AD 2. AERODROMES

VGHS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VGHS- HAZRAT SHAHJALAL INTERNATIONAL AIRORT, DHAKA.

VGHS AD 2-2 AERODROME GEOGRAPHICAL AND ADMINISTRATION DATA

1	ARP Coordinates and site at AD	235036.05N 0902352.02E (Centre of the runway)
2.	Distance and direction from city	11NM(20km) north of Dhaka City (GPO)
3.	Aerodrome elevation Reference temperature	ELEV 27 FT (8M) T 35 ^{0}c (April)
4.	MAG VAR	1^{0}W in 1967 (Annual change negligible)
5.	Aerodrome administration, address, telephone, Telefax, AFS, E-mail.	Civil Aviation Authority of Bangladesh Postal Address: Director Hazrat Shahjalal International Airport Kurmitola, Dhaka-1229, Bangladesh. Telephone:88-02- 8901449, Telefax : 88-02- 8901450 AFS : VGHSYDYX Telegram: Civil drome, Dhaka. E-mail :
6	Types of traffic permitted	IFR/VFR
7	Remarks	Nil

VGHS AD 2-3 OPERATIONAL HOURS

SL. NR.	Services	Hours
1.	Aerodrome Administration	0900 LT to 1700 LT Except Friday & Saturday
2.	Custom and Immigration	H24
3.	Health and Sanitation	H24
4.	AIS briefing office	H24
5.	ATS reporting office (ARO)	H24
6.	MET briefing office	H24
7.	Air traffic service	H24
8.	Fuelling	H24
9.	Handling	H24
10.	Security	H24
11.	De-icing	NIL
12.	Remarks	NIL

VGHS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	01 Mobile cranes 12 Container pallet loaders 09 Container pallet transporters 10 Belt loaders 22 Baggage tow tractors 50 Cargo/Baggage trolleys 145 Container trolleys/dollies 45 Hand trolleys 09 Fork lifters 01 Narrow Aisle stacker 75 Pallet Trolley
2	Fuel/Oil Types	Jet A-1 AVGAS 100LL, Pack drum
3	Fuelling facilities/Capacity	Hydrant dispenser, Bowser refueling for 24 hours.
4.	De-icing facilities	NIL requirement
5.	Hangar space for visiting aircraft	By arrangement with Biman Bangladesh Airlines (BBC)
6.	Repair facilities for visiting aircraft	Limited
7.	Remarks	Nil

VGHS AD 2.5 PASSENGER FACILITIES

1	Hotels	One 5 Star hotel at Nikunja (2 km towards city), Unlimited in Dhaka city.
2.	Restaurant accommodation	Limited at the Airport, Unlimited in Dhaka City
3.	Transportation available	Buses, Taxis and Trains to Dhaka City.
4.	Medical facilities	24 hours doctor avbl from Health Dept. Ambulance avbl 24 H, Hospitals and Clinic avbl within 1 NM.
5.	Banks	Available at Airport
6.	Tourist office	Available at Airport
7.	Post Office	Not available at Airport, but available at Hajj Camp (1KM)
8.	Remarks	International address: http://www.caab.gov.bd for any Information

VGHS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD Category for fire fighting	Required Category 9, Available Category 9.
2.	Rescue equipment Avb1	Adequately provided as recommended by ICAO
3.	Disabled Aircraft Removal	Description — Number/Set i) Platform — 4(four) nos. capacity 50(fifty) tons each ii) Malbro Truck — 2(Two) nos. capacity 3 (three) tons each. iii)Engine Air compressor 4 (four) tons; (150 P.S.I) iv) Air distribution — 8(eight)sets (each Console set contain 12 Units) 8(eight) sets, (each set contain 11bags). v) Pneumatic Elevator — Capacity 50 (fifty) tons each set. vi) Valise (body stamp) — 4 (four)nos. vii) Centrifugal Fan — 1(one) no. viii) Tethering — required nos. Note: 1) Serviceability of the items to be checked up before use. 2) Charges for use of salvage equipments will be fixed on the extent of use of the various equipments.
4.	Remarks	Nil

VGHS AD 2.7 SEASONAL AVAILABILITY CLEARING

2.7.1 The airport is available for all seasons. Side strips become unusable during monsoon. There is no requirement for clearing.

VGHS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1.	Apron Surface and Strength	Main Apron	Surface: Rigid pavement Strength: PCN 70/R/B/W/T
		Cargo Apron	Surface: Rigid pavement Strength: PCN 70/R/B/W/T
		VVIP Apron	Surface: Rigid pavement Strength: PCN 70/R/B/W/T
		Cargo Village Apron	Surface: Rigid pavement Strength: PCN 59/R/B/W/U
2.	Taxiway Width, Surface and Strength	North Taxiway	Width: 23m & Shoulder 10.5m both side of TWY Surface: Flexible pavement Strength: PCN 192/F/C/W/T
		South Taxiway	Width: 23m & Shoulder 10.5m both side of TWY Surface: Flexible pavement Strength: PCN 162/F/B/W/T
		High speed Taxiway	Width: 23m & Shoulder 10.5m both side of TWY Surface: Flexible pavement Strength: PCN 209/F/C/W/T
3.	ACL location and elevation	Not designated	
4.	INS checkpoints	Nil	
5.	Remarks	Nil	

VGHS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKING

1	Use of aircraft stand ID signs, TWY guidelines and visual docking/parking guidance system of aircraft stands; Boarding **Bridges:** Tow bar:	Taxiing guidance signs at all intersections with TWY and RWY at all holding positions, guidelines at apron, nose-in guidance at aircraft stands. **8(eight)** boarding bridges are available at stands nr. X, 1, 2, 3, 4, 5, 6 & 16 for passenger's use and can accommodate acft fm A320 up to B747 in size. Due to parking and manoeuvring problem , all ACFT with wing-span more than 80ft operating to/fm Hazrat Shahjalal International Airport are required to have tow bar for pushback.
2.	RWY and TWY markings and LGT	RWY: 14/32 RWY marking aids: THR, TDZ, Centre line, Fixed distance, Side strip, RWY designator all runways. RWY EDGE LGT: White, omni-directional with intensity 3%, 10%, 30%, 80% and 100%; 60 M apart. THR light: Green lights, supplemented by green wing-bar. END LGT: RED RWY Centre line LGT: AVBL; 30M apart. TWY marking aids: AVBL on TWY holding position, TWY centre line at all taxiways. TWY EDGE LGT: Not AVBL. **TWY Centre Line LGT**: **AVBL** at all TWYs.
3	Stop bars	TWY Stop bar LGT: Avbl at all TWY holding position.
4.	Remarks	NIL

VGHS AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas	In circling area and at AD
Consult AOC type-A, Hazrat Shahjalal Intl. Page VGHS AD 2-17	Obstruction in the circling area and aerodrome are shown on the instrument approach chart and page VGHS AD 2-11. Obstructions are provided with day marking and obstruction lights where applicable.

VGHS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated Met office	Main Met Office (MMO), Hazrat Shahjalal Intl. Airport (VGHS)
2	Hours of service	H24
3	Office responsible for TAF preparation Periods of validity	MMO, Hazrat Shahjalal Intl. (VGHS) 6, 12
4	Type of landing forecast Interval of issuance	TREND
5	Briefing/ consultation provide	P.D.T
6	Flight documentation Languages used	C.PL English
7	Charts and other information available for briefing or consultation	S,U
8	Supplementary equipment available for providing information	WXR
9	ATS units provided with information	Dhaka ACC/FIC;APP;TWR
10	Additional information	Tel: 880-2-8901013 (Met office)

VGHS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designator RWY NR	TRUE & MAG BRG	Dimensions of RWY (m)	Strength (PCN) and surface of RWY & SWY	THR Co-ordinates	THR ELEV and highest ELEV of TDZ (FT)	Slope of RWY – SWY
1	2	3	4	5	6	7
14	144^0 TRUE	3200x45	**116/F/C/W/T** Asphalt concrete	235118.11N 0902318.62E	27	Nil
32	324^0 TRUE	3200x45	**116/F/C/W/T** Asphalt concrete	234954.00N 0902425.40E	27	Nil

Designator RWY NR	RESA	STRIP	Remarks
8	9	10	11
14	90 X 90 m	3710 X 300	Nil
32	90 X 90 m	3710 X 300	

Designator RWY NR	SWY Dimensions(m)	CWY Dimensions(m)	OFZ	Remarks
12	13	14	15	16
14	240x45	425x150	Within the CWY	25 ft (8M) brick soiling with bitumen carpeting shoulder at both sides of RWY.
32	150x45	300x150		

VGHS AD 2.13 DECLARED DISTANCES

1	2	3	4	5	6	Remarks
RWY Designator	TORA(m)	TODA(m)	ASDA(m)	LDA(m)	RESA(m)	Due to Length reduction of SWY
14	3200	3625	3440	3200	90	
→ 32	3200	3500	3350	3200	90	

VGHS AD 2-14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT Type INTSTY	THR LGT Colour WBAR	PAPI (MEHT)	TDZ LGT LEN	RWY Centre Line LGT	RWY edge LGT LEN, Spacing, colour INTSTY	RWY END LGT Colour WBAR	SWY LGT	Remarks
1	2	3	4	5	6	7	8	9	10
14	Precision approach CAT-I Lighting system, Simple approach lighting system and sequenced flashing lights Supplementary Approach light	Green Supplemented by Green Wing bar	PAPI 3^0 MEHT on slope (67FT)	Avbl	Avbl	60m apart While omni-directional with intensity 1%, 3%, 10%, 30%, 100%	Red: uni-directional Green : omni-directional	avbl	Nil
32	Simple approach Lighting system	Green supplemented by Green Wing bar	PAPI 3^0 MEHT on slope (65FT)	Nil	Avbl	60m apart While omni-directional with intensity 1%,3%, 10%, 30%, 100%	Red: uni-directional Green: omni-directional	avbl	Nil

VGHS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN Location, Characteristics and hours of operation	ABN:235057.20N 0902413.24E(over control TWR) Altn W/G every 5 sec (hours: HN & VIS< 5 Km) W500 G75
2	LDI location and LGT Anemometer location and LGT	Nil Cup anemometer over control TWR, windsocks end of RWY 14/32 and in the middle of RWY.
3	TWY edge and centre line lighting	Edge: Nil **Centre Line**: **AVBL** for all TWYs
4	Secondary power supply/switch over time.	During main power supply failure, Automatic standby generator power supply available for Approach, RWY, TWY & apron lighting within 15 seconds.
5	Remarks	Apron lights: High intensity flood lights, blue edge lights.

VGHS AD 2.16 HELICOPTER LANDING AREA

As directed by ATC

VGHS AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

1	Designation	Dhaka Control Zone
	Lateral limits	A circle of 25 NM radius centered at Dhaka VOR (234927.42N 0902446.52E) except that portion which falls north of the straight line joining points 241147N 0903550E and 241147N 0901350E
2	Vertical limits	GND to FL055
3	Airspace Classification	C
4	ATS Unit call sign Language	Dhaka Tower English
5	Transition altitude	4000 FT AMSL
6	Remarks	Nil

1	Designation	Aerodrome Traffic Zone (ATZ)
	Lateral limits	ATZ is oval shaped area joining outer tangents of 5NM (9KM) radius circles centered at the RWY centre and both ends of RWY ←
2	Vertical limits	4000 FT
3	Airspace Classification	C
4	ATS Unit call sign Language	Dhaka Tower English
5	Transition altitude	4000 FT AMSL
6	Remarks	Nil

VGHS AD 2.18 AIR TRAFFIC SERVICES COMMUNICATIONS FACILITIES

Service Designator	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
Dhaka Area control centre (ACC)	Dhaka control	125.7 MHz	FM 1400 to 0200 UTC (next day)	EMERG FREQ 121.5MHz
Dhaka ACC (Upper)	Dhaka control	PRI 125.7 MHz SRY 129.7 MHz	FM 0200 to 1400 UTC	FL285 TO FL460
Dhaka ACC (Lower)	Dhaka control	PRI 126.7 MHz SRY 130.7 MHz	FM 0200 to 1400 UTC	GND TO FL285
TWR (Aerodrome and Approach Control (Non – Radar)	Dhaka Tower	PRI 118.3 MHz SRY 119.3 MHz	H24	EM: A3
APP (Radar)	Dhaka Approach	PRI 121.3 MHz SRY 120.3 MHz	0130-1700 Daily Except SAT, BTN 0130-0630 on SAT.	EMERG FREQ 121.5MHz During OJT (on the job Training) in TWR/APP (Non-radar) or Area control (Non-radar) Radar APP Control services at Hazrat Shahjalal Intl Airport will be limited. However, Radar APP control service may be avbl during OJT on request.
SMC	Dhaka Ground	121.8 MHz	H24	NIL
Air ground	Dhaka Radio	3491 KHz, 6556 KHz, 10066 KHz, 2947 KHz	H24	MWARA (3491,6556,10066)KHz RDARA (2947)KHz EM: A3 coordinate: 235057.20N 0902413.24E
ATIS	Dhaka Information	127.4 MHz	H24	Nil

VGHS AD 2.19 RADIO NAVIATION AND LANDING AIDS

Type of aid	Ident	Freq	Opr hr	Coordinates	Elev of DME Transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR	DAC	112.7 MHz	H24	234927.42N 0902446.52E	50FT AMSL	144 ^{0} MAG, 1012 M FM THR RWY 32 EM: A2
DME	DAC	1161 MHz	H24	234927.42N 0902446.52E	50FT AMSL	144^{0} MAG, 1012 M FM THR RWY 32 EM: A9
NDB	DCN	298 KHz	H24	235034.32N 0902503.67E	100FT AMSL	046^{0} MAG, 1795 FM THR RWY 32 EM: A2
ILS/LLZ RWY 14	IDA	109.5MHz	H24	234940.04N 0902436.49E		145^{0} MAG, 550m FM THR RWY 32 EM: A2
ILS/GP RWY 14	-	332.6 MHz	H24	235112.67N 0902328.62E	50 FT	Glide slope 3^{0}, 130M off set to east of Rwy central line and 300M inward FM Rwy THR 14. RDH 52ft, EM:A3
ILS/DME RWY 14	-	RX-1056 MHz, RPLY-993 MHz	H24	235112.67N 0902328.62E		Co-located With GP-14
MM ILS 14	-	75 MHz	H24	235145.75N 0902256.66E		324^{0} MAG, 1050M FM THR RWY 14 EM: A2
OM ILS 14	-	75 MHz	H24	235557.71N 0901937.12E		324^{0} MAG, 5.8NM FM THR RWY 14 Outer Marker operating without remote monitoring facilities, EM: A2
LO	DA	375 KHz	H24	235558.39N 0901936.52E		324^{0} MAG, 5.8NM FM THR RWY 14 EM:A2
ILS/LLZ RWY 32	DHA	108.5MHz	H24	235126.7N 0902312.0E		324^{0} MAG AND 310m FM THR RWY 14 EM: A2
ILS/GP RWY 32	-	329.6 MHz	H24	235004.59N 0902422.75E	50 FT	Glide slope 3^{0}, 130M off set to east of RWY central line and 305M inward FM THR 32. RDH 52ft, EM:A3
ILS/DME RWY 32	-	RX-1046 MHz, RPLY-983 MHz	H24	235004.59N 0902422.75E		Co-located With GP-32

VGHS AD 2.20 LOCAL TRAFFIC REGULATIONS

Prior approval to be obtained from ATC

VGHS AD 2.21 NOISE ABATEMENT PROCEDURES

1. SID's are designed to make all take-off noise abated.

VGHS AD. 2.22 FLIGHT PROCEDURES

NIL

VGHS AD 2.23 ADDITIONAL INFORMATION

1. Bird Concentrations:

Bird concentrations may exist on or in the vicinity of Hazrat Shahjalal International Airport, Dhaka due to low lying area around the airfield, during the period from December to May of the year. Bird shooters are posted on the maneuvering area to reduce the bird hazard. Moreover, necessary information about the location of birds, if visible, is transmitted to the pilots by Aerodrome Control Tower. However, pilots are requested to exercise caution while approaching to land & takeoff.

