+0.4%	60x60	NIL	2340x300	NIL	NIL

VTUQ AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
06	2100	2100	2160	2100	NIL
24	2100	2100	2160	2100	NIL

VTUQ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
06	CAT I 900 M LIH	Green Green	PAPI LEFT 3° (52.87 FT)	NIL	NIL	2100 M 60 M White FM 1500 M- 2100 M Yellow; LIH	Red NIL	60 M Red	NIL
24	NIL	Green NIL	PAPI LEFT 3° (48.82 FT)	NIL	NIL	2100 M 60 M White FM 1500 M - 2100 M Yellow; LIH	Red NIL	60 M Red	RTIL

VTUQ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: At Tower Building, FLG WG EV 7 SEC. IBN: NIL

2	LDI location and LGT Anemometer location and LGT	LDI: NIL Anemometer: NIL WDI: 1. Wind cone at 350 M from THR 06 off set Left side 80 M, illuminated 2. Wind cone at 350 M from THR 24 Off set Left side 80 M, illuminated 3. Wind cone at 240 M from RCL off set between TWY A and TWY B, illuminated
3	TWY edge and centre line lighting	TWY Edge: All TWY TWY Centre line: NIL
4	Secondary power supply/switch-over time	Secondary power supply to all lighting at the Airfield Lighting (AFL) building. Switch-over time: 15 SEC.
5	Remarks	NIL

VTUQ AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True and MAG BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

VTUQ AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Beginning at 1501.2N 10222.1E then clockwise along 5 NM arc from Ratchasima DVOR/DME (145647.66N 1021840.35E) to 1454.5N 10214.6E then counter clockwise from Khorat Aerodrome Traffic Zone to 1457.1N 10214.4E then direct to the starting point.
2	Vertical limits	2000 FT/AGL
3	Airspace classification	C
4	ATS unit call sign Language(s)	Ratchasima Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTUQ AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Ratchasima Approach	123.6 MHZ 121.5 MHZ [1)]	As AD OPR HR	[1)]Emergency frequency
TWR	Ratchasima Tower	119.8 MHZ 236.6 MHZ 121.5 MHZ [1)]	As AD OPR HR	
ATIS	Ratchasima Airport	126.6 MHZ	As AD OPR HR	

VTUQ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB	KR	399 KHZ	H24	145723.28N 1021852.93E		Coverage 50 NM clockwise data refer from commissioning as follows: – Bearing 271°-160° at altitude 2 000 FT – Bearing 161°-270° at altitude 3 500 FT
DVOR/DME	NKR	110.2 MHZ CH39X	H24	145647.66N 1021840.35E		DVOR/DME restriction due to mountainous terrain surround DVOR/DME station, coverage check does not provide adequate signal to 40 NM at required altitude in various areas as follows: – Radial 271°-110° altitude should not below 3 000 FT – Radial 111°-160° altitude should not below 3 500 FT – Radial 161°-270° altitude should not below 4 500 FT
LOC RWY 06 ILS CAT I	INKR	109.7 MHZ	H24	145719.26N 1021925.51E		LOC: Designated operation coverage 18 NM, ALT 7000 FT AMSL
GP		333.2 MHZ	H24	145643.23N 1021826.07E		GP: 3 DEG, RDH 54 FT
DME	INKR	CH34X (109.7 MHZ)	H24	145717.24N 1021926.61E	732 FT	DME: Paired with LOC Freq.

VTUQ AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VTUQ AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VTUQ AD 2.22 FLIGHT PROCEDURES

1. VFR REPORTING POINTS AND LOCAL PROCEDURES

1.1 Aerodrome traffic circuit

a) Using RWY 24 by entering left traffic circuit only.
b) Using RWY 06 by entering right traffic circuit only.

1.2 Details of VFR entry and exit procedures, see charts.

2. NAKHON RATCHASIMA CORRIDOR (NTC)

In order to facilitate all aircraft to/from Nakhon Ratchasima Airport Temporary Transition Corridor is established within Khorat Control Zone as follow:
Nakhon Ratchasima Transition Corridor (NTC) an area bounded by a line joining the following points: 143746.50N 1013621.56E to 144624.59N 1014902.48E to 145944.02N 1021819.43E to 150243.62N 1024312.81E then along a 35 NM arc clockwise from KRT VOR/DME (145502.35N 1020823.32E) to 145644.78N 1024358.14E to 145345.19N 1021905.45E to 144128.44N 1015235.14E to 143250.36N 1013954.53E then along a 35 NM arc clockwise from KRT VOR/DME (145502.35N 1020823.32E) to the starting point.

Vertical Limit : 3 000 FT / 11 000 FT
Period of Activity : To be notified by ATC
Type of Airspace : Temporary Airspace delegated turning point Nakhon Ratchasima Approach
Class of Airspace : C

Controlling Unit : Nakhon Ratchasima Approach
Frequency : 123.6 MHZ
Remark : NTC may be activated during low traffic period within Khorat Control Zone, Nakhon Ratchasima Approach shall accordingly maintain close co-ordination with Khorat Approach for intended activities within NTC.

3. IFR DEPARTURES OTHER THAN VIA SID

IFR departure procedures described below are determined for the purpose of case when an instrument departure via SID is impossible or undesirable.

4. VISUAL DEPARTURES

Visual departures during take-off and initial climb-out are permitted during the daytime and Visual Meteorological Conditions (VMC). ATC clearance to execute a visual departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute a visual departure

- meteorological conditions in the direction of take-off and the following climb-out shall enable visual reference to terrain up to Minimum Sector Altitude (MSA) or Minimum Flight Altitude (MFA) stated in ATC clearance,
- the pilot shall be responsible for obstacle clearance until such specified altitude,
- the pilot prior to take-off shall agree to execute this procedure,
- the ATC clearance shall be readback,

5. OMNIDIRECTIONAL DEPARTURES

Omnidirectional departures during take-off and initial climb-out are permitted during the day and night. ATC clearance to execute an omnidirectional departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute an omnidirectional departure:

- the pilot shall be maintaining a minimum climb gradient up to specific altitude as published shown as below,
- the pilot shall be responsible for adherence to such obtained ATC clearance,
- the pilot prior to take-off shall agree to execute this procedure,
- The ATC clearance shall be readback,

- Runway 06:

RATCHASIMA OMNI 06 Departure: Required climb gradient 201 ft per NM (3.3%) until 2,800 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 3.3%	(ft/min)	217	251	334	501	668	835	1003

No turn before DER.
After departure climb straight ahead until 1,500 ft (or altitude assigned by ATC between 1,500 ft - 2,500 ft), then comply with ATC clearance issued (or as directed by ATC).

- Runway 24:

RATCHASIMA OMNI 24 Departure: Required climb gradient 201 ft per NM (3.3%) until 2,800 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 3.3%	(ft/min)	217	251	334	501	668	835	1003

No turn before DER.
After departure climb straight ahead until 1,500 ft (or altitude assigned by ATC between 1,500 ft - 2,500 ft), then comply with ATC clearance issued (or as directed by ATC).

VTUQ AD 2.23 ADDITIONAL INFORMATION

NIL

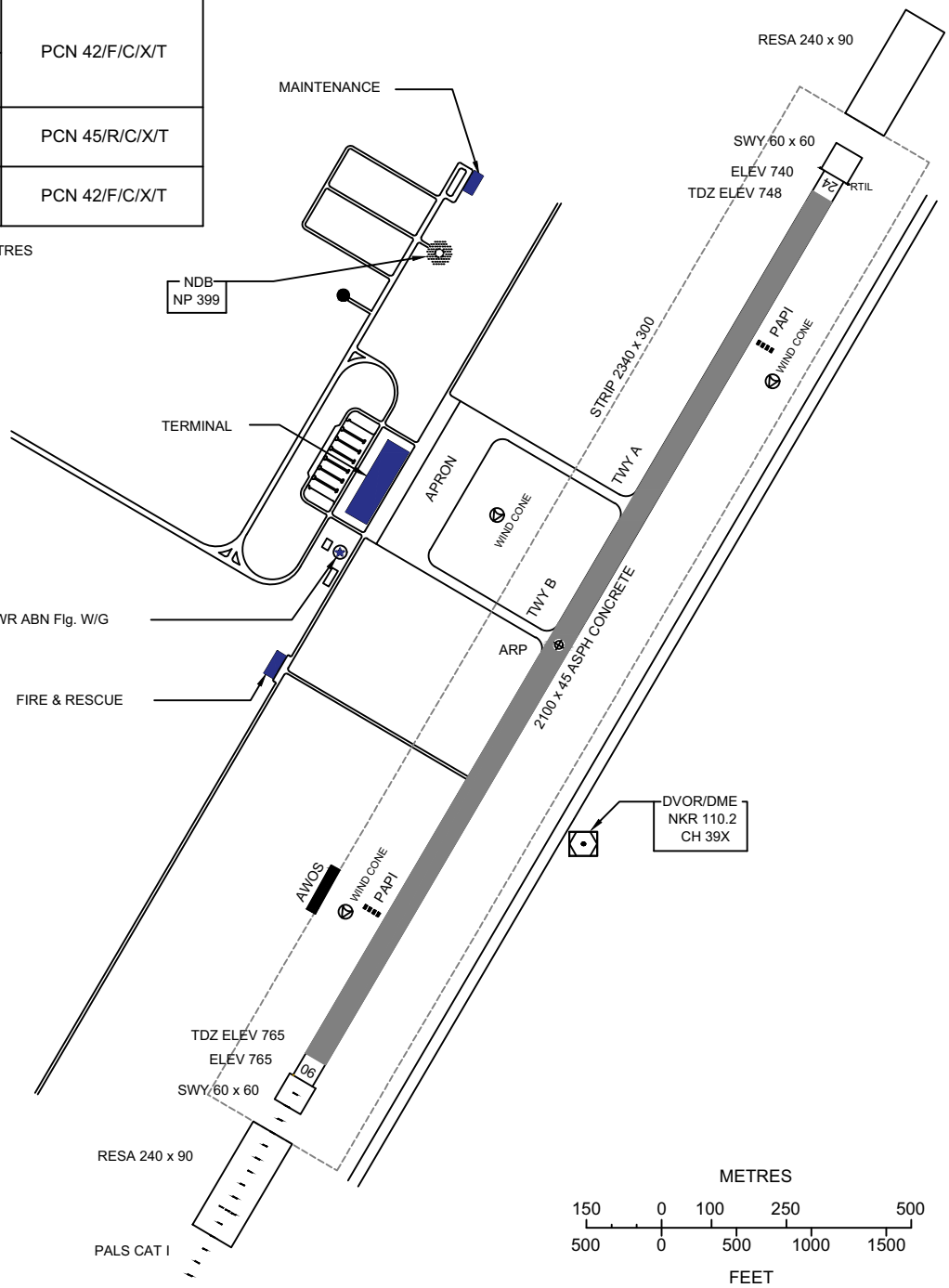
VTUQ AD 2.24 CHARTS RELATED TO AN AERODROME

