

List of pages in this Trip Kit

Trip Kit Index

Airport Information For EGBB

Terminal Charts For EGBB

Revision Letter For Cycle 13-2014

Change Notices

Notebook

General Information

Location: Birmingham Gbr
IATA Code: BHX
Lat/Long: N52° 27.2' W001° 44.9'
Elevation: 341 ft

Airport Use: Public
Magnetic Variation: 1.8°W

Fuel Types: Jet A-1
Repair Types: Minor Airframe, Minor Engine
Customs: Yes
Airport Type: IFR
Landing Fee: Yes
Control Tower: Yes
Jet Start Unit: No
LLWS Alert: No
Beacon: No
Pattern Altitude: 1000 ft AGL

Sunrise: 0344 Z
Sunset: 2034 Z,

Runway Information

Runway: 15
Length x Width: 10013 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 313 ft
Lighting: Edge, ALS, Centerline, TDZ
Displaced Threshold: 952 ft

Runway: 33
Length x Width: 10013 ft x 148 ft
Surface Type: asphalt
TDZ-Elev: 328 ft
Lighting: Edge, ALS, Centerline, TDZ
Displaced Threshold: 1486 ft

Communication Information

ATIS 136.025
Birmingham Ground Tower 121.8
Birmingham Tower 118.3
Birmingham Approach Control 131.0
Birmingham Approach Control 118.05
Birmingham Radar 131.325
Birmingham Radar 118.05

1. GENERAL

1.1. ATIS

ATIS 136.02

1.2. NOISE ABATEMENT PROCEDURES

1.2.1. GENERAL

All ACFT inbound or outbound from this aerodrome are required to conform to the following procedures; notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

Every operator of ACFT using the aerodrome shall ensure at all times that ACFT are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the aerodrome.

Unless on radar vectors, ACFT shall avoid the congested areas of Hampton-in-Arden and Balsall Common to the Southeast of the aerodrome and Dorridge, Knowle and Hockley Heath to the Southwest of the aerodrome.

1.2.2. NIGHT JET RESTRICTIONS/ALLOCATIONS

Birmingham APT operates a NIGHT jet Policy restricting operations of certain types of ACFT during the periods between 2300-0600LT (0800LT Sundays). Full details are available from the Airfield Duty Manager.

ACFT with a noise classification of 96 EPNdB or more must not operate during the NIGHT period. Dispensation to do so within strict guidelines must be sought from the Airfield Duty Manager.

All movements recording a level above 102 EPNdB, 6.5 km from 'start of roll' during the NIGHT period will be subject to a RWY surcharge.

Records of NIGHT infringements are available on request from the Birmingham Airport Environment Unit.

1.2.3. RUN-UP TESTS

Restrictions are imposed on the ground running of engines in the interests of noise abatement and operators are advised to contact the Airfield Duty Manager (0121-7677139).

1.2.4. AUXILIARY POWER UNITS (APUs)

Except for stands not equipped with a serviceable Fixed Electrical Ground Power Unit, APU must be shut down immediately on arrival on stand and not restarted more than 30 minutes prior to departure without permission from the aerodrome operator.

Except in an emergency, no ACFT activities involving the running of APUs shall take place on the aprons between 2300-0600LT, unless such activities are necessary in the case of an ACFT which has landed at the aerodrome before 2330LT.

1.3. LOW VISIBILITY PROCEDURES

1.3.1. GENERAL

During CAT II/III operations, special ATC procedures (ATC Low Visibility Procedures) will be applied. Pilots will be informed via ATIS or RTF when these procedures are in operation.

1.3.2. ARRIVAL

Pilots should delay the call "Runway vacated" until ACFT is clear of amber and green coded section of TWY lead-off lights.

ACFT should note that all appropriate RWY exits are illuminated.

Pilots should select the first convenient exit unless advised by ATC.

1.3.3. DEPARTURE

ATC will require ACFT to use CAT II/III holding points.

1. GENERAL

1.4. TAXI PROCEDURES

1.4.1. GENERAL

Use MIM power setting when manoeuvring.

Marshalling is mandatory for all ACFT parking on the Elmdon Apron.

Code E ACFT will be provided with Follow-me guidance when entering TWY F.

TWY D adjacent to stands 42L and 54R MAX wingspan 138'/42m.

1.4.2. A380 ACFT OPERATIONS

Use of APT as an alternate for A380 operations is also subject to UK CAA approval on an individual airline basis.

Follow-me will be provided for all movements.

Departing ACFT must use CAT III RWY holds at all times.

1.5. PARKING INFORMATION

1.5.1. GENERAL

All stands are nose-in/push-back.

1.5.2. AUXILIARY POWER UNIT (APU)

Fixed Electrical Ground Power must be used whenever available and serviceable. Use of APUs and diesel Ground Power Units is subject to strict controls as set out in published APT regulations. APUs should be shut down as soon as practicable following arrival and not restarted until 30 min prior to departure.

1.5.3. DOCKING GUIDANCE SYSTEMS

Stands 1 thru 4 have directional information provided by SAFEDOCK docking guidance system.

Stands 5 thru 7 and 10 thru 12 have directional information provided by mirror.

Stand 8L, 8R, 8C and 14 thru 16 have directional information provided by marshaller's instructions.

Stands 8R, 8C and 14 thru 16 are provided with an apron drive airbridge.

Stand 13 has directional information provided by AGNIS and mirror.

Stands 20 thru 25, 62 thru 86R and Elmdon Apron (stands 501 thru 506) will be under marshaller's instruction.

Stands 40, 41C, 42C, 54C thru 56C, 56R, 57C, 57R, 58 and 59 have directional information provided by SAFEDOCK docking guidance system and are provided with an apron drive airbridge.

Stands 41L, 41R, 42L, 42R, 56L and 57L have directional information provided by SAFEDOCK docking guidance system.

Stands 60 and 61 have directional information provided by AGNIS and PAPA.

Pilots of light ACFT not using full stand facilities should await marshaller's instructions before proceeding onto stand.

Mirror, AGNIS and PAPA stand entry guidance are all calibrated for use from the LEFT-hand seat.

Safedock Visual Docking Guidance may be used from either seat.

1.6. OTHER INFORMATION

Birds in vicinity of APT.

RWY 33 right-hand circuit.

Warning: Unauthorised ground-based laser lights have been directed towards ACFT in vicinity of APT. All incidents should be reported immediately via Tower to Airport Authority.

2. ARRIVAL

2.1. SPEED RESTRICTIONS

Pilots should typically expect the following speed restrictions to be enforced:

- 220 KT from the holding facility during the initial approach phase;
- 180 KT on base leg/closing heading to the final apch;
- between 180 KT and 160 KT when established on the final apch;
and thereafter 160 KT to D4.0.

These speeds are applied for ATC separation purposes and are mandatory. In the event of a new (non-speed related) ATC clearance being issued (e.g. an instruction to descend on ILS), pilots shall continue to maintain a previously allocated speed. All speed restrictions are to be flown as accurately as possible. ACFT unable to conform to these speeds should inform ATC and state what speeds can be used. In the interests of accurate spacing, pilots are requested to comply with speed adjustments as promptly as feasible within their own operational constraints, advising ATC if circumstances necessitate a change of speed for ACFT performance reasons.

2.2. NOISE ABATEMENT PROCEDURES

2.2.1. General

All ACFT inbound or outbound from this AD are required to conform to the following procedures; notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

Every operator of ACFT using the AD shall ensure at all times that ACFT are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the AD.

Unless on radar vectors, ACFT shall avoid the congested areas of Hampton-in-Arden and Balsall Common to the Southeast of the AD and Dorridge, Knowle and Hockley Heath to the Southwest of the AD.

2.2.2. ILS Approaches

Unless otherwise instructed by ATC, ACFT using the ILS in IMC or VMC shall not descend below 2000' before intercepting the GS nor fly below the GS thereafter. An ACFT approaching without assistance from ILS or radar shall follow a descent path which will not result in its being at any time lower than the approach path which would be followed by an ACFT using the ILS GS.

2.2.3. Visual Circuits Approaches

2.2.3.1. Propeller driven ACFT MTWA 5700 kg or less

For ACFT in this category, the minimum altitude for joining the final approach track shall be 1330' for all approaches

2.2.3.2. All other ACFT

All ACFT carrying out visual circuits/approaches to RWYs 33 and 15 shall not, unless instructed by ATC, descend below 2510' on the downwind legs until they are abeam the AD, after which a continuous rate is to be maintained.

ACFT must not join the final approach track to any RWY at an altitude of less than 1830', except when carrying out a right hand visual circuit to RWY 33 when the minimum altitude for joining the final approach track will be 1230'.

2.2.4. Reverse Thrust

To minimise disturbance in areas adjacent to the AD, captains are requested to avoid the use of reverse thrust after landing, consistent with safe operation of the ACFT, especially between 2300-0700LT.

2. ARRIVAL

2.2.5. Continuous Descent Approach (CDA)

Turbo-jet and turbo-prop ACFT are expected to apply continuous descent, low power, low drag approach techniques at all times.

Subject to ATC instructions, inbound ACFT are to maintain as high an altitude as practical and adopt a low power, low drag, CDA profile. ATC will provide estimated track distance to touchdown to allow pilots to descend at a rate they judge best suited to achieve continuous descent without using more power or drag than necessary. The object will be to join the GP at the appropriate height for the distance without level flight.

To facilitate these techniques ACFT should be flown no faster than 250 KT from the SLP and below FL100 and 250 KT-210 KT during the intermediate approach phase.

Thereafter speed should be managed so as to achieve a continuous descent using as little power or drag as possible. ATC may impose speed control if required for separation purposes.

CDAs will commence from 6000'. ATC will provide regular range checks. Pilots who require additional track mileage to facilitate a successful CDA should inform ATC as soon as the requirement is apparent.

2.3. CAT II/III OPERATIONS

RWYs 15 and 33 approved for CAT II/III operations, special aircrew & ACFT certification required.

2.4. RWY OPERATIONS

After landing on RWY 15 and vacating onto TWY C, no ACFT is to proceed beyond C2 without specific ATC instructions.

2.5. OTHER INFORMATION

2.5.1. General

WARNING: When landing on RWY 15 or 33, building induced turbulence and wind shear effects possible.

2.5.2. COMMUNICATION FAILURE DURING MISSED APCH

Landing direction 150°:

Climb AHEAD to 1000'. Turn RIGHT onto 169° to 2500' or D4.0 IBIR, whichever is later, then turn LEFT to BHX NDB.

Landing direction 330°:

Climb AHEAD to 2500' or D2.0 IBM, whichever is later, then procedure turn RIGHT to BHX NDB.

3. DEPARTURE

3.1. SPEED RESTRICTIONS

MAX 250 KT below FL100 unless cleared otherwise. ATC removes limitations by the phrase 'No ATC speed restriction'. This phrase must not be interpreted as relieving the pilot of his responsibility for the observance of any speed-power limitations due to noise abatement procedures.

3.2. NOISE ABATEMENT PROCEDURES

3.2.1. General

All ACFT inbound or outbound from this AD are required to conform to the following procedures; notwithstanding that these may at any time be departed from to the extent necessary for avoiding immediate danger.

Every operator of ACFT using the AD shall ensure at all times that ACFT are operated in a manner calculated to cause the least disturbance practicable in areas surrounding the AD.

3. DEPARTURE

Unless on radar vectors, ACFT shall avoid the congested areas of Hampton-in-Arden and Balsall Common to the Southeast of the AD and Dorridge, Knowle and Hockley Heath to the Southwest of the AD.

3.2.2. TAKE-OFF AND MISSED APPROACHES

Every jet ACFT using the AD shall, after take-off or 'go-around' attain as soon as safety permits, a rate of climb of at least 500' per minute at power settings which will ensure progressively decreasing noise levels at points under the flight path.

3.2.3. NOISE PREFERENTIAL ROUTINGS

The Noise Preferential Routings given below are compatible with ATC requirements and shall apply in both VMC and IMC. The tracks are to be flown by all departing jet ACFT and by all other ACFT with a maximum certified weight not exceeding 5700 kg unless otherwise instructed by ATC or unless deviations are required in the interests of safety. The use of the route is supplementary to noise abatement take-off techniques.

After take-off, pilots should ensure that they are at a minimum altitude of 841' before initiating any turn.

Take-off RWY 15:

Climb straight ahead to IBIR 1.5 DME or 841', whichever is later, then

- LEFT turn to a track of less than 060°: turn LEFT as instructed by ATC;
- LEFT turn to a track of greater than 060°: at IBIR 2 DME turn LEFT as instructed by ATC;
- RIGHT turn: at IBIR 4 DME turn RIGHT as instructed by ATC.

Aerodrome DME out of service:

Climb straight ahead to HON 4.5 DME or 841', whichever is later, then

- LEFT turn to a track of less than 060°: turn LEFT as instructed by ATC;
- LEFT turn to a track of greater than 060°: at HON 1.5 DME turn LEFT as instructed by ATC;
- RIGHT turn: at HON 1.5 DME turn RIGHT as instructed by ATC.

Take-off RWY 33:

Climb straight ahead to IBM 2 DME or 841', whichever is later, then

- either LEFT or RIGHT turn out: at IBM 2 DME turn as instructed by ATC.

Aerodrome DME out of service:

Climb straight ahead to HON 9 DME or 841', whichever is later, then

- either LEFT or RIGHT turn out: at HON 9 DME turn as instructed by ATC.

Directions of turn onto course shall be such that as far as possible the surrounding built-up areas will be avoided.

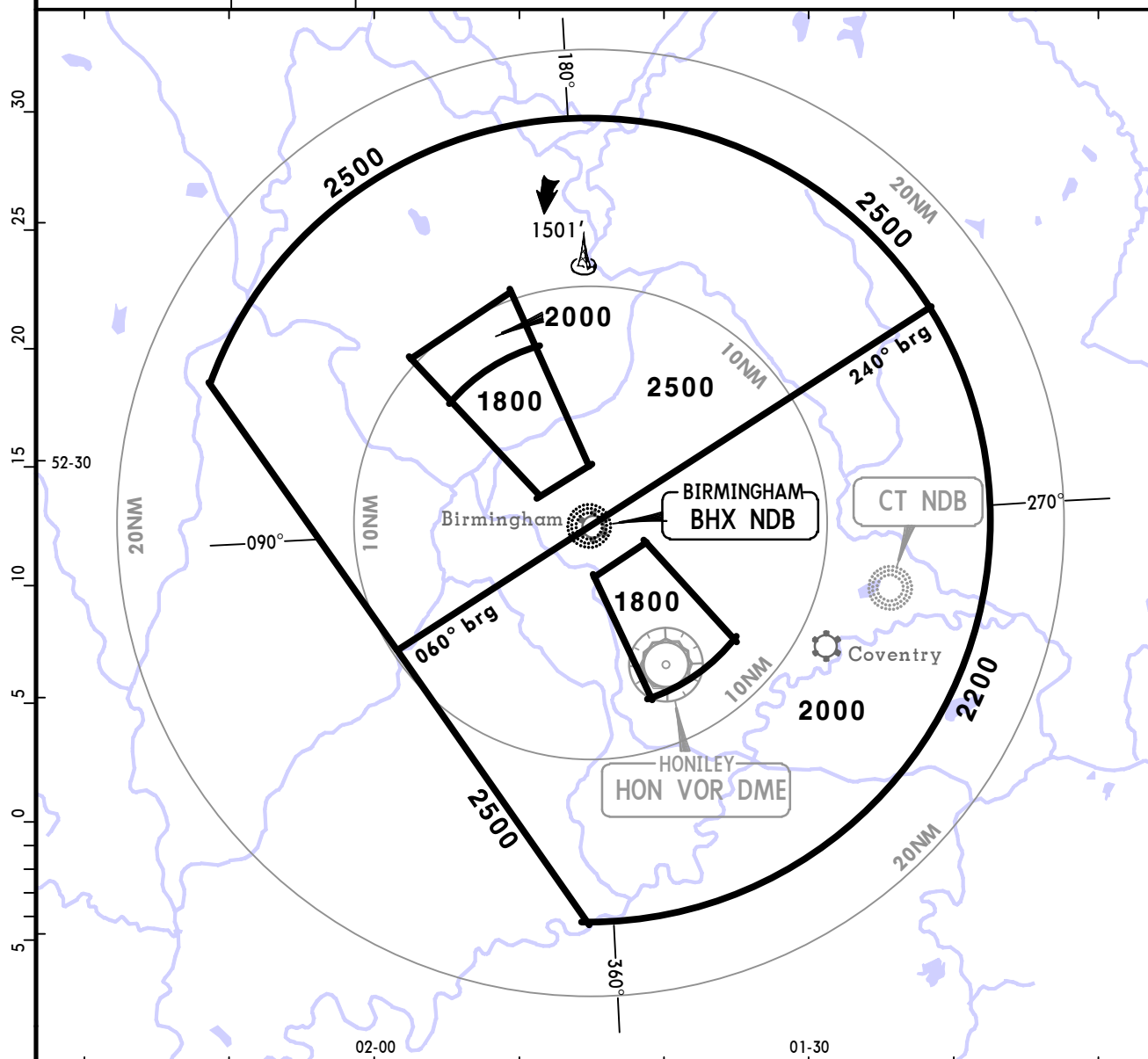
Speed Limit - Take-off RWY 15: for Trent and Whitegate SIDs, a speed limit no greater than 210 KT must be maintained until established on HON R-018. If ACFT are unable to comply, please advise ATC for alternative instructions.

Except in emergency and for safety reasons, no ACFT movements or activities involving the running of ACFT engines shall take place on or along the first 100m of RWY 15, TWY A or TWY B North of Hold A6 between 2300-0700LT, unless the ACFT landed at the APT before 2300LT and is proceeding to the aprons. Pilots should note that in such circumstances RWY 15 TORA/ASDA/TODA will be reduced by 150m.

BIRMINGHAM Radar
118.05

Apt Elev
328'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'
This chart may only be used for cross-checking of altitudes
assigned when in receipt of an ATC surveillance service.



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 ❶ of the aircraft or
- within the sector 15 NM ❷ ahead of and within 20° either side of the aircraft's track.

3 NM ❶ or 10 NM ❷ 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 2500', or last assigned level if higher, to BHX.

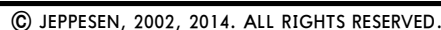
INTERMEDIATE AND FINAL APPROACH

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

When vectoring an aircraft within the Final Approach Vectoring Area descent clearance below the Surveillance Minimum Altitude Area to the Final Approach Vectoring Area altitude may only be issued if the aircraft is either established on the final approach track or on an intercept of 40° or less, and in the case of instrument approaches other than SRA is cleared to intercept the final approach track.

Alt Set: hPa Trans level: By ATC Trans alt: 6000'
Aircraft inbound from the FIR will normally be cleared by BIRMINGHAM
ATC to BHX.

WHEN HON VOR OR DME UNSERVICEABLE
REFER TO OLIVE STARS



ATIS
136.02

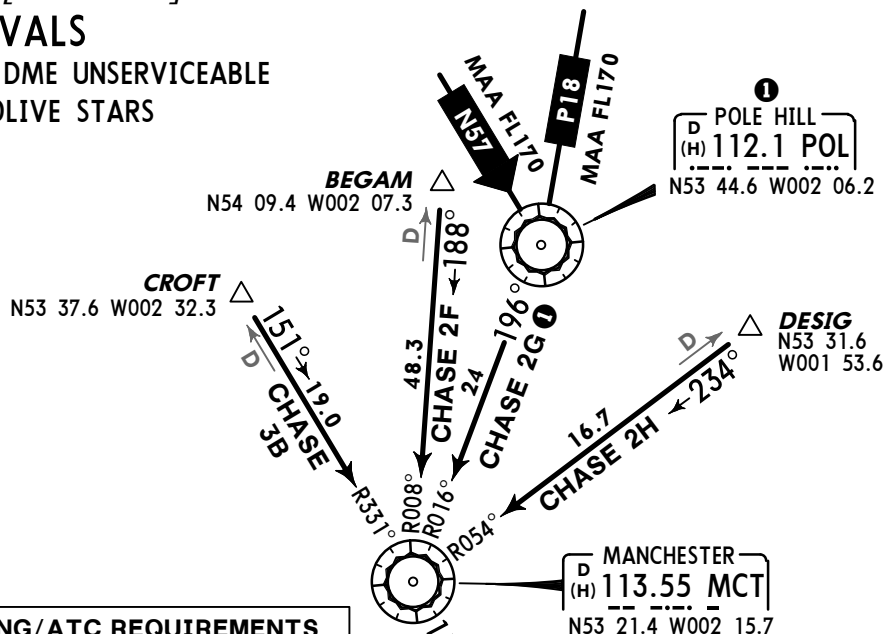
Apt Elev
341'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'
Aircraft inbound from the FIR will normally be cleared by BIRMINGHAM
ATC to BHX.

