



Fixed-wing Operations v7

1. Introduction

1.1 The Redhill Aerodrome Traffic Zone (ATZ) is divided into two sections (i) the helicopter circuit and (ii) the fixed-wing circuit area. The dividing line is orientated according to the runway in use and extends to the boundary of the ATZ. Except in an emergency, or to practice bad weather circuits on Runway 08/26, fixed-wing aircraft shall not fly in the helicopter circuit area.

1.2 All procedures are based on the QNH. The QFE will only be provided if it requested by a pilot.

1.3 All aircraft must have a serviceable transponder or obtain an exemption from the Aerodrome Manager. Note: Aircraft operating with an exemption are prohibited from using Runway 18/36.

1.4 Fixed-wing operations will normally be conducted under VFR and observe the minima applicable to Class D airspace below 3000ft AMSL and less than 140kts IAS (surface in sight, visibility 5000m and/or cloud ceiling (BKN) 1500ft or above).

1.5 At night aircraft must be flown clear of cloud and with the surface in sight; at a height not less than 300m (1000ft) above the highest obstacle within a radius of 600m from the aircraft when over the congested areas of cities, towns or settlements or over an open-air assembly of persons: and

Elsewhere than specified above, at a height of more than 150m (500ft) above the ground or water, or 150m (500ft) above the highest obstacle within a radius of 150m (500ft) from the aircraft. SERA.5001, SERA.5005(a) and applicable CAA ORS General Exemptions.

1.6 An Air Traffic Control Service, callsign Redhill Tower, is provided between the hours notified in the UK IAIP and at other times as required by the Aerodrome Licensee.

2. Taxying

2.1 Fixed-wing taxying is restricted to paved taxiways and the grass areas north of Runway 08R/26L and east of the H18/H36. Pilots must exercise caution when taxying on the grass, especially west of Runway 18/36 where the surface is uneven. (UK IAIP EGKR AD 2.20 para 2 refers.) Grass areas, including the unlit runways, are only available between sunrise and sunset.

2.2 Fixed-wing aircraft must not vacate a runway until instructed to by so ATC. (UK IAIP EGKR AD 2.20 para 4 (c) refers.)

2.3 Specific clearances to cross a runway not in use will only be issued where the taxi route crosses the runway between the marked thresholds.

Note: for ATC and licensing purposes Runways 08L/26R and 08R/26L are treated as one; they cannot be used contemporaneously. A specific clearance to cross Runway 08L/26R will only be issued when it is in use as a runway.

2.4 Fixed-wing aircraft taxying must cross Runway 18 south of the displaced threshold.

3. Circuit Procedures

3.1 Fixed-wing aircraft shall fly the following circuit patterns, remaining south of the A25:

Runways 36 and 26 Right-hand circuit
Runways 08 and 18 Left-hand circuit.

3.2 Runway 08 - Avoid overflying Henhaw Farm. See Appendix 2.

3.2.1 Runway 26 - fly the crosswind/base-leg over the middle of Benting Wood and between the M23 and the Outwood Road, as appropriate. See appendix 2.

3.3 Runway 36 - the base-leg turn must be made immediately on passing Burstow Park Farm.

3.4 Runway 18 - the crosswind turn must be made no later than crossing Axes Lane. The crosswind/base-legs must be flown parallel with 08/26.

3.5 There is **NO DEADSIDE** - helicopters fly a circuit pattern opposite to that used by fixed-wing aircraft. The fixed-wing circuit altitude is 1,200ft. QNH. See Appendix 3 & 4.

3.6 The maximum number of fixed-wing aircraft permitted to fly circuits at any one time is restricted as follows: Runways 08, 18 and 26 - 4, Runway 36 – 3.

3.7 The fixed-wing circuit will be closed if the reported meteorological visibility is less than 5000m and/or the cloud ceiling (BKN) is below 1,300 ft. ATC may also restrict the numbers of aircraft in the circuit if they cannot maintain visual contact with aircraft throughout the circuit pattern.

