

List of pages in this Trip Kit

Trip Kit Index

Airport Information For EGPF

Terminal Charts For EGPF

Revision Letter For Cycle 13-2014

Change Notices

Notebook

General Information

Location: Glasgow Gbr
IATA Code: GLA
Lat/Long: N55° 52.3' W004° 26.0'
Elevation: 26 ft

Airport Use: Public
Magnetic Variation: 3.4°W

Fuel Types: 100 Octane (LL), Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: No
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No

Sunrise: 0332 Z
Sunset: 2107 Z,

Runway Information

Runway: 05
Length x Width: 8743 ft x 151 ft
Surface Type: asphalt
TDZ-Elev: 26 ft
Lighting: Edge, ALS, Centerline, TDZ

Runway: 23
Length x Width: 8743 ft x 151 ft
Surface Type: asphalt
TDZ-Elev: 21 ft
Lighting: Edge, ALS, Centerline, TDZ
Displaced Threshold: 1003 ft
Stopway: 493 ft

Communication Information

ATIS 129.575
Glasgow Ground Tower 121.7
Glasgow Tower 118.8
Glasgow Approach Control 119.1
Glasgow Radar 128.75
Glasgow Radar 125.25
Glasgow Radar 119.1

1. GENERAL

1.1. ATIS

ATIS 129.57

1.2. NOISE ABATEMENT PROCEDURES

1.2.1. GENERAL

The following procedures may at any time be departed from to the extent necessary for avoiding immediate danger or for complying with ATC instructions. Every operator of ACFT using the APT shall ensure at all times that ACFT are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the APT.

1.2.2. REVERSE THRUST

The use of reverse thrust/pitch should be avoided when possible.

1.3. LOW VISIBILITY PROCEDURES (LVP)

1.3.1. GENERAL

During Category II/III operations, LVP will be applied. Pilots will be informed when these procedures are in force via ATIS or RTF.

1.3.2. ARRIVAL

Vacate RWY 05/23 at TWY A or G, unless otherwise instructed. ATC may instruct pilots to use intermediate links when CAT II/III operations are necessary because of a low ceiling. Pilots should delay the call "Runway vacated" until the ACFT is established on the TWY and clear of the link.

Color coded alternate yellow/green TWY centerline lights installed on TWYs A, B and D thru G indicating when ACFT has cleared ILS sensitive area.

1.3.3. DEPARTURE

ATC will require departing ACFT to use CAT II/III holding positions A2 and G2 as appropriate. Intermediate take-off points will not be used.

Flashing yellow RWY guard lights installed on TWYs A and G indicating CAT II/III holding positions when taxiing for take-off.

1.4. PARKING INFORMATION

Nose-in parking is in operation on all aprons except GA area and cargo stands, which are marshalled.

All nose-in stands have stand number, yellow centerline and guidance in the form of either Visual Guidance Docking System or AGNIS and ground stop arrow.

On stands 14 thru 30R and 32 thru 39 visual docking guidance system SAFEDOCK available.

On stands 1 thru 5, 8 thru 12, 31 and 64 thru 82 AGNIS and ground stop arrow available.

Illumination of stand entry should indicate that a safety check of the stand has been made by handling agent prior to ACFT arrival. Pilots should not enter an ACFT stand unless the stand entry guidance system is illuminated or a marshaller has signalled clearance to proceed.

1.5. OTHER INFORMATION

WARNING: Birds in vicinity of APT.

2. ARRIVAL

2.1. NOISE ABATEMENT PROCEDURES

All ACFT shall, after take-off or "go around" be operated in such a way that it will not cause more than 94 dB(A) at daytime (0600-2330LT) or 87 dB(A) at nighttime (2330-0600LT).

From 1 April - 30 September no jet ACFT will take-off or land between 2330-0600LT without the prior approval of the Managing Director, Glasgow Airport Ltd, through its agent, Airport Co-ordination Ltd, to ensure that the take-off or landing is within the totals determined by Glasgow APT, from time to time.

RWY 23:

ACFT using the ILS shall not descend below 2030' before intercepting the GS nor thereafter fly below it unless instructed by Radar. ACFT landing without assistance from the ILS or Radar shall follow a descent path which will not result in their being at any time lower than an approach path consistent with a 3° GS.

RWY 05:

Jet ACFT using the ILS shall not descend below 2030' before intercepting the GS. Propeller driven ACFT may, when instructed by Radar, be descended to 1630'. ACFT landing without assistance of ILS or Radar shall follow a descent path which will not result in their being at any time lower than an approach path consistent with a 3° GS.

VISUAL APPROACHES (RWYS 05/23)

All ACFT whose MTWA exceeds 5700 KGS must route via 5NM to RWY THR and maintain 1530' until established on final approach track.

2.2. RWY OPERATIONS

RWYs 05 and 23 approved for CATII/III operations, special aircrew and ACFT certification required.

ACFT may exit rwy 05 via A1, B1 or E1, as the turn to vacate RWY 05 via D1 and F1 is extremely sharp and would require an ACFT to make a turn of almost 180°.

ACFT may exit RWY 23 via A1, B1, D1, E1, F1 or G1. It should be noted, however, that only Code A to C ACFT are permitted to turn LEFT from B1 to A1 or RIGHT turn from A1 to B1. Code D and E ACFT shall not be permitted to carry out this manoeuvre under any circumstances.

Only ACFT up to 30 tons can exit or enter RWY via TWY C1.

3. DEPARTURE

3.1. START-UP & PUSH-BACK PROCEDURES

Aircrew can request ATC clearance up to 15 min before EOBT. Departing ACFT on first contact with ATC must state ACFT type, stand number and code letter of latest ATIS received. Crews should be in receipt of departure clearance prior to requesting push and start.

3.2. NOISE ABATEMENT PROCEDURES

Minimum noise route elements and procedures as specified below and on Glasgow SID charts are compatible with ATC requirements and shall apply in both IMC and VMC.

Minimum noise routing shall apply to jet ACFT and all other ACFT whose MTWA exceeds 5700 KGS unless otherwise instructed by ATC or deviations are required in the interest of safety.

Jet ACFT not licensed according ICAO Annex 16, VOL I, Chapter 3, Part II are not permitted to depart from Glasgow APT between 2330-0559 LT except in special circumstances. Specific written permission of the Managing Director must be obtained in advance.

Non-Standard Instrument Departures:

RWY 23:

Climb straight ahead to GOW 5 DME.

RWY 05:

Climb straight ahead to GOW 5 DME.

For ACFT departing on the SID via DCS the noise preferential route terminates at GOW 5 DME.

After take-off all ACFT whether operating from RWY 05 or 23 by day or night should expedite their climb to 1530' before reducing power to maintain a minimum rate of climb of 500' FPM until 3030'.

3.3. RWY OPERATIONS

Pilots of departing ACFT wishing to turn RIGHT from TWY A to use full length of RWY 23 should advise ATC before reaching the holding position A1.

ACFT requiring full length of RWY 23, have to back track to the end of RWY and turn within RWY extension.

ACFT should enter RWY at holding position B1 and taxi to the extension.

3.4. OTHER INFORMATION

3.4.1. DATALINK DEPARTURE CLEARANCE (DCL)

Pre-departure clearance by DCL is available for suitably equipped ACFT.

DCL is available from EOBT - 25 until EOBT + 15 min.

DCL clearances will not be issued if requested later than EOBT + 15 min. Successful clearances must be accepted within 5 min of receipt or a revert to voice message will be received.

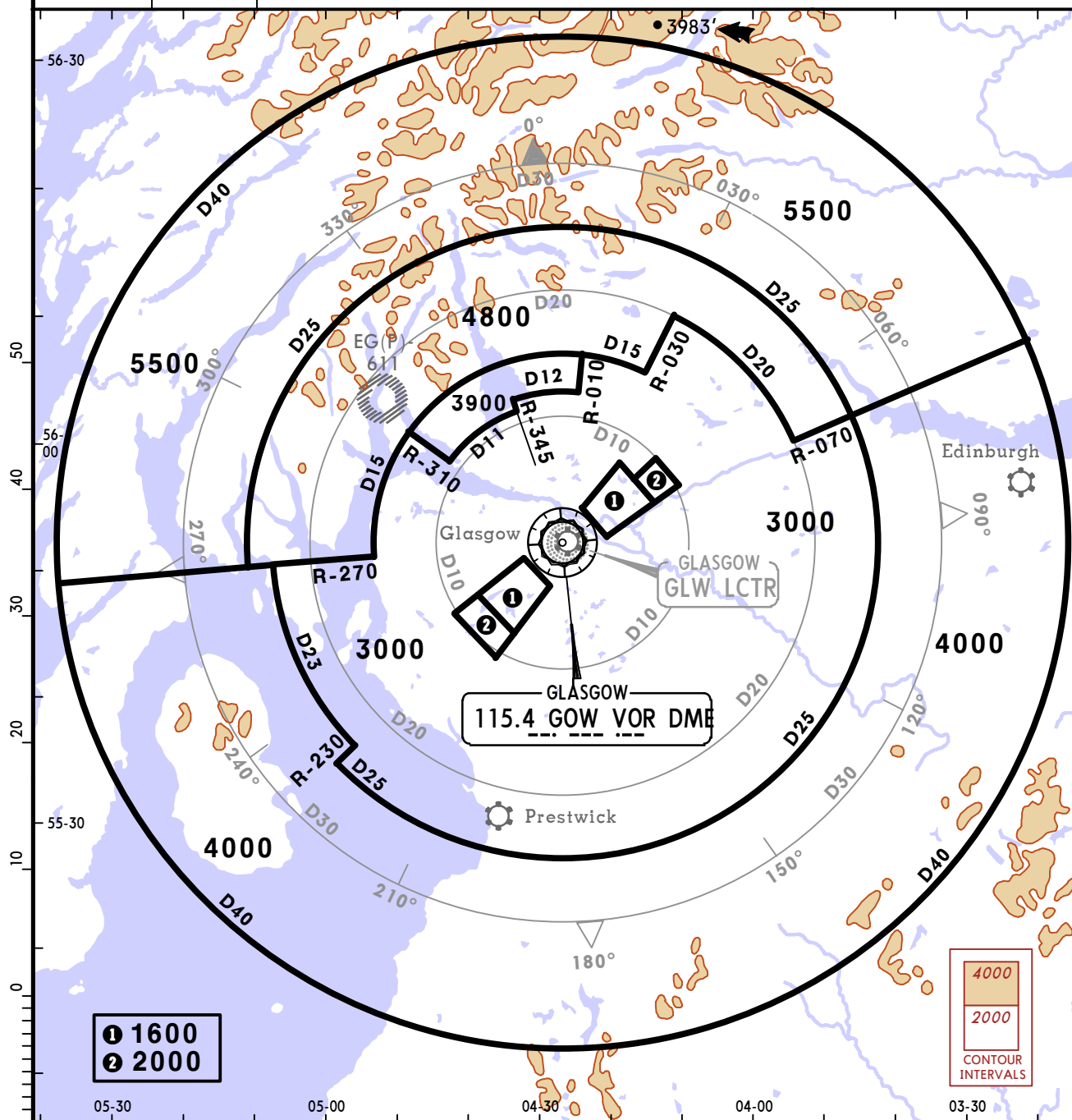
If any data errors are detected by the system or controller, a revert to voice message will be received.

If the attempt to obtain a clearance is unsuccessful, revert to voice RTF.

Further details of DCL service may be obtained from ATC.

GLASGOW
Radar (APP)
119.1Apt Elev
26'

- Alt Set: hPa Trans level: By ATC Trans alt: 6000'
1. This chart may only be used for cross-checking of altitudes when in receipt of an ATC surveillance service.
 2. RWY 05: Further descent to 2000'/1600' may be given within the approach areas shown when aircraft is either established on final approach track or an intercept of 40° or less, and in case of instrument approaches other than SRA is cleared to intercept final approach track.
 3. RWY 23: Pilots should not accept descent below 3000' unless established on a 40° or less, closing heading to final approach track and within 9.5 NM to the RWY THR when closing from the south and 8 NM to the RWY THR when closing from the north and instructed to intercept ILS LOC or specified VOR approach radial.
 4. RWY 23: Aircraft shall not be vectored to NDB approach.

**OUTSIDE THE DESIGNATED RADAR MINIMUM ALTITUDE AREA**

The minimum altitude to be allocated by the approach surveillance controller will be either the Minimum Sector Altitude or 1000' above any fixed obstacles:

- within 5 NM ③ of the aircraft and
- within the sector 15 NM ④ ahead of and within 20° either side of the aircraft's track.

3 NM ③ or 10 NM ④ when the aircraft is within 15 NM of the radar antennae.

PROCEDURE**LOSS OF COMMUNICATION PROCEDURE****INITIAL
APPROACH**

Continue visually or by means of an appropriate approved final approach aid.
If not possible proceed at 3500', or last assigned level if higher, to GOW.

**INTERMEDIATE
AND FINAL
APPROACH**

Continue visually or by means of an appropriate final approach aid.
If not possible follow the Missed Approach Procedure to GOW.

ATIS
129.57Apt Elev
26'

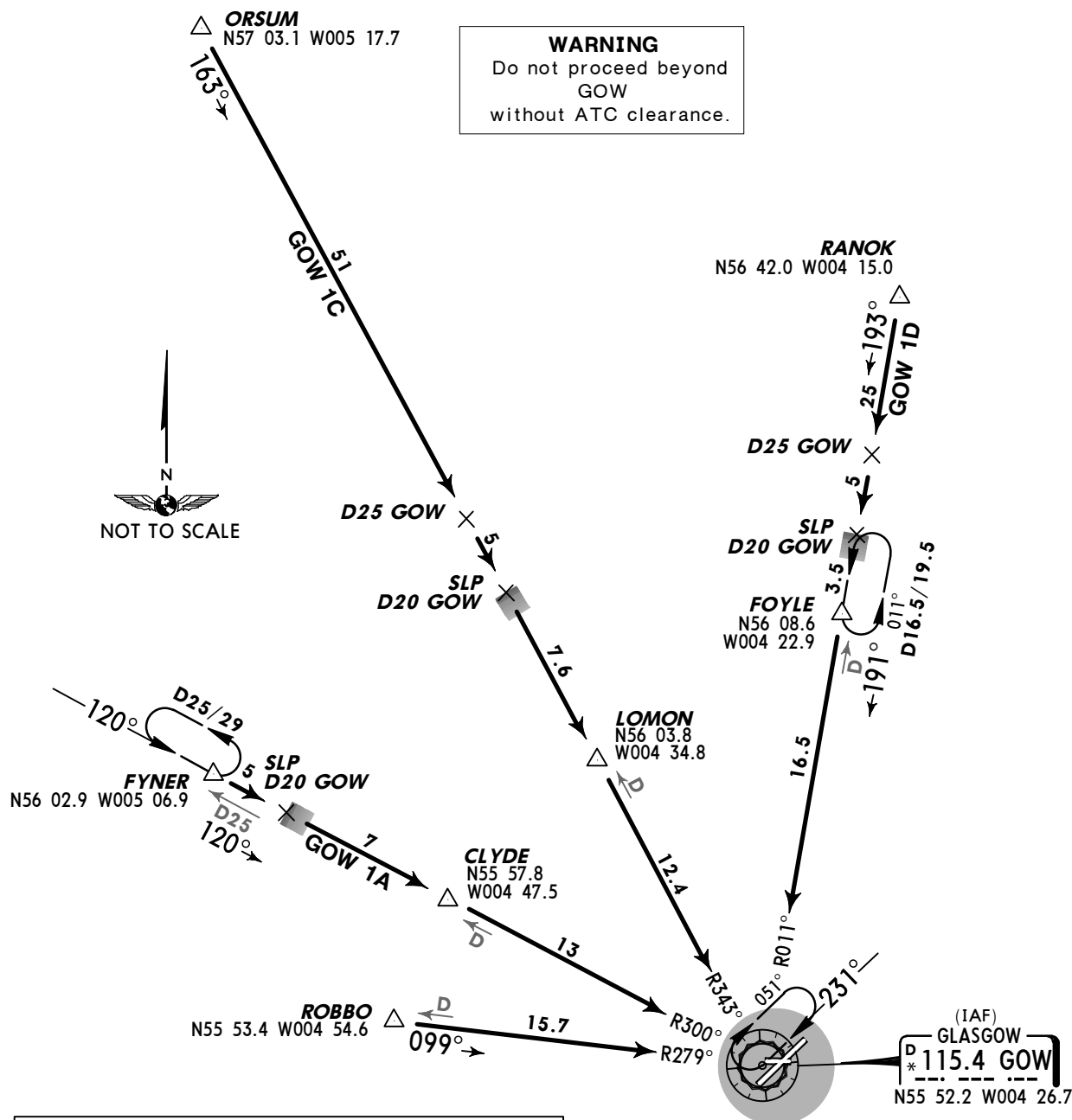
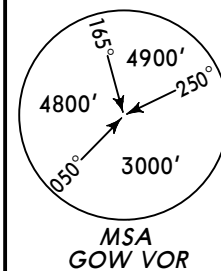
Alt Set: hPa Trans level: By ATC Trans alt: 6000'