2. RWY Turning Pads of Hazrat Shahjalal International Airport .

Turning pads of length 97m and width 46m at the inner sides of RWY increasing to 89m towards the THR are avbl, at both ends of RWY. A circle of diameter 75m is possible within each pad.

LIST OF HIGH MAST/ TOWER/ BUILDING/ BARRIER/ ANTENNA AROUND HAZRAT SHAHJALAL INTERNATIONAL AIRPORT, DHAKA.

SL No	Name of the significant obstacles/obstructions	Co-ordinates Of the Obstacle	True Bearing FM REF point	Dist (m) FM Ref Point	Elevation AMSL (FT)	LGT	
1	DVOR Mast	234927.42N 902446.52E	143.86	2611	50	Yes	
2	Control Tower	235057.18N 0902413,24E	026^0	1376	102	Yes	←
3	Water Tank, CAAB HQs	235116.08N 0902413.56E	026^0	1376	162	Yes	←
4	T.V. Tower, Rampura	234555.71N 902523.47E	163.29	9001	453	Yes	
5	Tower at Army HQ Building, Dhaka Cantonment	234825.79N 902402.38E	175.81	4019	227	Yes	
6	Tower at Naval HQ Building, Banani	234808.57N 902415.37E	171.71	4593	216	Yes	
7	Tower at BTCL Office, Mogbazar.	234453.27N 902429.14E	174.31	10593	341	Yes	
8	Wireless Mast at Mirpur Radio Centre.	234650.01N 902123.52E	211.16	8130	223	Yes	
9	Wireless Mast at Savar Radio Centre.	235146.87N 901555.98E	279.21	13649	432	Yes	←
10	Wireless Mast at Nayarhat Radio Centre.	235422.99N 901156.15E	289.06	21428	683	Yes	←
11	Tower at Pallabi, Mirpur.	234931.66N 902135.22E	242.91	4352	213	Yes	
12	Tower at Auchpara/Khortail, Tongi.	235512.09N 902308.26E	351.71	8575	217	Yes	
13	Antenna at RAB-1, Uttara.	235127.83N 902413.53E	020.9	1704	262	Yes	
14	Hotel Le Meridian, Nikunja-2	235011.93N 902504.17E	109.97	2167	216	Yes	
15	Hotel Westin, Gulshan-2	234735.36N 902452.46E	162.89	5815	364	Yes	
16	Radio Mast, RAB- 4 (Paikpara), Mirpur	234708.99N 902125.55E	213.07	7593	266	Yes	
17	Tower on Concord Regency, Panthapath	234508.67N 902256.39E	188.89	10186	264	Yes	
18	CRP Hospital, Mirpur	234814.0N 902314.7E	193.59	4496	227	Yes	
19	Queen Mary College, KA-90, Kuril	234906.5N 902515.9E	139.25	3637	166	-	
20	ABC Heritage, Uttara	235139.5N 902356.0E	003.3	1955	194	Yes	
21	Garden Tower, Paribagh	234432.3N 902339.3E	181.84	11197	230	Yes	
22	Syed Centre, Rd#35, Sector-7, Uttara	23 52 16.1 N 902400.4 E	004.41	3087	219	Yes	
23	A.H.Tower, House- 35, Sector-3, Uttara, Dhaka	2352 00.6 N 902358.5 E	004.03	2607	232	Yes	

1. STANDARD INSTRUEMENT DEPARTURES (SIDs)-HSIA. DHAKA

All take-off shall be noise abated.

Factors common to all SIDs are:-

i) The radials shall be reference to the Dhaka VOR
ii) Aircraft should intercept their cleared track by 10 DME Dhaka.
iii) All references to altitude shall be QNH.

DEPARTURE RUNWAY 14

ATS route Designator	TMA Boundary Designator	SID Designator	Routing after take- off
W1	NIKLI	NIKLI ONE	Maintain Runway heading to 1000 ft then turn left to intercept the 050 radial.
		NIKLI ONE ALFA	Maintain Runway heading to 2000 ft then turn left to intercept the 050 radial.
G463	ADMIL	ADMIL ONE	Intercept the 141 radial.
A462	IKOGU	IKOGU ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 237 radial.
		IKOGU ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 237 radial.
W2	IBANU	IBANU ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 242 radial.
		IBANU ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 242 radial.
G463	BATEL	BATEL ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 290 radial.
		BATEL ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 290 radial.
W3	TEGAK	TEGAK ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 305 radial.
		TEGAK ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 305 radial.
W9	KAKBO	KAKBO ONE	Maintain Runway heading to 1000 ft then turn right and cross radial 175 at or above 2000 ft to intercept 187 radial.
		KAKBO ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 187 radial.
W14	NUPUR	NUPUR ONE	Intercept the 150 radial.
		NUPUR ONE ALFA	Maintain Runway heading to 2000 ft then turn right to intercept 150 radial.

DEPARTURE RUNWAY 32

ATS route Designator	TMA Boundary Designator	SID Designator	Routing after take off
W1	NIKLI	NIKLI TWO	Maintain Runway heading to 1000ft then turn right to intercept the 050 radial.
G463	ADMIL	ADMIL TWO	Maintain Runway heading to 1000ft then turn right to intercept the 141 radial.
W3	TEGAK	TEGAK TWO	Maintain Runway heading to 1000ft then turn left to intercept the 305 radial.
A462	IKOGU	IKOGU TWO	Maintain Runway heading to 1000ft then turn left to intercept the 237 radial.
W2	IBANU	IBANU TWO	Maintain Runway heading to 1000ft then turn left to intercept the 242 radial.
G463	BATEL	BATEL TWO	Maintain Runway heading to 1000ft then turn left to intercept the 290radial.
W9	KAKBO	KAKBO TWO	Maintain Runway heading to 1500ft then turn left to intercept the 187radial.
W14	NUPUR	NUPUR TWO	Maintain Runway heading to 1500ft then turn left to intercept the 150radial.
2. SPEED LIMITATION FOR ARRIVING AIRCRAFT. IFR Flight: -N/A VFR Flight: -250 KT IAS below 3050m (10,000ft) AMSL.			

VGHS 2.24 CHARTS RELATED TO HAZRAT SHAHJALAL INTL AIRPORT

ICAO CHARTS		
NR	Chart Type	Page NR (VGHS)
1.	Aerodrome Chart	AD 2-15
2.	Aerodrome Obstruction Chart	AD 2-17
3.	Parking Chart	AD 2-16
4.	Instrument Approach Chart	AD 2-19 to AD 2 – 49

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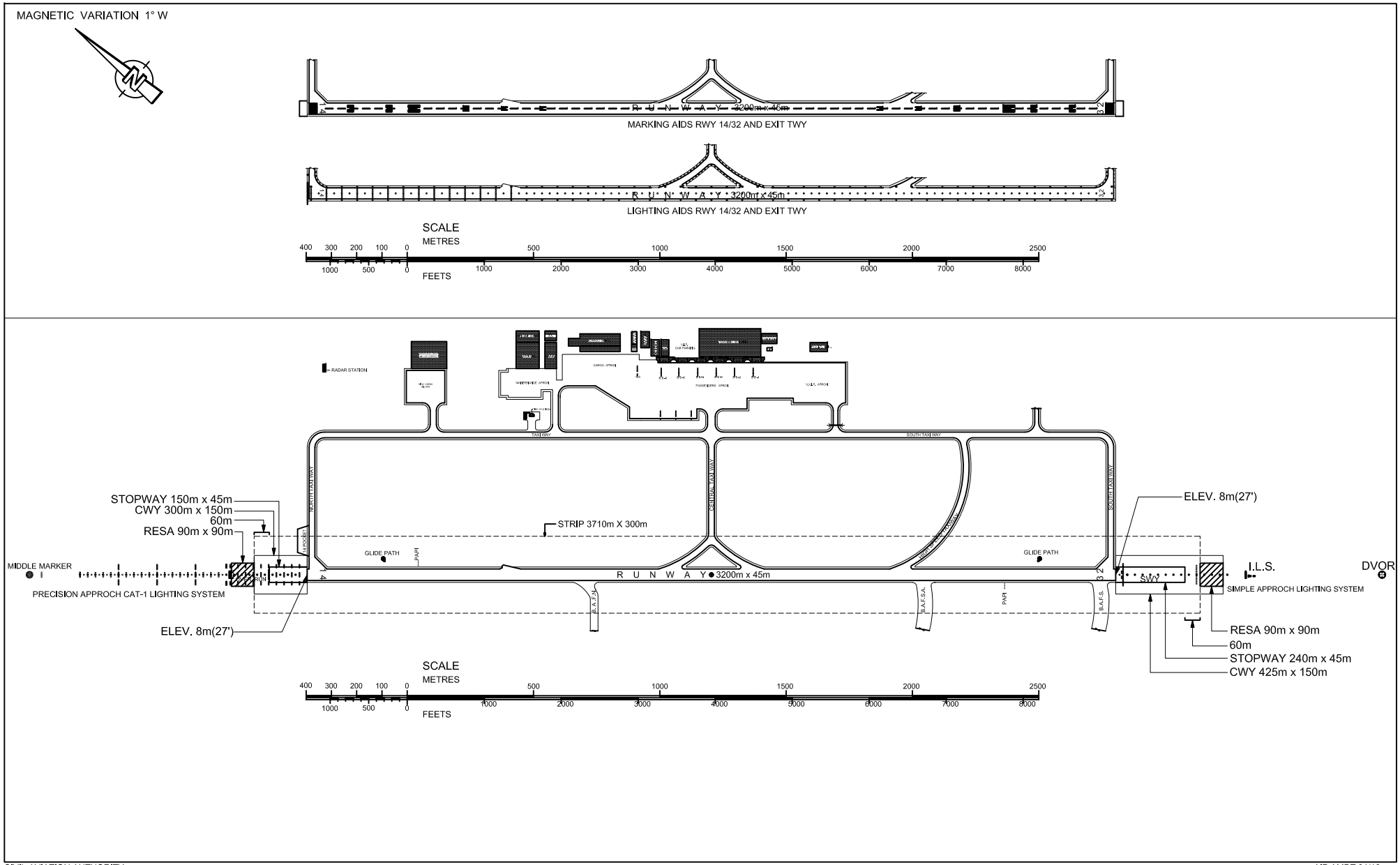
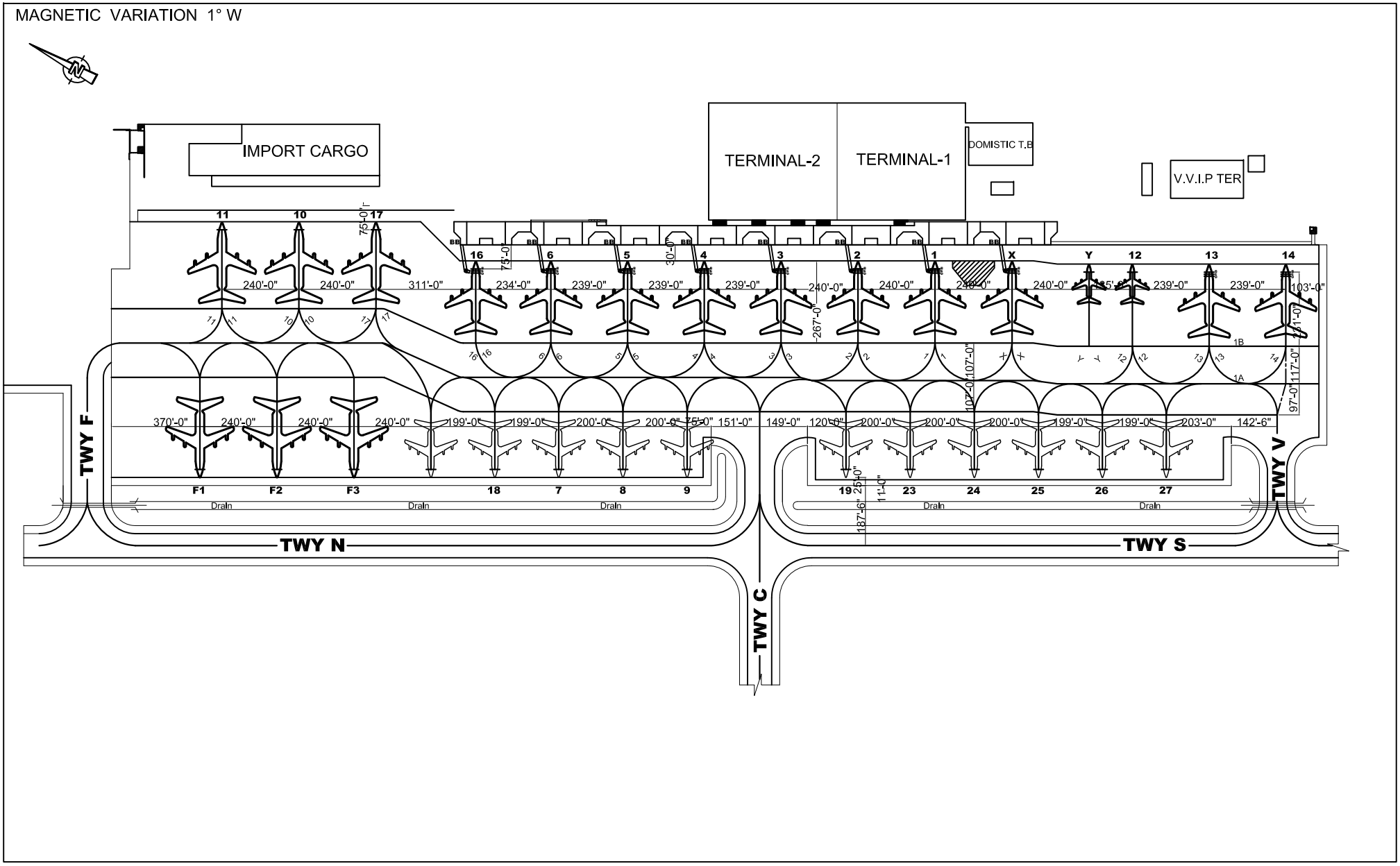
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT, DHAKA