AERODROME CHART-ICAO 14 56 58 N 102 18 46 E ELEV 765 FT 233 M TWR 119.8 236.6 NAKHON RATCHASIMA / Nakhon Ratchasima

RWY	DIRECTION (TRUE BRG)	THR	BEARING STRENGTH
06	062.42°	14 56 41.79 N 102 18 15.01 E	PCN 42/F/C/X/T
24	242.42°	14 57 14.58 N 102 19 16.70 E	
APRON			PCN 45/R/C/X/T
TWY A and B			PCN 42/F/C/X/T

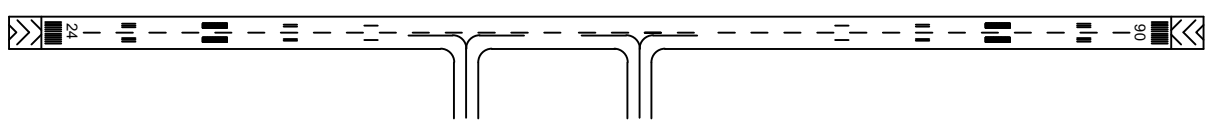
ELEVATIONS IN FEET AND DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC

MAG VAR 0.41°W (2016)
ANNUAL RATE OF CHANGE 0°W

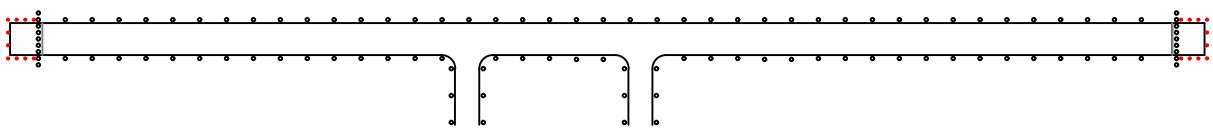


Remark : COORDINATE ARE WGS-84

MARKING AIDS RWY 06/24 AND EXIT TWY



LIGHTING AIDS RWY 06/24 AND EXIT TWY



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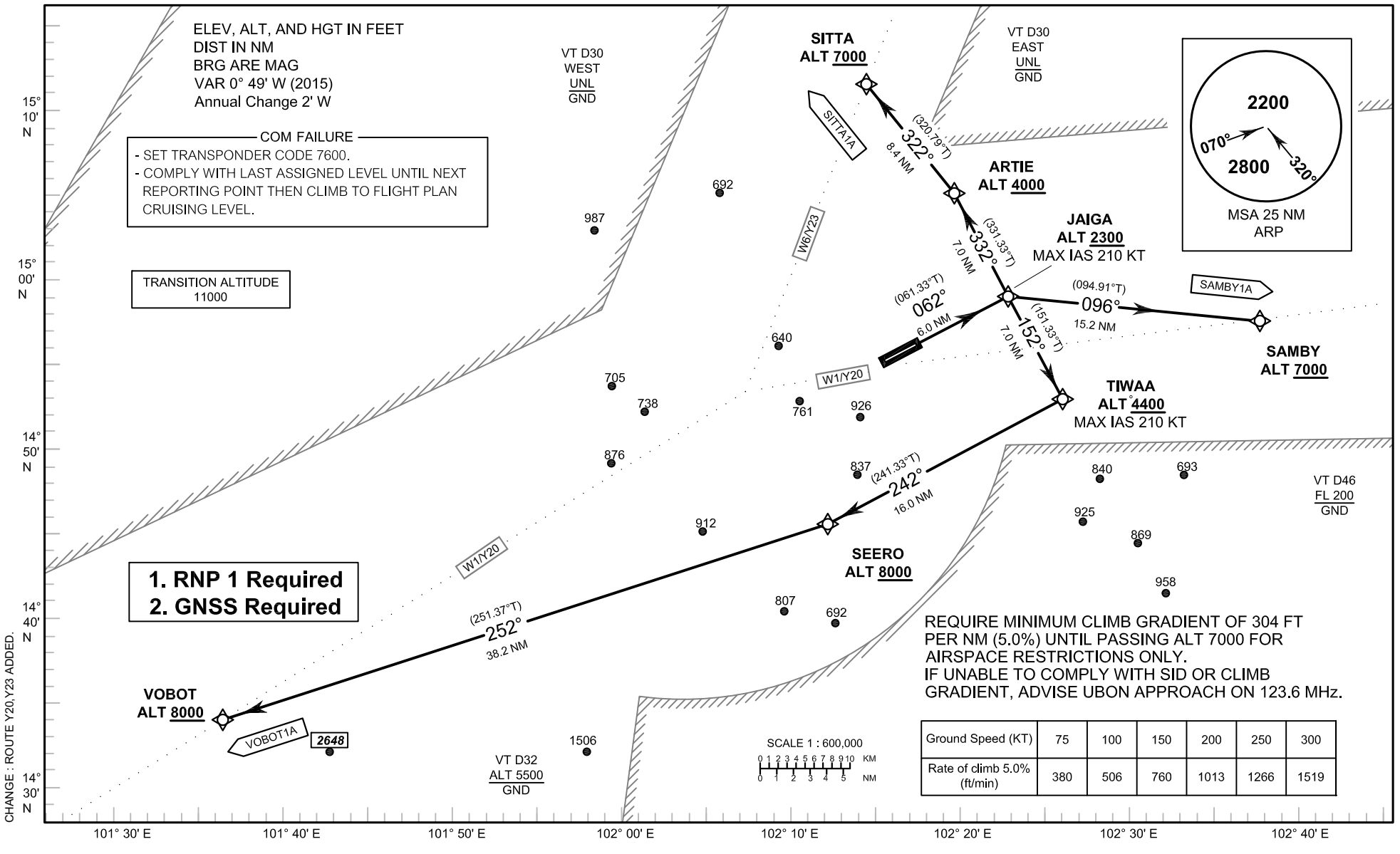
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ) RNAV RWY06

SAMBY1A SITTA1A VOBOT1A



Ground Speed (KT)	75	100	150	200	250	300
Rate of climb 5.0% (ft/min)	380	506	760	1013	1266	1519

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ)
RNAV RWY06
SAMBY1A
SITTA1A VOBOT1A

TABULAR DESCRIPTION

RNAV RWY06

Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/ TCH	Navigation Specification
010	-	DER RWY 06	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	JAIGA	-	062°(061.33°)	+0.8	6.0	R	+2300	- 210	-	RNP 1
030	TF	TIWAA	-	152°(151.33°)	+0.8	7.0	R	+4400	- 210	-	RNP 1
040	TF	SEERO	-	242°(241.33°)	+0.8	16.0	R	+8000	-	-	RNP 1
050	TF	VOBOT	-	252°(251.37°)	+0.8	38.2	-	+8000	-		RNP 1
010	-	DER RWY 06	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	JAIGA	-	062°(061.33°)	+0.8	6.0	R	+2300	- 210	-	RNP 1
030	TF	SAMBY	-	096°(094.91°)	+0.8	15.2	-	+7000	-	-	RNP 1
010	-	DER RWY 06	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	JAIGA	-	062°(061.33°)	+0.8	6.0	L	+2300	- 210	-	RNP 1
030	TF	ARTIE	-	332°(331.33°)	+0.8	7.0	L	+4000	-	-	RNP 1
040	TF	SITTA	-	322°(320.79°)	+0.8	8.4	-	+7000	-	-	RNP 1

