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# IRISH AVIATION AUTHORITY

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## Review of Irish Airspace

**This document should be read in conjunction with AIC Nr 002/2021**

### 1. Purpose

- 1.1 The primary purpose of this document is to appraise all airspace users and interested parties of the responses received on foot of the Review of Irish Airspace, detailed in AIC Nr 002/2021, and the proposed airspace changes.

### 2. General

- 2.1 This review of Irish Airspace is a joint initiative between the IAA ATM Operations & Strategy (IAA ATM) and the IAA Safety Regulatory Division (IAA SRD) to enhance airspace and instrument flight procedures based on both conventional and Performance Based Navigation (PBN).

### 3. 12<sup>th</sup> August 2021 ACP Consultation

- 3.1 A total of 92 submissions outlining 864 comments were received from interested parties.

### 4. Airspace Construction Principles

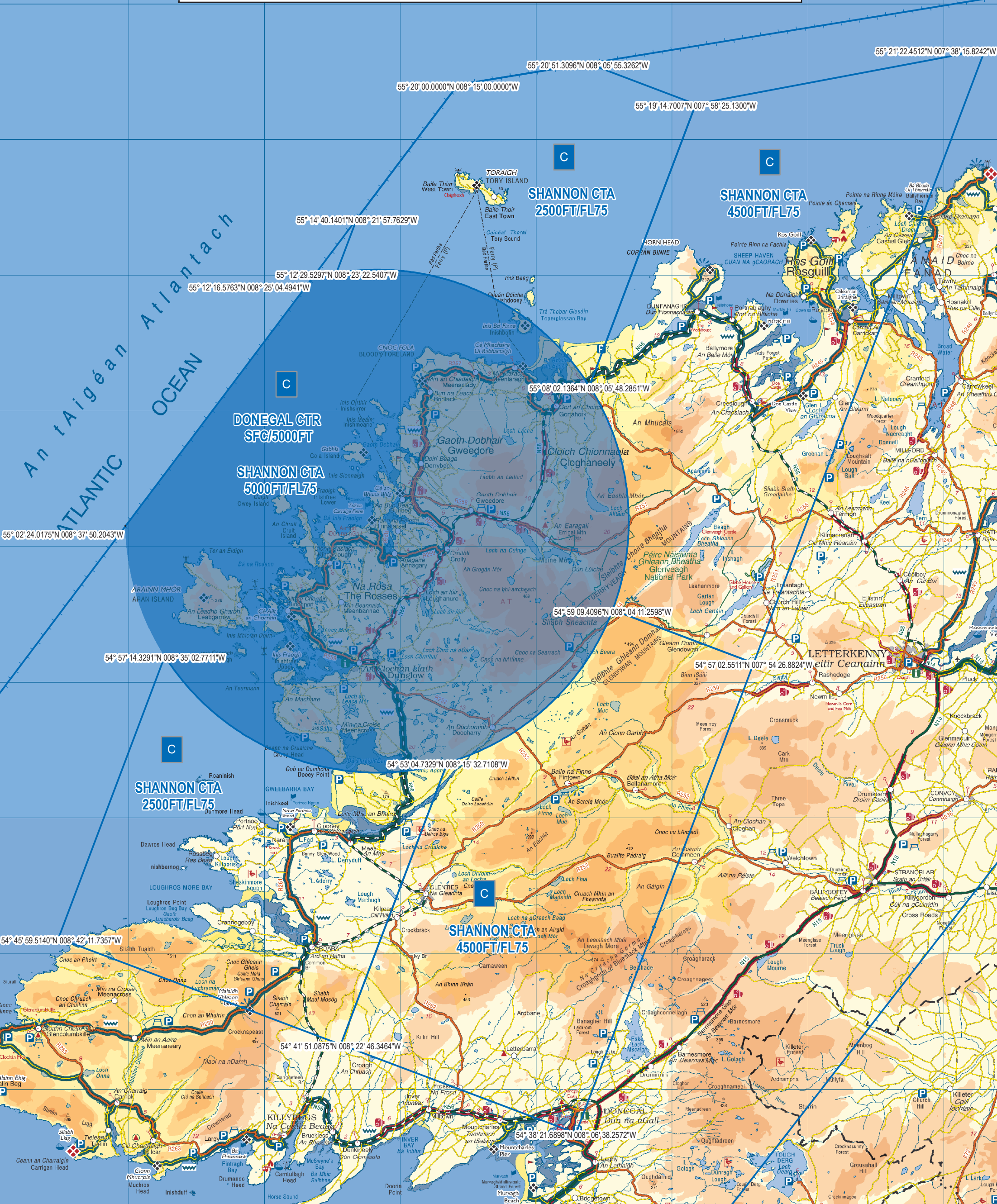
#### 4.1 Regional Airports Airspace Construction Principles:

- 4.1.1 The nominal and primary protection splay areas of an Instrument Flight Procedure (IFP's) must be wholly contained within Class C airspace.
- 4.1.2 A 500ft vertical buffer is provided between the nominal aircraft position and the top of Class G airspace.
- 4.1.3 ATC procedural separations
- 4.1.4 Proposed airspace design resulting in a reduction of Class C airspace where possible.
- 4.1.5 Environmental
- 4.1.5.1 Continuous Climb Operations and Continuous Descent Operations (CCO/CDO) to/from airports using the inverted tiered airspace concept
- 4.1.6 Reduced IFP track miles where possible
- 4.1.7 The Waterford and Sligo airspace is designated as a Transponder Mandatory Zone (TMZ) and Radio Mandatory Zone (RMZ), during the hours when an Aerodrome Flight Information Service is provided
- 4.1.8 Shannon ATM will provide 5nm radar separation from known traffic
- 4.1.9 Regional airspace is activated via NOTAM as Class C during the hours of ATS and reverts to Class G outside of these times (See AIP Ireland and NOTAM).
- 4.1.10 Airspace Classification
- 4.1.10.1 During periods when no ATC service is provided at Donegal, or Connaught, or Kerry, or Sligo, or Waterford airport then:
- 4.1.10.1.1 The control zone associated with that airport and,
- 4.1.10.1.2 The associated controlled airspace defined in the AREA database as Eastern Stub and Western Stub, or Northern Stub and Southern Stub, and Base 5000, shall revert from Class C airspace to Class G airspace.

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- 4.2** COMMISSION IMPLEMENTING REGULATION (EU) 2020/469 of 14 February 2020 (It shall apply from 27 January 2022.)
- 4.2.1 Appendix 1 - SECTION I - Specifications for flight information regions, control areas, control zones and flight information zones
- 4.2.1.1 (b) CONTROL AREAS
- 4.2.1.2 (2) A lower limit of a control area shall be established at a height above the ground or water of not less than 200 m (700 ft), unless otherwise prescribed by the competent authority.
- 4.3** COMMISSION IMPLEMENTING REGULATION (EU) No 923/2012 of 26 September 2012
- 4.3.1 Appendix 3 - Table of cruising levels - VFR Flights
- 4.3.1.1 The following VFR cruising levels were not available to be used as the base of controlled airspace as they are within the Transition Layer
- 4.3.1.2 5500ft and 6500ft bases of controlled airspaces are not available as they are within the transition layer
- 4.4** A European Flexible Use of Airspace (FUA) Task Force to “harmonise” the application of the ICAO ATS airspace (A-G) classifications within ECAC concluded on two ICAO ATS airspace classifications - Known Airspace (Class C) and Unknown Airspace (Class G).
- 4.5** The base of controlled airspace will remain at FL75.
- 4.6** Access to controlled Class C airspace is as per current requirements detailed in AIP Ireland ENR 1-10 (Flight planning).
- 4.7** Performance Based Navigation (PBN)
- 4.7.1 ICAO
- 4.7.1.1 ICAO's Global Air Navigation Plan (GANP) 2013-2028 sets out the introduction of Performance Based Navigation (PBN) as its highest priority. The ICAO PBN Implementation Plan for Ireland is available on the [IAA web site](#)
- 4.7.2 European Union
- 4.7.2.1 EU Regulation 2018/1048 - PBN IR lays down airspace usage requirements and operating procedures concerning performance-based navigation 2030. The EU PBN Transition Plan for Ireland is available on the [IAA web site](#).
- 4.8** These proposed airspace designs may be subject to adjustment following further consultation (solely on the designs) with comments accepted up to COB on the 04th November 2021.
- 5. Proposed Airspace Change Details**
- 5.1** The Proposed Airspace Change to be displayed on the IAA web site from the 07<sup>th</sup> October are outlined as follows:
- 5.1.1 Appendix A – Diagram showing Airspace Change – Shannon CTA – Donegal
- 5.1.2 Appendix B – Diagram showing Airspace Change – Shannon CTA – Waterford
- 5.1.3 Appendix C – Diagram showing Airspace Change – Shannon CTA - Ireland West
- 5.1.4 Appendix E – Diagram showing Airspace Change – Shannon CTA - Sligo
- 6. Consultation of the Proposed Airspace Change Details**
- 6.1** A workshop using Microsoft teams will be held on Thursday, 21st October 2021, time to be confirmed.
- 6.2** Comments from the 07th October updated airspace change proposals shall be accepted up to COB on Thursday 04th November 2021 with final airspace published on Thursday 02nd December, 2021 for viewing.
- 6.3** Planned AIRAC Effectives Date
- 6.3.1.1 02nd December 2021 AIS sign-off for 24th February 2022 effective date
- 6.4** These final airspace designs may be subject to adjustment following regulatory verification and validation prior to publication.



