

- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - GOLDEN PLOVER
    - GREAT BLACK-BACKED GULL
    - GREAT CRESTED GREBE
  - FLOCK COUNT AREAS
    - GREY PLOVER
  - FLIGHT LINES (HEIGHT)
    - GREAT BLACK-BACKED GULL: 0-10M
    - GREAT BLACK-BACKED GULL: >10M

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**NOTES**  
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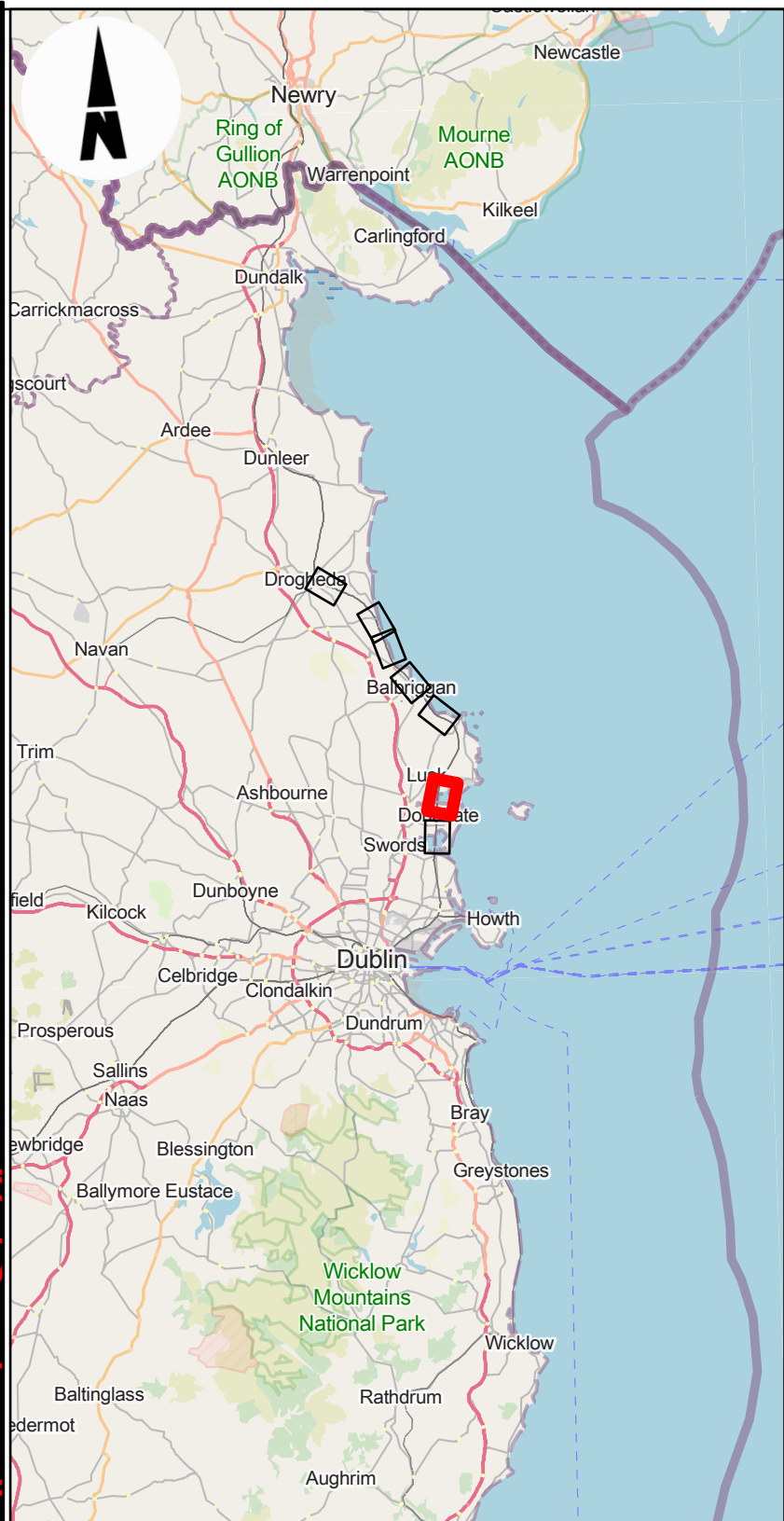
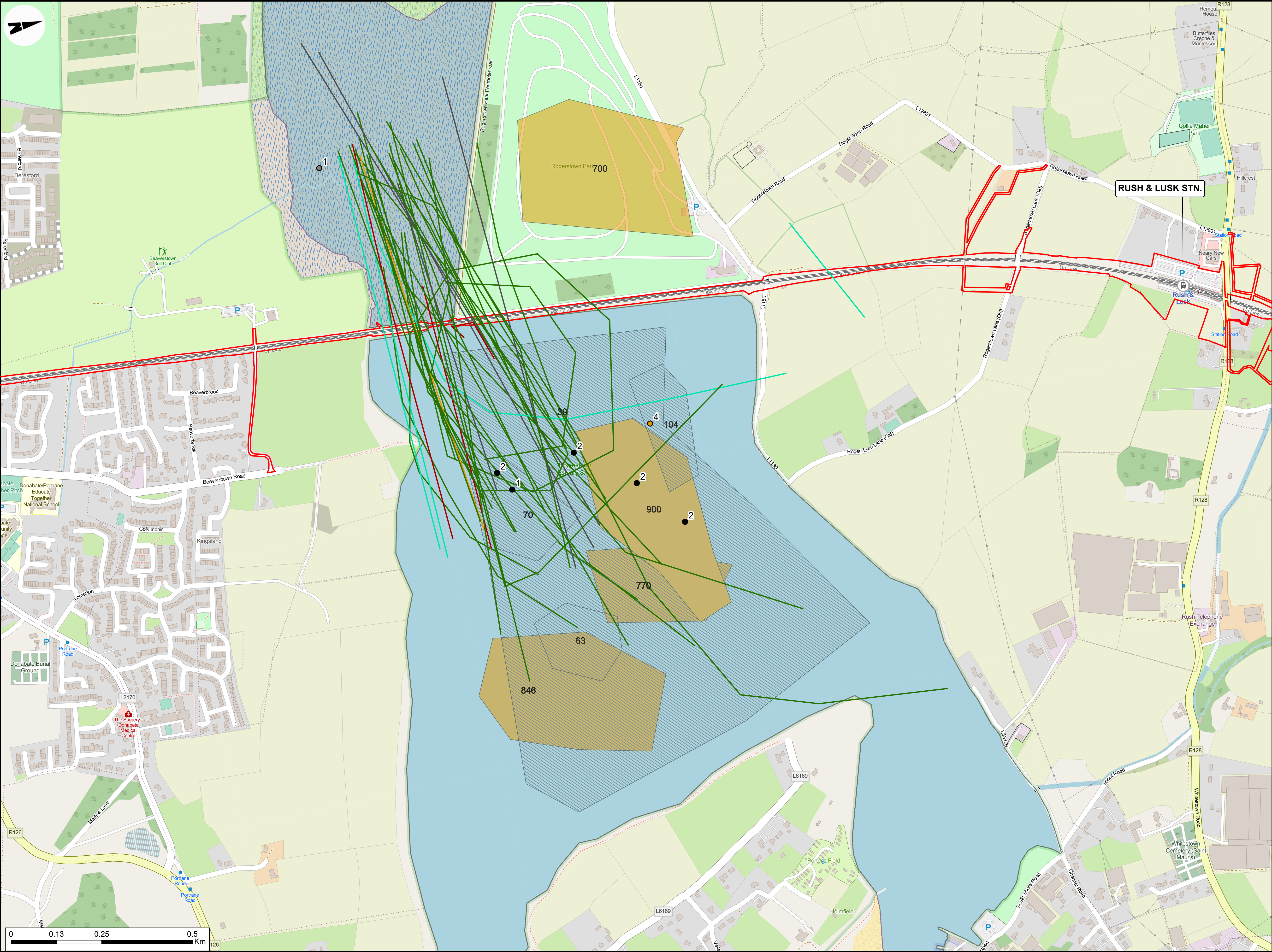


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client <b>Iarnród Éireann Irish Rail</b>		Engineering Designer <b>ARUP</b>		
Date 07/09/2023	Scale 1:5000 @ A1 1:10000 @ A3	Drawn DM	Checked SQ	Approved COD
Project Code D+WP56	Originator Code ARP	QMS Code 279933-00		

Project Title <b>DART+ COASTAL NORTH</b>				
Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1</b>				
Drawing File Name D+WP56-ARP-ZZ-LL-DR-EVBD-200123	Sheet Number 43 of 85	Status S4	Rev P02	







- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - GOLDEN PLOVER
  - GREAT BLACK-BACKED GULL
  - GREY PLOVER
  - FLOCK COUNT AREAS**
  - GOLDEN PLOVER
  - GREY PLOVER
  - FLIGHT LINES (HEIGHT)**
  - GOLDEN PLOVER: 0-10M
  - GOLDEN PLOVER: >10M
  - GREAT BLACK-BACKED GULL: 0-10M
  - GREAT BLACK-BACKED GULL: >10M
  - GREY PLOVER: >10M