WAYPOINT LIST

RNAV RWY06

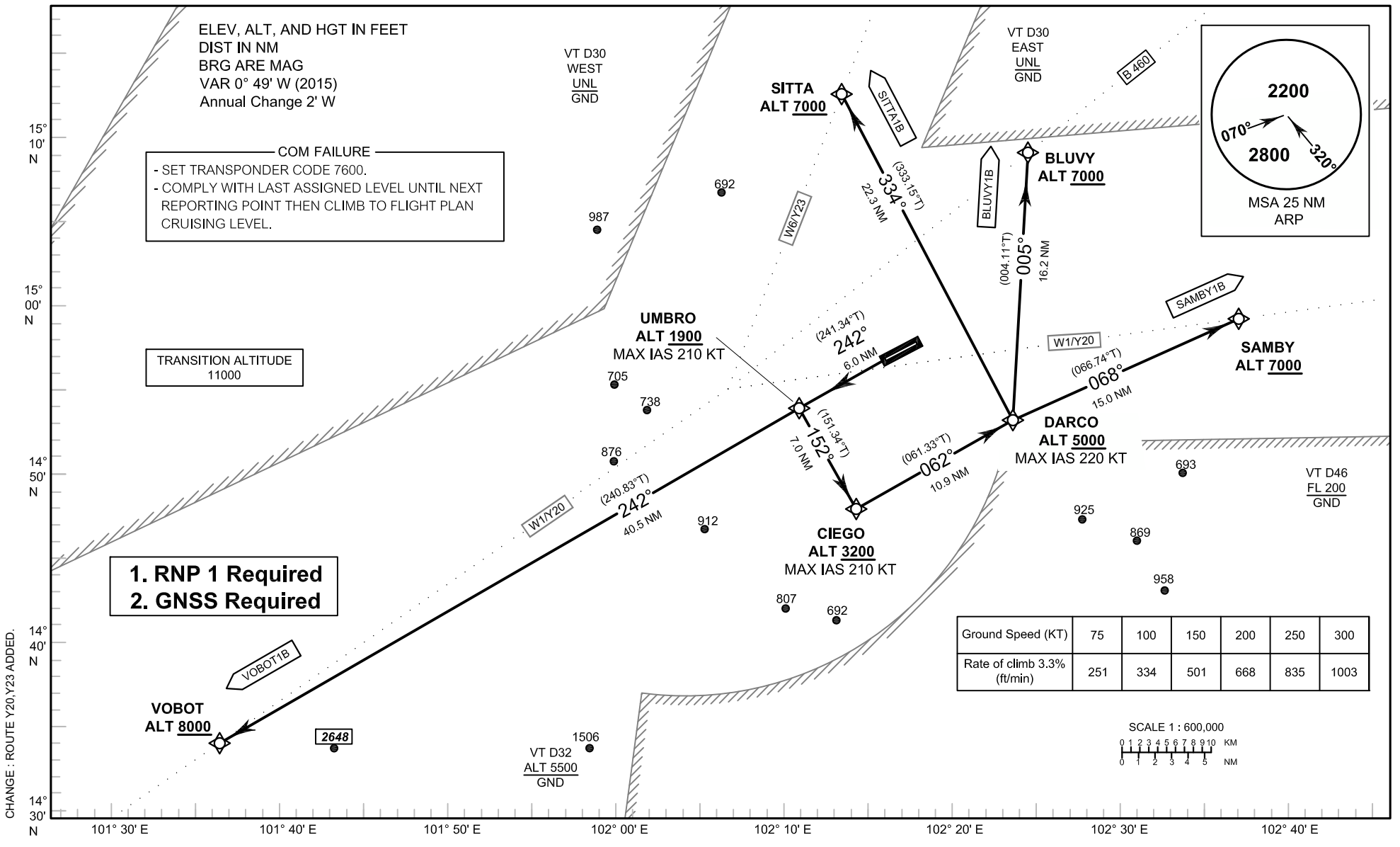
Waypoint Identifier	Coordinates	
DER RWY 06	14 57 14.58 N	102 19 16.70 E
JAIGA	15 00 07.96 N	102 24 43.06 E
TIWAA	14 53 57.84 N	102 28 11.13 E
SEERO	14 46 14.87 N	102 13 41.78 E
VOBOT	14 33 56.57 N	101 36 21.77 E
SAMBY	14 58 49.02 N	102 40 22.21 E
ARTIE	15 06 18.01 N	102 21 14.78 E
SITTA	15 12 50.38 N	102 15 45.08 E

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6

**NAKHON RATCHASIMA/
Nakhon Ratchasima (VTUQ)
RNAV RWY24**

**BLUVY1B SAMBY1B
SITTA1B VOBOT1B**



STANDARD DEPARTURE CHART-
INSTRUMENT (SID) - ICAO

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ)
RNAV RWY24
BLUVY1B SAMBY1B
SITTA1B VOBOT1B

TABULAR DESCRIPTION

RNAV RWY24

Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/ TCH	Navigation Specification
010	-	DER RWY 24	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	UMBRO	-	242°(241.34°)	+0.8	6.0	L	+1900	- 210	-	RNP 1
030	TF	CIEGO	-	152°(151.34°)	+0.8	7.0	L	+3200	- 210	-	RNP 1
040	TF	DARCO	-	062°(061.33°)	+0.8	10.9	L	+5000	- 220	-	RNP 1
050	TF	SITTA	-	334°(333.15°)	+0.8	22.3	-	+7000	-	-	RNP 1
010	-	DER RWY 24	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	UMBRO	-	242°(241.34°)	+0.8	6.0	L	+1900	- 210	-	RNP 1
030	TF	CIEGO	-	152°(151.34°)	+0.8	7.0	L	+3200	- 210	-	RNP 1
040	TF	DARCO	-	062°(061.33°)	+0.8	10.9	R	+5000	- 220	-	RNP 1
050	TF	SAMBY	-	068°(066.74°)	+0.8	15.0	-	+7000	-	-	RNP 1
010	-	DER RWY 24	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	UMBRO	-	242°(241.34°)	+0.8	6.0	L	+1900	- 210	-	RNP 1
030	TF	CIEGO	-	152°(151.34°)	+0.8	7.0	L	+3200	- 210	-	RNP 1
040	TF	DARCO	-	062°(061.33°)	+0.8	10.9	L	+5000	- 220	-	RNP 1
050	TF	BLUVY	-	005°(004.11°)	+0.8	16.2	-	+7000	-	-	RNP 1
010	-	DER RWY 24	-	-	+0.8	-	-	-	-	-	RNP 1
020	CF	UMBRO	-	242°(241.34°)	+0.8	6.0	-	+1900	- 210	-	RNP 1
030	TF	VOBOT	-	242°(240.83°)	+0.8	40.5	-	+8000	-	-	RNP 1

WAYPOINT LIST

RNAV RWY24		
Waypoint Identifier	**Coordinates**	
DER RWY 24	14 56 41.79 N	102 18 15.01 E
UMBRO	14 53 48.31 N	102 12 48.80 E
CIEGO	14 47 38.17 N	102 16 16.72 E
DARCO	14 52 53.07 N	102 26 09.33 E
SITTA	15 12 50.38 N	102 15 45.08 E
SAMBY	14 58 49.02 N	102 40 22.21 E
BLUVY	15 09 06.93 N	102 27 21.37 E
VOBOT	14 33 56.57 N	101 36 21.77 E

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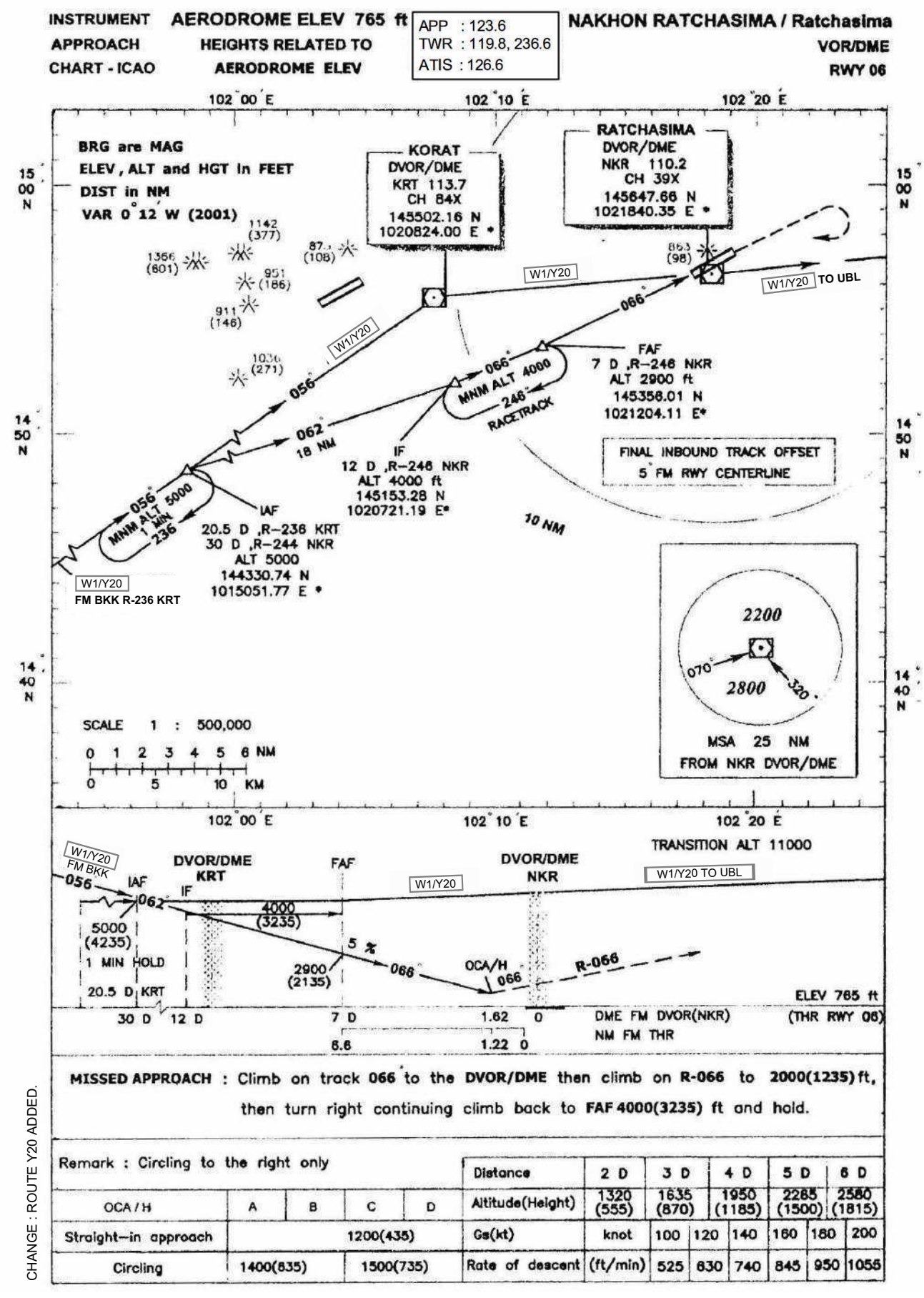
INSTRUMENT APPROACH CHART - ICAO
AERODROME ELEV 765 ft
HEIGHTS RELATED TO AERODROME ELEV
APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6
NAKHON RATCHASIMA / Ratchasima
VOR/DME
RWY 06
102 00 E
102 10 E
102 20 E
15 00 N
14 50 N
14 40 N
BRG are MAG
ELEV, ALT and HGT in FEET
DIST in NM
VAR 0 12 W (2001)
KORAT
DVOR/DME
KRT 113.7
CH 84X
145502.16 N
1020824.00 E *
RATCHASIMA
DVOR/DME
NKR 110.2
CH 39X
145647.66 N
1021840.35 E *
1142 (377)
1366 (601)
951 (186)
911 (146)
1036 (271)
863 (98)
W1/Y20
W1/Y20 TO UBL
056
062
066
18 NM
MNM ALT 4000
246
RACETRACK
FAF
7 D ,R-246 NKR
ALT 2900 ft
145358.01 N
1021204.11 E*
IF
12 D ,R-246 NKR
ALT 4000 ft
145153.28 N
1020721.19 E*
IAF
20.5 D ,R-236 KRT
30 D ,R-244 NKR
ALT 5000
144330.74 N
1015051.77 E *
MNM ALT 5000
1 MIN
236
W1/Y20
FM BKK R-236 KRT
FINAL INBOUND TRACK OFFSET
5 FM RWY CENTERLINE
10 NM
2200
2800
070
320
MSA 25 NM
FROM NKR DVOR/DME
SCALE 1 : 500,000
0 1 2 3 4 5 6 NM
0 5 10 KM
TRANSITION ALT 11000
W1/Y20 FM BKK
DVOR/DME KRT
FAF
DVOR/DME NKR
W1/Y20 TO UBL
IAF
IF
4000 (3235)
5000 (4235)
1 MIN HOLD
20.5 D KRT
5 %
2900 (2135)
OCA/H
R-066
ELEV 765 ft
30 D
12 D
7 D
1.62
0
8.6
1.22 0
DME FM DVOR(NKR)
NM FM THR
(THR RWY 06)
MISSED APPROACH : Climb on track 066 to the DVOR/DME then climb on R-066 to 2000(1235) ft, then turn right continuing climb back to FAF 4000(3235) ft and hold.
Remark : Circling to the right only
OCA / H
A
B
C
D
Straight–in approach
1200(435)
Circling
1400(835)
1500(735)
Distance
2 D
3 D
4 D
5 D
6 D
Altitude(Height)
1320 (555)
1635 (870)
1950 (1185)
2285 (1500)
2580 (1815)
Gs(kt)
knot
100
120
140
160
180
200
Rate of descent
(ft/min)
525
630
740
845
950
1055
CHANGE : ROUTE Y20 ADDED.