**AIRSPACE CHANGE PROPOSAL - DONEGAL CTR & SHANNON CTA**



THIS CHART IS FOR INFORMATION PURPOSES ONLY, IT SHALL NOT BE USED FOR NAVIGATION.

**LEGEND**

- FIR BOUNDARY
- PROPOSED SHANNON CONTROL AREA (CTA)
- PROPOSED EIDL CONTROL ZONE (CTR)

**EIDL CONTROL ZONE (CTR)**  
(COORDINATES - LATITUDE/LONGITUDE) :

EIDL ARP 55° 02' 39.0891"N, 008° 20' 27.5960"W

1. 55° 12' 16.5763"N, 008° 25' 04.4941"W  
2. 55° 02' 24.0175"N, 008° 37' 50.2043"W  
Arc anticlockwise 10nm radius EIDL ARP

**EIDL NORTHERN STUB**  
EST. COORDINATES (LATITUDE/LONGITUDE)

1. 55° 19' 14.7007"N, 007° 58' 25.1300"W  
2. 55° 08' 02.1364"N, 008° 05' 48.2851"W  
Arc anticlockwise 10nm radius EIDL ARP

3. 55° 12' 29.5297"N, 008° 23' 22.5407"W  
4. 55° 14' 40.1401"N, 008° 21' 57.7629"W  
5. 55° 20' 00.0000"N, 008° 15' 00.0000"W  
6. 55° 20' 51.3096"N, 008° 05' 55.3262"W

**EIDL SOUTHERN STUB**  
EST. COORDINATES (LATITUDE/LONGITUDE)

1. 54° 53' 04.7329"N, 008° 15' 32.7108"W  
2. 54° 41' 51.0875"N, 008° 22' 46.3464"W  
3. 54° 45' 59.5140"N, 008° 42' 11.7357"W  
4. 54° 57' 14.3291"N, 008° 35' 02.7711"W  
Arc anticlockwise 10nm radius EIDL ARP

**EIDL NORTH EASTERN STUB**  
EST. COORDINATES (LATITUDE/LONGITUDE)

1. 55° 19' 14.7007"N, 007° 58' 25.1300"W  
2. 55° 21' 22.4512"N, 007° 38' 15.8242"W  
3. 54° 57' 02.5511"N, 007° 54' 26.8824"W  
4. 54° 59' 09.4096"N, 008° 04' 11.2598"W  
Arc anticlockwise 10nm radius EIDL ARP