3.8 Flapless and glide approaches must be requested and are subject to ATC approval.

3.9 Practice fan-stops are permitted in the climb out from Runway 08 however; these are restricted to 3 per detail per aircraft. Pilots are to call the R/T prior to commencing the exercise, this call will be acknowledged by ATC with the instruction to report climbing. From all other runways the exercise will be simulated by the instructor initiating a go-around on final approach and completing the exercise over the Aerodrome. *[When these exercises are conducted outside the Aerodrome boundary pilots are required to conform to SERA.5005(f) as amended by CAA Official Record Series General Permissions.]*

4. Visual Reference Points (VRPs)

ATC will require all aircraft to route via one of the following VRPs depending on the runway in use:

Visual Reference Point	Lat/Long (WGS84)
Junction (junction of M25/M23 motorways)	511550N 0000741W
Godstone (junction of A25 and B2236 roads)	511450N 0000401W
South Godstone Station (Godstone Railway Station)	511305N 0000304W
Buckland (Buckland Lake)	511424N 0001445W

5. Departures

5.1 In order to de-conflict departing fixed-wing aircraft and helicopters, fixed-wing departing VFR must climb to 1400ft QNH and remain outside controlled airspace.

5.2 The following VFR routings will be issued by ATC to departing fixed-wing aircraft:

Runway 08	Outbound Routing
East – South Godstone Station VRP	Track the extended centre-line remaining <u>south of Henhaw Farm</u> to join the Redhill/Tonbridge railway line follow to South Godstone Station.
West & North – Junction VRP	Track the extended centre-line cross the M23 remaining <u>south and east of Henhaw Farm</u> then turn north to the M23/M25 junction.
Runway 26	Outbound Routing
East – Godstone VRP	Track the extended centre-line to <u>Benting Wood</u> (See Appendix 2) then make a right turn to follow the circuit pattern remaining <u>south</u> of the A25 to Godstone
West & North – Buckland VRP	Track the extended centre-line until <u>Benting Wood</u> then commence a right turn to Buckland avoid the built up areas.
Runway 18	Outbound Routing
West & North – Junction VRP	Make a left turn at Axes Lane/Green Lane to track parallel with Rwy 08 then turn north east-side of the M23 and <u>east of Henhaw Farm</u> to the M23/M25 Junction. Note: avoid turning too early and overflying South Hale Farm.
East – South Godstone Station VRP	Make an left turn at Axes Lane/Green Lane to track parallel with Rwy 08 on crossing the M23 a slight right turn to join the Redhill/Tonbridge railway line and follow it to Godstone Station. Note: avoid turning too early and overflying South Hale Farm.
Runway 36	Outbound Routing
West – North of Reigate	Track the extended centre-line until crossing A25 road, then commence a left turn to route <u>north</u> of Reigate.
East – Godstone VRP	Track the extended centre-line; make a right turn to follow the <u>south-side</u> of the A25 to Godstone.

5.3 ATC will issue the outbound routing together with an altitude restriction to the aircraft at the holding point prior to issuing of a take-off clearance. This must be read back. Aircraft unable to comply with these routings must inform ATC prior to departure.

6. Arrivals

6.1 Inbound fixed-wing aircraft are to monitor the ATIS (125.300MHz) prior to establishing contact with Redhill ATC on 119.600MHz at least 5 minutes before their ETA at the appropriate VRP. This enables ATC to pass traffic information and plan the join.

6.2 The standard VFR routings are:

Runway 08	Inbound Routing
East – Godstone VRP	Follow the A25, remaining south-side, descend to 1200ft QNH prior to the M23 and join left hand downwind.
West & North – Buckland VRP	Enter the ATZ at 1400ft QNH routing west and south of Reigate then remain north and parallel with 08L (Overhead Join). When instructed descend to 1200ft QNH and join the left hand circuit pattern.

Runway 26	Inbound Routing
East – South Godstone Station VRP	Enter the ATZ at 1400ft QNH remaining north and parallel with 26R (Overhead Join). When instructed descend to 1200ft QNH and join the right hand circuit pattern.
West & North – Junction VRP	Join right hand base-leg, descending to 1200ft QNH by the A25, remaining <u>east</u> of M23 and <u>east</u> of Henhaw Farm.
Runway 18	Inbound Routing
West & North – North of Reigate	Enter the ATZ remaining east and parallel to 18 (Overhead Join). When instructed descend to 1200ft QNH and join the left hand circuit pattern.
East – Godstone VRP	Follow the A25, remaining south side of the road, descending to 1200ft QNH by the M23 and join on to left base leg.
Runway 36	Inbound Routing
West & North – Junction VRP	Join right hand downwind, descending to 1200ft QNH by the A25, remaining <u>east</u> of M23 and <u>east</u> of Henhaw Farm.
East – South Godstone Station VRP	Join on to right base leg, remaining within the ATZ, descending as required.

6.3 Fixed-wing aircraft operated by based Flying Training Organisations will not be given a straight-in approach unless specifically requested by the pilot in command.

Useful tip: Overhead Joins – enter the ATZ parallel with the runway in use aiming to fly directly over the Tower.