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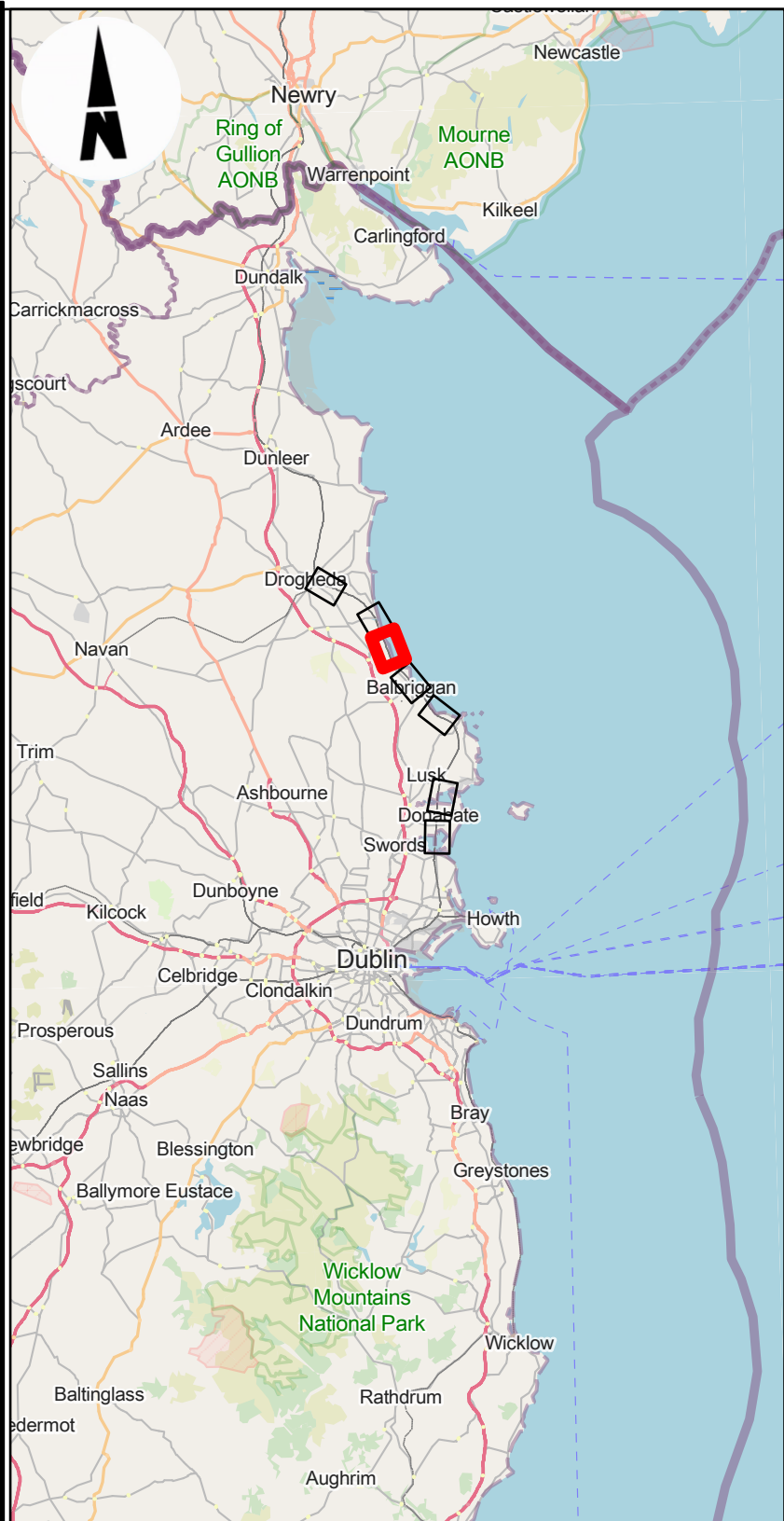
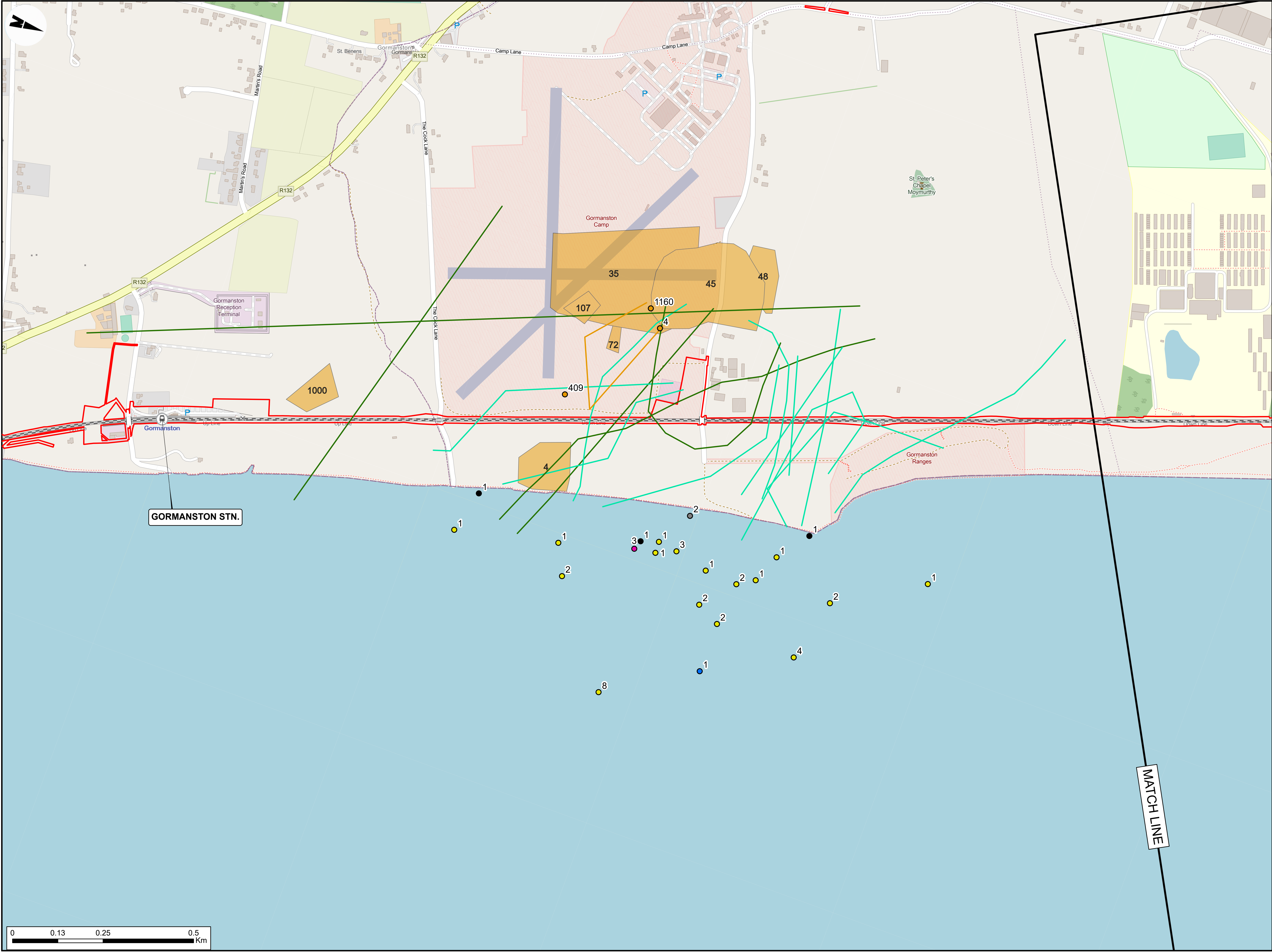


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Client		Engineering Designer							
 <b>Iarnród Éireann</b> Irish Rail									
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3	Drawn	DM	Checked	SQ	Approved	COD
Project Code	D+WP56	Originator Code	ARP	QMS Code	279933-00				

Project Title					DART+ COASTAL NORTH				
Drawing Title					BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 2				
Drawing File Name	D+WP56-ARP-ZZ-NL-DR-EVBD-200124	Sheet Number	44 of 85	Status	S4	Rev	P02	© Arup	





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - GOLDEN PLOVER
  - GREAT BLACK-BACKED GULL
  - GREAT CRESTED GREBE
  - GREAT NORTHERN DIVER
  - GREY PLOVER
  - GUILLEMOT
  - FLOCK COUNT AREAS**
  - GOLDEN PLOVER
  - FLIGHT LINES (HEIGHT)**
  - GOLDEN PLOVER: 0-10M
  - GOLDEN PLOVER: >10M
  - GREAT BLACK-BACKED GULL: >10M

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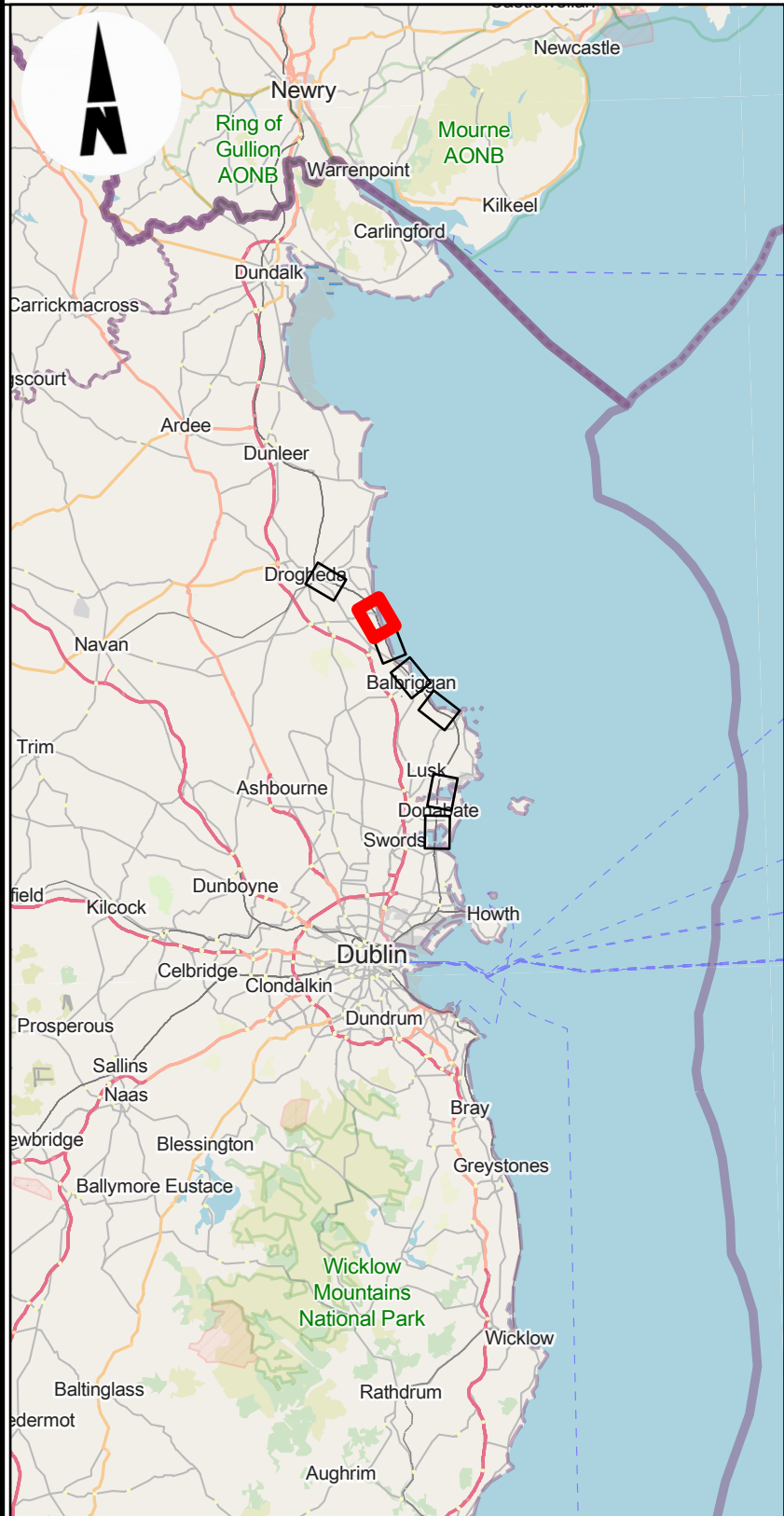
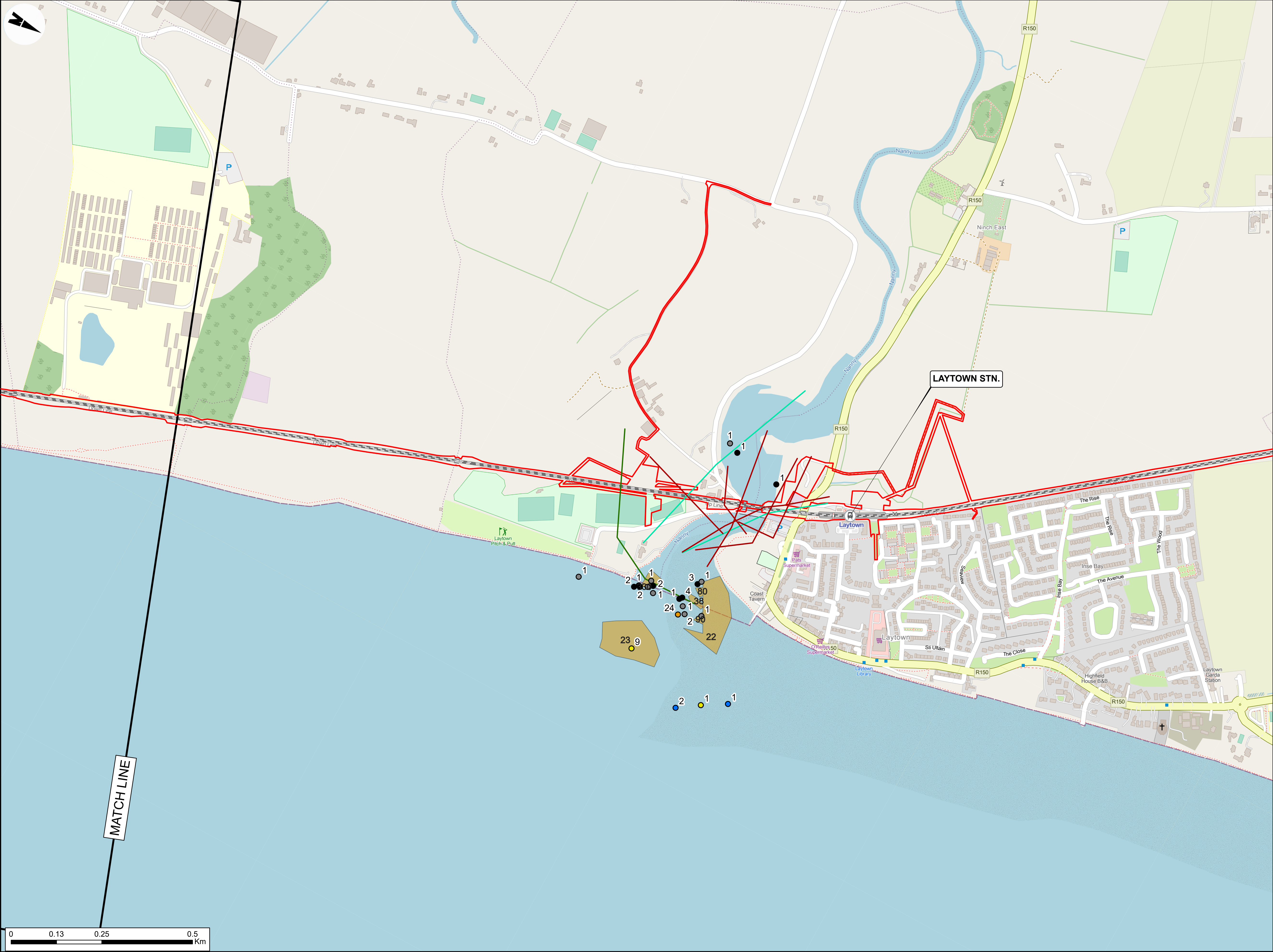
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07/09/2023	1:5000 @ A1 1:10000 @ A3	DM	SQ	COD