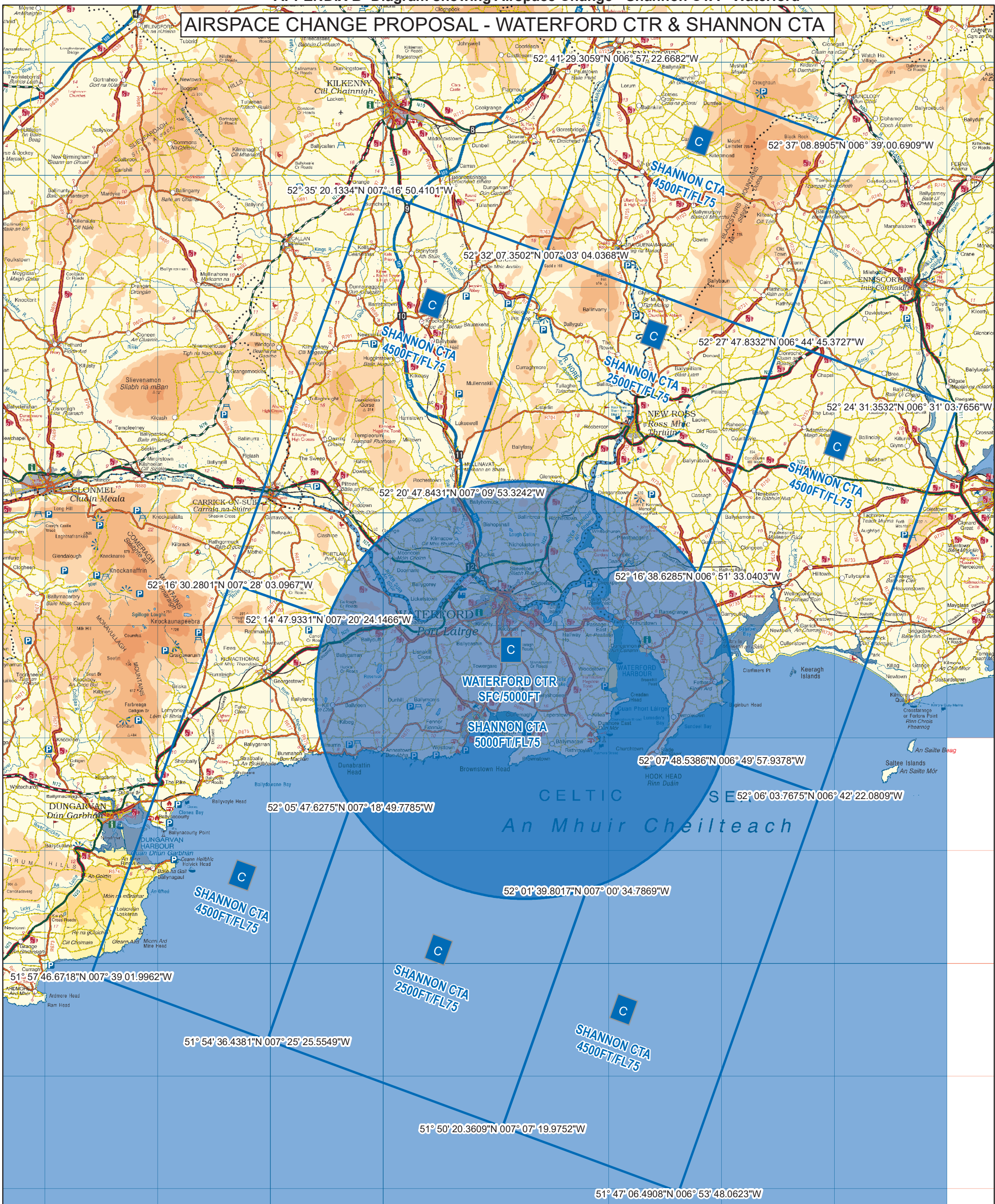
5. 55° 08' 02.1364"N, 008° 05' 48.2851"W

**EIDL SOUTH EASTERN STUB**  
EST. COORDINATES (LATITUDE/LONGITUDE)

1. 54° 59' 09.4096"N, 008° 04' 11.2598"W  
2. 54° 57' 02.5511"N, 007° 54' 26.8824"W  
3. 54° 38' 21.6898"N, 008° 06' 38.2572"W  
4. 54° 41' 51.0875"N, 008° 22' 46.3464"W  
5. 54° 53' 04.7329"N, 008° 15' 32.7108"W  
Arc anticlockwise 10nm radius EIDL ARP



AIRSPACE CHANGE PROPOSAL - WATERFORD CTR & SHANNON CTA



THIS CHART IS FOR INFORMATION PURPOSES ONLY, IT SHALL NOT BE USED FOR NAVIGATION.