7. Holding Outside the ATZ

Contrary to MATS Part 1 Section 3 Chapter 1 Redhill ATC may require an aircraft to hold (or orbit) at a VRP before entering the ATZ. Normally only one aircraft should be held at a VRP however, if it is necessary to hold more than one aircraft at a particular VRP traffic information will be passed to all pilots concerned.

8. Practice Fan-Stops – Fixed-wing

Practice fan-stops are permitted in the climb out from Runway 08 however; these are restricted to 3 per detail per aircraft. Pilots are to call the R/T prior to commencing the exercise, this call will be acknowledged by ATC with the instruction to report climbing. From all other runways the exercise will be simulated by the instructor initiating a go-around on final approach and completing the exercise over the Aerodrome.

9. Redhill SSR Codes

- 9.1 Pilots must not select the Redhill conspicuity code until instructed to do so by ATC.
- 9.2 Redhill ATC provides a service within 10nm of the Aerodrome. Pilots local flying outside this area should inform ATC on passing 10nm when they will be instructed to select A7000.
- 9.3 When operating from the Aerodrome outside ATC hours pilots must select A7012 and monitor Gatwick Director 126.825MHz.

10. Automatic Terminal Information Service (ATIS)

10.1 The ATIS provides pilots with weather and aerodrome information. Each broadcast has a code letter and pilots are required to monitor the ATIS; acknowledge the information received on first contact with ATC and include the QNH.

10.2 Pilots must listen the ATIS on frequency 125.300 MHz or via telephone 01737 822947 before contacting ATC.

10.3 Outside ATC hours the information is compiled automatically and therefore not checked for accuracy. The broadcast states "This is Redhill Automatic Information (code letter) time _____", the runway in use is omitted from the broadcast. **Pilots using the ATIS outside ATC hours must be aware of the limitations of automatic meteorological observing equipment.**

11. Use of Unlicensed Runway 07/25

11.1 A section of taxiway on the south-side of the Aerodrome has been marked as an unlicensed runway.

11.2 Fixed-wing aircraft may only use this unlicensed runway when the grass runways have been withdrawn from use due to surface conditions.

11.3 The unlicensed runway, 498m x 10m, is marked on a 14m wide taxiway.

11.4 The following operating restrictions apply to the use of this unlicensed runway:

- i) The runway is only available between sunrise and official night.
- ii) ATC will ensure that any Group 1 helicopter is no closer than 60m and any Group 2 helicopter is at least 120m to the edge of the taxiway.
- iii) Any helicopter in the Eastern Hover Square must remain on the ground whilst a fixed-wing is departing on Runway 07 landing on Runway 25.
- iv) Any helicopter in the Western Hover Square must remain on the ground whilst a fixed-wing is landing on 07.

12. RTF Procedures

12.1 It greatly assists ATC if pilots adopt the following, modified, RTF procedures:

12.2 Outbound: "Redhill Tower (callsign) outbound Information ___ QNH ___"

12.2.1 When ATC say 'Pass your message' give the following details: "(callsign) (registration if different to callsign) (type) (POB) (parking area) request taxi for (local east or west/destination/circuits*)" *as appropriate

12.3 Fuel - Initial contact: "Redhill Tower (callsign) request taxi fuel."

12.4 Initial contact (inbound from another aerodrome): "Redhill Tower (callsign) inbound Information ___ QNH ___."

12.5 Re-joining from local flying: "Redhill Tower (callsign) re-joining from (direction) Information ___ QNH ___."

12.6 Please ensure that you read back mandatory instructions/information. At Redhill these will usually be:

- (i) taxi instructions
- (ii) altitude instructions
- (iii) runway in use
- (iv) clearance to enter, land, take-off, backtrack, cross or hold short of any active runway
- (v) altimeter settings
- (vi) frequency changes
- (vii) route clearances (Gatwick CTR)
- (viii) SSR code.

A full list is set out in CAP413 Radiotelephony Manual.

12.6.1 ATC are required to ensure that pilots read back these items. When pilots do not comply ATC have to make additional transmissions until a read back of all the applicable items has been obtained.