1. Aircraft on all routes may be radar vectored.
2. Holdings may be used by SCOTTISH Control for integration of traffic.

GLASGOW ONE ALFA (GOW 1A)
GLASGOW ONE CHARLIE (GOW 1C)
GLASGOW ONE DELTA (GOW 1D)

ARRIVALS

WHEN GOW VOR UNSERVICEABLE
REFER TO CHART 10-2A



Flights inbound to Glasgow from the FIR must observe the normal procedure for joining controlled airspace and should anticipate joining clearance as follows:
From north of the TMA: to GOW.
From west of the TMA: ROBBO to GOW.

DESCENT PLANNING

Pilots should plan for possible descent clearance to **7000'** (equivalent **FL**) by D25 GOW.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

SPEED RESTRICTION

Cross SLP or 3 Min before holding facility at 250 KT or less, when at or below FL140.

■ SLP Speed Limit Point

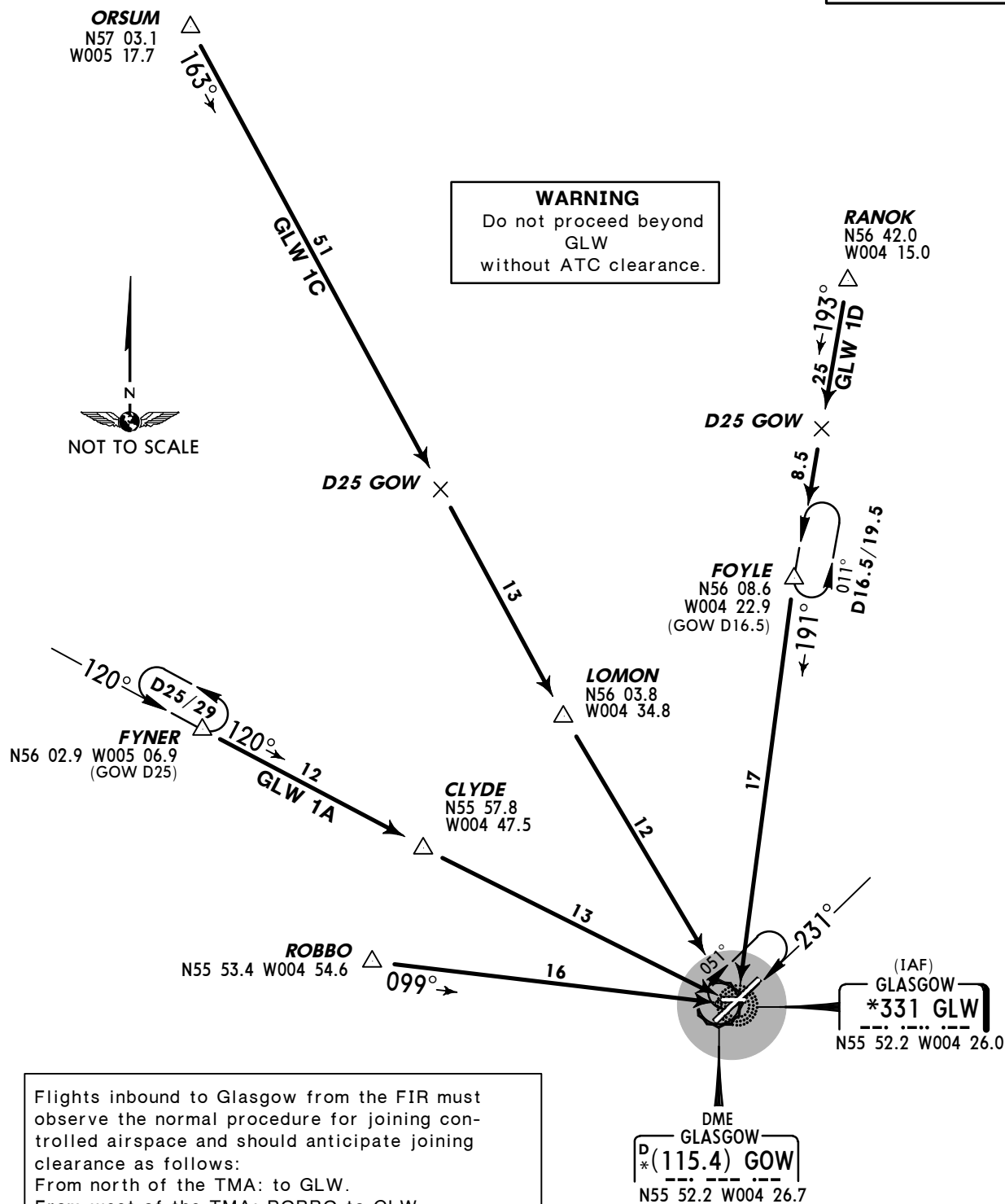
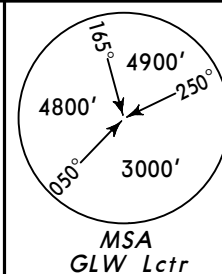
ATIS
129.57Apt Elev
26'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'

1. Aircraft on all routes may be radar vectored.
2. Holdings may be used by SCOTTISH Control for integration of traffic.

GLASGOW ONE ALFA (GLW 1A)
GLASGOW ONE CHARLIE (GLW 1C)
GLASGOW ONE DELTA (GLW 1D)
ARRIVALS

TO BE USED WHEN GOW VOR UNSERVICEABLE



Flights inbound to Glasgow from the FIR must observe the normal procedure for joining controlled airspace and should anticipate joining clearance as follows:
From north of the TMA: to GLW.
From west of the TMA: ROBBO to GLW.

DESCENT PLANNING

Pilots should plan for possible descent clearance to **7000'** (equivalent **FL**) by D25 GOW.
ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

ATIS
129.57Apt Elev
26'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'

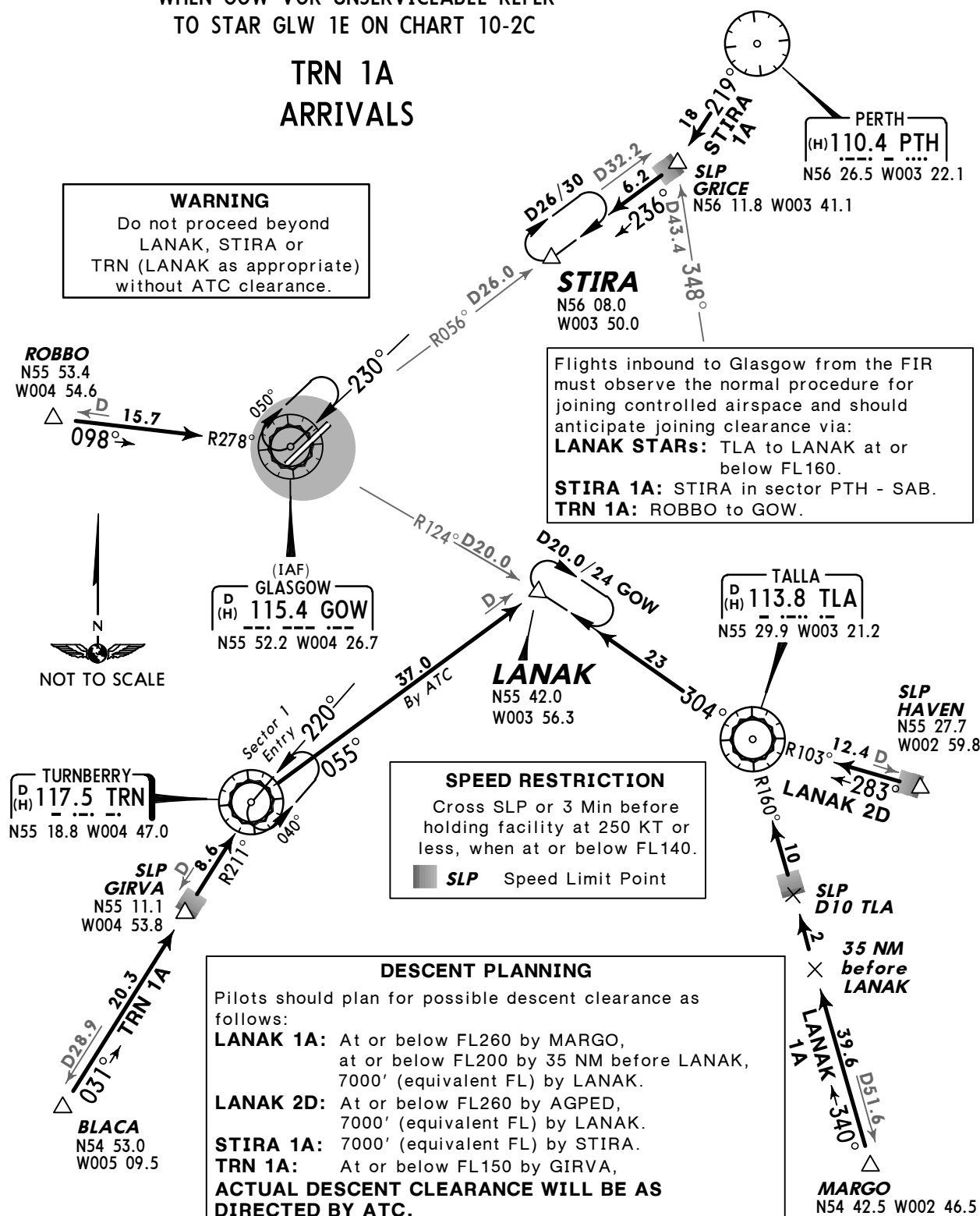
1. Aircraft on all routes may be RADAR vectored.
2. By ATC, when RADAR out of service, aircraft may be instructed to hold at GOW (LANAK 1A, 2D) or LANAK (TRN 1A).

LANAK 1A [LANA1A], LANAK 2D [LANA2D]

WHEN GOW VOR OR DME UNSERVICEABLE REFER
TO STARS LIBBA 1A, 1D ON CHART 10-2C

STIRA 1A [STIR1A]

WHEN GOW VOR UNSERVICEABLE REFER
TO STAR GLW 1E ON CHART 10-2C

**TRN 1A
ARRIVALS**

STAR	ROUTING
LANAK 1A	At MARGO, intercept TLA R-160 inbound to TLA, turn LEFT, TLA R-304 to LANAK.
LANAK 2D	At HAVEN, intercept TLA R-103 inbound to TLA, turn RIGHT, TLA R-304 to LANAK.
STIRA 1A	At PTH, PTH R-219 to GRICE, turn RIGHT, intercept GOW R-056 inbound to STIRA.
TRN 1A	At BLACA, intercept TRN R-211 inbound to TRN.

ATIS
129.57Apt Elev
26'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'

1. Aircraft on all routes may be RADAR vectored.
2. LIBBA STARS: By ATC, when RADAR out of service, aircraft may be instructed to hold at GLW.

GLW 1E

TO BE USED WHEN GOW VOR UNSERVICEABLE

LIBBA 1A [LIBA1A]

LIBBA 1D [LIBA1D]

TO BE USED WHEN GOW VOR OR DME UNSERVICEABLE

ARRIVALS

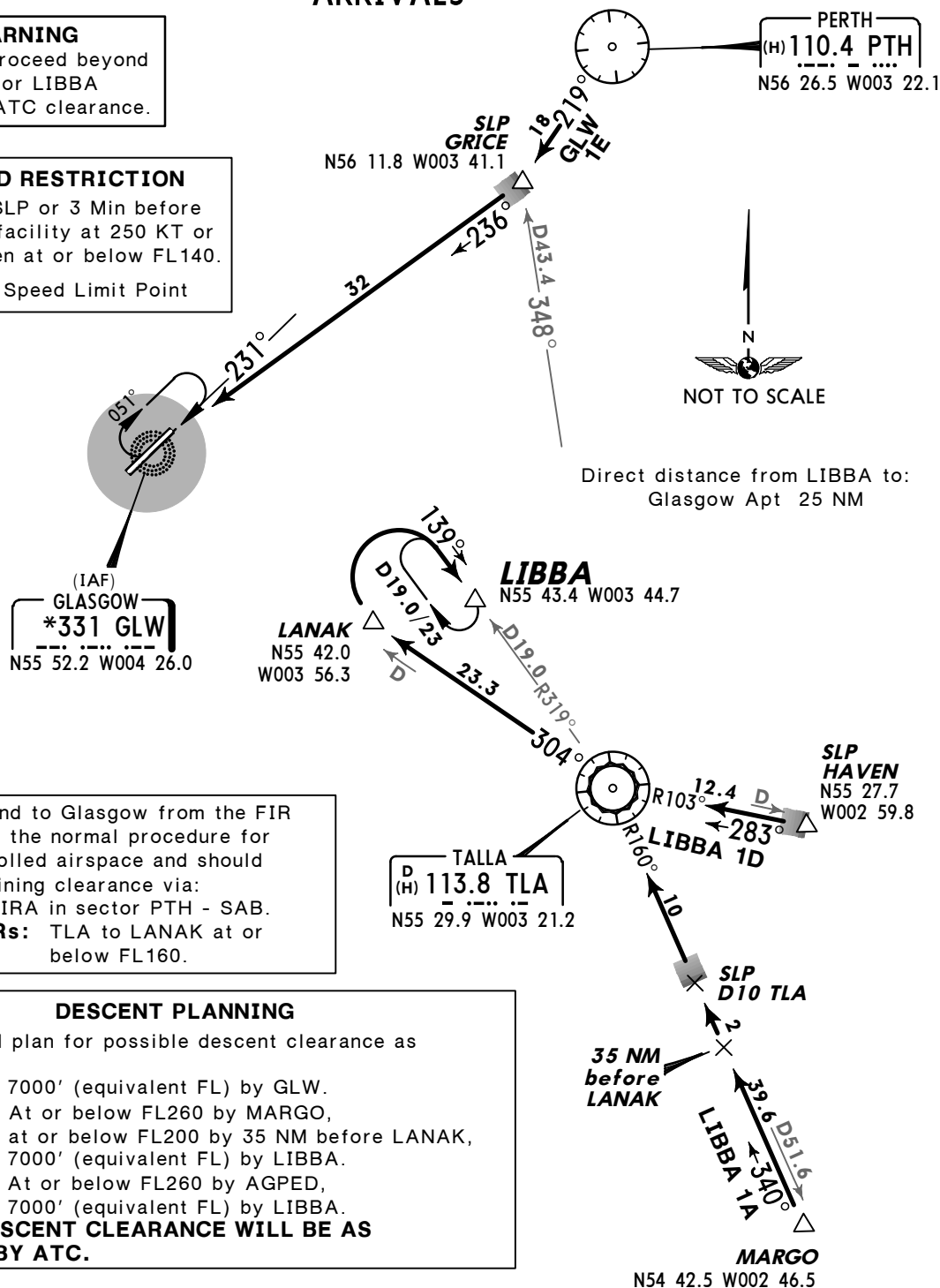
WARNING

Do not proceed beyond
GLW or LIBBA
without ATC clearance.