AERODROME CHART-ICAO



HAZRAT SHAHJALAL INTERNATIONAL AIRPORT, DHAKA

AIRCRAFT PARKING / DOKING CHART



AERODROME OBSTRUCTION CHART-ICAO

HAZRAT SHAHJALAL INTERNATIONAL AIRPORT, DHAKA

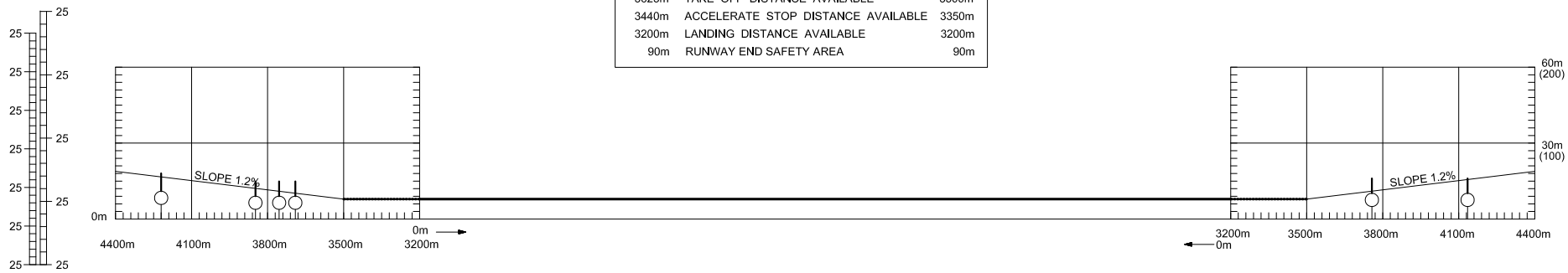
TYPE A (OPERATING LIMITATIONS)

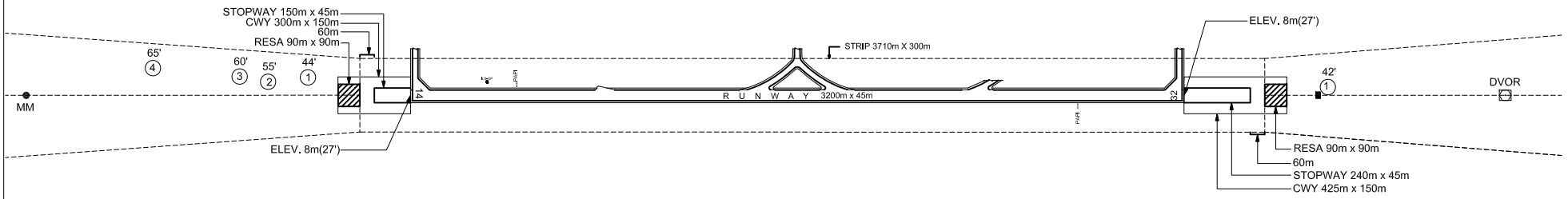
DIMENSIONS AND ELEVATIONS IN METRES/FEET

MAGNETIC VERIATION 1° W

RWY 14/32

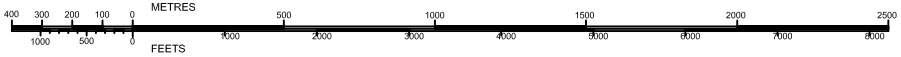
DECLARD DISTANCES		
RWY 14		RWY 32
3200m	TAKE OFF RUN AVAILABLE	3200m
3625m	TAKE OFF DISTANCE AVAILABLE	3500m
3440m	ACCELERATE STOP DISTANCE AVAILABLE	3350m
3200m	LANDING DISTANCE AVAILABLE	3200m
90m	RUNWAY END SAFETY AREA	90m





LEGEND	
IDENTIFICATION NUMBER	◯
TREE	
BUILDING LOCALIZER	■

HORIZONTAL SCALE 1 : 5000

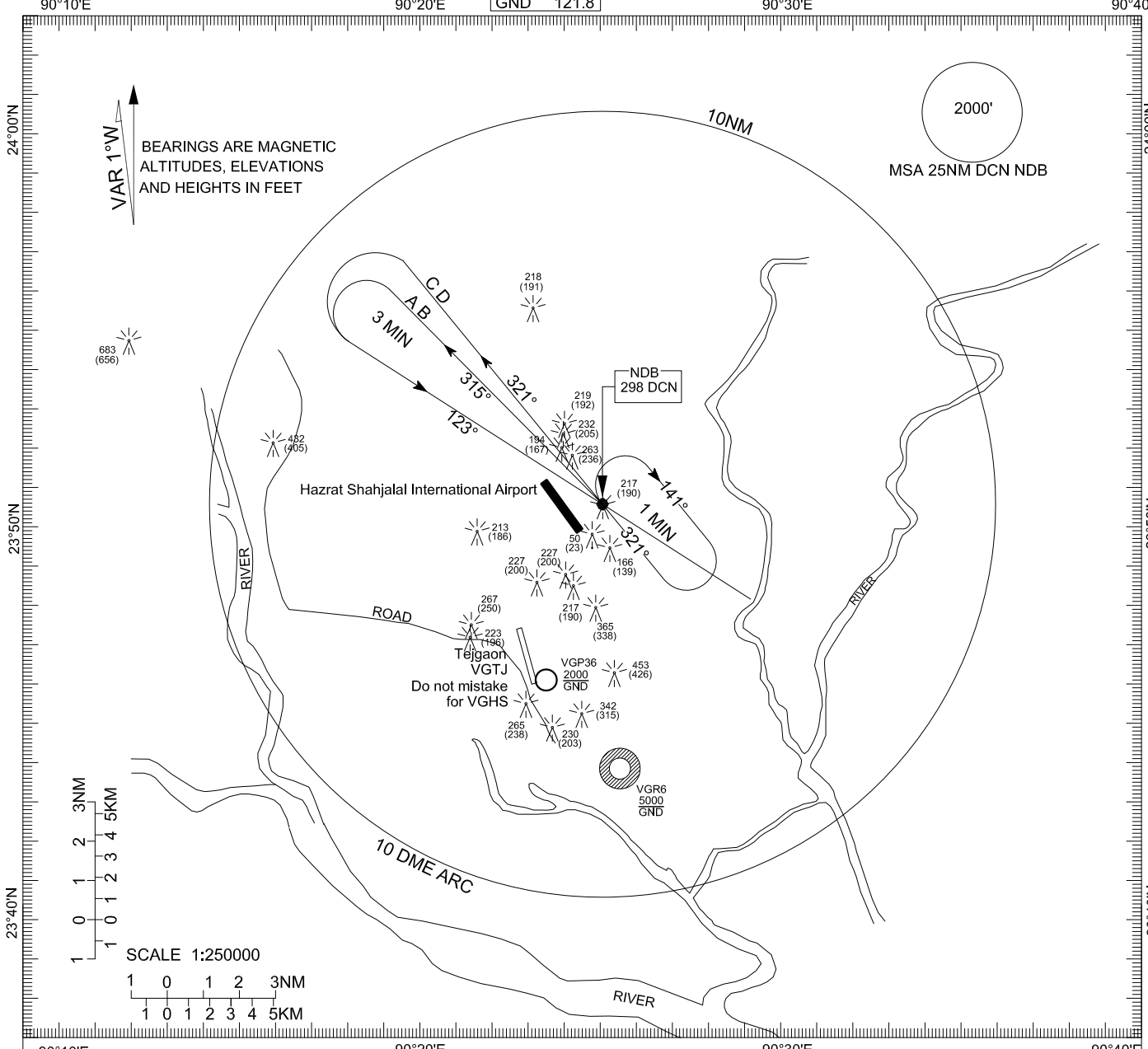


INSTRUMENT APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED TO AD ELEV

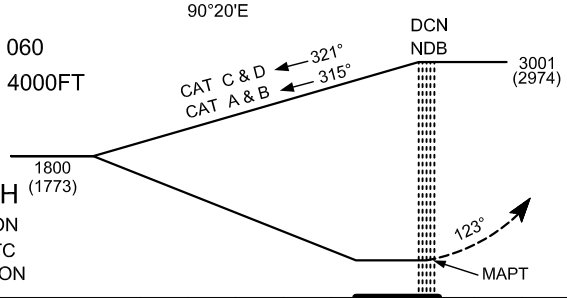
ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
NDB RWY 14



TRANSITION LEVEL FL 060

TRANSITION ALTITUDE 4000FT



MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 123°, CONTACT ATC FOR FURTHER INSTRUCTION

MET MINIMA
VIS 2800m

6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 NM

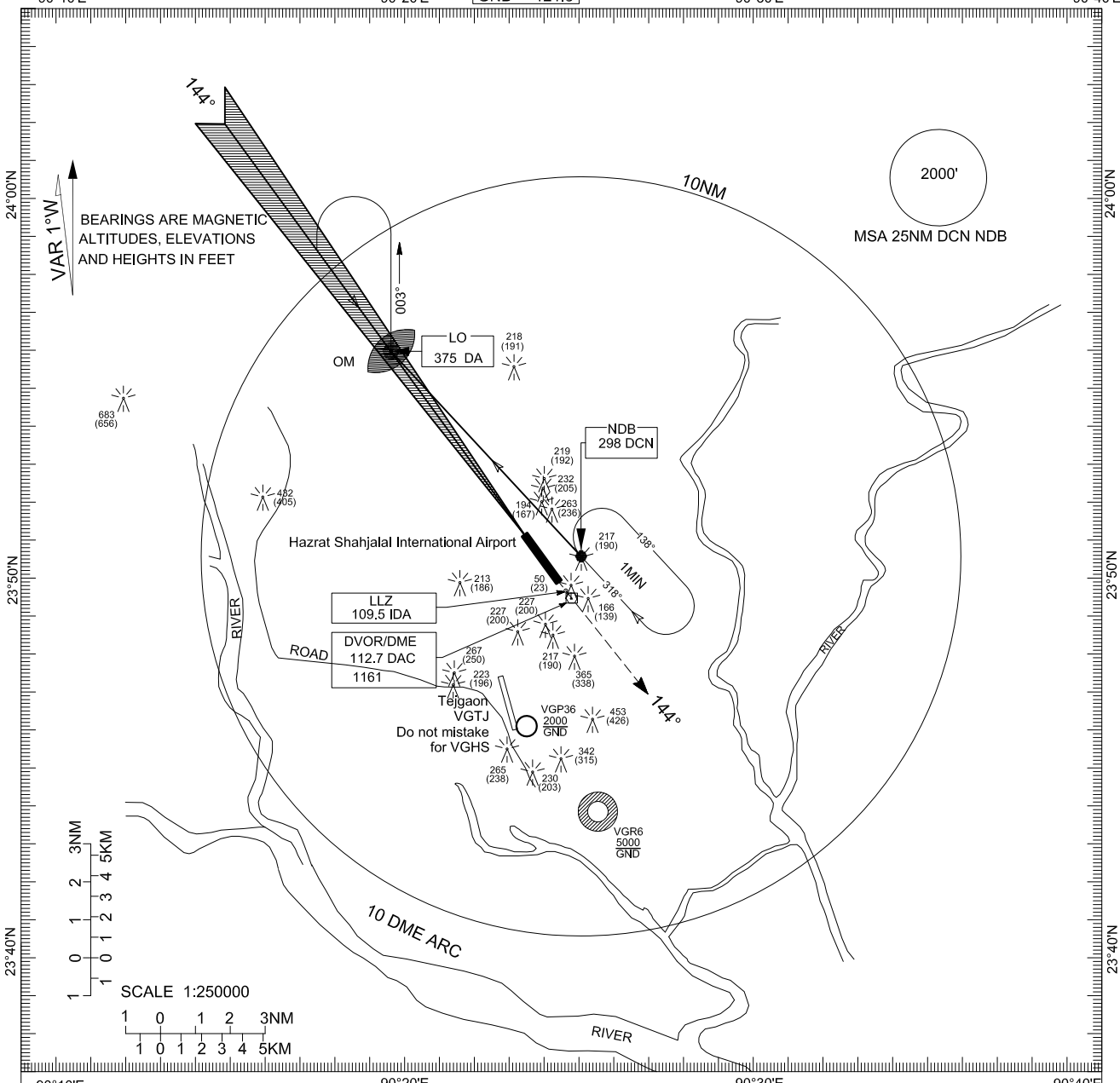
CATEGORY OF ACFT	A	B	C	D
OCA	550	550	550	550

INSTRUMENT
APPROACH CHART
CHART-ICAO

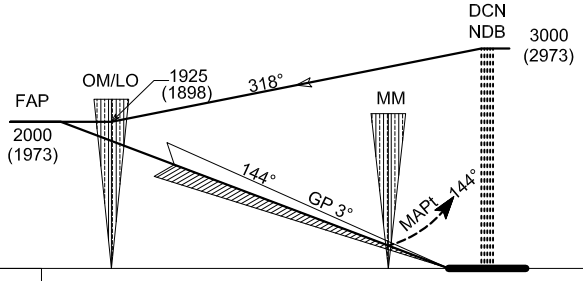
ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
NDB/ILS RWY 14



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT



ILS RDH 52ft

MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 144° CONTACT ATC FOR FURTHER INSTRUSTION

MET MINIMA
FULL:800m, RVR-600m
ALS OUT :- 1400m
GP OUT:- 2000m(CAT A,B)
& 2800m (CAT C,D,E)