CHASE 3B [CHAS3B]
CHASE 2F [CHAS2F]
CHASE 2G [CHAS2G]
CHASE 2H [CHAS2H]

ARRIVALS

WHEN HON VOR OR DME UNSERVICEABLE
REFER TO OLIVE STARS



DESCENT PLANNING/ATC REQUIREMENTS

When determining top of descent point, pilots should plan for possible clearance as follows:

CHASE 3B, 2F: FL200 by MCT,
FL190 or below by D10 MCT,

CHASE 2H: FL280 by VEGUS,
FL200 by MCT,
FL190 or below by D10 MCT,

ALL STARS: FL80 by SLP.

Pilots unable to comply must notify ATC as soon as possible.

ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

WARNING

Do not proceed beyond CHASE without ATC clearance.

SPEED RESTRICTION

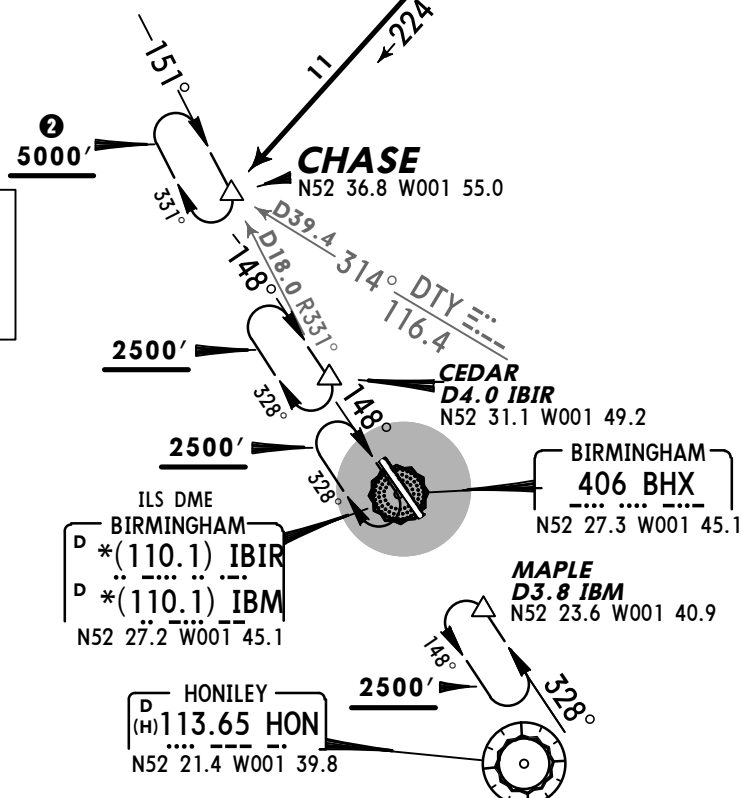
Cross SLPs or 3 Min before holding facility at 250 KT or less.

SLP Speed Limit Point

① CHASE 2G also available for traffic entering controlled airspace at POL.

② MAX 210 KT up to and including FL140, above FL140 ICAO holding speed applies.

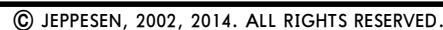
Direct distance from CHASE to:
Birmingham Apt 11 NM



Alt Set: hPa Trans level: By ATC Trans alt: 6000'
Aircraft inbound from the FIR will normally be cleared by BIRMINGHAM
ATC to BHX.

ARRIVALS

WHEN HON VOR OR DME UNSERVICEABLE
REFER TO CHARTS 10-2C AND 10-2D



ATIS
136.02

Apt Elev
341'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'
Aircraft inbound from the FIR will normally be cleared by BIRMINGHAM
ATC to BHX.

OLIVE 3A [OLIV3A]

OLIVE 1B [OLIV1B]

ARRIVALS

FROM SOUTH

**TO BE USED WHEN HON VOR OR DME UNSERVICEABLE
FOR OLIVE STARS FROM NORTHWEST REFER TO CHART 10-2D**



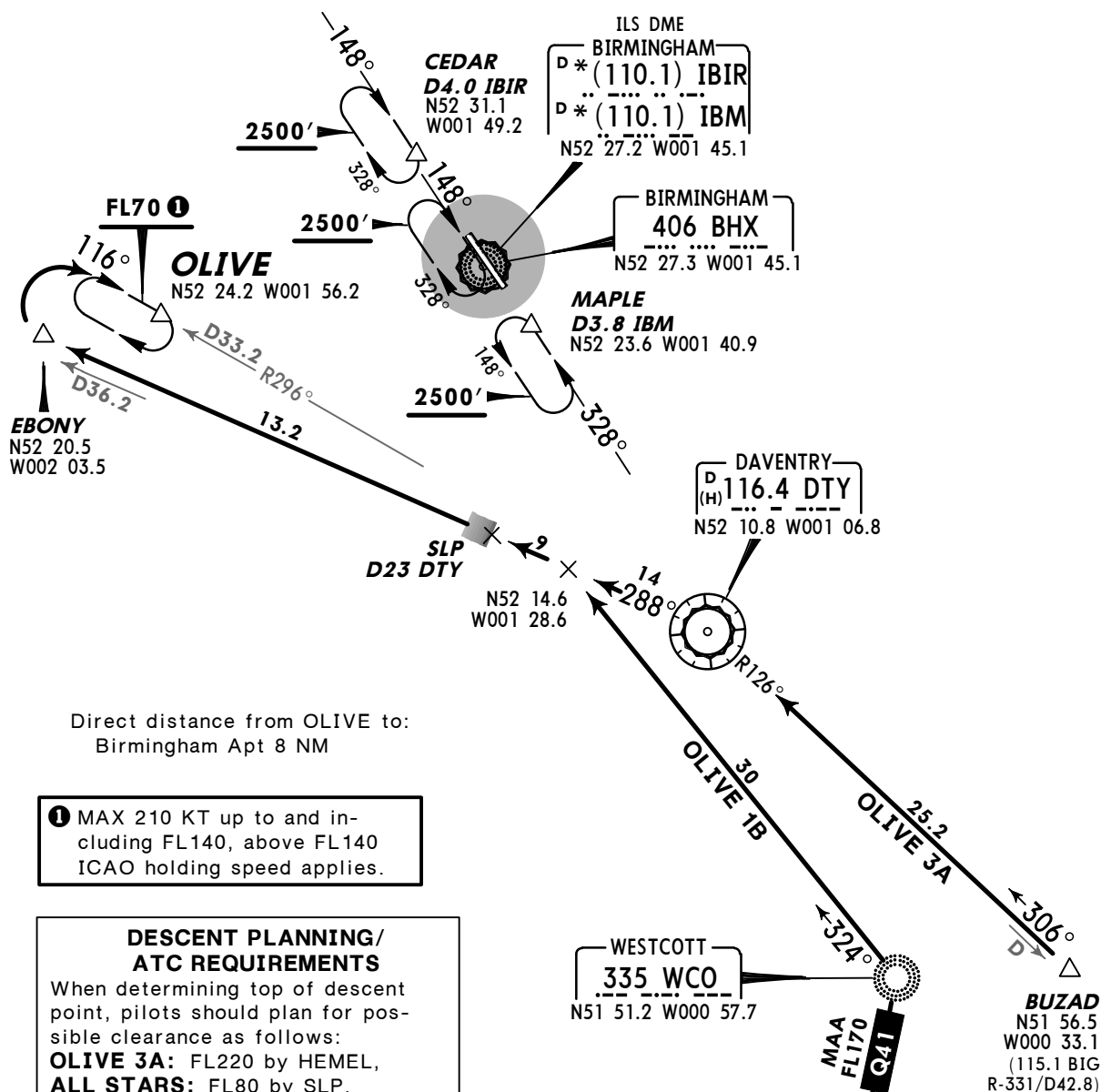
WARNING

Do not proceed beyond OLIVE
without ATC clearance.

SPEED RESTRICTION

Cross SLPs or 3 Min before
holding facility at 250 KT or less.

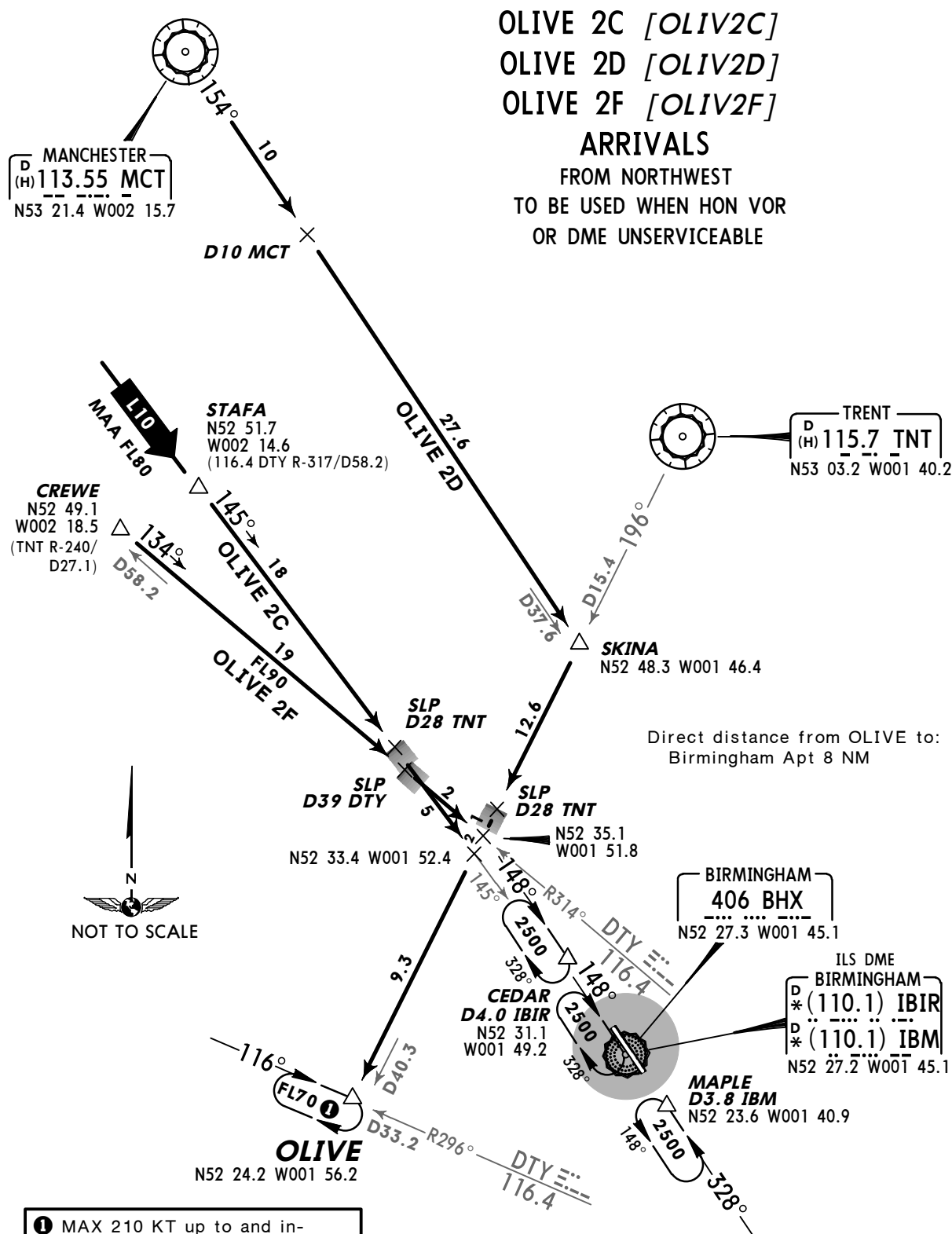
SLP Speed Limit Point



ATIS
136.02

Apt Elev
341'

Alt Set: hPa Trans level: By ATC Trans alt: 6000'
Aircraft inbound from the FIR will normally be cleared by BIRMINGHAM
ATC to BHX.



① MAX 210 KT up to and including FL140, above FL140 ICAO holding speed applies.

DESCENT PLANNING/ATC REQUIREMENTS

When determining top of descent point, pilots should plan for possible clearance as follows:

OLIVE 2D: FL200 by MCT,
FL190 or below by D10 MCT,

OLIVE 2F: FL200 by NOKIN,

ALL STARS: FL80 by SLP.

Pilots unable to comply must notify ATC as soon as possible.

ACTUAL DESCENT CLEARANCE WILL BE AS DIRECTED BY ATC.

WARNING

Do not proceed beyond OLIVE without ATC clearance.

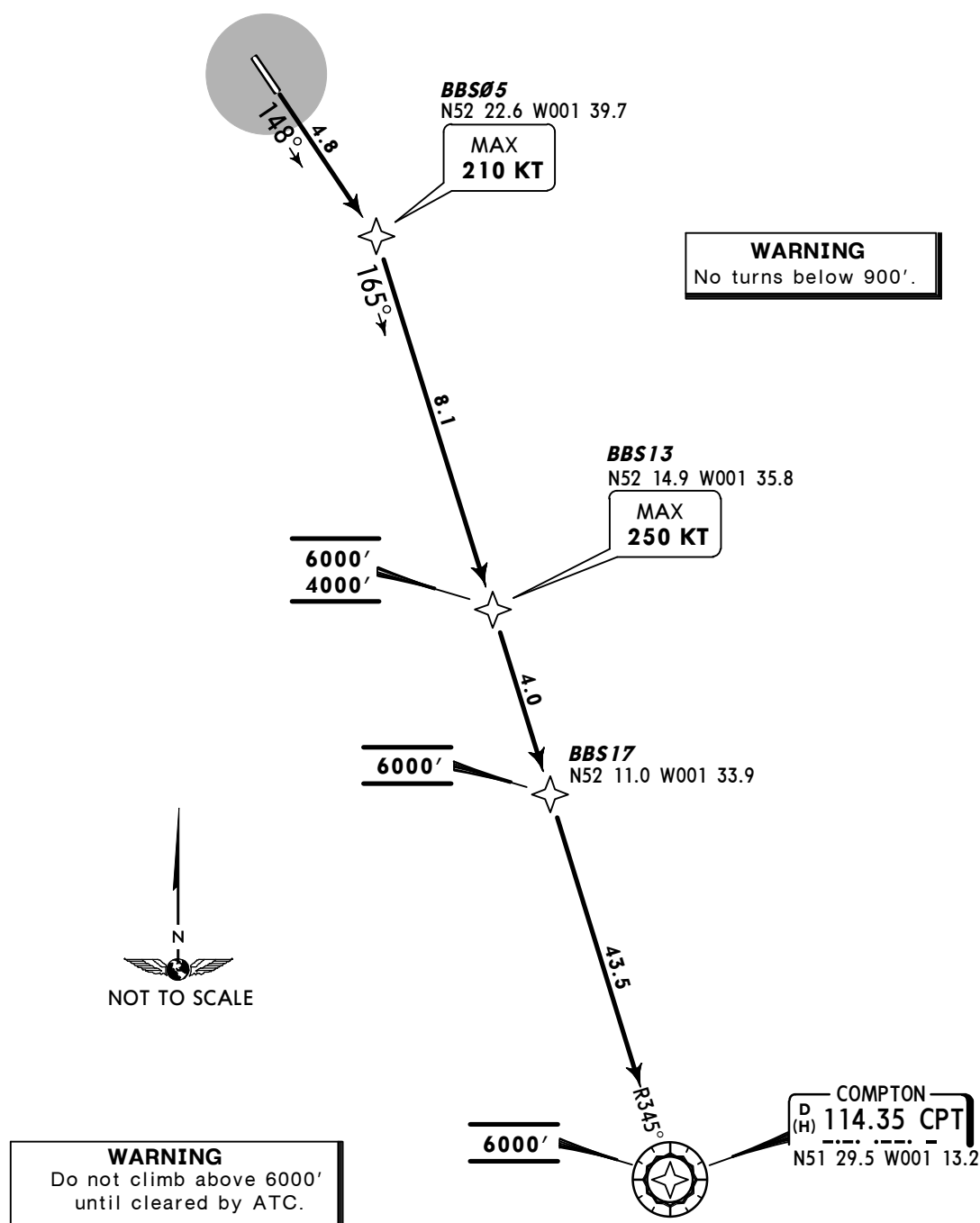
SPEED RESTRICTION

Cross SLPs or 3 Min before holding facility at 250 KT or less.

■ SLP Speed Limit Point

BIRMINGHAM Radar 118.05	<i>Apt Elev</i> 341'	Trans level: By ATC Trans alt: 6000' 1. After passing 2000' contact BIRMINGHAM Radar as soon as possible. 2. All RNAV SIDs include noise preferential routes. 3. Cruising levels will be issued after take-off by LONDON Control. 4. Adhere to maximum speed limits where specified by wpt constraints. 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability. 6. EXPECT close-in obstacles.
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CPT 1L
RWY 15 RNAV DEPARTURE
RNAV 1 (DME/DME OR GNSS)
ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED



ROUTING

Climb straight ahead to BBS05, turn RIGHT to BBS13 - BBS17 - CPT.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

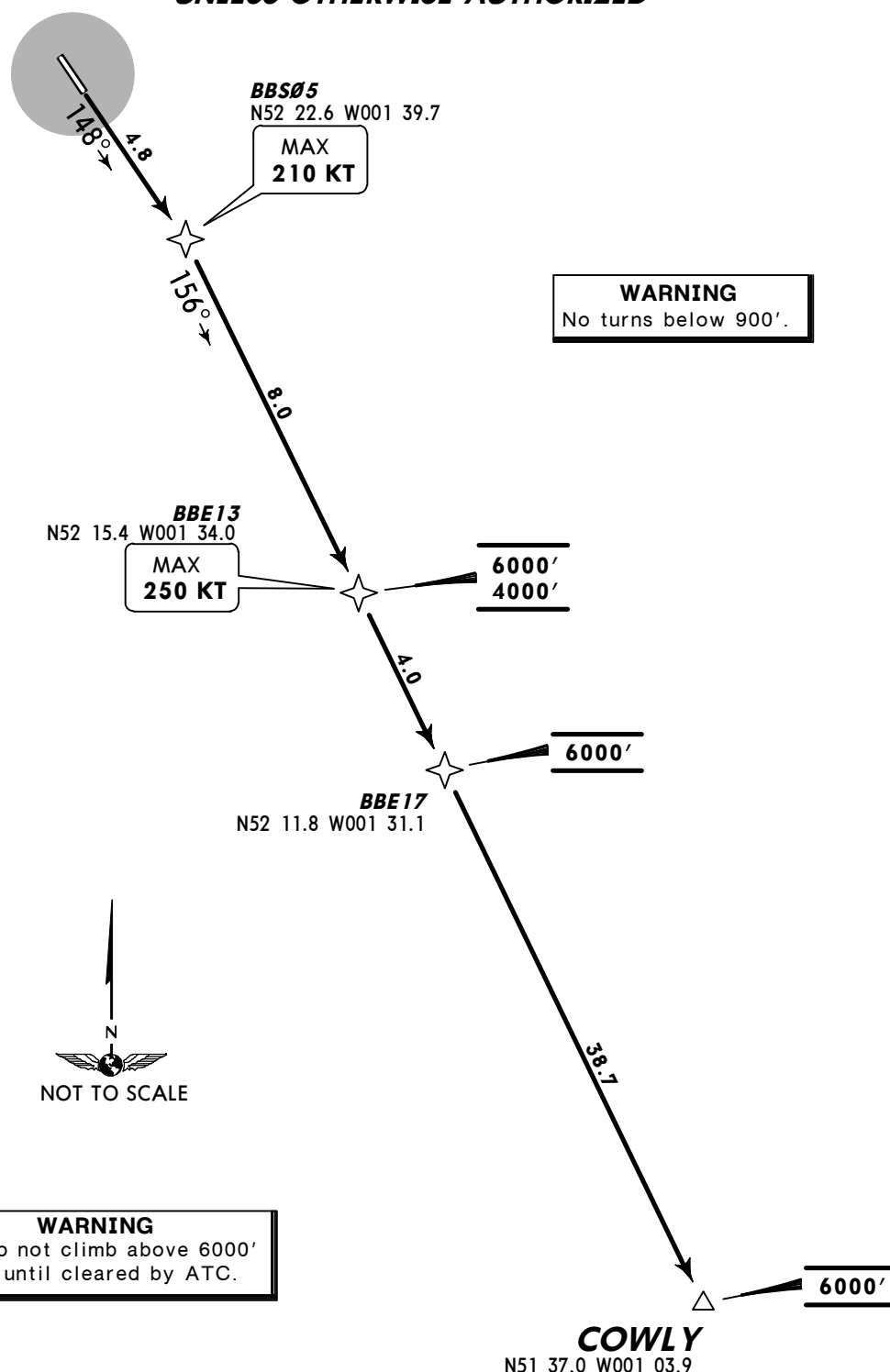
- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All RNAV SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by LONDON Control.
 4. Adhere to maximum speed limits where specified by wpt constraints.
 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.
 6. EXPECT close-in obstacles.