**LEGEND**  
 PROPOSED SHANNON CONTROL AREA (CTA)  
 PROPOSED EIWF CONTROL ZONE (CTR)

**EIWF NORTHERN EXTENSION STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 32' 07.3502"N, 007° 03' 04.0368"W  
 2. 52° 27' 47.8332"N, 006° 44' 45.3727"W  
 3. 52° 37' 08.8905"N, 006° 39' 00.6909"W  
 4. 52° 41' 29.3059"N, 006° 57' 22.6682"W

**EIWF NORTH WESTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 32' 07.3502"N, 007° 03' 04.0368"W  
 2. 52° 35' 20.1334"N, 007° 16' 50.4101"W  
 3. 52° 16' 30.2801"N, 007° 28' 03.0967"W  
 4. 52° 14' 47.9331"N, 007° 20' 24.1466"W  
 Arc clockwise 10nm radius centre EIWF ARP  
 5. 52° 20' 47.8431"N, 007° 09' 53.3242"W

**EIWF SOUTH EASTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 07' 48.5386"N, 006° 49' 57.9378"W  
 2. 52° 06' 03.7675"N, 006° 42' 22.0809"W  
 3. 51° 47' 06.4908"N, 006° 53' 48.0623"W  
 4. 51° 50' 20.3609"N, 007° 07' 19.9752"W  
 5. 52° 01' 39.8017"N, 007° 00' 34.7869"W  
 Arc anticlockwise 10NM radius centre EIWF ARP

**EIWF CONTROL ZONE (CTR)**  
 CIRCLE OF A RADIUS OF 10NM CENTRED ON  
 EIWF ARP  
 (COORDINATES - LATITUDE/LONGITUDE) :  
 1. 52° 11' 13.9199"N, 007° 05' 13.0659"W

**EIWF NORTHERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 32' 07.3502"N, 007° 03' 04.0368"W  
 2. 52° 27' 47.8332"N, 006° 44' 45.3727"W  
 3. 52° 16' 38.6285"N, 006° 51' 33.0403"W  
 Arc Anticlockwise 10nm radius centre EIWF ARP  
 4. 52° 20' 47.8431"N, 007° 09' 53.3242"W