SPEED RESTRICTION

Cross SLP or 3 Min before
holding facility at 250 KT or
less, when at or below FL140.

■ SLP Speed Limit Point



Flights inbound to Glasgow from the FIR must observe the normal procedure for joining controlled airspace and should anticipate joining clearance via:

GLW 1E: STIRA in sector PTH - SAB.

LIBBA STARS: TLA to LANAK at or below FL160.

DESCENT PLANNING

Pilots should plan for possible descent clearance as follows:

GLW 1E: 7000' (equivalent FL) by GLW.

LIBBA 1A: At or below FL260 by MARGO, at or below FL200 by 35 NM before LANAK, 7000' (equivalent FL) by LIBBA.

LIBBA 1D: At or below FL260 by AGPED, 7000' (equivalent FL) by LIBBA.

ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

STAR

ROUTING

GLW 1E

At PTH, PTH R-219 to GRICE, turn RIGHT, intercept 236° bearing to GLW.

LIBBA 1A

At MARGO, intercept TLA R-160 inbound to TLA, turn LEFT, TLA R-304 to LANAK, turn RIGHT, intercept TLA R-319 inbound to LIBBA.

LIBBA 1D

At HAVEN, intercept TLA R-103 inbound to TLA, turn RIGHT, TLA R-304 to LANAK, turn RIGHT, intercept TLA R-319 inbound to LIBBA.

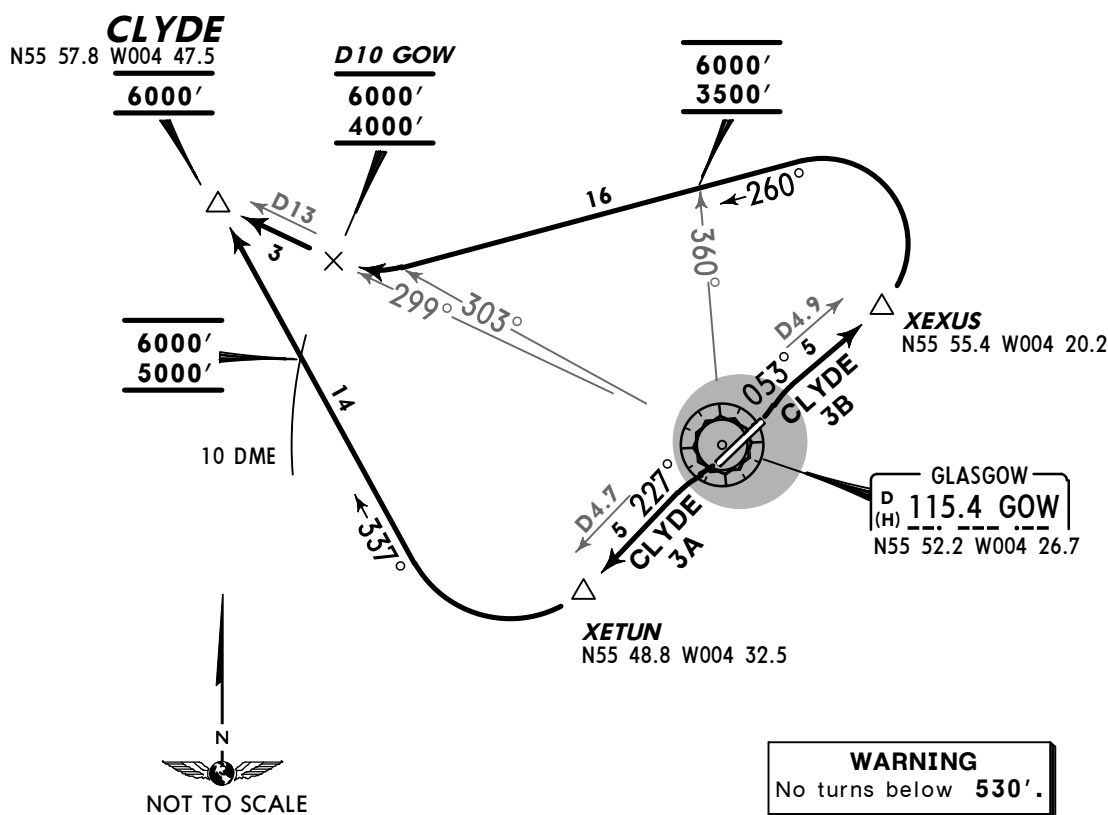
Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

**CLYDE THREE ALFA (CLYDE 3A) [CLYD3A]
CLYDE THREE BRAVO (CLYDE 3B) [CLYD3B]
RWYS 23, 05 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED**

WARNING

Do not climb above 6000'
until cleared by ATC.

**WARNING**

No turns below 530'.

These SIDs require minimum climb gradients of

CLYDE 3A

3.8% up to 2100' and
5.75% up to 5000' due to ATC and airspace restrictions.

CLYDE 3B

4.5% up to 1500' and
5.75% up to 3500' due to ATC and airspace restrictions.

AVERAGE TRACK MILEAGE

CLYDE 3A: 18 NM to CLYDE.
CLYDE 3B: 24 NM to CLYDE.

Gnd speed-KT	75	100	150	200	250	300
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367
3.8% V/V(fpm)	289	385	577	770	962	1155

EARLY TURNS: Aircraft which are not required by the Aerodrome Authority to adhere to noise preferential routes may be authorized by ATC to turn before XETUN/XEXUS.

Pilots are warned of high ground to the NORTH of the airfield and should turn:

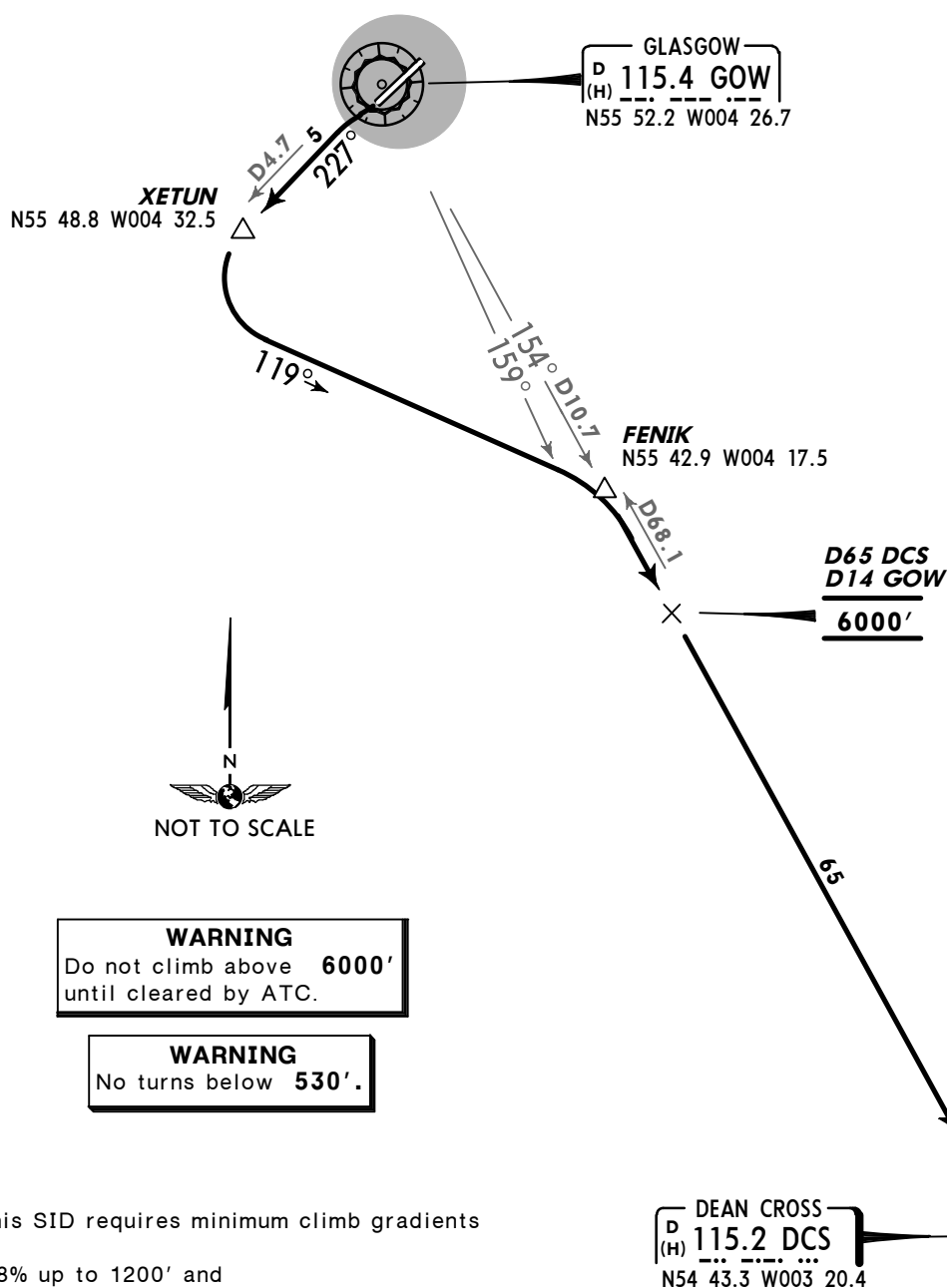
- from runway 23: not EAST of GOW R-325 to intercept SID track.
- from runway 05: not below 1500'.

SID	RWY	ROUTING/ALTITUDE
CLYDE 3A	23	Intercept GOW R-227 to D4.7 GOW (XETUN), turn RIGHT, 337° track, cross GOW 10 DME at or above 5000' (MAX 6000') to CLYDE at 6000'.
CLYDE 3B	05	Intercept GOW R-053 to D4.9 GOW (XEXUS), turn LEFT, 260° track, cross GOW R-360 at or above 3500' (MAX 6000'), when passing GOW R-303 turn RIGHT, intercept GOW R-299, cross D10 GOW at or above 4000' (MAX 6000'), to CLYDE at 6000'.

Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
 1. SIDs include noise preferential routes.
 2. Cruising levels will be issued after take-off by SCOTTISH Control.

**DEAN CROSS SIX ALFA (DCS 6A)
 RWY 23 DEPARTURE
 NON-JET AIRCRAFT ONLY
~~SPEED~~ MAX 250 KT BELOW FL 100
 UNLESS OTHERWISE AUTHORIZED**

**ROUTING/ALTITUDE**

Intercept GOW R-227 to D4.7 GOW (XETUN), turn LEFT, 119° track towards FENIK, when passing GOW R-159 turn RIGHT, intercept GOW R-154 (DCS R-334 inbound), cross D65 DCS (D14 GOW) at 6000', to DCS.

Apt Elev
26'

Trans level: By ATC Trans alt: 6000'

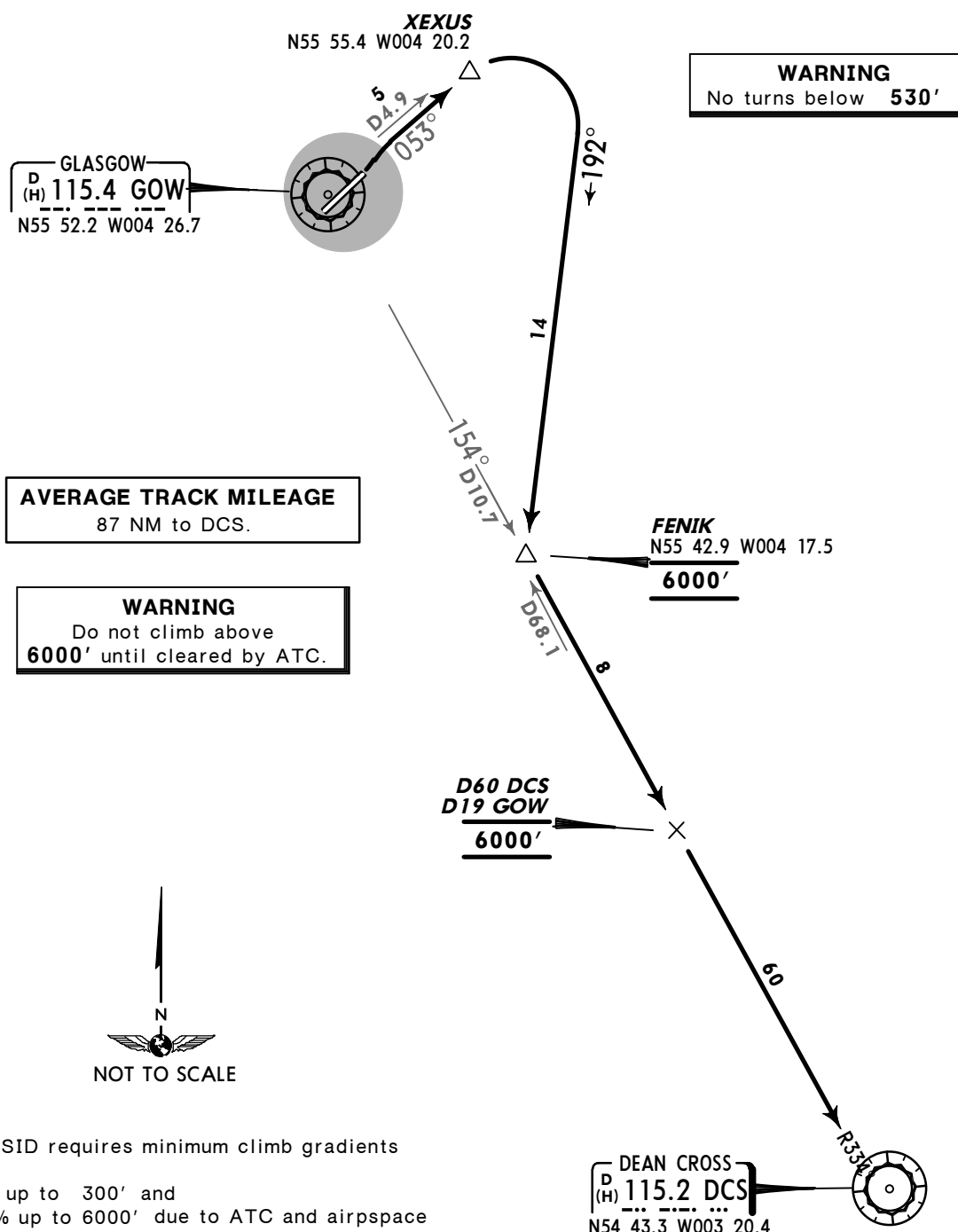
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

DEAN CROSS EIGHT BRAVO (DCS 8B)

RWY 05 DEPARTURE

NON-JET AIRCRAFT ONLY

~~SPEED~~ MAX 250 KT BELOW FL 100
UNLESS OTHERWISE AUTHORIZED



This SID requires minimum climb gradients of
 4.5% up to 300' and
 5.75% up to 6000' due to ATC and airspace restrictions.