7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 NM

CATEGORY ACFT		A	B	C	D
O C A	Full	230	240	250	261
	GP out	350	350	350	350

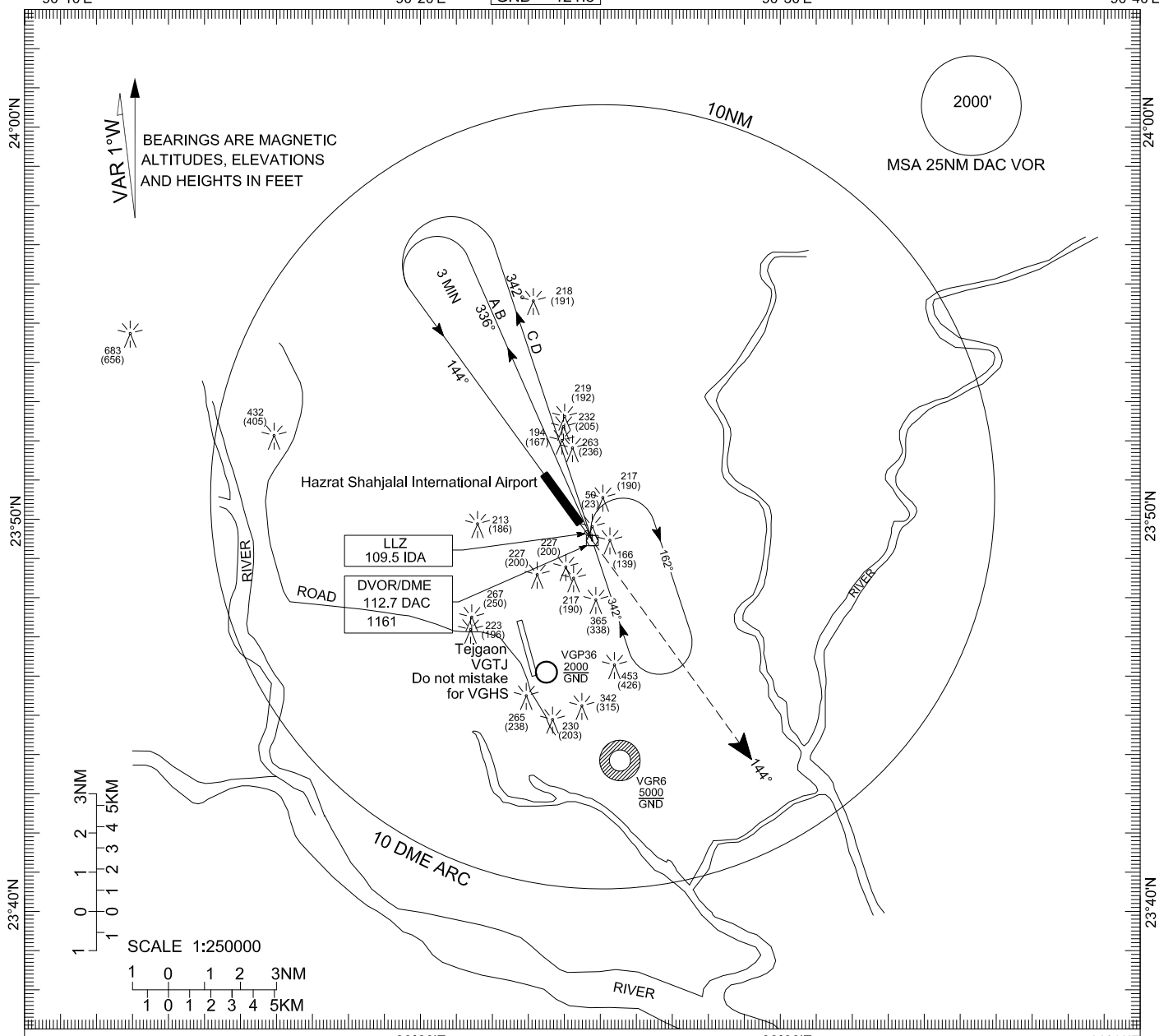
CAT		A	B	C	D
SPEED	Knots	90	120	150	180
Rate of desnt/GP	Ft/min	480	635	795	955
OM to THR 14 5.8 NM	Minits	2:52	2:54	2:19	1:56

INSTRUMENT
APPROACH CHART
CHART-ICAO

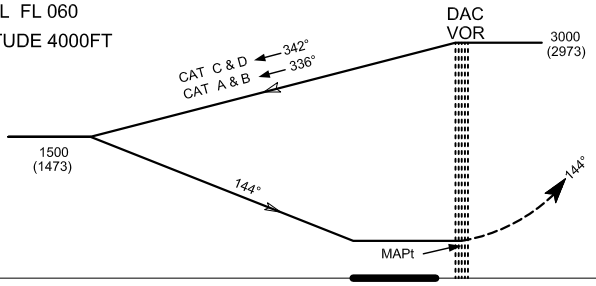
ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR RWY 14



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT



MISSED APPROACH
CLIMB TO 2000FT/610M ON
TRACK 144° CONTACT ATC
FOR FURTHER INSTRUSTION

MET MINIMA	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8 NM
VIS 2800m																

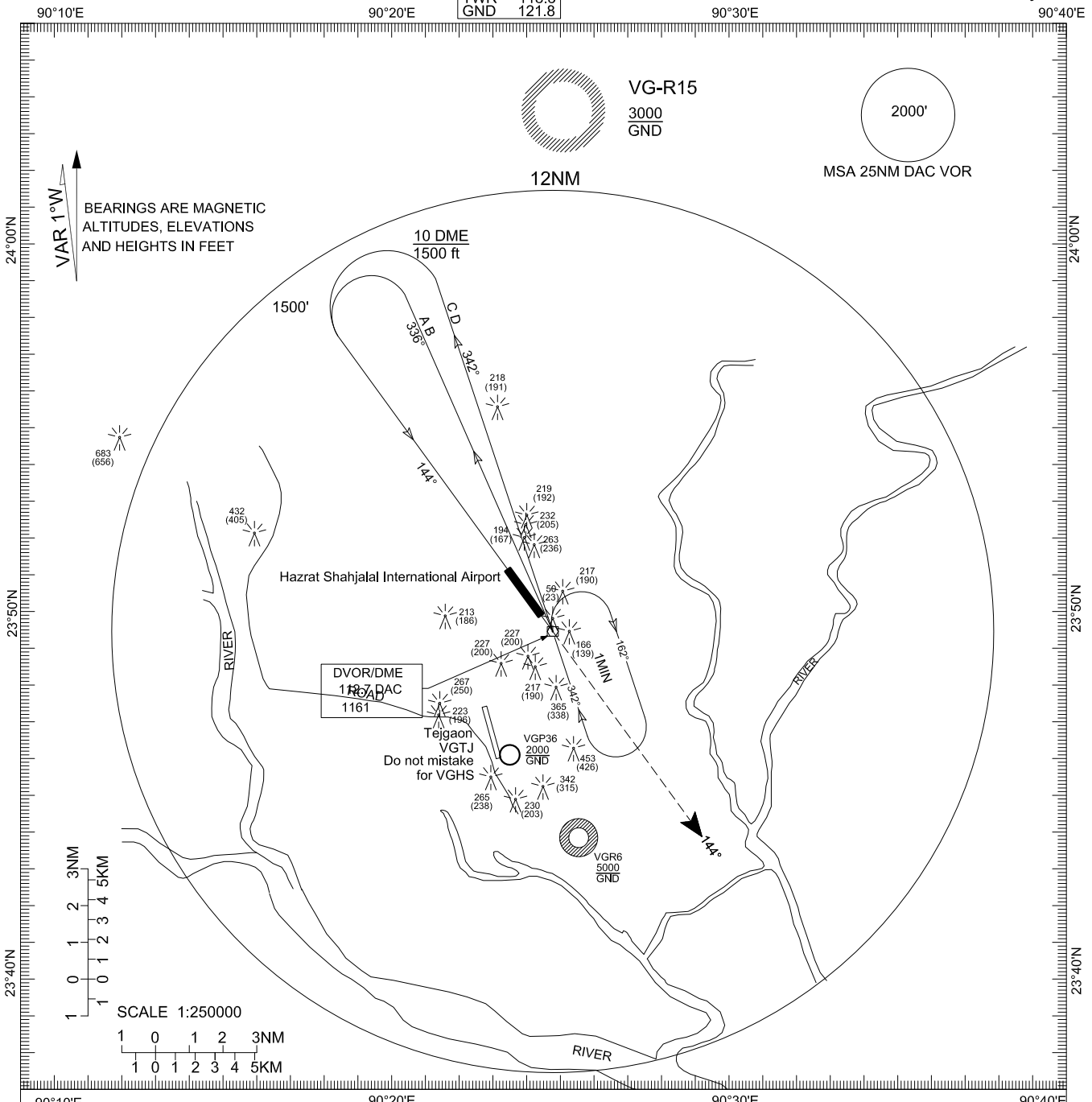
CATEGORY OF ACFT	A	B	C	D
OCA	470	470	470	470

INSTRUMENT
APPROACH CHART
CHART-ICAO

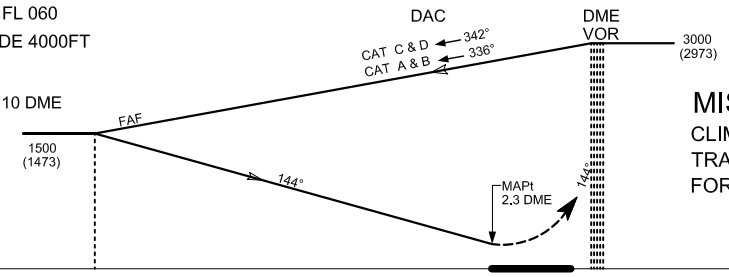
ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME Rwy 14



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT



MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 144°, CONTACT ATC FOR FURTHER INSTRUSTION

MET MINIMA	7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 NM
VIS 2800m	

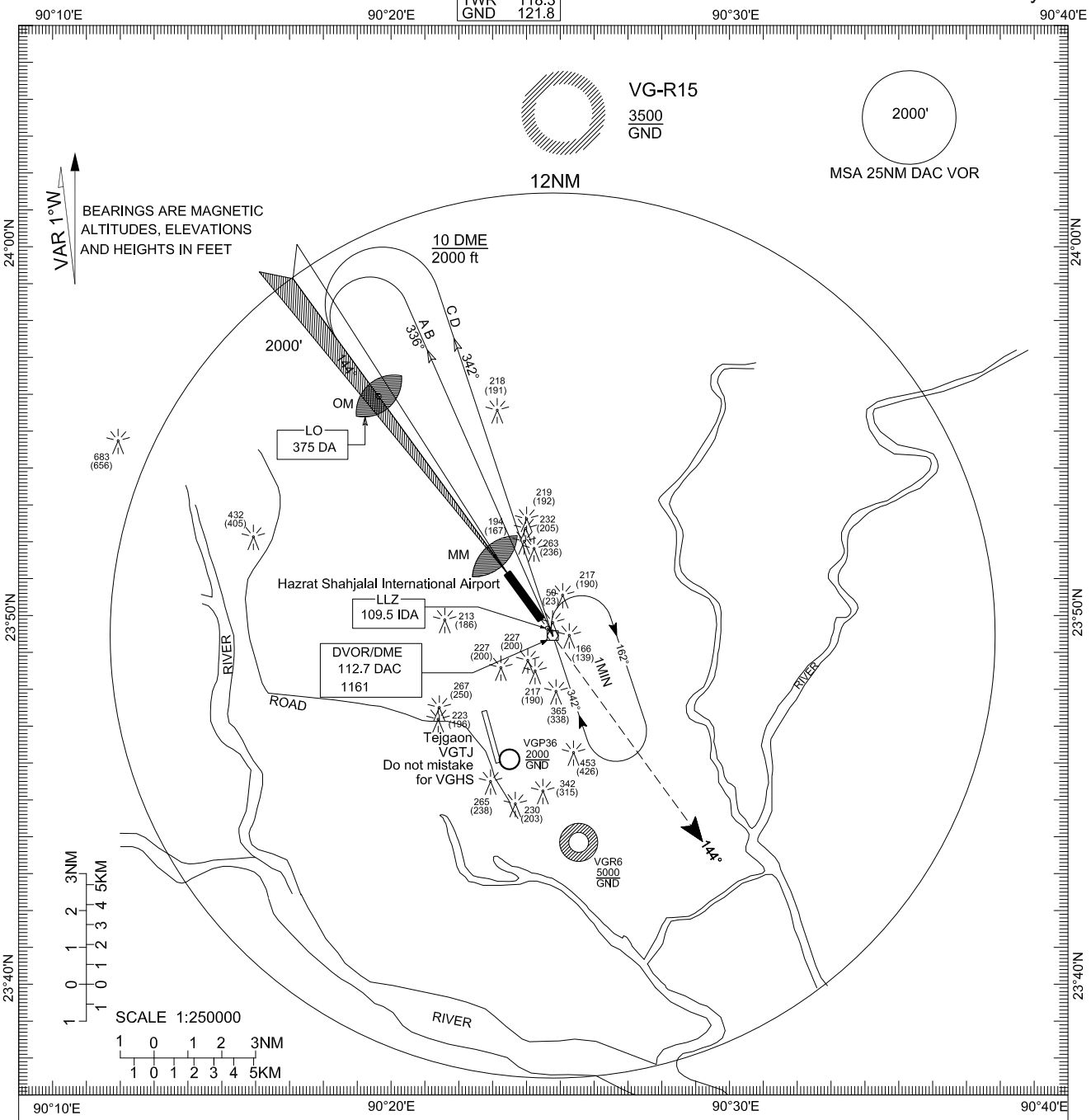
CATEGORY OF ACFT	A	B	C	D
OCA	430	430	430	430

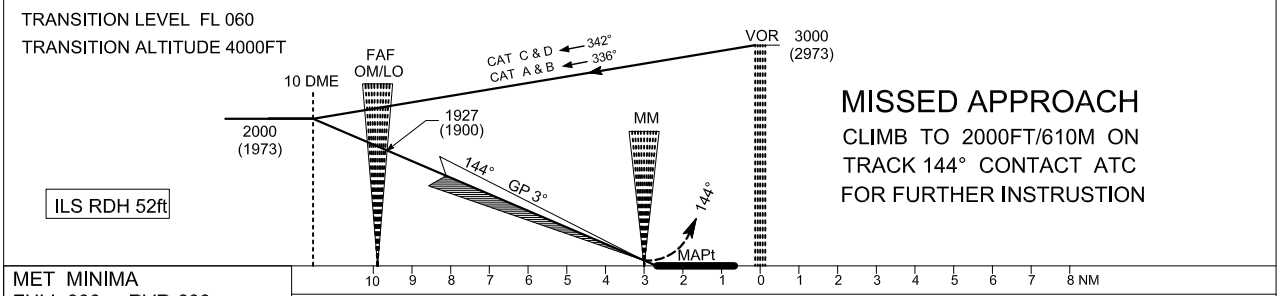
INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR DME ILS Rwy 14





MISSED APPROACH

CLIMB TO 2000FT/610M ON
TRACK 144° CONTACT ATC
FOR FURTHER INSTRUSTION

MET MINIMA
FULL:800m, RVR-600m
ALS OUT :- 1400m
GP OUT:- 2000m(CAT A,B)
& 2800m (CAT C,D,E)

CATEGORY ACFT		A	B	C	D
O C A	Full	230	240	250	261
	GP out	350	350	350	350

CAT		A	B	C	D
SPEED	Knots	90	120	150	180
Rate of desnt/GP	Ft/min	480	635	795	955
OM to THR 14 5.8 NM	Minits	3:52	2:54	2:19	1:56