COWLY 1L [COWL1L] RWY 15 RNAV DEPARTURE

RNAV 1 (DME/DME OR GNSS)

ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT

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



ROUTING

Climb straight ahead to BBS05, turn RIGHT to BBE13 - BBE17 - COWLY.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

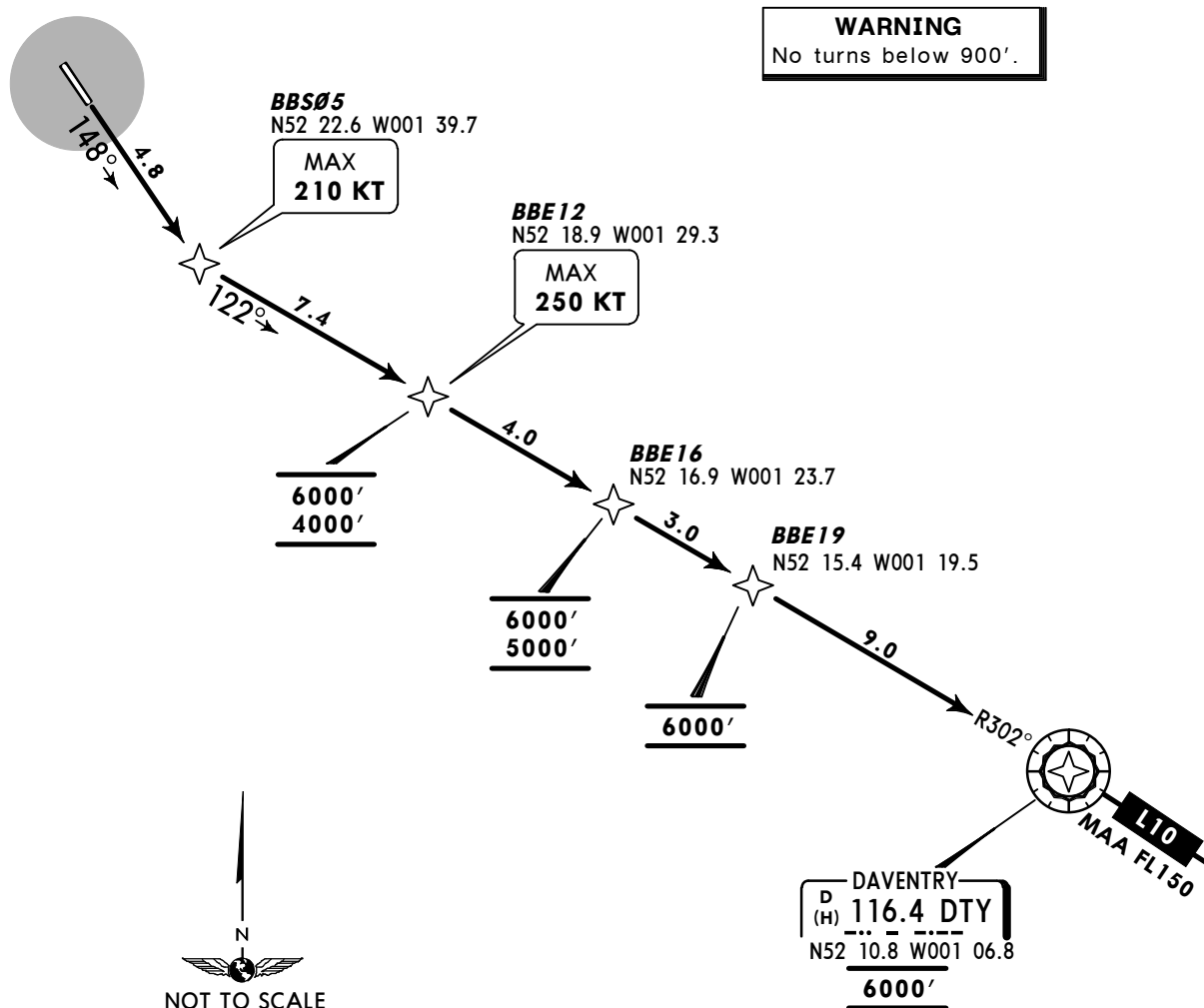
- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All RNAV SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by LONDON Control.
 4. Adhere to maximum speed limits where specified by wpt constraints.
 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.
 6. EXPECT close-in obstacles.

DTY 1L RWY 15 RNAV DEPARTURE

RNAV 1 (DME/DME OR GNSS)

ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT

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



ROUTING

Climb straight ahead to BBS05, turn LEFT to BBE12 - BBE16 - BBE19 - DTY.

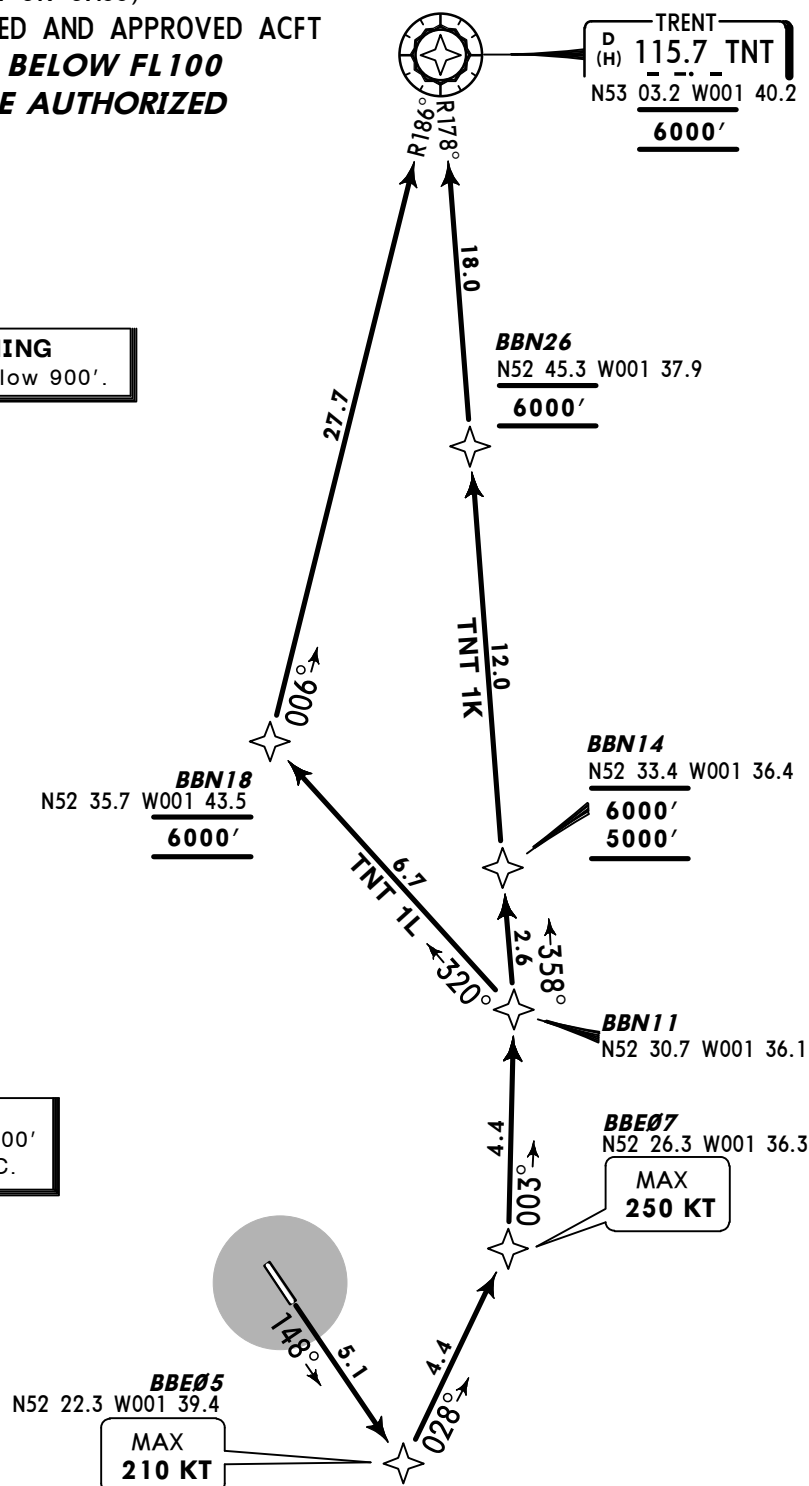
BIRMINGHAM Radar 118.05	Apt Elev 341'	Trans level: By ATC Trans alt: 6000' 1. After passing 2000' contact BIRMINGHAM Radar as soon as possible. 2. All RNAV SIDs include noise preferential routes. 3. Cruising levels will be issued after take-off by SCOTTISH Control. 4. Adhere to maximum speed limits where specified by wpt constraints. 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability. 6. EXPECT close-in obstacles.
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TNT 1K, TNT 1L
RWY 15 RNAV DEPARTURES
 RNAV 1 (DME/DME OR GNSS)
 ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED

WARNING
No turns below 900'.



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

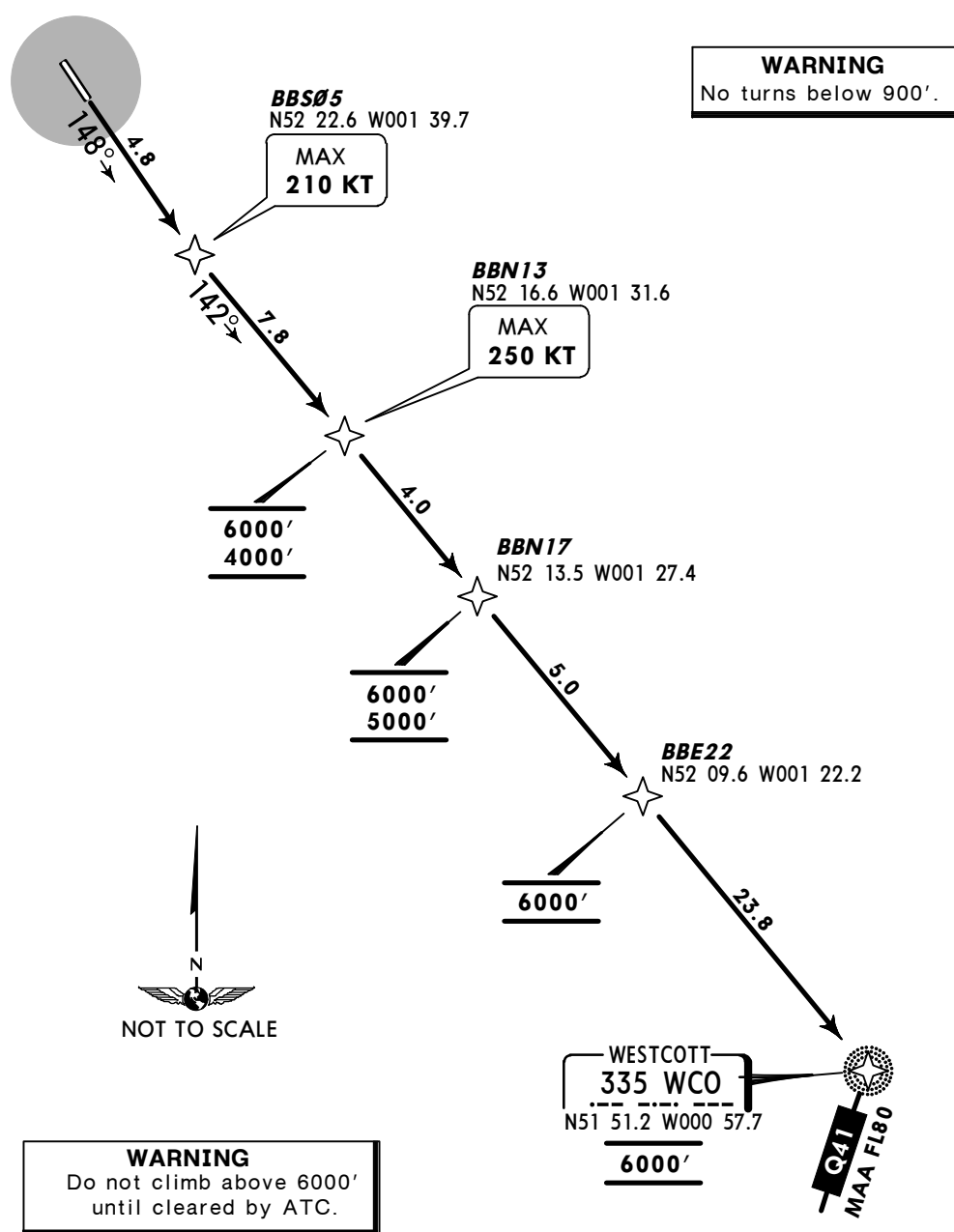


SID	ROUTING
TNT 1K ①	Climb straight ahead to BBE05, turn LEFT to BBE07, turn LEFT to BBN11, turn LEFT to BBN14 - BBN26 - TNT.
TNT 1L	Climb straight ahead to BBE05, turn LEFT to BBE07, turn LEFT to BBN11, turn LEFT to BBN18, turn RIGHT to TNT.

① Only usable when BIRMINGHAM Radar not available.

BIRMINGHAM Radar 118.05	Apt Elev 341'	Trans level: By ATC Trans alt: 6000' 1. After passing 2000' contact BIRMINGHAM Radar as soon as possible. 2. All RNAV SIDs include noise preferential routes. 3. Cruising levels will be issued after take-off by LONDON Control. 4. Adhere to maximum speed limits where specified by wpt constraints. 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability. 6. EXPECT close-in obstacles.
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WCO 1L
RWY 15 RNAV DEPARTURE
 RNAV 1 (DME/DME OR GNSS)
 ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT
~~SPEED~~ **MAX 250 KT BELOW FL100**
UNLESS OTHERWISE AUTHORIZED



ROUTING

Climb straight ahead to BBS05, turn LEFT to BBN13 - BBN17 - BBE22 - WCO.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

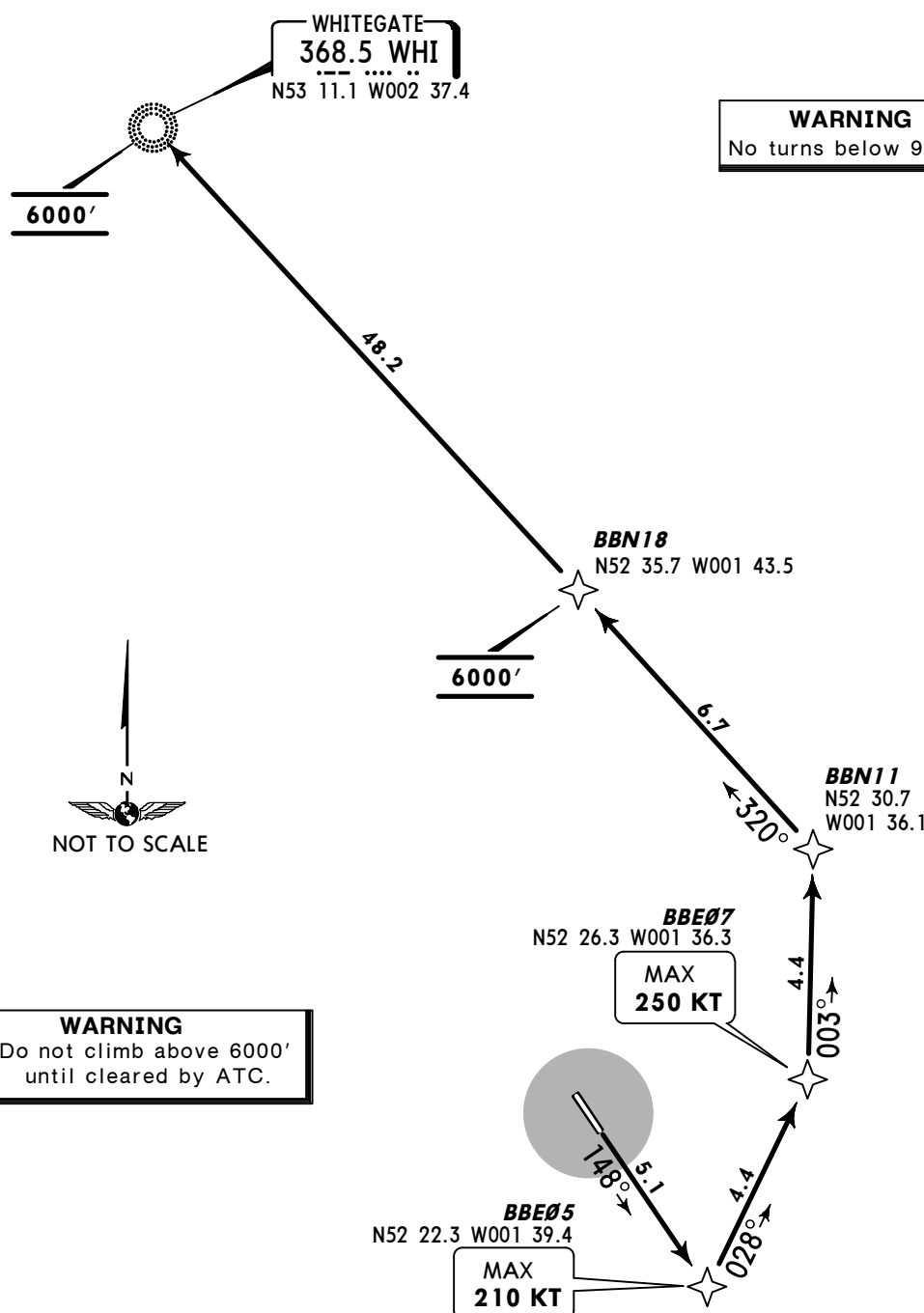
- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All RNAV SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by SCOTTISH Control.
 4. Adhere to maximum speed limits where specified by wpt constraints.
 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.
 6. EXPECT close-in obstacles.