Project Code	Originator Code	QMS Code
D+WP56	ARP	279933-00

Project Title	Drawing Title	Drawing File Name	Sheet Number	Status	Rev
DART+ COASTAL NORTH	BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5	D+WP56-ARP-ZZ-LL-DR-EVBD-200125	45 of 85	S4	P02







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  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - GOLDEN PLOVER
  - GREAT BLACK-BACKED GULL
  - GREAT CRESTED GREBE
  - GREAT NORTHERN DIVER
  - GREY PLOVER
  - FLOCK COUNT AREAS**
  - GOLDEN PLOVER
  - FLIGHT LINES (HEIGHT)**
  - GOLDEN PLOVER: >10M
  - GREAT BLACK-BACKED GULL: 0-10M
  - GREAT BLACK-BACKED GULL: >10M

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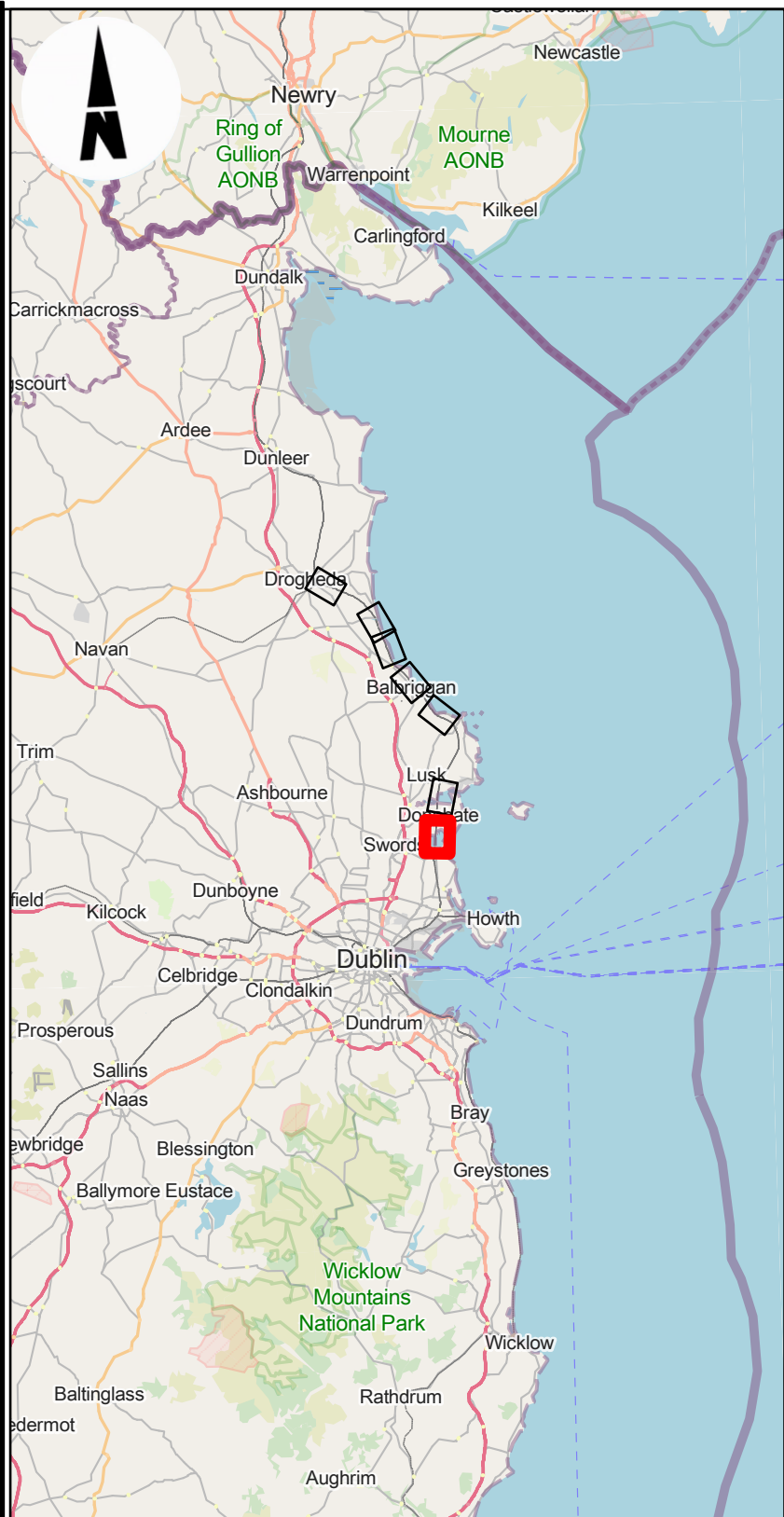
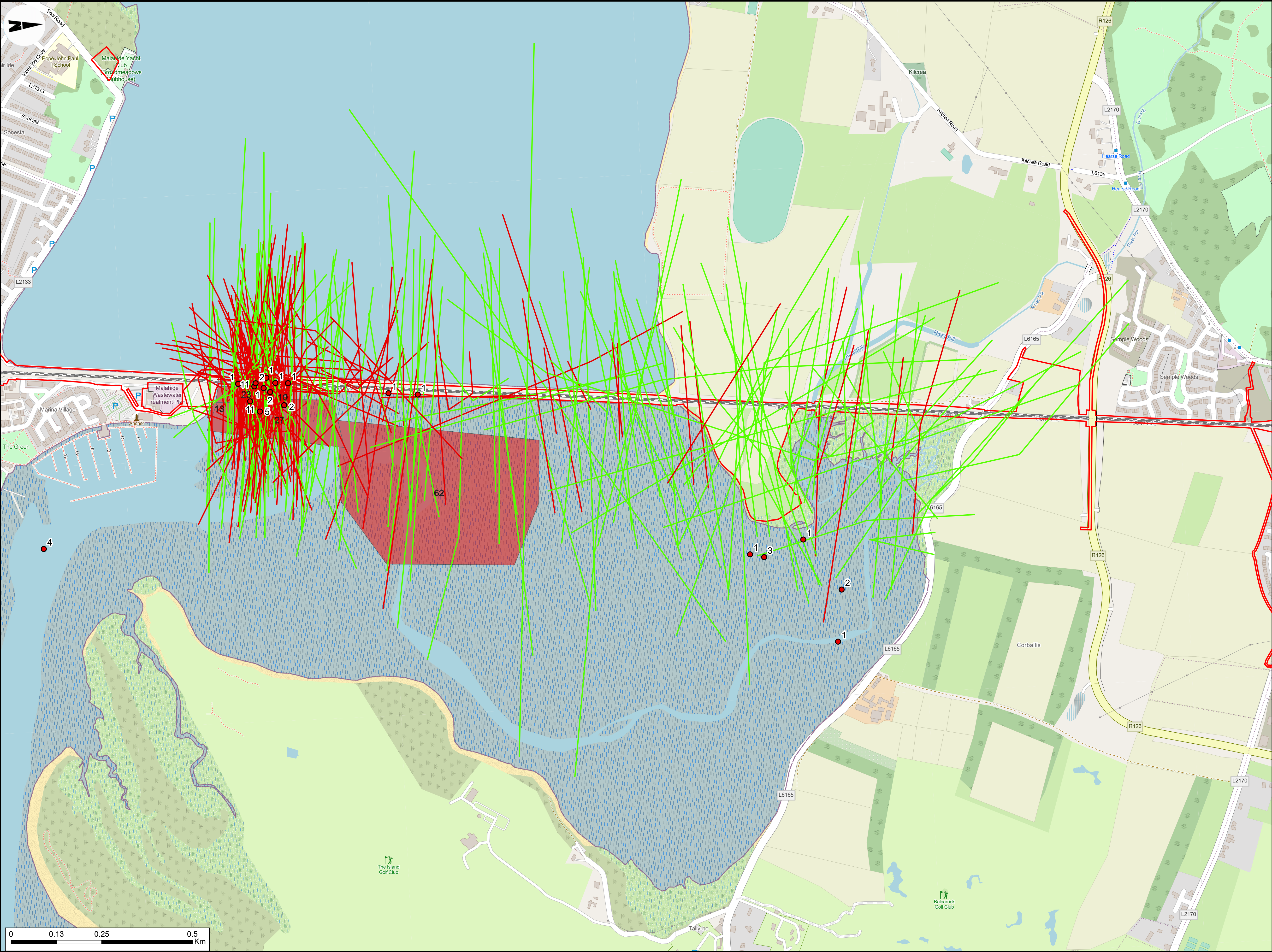
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Client 			Engineering Designer 			Project Title DART+ COASTAL NORTH											
Date 07/09/2023						Scale 1:5000 @ A1 1:10000 @ A3			Drawing Title BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6								
Project Code D+WP56			Originator Code ARP			QMS Code 279933-00			Drawing File Name D+WP56-ARP-ZZ-LL-DR-EVBD-200126			Sheet Number 46 of 85		Status S4		Rev P02	





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - HERRING GULL
  - FLOCK COUNT AREAS
    - HERRING GULL
  - FLIGHT LINES (HEIGHT)
    - HERRING GULL: 0-10M
    - HERRING GULL: >10M