INSTRUMENT APPROACH CHART-ICAO

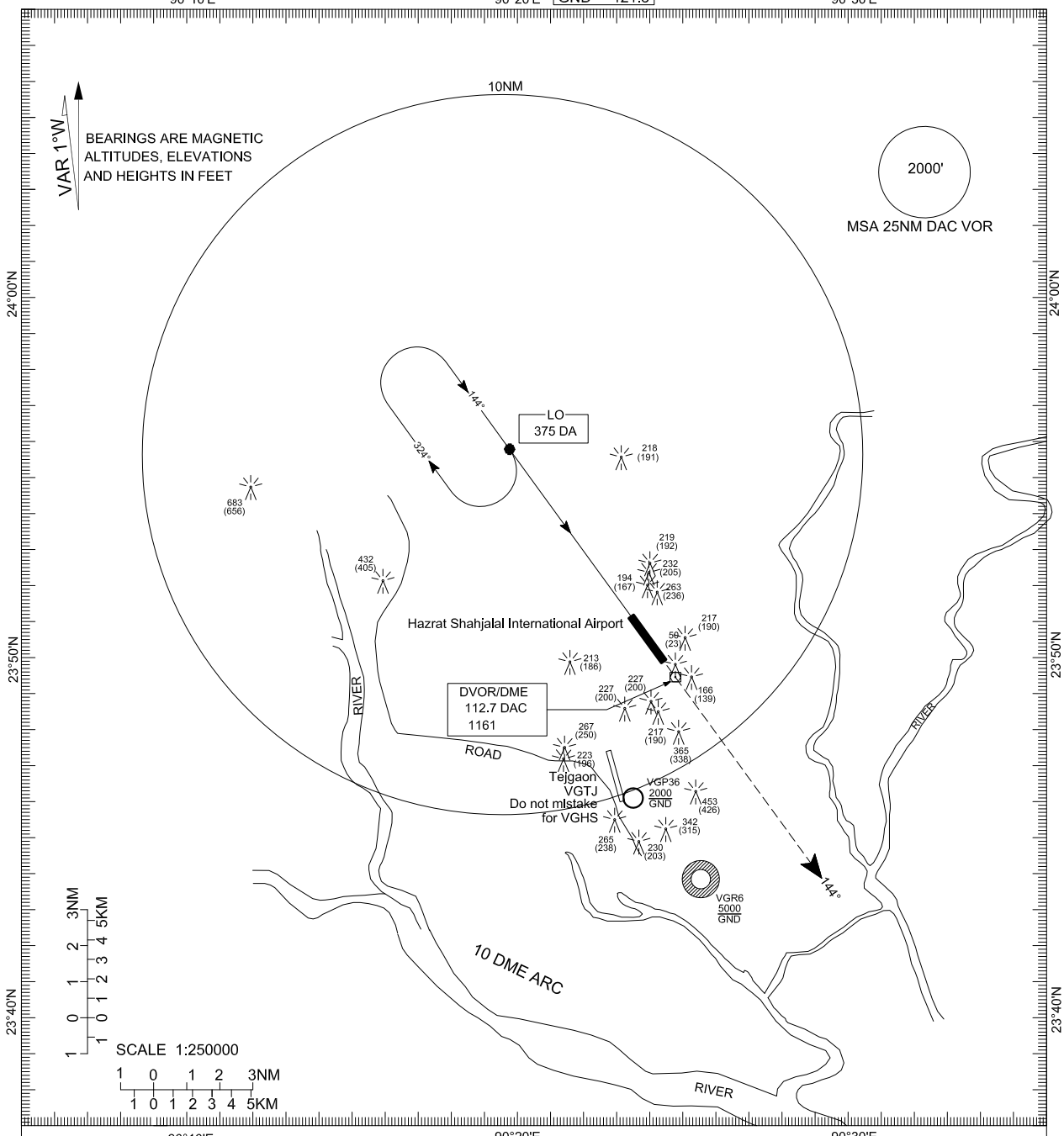
ELEV 27 FT
HEIGHTS RELATED TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

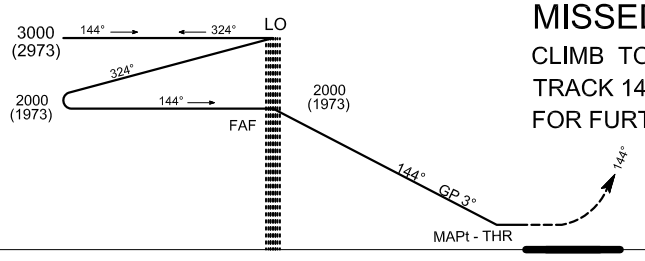
DHAKA, BANGLADESH

HAZRAT SHAHJALAL INTERNATIONAL AIRPORT

DA LOCATOR Rwy 14



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT



MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 144° CONTACT ATC FOR FURTHER INSTRUSTION

MET MINIMA
VIS 2800m

7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10NM

CATEGORY ACFT	A	B	C	D
O C A	350	350	350	350

CAT	A	B	C	D	E
GS(KT)	70	90	120	150	180
RATE OF DES PER MIN	400	513	689	869	1036
LO TO TRR 14 5.8 NM(MIN)	5	3.9	2.9	2.3	1.93

INSTRUMENT APPROACH CHART-ICAO

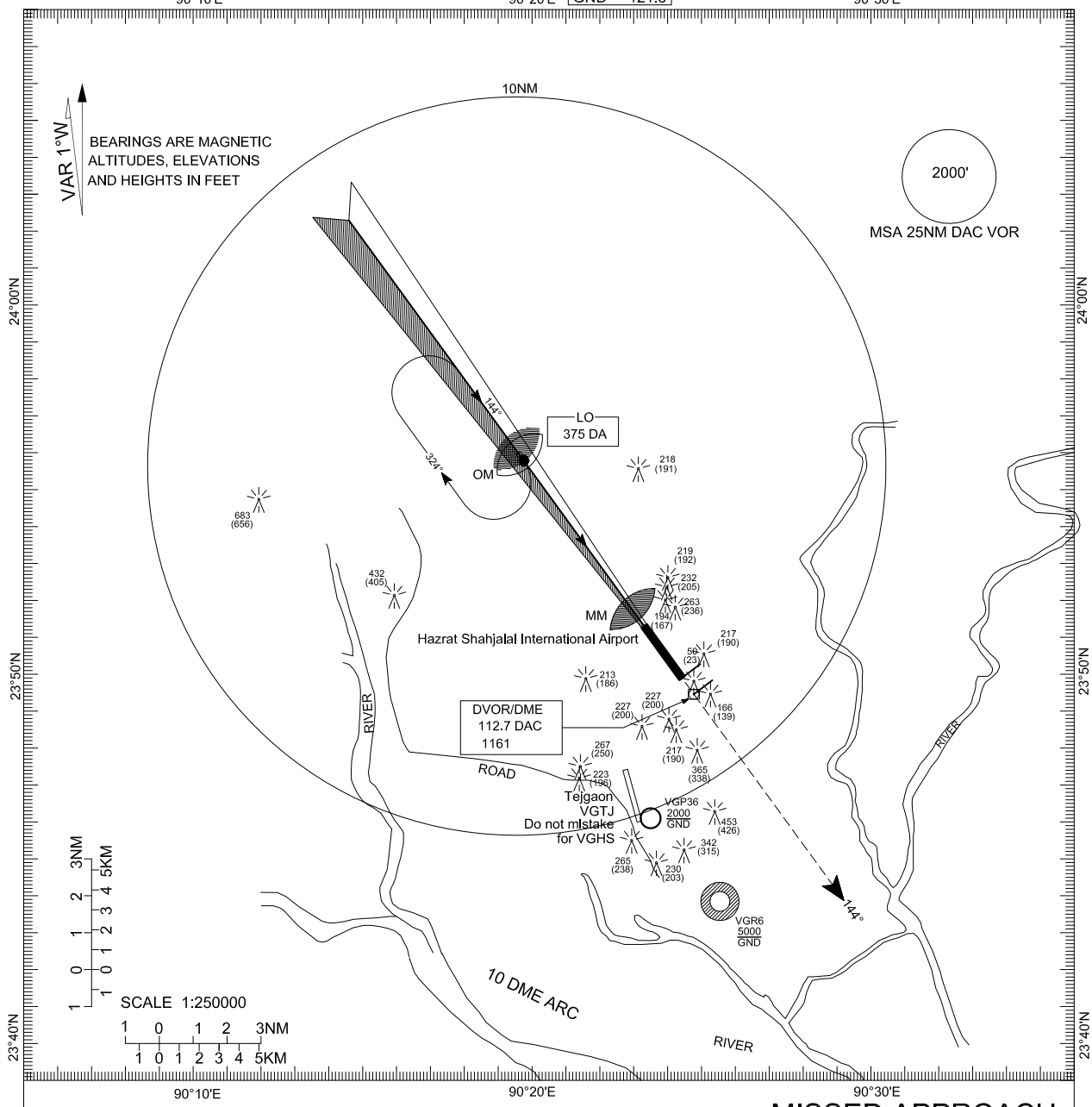
ELEV 27 FT
HEIGHTS RELATED TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH

HAZRAT SHAHJALAL INTERNATIONAL AIRPORT

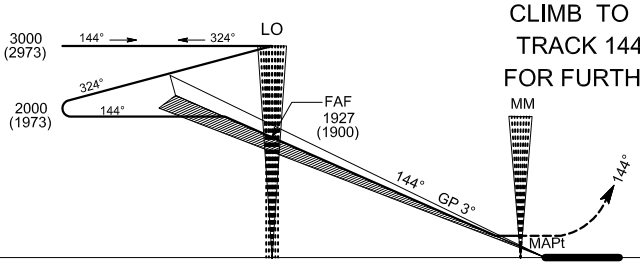
DA/ILS Rwy 14



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 144° CONTACT ATC FOR FURTHER INSTRUSTION



ILS RDH 52ft

MET MINIMA
FULL:800m, RVR-600m
ALS OUT :- 1400m
GP OUT:- 2000m(CAT A,B)
& 2800m (CAT C,D,E)

7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 NM

CATEGORY ACFT		A	B	C	D
O C A	Full	230	240	250	261
	GP out	350	350	350	350

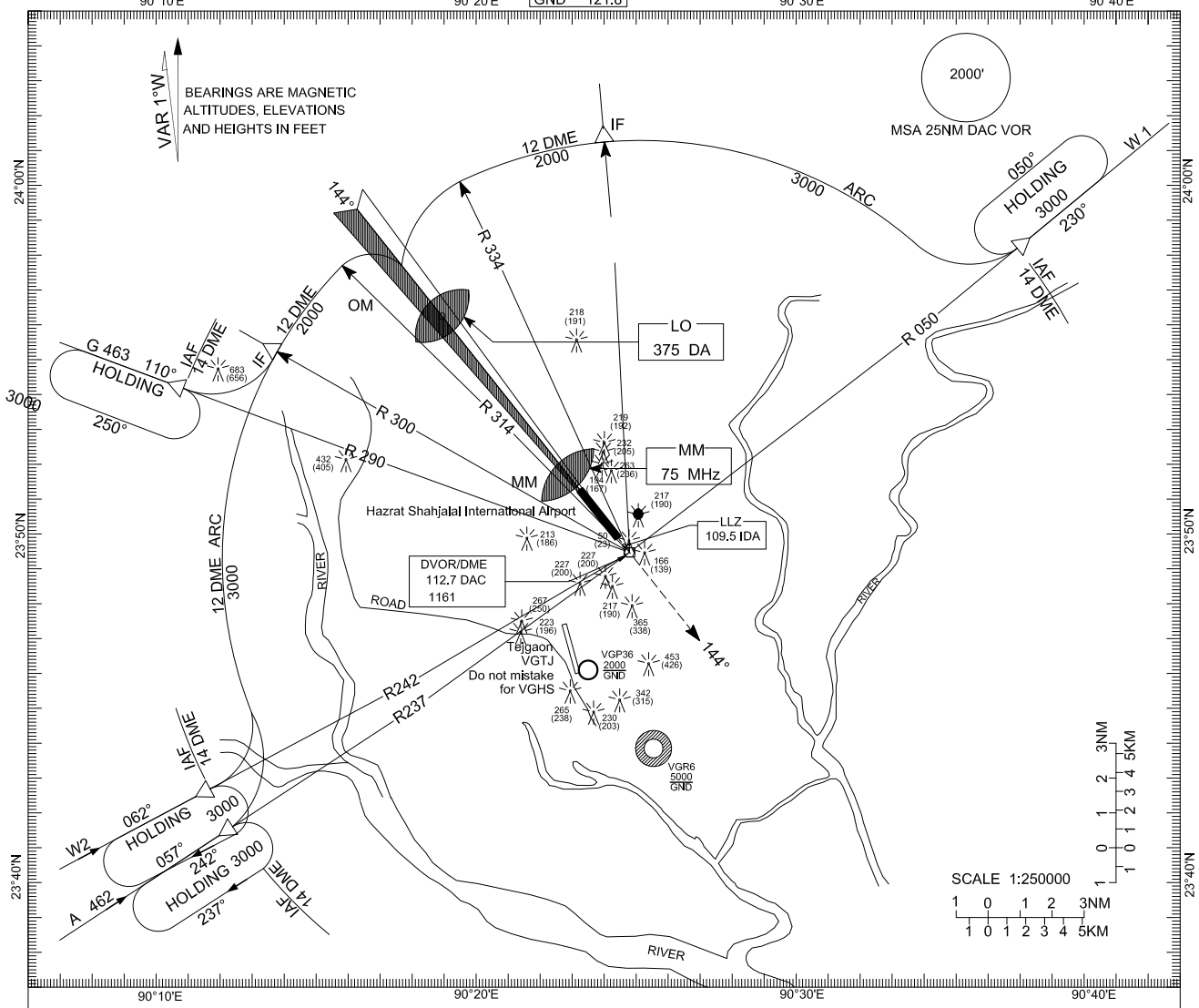
CAT		A	B	C	D
SPEED	Knots	90	120	150	180
Rate of desnt/GP	Ft/min	480	635	795	955
OM to THR 14 5.8 NM	Minits	3:52	2:54	2:19	1:56

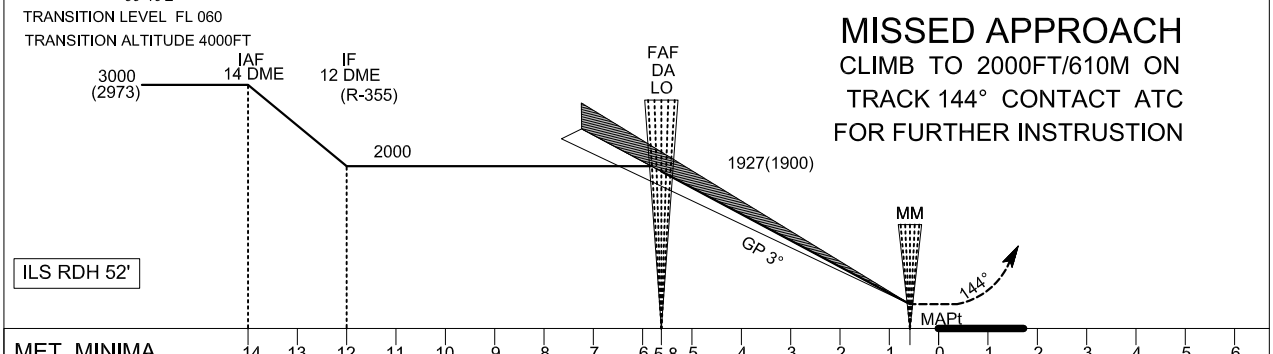
INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR DME-ARC ILS Rwy 14





MISSED APPROACH

CLIMB TO 2000FT/610M ON
TRACK 144° CONTACT ATC
FOR FURTHER INSTRUSTION

MET MINIMA
FULL:800m, RVR-600m
ALS OUT :- 1400m
GP OUT:- 2000m(CAT A,B)
& 2800m (CAT C,D,E)

CATEGORY ACFT			A	B	C	D
OCA		Full	230	242	250	261
		GP out	350	350	350	350
DISTANCE	8DME	7DME	6DME	5DME	4DME	3DME
ALTITUDE	1925	1605	1290	970	650	330
(HEIGHT)	(1900)	(1580)	(1265)	(945)	(625)	(305)