WHI 1L RWY 15 RNAV DEPARTURE

RNAV 1 (DME/DME OR GNSS)

ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT

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



ROUTING

Climb straight ahead to BBE05, turn LEFT to BBE07, turn LEFT to BBN11, turn LEFT to BBN18 - WHI.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
2. All SIDs include noise preferential routes.
3. Cruising levels will be issued after take-off by LONDON Control.
4. Do not climb above SID level until cleared by ATC.

CPT 4D

RWY 33 DEPARTURE

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

WARNING
No turns below 830'.

At **IBM 2 DME**
or **830'**
whichever is later

IBM
2 DME

ILS DME
BIRMINGHAM
(D)
(T) * (110.1) IBM
N52 27.2 W001 45.1



AVERAGE TRACK MILEAGE
71 NM to CPT.

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

This SID requires minimum climb gradients
of approximately
4.8% up to 5000', then
5.0% up to 6000' for ATC purposes.

Gnd speed-KT	75	100	150	200	250	300
4.8% V/V (fpm)	365	486	729	972	1215	1458
5.0% V/V (fpm)	380	506	760	1013	1266	1519

ROUTING/ALTITUDE

Climb straight ahead to IBM 2 DME or 830', whichever is later, turn RIGHT, intercept DTY R-318 inbound by D26 DTY, at D20 DTY turn RIGHT, intercept CPT R-352 inbound, cross D55 CPT/D18 DTY at or above 5000' (MAX 6000'), D53 CPT/D16 DTY at 6000', then to CPT.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by LONDON Control.
 4. Do not climb above SID level until cleared by ATC.

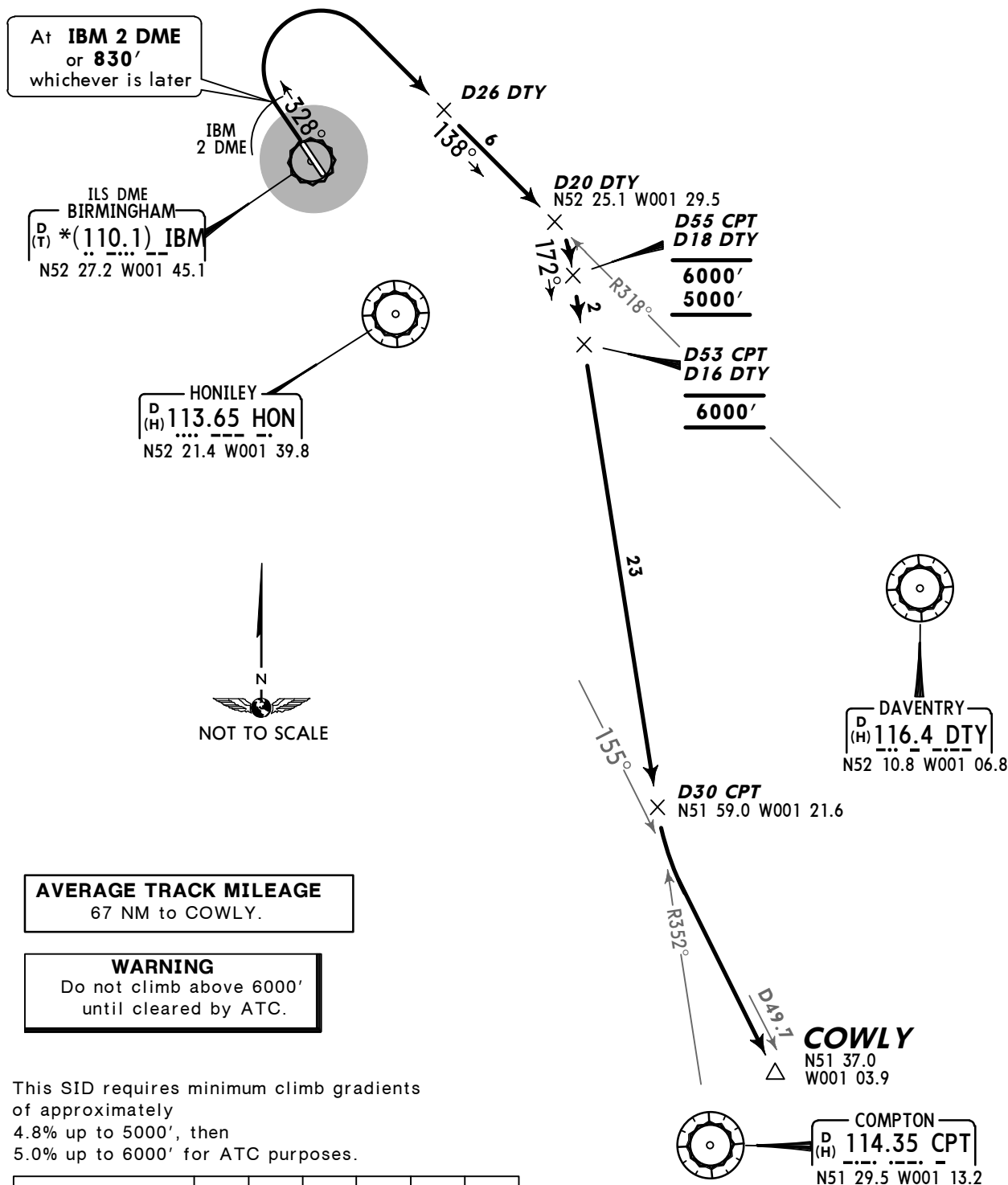
WARNING
No turns below 830'.

COWLY 3D [COWL3D]

RWY 33 DEPARTURE

~~SPEED~~ MAX 250 KT BELOW FL100

UNLESS OTHERWISE AUTHORIZED



ROUTING/ALTITUDE

Climb straight ahead to IBM 2 DME or 830', whichever is later, turn RIGHT, intercept DTY R-318 inbound by D26 DTY, at D20 DTY turn RIGHT, intercept CPT R-352 inbound, cross D55 CPT/D18 DTY at or above 5000' (MAX 6000'), D53 CPT/D16 DTY at 6000', at D30 CPT intercept HON R-155 to COWLY.

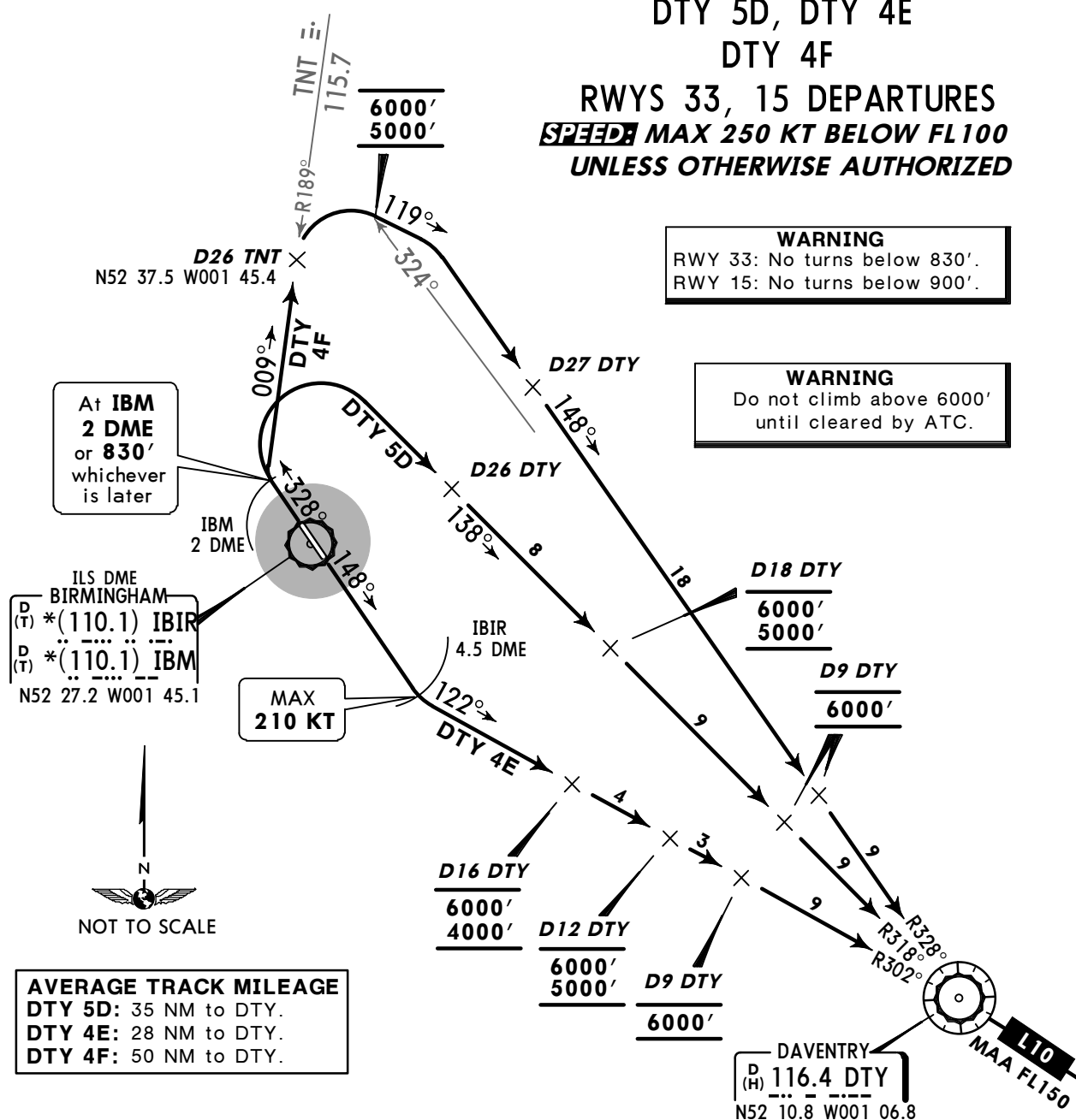
BIRMINGHAM
Radar
118.05Apt Elev
341'

- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by LONDON Control.
 4. Do not climb above SID level until cleared by ATC.

DTY 5D, DTY 4E

DTY 4F

RWYS 33, 15 DEPARTURES

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

These SIDs require minimum climb gradients of approximately

DTY 5D: 4.8% up to 5000' for ATC purposes.

DTY 4E: 5.0% up to 4000', then

4.8% up to 6000' for ATC purposes.

DTY 4F: 7.8% up to 5000' for ATC purposes.

Gnd speed-KT	75	100	150	200	250	300
4.8% V/V (fpm)	365	486	729	972	1215	1458
5.0% V/V (fpm)	380	506	760	1013	1266	1519
7.8% V/V (fpm)	592	790	1185	1580	1975	2370

SID	RWY	ROUTING/ALTITUDE
DTY 5D	33	Climb straight ahead to IBM 2 DME or 830', whichever is later, turn RIGHT, intercept DTY R-318 inbound by D26 DTY, cross D18 DTY at or above 5000' (MAX 6000'), D9 DTY at 6000', then to DTY.
DTY 4E	15	Climb straight ahead to IBIR 4.5 DME, turn LEFT, intercept DTY R-302 inbound, cross D16 DTY at or above 4000' (MAX 6000'), D12 DTY at or above 5000' (MAX 6000'), D9 DTY at 6000', then to DTY.
DTY 4F ①	33	Climb straight ahead to IBM 2 DME or 830', whichever is later, turn RIGHT, intercept TNT R-189 inbound to D26 TNT, turn RIGHT, 119° track, cross DTY R-324 at or above 5000' (MAX 6000'), intercept DTY R-328 inbound by D27 DTY, cross D9 DTY at 6000', then to DTY.

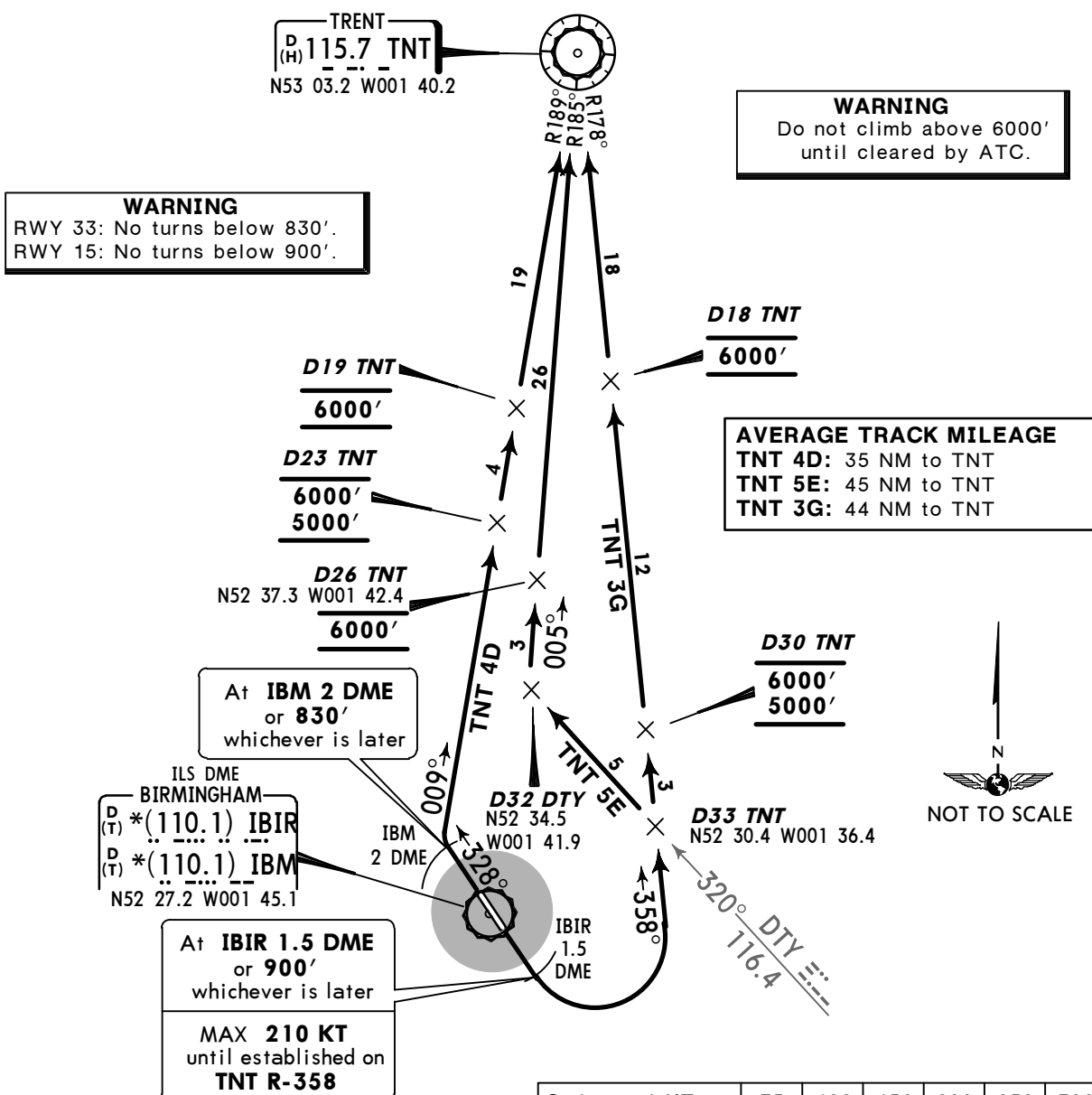
① Only usable when BIRMINGHAM Radar not available.

BIRMINGHAM
Radar
118.05Apt Elev
341'

Trans level: By ATC Trans alt: 6000'

1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
2. All SIDs include noise preferential routes.
3. Cruising levels will be issued after take-off by SCOTTISH Control.
4. Do not climb above SID level until cleared by ATC.

TNT 4D, TNT 5E, TNT 3G
RWYS 33, 15 DEPARTURES
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED



These SIDs require minimum climb gradients of

TNT 4D: 5.9% up to 5000' for ATC purposes.

TNT 5E: 5.0% up to 6000' for ATC purposes.

TNT 3G: 5.6% up to 5000' for ATC purposes.

Gnd speed-KT	75	100	150	200	250	300
5.0% V/V (fpm)	380	506	760	1013	1266	1519
5.6% V/V (fpm)	425	567	851	1134	1418	1701
5.9% V/V (fpm)	448	597	896	1195	1494	1792

SID	RWY	ROUTING/ALTITUDE
TNT 4D	33	Climb straight ahead to IBM 2 DME or 830', whichever is later, turn RIGHT, intercept TNT R-189 inbound, cross D23 TNT at or above 5000' (MAX 6000'), D19 TNT at 6000', then to TNT.
TNT 5E	15	Climb straight ahead to IBIR 1.5 DME or 900', whichever is later, turn LEFT, intercept TNT R-178 inbound, at D33 TNT turn LEFT, intercept DTY R-320 to D32 DTY, turn RIGHT, intercept TNT R-185 inbound, cross D26 TNT at 6000', then to TNT.
TNT 3G ①	15	Climb straight ahead to IBIR 1.5 DME or 900', whichever is later, turn LEFT, intercept TNT R-178 inbound, cross D30 TNT at or above 5000' (MAX 6000'), D18 TNT at 6000', then to TNT.

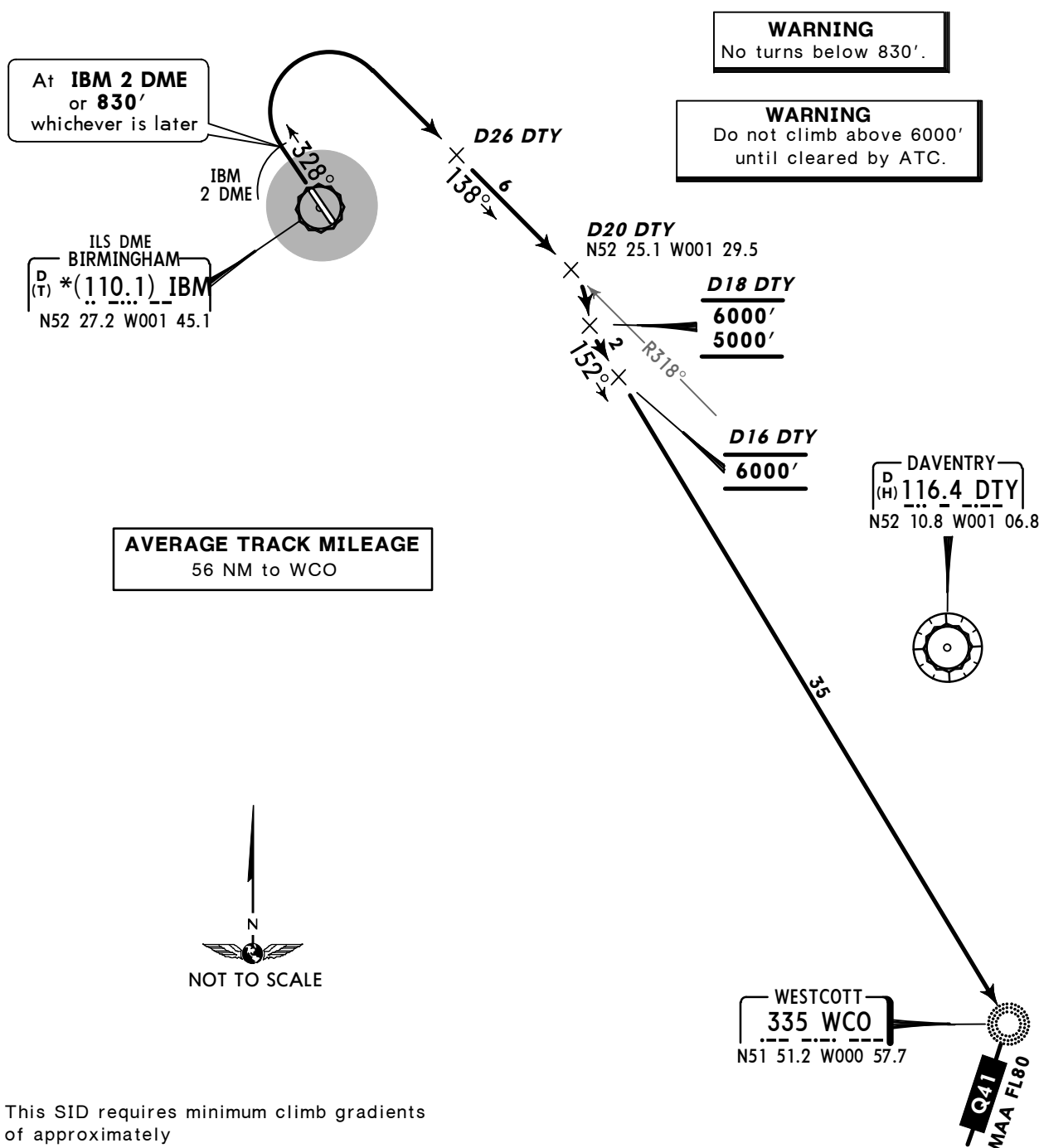
① Only usable when BIRMINGHAM Radar not available.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by LONDON Control.
 4. Do not climb above SID level until cleared by ATC.