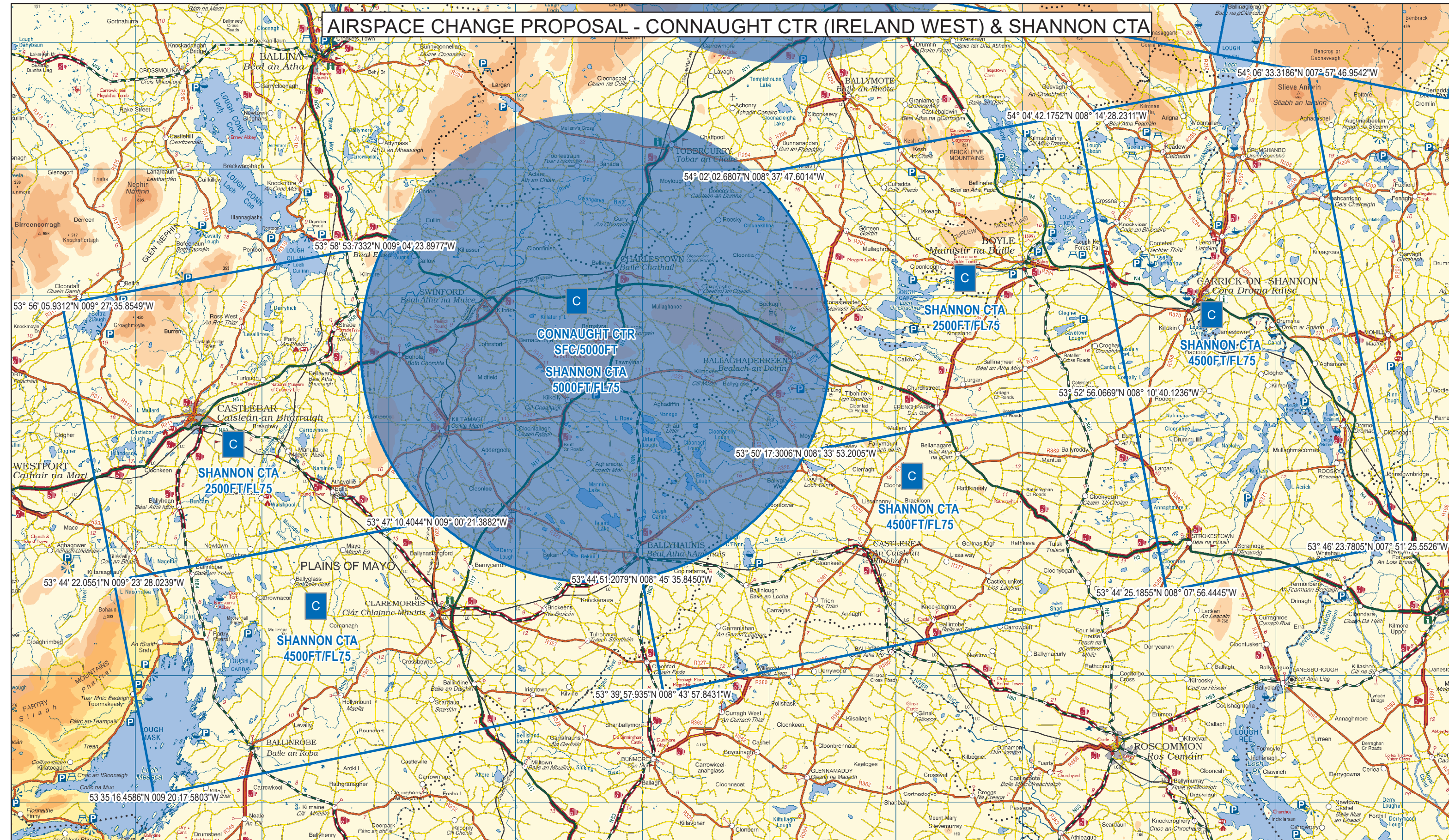
**EIWF NORTH EASTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 27' 47.8332"N, 006° 44' 45.3727"W  
 2. 52° 24' 31.3532"N, 006° 31' 03.7656"W  
 3. 52° 06' 03.7675"N, 006° 42' 22.0809"W  
 4. 52° 07' 48.5386"N, 006° 49' 57.9378"W  
 Arc Anticlockwise 10nm radius centre EIWF ARP  
 5. 52° 16' 38.6285"N, 006° 51' 33.0403"W

**EIWF SOUTHERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 05' 47.6275"N, 007° 18' 49.7785"W  
 2. 52° 01' 39.8017"N, 007° 00' 34.7869"W  
 3. 51° 50' 20.3609"N, 007° 07' 19.9752"W  
 4. 51° 54' 36.4381"N, 007° 25' 25.5549"W

**EIWF SOUTH WESTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 52° 14' 47.9331"N, 007° 20' 24.1466"W  
 2. 52° 16' 30.2801"N, 007° 28' 03.0967"W  
 3. 51° 57' 46.6718"N, 007° 39' 01.9962"W  
 4. 51° 54' 36.4381"N, 007° 25' 25.5549"W  
 Arc clockwise 10NM radius centre EIWF ARP



AIRSPACE CHANGE PROPOSAL - CONNAUGHT CTR (IRELAND WEST) & SHANNON CTA



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**LEGEND**  
 PROPOSED SHANNON CONTROL AREA (CTA)  
 PROPOSED EIKN CONTROL ZONE (CTR)