Gnd speed-KT	75	100	150	200	250	300
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367

ROUTING/ALTITUDE

Climb straight ahead, intercept GOW R-053 to D4.9 GOW (XEXUS), turn RIGHT, 192° track towards FENIK at 6000', intercept GOW R-154 (DCS R-334 inbound), cross D60 DCS/D19 GOW at 6000', then DCS.

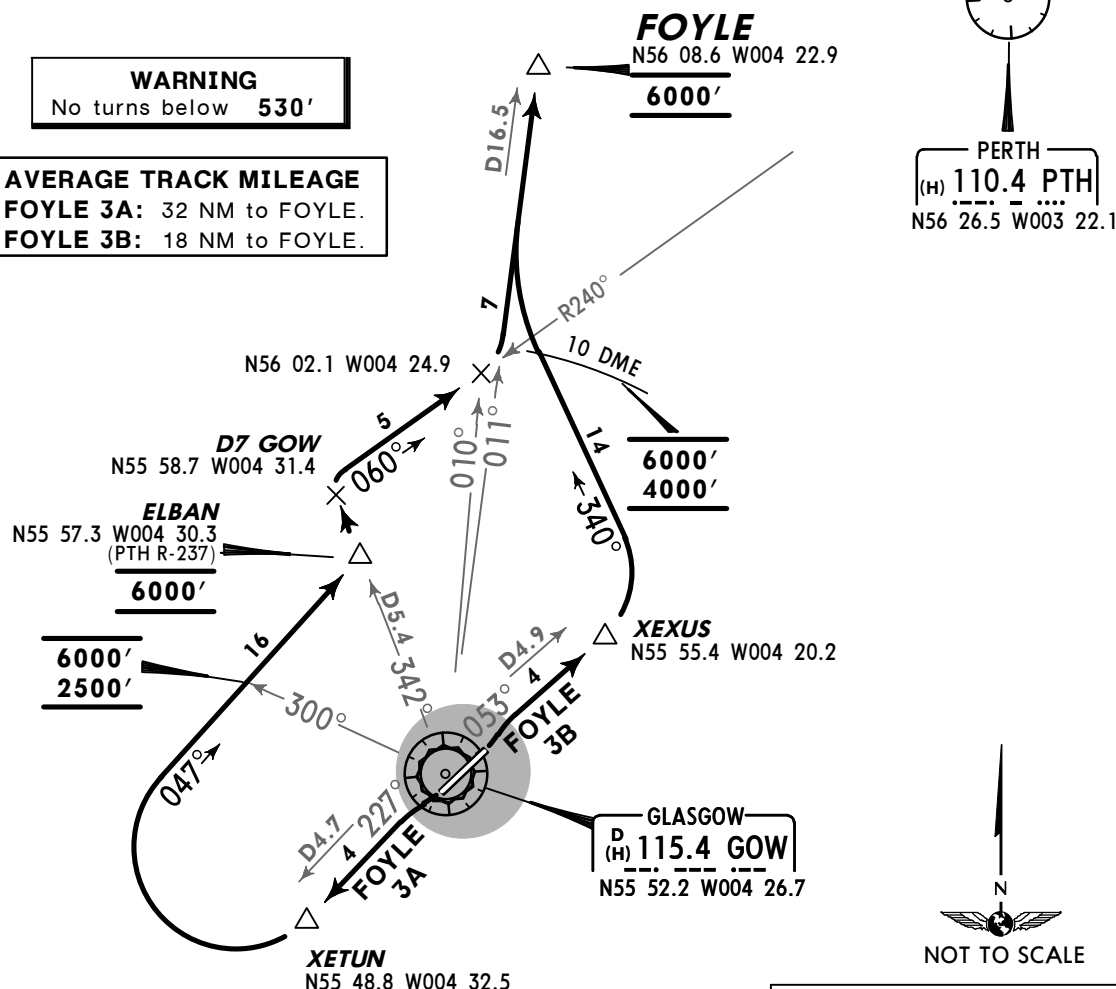
Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

**FOYLE THREE ALFA (FOYLE 3A) [FOYL3A]
FOYLE THREE BRAVO (FOYLE 3B) [FOYL3B]
RWYS 23, 05 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED**

WARNING
No turns below 530'

AVERAGE TRACK MILEAGE
FOYLE 3A: 32 NM to FOYLE.
FOYLE 3B: 18 NM to FOYLE.



These SIDs require minimum climb gradients of

FOYLE 3A

3.8% up to 2100' and
5.75% up to 6000' due to ATC and airspace restrictions.

FOYLE 3B

4.5% up to 1500' and
6.6% up to 4000' due to ATC and airspace restrictions.

WARNING
Do not climb above
6000' until cleared by ATC.

Gnd speed-KT	75	100	150	200	250	300
6.6% V/V(fpm)	501	668	1003	1337	1671	2005
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367
3.8% V/V(fpm)	289	385	577	770	962	1155

EARLY TURNS: Aircraft which are not required by the Aerodrome Authority to adhere to noise preferential routes may be authorized by ATC to turn before XETUN/XEXUS.

Pilots are warned of high ground to the NORTH of the airfield and should turn:

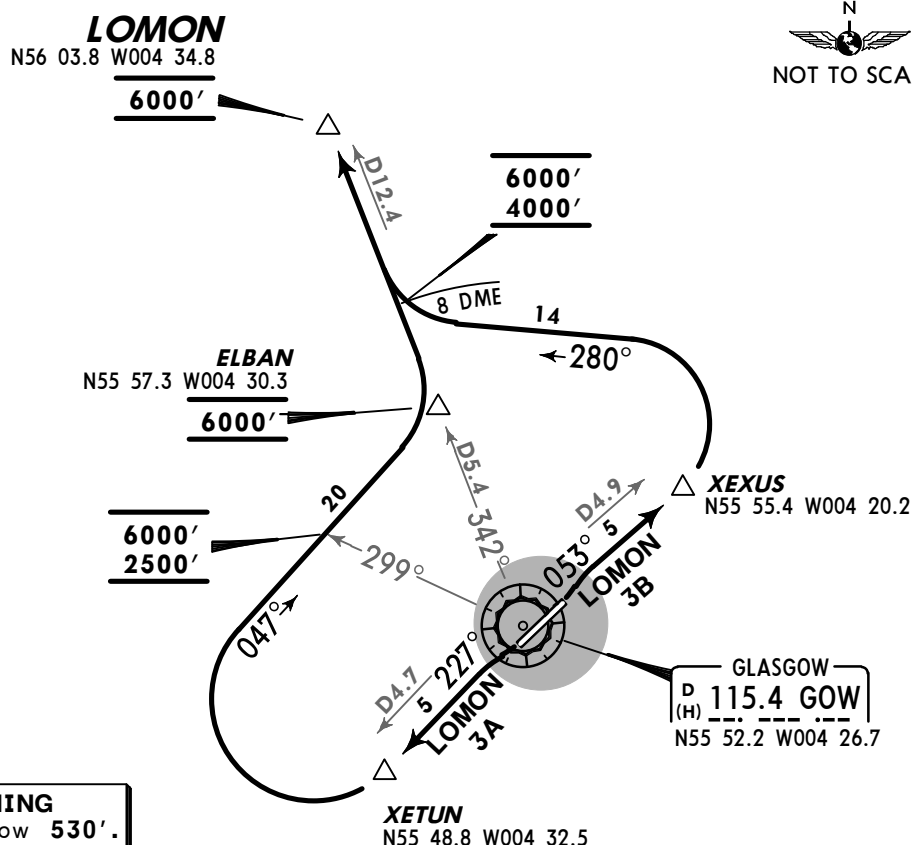
- from runway 23: not EAST of GOW R-325 until above 1500'.
- from runway 05: not below 1500'.

SID	RWY	ROUTING/ALTITUDE
FOYLE 3A	23	Climb straight ahead, intercept GOW R-227 to D4.7 GOW (XETUN), turn RIGHT, 047° track, when passing GOW R-300 cross at or above 2500' (MAX 6000'), towards ELBAN at 6000', intercept GOW R-342, at D7 GOW turn RIGHT, intercept PTH R-240 inbound, at GOW R-010 turn LEFT, intercept GOW R-011 to FOYLE, at 6000'.
FOYLE 3B	05	Climb straight ahead, intercept GOW R-053 to D4.9 GOW (XEXUS), turn LEFT, 340° track, cross GOW 10 DME at or above 4000' (MAX 6000'), intercept GOW R-011 to FOYLE, at 6000'.

Apt Elev
26'Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

LOMON THREE ALFA (LOMON 3A) [LOMO3A]
LOMON THREE BRAVO (LOMON 3B) [LOMO3B]
RWYS 23, 05 DEPARTURES
~~SPEEDS~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED

WARNING
Do not climb above 6000'
until cleared by ATC.



These SIDs require minimum climb gradients of

LOMON 3A

3.8% up to 2100' and
5.75% up to 6000' due to ATC and airspace restrictions.

LOMON 3B

4.5% up to 1500' and
5.75% up to 4000' and
6% up to 6000' due to ATC and airspace restrictions.

AVERAGE TRACK MILEAGE
LOMON 3A: 25 NM to LOMON.
LOMON 3B: 19 NM to LOMON.

Gnd speed-KT	75	100	150	200	250	300
6% V/V(fpm)	456	608	911	1215	1519	1823
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.8% V/V(fpm)	342	456	684	911	1139	1367
3.8% V/V(fpm)	289	385	577	770	962	1155

EARLY TURNS: Aircraft which are not required by the Aerodrome Authority to adhere to noise preferential routes may be authorized by ATC to turn before XETUN/XEXUS.

Pilots are warned of high ground to the NORTH of the airfield and should turn:

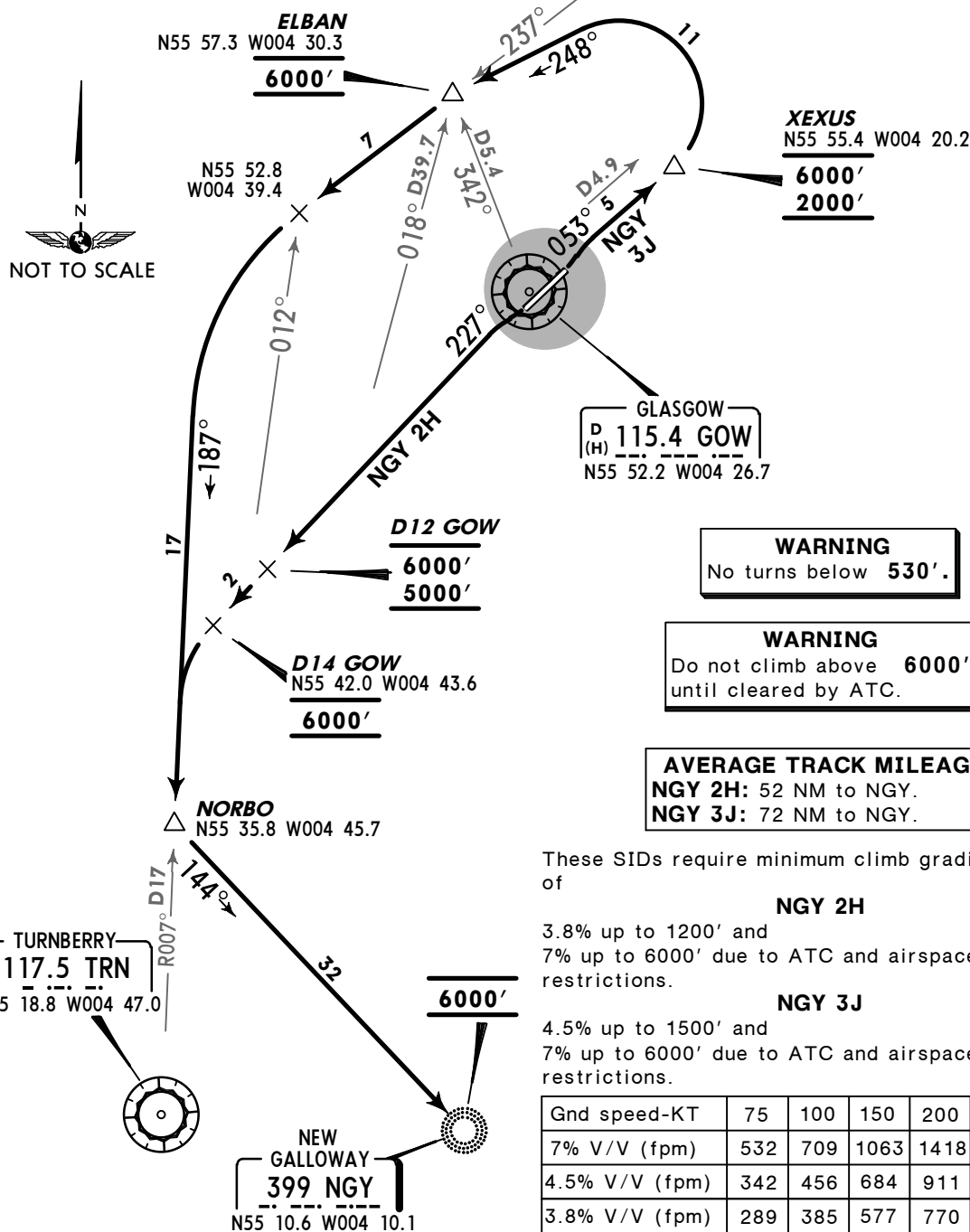
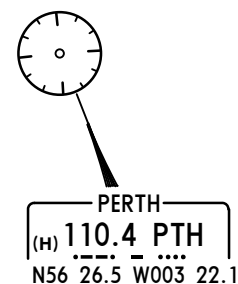
- from runway 23: not EAST of GOW R-325 until above 1500'.
- from runway 05: not below 1500'.

SID	RWY	ROUTING/ALTITUDE
LOMON 3A	23	Intercept GOW R-227 to D4.7 GOW (XETUN), turn RIGHT, 047° track towards ELBAN, cross GOW R-299 at or above 2500' (MAX 6000'), ELBAN at 6000', intercept GOW R-342 to LOMON at 6000'.
LOMON 3B	05	Intercept GOW R-053 to D4.9 GOW (XEXUS), turn LEFT, 280° track, cross GOW 8 DME at or above 4000' (MAX 6000'), intercept GOW R-342 to LOMON at 6000'.