WCO 5D
RWY 33 DEPARTURE
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED



This SID requires minimum climb gradients of approximately
4.8% up to 5000', then
5.0% up to 6000' for ATC purposes.

Gnd speed-KT	75	100	150	200	250	300
5.0% V/V (fpm)	380	506	760	1013	1266	1519
4.8% V/V (fpm)	365	486	729	972	1215	1458

ROUTING/ALTITUDE

Climb straight ahead to IBM 2 DME or 830', whichever is later, turn RIGHT, intercept DTY R-318 inbound by D26 DTY, at D20 DTY turn RIGHT, cross D18 DTY at or above 5000' (MAX 6000'), intercept 152° bearing, cross D16 DTY at 6000', then to WCO.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
2. All SIDs include noise preferential routes.
3. Cruising levels will be issued after take-off by SCOTTISH Control.
4. Do not climb above SID level until cleared by ATC.

WHI 4D
RWY 33 DEPARTURE
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED

WHITEGATE
368.5 WHI
N53 11.1 W002 37.4

WARNING
No turns below 830'.

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

AVERAGE TRACK MILEAGE
54 NM to WHI

D20 IBM
6000'

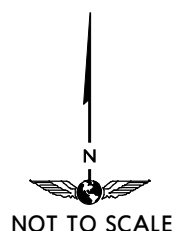
D17 IBM
6000'
5000'

D13 IBM
6000'
4000'

At IBM 2 DME
or 830'
whichever is later

ILS DME
BIRMINGHAM
D(T) * (110.1) IBM
N52 27.2 W001 45.1

IBM
2 DME



HONILEY
D(H) 113.65 HON
N52 21.4 W001 39.8

This SID requires minimum climb gradient
of
4.7% up to 6000' for ATC purposes.

Gnd speed-KT	75	100	150	200	250	300
4.7% V/V (fpm)	357	476	714	952	1190	1428

ROUTING/ALTITUDE

Climb straight ahead to IBM 2 DME or 830', whichever is later, intercept HON R-327, cross D13 IBM at or above 4000' (MAX 6000'), D17 IBM at or above 5000' (MAX 6000'), D20 IBM at 6000', then to WHI.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

- Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
 2. All RNAV SIDs include noise preferential routes.
 3. Cruising levels will be issued after take-off by LONDON Control.
 4. Adhere to maximum speed limits where specified by wpt constraints.
 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.
 6. EXPECT close-in obstacles.

CPT 1Y

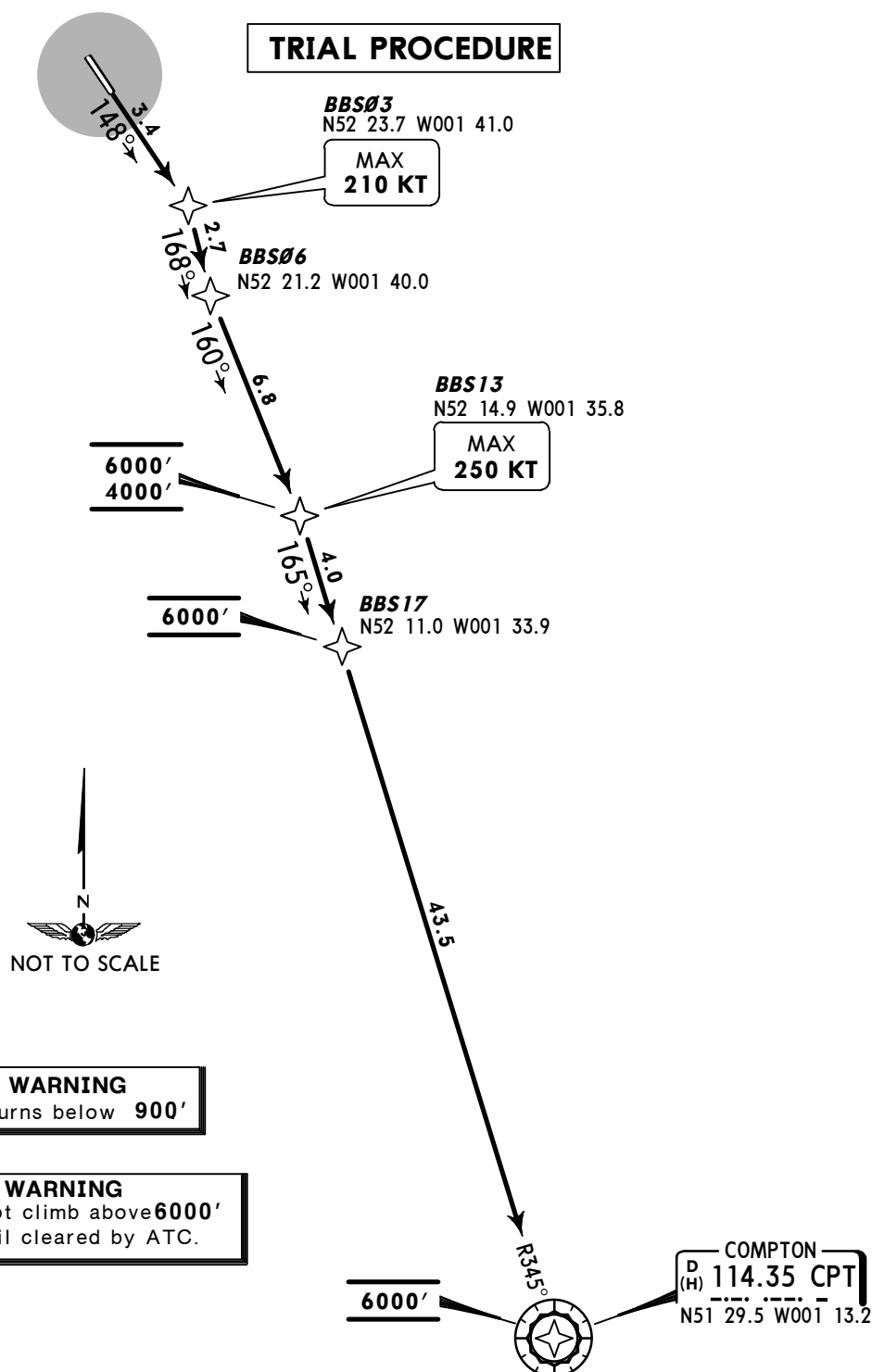
RWY 15 RNAV DEPARTURE

RNAV 1 (DME/DME OR GNSS)

ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT

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

TRIAL PROCEDURE



ROUTING

Climb straight ahead to BBS03, turn RIGHT to BBS06, turn LEFT to BBS13, turn RIGHT to BBS17 - CPT.

BIRMINGHAM
Radar
118.05

Apt Elev
341'

Trans level: By ATC Trans alt: 6000'
1. After passing 2000' contact BIRMINGHAM Radar as soon as possible.
2. All RNAV SIDs include noise preferential routes.
3. Cruising levels will be issued after take-off by LONDON Control.
4. Adhere to maximum speed limits where specified by wpt constraints.
5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability.
6. EXPECT close-in obstacles.

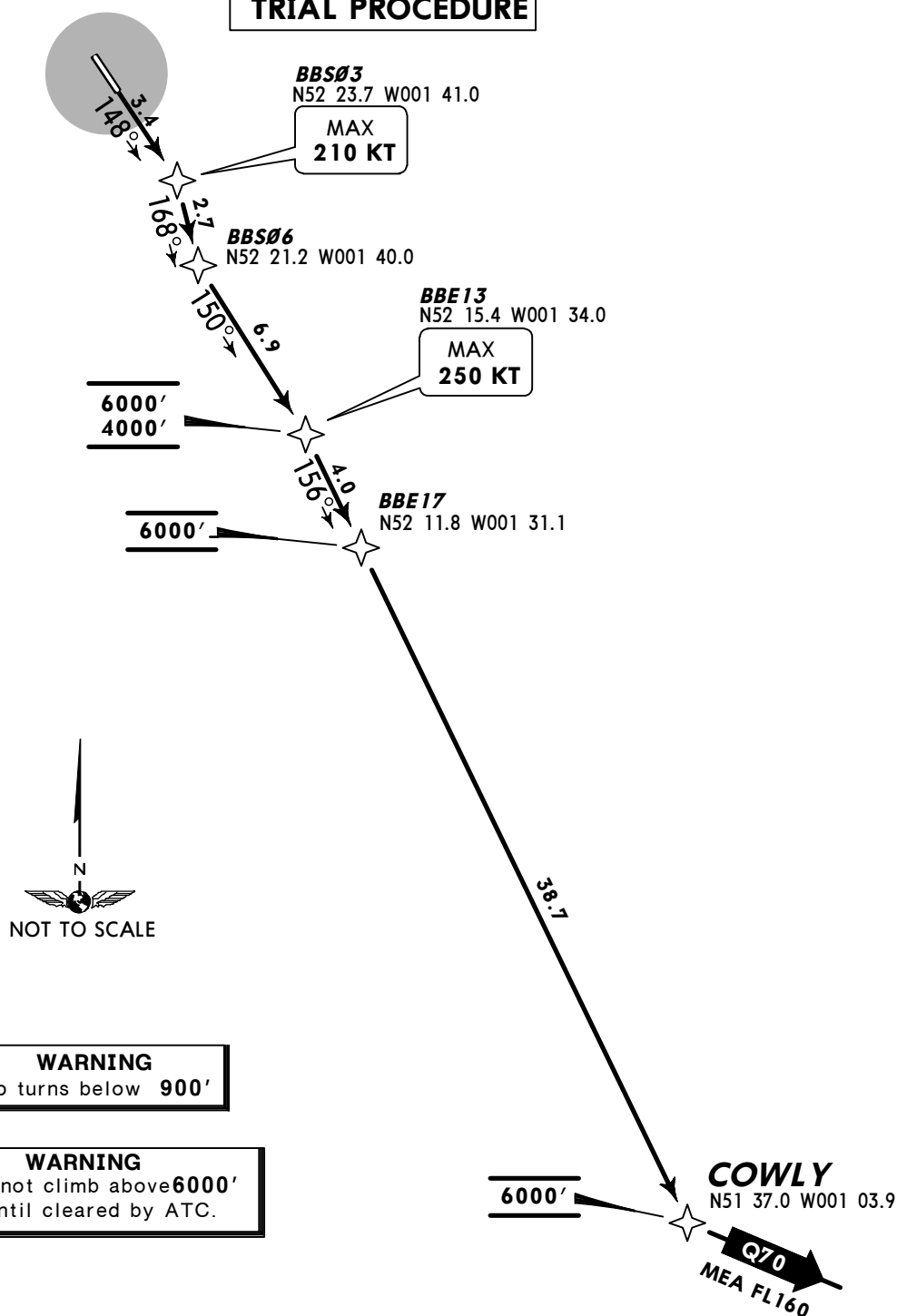
COWLY 1Y [COWL1Y] RWY 15 RNAV DEPARTURE

RNAV 1 (DME/DME OR GNSS)

ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT

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

TRIAL PROCEDURE



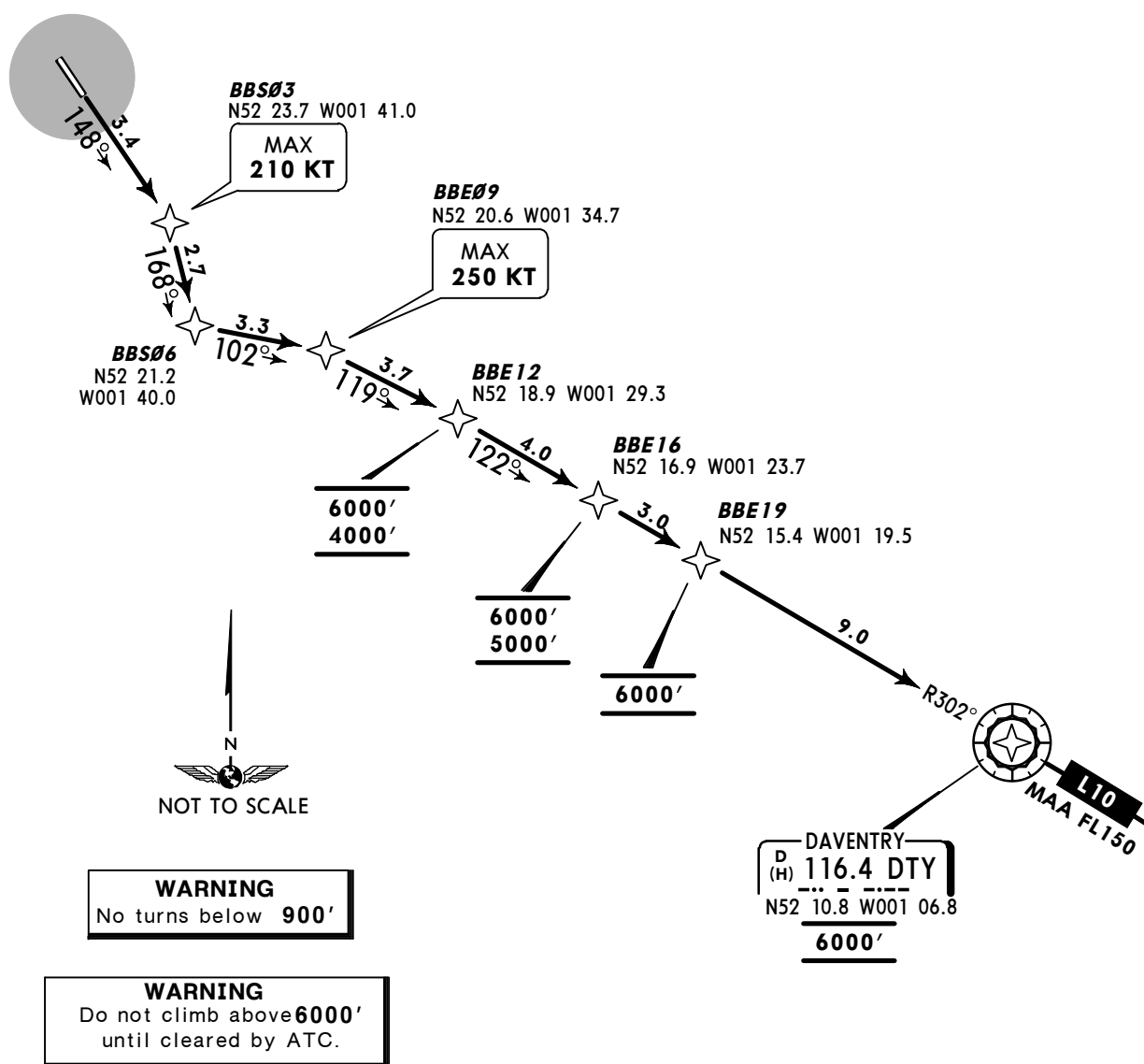
ROUTING

Climb straight ahead to BBS03, turn RIGHT to BBS06, turn LEFT to BBE13, turn RIGHT to BBE17 - COWLY.

BIRMINGHAM Radar 118.05	Apt Elev 341'	Trans level: By ATC Trans alt: 6000' 1. After passing 2000' contact BIRMINGHAM Radar as soon as possible. 2. All RNAV SIDs include noise preferential routes. 3. Cruising levels will be issued after take-off by LONDON Control. 4. Adhere to maximum speed limits where specified by wpt constraints. 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability. 6. EXPECT close-in obstacles.
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DTY 1Y
RWY 15 RNAV DEPARTURE
 RNAV 1 (DME/DME OR GNSS)
 ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT
~~SPEED~~ MAX 250 KT BELOW FL100
UNLESS OTHERWISE AUTHORIZED

TRIAL PROCEDURE



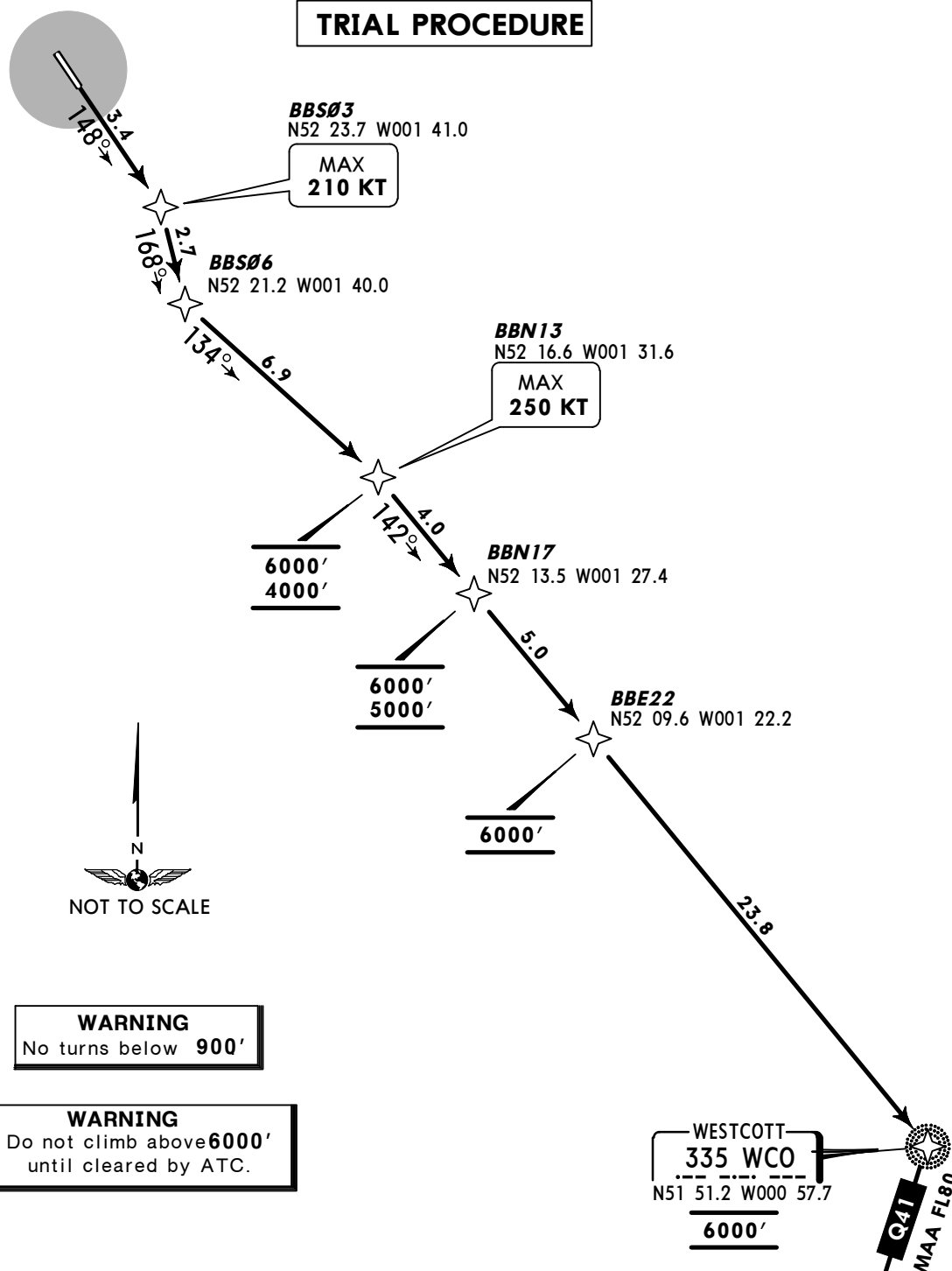
ROUTING

Climb straight ahead to BBS03, turn RIGHT to BBS06, turn LEFT to BBE09, turn RIGHT to BBE12 - BBE16 - BBE19 - DTY.