13. Noise Abatement Procedures

13.1 The Aerodrome Licensee publishes certain local procedures or restrictions designed to minimise the nuisance caused to local residents. These are:

- (a) Pilots are to operate their aircraft in a manner that will minimise the disturbance caused to local residents.
- (b) Aerobatic manoeuvres are prohibited within the Redhill ATZ.
- (c) Runway 08R/26L is the preferential runway.
- (d) Fixed-wing aircraft departing Runway 08L/R must climb straight ahead, tracking the extended centre-line, until passed Henhaw Farm before turning on track.
- (e) Fixed-wing aircraft departing Runway 26L/R must climb straight ahead, tracking the extended centre-line, until reaching the centre of Benting Wood before turning on track.
- (f) Multi-engine fixed-wing aircraft may only use Runway 18/36 when the surface wind precludes the safe use of Runway 08R/26L.
- (g) Circuit training by multi-engine fixed-wing aircraft is not permitted on Runway 18/36.
- (h) Circuit training by multi-engine fixed-wing aircraft, except night flying, is not permitted after 1830 hours local time or at any time on a Sunday.
- (i) Helicopter night flying training within the ATZ is not permitted after 2359 hours local time Monday to Friday.
- (j) Helicopter night flying training within the ATZ is prohibited on Saturday and Sunday.

- (k) During ATC hours all ground running of helicopters for maintenance purposes is subject to ATC approval. Except for Police and Air Ambulance helicopters ground runs shall not take place prior to 0800 hours or after 2100 hours local time.
- (l) Except for Police, Air Ambulance and based news gathering helicopters flights are not normally permitted during 0001 hours to 0700 hours Monday to Saturday or during the periods of 0001 hours to 0800 hours and 2200 hours to 2359 hours on a Sunday. All times are Local.
- (m) Helicopters departing from the Runway 18 displaced threshold markings to the north are to use their best angle of climb speed.
- (n) Except for Category A or B flights (MATS Part 1 Section 1 Chapter 4) helicopter departures or arrivals via the Runway 18 displaced threshold markings are not permitted below the circuit altitude.
- (o) Helicopter departures or arrivals via the Runway 18 displaced threshold markings are not permitted if the tail wind component exceeds 10kts.

14. Helicopter Operations

14.1 Helicopter operations by single engine piston/turbine and medium/heavy multi-engine turbine helicopters take place at Redhill - **caution wake turbulence**.

14.2 Care must be taken on approach and departure from all runways not to drift into the helicopter circuit area.

14.3 Air taxiing helicopters direct a forceful blast of air downwards which rolls out in all directions. Also, when a helicopter's weight is transferred from the landing gear to the rotor a strong downwash is created. Fixed-wing aircraft must not be parked close to helicopter aprons or stands.

14.4 ICAO divides helicopters into groups according to their MAUW. A list of helicopters, their wake turbulence classification together with the dimensions of the largest helicopter in each group is set out below.

ICAO Helicopter Groups/Wake Turbulence Categories

Group 1	Types
Max overall length: 13m Wake Turbulence Category: Light	ALOU, AS50, B06, B407, EC20, EN28, EN48, H269, H500, MD52, MD60, R22, R44, R66, S330 and SCOU.
Group 2	Types
Max overall length: 17m Wake Turbulence Category: Light	A109, A139, A169, A189, B205, B212, B427, B105, BK17, AS55, AS65, EC15, EC35, EC75, EXPL, S76 and LYNX.
Group 3	Types
Max overall length: 23m Wake Turbulence Category: Small	BSTP, EH01, H53, H47, PUMA, AS32, EC25, S61, S64, H65 and S92.

14.4.1 Fixed-wing pilots should maintain a distance of at least 3 x the rotor diameter from a helicopter. The maximum overall length in the table is based on the largest helicopter in each category; pilots may use this information as a guide to the distance required between themselves and a helicopter.

15. Fixed-wing Operations Outside the Published Aerodrome Hours

15.1 Use of Redhill Aerodrome outside the hours published in the UK AIP AD 2 - EGKR - 1 - 1 section AD 2.3 is restricted to operators who have obtained prior permission from the Aerodrome Manager, have a valid Out of Hours Permit and comply with the conditions stated within the Permit.

15.1.1 Due to uncontrolled works (grass cutting and sweeping) that take place prior to ATC opening fixed-wing Out of Hours Permits are only valid after 1900 hours for the period 1900 – 2200 hours (summer only). UK IAIP EGKR AD 2.20 para 1 (d) refers.

15.2 The Aerodrome will not provide ATC nor RFFS facilities as required under the Air Navigation Order 2009 Article 211 (7) Schedule 12.

15.3 With the exception of NPAS, KSSAA and BBC News/Sky News movements are not normally permitted before 0600 hours or after 2359 hours Monday – Saturday or before 0800 hours or after 2200 hours on Sundays. All times local.