**EIKN CONTROL ZONE (CTR)**  
 CIRCLE OF A RADIUS OF 10NM CENTRED ON EIKN ARP  
 (COORDINATES - LATITUDE/LONGITUDE) :  
 1. 53° 54' 37.0688"N, 008° 49' 06.5676"W

**EIKN EASTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 54° 04' 42.1752"N, 008° 14' 28.2311"W  
 2. 53° 52' 56.0669"N, 008° 10' 40.1236"W  
 3. 53° 50' 17.3006"N, 008° 33' 53.2005"W  
 Arc anticlockwise 10nm radius EIKN ARP  
 4. 54° 02' 02.6807"N, 008° 37' 47.6014"W

**EIKN EASTERN EXTENSION STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 54° 04' 42.1752"N, 008° 14' 28.2311"W  
 2. 54° 06' 33.3186"N, 007° 57' 46.9542"W  
 3. 53° 46' 23.7805"N, 007° 51' 25.5526"W  
 4. 53° 44' 25.1855"N, 008° 07' 56.4445"W

**EIKN WESTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 53° 58' 53.7332"N, 009° 04' 23.8977"W  
 Arc anticlockwise 10nm radius EIKN ARP  
 2. 53° 47' 10.4044"N, 009° 00' 21.3882"W  
 3. 53° 44' 22.0551"N, 009° 23' 28.0239"W  
 4. 53° 56' 05.9312"N, 009° 27' 35.8549"W

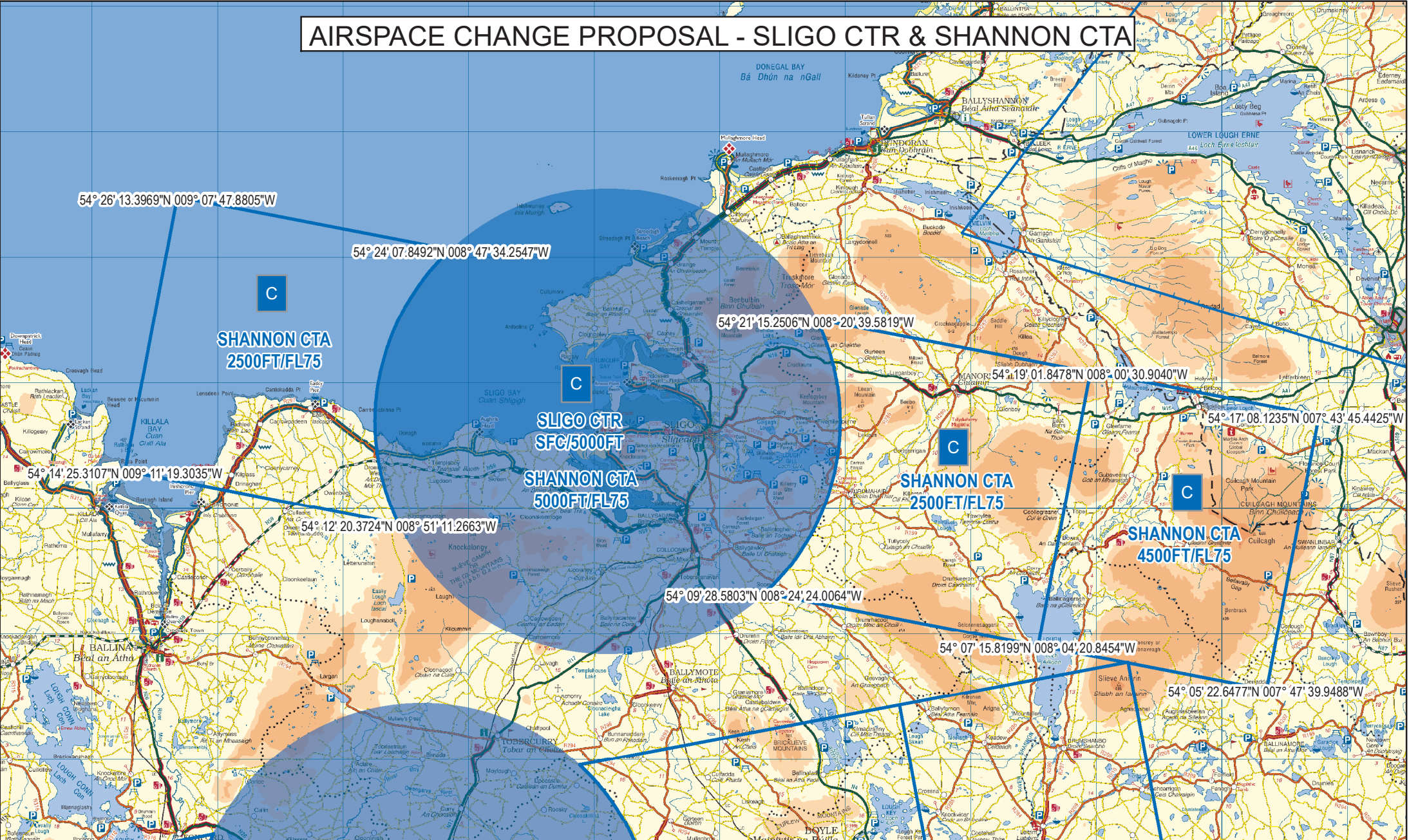
**EIKN SOUTH WESTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 53° 47' 10.4044"N, 009° 00' 21.3882"W  
 Arc anticlockwise 10nm radius EIKN ARP  
 2. 53° 44' 51.2079"N, 008° 45' 35.8450"W  
 3. 53° 39' 57.935"N, 008° 43' 57.8431"W  
 4. 53° 35' 16.4586"N, 009° 20' 17.5803"W  
 5. 53° 44' 22.0551"N, 009° 23' 28.0239"W