Apt Elev
26'Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.NEW GALLOWAY TWO HOTEL (NGY 2H)
NEW GALLOWAY THREE JULIETT (NGY 3J)

RWYS 23, 05 DEPARTURES

JET AIRCRAFT ONLY

**~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED**

SID	RWY	ROUTING/ALTITUDE
NGY 2H	23	Intercept GOW R-227, cross D12 GOW at or above 5000' (MAX 6000'), D14 GOW at 6000', turn LEFT, intercept TRN R-007 inbound, at NORBO (D17 TRN) turn LEFT, intercept 144° bearing to NGY at 6000'.
NGY 3J	05	Intercept GOW R-053 to D4.9 GOW (XEXUS), cross at or above 2000' (MAX 6000'), turn LEFT, 248° track to ELBAN, cross at 6000', intercept PTH R-237, at TRN R-012 turn LEFT, intercept TRN R-007 inbound, at NORBO (D17 TRN) turn LEFT, intercept 144° bearing to NGY at 6000'.

Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

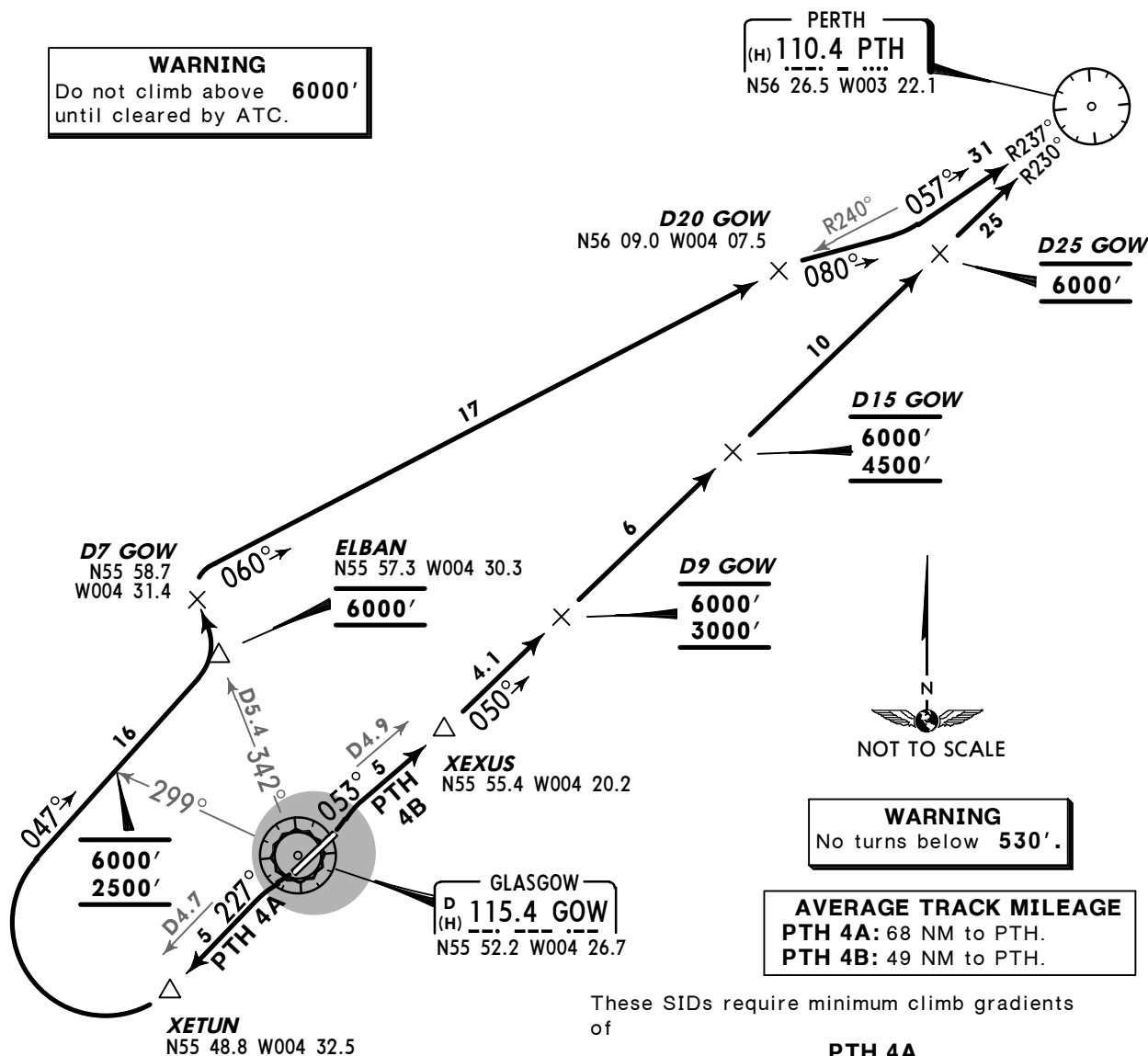
PERTH FOUR ALFA (PTH 4A)
PERTH FOUR BRAVO (PTH 4B)

RWYS 23, 05 DEPARTURES

~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED

WARNING

Do not climb above **6000'**
until cleared by ATC.



Gnd speed-KT	75	100	150	200	250	300
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367
3.8% V/V(fpm)	289	385	577	770	962	1155

EARLY TURNS: Aircraft which are not required by the Aerodrome Authority to adhere to noise preferential routes may be authorized by ATC to turn before XETUN.

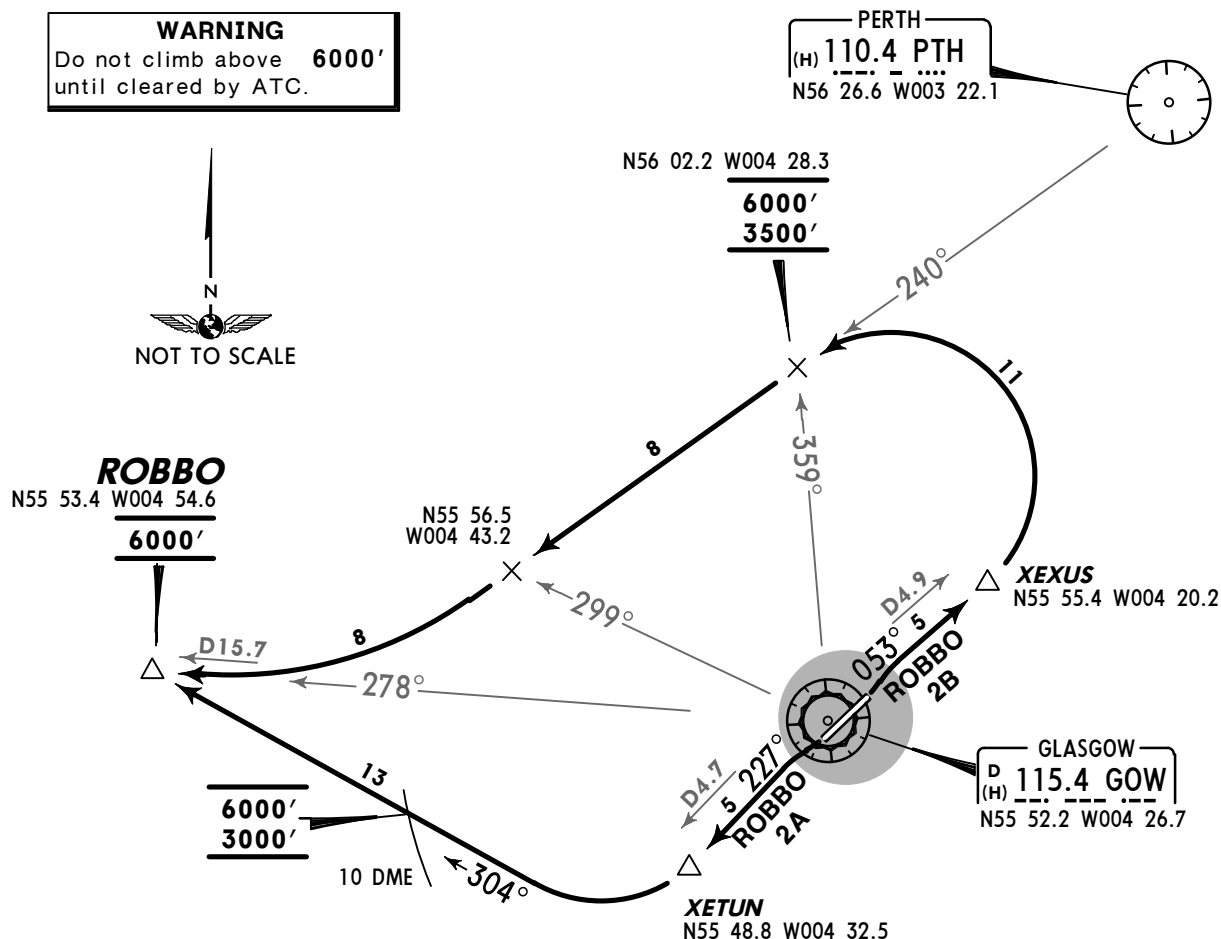
Pilots are warned of high ground to the NORTH of the airfield. Aircraft departing from runway 23 should not turn EAST of GOW R-325 until above 1500'.

SID	RWY	ROUTING/ALTITUDE
PTH 4A	23	Intercept GOW R-227 to D4.7 GOW (XETUN), turn RIGHT, 047° track towards ELBAN, cross GOW R-299 at or above 2500' (MAX 6000'), ELBAN at 6000', intercept GOW R-342, at D7 GOW turn RIGHT, intercept PTH R-240 inbound, at D20 GOW turn RIGHT, 080° track, intercept PTH R-237 inbound to PTH.
PTH 4B	05	Intercept GOW R-053 to D4.9 GOW (XEXUS), intercept PTH R-230 inbound, cross D9 GOW at or above 3000' (MAX 6000'), D15 GOW at or above 4500' (MAX 6000'), D25 GOW at 6000', to PTH.

Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

ROBBO TWO ALFA (ROBBO 2A) [ROBO2A]
ROBBO TWO BRAVO (ROBBO 2B) [ROBO2B]
RWYS 23, 05 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED



WARNING
No turns below 530'.

These SIDs require minimum climb gradients of

ROBBO 2A

3.8% up to 2100' and
5.75% up to 3000' due to ATC and airspace
restrictions.

ROBBO 2B

4.5% up to 1500' and
5.75% up to 3500' due to ATC and airspace
restrictions.

AVERAGE TRACK MILEAGE
ROBBO 2A: 18 NM to ROBBO.
ROBBO 2B: 29 NM to ROBBO.

Gnd speed-KT	75	100	150	200	250	300
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367
3.8% V/V(fpm)	289	385	577	770	962	1155

EARLY TURNS: Aircraft which are not required by the Aerodrome Authority to adhere to noise preferential routes may be authorized by ATC to turn before XETUN/XEXUS. Pilots are warned of high ground to the North of the airfield. Aircraft departing from runway 05 should not turn below 1500'.

SID	RWY	ROUTING/ALTITUDE
ROBBO 2A	23	Intercept GOW R-227 to D4.7 GOW (XETUN), turn RIGHT, 304° track, cross GOW 10 DME at or above 3000' (MAX 6000'), to ROBBO at 6000'.
ROBBO 2B	05	Intercept GOW R-053 to D4.9 GOW (XEXUS), turn LEFT, intercept PTH R-240, cross GOW R-359 at or above 3500' (MAX 6000'), when passing GOW R-299 turn RIGHT, intercept GOW R-278 to ROBBO at 6000'.

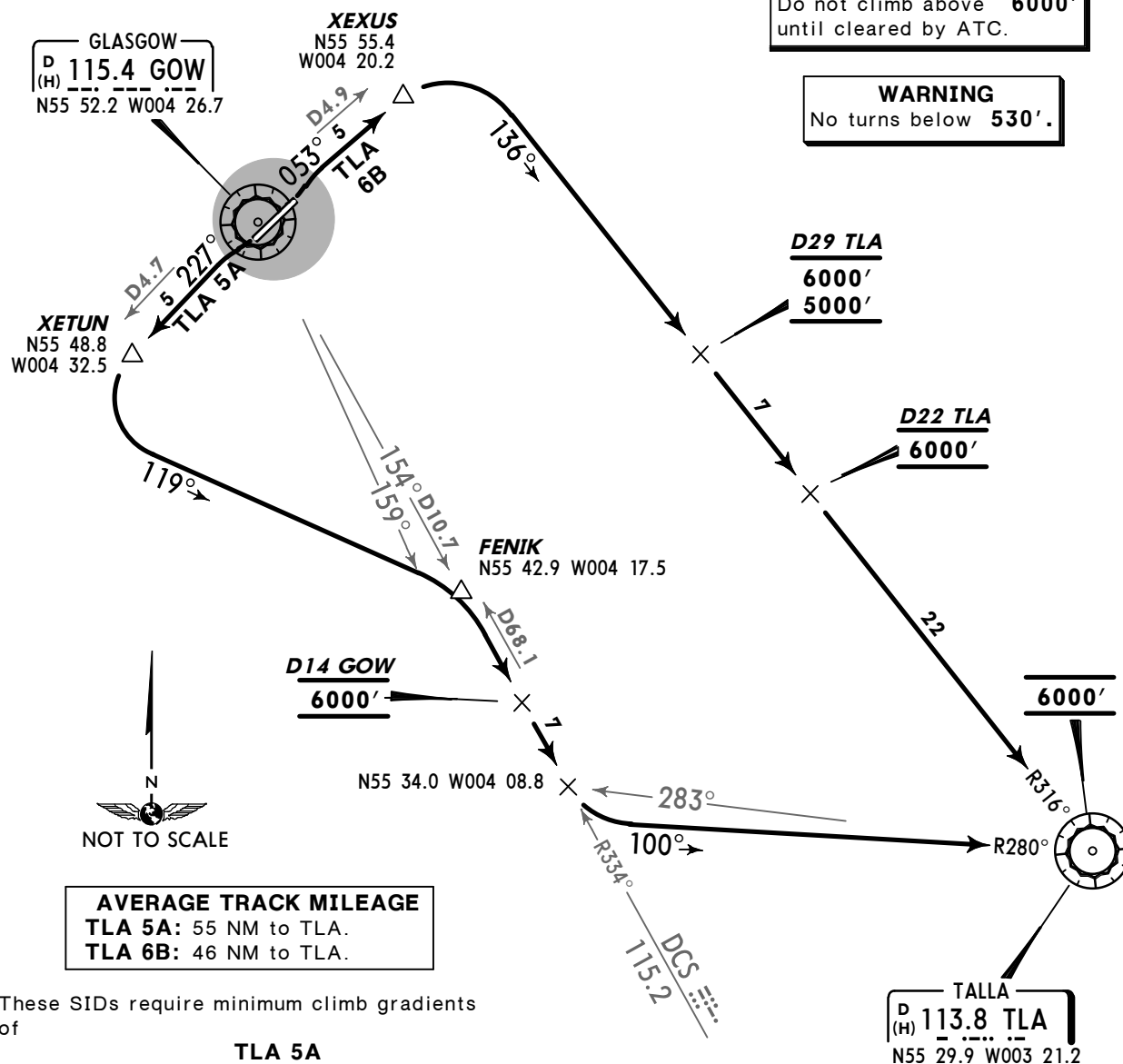
Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

**TALLA FIVE ALFA (TLA 5A)
TALLA SIX BRAVO (TLA 6B)
RWYS 23, 05 DEPARTURES
NON-JET AIRCRAFT ONLY,
LEAVING CONTROLLED AIRSPACE VIA TLA
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED**

WARNING
Do not climb above **6000'**
until cleared by ATC.