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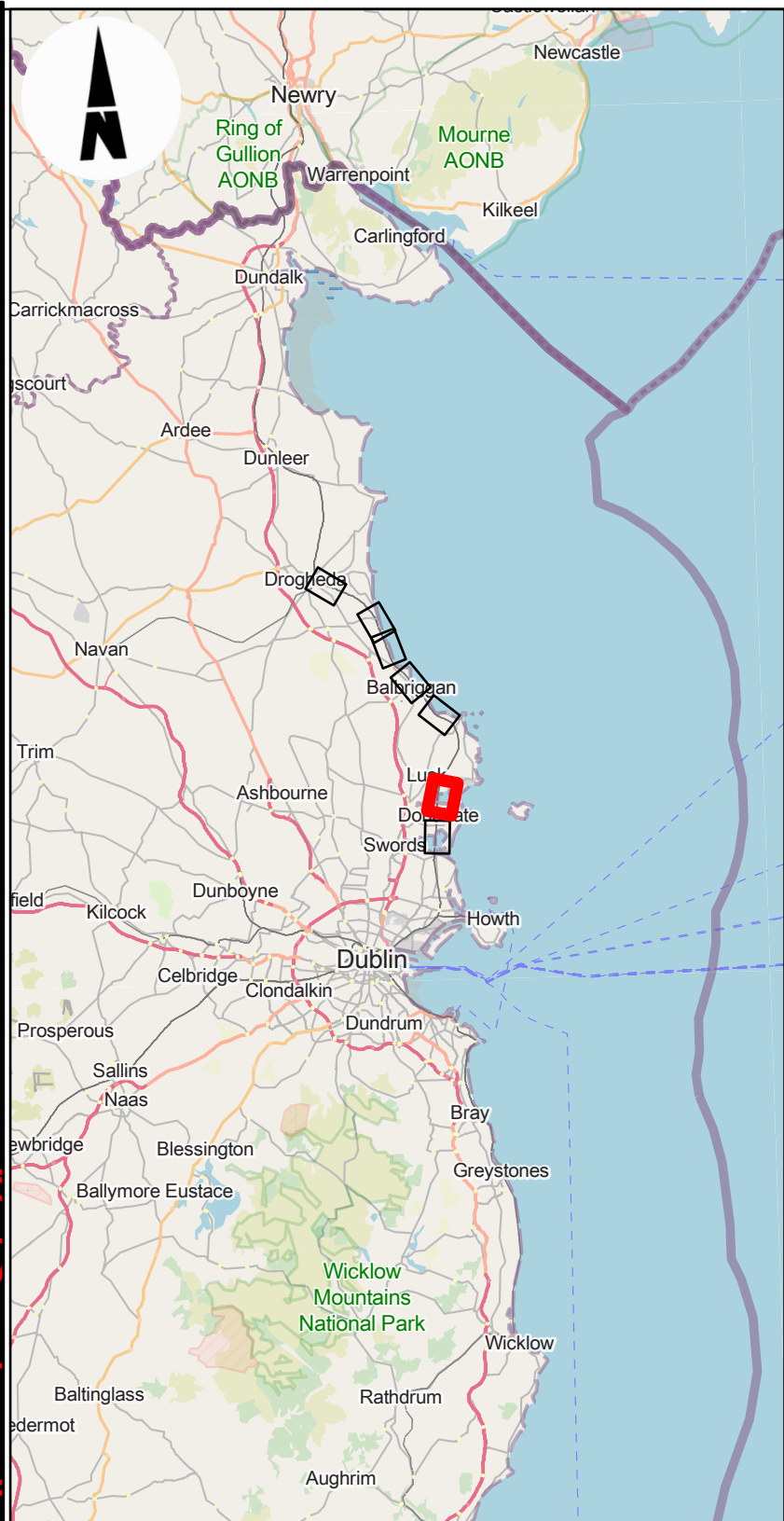
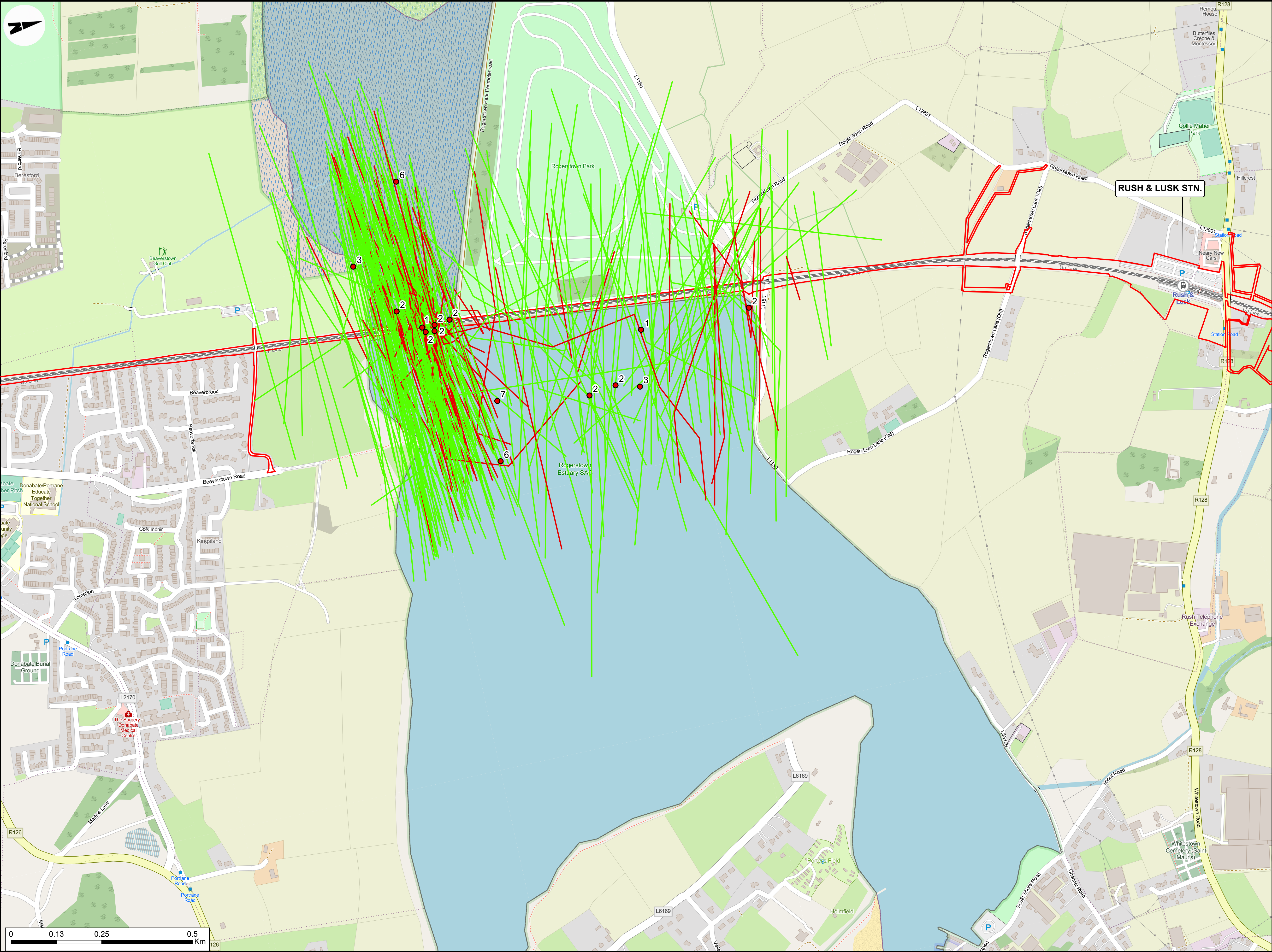
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P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer			Project Title			
Iarnród Éireann Irish Rail		ARUP			DART+ COASTAL NORTH			
Date		Scale		Drawn		Drawing Title		
07/09/2023		1:5000 @ A1 1:10000 @ A3		DM		BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1		
Project Code		Originator Code		QMS Code		Drawing File Name		Rev
D+WP56		ARP		279933-00		D+WP56-ARP-ZZ-LL-DR-EVBD-200127		P02
						Sheet Number 47 of 85		Status S4





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - HERRING GULL
  - FLIGHT LINES (HEIGHT)**
  - HERRING GULL: 0-10M
  - HERRING GULL: >10M

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**DART+ Coastal North**

**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

**Tionscadal Éireann**  
Project Ireland  
**2040**

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P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

**Client**  
 **Iarnród Éireann**  
Irish Rail

**Engineering Designer**  
 **ARUP**

Date	Scale	Drawn	Checked	Approved
07/09/2023	1:5000 @ A1 1:10000 @ A3	DM	SQ	COD

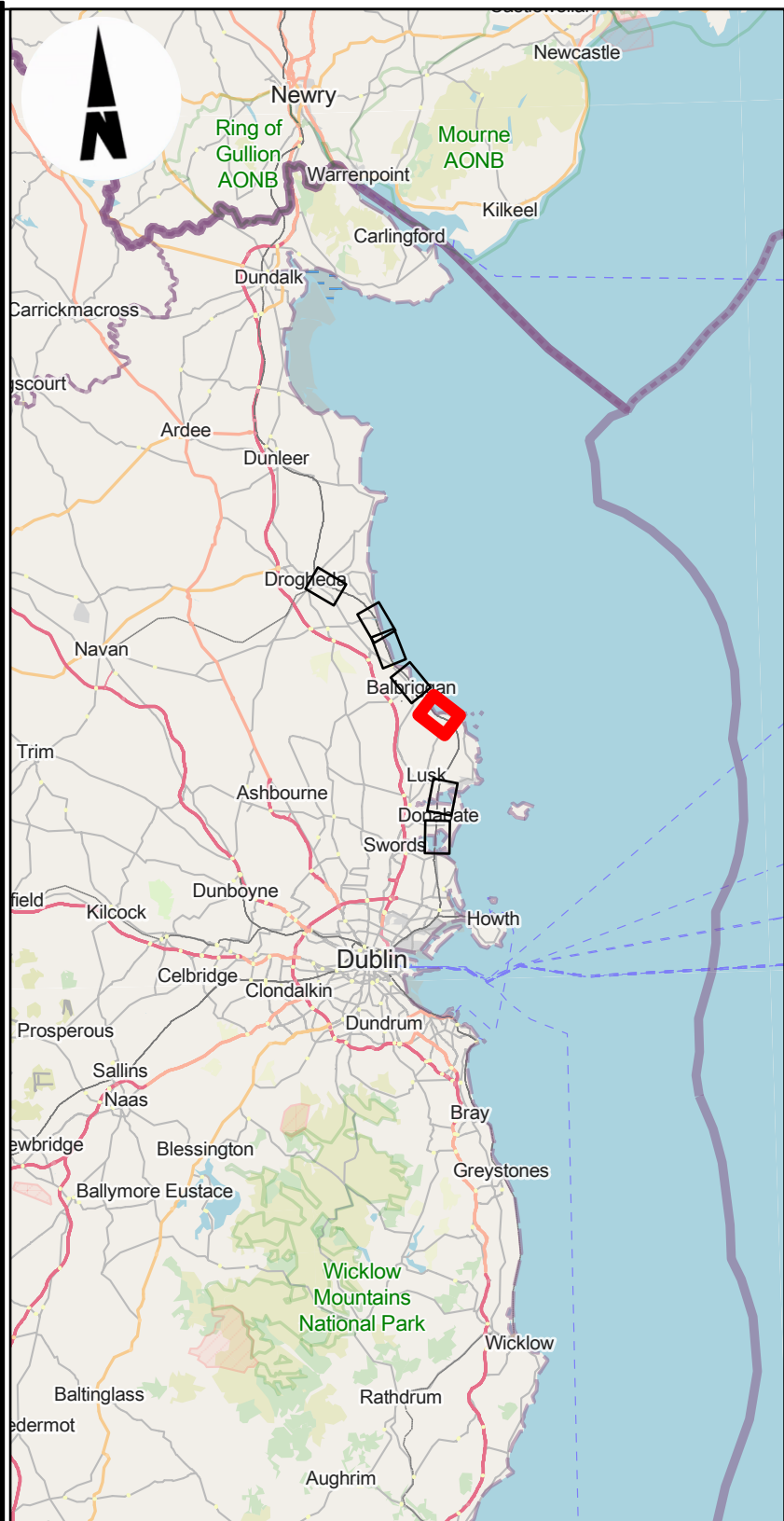
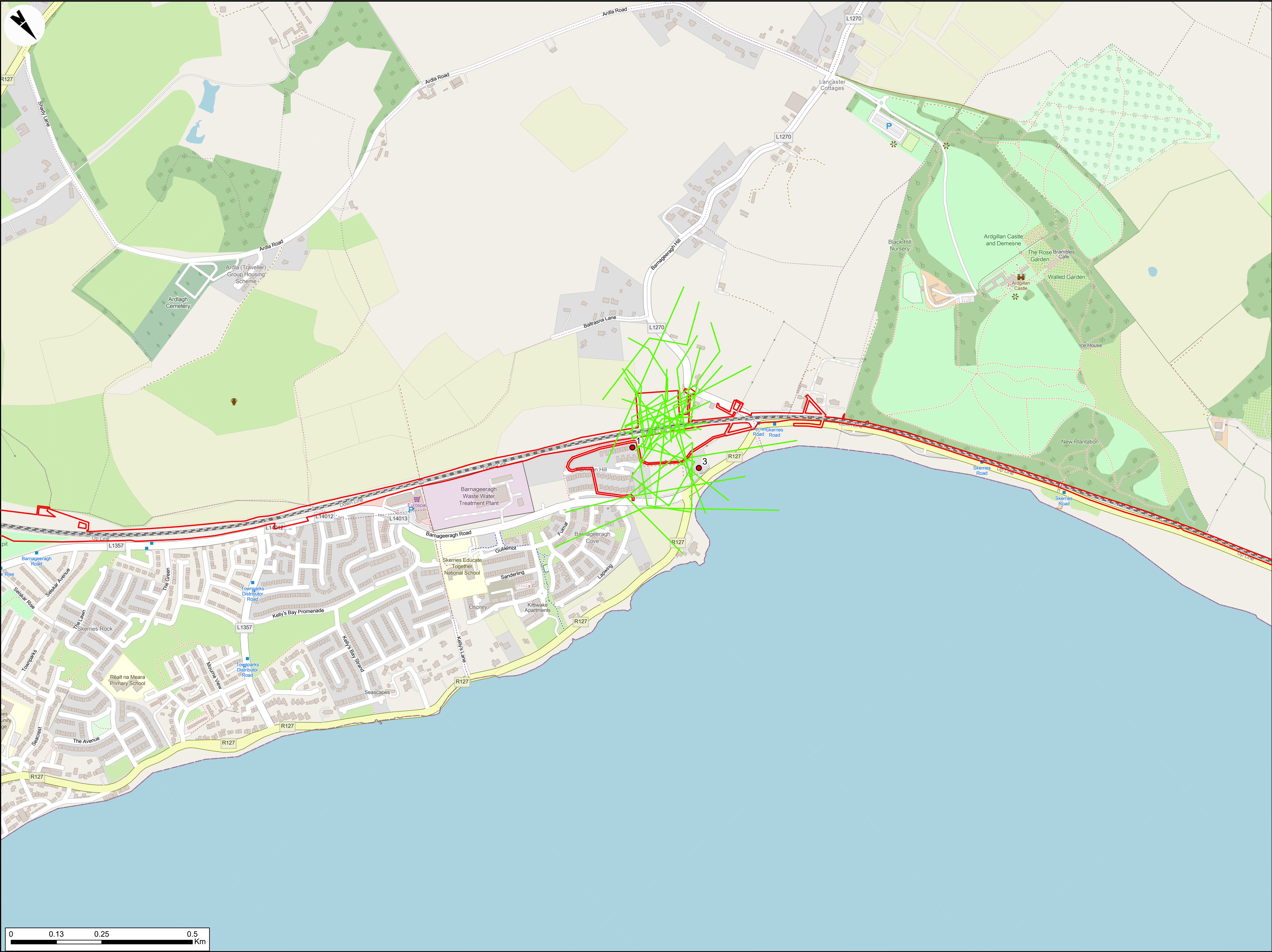
**Project Code** D+WP56 **Originator Code** ARP **QMS Code** 279933-00