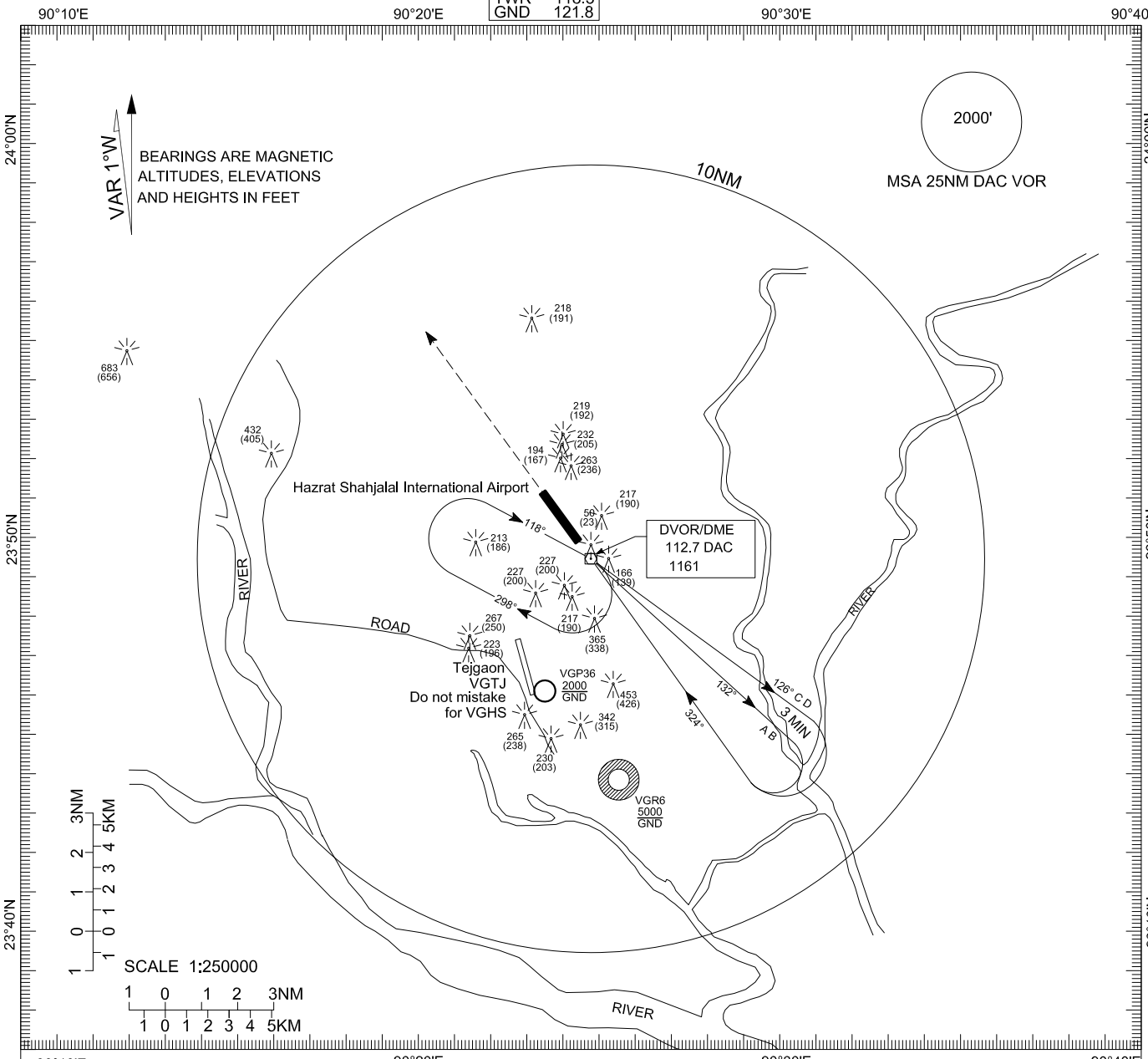
CAT		A	B	C	D
SPEED	Knots	90	120	150	180
Rate of descent/GS	Ft/min	480	635	795	955
OM TO THR14 5.8 NM	Minits	3:52	2:54	2:19	1:56

INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

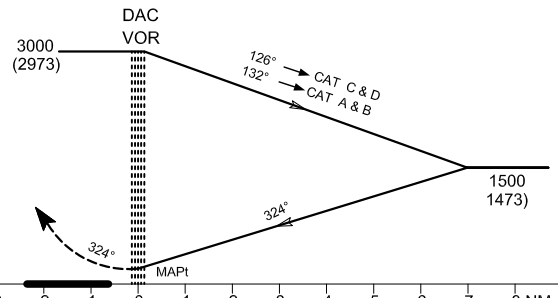
DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR RWY 32



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON
TRACK 324° CONTACT ATC
FOR FURTHER INSTRUSTION



MET MINIMA	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8 NM
VIS 2800m																

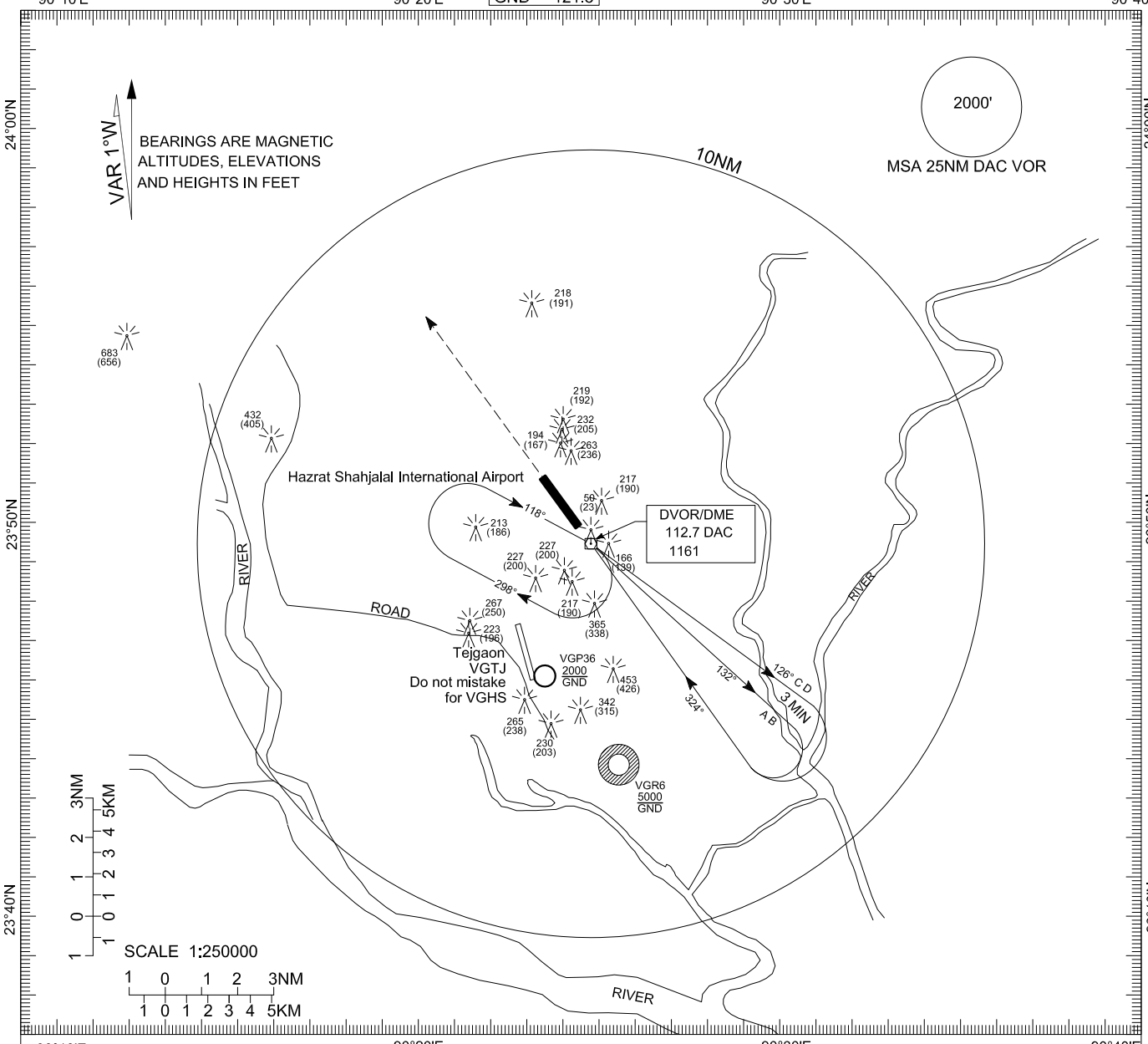
CATEGORY OF ACFT	A	B	C	D
OCA	680	680	680	680

INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

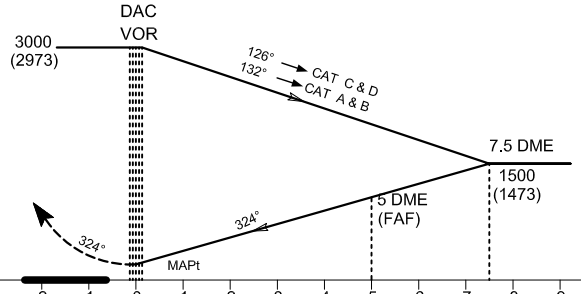
DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME (1) RWY 32



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON
TRACK 324° CONTACT ATC
FOR FURTHER INSTRUSTION



ELEVATION 27FT

MET MINIMA	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9	10 NM
VIS 2800m																		

CATEGORY OF ACFT		A	B	C	D
OCA		480	480	480	480

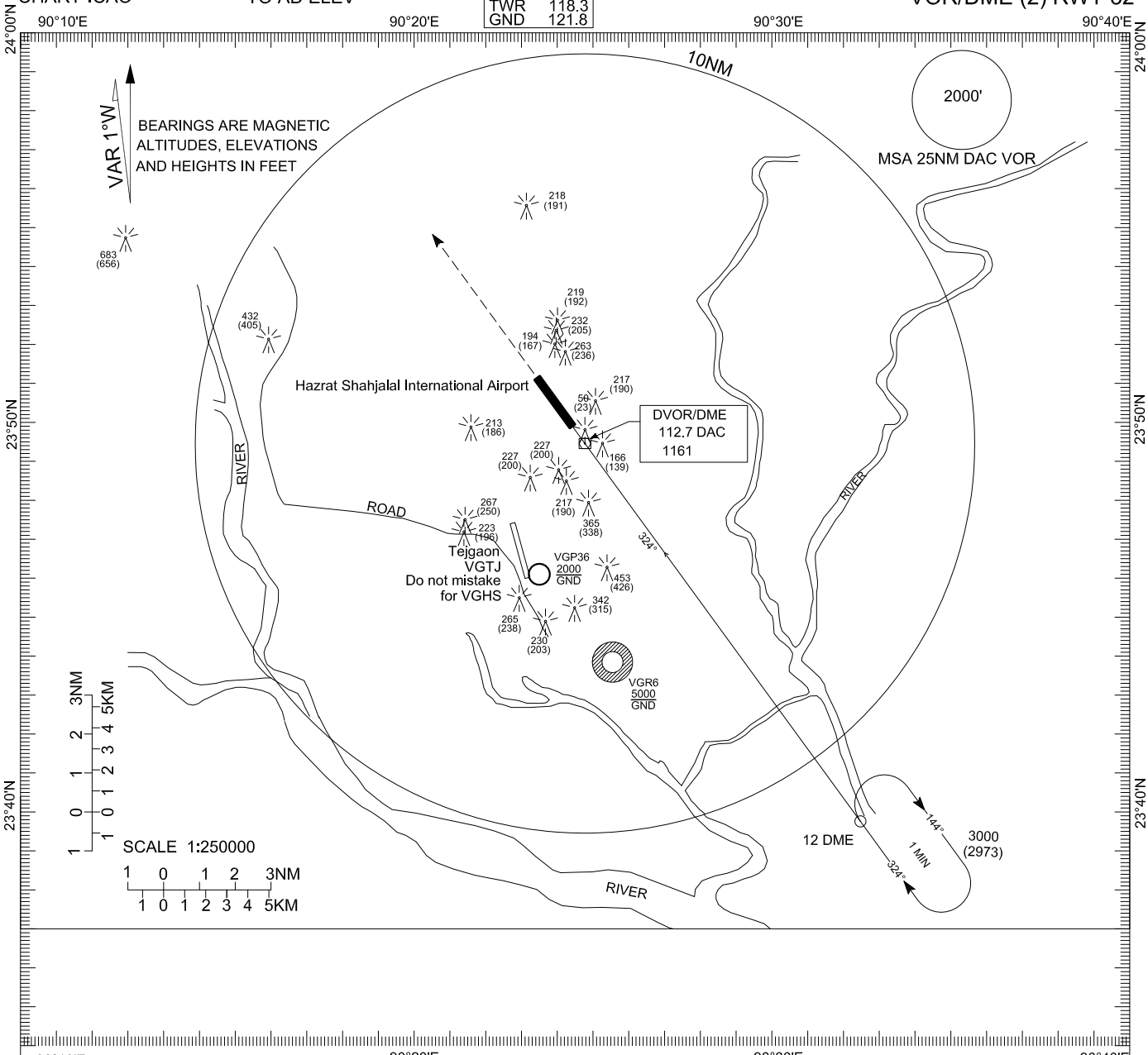
CAT	A	B	C	D	
GS (KT)	70	90	120	150	180
RD/NM	188	188	188	188	188

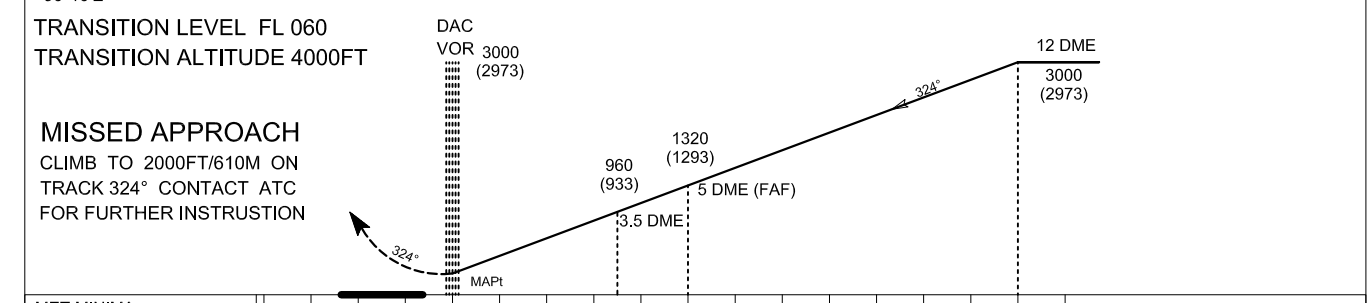
INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME (2) RWY 32