15.4 Prior notification must be given to Redhill ATC via email: oooh@redhillaerodrome.com of the intention to operate outside ATC hours. Details must include registration, POB destination or point of departure and ETA/ETD. A second email must be sent once the flight has been completed with ATA/ATD.

15.5 Except for NPAS/KSSAA flights that have obtained specific permission from the Aerodrome Licensee training, circuit flying or maintenance flights are not permitted.

15.6 The pilot/operator agrees that no claim will be made against Redhill Aerodrome Limited or any group/company or any of their respective servants or agents, in respect of any loss or damage to property that may be suffered whilst using the aerodrome facilities outside the published hours of availability.

15.7 No waiver of claim or indemnity is sought in respect of personnel injury or death but Redhill Aerodrome Limited wishes to make it clear that it will seek to defend itself against claims for personnel injury or death arising out of use of the aerodrome outside the published hours of availability.

15.8 A surcharge will be applied to departures and arrivals prior to the published ATC hours. Where the same flight departs and arrives during these times only one surcharge will be charged.

Note: (a) Redhill Aerodrome Limited reserves the right to require an ATC service to be provided and to charge operators accordingly.

(b) Surrey Police dog units and other personnel may be operating on the Aerodrome outside ATC hours.

16. Out of Hours Arrival and Departure Procedures

16.1 All departures and arrivals are to be flown so as to remain within the Redhill ATZ which is designated as active H24. Rules applicable to Class D airspace apply. Permission to fly within the ATZ is granted when the permission to operate outside ATC hours is granted.

16.2 Flights must not enter the Gatwick CTR/CTA unless a positive clearance has been obtained from Gatwick ATC. Specific procedures apply for NPAS/KSSAA operations.

16.3 Outside ATC hours the ATIS operates in automatic mode. Pilots must obtain the meteorological information prior to selecting the runway to be used. Pilots must be aware of the limitations of automatic meteorological observing systems.

16.4 Pilots must make standard inbound and outbound broadcasts of their intentions on 119.60MHz including changing frequency. This information must include the runway they are using. CAP413 page 61 refers.

16.5 Pilot Activated Lighting (PAL) is available. This activates the Runway 08R/26L runway edge, threshold, stop end lights, PAPI, 26L Approach lights and taxiway A and E edge lights. The PAL may be activated by KSSAA or NPAS via TETRA radio or by commercial/private operators via VHF (1 long click and 4 short clicks within 5 seconds). The lighting operates for 15 minutes after activation. A new 15 minute period is started after any transmission on the Tower frequency.

16.6 At night helicopters arrivals and departures should normally use Runway 08R/26L or the H08/H26 unless the surface wind dictates use of another direction.

16.7 Unless there is an overriding flight safety or operational requirement pilots must comply with the standard arrival and departure routes.

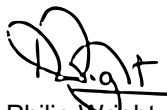
16.8 Unless operating on a discrete SSR code pilots must select **SSR code 7012** and, if able, monitor Gatwick Approach 126.825MHz.

16.9 Helicopters use the Aerodrome H24. Fixed-wing pilots are to ensure they comply with standard arrival/departure procedures at all times. The Air Ambulances, callsign **Helimed 60A and Helimed 21A**, together with the NPAS helicopter, callsign **Police 37**, must be afforded priority over arriving or departing fixed-wing.

17. Hi-Visibility Clothing

17.1 This is only required to be worn during daylight hours by persons, on foot, on the runways/taxiways, **excluding aprons**, and pilots/ops staff engaged in helicopter rotors-running or fixed-wing engine running crew/passenger change overs.