**EIKN SOUTH EASTERN STUB**  
 EST. COORDINATES (LATITUDE/LONGITUDE) :  
 1. 53° 52' 56.0669"N, 008° 10' 40.1236"W  
 2. 53° 44' 25.1855"N, 008° 07' 56.4445"W  
 3. 53° 39' 57.935"N, 008° 43' 57.8431"W  
 4. 53° 44' 51.2079"N, 008° 45' 35.8450"W  
 Arc anticlockwise 10nm radius EIKN ARP  
 5. 53° 50' 17.3006"N, 008° 33' 53.2005"W



APPENDIX E- Diagram showing Airspace Change - Shannon CTA - Sligo

AIRSPACE CHANGE PROPOSAL - SLIGO CTR & SHANNON CTA



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LEGEND	
	FIR BOUNDARY
	PROPOSED EISG CONTROL ZONE (CTR)
	PROPOSED SHANNON CONTROL AREA (CTA)

EISG CONTROL ZONE (CTR)
CIRCLE OF A RADIUS OF 10NM CENTRED ON EISG ARP
(COORDINATES - LATITUDE/LONGITUDE) :
1. 54° 16' 48.7683"N, 008° 35' 57.1479"W

EISG WESTERN STUB
EST. COORDINATES (LATITUDE/LONGITUDE) :
1. 54° 24' 07.8492"N, 008° 47' 34.2547"W
Arc anticlockwise 10NM radius EISG ARP
2. 54° 12' 20.3724"N, 008° 51' 11.2663"W
3. 54° 14' 25.3107"N, 009° 11' 19.3035"W
4. 54° 26' 13.3696"N, 009° 07' 47.8805"W

EISG EASTERN STUB
EST. COORDINATES (LATITUDE/LONGITUDE) :
1. 54° 19' 01.8478"N, 008° 00' 30.9040"W
2. 54° 07' 15.8199"N, 008° 04' 20.8454"W
3. 54° 09' 28.5803"N, 008° 24' 24.0064"W
Arc anticlockwise 10NM radius EISG ARP
4. 54° 21' 15.2506"N, 008° 20' 39.5819"W

EISG EASTERN EXTENSION STUB
EST. COORDINATES (LATITUDE/LONGITUDE) :
1. 54° 19' 01.8478"N, 008° 00' 30.9040"W
2. 54° 17' 08.1235"N, 007° 43' 45.4425"W
3. 54° 05' 22.6477"N, 007° 47' 39.9488"W
4. 54° 07' 15.8199"N, 008° 04' 20.8454"W