WARNING
No turns below **530'**.



Gnd speed-KT	75	100	150	200	250	300
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367
3.8% V/V(fpm)	289	385	577	770	962	1155

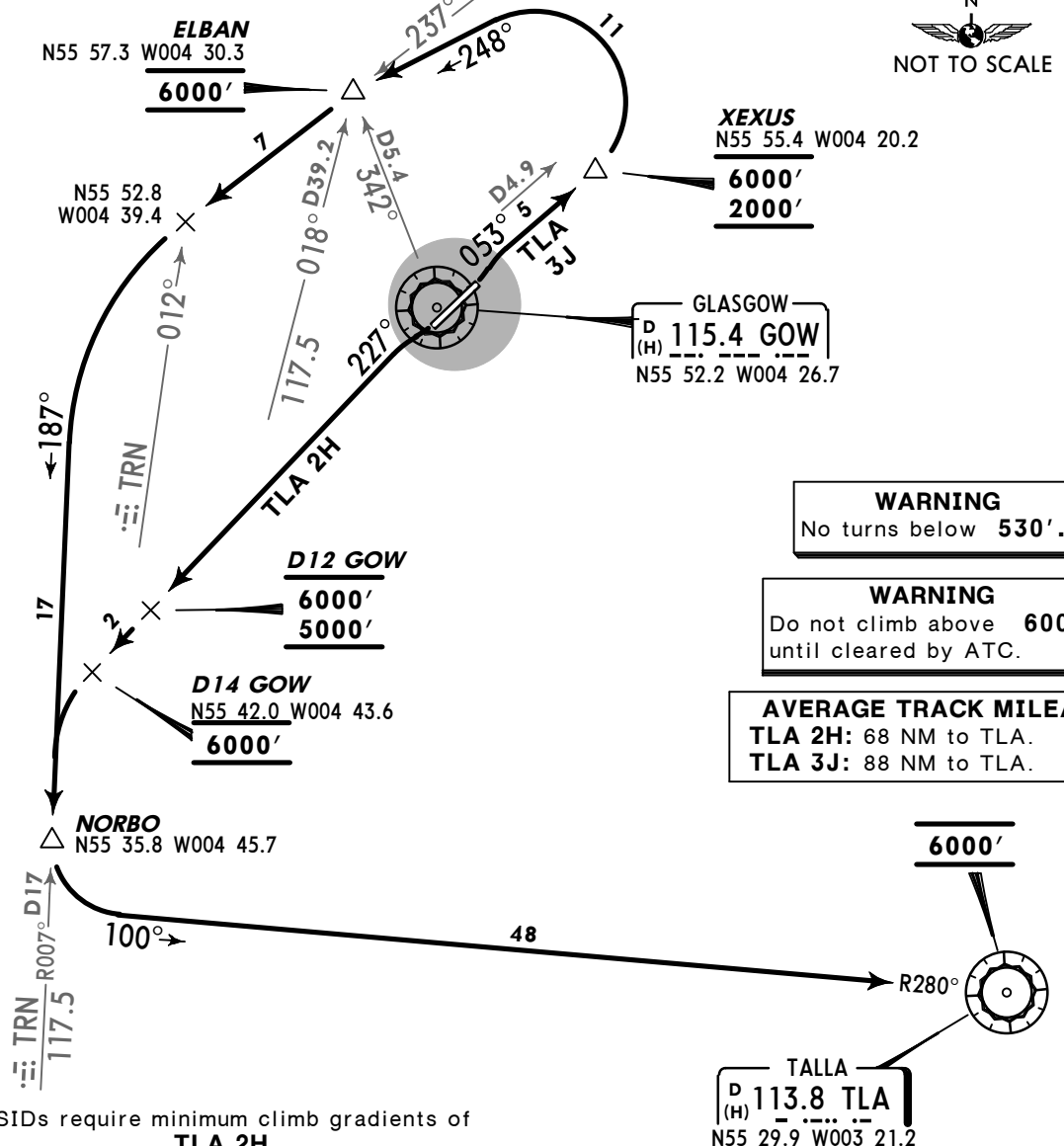
SID	RWY	ROUTING/ALTITUDE
TLA 5A	23	Intercept GOW R-227 to D4.7 GOW (XETUN), turn LEFT, 119° track towards FENIK, when passing GOW R-159 turn RIGHT, intercept GOW R-154, cross D14 GOW at 6000', when passing TLA R-283 turn LEFT, intercept TLA R-280 inbound to TLA at 6000'.
TLA 6B	05	Intercept GOW R-053 to D4.9 GOW (XEXUS), turn RIGHT, intercept TLA R-316 inbound, cross D29 TLA at 5000' (MAX 6000'), D22 TLA at 6000', to TLA at 6000'.

Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

TALLA TWO HOTEL (TLA 2H)
TALLA THREE JULIETT (TLA 3J)
RWYS 23, 05 DEPARTURES

JET AIRCRAFT ONLY,
LEAVING CONTROLLED AIRSPACE VIA TLA
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED



These SIDs require minimum climb gradients of
TLA 2H

3.8% up to 1200' and
7% up to 6000' due to ATC and airspace
restrictions.

TLA 3J

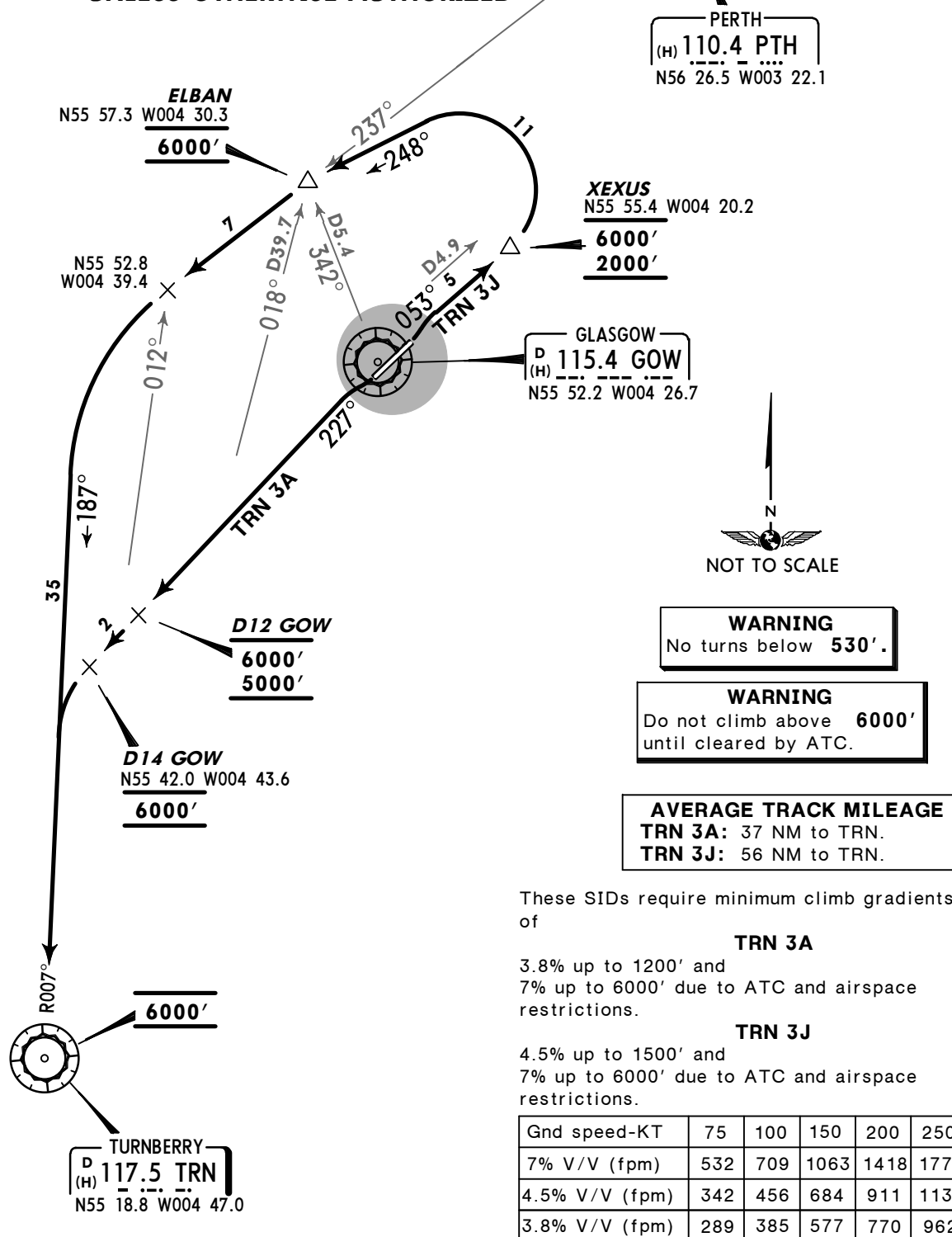
4.5% up to 1500' and
7% up to 6000' due to ATC and airspace
restrictions.

Gnd speed-KT	75	100	150	200	250	300
7% V/V (fpm)	532	709	1063	1418	1772	2127
4.5% V/V (fpm)	342	456	684	911	1139	1367
3.8% V/V (fpm)	289	385	577	770	962	1155

SID	RWY	ROUTING/ALTITUDE
TLA 2H	23	Intercept GOW R-227, cross D12 GOW at 5000' (MAX 6000'), D14 GOW at 6000', turn LEFT, intercept TRN R-007 inbound to NORBO (D17 TRN), turn LEFT, intercept TLA R-280 inbound to TLA at 6000'.
TLA 3J	05	Intercept GOW R-053, cross D4.9 GOW (XEXUS) at or above 2000' (MAX 6000'), turn LEFT, 248° track to ELBAN, cross at 6000', intercept PTH R-237, at TRN R-012 turn LEFT, intercept TRN R-007 inbound to NORBO (D17 TRN), turn LEFT, intercept TLA R-280 inbound to TLA at 6000'.

Apt Elev
26'

Trans level: By ATC Trans alt: 6000'
1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

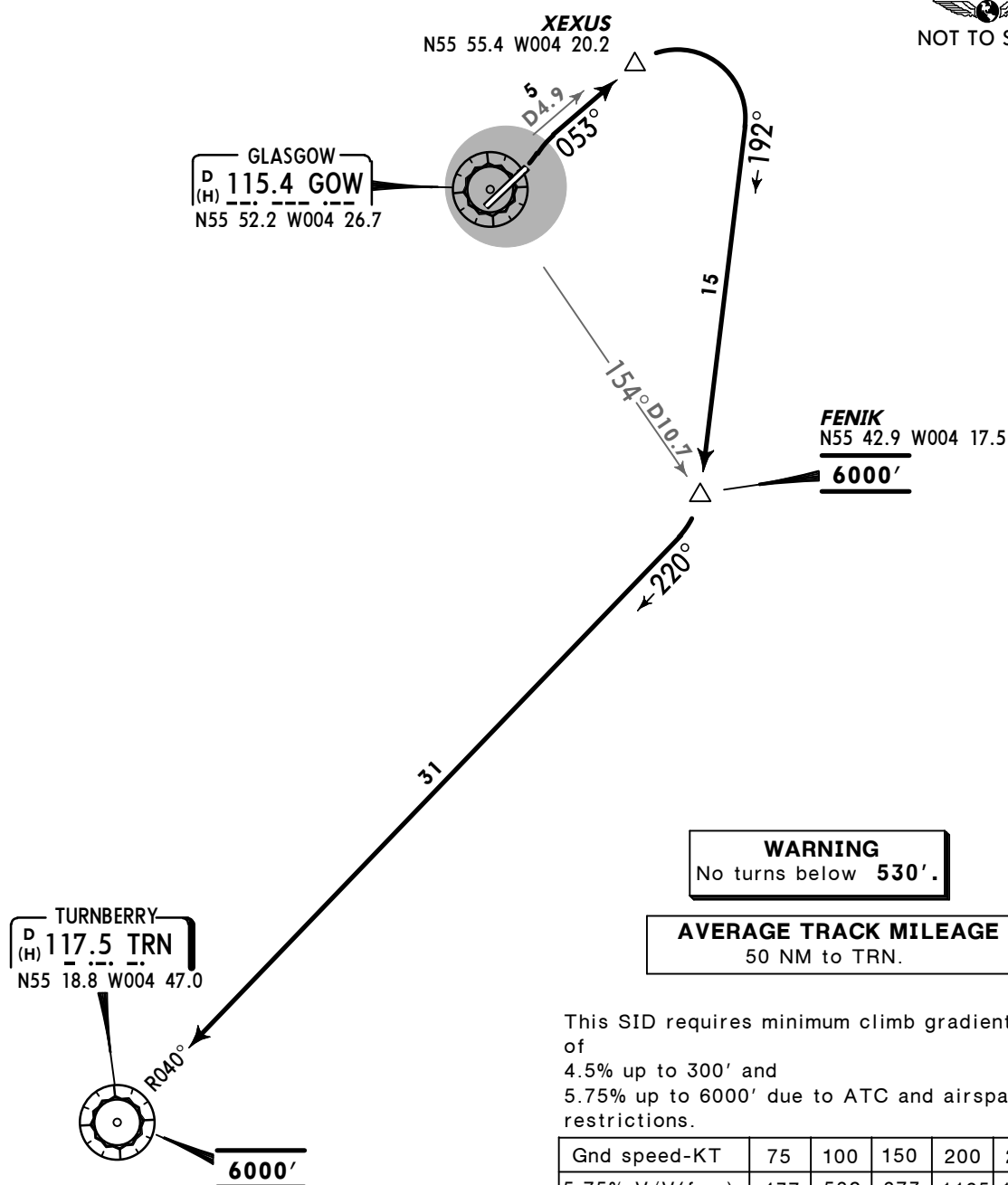
**TURNBERRY THREE ALFA (TRN 3A)
TURNBERRY THREE JULIETT (TRN 3J)****RWYS 23, 05 DEPARTURES****~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED**

SID	RWY	ROUTING/ALTITUDE
TRN 3A	23	Intercept GOW R-227, cross D12 GOW at or above 5000' (MAX 6000') to D14 GOW at 6000', turn LEFT, intercept TRN R-007 inbound to TRN at 6000'.
TRN 3J JET ACFT ONLY	05	Intercept GOW R-053, cross D4.9 GOW (XEXUS) at or above 2000' (MAX 6000'), turn LEFT, 248° track to ELBAN, cross at 6000', intercept PTH R-237, at TRN R-012 turn LEFT, intercept TRN R-007 inbound to TRN at 6000'.

Trans level: By ATC Trans alt: 6000'

1. SIDs include noise preferential routes.
2. Cruising levels will be issued after take-off by SCOTTISH Control.

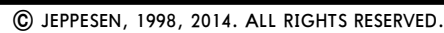
WARNING
Do not climb above **6000'**
until cleared by ATC.



Gnd speed-KT	75	100	150	200	250	300
5.75% V/V(fpm)	437	582	873	1165	1456	1747
4.5% V/V(fpm)	342	456	684	911	1139	1367

Intercept GOW R-053 to D4.9 GOW (XEXUS), turn RIGHT, 192° track to FENIK, cross at 6000', intercept TRN R-040 inbound to TRN at 6000'.