17.2 At night all pilots/ops staff on foot must wear high visibility clothing on taxiways, runways and aprons.



Philip Wright
Aerodrome Manager/SATCO

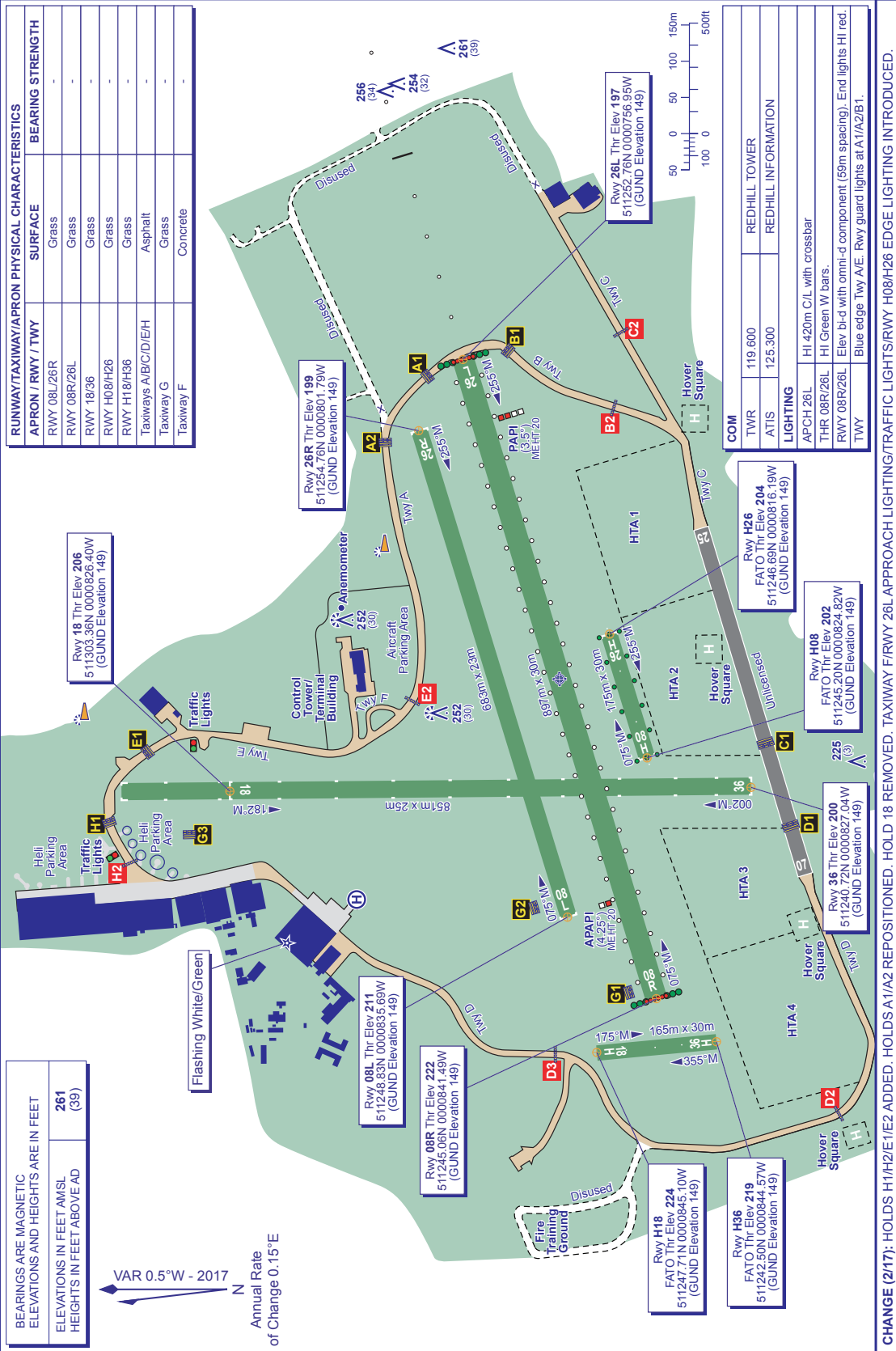
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Appendix 1 – Aerodrome Layout

REDHILL EGKR

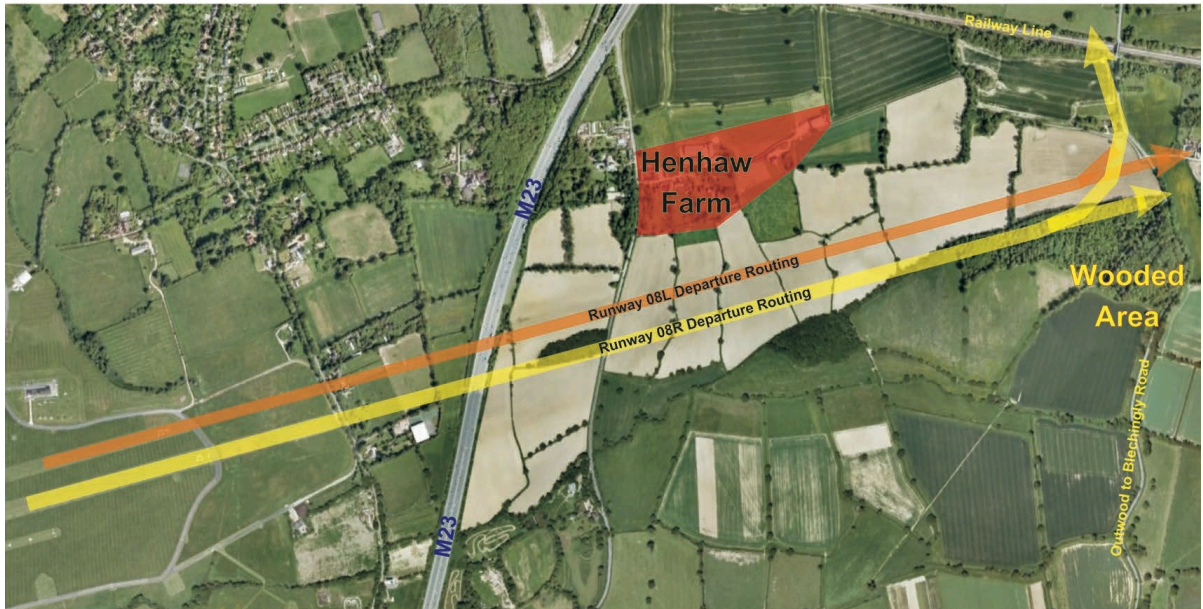
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AERODROME CHART - ICAO