**Project Title**  
**DART+ COASTAL NORTH**

**Drawing Title**  
**BIODIVERSITY**  
**FIGURE 6: WINTERING BIRD SURVEY**  
**SURVEY AREA 2**

Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200128	48 of 85	S4	P02





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
  - HERRING GULL
  - FLIGHT LINES (HEIGHT)
  - HERRING GULL: >10M

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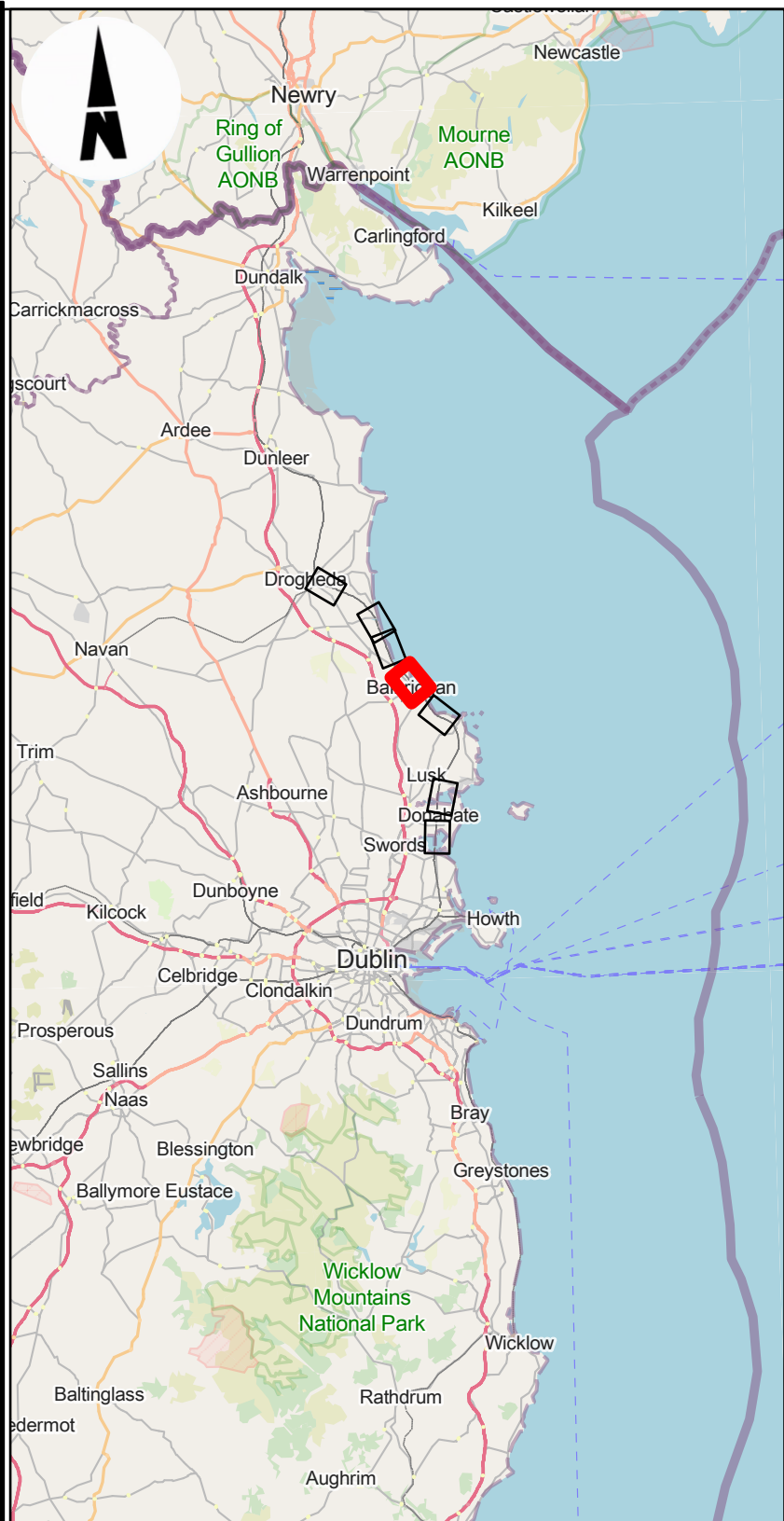
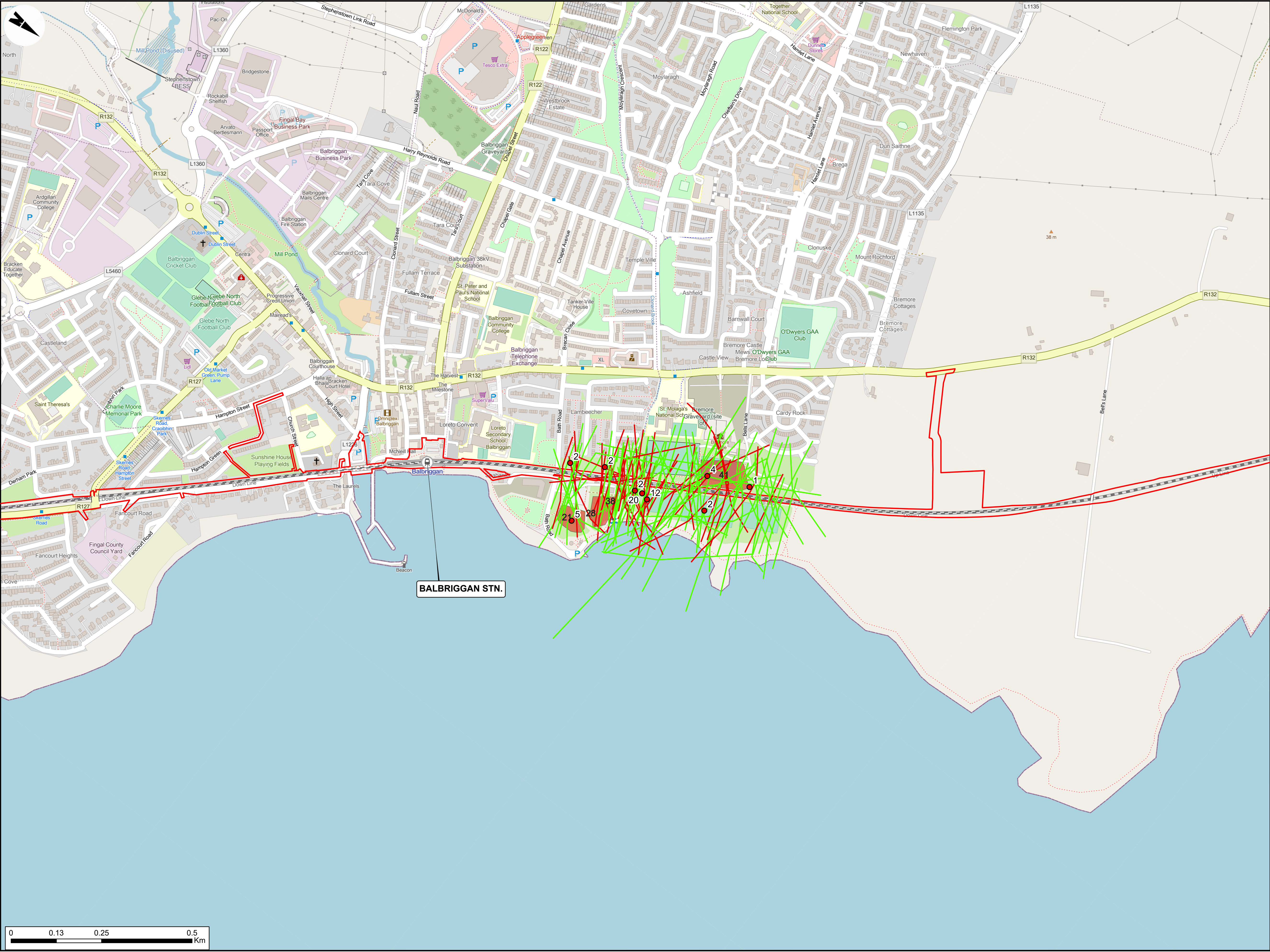
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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer			Project Title											
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3	Drawn	DM	Checked	SQ	Approved	COD							
Project Code	D+WP56	Originator Code	ARP	QMS Code		279933-00			Drawing File Name	D+WP56-ARP-ZZ-NL-DR-EVBD-200129	Sheet Number	49 of 85	Status	S4	Rev	P02