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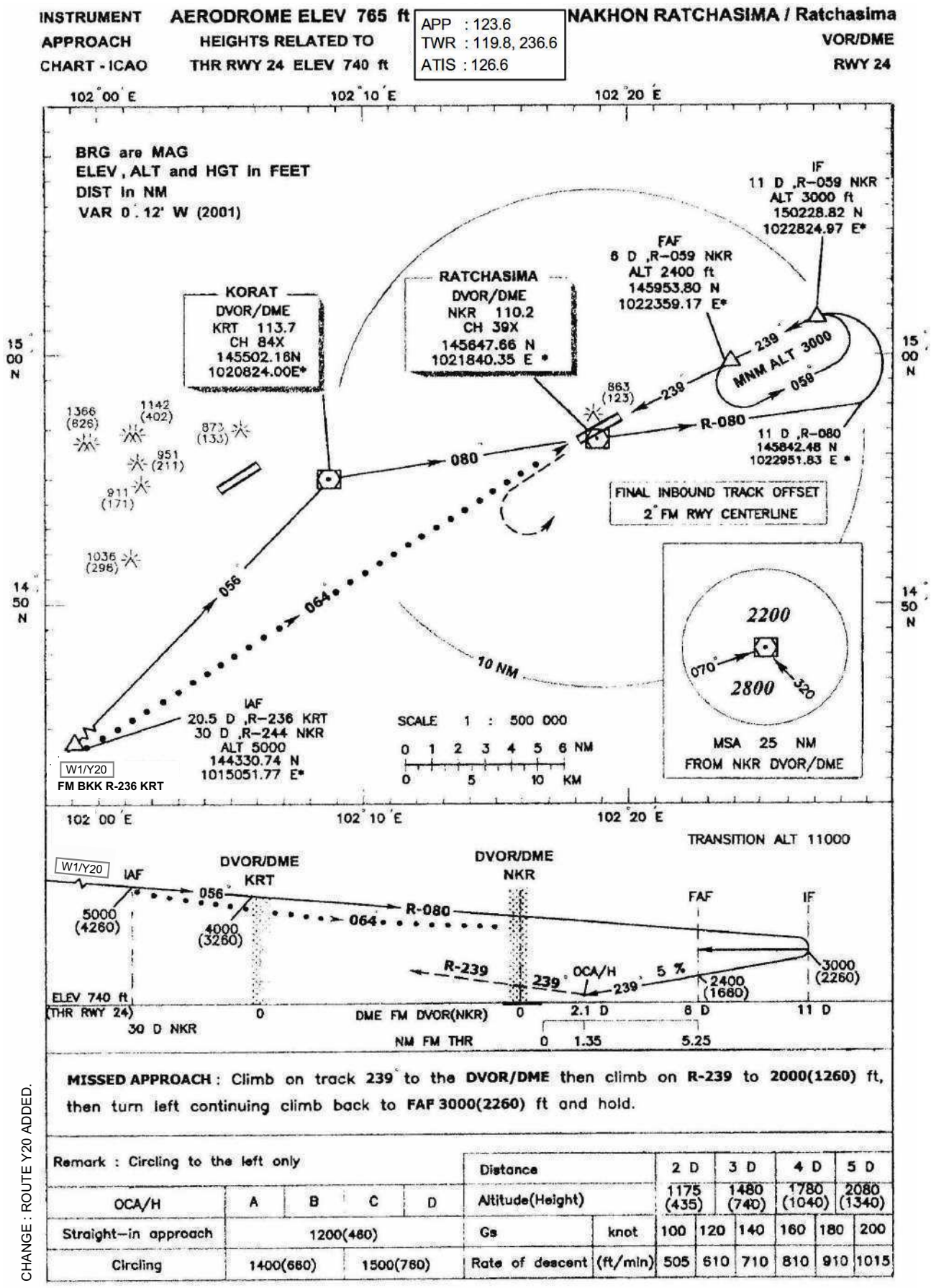

MISSED APPROACH : Climb on track 239° to the **DVOR/DME** then climb on **R-239** to **2000(1260)** ft, then turn left continuing climb back to **FAF 3000(2260)** ft and hold.

Remark : Circling to the left only					Distance		2 D	3 D	4 D	5 D
OCA/H	A	B	C	D	Altitude(Height)		1175 (435)	1480 (740)	1780 (1040)	2080 (1340)
Straight-in approach	1200(460)				Gs	knot	100 120 140	160 180 200		
Circling	1400(660)		1500(760)		Rate of descent	(ft/min)	505 610 710	810 910 1015		

CHANGE : ROUTE Y20 ADDED.