MET MINIMA	
VIS 2800m	

CATEGORY OF ACFT		A	B	C	D
OCA		480	480	480	480

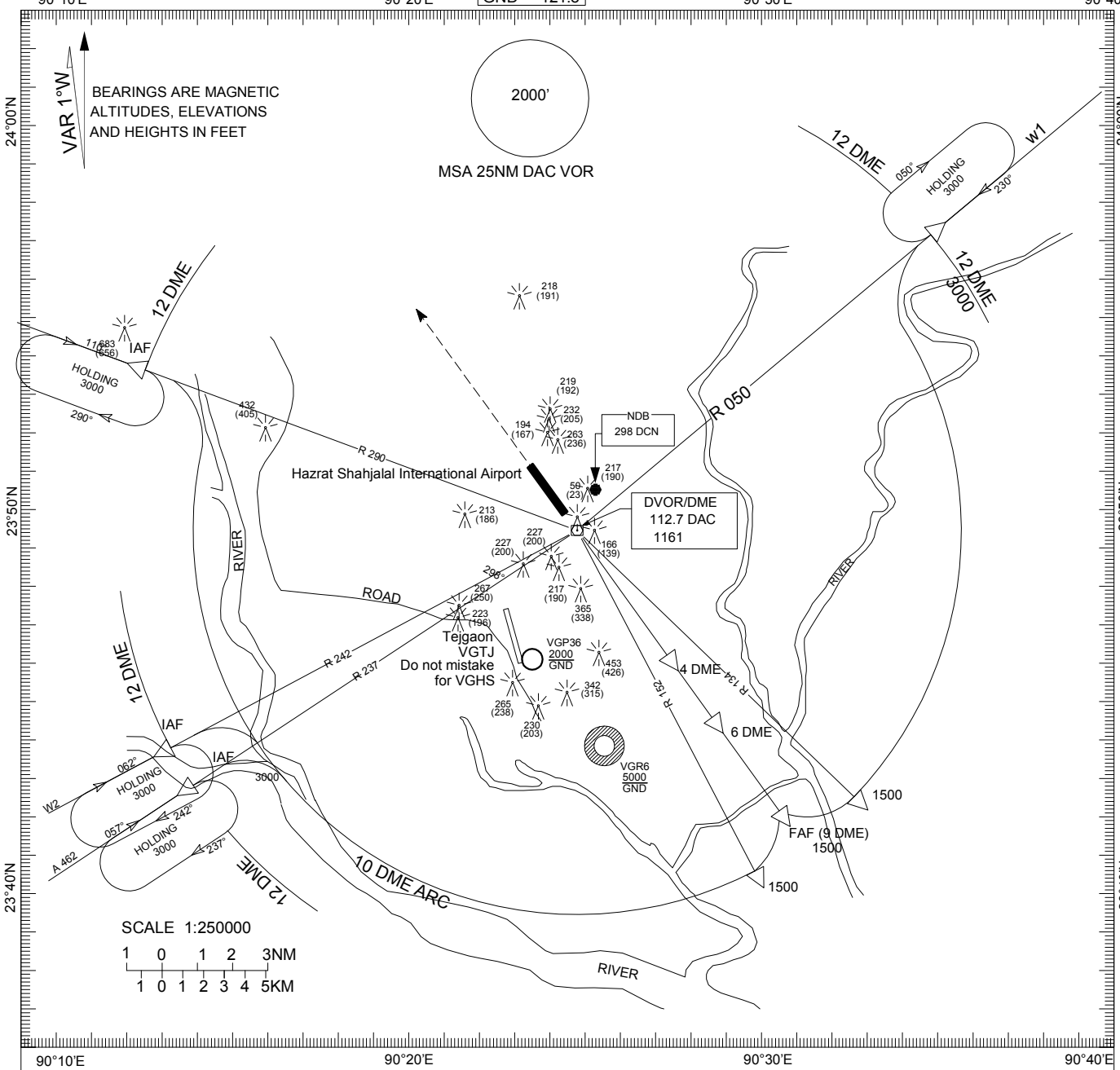
CAT	A	B	C	D	
GS (KT)	70	90	120	150	180
RD/NM	240	240	240	240	240

INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

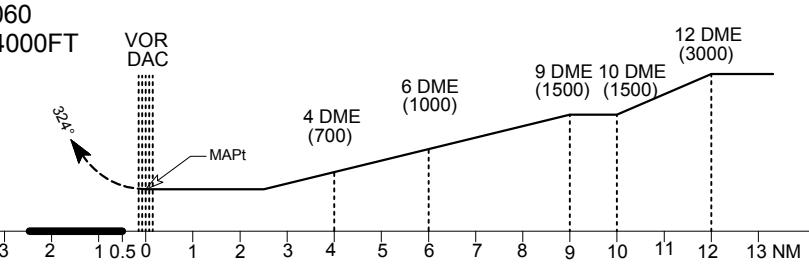
DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME-ARC RWY 32



TRANSITION LEVEL FL 060
TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON
TRACK 324° CONTACT ATC
FOR FURTHER INSTRUSTION



MET MINIMA
VIS 2800m

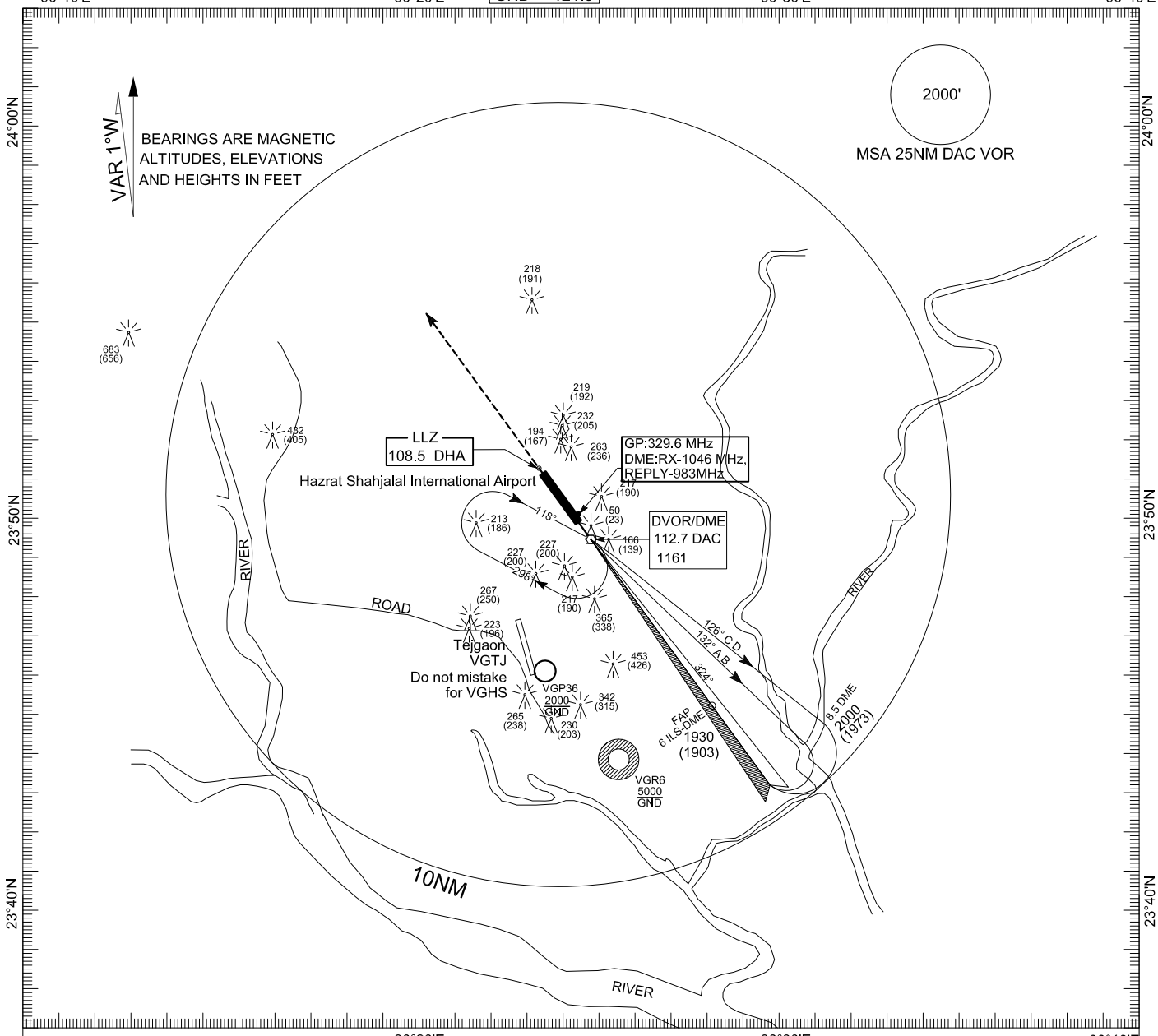
CATEGORY OF ACFT	A	B	C	D
OCA	480	480	480	480

INSTRUMENT APPROACH CHART - ICAO

ELEV 27 FT
HEIGHTS RELATED TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME/ILS(1) RWY 32

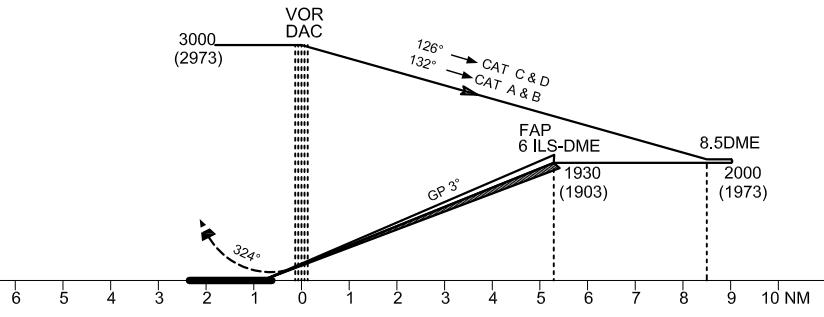


TRANSITION LEVEL FL 060

TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 324°
TURN LEFT TO `DAC' AND CONTACT ATC
FOR FURTHER INSTRUCTION



CATEGORY OF ACFT		A	B	C	D
OCA(OCH)	FULL	300 (270)	310 (280)	320 (290)	330 (300)
	GP OUT	350	350	350	350

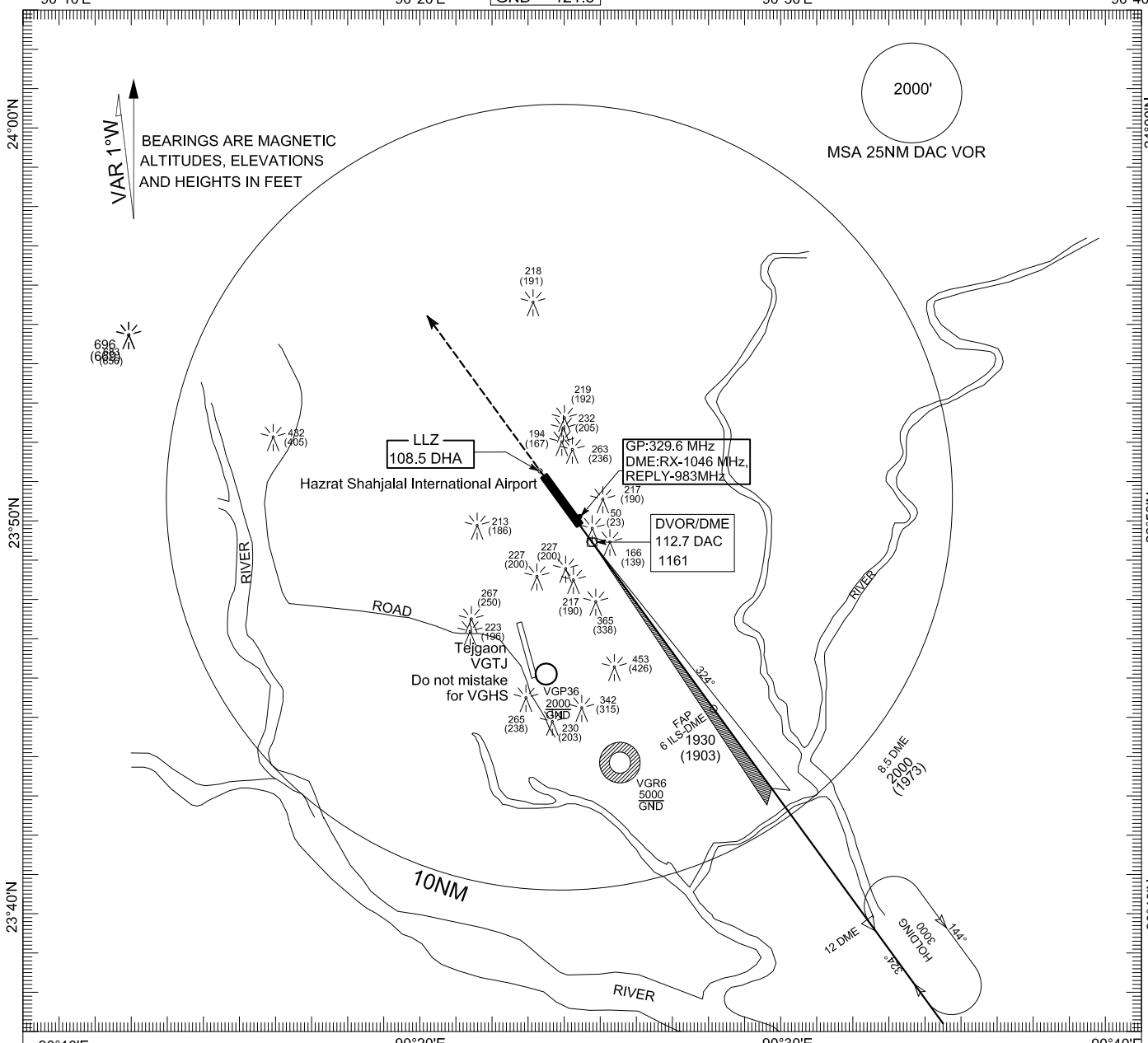
CAT		A	B	C	D
SPEED	KNOTS	90	120	150	180
RATE OF DESCENT	FT/MIN	480	635	795	955
MET MINIMA (m)	FULL	VIS: 800m, RVR: 600m			
	ALS OUT	VIS: 1400m			
	GP OUT	2000m(CAT A,B) & 2800m(CAT C,D)			

INSTRUMENT APPROACH CHART - ICAO

ELEV 27 FT
HEIGHTS RELATED TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME/ILS(2) RWY 32