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  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - HERRING GULL
  - FLOCK COUNT AREAS**
  - HERRING GULL
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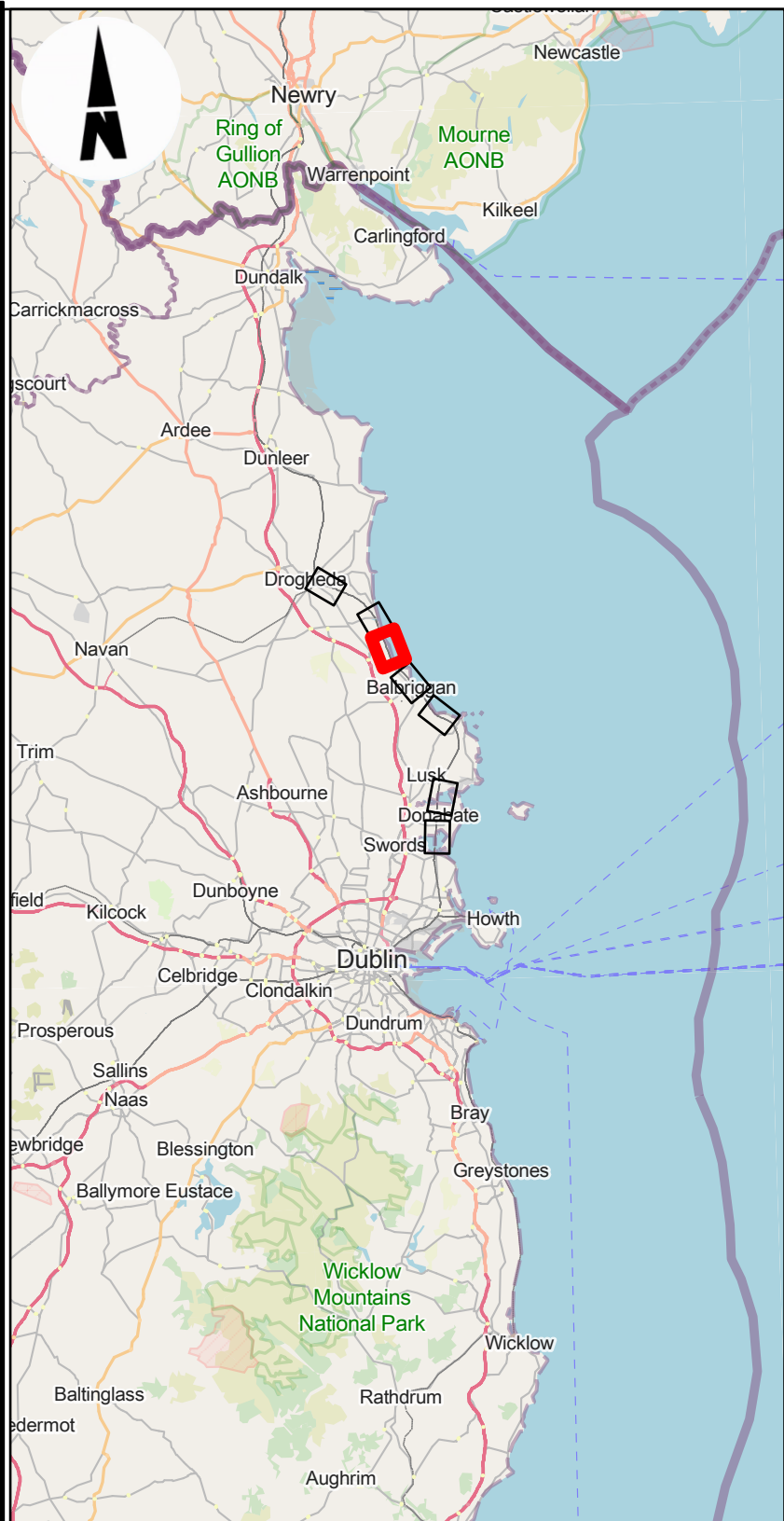
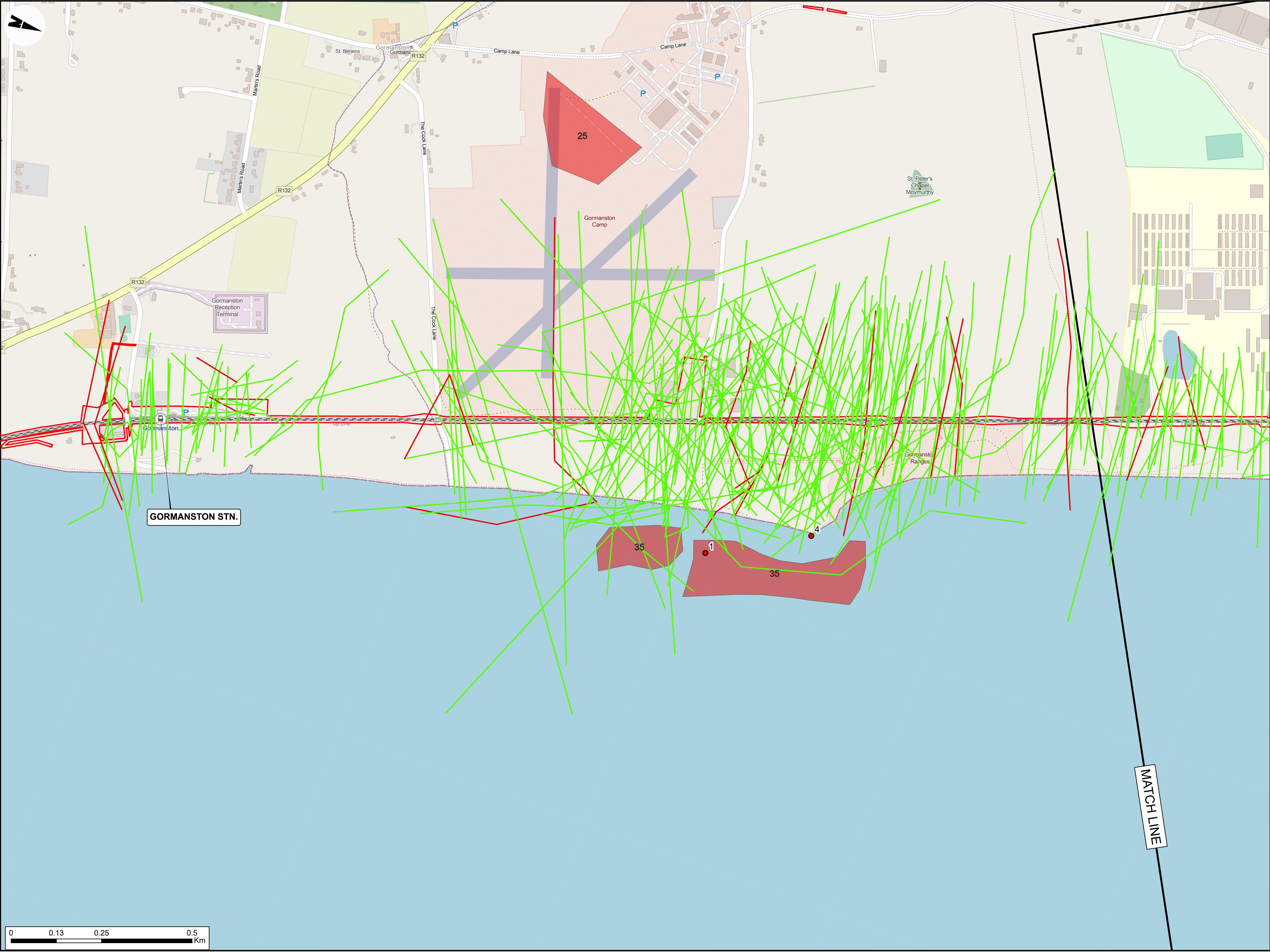
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National Transport Authority

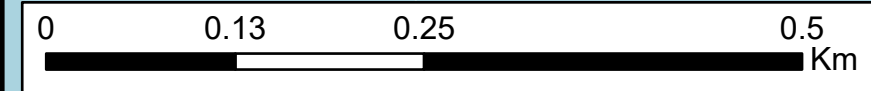
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Client		Engineering Designer			Project Title	
Date: 07/09/2023		Scale: 1:5000 @ A1 1:10000 @ A3			DART+ COASTAL NORTH	
Project Code: D+WP56		Originator Code: ARP			Drawing File Name: D+WP56-ARP-ZZ-LL-DR-EVBD-200130	
QMS Code: 279933-00		Drawn: DM, Checked: SQ, Approved: COD			Sheet Number: 50 of 85	
Status: S4		Rev: P02				





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  - DEVELOPMENT BOUNDARY
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  - HERRING GULL
  - FLOCK COUNT AREAS**
  - HERRING GULL
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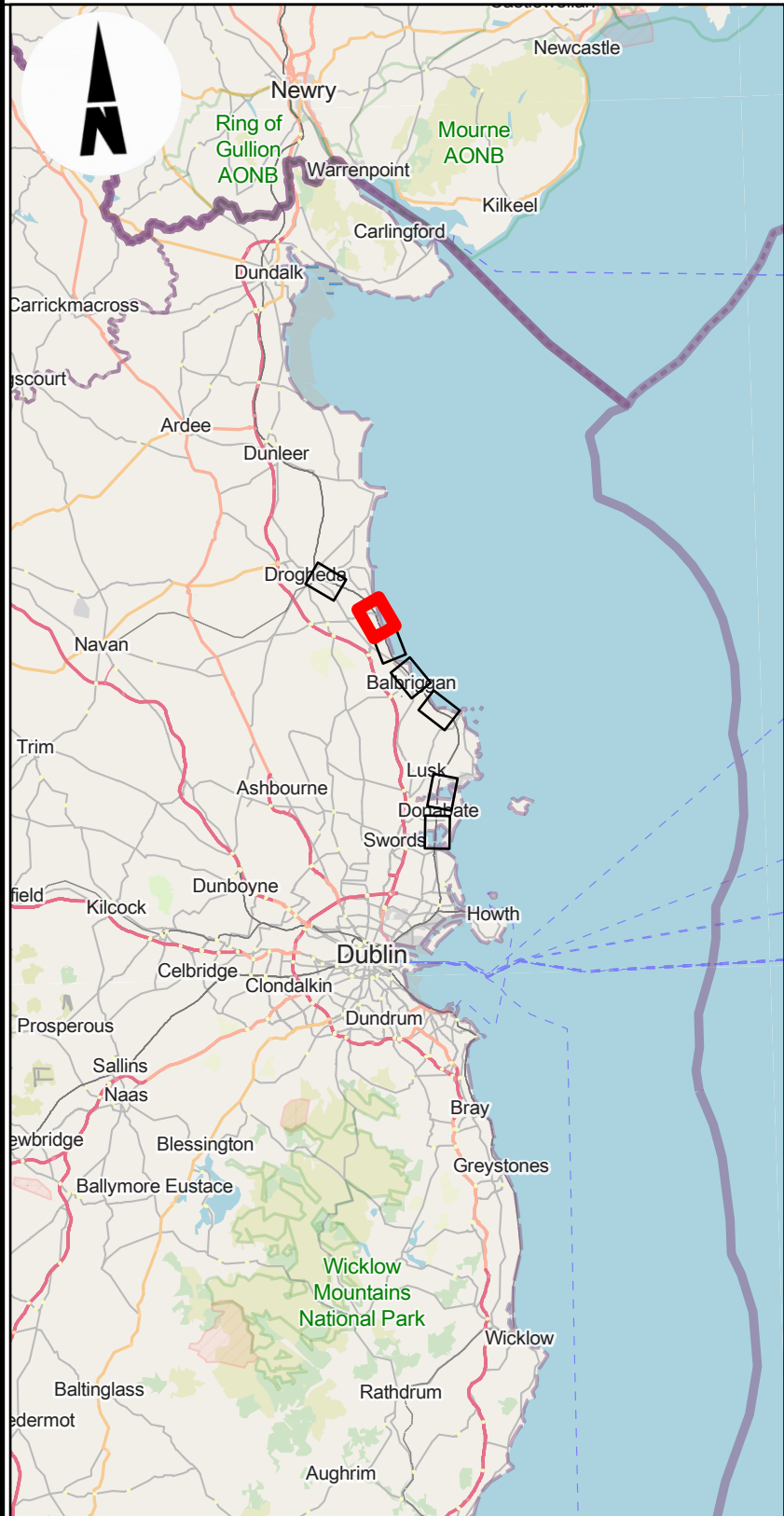
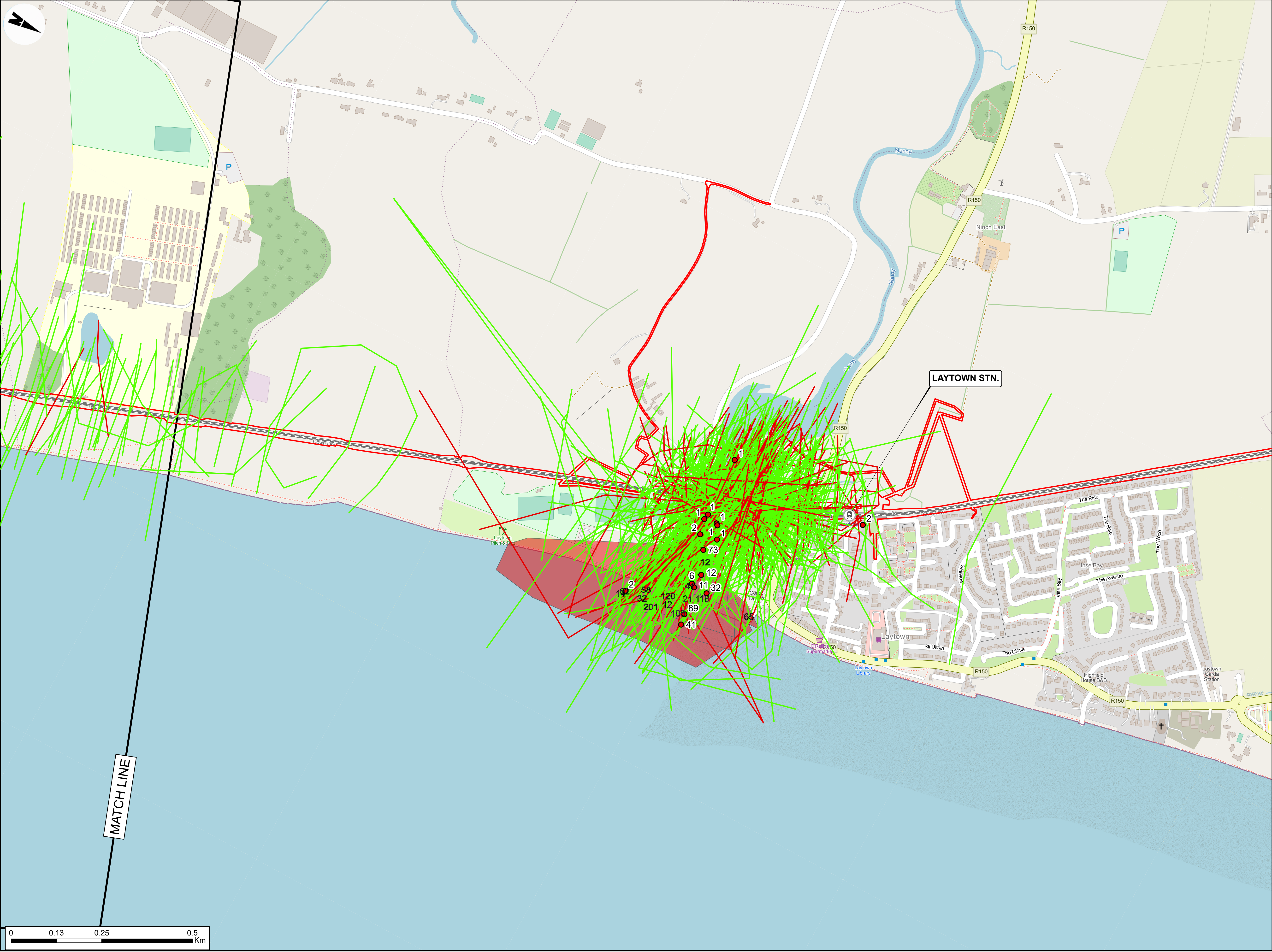
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Client 		Engineering Designer 			Project Title <b>DART+ COASTAL NORTH</b>			
Date 07/09/2023		Scale 1:5000 @ A1 1:10000 @ A3			Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5</b>			
Project Code D+WP56		Originator Code ARP			Drawing File Name D+WP56-ARP-ZZ-NL-DR-EVBD-200131			
					Sheet Number 51 of 85			
					Status S4			
					Rev P02			