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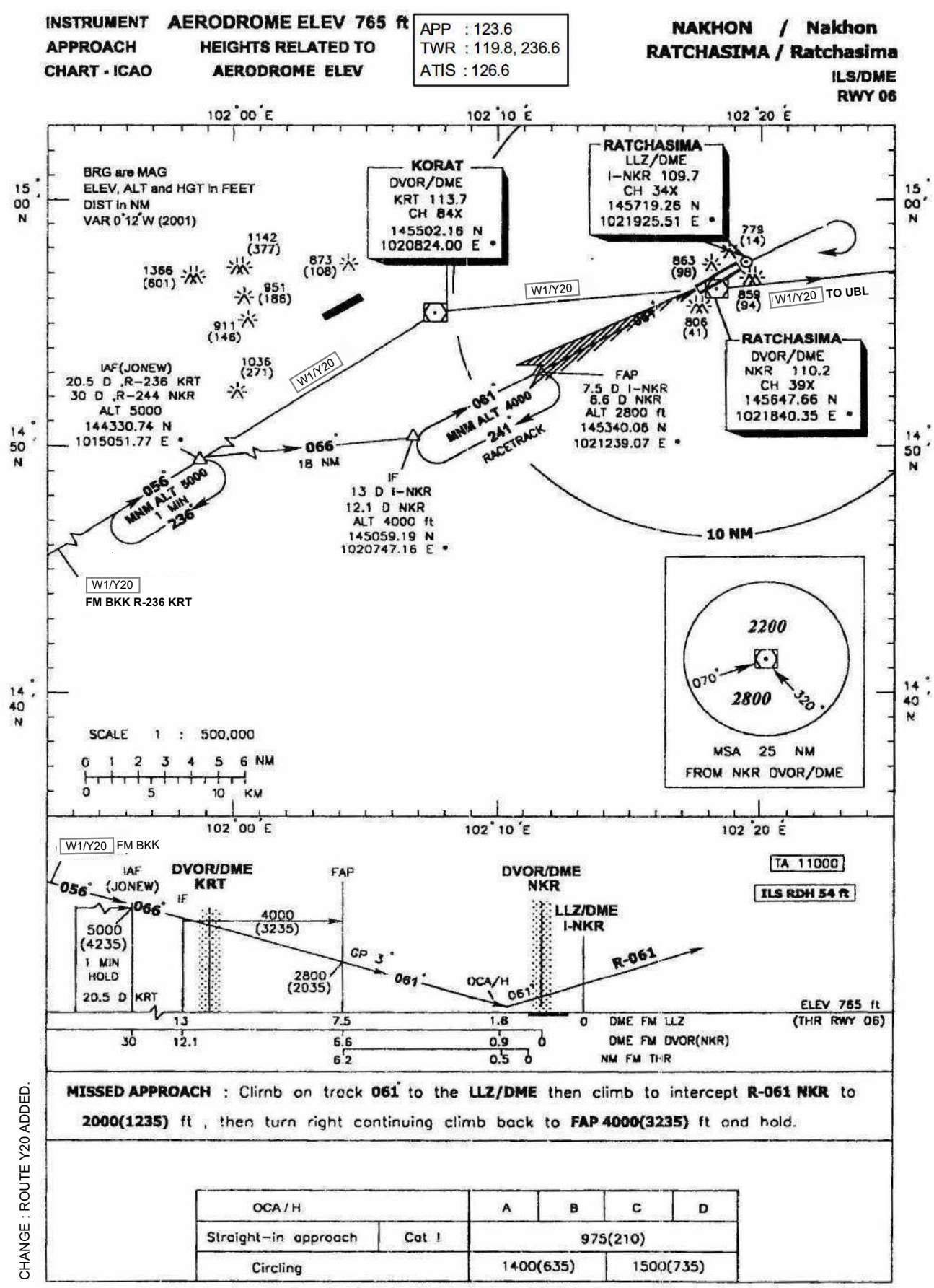
INSTRUMENT APPROACH CHART - ICAO
AERODROME ELEV 765 ft
HEIGHTS RELATED TO AERODROME ELEV
APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6
NAKHON / Nakhon RATCHASIMA / Ratchasima
ILS/DME
RWY 06
102 00 E
102 10 E
102 20 E
15 00 N
14 50 N
14 40 N
BRG are MAG
ELEV, ALT and HGT in FEET
DIST in NM
VAR 0°12'W (2001)
KORAT
DVOR/DME
KRT 113.7
CH 84X
145502.16 N
1020824.00 E
RATCHASIMA
LLZ/DME
I-NKR 109.7
CH 34X
145719.26 N
1021925.51 E
RATCHASIMA
DVOR/DME
NKR 110.2
CH 39X
145647.66 N
1021840.35 E
1142 (377)
1366 (601)
873 (108)
951 (186)
911 (146)
1036 (271)
779 (14)
863 (98)
859 (94)
806 (41)
W1/Y20
TO UBL
IAF(JONEW)
20.5 D ,R-236 KRT
30 D ,R-244 NKR
ALT 5000
144330.74 N
1015051.77 E
066
18 NM
IF
13 D I-NKR
12.1 D NKR
ALT 4000 ft
145059.19 N
1020747.16 E
061
MNM ALT 4000
241
RACETRACK
FAP
7.5 D I-NKR
6.6 D NKR
ALT 2800 ft
145340.06 N
1021239.07 E
056
MNM ALT 5000
1 MIN
236
10 NM
W1/Y20
FM BKK R-236 KRT
2200
070°
320°
2800
MSA 25 NM
FROM NKR DVOR/DME
SCALE 1 : 500,000
0 1 2 3 4 5 6 NM
0 5 10 KM
W1/Y20 FM BKK
IAF (JONEW)
DVOR/DME KRT
IF
FAP
DVOR/DME NKR
LLZ/DME I-NKR
TA 11000
ILS RDH 54 ft
056°
066°
5000 (4235)
1 MIN HOLD
20.5 D KRT
4000 (3235)
GP 3°
2800 (2035)
061°
OCA/H
R-061
ELEV 765 ft
(THR RWY 06)
13
7.5
1.8
0
DME FM LLZ
30
12.1
6.6
6.2
0.9
0.5
0
DME FM DVOR(NKR)
NM FM THR
MISSED APPROACH : Climb on track 061° to the LLZ/DME then climb to intercept R-061 NKR to 2000(1235) ft , then turn right continuing climb back to FAP 4000(3235) ft and hold.
OCA / H
A
B
C
D
Straight-in approach
Cat I
975(210)
Circling
1400(635)
1500(735)
CHANGE : ROUTE Y20 ADDED.

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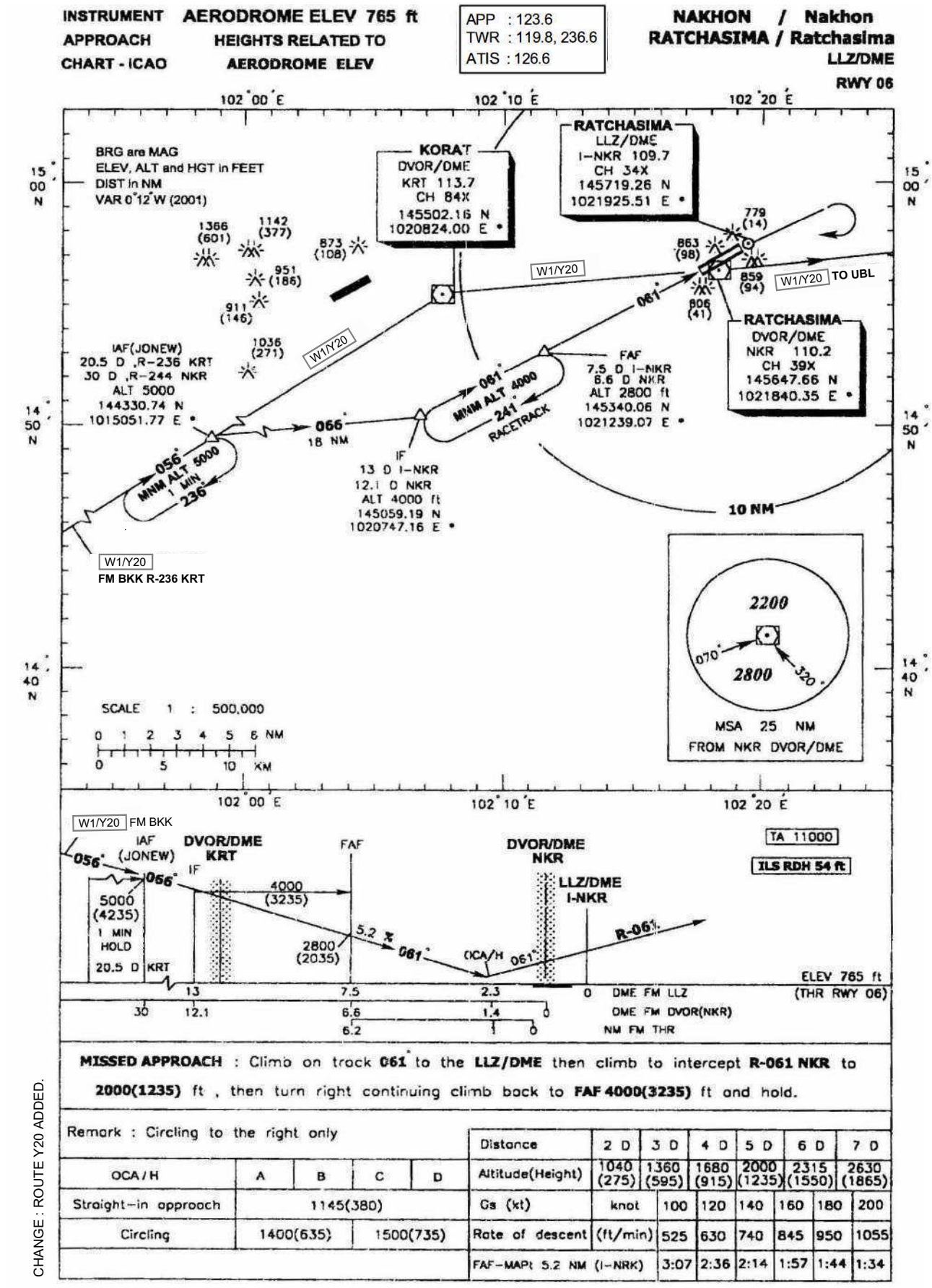
INSTRUMENT APPROACH CHART - ICAO
AERODROME ELEV 765 ft
HEIGHTS RELATED TO AERODROME ELEV
APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6
NAKHON / Nakhon RATCHASIMA / Ratchasima
LLZ/DME
RWY 06
BRG are MAG
ELEV, ALT and HGT in FEET
DIST in NM
VAR 0°12'W (2001)
KORAT
DVOR/DME
KRT 113.7
CH 84X
145502.16 N
1020824.00 E
RATCHASIMA
LLZ/DME
I-NKR 109.7
CH 34X
145719.26 N
1021925.51 E
RATCHASIMA
DVOR/DME
NKR 110.2
CH 39X
145647.66 N
1021840.35 E
IAF(JONEW)
20.5 D ,R-236 KRT
30 D ,R-244 NKR
ALT 5000
144330.74 N
1015051.77 E
IF
13 D I-NKR
12.1 D NKR
ALT 4000 ft
145059.19 N
1020747.16 E
FAF
7.5 D I-NKR
6.6 D NKR
ALT 2800 ft
145340.06 N
1021239.07 E
066
18 NM
056
MNM ALT 5000
1 MIN
236
081
MNM ALT 4000
241
RACETRACK
061
10 NM
W1/Y20
TO UBL
W1/Y20
FM BKK R-236 KRT
1366 (601)
1142 (377)
873 (108)
951 (186)
911 (146)
1036 (271)
779 (14)
863 (98)
859 (94)
806 (41)
2200
070°
320°
2800
MSA 25 NM
FROM NKR DVOR/DME
SCALE 1 : 500,000
0 1 2 3 4 5 6 NM
0 5 10 KM
102°00'E
102°10'E
102°20'E
15°00'N
14°50'N
14°40'N
W1/Y20 FM BKK
IAF (JONEW)
DVOR/DME KRT
IF
FAF
DVOR/DME NKR
LLZ/DME I-NKR
TA 11000
ILS RDH 54 ft
056°
066°
5000 (4235)
1 MIN HOLD
20.5 D KRT
4000 (3235)
2800 (2035)
5.2 NM
061°
OCA/H
R-061°
ELEV 765 ft
(THR RWY 06)
13 7.5 2.3 0 DME FM LLZ
30 12.1 6.6 1.4 0 DME FM DVOR(NKR)
6.2 1 0 NM FM THR
MISSED APPROACH : Climb on track 061° to the LLZ/DME then climb to intercept R-061 NKR to 2000(1235) ft , then turn right continuing climb back to FAF 4000(3235) ft and hold.
Remark : Circling to the right only
OCA / H | A | B | C | D
Straight-in approoch | 1145(380)
Circling | 1400(635) | 1500(735)
Distance | 2 D | 3 D | 4 D | 5 D | 6 D | 7 D
Altitude(Height) | 1040 (275) | 1360 (595) | 1680 (915) | 2000 (1235) | 2315 (1550) | 2630 (1865)
Gs (kt) | knot | 100 | 120 | 140 | 160 | 180 | 200
Rate of descent (ft/min) | 525 | 630 | 740 | 845 | 950 | 1055
FAF-MAPt 5.2 NM (I-NRK) | 3:07 | 2:36 | 2:14 | 1:57 | 1:44 | 1:34
CHANGE : ROUTE Y20 ADDED.