Tower
118.8



From rwy head	8730' (2661m)
twy A int	8468' (2581m)
twy B int	7556' (2303m)

TAKE-OFF 1

1 Operators applying U.S. Ops Specs: CL required below 300m; approved guidance system required below 150m.



STRAIGHT-IN RWY		DA(H) / MDA(H)	RVR (ALS/ALS out)
05	CAT 2 ILS DME ❶	126' (100')	RA 104' - 300m
	CAT 2 ILS DME ❷	164' (138')	RA 146' - 400m
	ILS DME ❶	226' (200')	500m / 1000m
	ILS DME ❷	253' (227')	550m / 1000m
	LOC	370' (344')	800m / 1000m
	VOR DME	510' (484')	1000m / 1000m
	NDB DME	540' (514')	1000m / 1000m
	SRA	1080' (1054')	1000m / 1000m
23	CAT 2 ILS DME	121' (100')	RA 103' - 300m
	ILS DME	221' (200')	500m / 1000m
	LOC	430' (409')	800m / 1000m
	VOR DME	610' (589')	1000m / 1000m
	NDB DME	610' (589')	1000m / 1000m
	SRA	810' (789')	1000m / 1000m

❶ Missed apch climb gradient mim 3.3%.

❷ Missed apch climb gradient mim 2.5%.

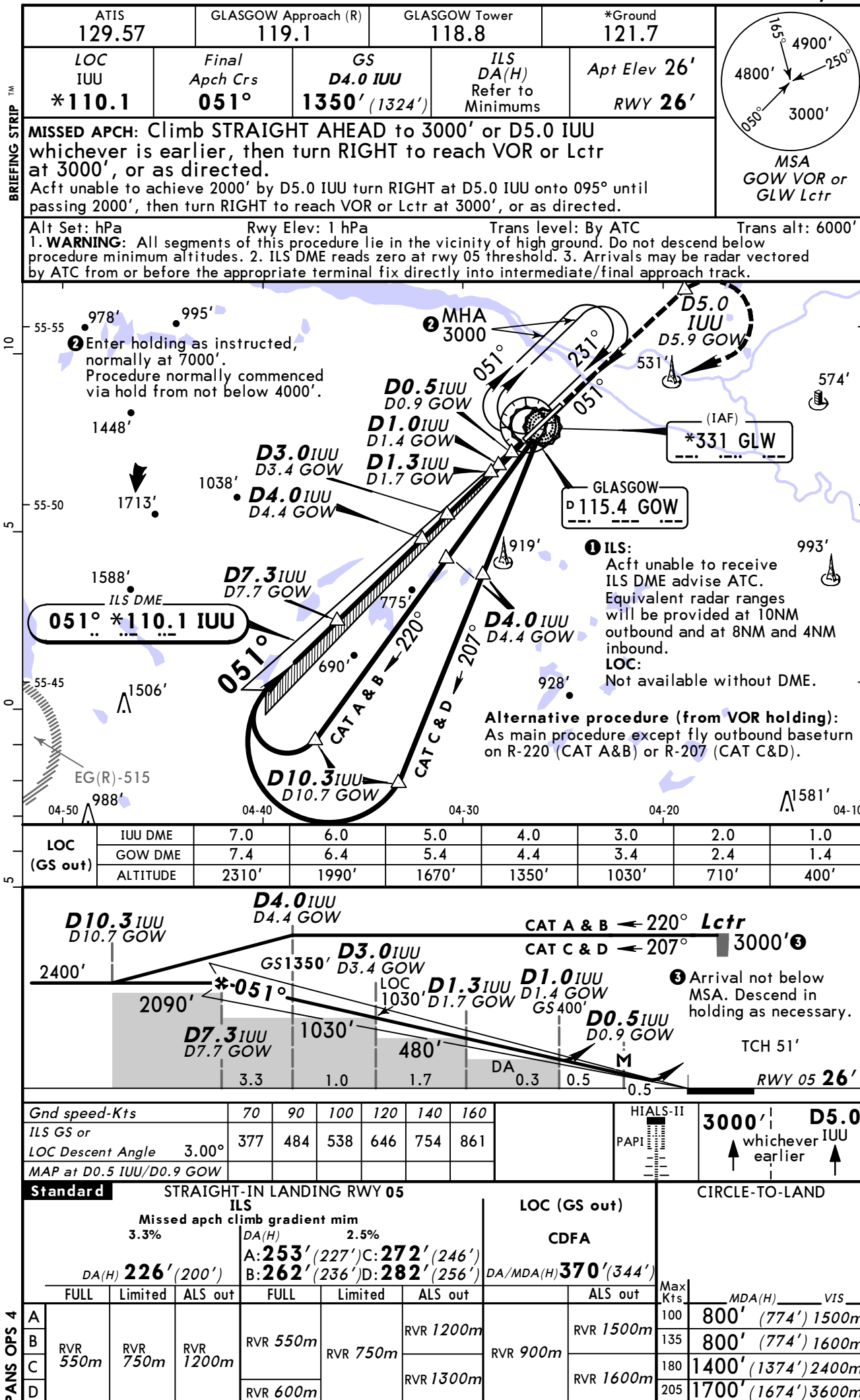
CIRCLE-TO-LAND	MDA(H)	VIS
	800' (774') ❸	1000m

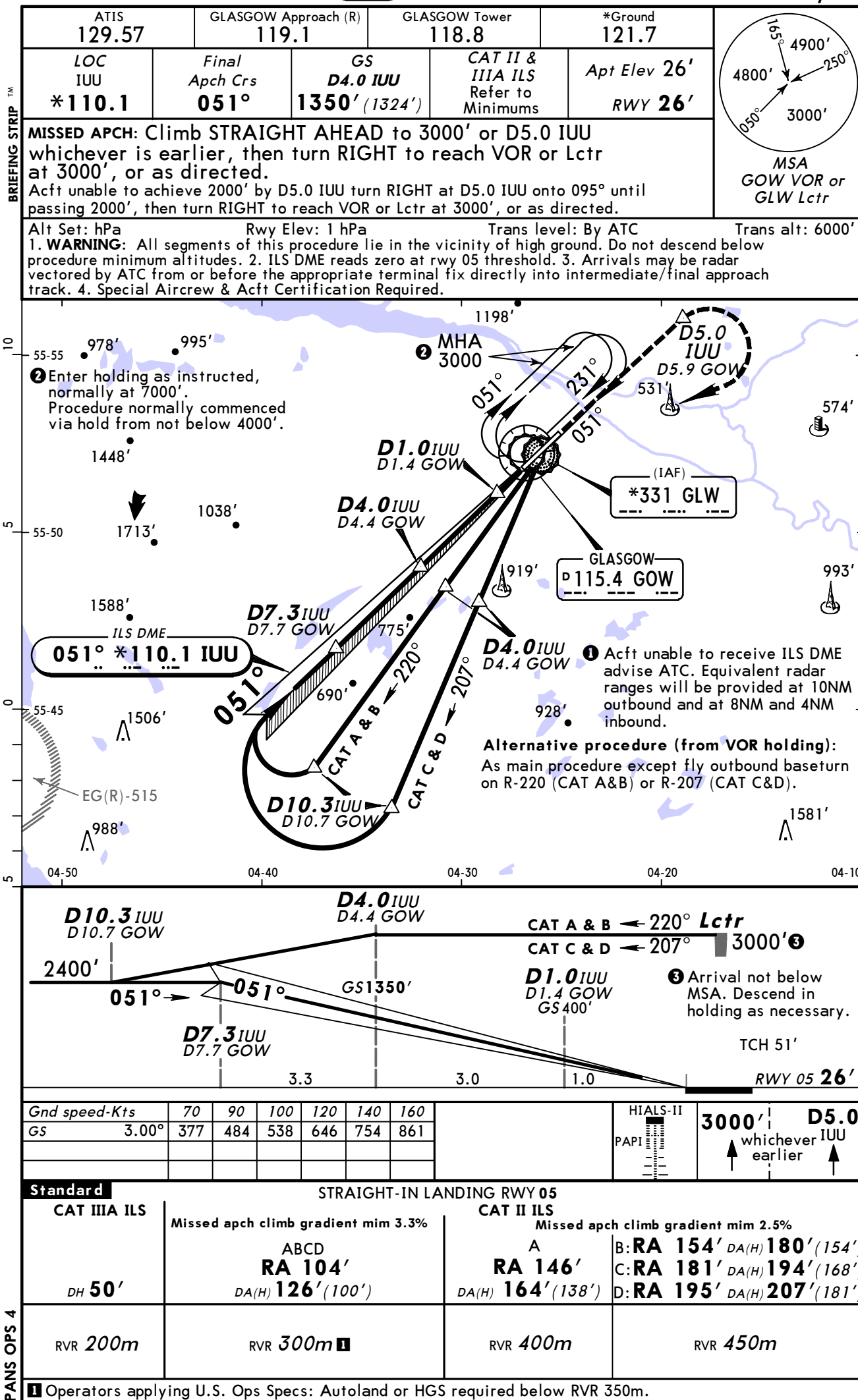
❸ After SRA 05: 1080' (1054').
After SRA 23: 810' (784').

TAKE-OFF RWY 05, 23				
LVP must be in Force ❹				
RL, FATO LTS, CL & RVR info	RL, FATO LTS & RCLM	Unlit/unmarked defined RWY/FATO	Nil Facilities DAY	Nil Facilities NIGHT
150m	200m	200m	250m ❺	800m

❹ Without LVP 400m are stipulated.

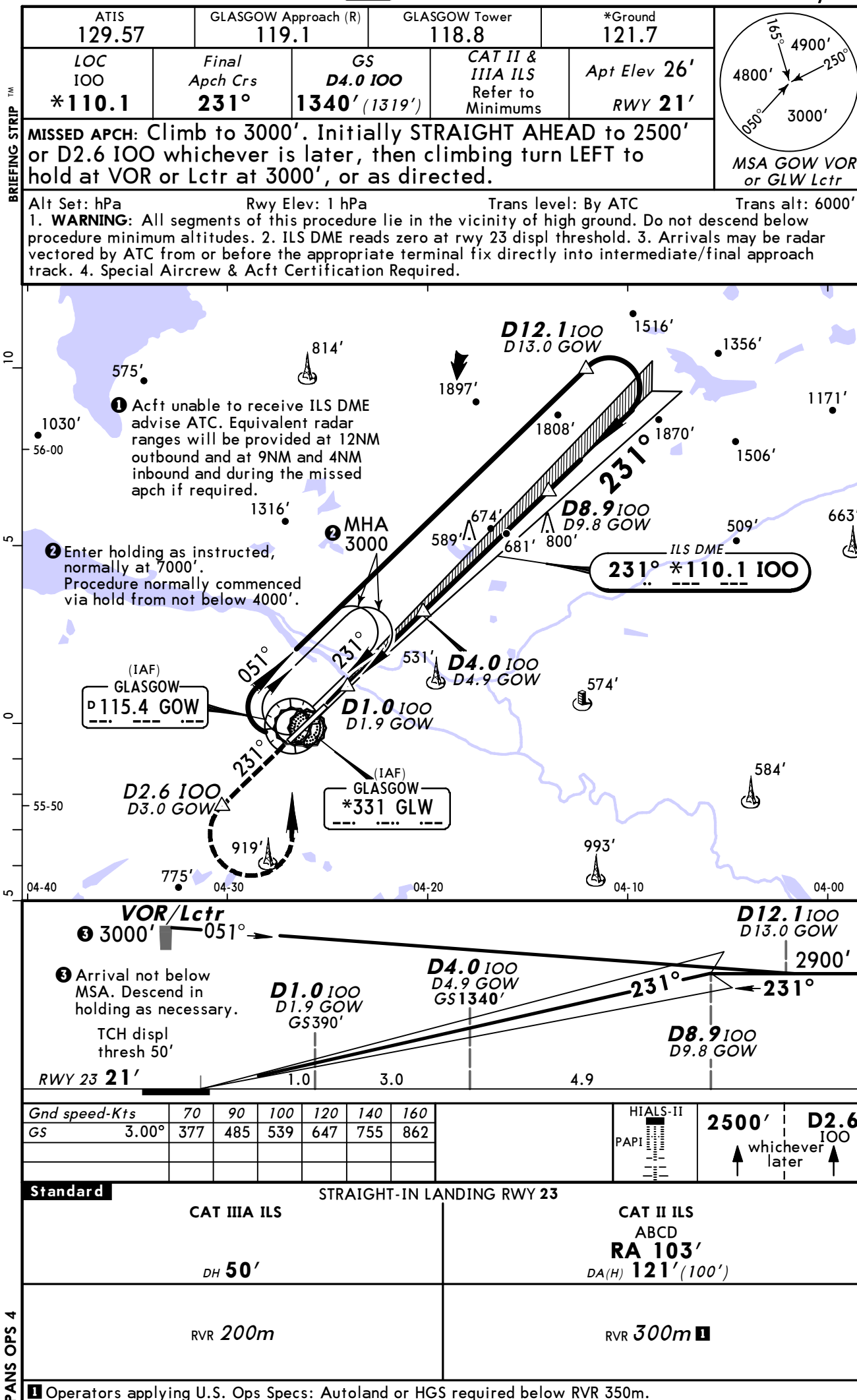
❺ Or rejected take-off distance whichever is the greater.





MSA GOW VOR
or GLW Lctr

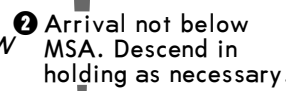
Trans alt: 6000'



MSA
GOW VOR

Trans alt: 6000'

1. **WARNING:** All segments of this procedure lie in the vicinity of high ground. Do not descend below procedure minimum altitudes. 2. ILS DME reads zero at rwy 05 threshold. 3. Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into intermediate/final approach track. 4. Final approach track offset 7° from rwy centerline.

5

HIALS-
PAPI

CIRCLE-TO-LAND

DA/MDA(H) **510'** (484')

Max
Kts

VIS

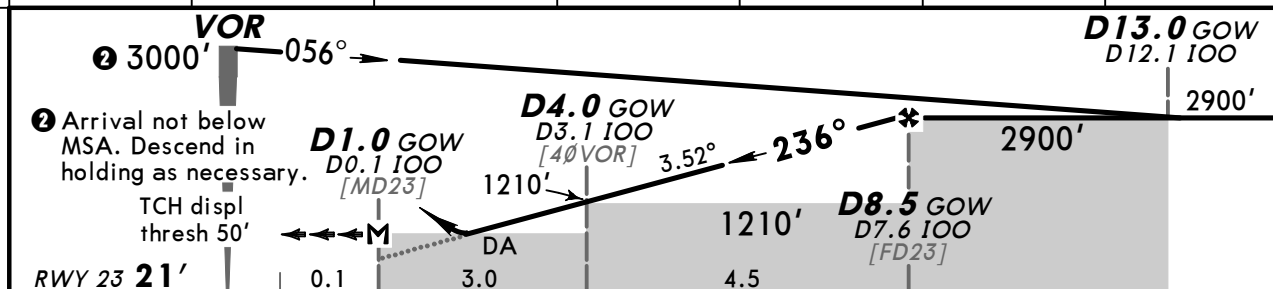
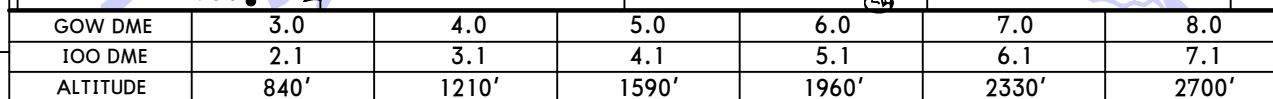
PANS OPS 4

MSA
GOW VOR

MSA
GOW VOR

Trans alt: 6000'

1. **WARNING:** All segments of this procedure lie in the vicinity of high ground. Do not descend below procedure minimum altitudes. 2. ILS DME reads zero at runway 23 displacement threshold. 3. Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into intermediate/final approach track. 4. Final approach track offset 6° from runway centerline.