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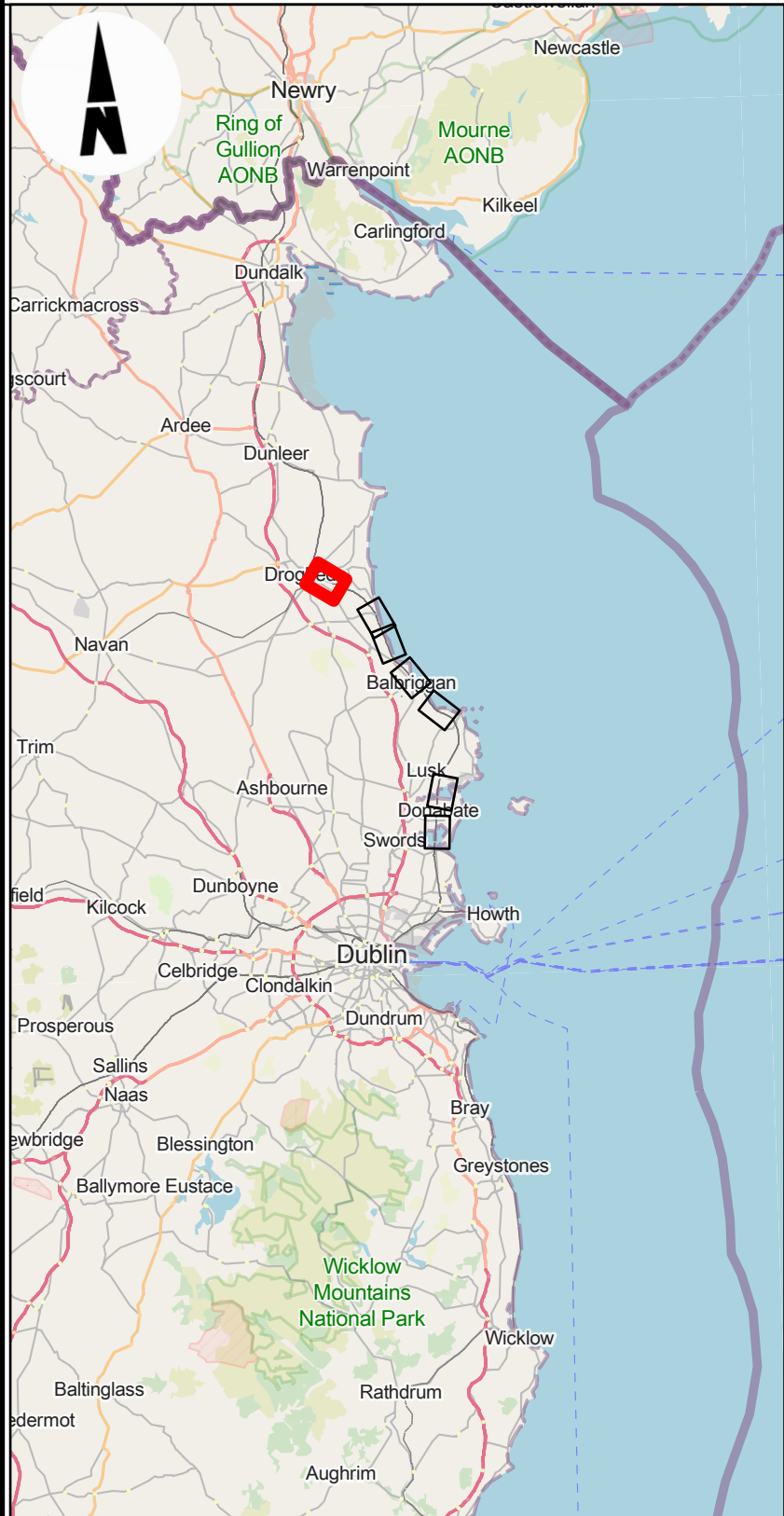
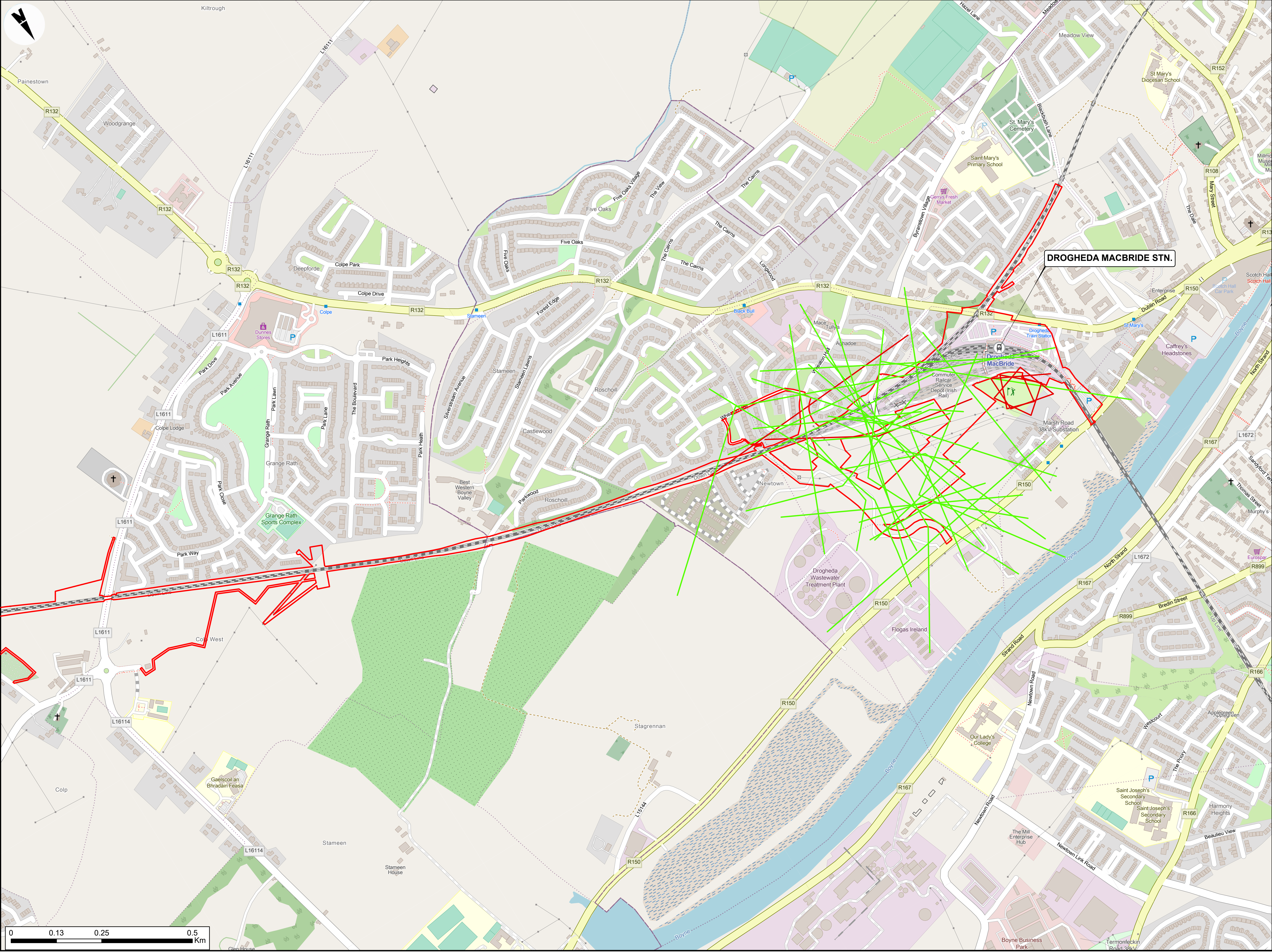


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Project Title <b>DART+ COASTAL NORTH</b>				
Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6</b>				
Drawing File Name D+WP56-ARP-ZL-NN-DR-EVBD-200132	Sheet Number 52 of 85	Status S4	Rev P02	





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  - DEVELOPMENT BOUNDARY
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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Date: 07/09/2023

Scale: 1:5000 @ A1  
1:10000 @ A3

Project Code: D+WP56

Originator Code: ARP

Engineering Designer

Drawn: DM

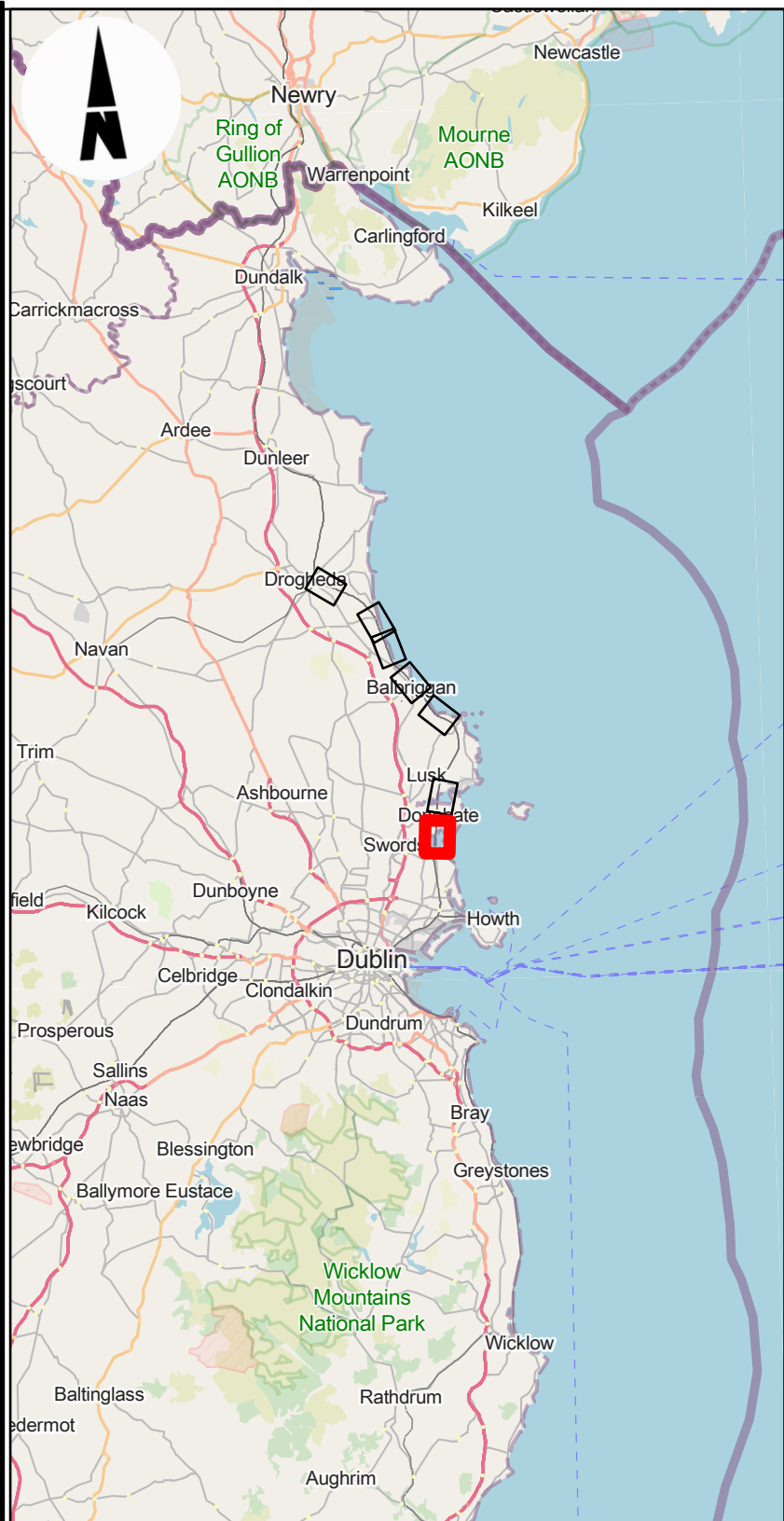
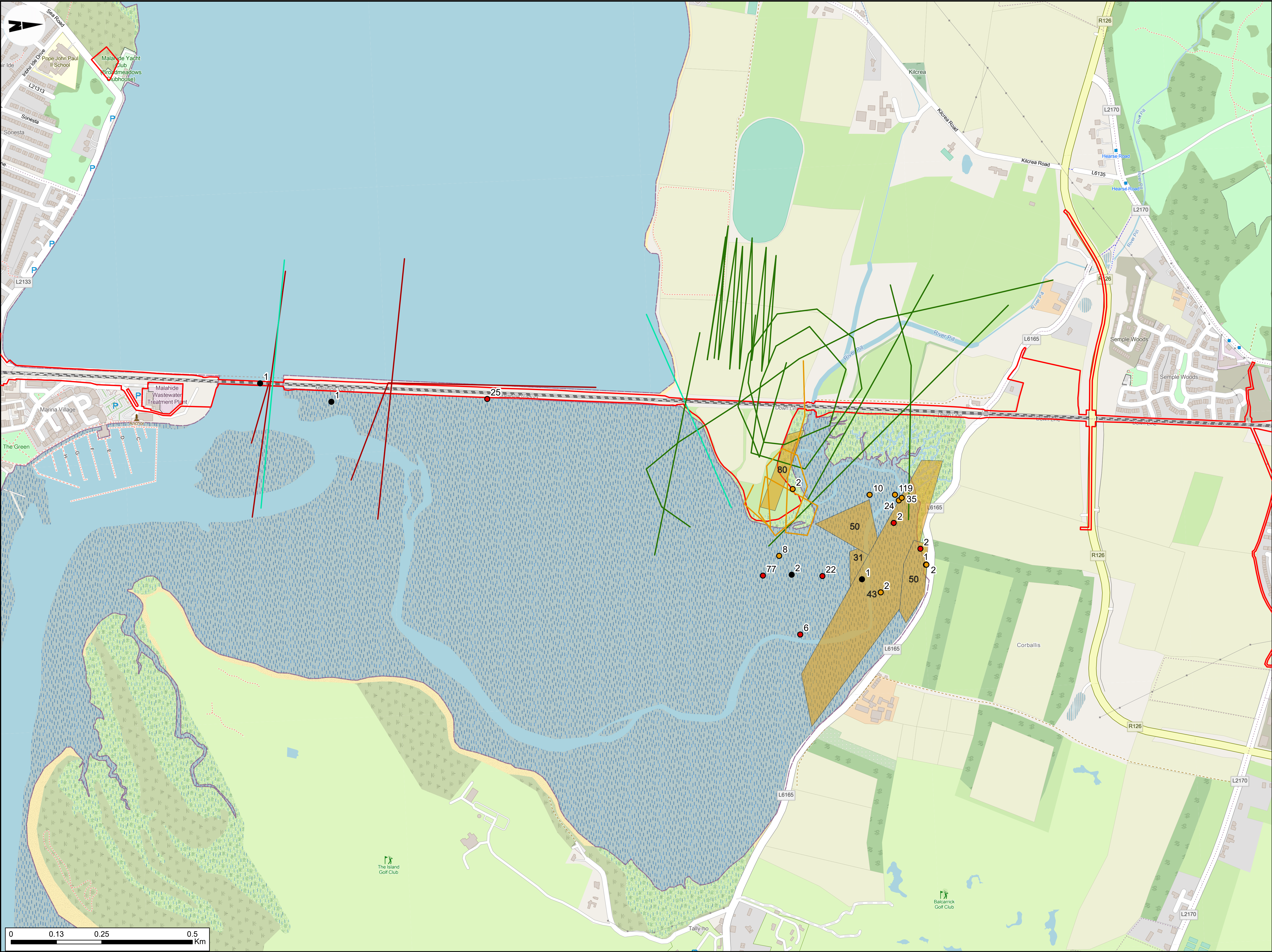
Checked: SQ