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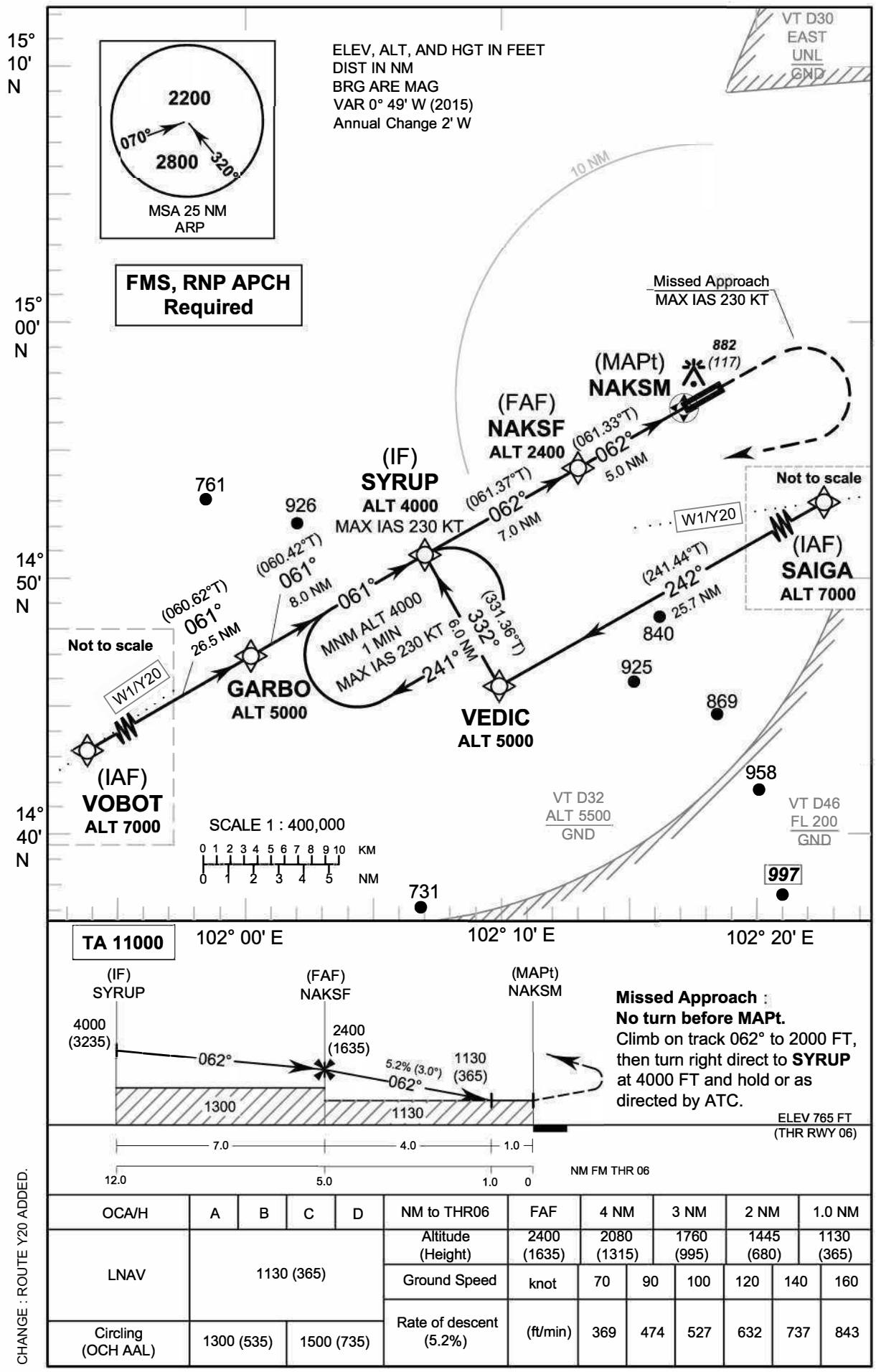
INSTRUMENT APPROACH CHART-ICAO — **AERODROME ELEV 765 FT** HEIGHTS RELATED TO AERODROME ELEV

APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ) RNP RWY06



OCA/H	A	B	C	D	NM to THR06	FAF	4 NM	3 NM	2 NM	1.0 NM
LNAV	1130 (365)				Altitude (Height)	2400 (1635)	2080 (1315)	1760 (995)	1445 (680)	1130 (365)
					Ground Speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1300 (535)		1500 (735)		Rate of descent (5.2%)	(ft/min)	369	474	527	632	737	843

CHANGE : ROUTE Y20 ADDED.

INSTRUMENT APPROACH CHART - ICAO — **AERODROME ELEV 765 FT** — **HEIGHTS RELATED TO AERODROME ELEV** — **NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ)** — **RNP RWY06**

TABULAR DESCRIPTION

RNP RWY06

Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/ TCH	Navigation Specification
010	IF	VOBOT (IAF)	-	-	+0.8	-	-	@7000	-	-	RNP APCH
020	TF	GARBO	-	061°(060.62°)	+0.8	26.5	-	@5000	-	-	RNP APCH
030	TF	SYRUP (IF)	-	061°(060.42°)	+0.8	8.0	-	@4000	- 230	-	RNP APCH
010	IF	SAIGA (IAF)	-	-	+0.8	-	-	@7000	-	-	RNP APCH
020	TF	VEDIC	-	242°(241.44°)	+0.8	25.7	R	@5000	-	-	RNP APCH
030	TF	SYRUP (IF)	-	332°(331.36°)	+0.8	6.0	-	@4000	- 230	-	RNP APCH
010	IF	SYRUP (IF)	-	-	+0.8	-	-	@4000	- 230	-	RNP APCH
020	TF	NAKSF (FAF)	-	062°(061.37°)	+0.8	7.0	-	@2400	-	-	RNP APCH
030	TF	NAKSM (MAPt)	Y	062°(061.33°)	+0.8	5.0	-	@1130	-	-	RNP APCH
040	CA	-	-	062°(061.33°)	+0.8	-	-	+2000	-	-	RNP APCH
050	DF	SYRUP (IF)	-	-	+0.8	-	R	+4000	-	-	RNP APCH
060	HM	SYRUP (IF)	Y	061°(060.42°)	+0.8	1 minute	R	+4000	- 230	-	RNP APCH

WAYPOINT LIST

RNP RWY06

Waypoint Identifier	Coordinates	
VOBOT	14 33 56.57 N	101 36 21.77 E
GARBO	14 46 57.33 N	102 00 11.51 E
SAIGA	14 57 59.51 N	102 33 38.53 E
VEDIC	14 45 37.89 N	102 10 20.60 E
SYRUP	14 50 55.18 N	102 07 22.46 E
NAKSF	14 54 17.23 N	102 13 43.16 E
NAKSM (THR06)	14 56 41.79 N	102 18 15.01 E