BIRMINGHAM Radar 118.05	Apt Elev 341'	Trans level: By ATC Trans alt: 6000' 1. After passing 2000' contact BIRMINGHAM Radar as soon as possible. 2. All RNAV SIDs include noise preferential routes. 3. Cruising levels will be issued after take-off by LONDON Control. 4. Adhere to maximum speed limits where specified by wpt constraints. 5. RNAV 1 SIDs are available only for approved aircraft that are either GNSS equipped or that have DME/DME and INS/IRU with automatic runway updating capability. 6. EXPECT close-in obstacles.
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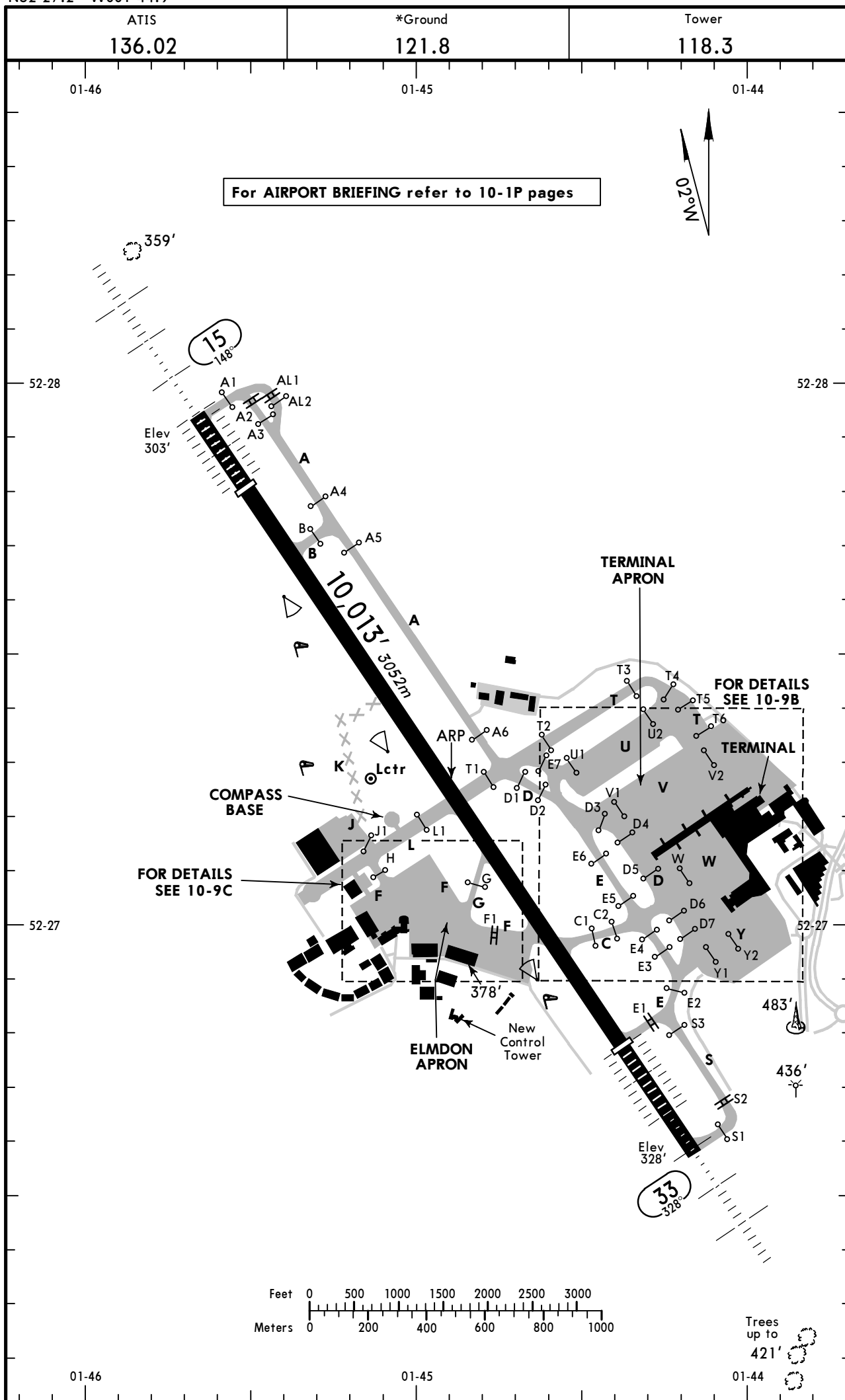
WCO 1Y
RWY 15 RNAV DEPARTURE
 RNAV 1 (DME/DME OR GNSS)
 ONLY AVAILABLE FOR EQUIPPED AND APPROVED ACFT
~~SPEED~~ **MAX 250 KT BELOW FL100**
UNLESS OTHERWISE AUTHORIZED

TRIAL PROCEDURE



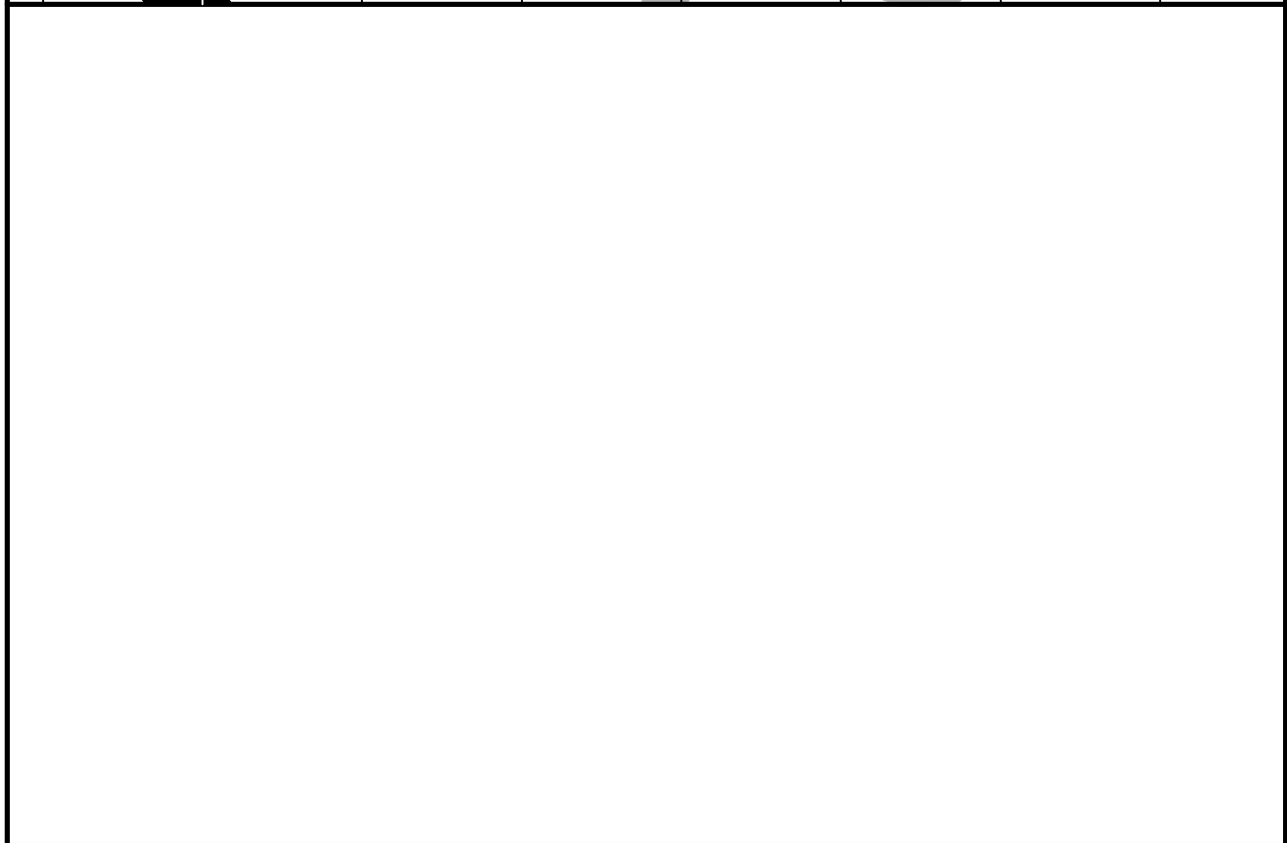
ROUTING

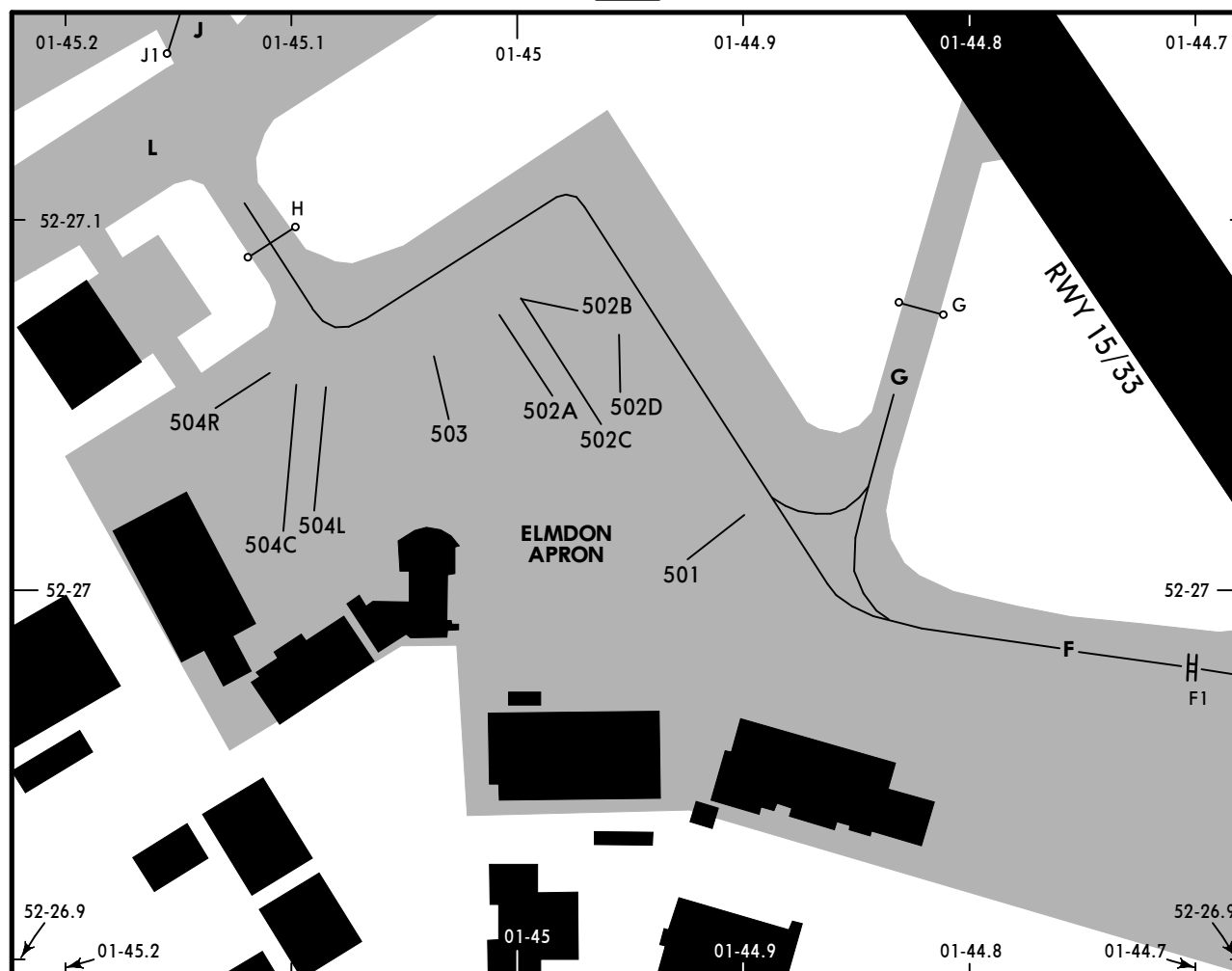
Climb straight ahead to BBS03, turn RIGHT to BBS06, turn LEFT to BBN13, turn RIGHT to BBN17 - BBE22 - WCO.



From rwy head 9852' (3003m)
 twy E int 8369' (2551m)
 twy C int 7152' (2180m)
 twy F int 6867' (2093m)
 twy G int 5801' (1768m)
 twy L/T int 5115' (1559m)

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INS COORDINATES

STAND No.	COORDINATES	STAND No.	COORDINATES
1 thru 3	N52 27.0 W001 44.0	57C/R	N52 27.2 W001 44.1
4 thru 8L/C/R	N52 27.0 W001 44.1	58 thru 61	N52 27.3 W001 44.0
10, 11	N52 27.0 W001 44.2	62	N52 27.4 W001 44.1
12	N52 27.0 W001 44.1	70L/C/R	N52 27.2 W001 44.4
13, 14	N52 27.1 W001 44.1	71	N52 27.3 W001 44.4
15, 16	N52 27.1 W001 44.0	72 thru 74	N52 27.3 W001 44.3
20, 21	N52 27.0 W001 43.9	75 thru 80	N52 27.3 W001 44.2
22	N52 27.0 W001 44.0	81	N52 27.4 W001 44.2
23 thru 25	N52 26.9 W001 44.0	82	N52 27.4 W001 44.3
40	N52 27.2 W001 44.1	83L/C/R, 84L	N52 27.3 W001 44.3
41L	N52 27.1 W001 44.2	84C thru 85R	N52 27.3 W001 44.4
41C/R	N52 27.2 W001 44.2	86L/C/R	N52 27.2 W001 44.5
42C	N52 27.1 W001 44.2	501	N52 27.0 W001 44.9
42L	N52 27.1 W001 44.3	502A, 502B	N52 27.1 W001 45.0
42R	N52 27.1 W001 44.2	502C, 502D	N52 27.0 W001 45.0
54L/C/R	N52 27.2 W001 44.3	503	N52 27.1 W001 45.0
55L/C/R	N52 27.2 W001 44.2	504C thru 504R	N52 27.0 W001 45.1
56L	N52 27.2 W001 44.1		
56C/R	N52 27.2 W001 44.2		
57L	N52 27.3 W001 44.1		

STRAIGHT-IN RWY	DA(H) / MDA(H)	RVR (ALS/ALS out)
15 CAT 2 ILS	403' (100')	RA 98' - 300m
ILS	503' (200')	500m / 1000m
LOC	750' (447')	800m / 1000m
RNAV (LNAV/VNAV)	740' (437')	800m / 1000m
RNAV (LNAV)	740' (437')	800m / 1000m
NDB	770' (467')	1000m / 1000m
SRA	860' (557')	1000m / 1000m
33 CAT 2 ILS	426' (100')	RA 98' - 300m
ILS	526' (200')	500m / 1000m
LOC	740' (414')	800m / 1000m
RNAV (LNAV/VNAV)	740' (414')	800m / 1000m
RNAV (LNAV)	750' (424')	800m / 1000m
NDB	800' (474')	1000m / 1000m
SRA	830' (504')	1000m / 1000m

CIRCLE-TO-LAND	MDA(H)	VIS
	810' (482') ❶	1000m

- ❶ After SRA 15: 860' (532').
 After SRA 33: 830' (502').

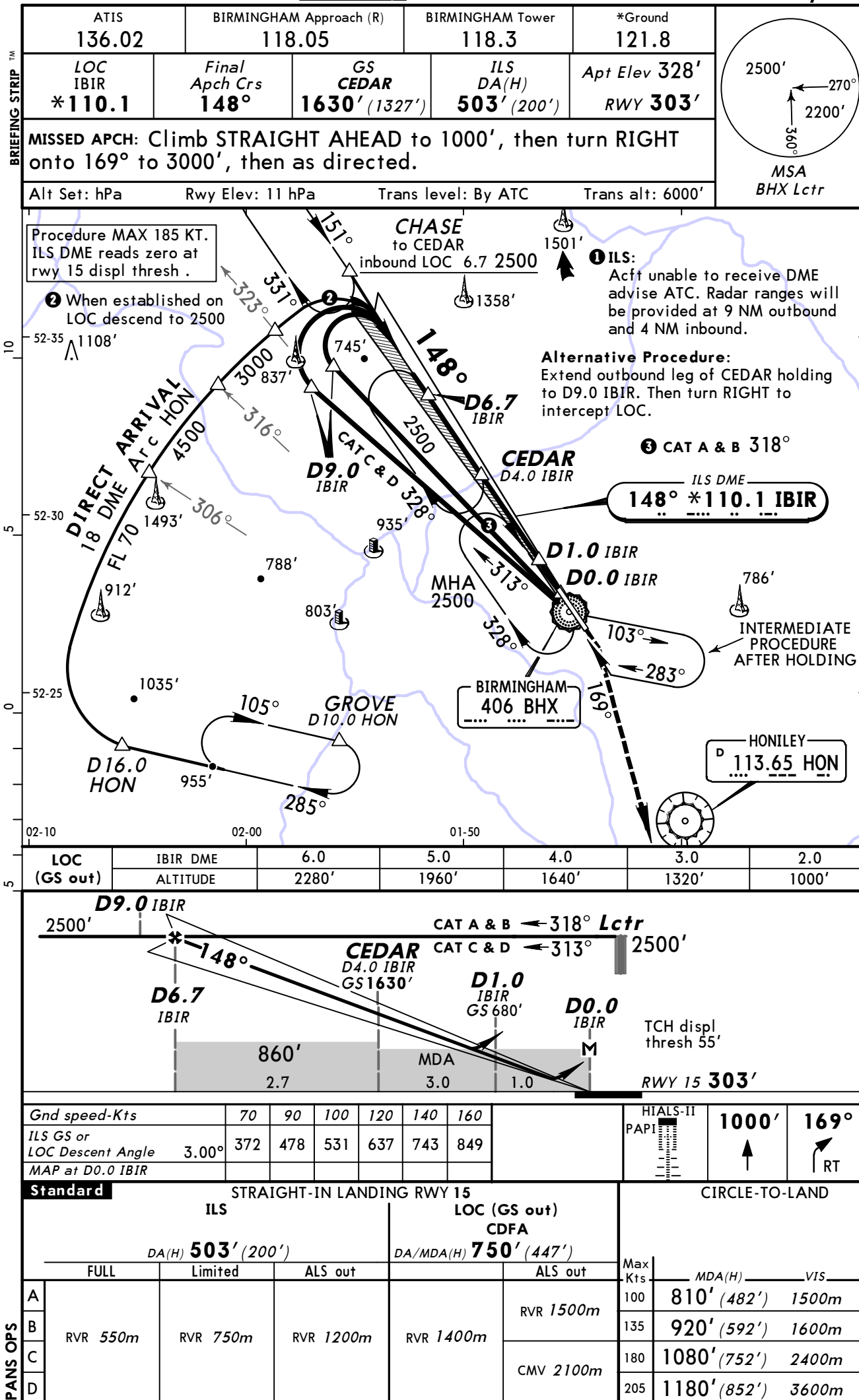
TAKE-OFF RWY 15, 33				
LVP must be in Force ❷				
RL, FATO LTS, CL & RVR info	RL, FATO LTS & RCLM	Unlit/unmarked defined RWY/FATO	Nil Facilities DAY	Nil Facilities NIGHT
150m	200m	200m	250m ❸	800m