AERO INFO DATE 15 NOV 16

Runway 08L & 08R Departure Routings

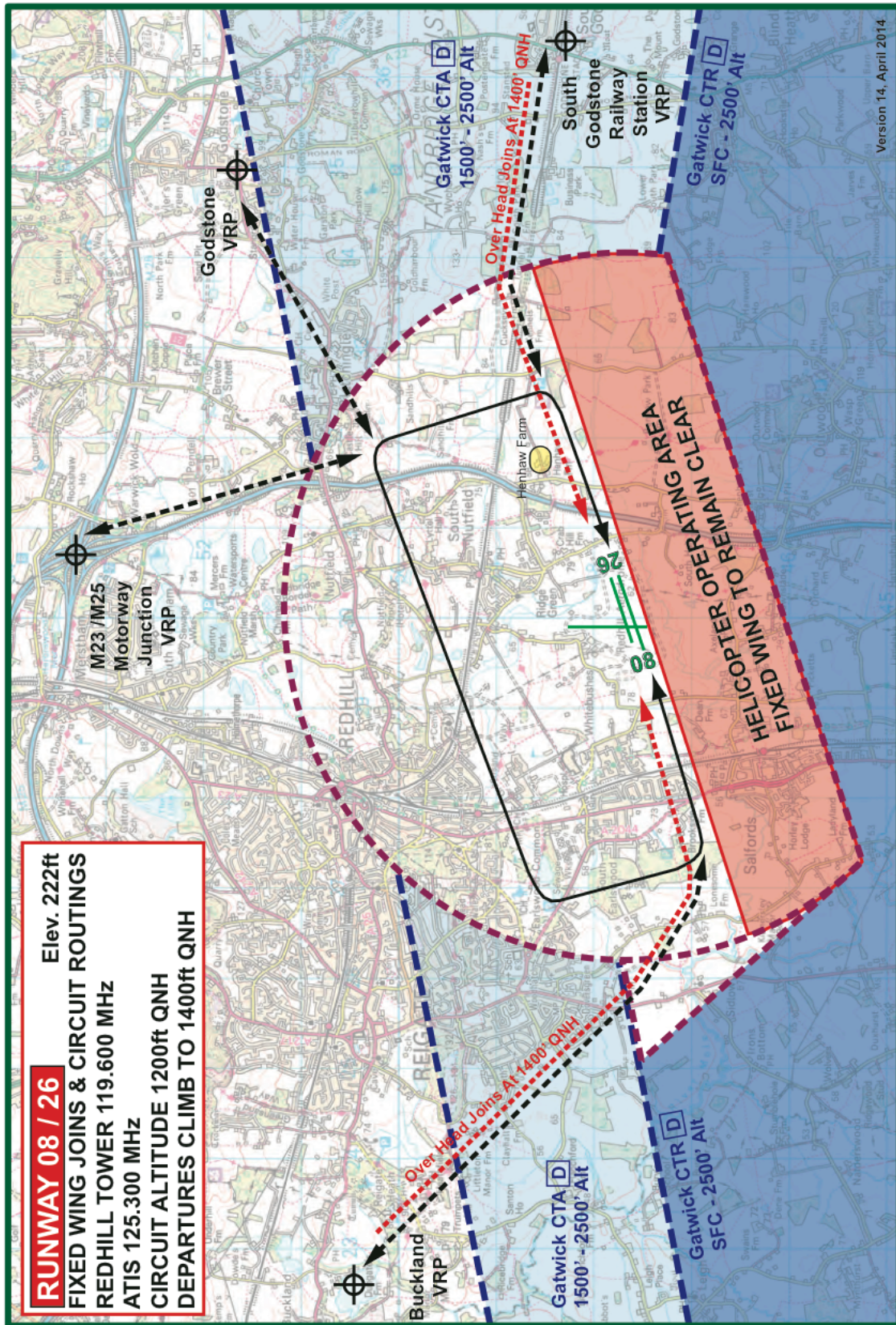


Runway 26L & 26R Departure Routings

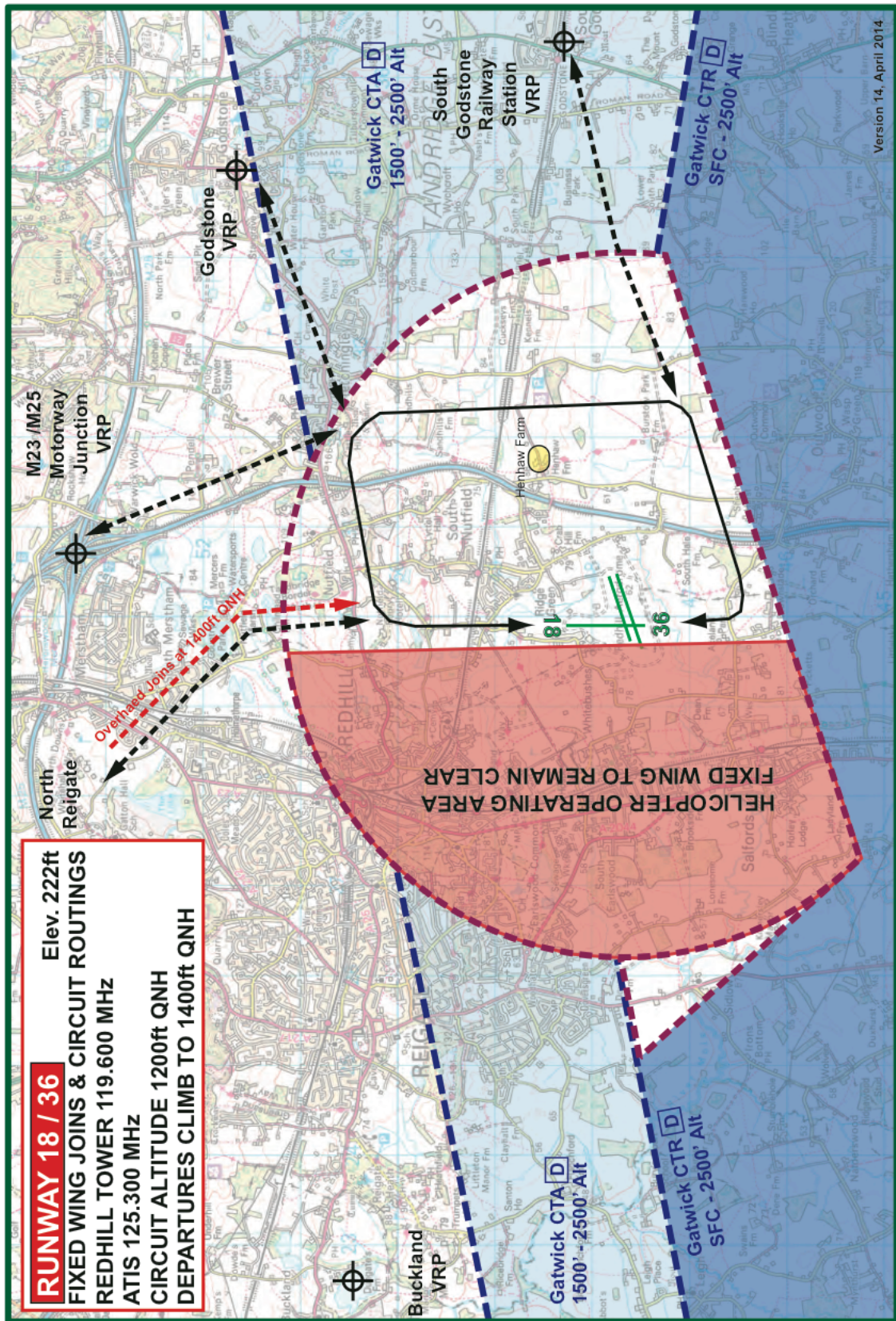


Do not turn until passed the areas shaded on the charts

Appendix 3 – Runway 08/26 Arrival/Departure Routes



Appendix 4 – Runway 18/36 Arrival/Departure Routings



Version 14, April 2014