[illegible]

CIRCLE-TO-LAND

DA/MDA(H) **610'** (589')

ALS out

Max Kts	100
---------	-----

_____ $MDA(H)$

VIS

800' (774') 1500m

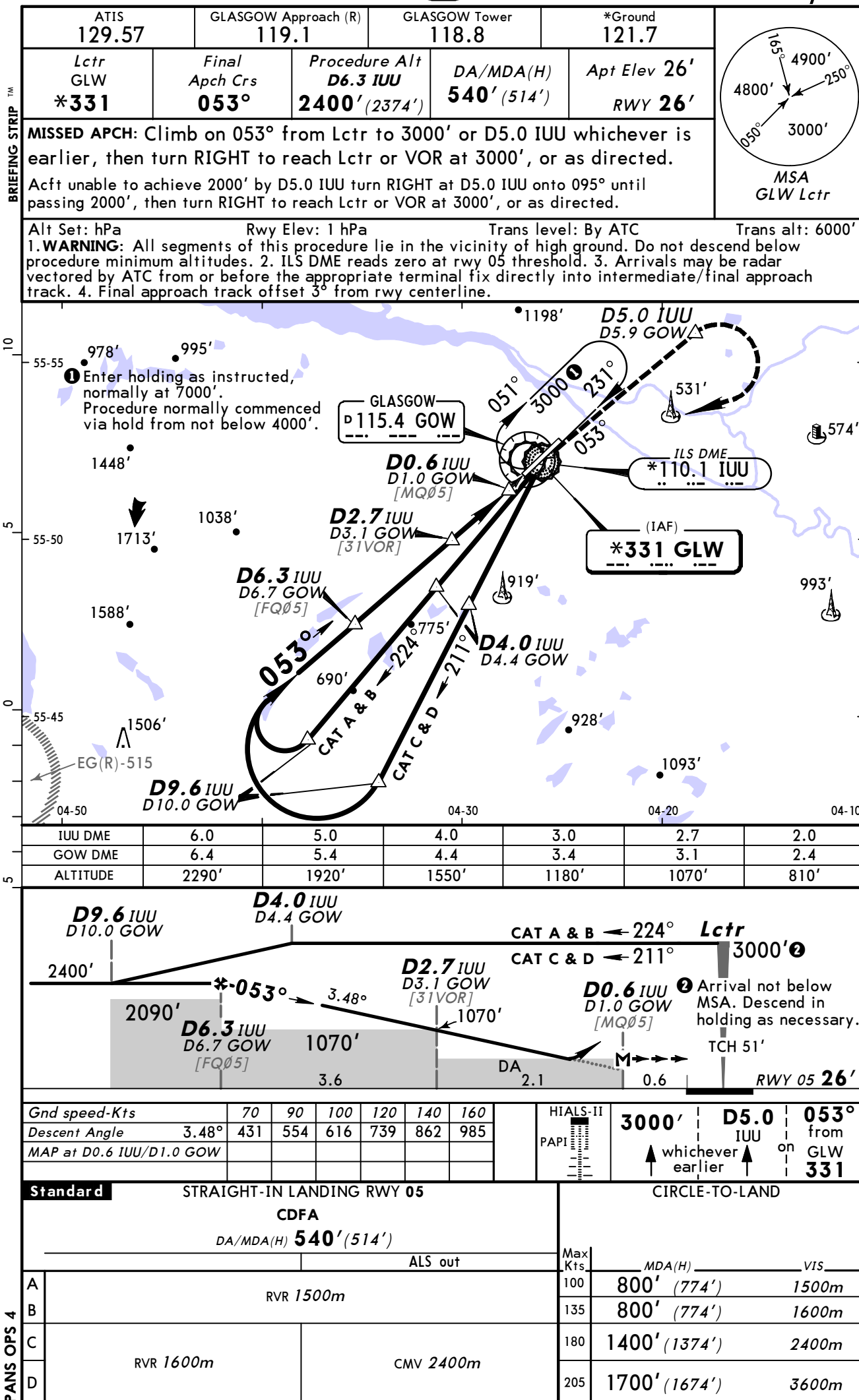
800' (774') 1600m

CMV 2400m

1400' (155 ft) 3100

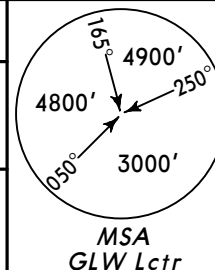
1400 (1374')	2400m
--------------	-------

D	205	1700' (1674')	3600m
---	-----	---------------	-------

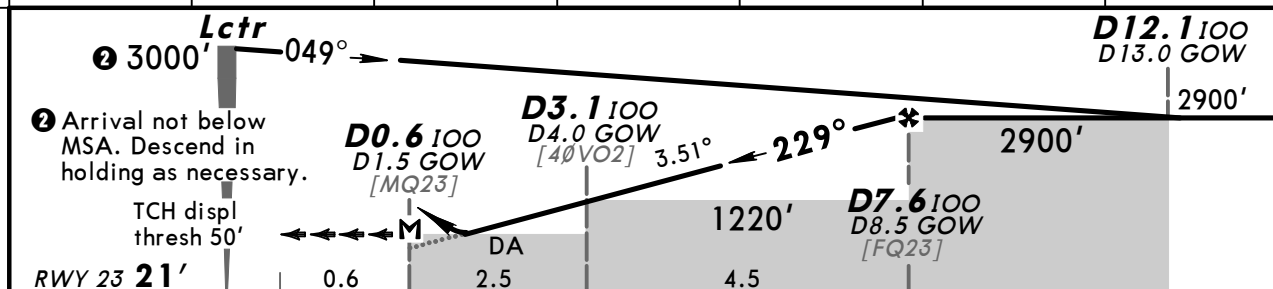
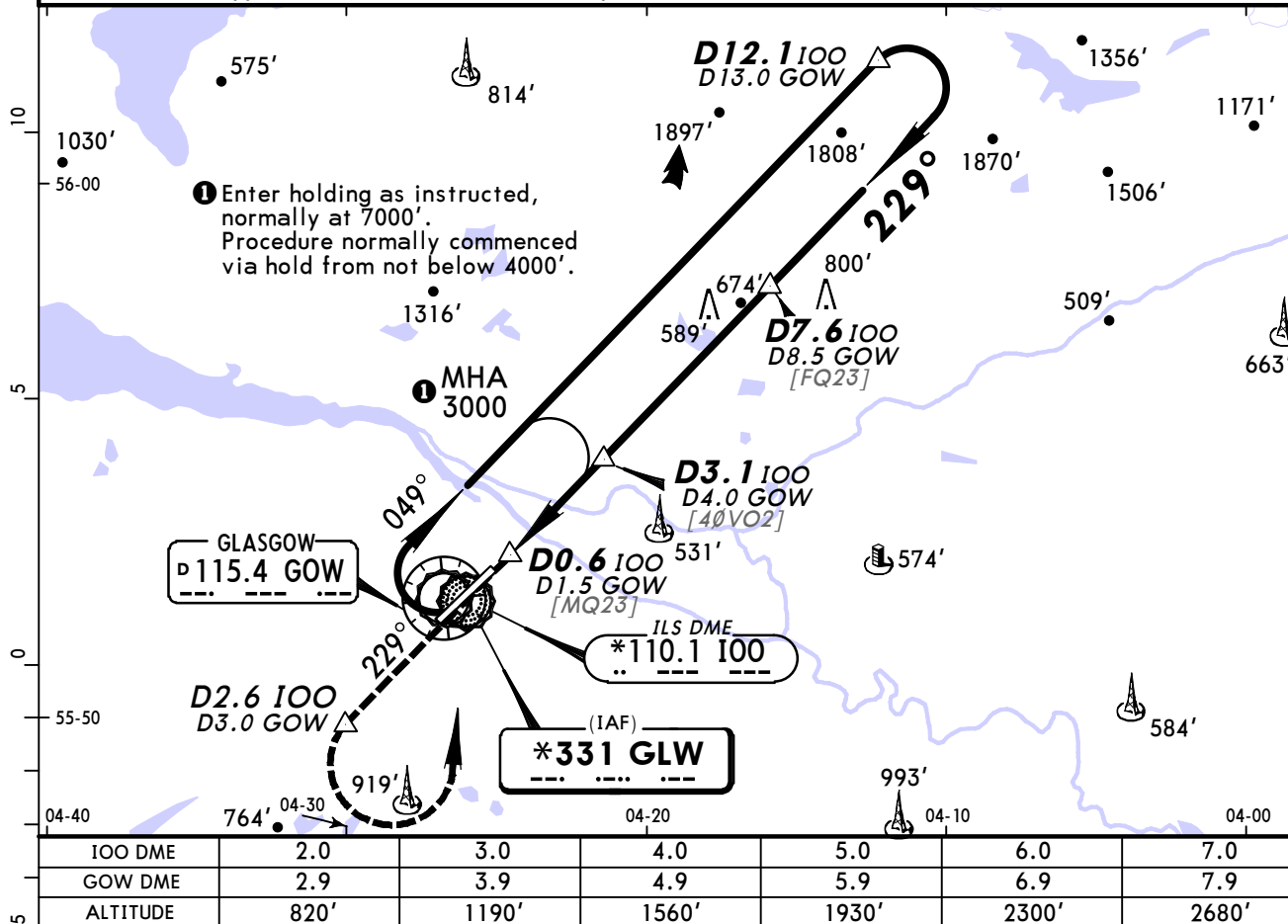


ATIS 129.57	GLASGOW Approach (R) 119.1	GLASGOW Tower 118.8	*Ground 121.7
Lctr GLW *331	Final Apch Crs 229°	Procedure Alt D7.6 100 2900' (2879')	DA/MDA(H) 610' (589')
			Apt Elev 26' RWY 21'

MISSED APCH: Climb to 3000'. Initially on 229° from Lctr to 2500' or D2.6 100 whichever is later, then climbing turn LEFT to hold at Lctr at 3000', or as directed.

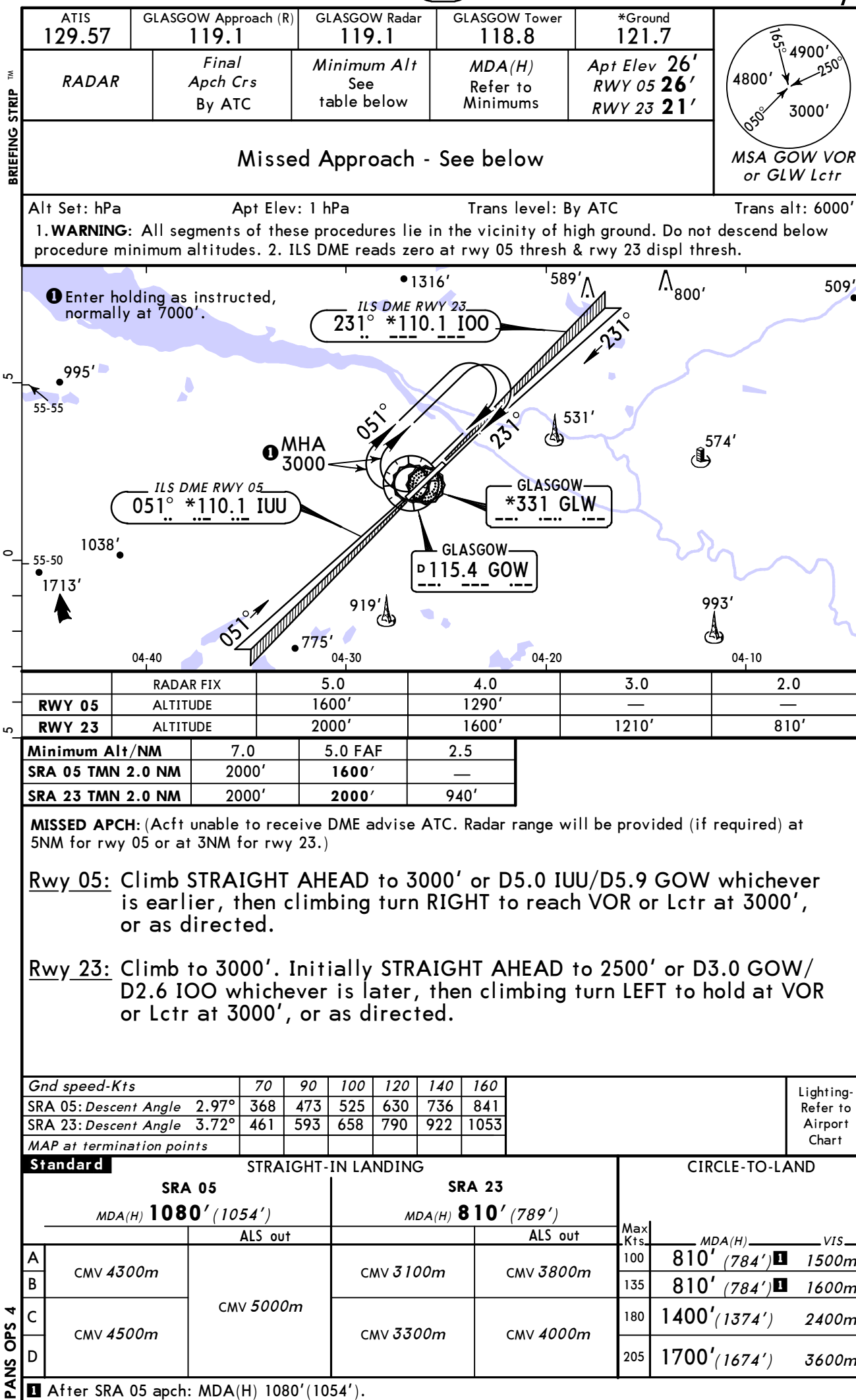


Alt Set: hPa Rwy Elev: 1 hPa Trans level: By ATC Trans alt: 6000'
1. **WARNING:** All segments of this procedure lie in the vicinity of high ground. Do not descend below procedure minimum altitudes. 2. ILS DME reads zero at rwy 23 displ threshold. 3. Arrivals may be radar vectored by ATC from or before the appropriate terminal fix directly into intermediate/final approach track. 4. Final approach track offset 2° from rwy centerline.



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II	2500'	D2.6 100	229°
Descent Angle	3.51°	435	559	621	745	870	994	PAPI	↑ whichever later	↑ on GLW
MAP at D0.6 100/D1.5 100										331

Standard				STRAIGHT-IN LANDING RWY 23				CIRCLE-TO-LAND			
CDFA				DA/MDA(H) 610' (589')				Max Kts			
ALS out											
A	RVR 1500m										
B											
C	RVR 2000m				CMV 2400m						
D											



GLASGOW, (GLASGOW - EGPF)

TERMINAL CHART CHANGE NOTICES

No Chart Change Notices for Airport EGPF