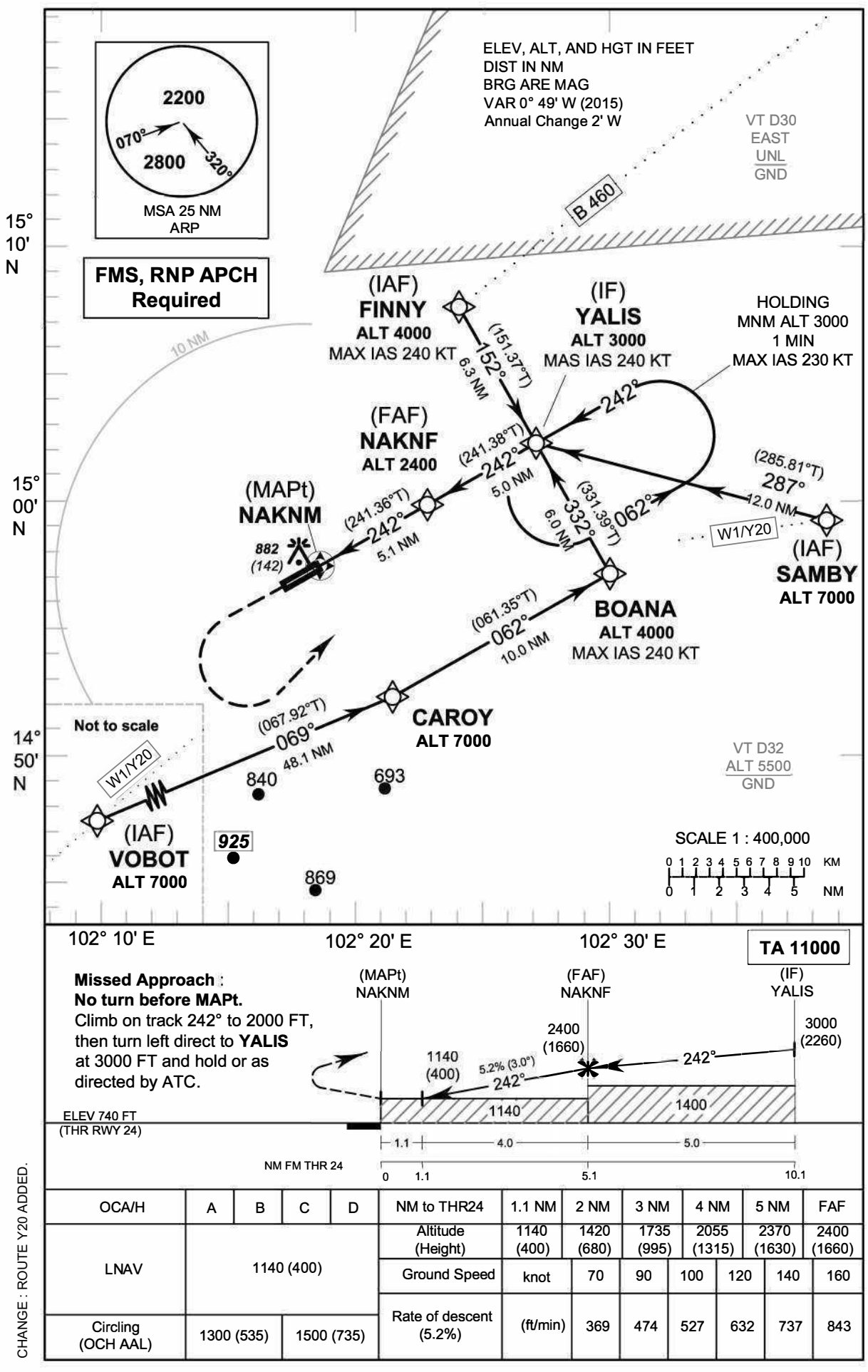
CHANGE: CHART TITLE.

INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 765 FT
HEIGHTS RELATED TO
THR RWY24 - ELEV 740 FT

APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ) RNP RWY24



OCA/H	A	B	C	D
LNAV	1140 (400)			
Circling (OCH AAL)	1300 (535)		1500 (735)	

NM to THR24	1.1 NM	2 NM	3 NM	4 NM	5 NM	FAF
Altitude (Height)	1140 (400)	1420 (680)	1735 (995)	2055 (1315)	2370 (1630)	2400 (1660)
Ground Speed	knot	70	90	100	120	140	160
Rate of descent (5.2%)	(ft/min)	369	474	527	632	737	843

CHANGE : ROUTE Y20 ADDED.

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 765 FT
HEIGHTS RELATED TO
THR RWY24 - ELEV 740 FT

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ)
RNP RWY24

TABULAR DESCRIPTION

RNP RWY24

Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/ TCH	Navigation Specification
010	IF	VOBOT (IAF)	-	-	+0.8	-	-	@7000	-	-	RNP APCH
020	TF	CAROY	-	069°(067.92°)	+0.8	48.1	L	@7000	-	-	RNP APCH
030	TF	BOANA	-	062°(061.35°)	+0.8	10.0	L	@4000	- 240	-	RNP APCH
040	TF	YALIS (IF)	-	332°(331.39°)	+0.8	6.0	-	@3000	- 240	-	RNP APCH
010	IF	FINNY (IAF)	-	-	+0.8	-	-	@4000	- 240	-	RNP APCH
020	TF	YALIS (IF)	-	152°(151.37°)	+0.8	6.3	-	@3000	- 240	-	RNP APCH
010	IF	SAMBY (IAF)	-	-	+0.8	-	-	@7000	-	-	RNP APCH
020	TF	YALIS (IF)	-	287°(285.81°)	+0.8	12.0	-	@3000	- 240	-	RNP APCH
010	IF	YALIS (IF)	-	-	+0.8	-	-	@3000	- 240	-	RNP APCH
020	TF	NAKNF (FAF)	-	242°(241.38°)	+0.8	5.0	-	@2400	-	-	RNP APCH
030	TF	NAKNM (MAPt)	Y	242°(241.36°)	+0.8	5.1	-	@1140	-	-	RNP APCH
040	CA	-	-	242°(241.36°)	+0.8	-	-	+2000	-	-	RNP APCH
050	DF	YALIS (IF)	-		+0.8	-	L	+3000	-	-	RNP APCH
060	HM	YALIS (IF)	Y	242°(241.36°)	+0.8	1 minute	L	+3000	- 230	-	RNP APCH

WAYPOINT LIST

RNP RWY24

Waypoint Identifier	Coordinates	
VOBOT	14 33 56.57 N	101 36 21.77 E
CAROY	14 52 00.64 N	102 22 20.23 E
BOANA	14 56 48.98 N	102 31 23.39 E
SAMBY	14 58 49.02 N	102 40 22.21 E
FINNY	15 07 36.79 N	102 25 19.66 E
YALIS	15 02 05.92 N	102 28 25.50 E
NAKNF	14 59 41.75 N	102 23 53.77 E
NAKNM (THR24)	14 57 14.58 N	102 19 16.70 E

CHANGE: CHART TITLE.

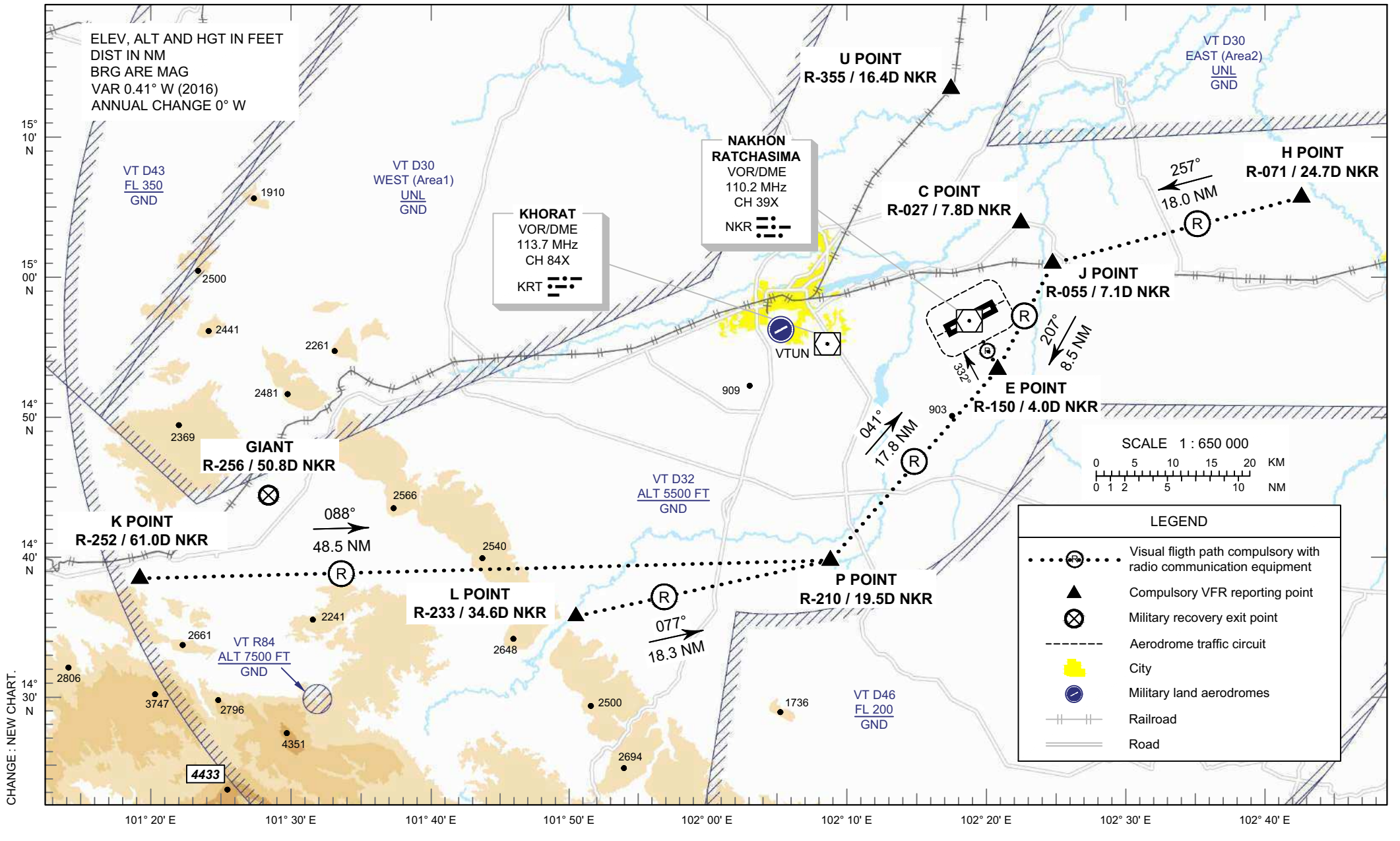
VFR ENTRY PROCEDURE CHART

AERODROME ELEV 765 FT
HEIGHTS RELATED TO AERODROME ELEV

RATCHASIMA
APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6

KHORAT
APP : 129.75, 349.0
TWR : 122.2, 240.5
GND : 121.75, 257.8
ATIS : 390.6

NAKHON RATCHASIMA/
Nakhon Ratchasima (VTUQ)
RWY 06/24



VFR ENTRY PROCEDURE CHART

AERODROME ELEV 765 FT
HEIGHTS RELATED TO AERODROME ELEV

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ) RWY 06/24

ARR - RWY06/24 (From North)
ATC instruction only.