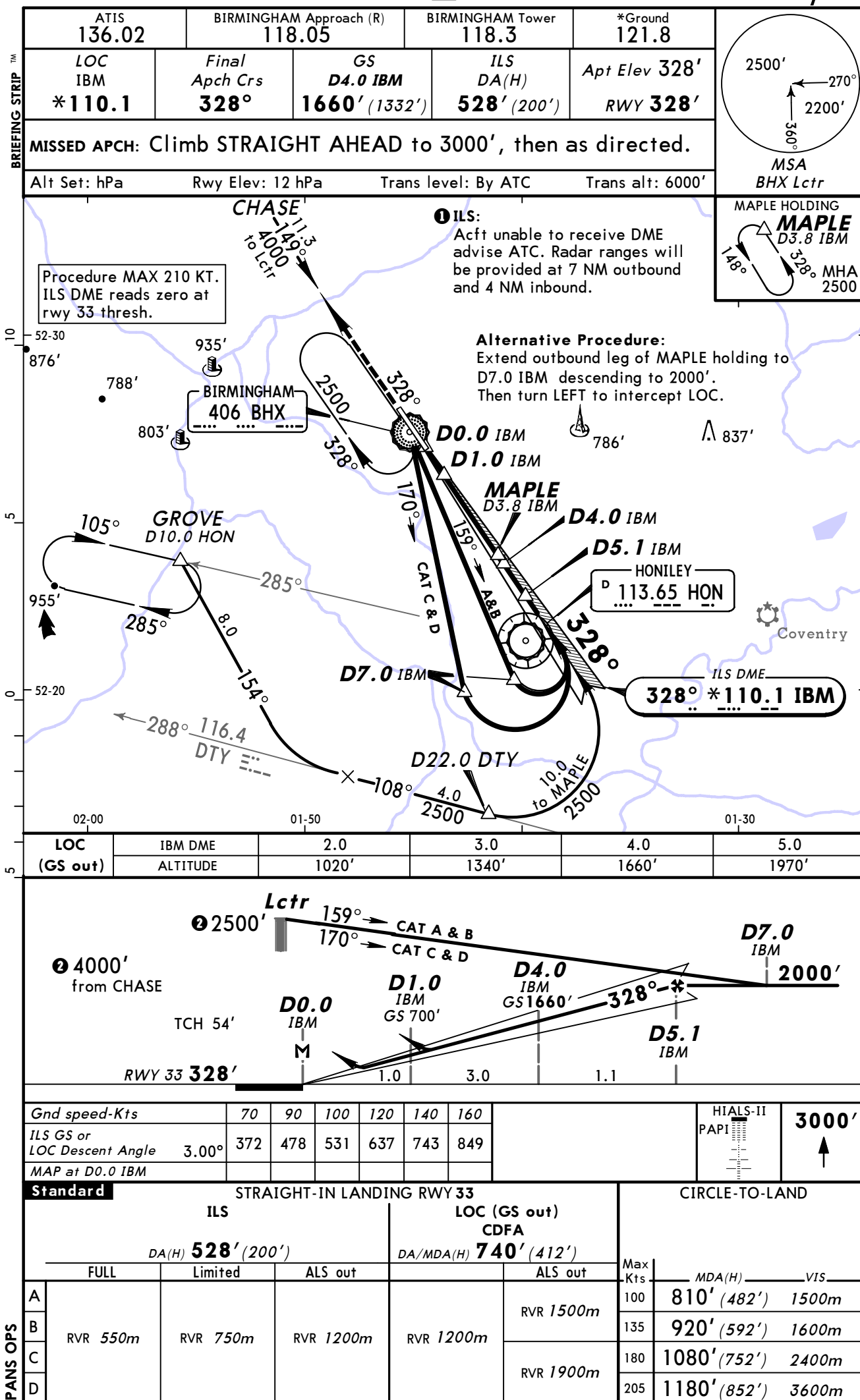
- ❷ Without LVP 400m are stipulated.
 ❸ Or rejected take-off distance whichever is the greater.

TEMPORARY MINIMUMS DUE TO SHORTENING OF HIALS RWY 33

REFER ALSO TO SUP 030/2012

STRAIGHT-IN RWY		DA(H) / MDA(H)	RVR (ALS/ALS out)
33	CAT 2 ILS	428' (100')	RA 98' - 300m
	ILS	528' (200')	600m / 1000m
	LOC	740' (412')	1000m / 1000m
	RNAV (LNAV/VNAV)	740' (412')	1000m / 1000m
	RNAV (LNAV)	750' (422')	1000m / 1000m
	NDB	800' (472')	1000m / 1000m
	SRA	830' (502')	1000m / 1000m



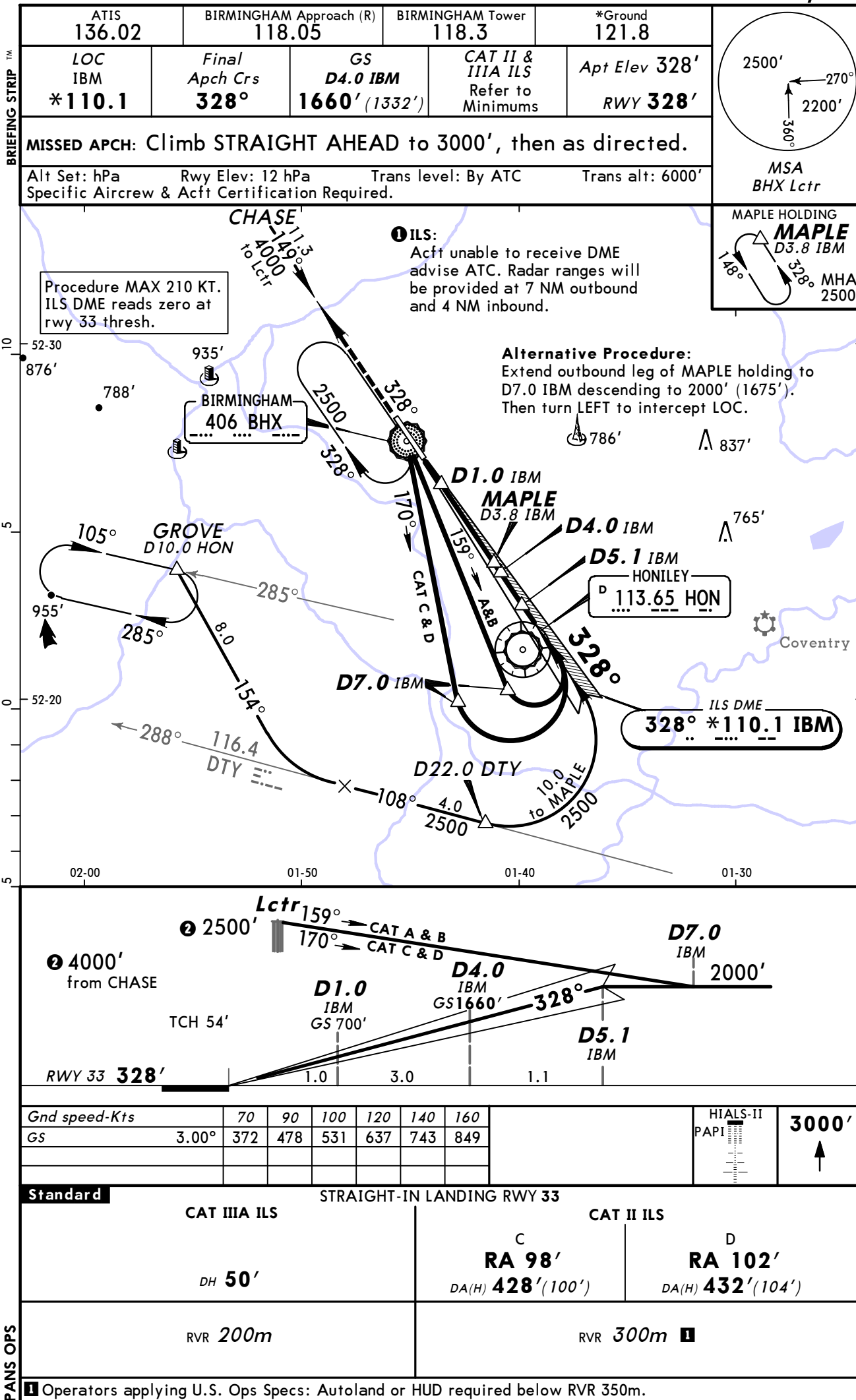


EGBB/BHX
BIRMINGHAM

14 FEB 14

11-2A **CAT II/III NDB ILS DME Rwy 33**

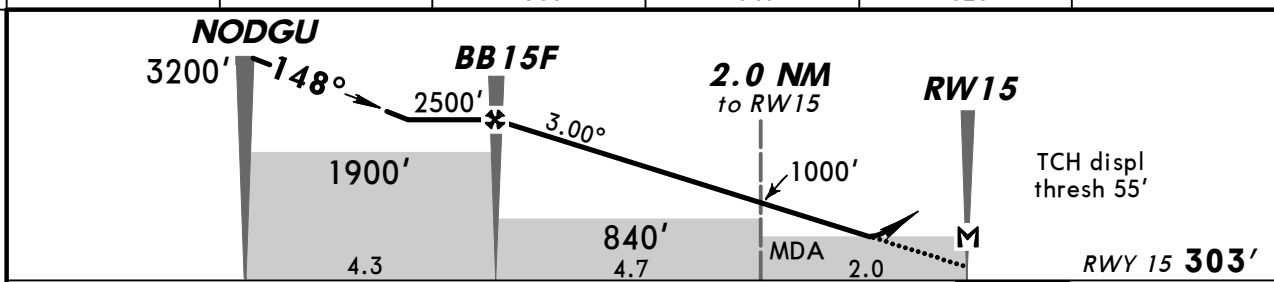
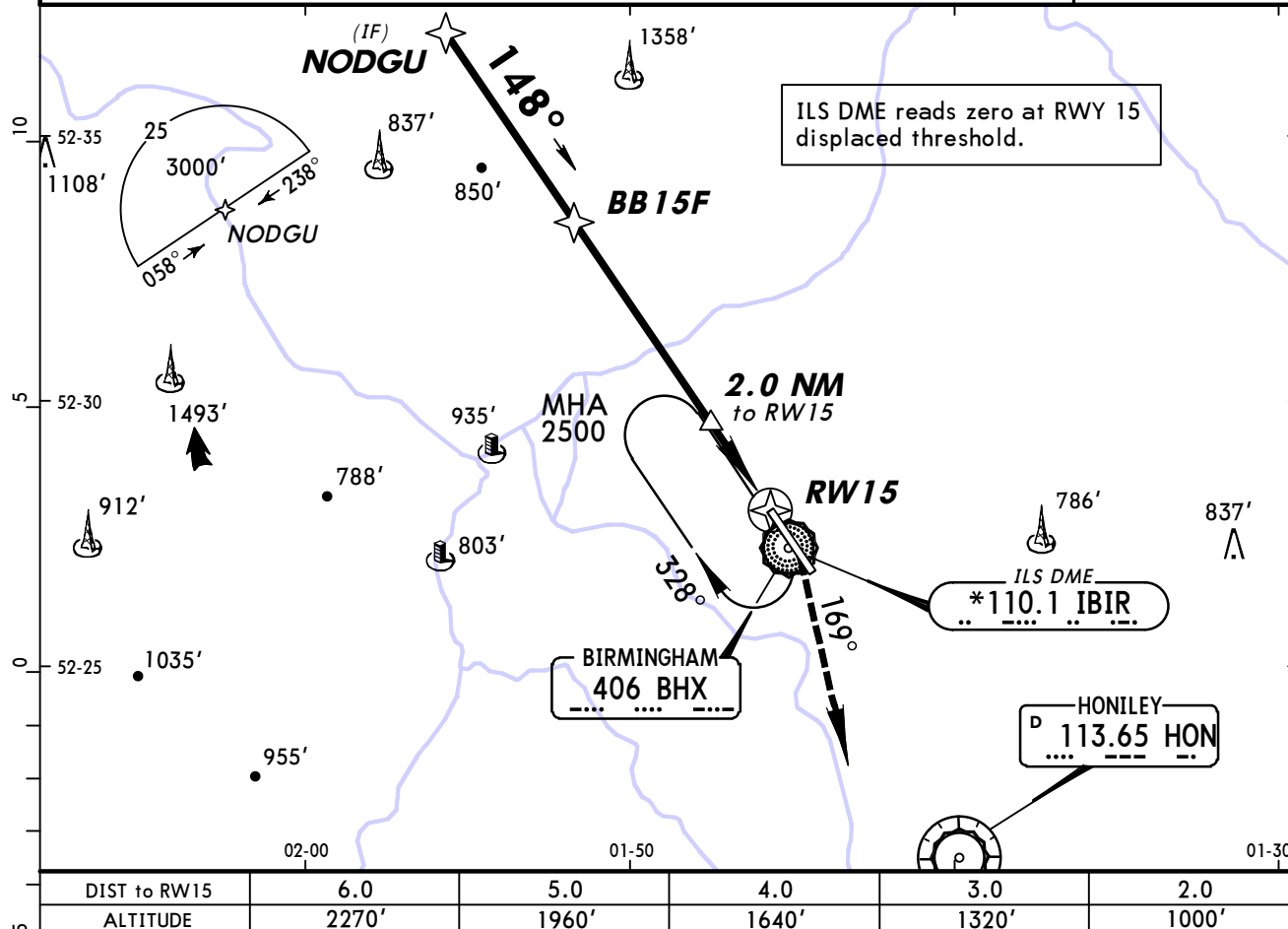
BIRMINGHAM, UK



TM

BRIEFING STRIP

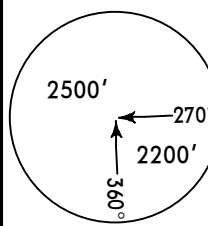
ATIS 136.02		BIRMINGHAM Approach (R) 118.05		BIRMINGHAM Tower 118.3		*Ground 121.8	
RNAV	Final Apch Crs 148°	Procedure Alt BB15F 2500' (2197')	LNAV/VNAV DA(H) 740' (437')	Apt Elev 328' RWY 303'		2500' 270° 2200' 360° MSA ARP	
MISSED APCH: Climb STRAIGHT AHEAD to 1000', then turn RIGHT onto 169° to 3000', then as directed.							
MISSED APCH WITH RADIO FAILURE: Climb STRAIGHT AHEAD to 1000', then turn RIGHT onto 169° to 2500' or D4.0 IBIR/D2.0 HON, whichever is later, then turn LEFT to NDB. Do not turn before passing THR.							
Alt Set: hPa		Rwy Elev: 11 hPa		Trans level: By ATC			
Baro-VNAV not authorized below -10°C.				Trans alt: 6000'			

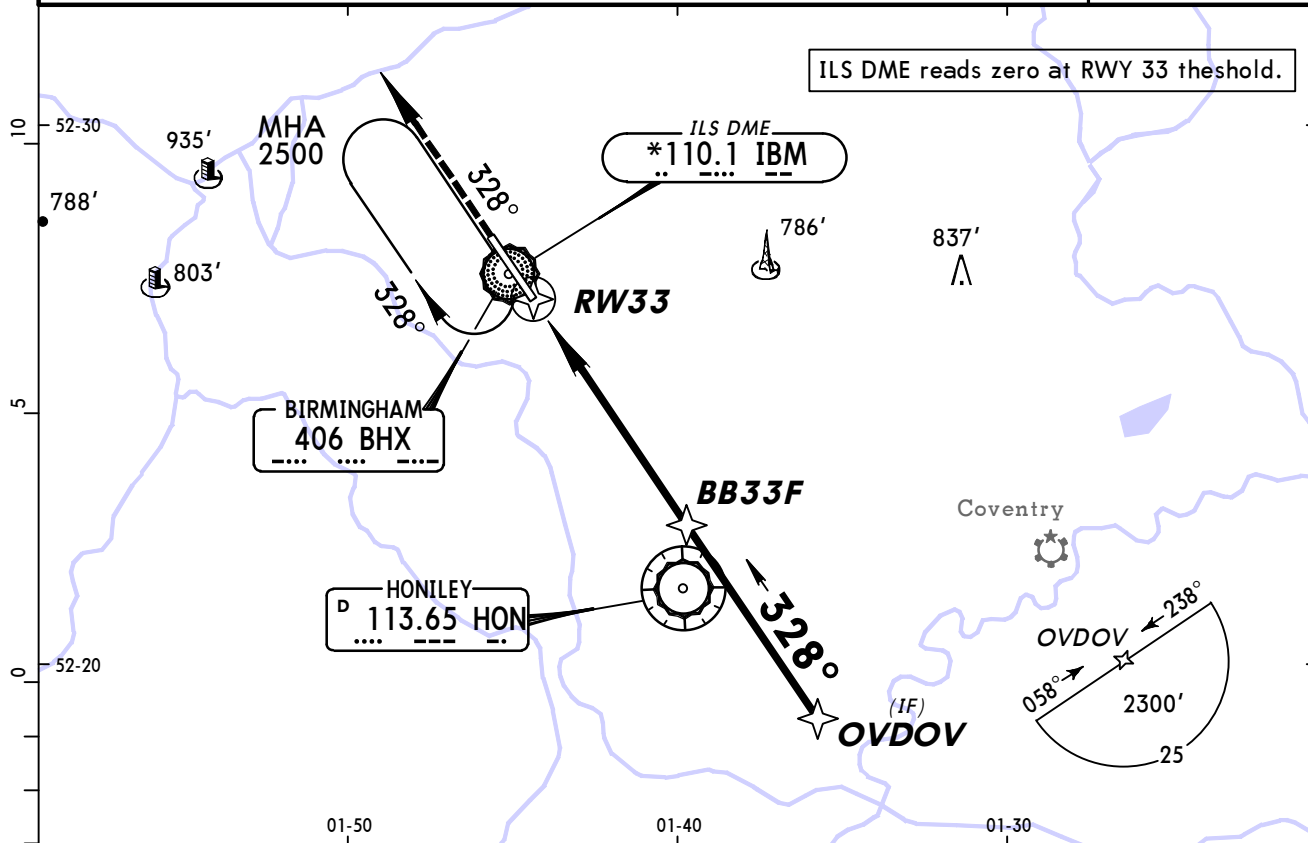


TO DISPL THRESH 11.0		6.7					
Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 1000' 169° ↑ RT
Descent Angle	3.00°	372	478	531	637	743	
MAP at RW15							

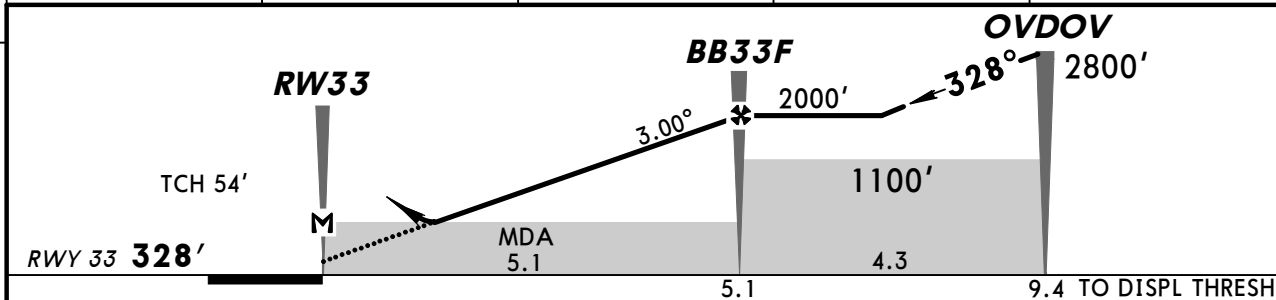
STRAIGHT-IN LANDING RWY 15				CIRCLE-TO-LAND	
RNAV/VNAV		RNAV CDFA		Max Kts	VIS
DA(H) 740' (437')		DA/MDA(H) 740' (437')			
ALS out		ALS out			
PANS OPS	RVR 1300m	RVR 1500m	RVR 1500m	100	810' (482') 1500m
				135	920' (592') 1600m
		RVR 1300m	RVR 2000m	180	1080' (752') 2400m
				205	1180' (852') 3600m