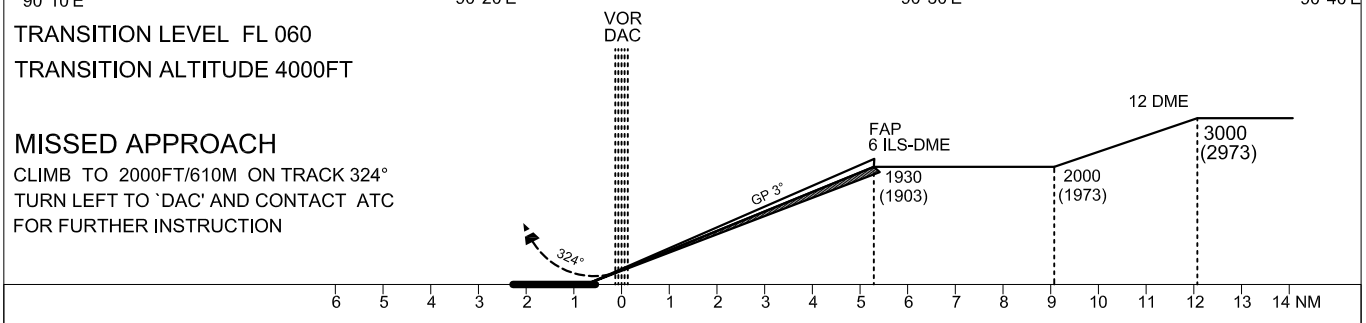


TRANSITION LEVEL FL 060

TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 324°
TURN LEFT TO `DAC' AND CONTACT ATC
FOR FURTHER INSTRUCTION



CATEGORY OF ACFT		A	B	C	D
OCA(OCH)	FULL	300 (270)	310 (280)	320 (290)	330 (300)
	GP OUT	350	350	350	350

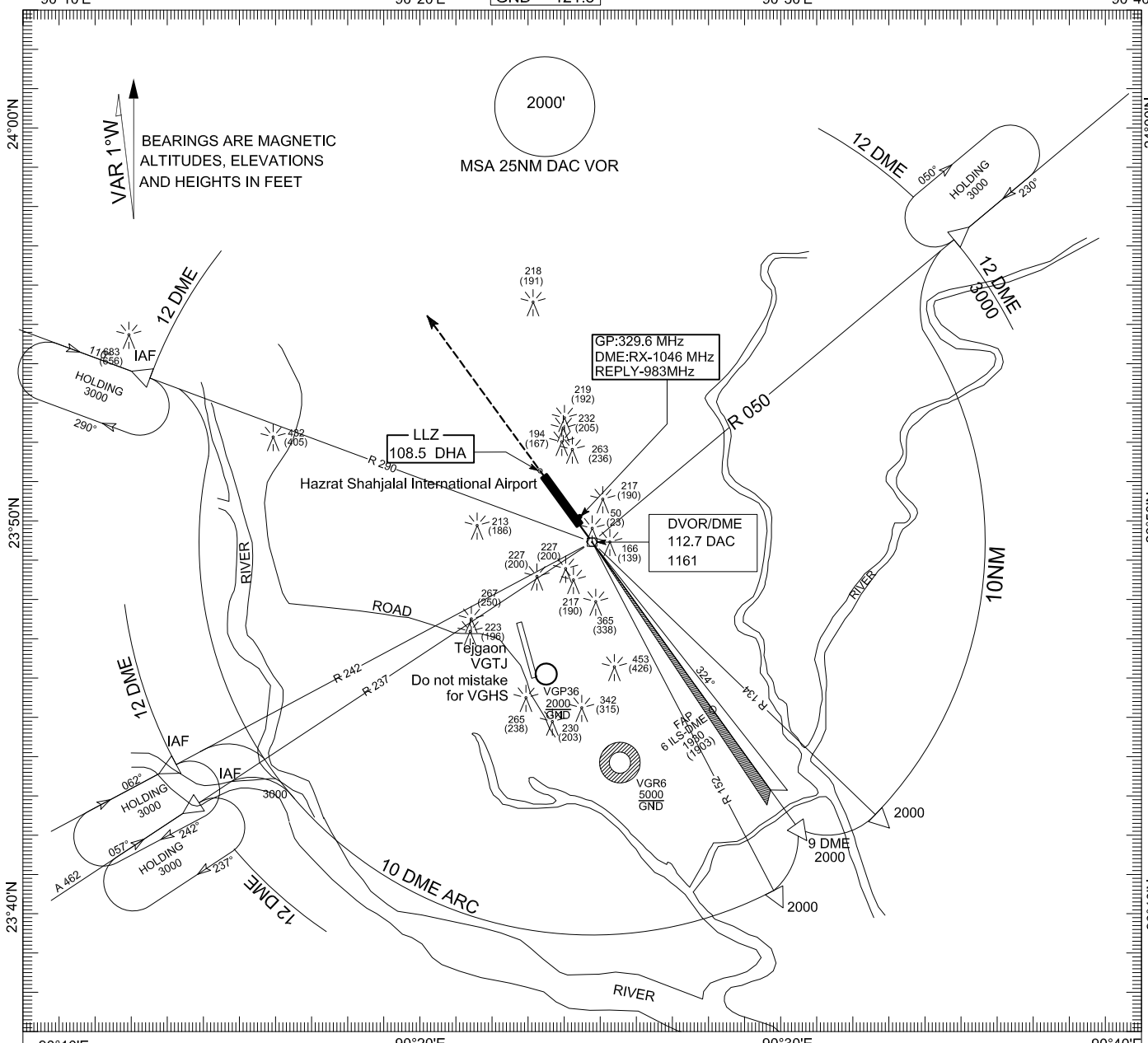
CAT		A	B	C	D
SPEED	KNOTS	90	120	150	180
RATE OF DESCENT	FT/MIN	480	635	795	955
MET MINIMA (m)	FULL	VIS: 800m, RVR: 600m			
	ALS OUT	VIS: 1400m			
	GP OUT	2000m(CAT A,B) & 2800m(CAT C,D)			

INSTRUMENT
APPROACH CHART
CHART-ICAO

ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

DHAKA, BANGLADESH
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
VOR/DME-ARC/ILS RWY 32

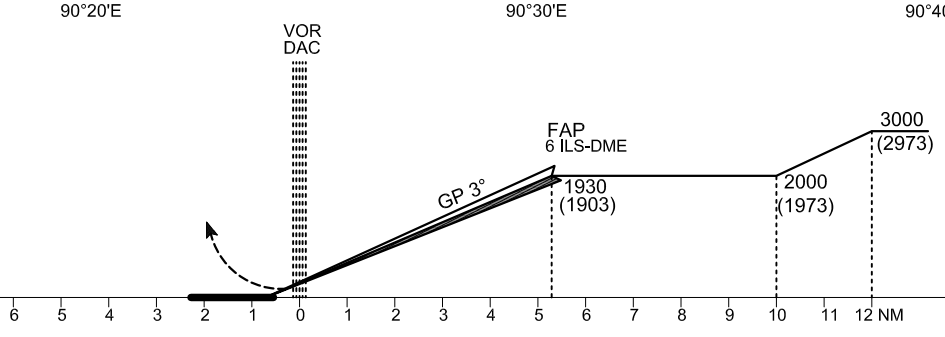


TRANSITION LEVEL FL 060

TRANSITION ALTITUDE 4000FT

MISSED APPROACH

CLIMB TO 2000FT/610M ON TRACK 324°
TURN LEFT TO `DAC' AND CONTACT ATC
FOR FURTHER INSTRUCTION



CATEGORY OF ACFT		A	B	C	D
OCA(OCH)	FULL	300 (270)	310 (280)	320 (290)	330 (300)
	GP OUT	350	350	350	350

CAT		A	B	C	D
SPEED	KNOTS	90	120	150	180
RATE OF DESCENT	FT/MIN	480	635	795	955
MET MINIMA (m)	FULL	VIS: 800m, RVR: 600m			
	ALS OUT	VIS: 1400m			
	GP OUT	2000m(CAT A,B) & 2800m(CAT C,D)			

INSTRUMENT
APPROACH
CHART - ICAO

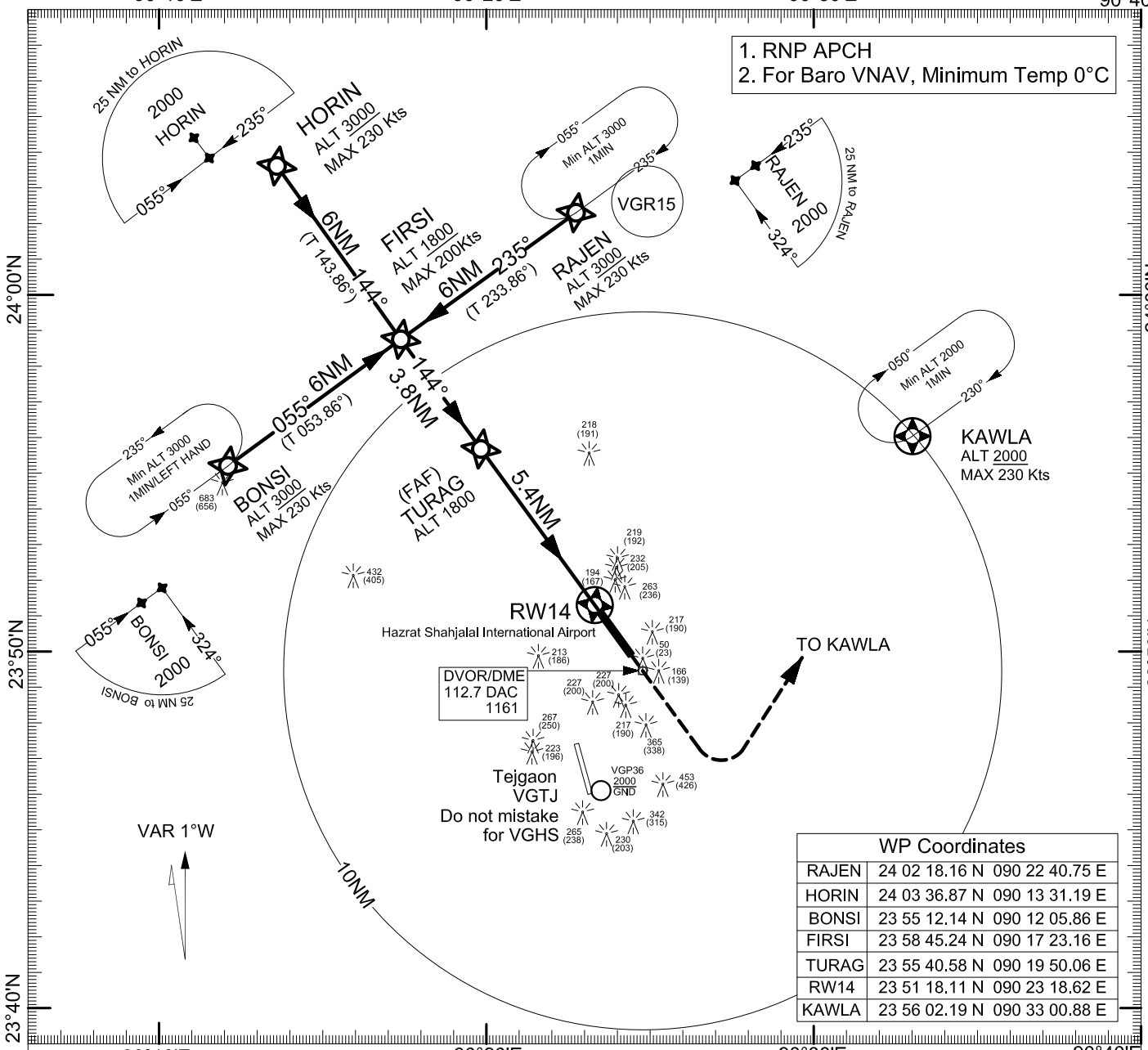
ELEV 27 FT
HEIGHTS RELATED
TO AD ELEV

ATIS	127.4
ACC(U)	125.7
ACC(L)	126.7
APP	121.3
TWR	118.3
GND	121.8

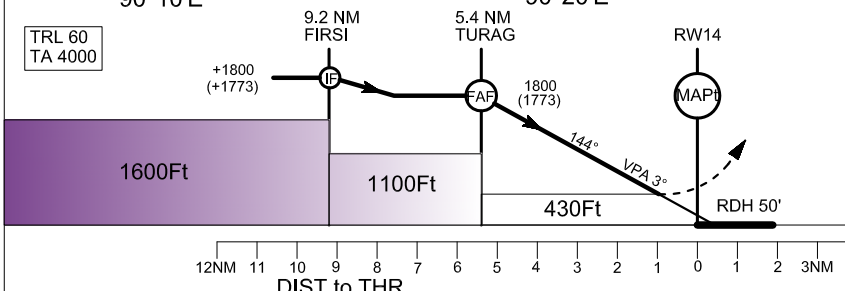
DHAKA, BANGLADESH

HAZRAT SHAHJALAL INTERNATIONAL AIRPORT

RNAV(GNSS) RWY14



WP Coordinates	
RAJEN	24 02 18.16 N 090 22 40.75 E
HORIN	24 03 36.87 N 090 13 31.19 E
BONSI	23 55 12.14 N 090 12 05.86 E
FIRSI	23 58 45.24 N 090 17 23.16 E
TURAG	23 55 40.58 N 090 19 50.06 E
RW14	23 51 18.11 N 090 23 18.62 E
KAWLA	23 56 02.19 N 090 33 00.88 E



MISSED APPROACH
NO TURN BEFORE MAPt
CLIMB STRAIGHT TO 2000ft THEN TURN LEFT TO KAWLA TO JOIN HOLDING AT 2000ft OR AS DIRECTED BY ATC

Type of Approach	Item	A	B	C	D
LNAV	OCA(OCH)	430 (400)			
LNAV / VNAV	OCA(OCH)	330 (300)			

Type of Approach	Visibility Minima (m)		
	FALS	BALS	NALS
LNAV	1300	1800	2000
LNAV / VNAV	800	1300	1500

Coding Table

Designator : RNAV (GNSS) RWY14

Waypoint Name (FIX)	Path Terminator	Fly-over	Course °M (°T)	Turn Direction	Altitude constraint (ft)	Speed constraint (IAS/kt)	Vertical path angle (°)	RNP value
RAJEN (IAF)	IF	-			+ 3000	230	-	1
FIRSI (IF)	TF	-	235° (233.86°)	L	+ 1800	200	-	1
HORIN (IAF)	IF	-			+ 3000	230	-	1
FIRSI (IF)	TF	-	144° (143.86°)		+ 1800	200	-	1
BONSI (IAF)	IF	-			+ 3000	230	-	1
FIRSI (IF)	TF	-	055° (053.86°)	R	+ 1800	200	-	1
TURAG (FAF)	TF	-	144° (143.86°)		1800	185	3	0.3
RW14 (MAPt)	TF	Y	144° (143.86°)		+ 430	-	3	0.3
	FA	-	144° (143.86°)	L	+2000	230	3	0.3
KAWLA (MAHF)	DF	Y	-		+ 2000	230	-	-

Coordinates of WP

WP (FIX)	Coordinate of WP
RAJEN (IAF)	24 02 18.16 N 090 22 40.75 E
HORIN (IAF)	24 03 36.87 N 090 13 31.19 E
BONSI (IAF)	23 55 12.14 N 090 12 05.86 E
FIRSI (IF)	23 58 45.24 N 090 17 23.16 E
TURAG (FAF)	23 55 40.58 N 090 19 50.06 E
RW14 (MAPt)	23 51 18.11 N 090 23 18.62 E
KAWLA (MAHF)	23 56 02.19 N 090 33 00.88 E

Missed approach (text description):

NO TURN BEFORE MAPt

CLIMB STRAIGHT TO 2000 Ft THEN TURN LEFT TO KAWLA TO JOIN HOLDING
AT 2000 Ft OR AS DIRECTED BY ATC