ARR - RWY06/24 (From East)
Inbound via H POINT then heading 257° to J POINT. Heading 207° to E POINT, then join aerodrome traffic circuit when directed by ATC.

ARR - RWY06/24 (From South)
Inbound via L POINT then heading 077° to P POINT. Heading 041° to E POINT, then join aerodrome traffic circuit when directed by ATC.

ARR - RWY06/24 (From West)
Inbound via K POINT then heading 088° to P POINT. Heading 041° to E POINT, then join aerodrome traffic circuit when directed by ATC.

Reporting points	Landmark	Radial / DME	Coordinates	
			Latitude	Longtitude
E POINT	Ponds	R-150 / 4.0D NKR	14° 53' 20.05" N	102° 20' 43.80" E
J POINT	Jakkarat district	R-055 / 7.1D NKR	15° 00' 55.13" N	102° 24' 39.86" E
C POINT	Curve road	R-027 / 7.8D NKR	15° 03' 44.31" N	102° 22' 19.49" E
U POINT	U-turn bridge on railway and road	R-355 / 16.4D NKR	15° 13' 09.41" N	102° 17' 08.09" E
H POINT	Huai Tha Laeng City	R-071 / 24.7D NKR	15° 05' 06.60" N	102° 42' 42.50" E
P POINT	Bueng Phra ponds	R-210 / 19.5D NKR	14° 39' 45.87" N	102° 08' 48.08" E

Reporting points	Landmark	Radial / DME from NKR VOR	Coordinates	
			Latitude	Longtitude
L POINT	Lam Phra Phloeng ridge	R-233 / 34.6D NKR	14° 35' 35.43" N	101° 50' 24.39" E
K POINT	Mine	R-252 / 61.0D NKR	14° 37' 47.39" N	101° 18' 45.82" E
GIANT	Military Recovery Exit point procedure	R-256 / 50.8D NKR (R-254 / 41.0D KRT)	14° 43' 48.00" N	101° 28' 00.00" E
NKR VOR/DME		-	14° 56' 47.66" N	102° 18' 40.35" E
KRT VOR/DME		R-260 / 10.1D NKR	14° 55' 02.35" N	102° 08' 23.32" E

CHANGE : NEW CHART.

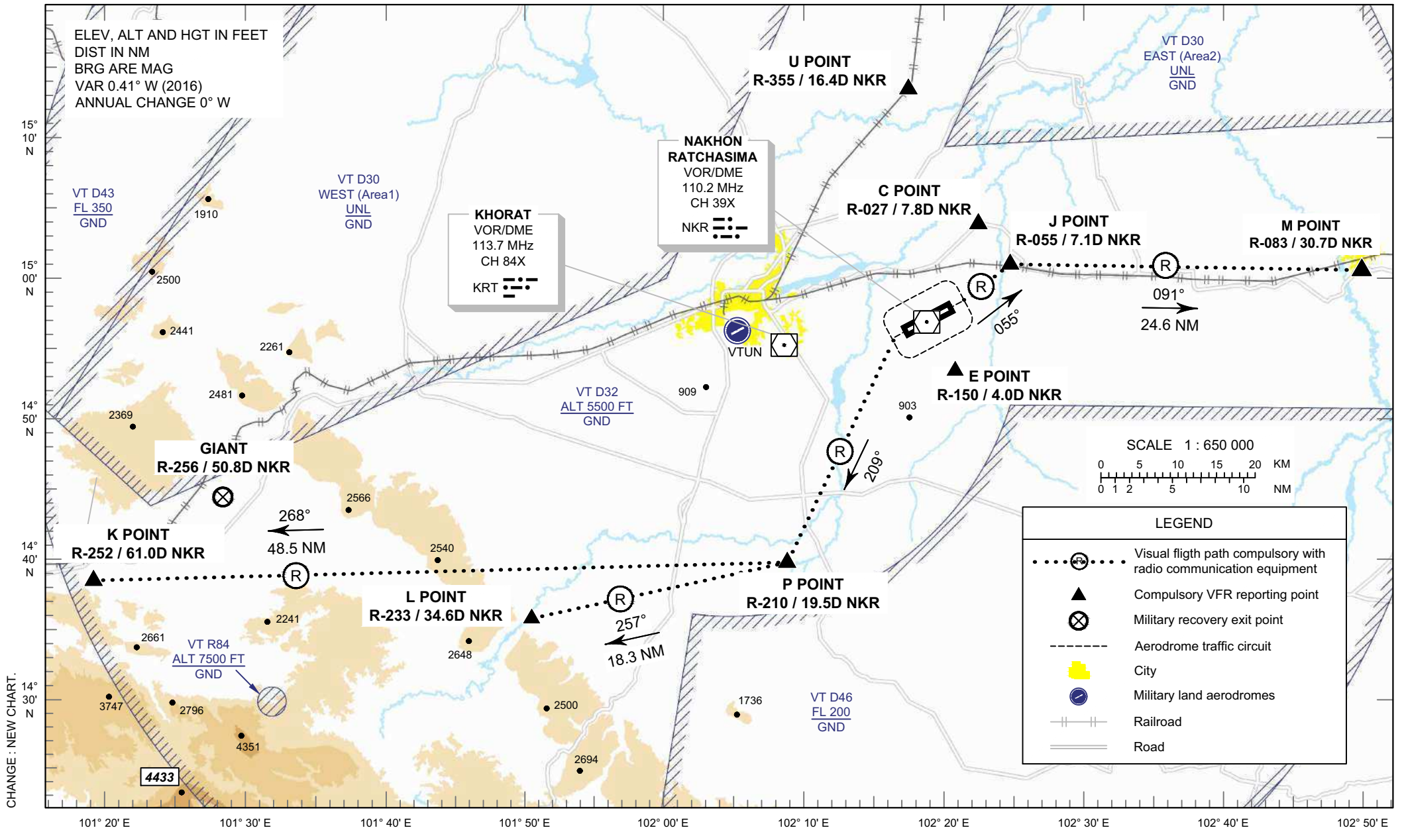
VFR EXIT PROCEDURE CHART

AERODROME ELEV 765 FT
HEIGHTS RELATED TO AERODROME ELEV

RATCHASIMA
APP : 123.6
TWR : 119.8, 236.6
ATIS : 126.6

KHORAT
APP : 129.75, 349.0
TWR : 122.2, 240.5
GND : 121.75, 257.8
ATIS : 390.6

NAKHON RATCHASIMA/
Nakhon Ratchasima (VTUQ)
RWY 06/24



VFR EXIT PROCEDURE CHART

AERODROME ELEV 765 FT
HEIGHTS RELATED TO AERODROME ELEV

NAKHON RATCHASIMA/ Nakhon Ratchasima (VTUQ) RWY 06/24

CHANGE : NEW CHART.

DEP - RWY06/24 (To North)
ATC instruction only.

DEP - RWY06/24 (To East)
Outbound to J POINT, then Heading 091° to M POINT.

DEP - RWY06/24 (To South)
Outbound to P POINT, then heading 257° to L POINT.

DEP - RWY06/24 (To West)
Outbound to P POINT, then heading 268° to K POINT.

Reporting points	Landmark	Radial / DME	Coordinates	
			Latitude	Longtitude
E POINT	Ponds	R-150 / 4.0D NKR	14° 53' 20.05" N	102° 20' 43.80" E
J POINT	Jakkarat district	R-055 / 7.1D NKR	15° 00' 55.13" N	102° 24' 39.86" E
C POINT	Curve road	R-027 / 7.8D NKR	15° 03' 44.31" N	102° 22' 19.49" E
U POINT	U-turn bridge on railway and road	R-355 / 16.4D NKR	15° 13' 09.41" N	102° 17' 08.09" E
M POINT	Lam Prai Mas City	R-083 / 30.7D NKR	15° 00' 46.24" N	102° 50' 05.95" E
P POINT	Bueng Phra ponds	R-210 / 19.5D NKR	14° 39' 45.87" N	102° 08' 48.08" E

Reporting points	Landmark	Radial / DME from NKR VOR	Coordinates	
			Latitude	Longtitude
L POINT	Lam Phra Phloeng ridge	R-233 / 34.6D NKR	14° 35' 35.43" N	101° 50' 24.39" E
K POINT	Mine	R-252 / 61.0D NKR	14° 37' 47.39" N	101° 18' 45.82" E
GIANT	Military Recovery Exit point procedure	R-256 / 50.8D NKR (R-254 / 41.0D KRT)	14° 43' 48.00" N	101° 28' 00.00" E
NKR VOR/DME		-	14° 56' 47.66" N	102° 18' 40.35" E
KRT VOR/DME		R-260 / 10.1D NKR	14° 55' 02.35" N	102° 08' 23.32" E