BRIEFING STRIP™

ATIS 136.02		BIRMINGHAM Approach (R) 118.05		BIRMINGHAM Tower 118.3		*Ground 121.8
RNAV	Final Apch Crs 328°	Procedure Alt BB33F 2000' (1672')	LNAV/VNAV DA(H) 740' (412')	Apt Elev 328' RWY 328'		
MISSED APCH: Climb STRAIGHT AHEAD to 3000', then as directed.						
MISSED APCH WITH RADIO FAILURE: Climb STRAIGHT AHEAD to 2500' or D2.0 IBM/ D9.2 HON, whichever is later, then turn RIGHT to NDB.						
Alt Set: hPa		Rwy Elev: 12 hPa		Trans level: By ATC		
Baro-VNAV not authorized below -10°C.				Trans alt: 6000'		MSA ARP



DIST to RW33	2.0	3.0	4.0	5.0
ALTITUDE	1020'	1340'	1660'	1980'



<i>Gnd speed-Kts</i>	70	90	100	120	140	160	HIALS-II PAPI	Refer to Missed Apch above
<i>Descent Angle 3.00°</i>	372	478	531	637	743	849		
<i>MAP at RW33</i>								

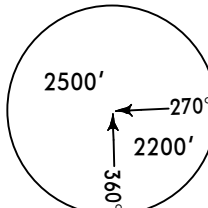
STRAIGHT-IN LANDING RWY 33					CIRCLE-TO-LAND		
LNAV/VNAV			LNAV CDFA				
DA(H) 740' (412')			DA/MDA(H) 750' (422')				
ALS out			ALS out		Max Kts	MDA(H)	VIS
A	RVR 1200m	RVR 1500m	RVR 1300m	RVR 1500m	100	810' (482')	1500m
		RVR 1900m		RVR 2000m	135	920' (592')	1600m
					180	1080' (752')	2400m
					205	1180' (852')	3600m

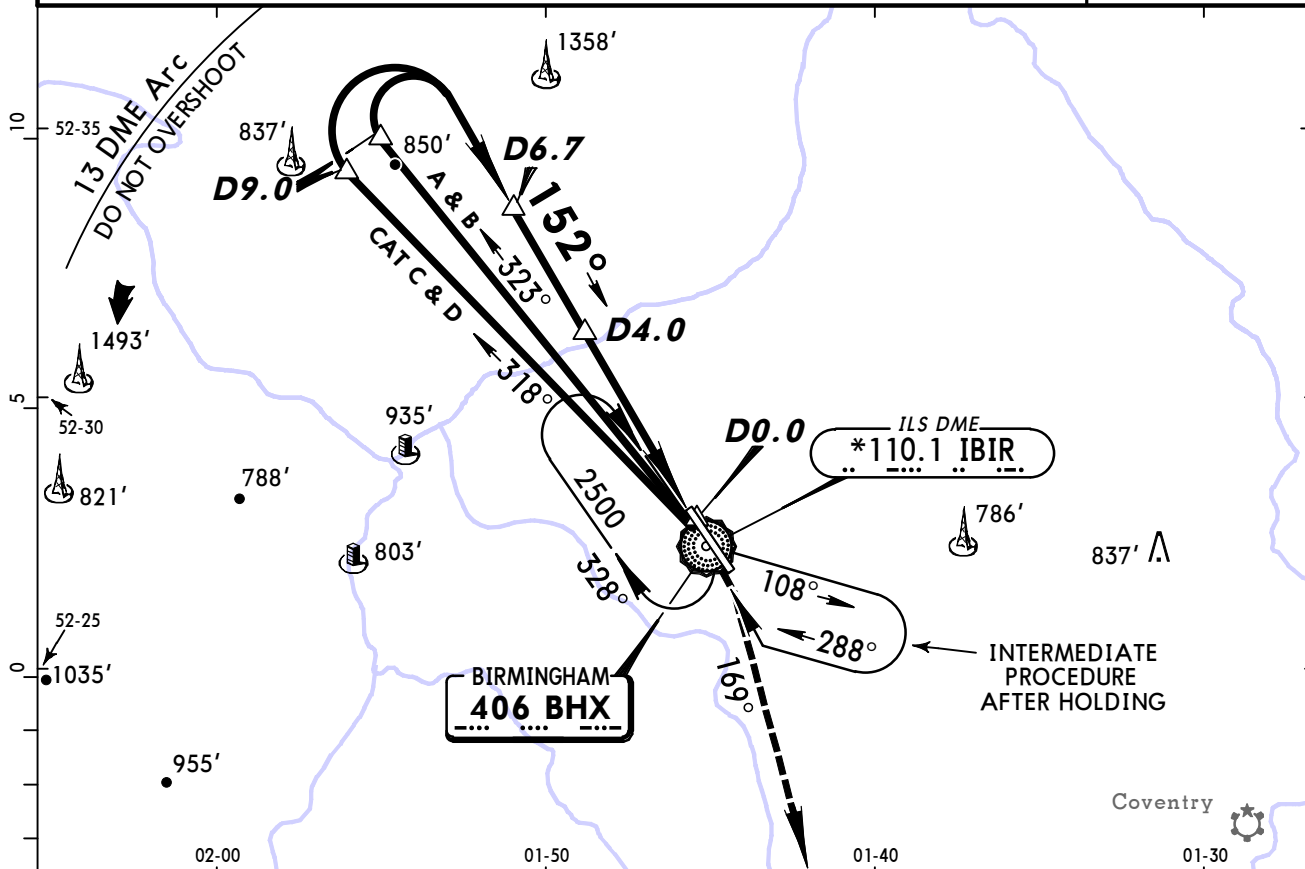
EGBB/BHX
BIRMINGHAM

JEPPESEN
7 FEB 14 **(16-1)**

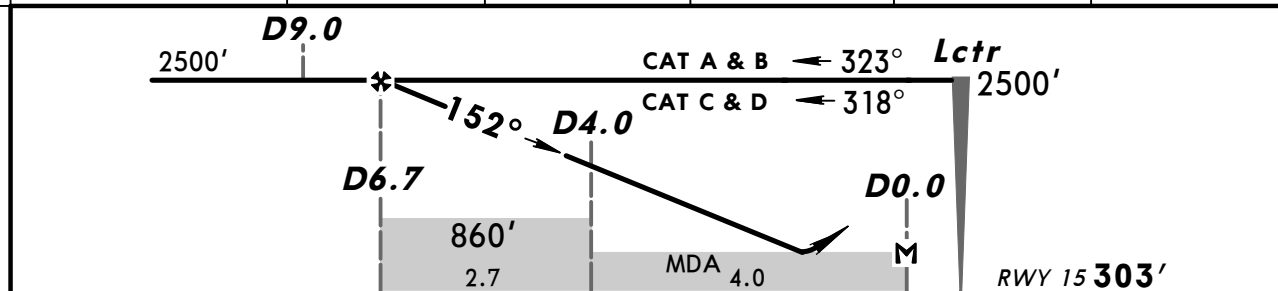
BIRMINGHAM, UK
NDB DME Rwy 15

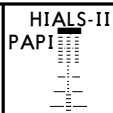
BRIEFING STRIP™

ATIS 136.02		BIRMINGHAM Approach (R) 118.05		BIRMINGHAM Tower 118.3		*Ground 121.8	
Lctr BHX 406	Final Apch Crs 152°	Procedure Alt D6.7 2500' (2197')	DA/MDA(H) 770' (467')	Apt Elev 328' RWY 303'			 MSA BHX Lctr
MISSED APCH: Climb STRAIGHT AHEAD to 1000', then turn RIGHT onto 169° to 3000', then as directed.							
Alt Set: hPa Rwy Elev: 11 hPa Trans level: By ATC Trans alt: 6000'							
1. ILS DME reads zero at rwy 15 displ thresh. 2. Final apch track offset 5° from rwy centerline. 3. Procedure MAX 185 KT.							



IBIR DME	6.0	5.0	4.0	3.0	2.0
ALTITUDE	2280'	1960'	1640'	1320'	1000'



Gnd speed-Kts	70	90	100	120	140	160		1000'	169°
Descent Angle	3.03°	375	482	536	643	750		↑	RT
MAP at D0.0									

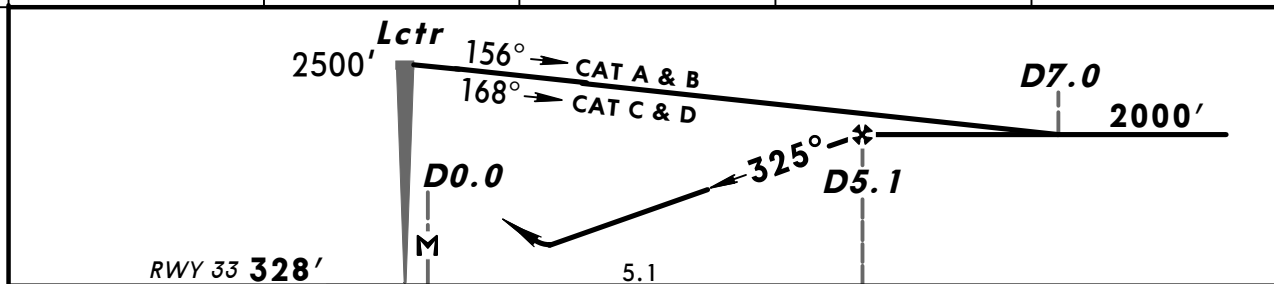
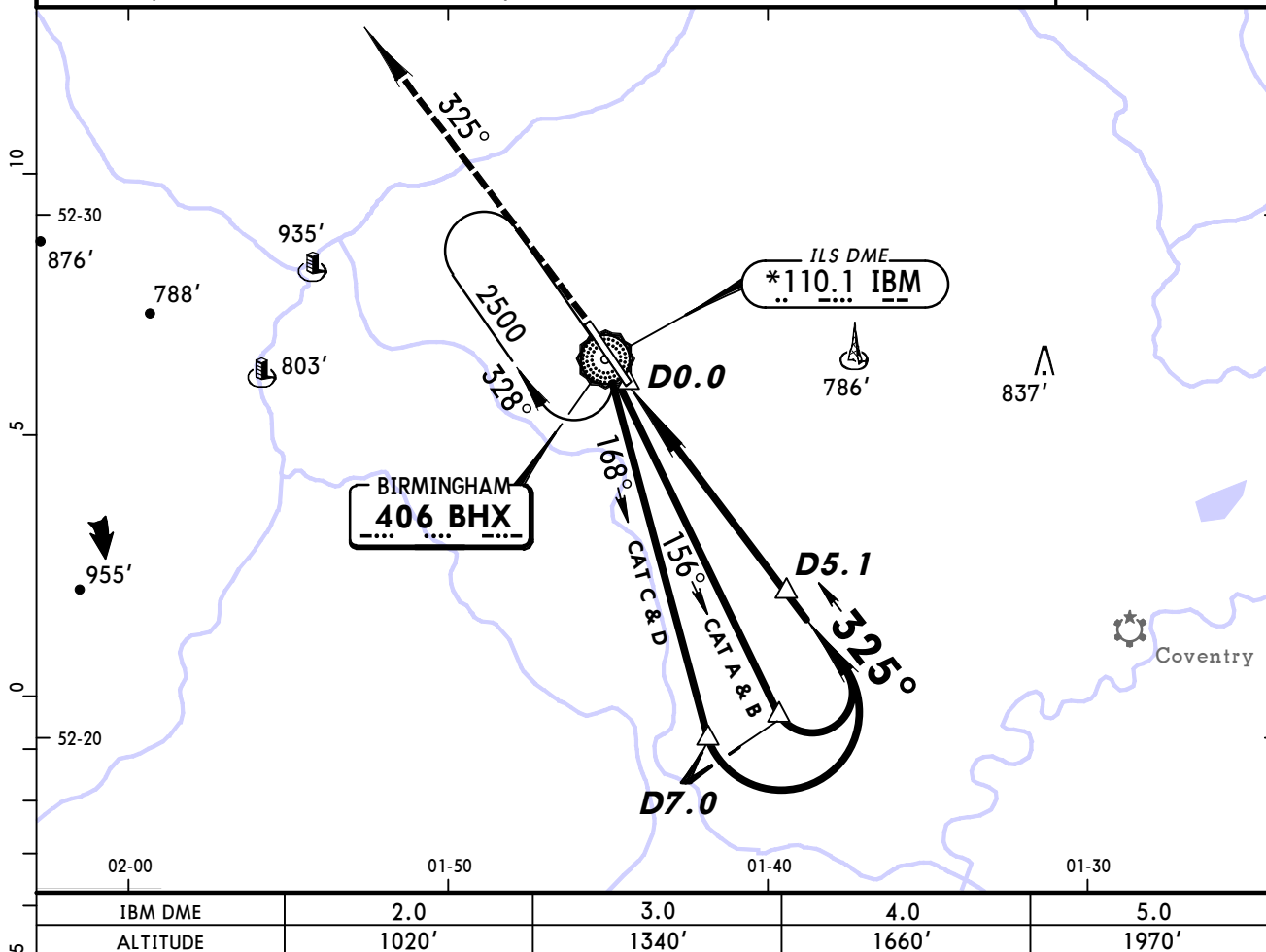
Standard				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 15							
CDFA							
DA/MDA(H) 770' (467')							
ALS out				Max Kts	MDA(H)	VIS	
A	RVR 1500m			100	810' (482')	1500m	
B				135	920' (592')	1600m	
C				180	1080' (752')	2400m	
D				205	1180' (852')	3600m	

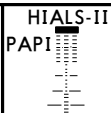
CHANGES: DME coordinates.

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BRIEFING STRIP

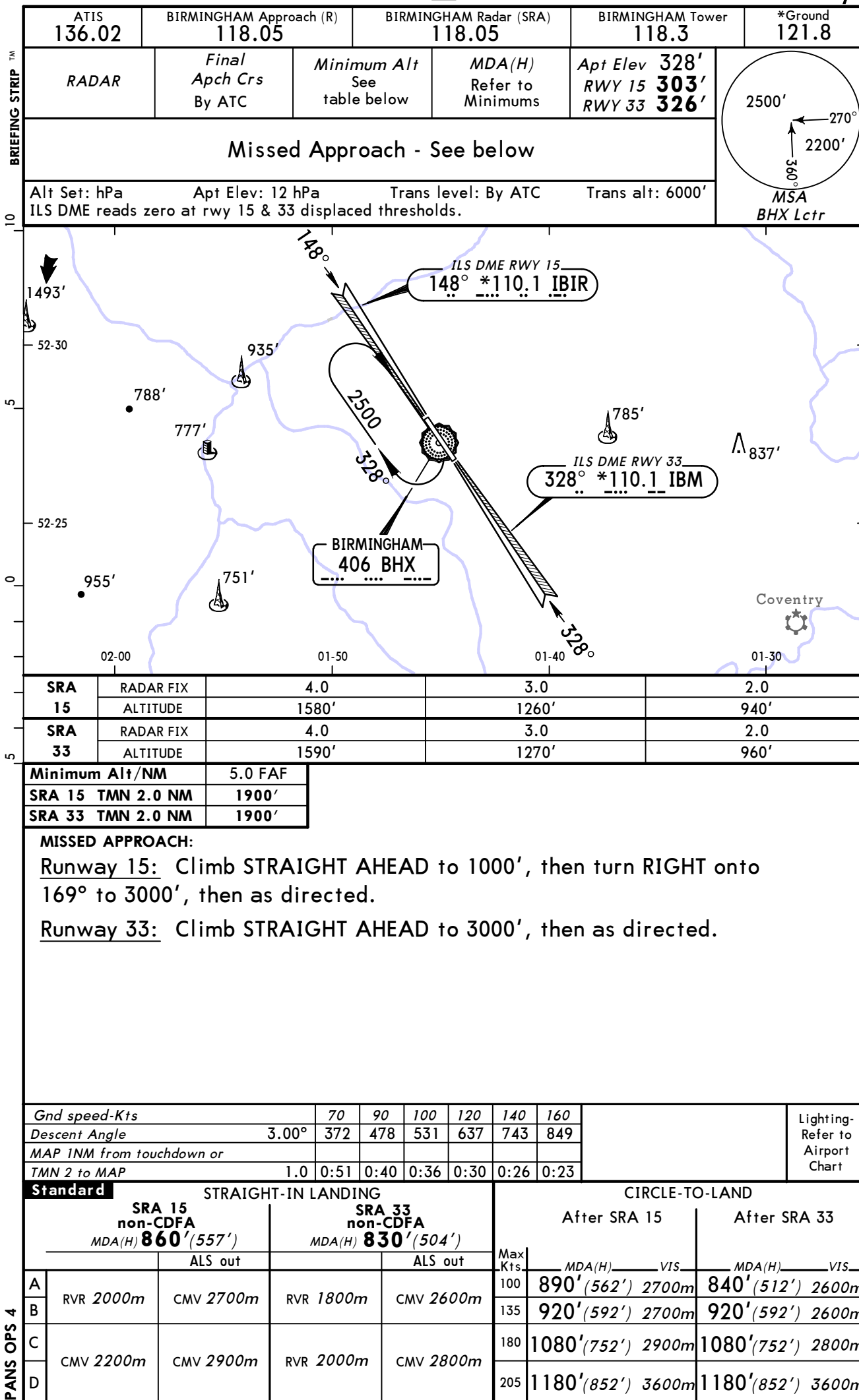
ATIS 136.02		BIRMINGHAM Approach (R) 118.05		BIRMINGHAM Tower 118.3		*Ground 121.8	
Lctr BHX 406	Final Apch Crs 325°	Minimum Alt D5.1 2000' (1672')	DA/MDA(H) 800' (472')	Apt Elev 328' RWY 328'		2500' 270° 2200' 360° MSA BHX Lctr	
MISSED APCH: Climb STRAIGHT AHEAD to 3000', then as directed.							
Alt Set: hPa Rwy Elev: 12 hPa Trans level: By ATC Trans alt: 6000' 1. ILS DME reads zero at rwy 33 thresh. 2. Procedure MAX 210 KT. 3. Final apch track offset 3° from runway centerline.							



Gnd speed-Kts	70	90	100	120	140	160	HIALS-II PAPI 	3000' ↑
Descent Angle	3.00°	372	478	531	637	743		
MAP at D0.0								

Standard				CIRCLE-TO-LAND			
STRAIGHT-IN LANDING RWY 33							
CDFA							
DA/MDA(H) 800' (472')							
ALS out				Max Kts	MDA(H)	VIS	
A	RVR 1500m			100	810' (482')	1500m	
B				135	920' (592')	1600m	
C	RVR 1500m			180	1080' (752')	2400m	
D				205	1180' (852')	3600m	

PANS OPS



BIRMINGHAM, (BIRMINGHAM - EGBB)

TERMINAL CHART CHANGE NOTICES

Chart Change Notices for Airport EGBB

Type: Terminal

Effectivity: Permanent

Begin Date: Immediately

End Date: No end date

Due to extension of Rwy 33 refer to temp chart 10-8 (Rwy extension layout) and 10-8A (temp approach minimums) and also to latest NOTAMs.