Approved: COD

QMS Code: 279933-00

Project Title				
DART+ COASTAL NORTH				
Drawing Title				
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 7				
Drawing File Name		Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200133		53 of 85	S4	P02





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - KNOT
    - LAPWING
    - LESSER BLACK-BACKED GULL
  - FLOCK COUNT AREAS
    - LAPWING
  - FLIGHT LINES (HEIGHT)
    - LAPWING: 0-10M
    - LAPWING: >10M
    - LESSER BLACK-BACKED GULL: 0-10M
    - LESSER BLACK-BACKED GULL: >10M

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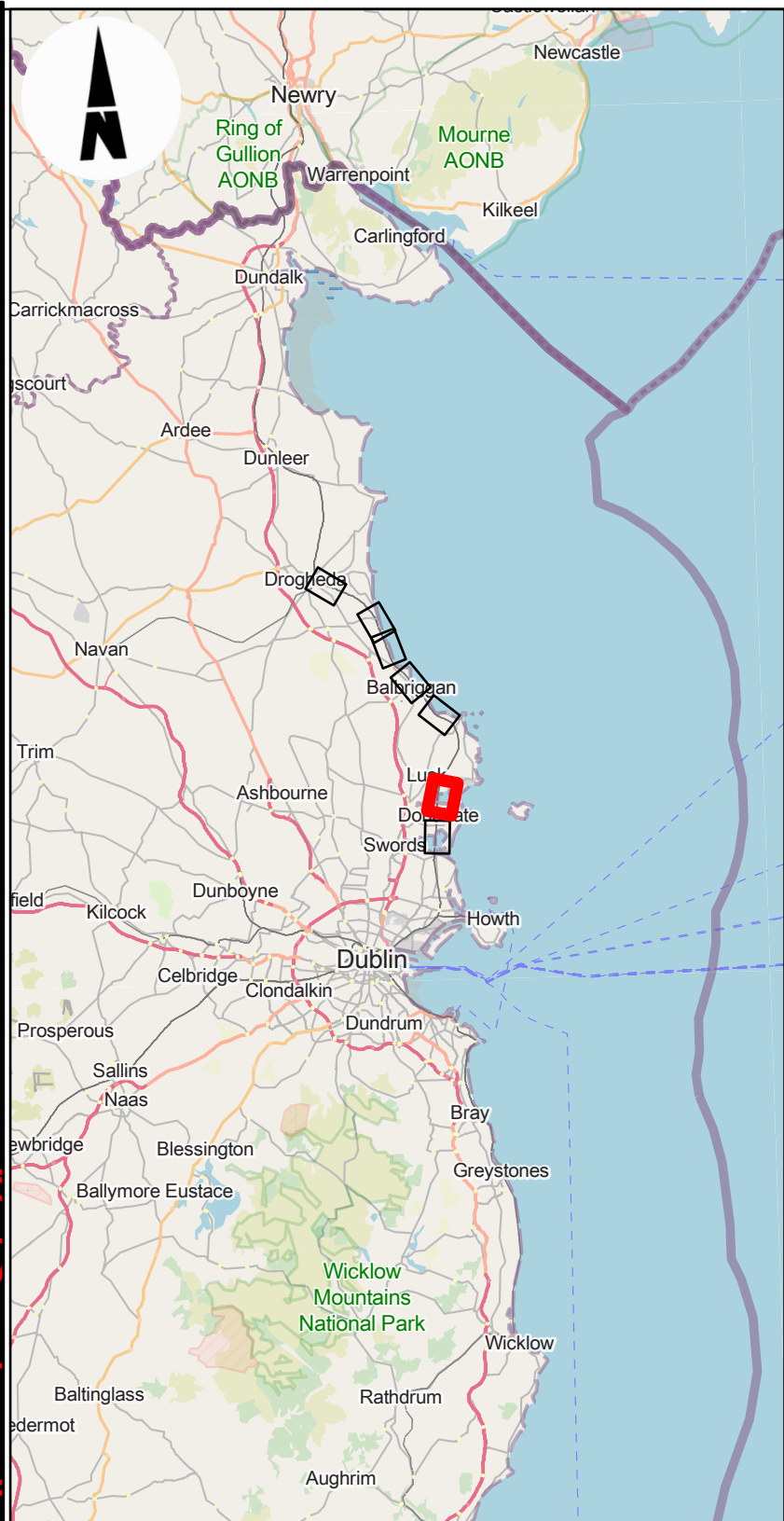
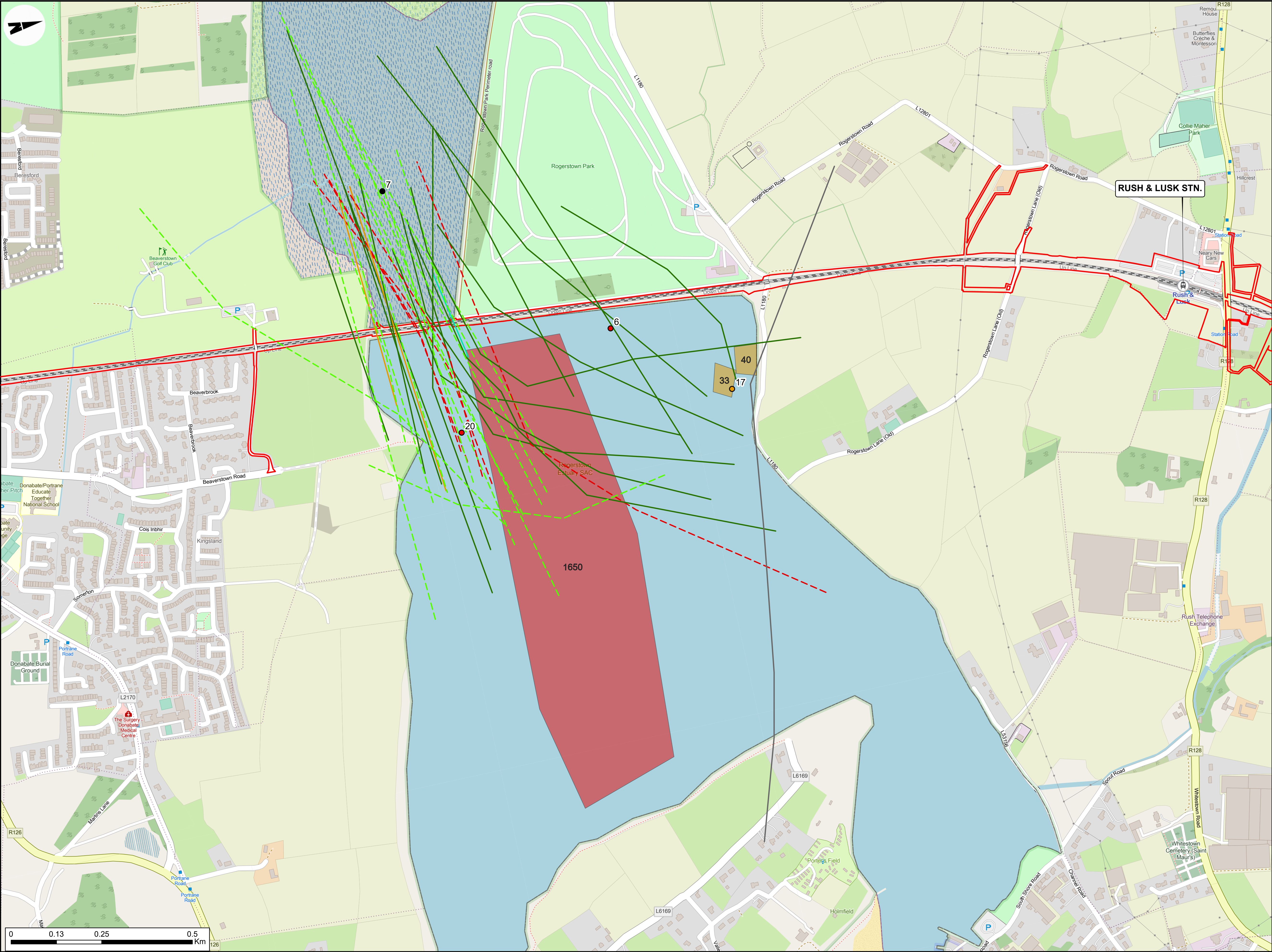


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ARUP	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
		Drawn	DM
		Checked	SQ
		Approved	COD
		QMS Code	279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1			
Drawing File Name		Sheet Number	Status
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		Rev	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - KNOT
  - LAPWING
  - LESSER BLACK-BACKED GULL
  - FLOCK COUNT AREAS**
  - KNOT
  - LAPWING
  - FLIGHT LINES (HEIGHT)**
  - KNOT: 0-10M
  - KNOT: >10M
  - LAPWING: 0-10M
  - LAPWING: >10M
  - LESSER BLACK-BACKED GULL: >10M
  - LITTLE GULL: >10M

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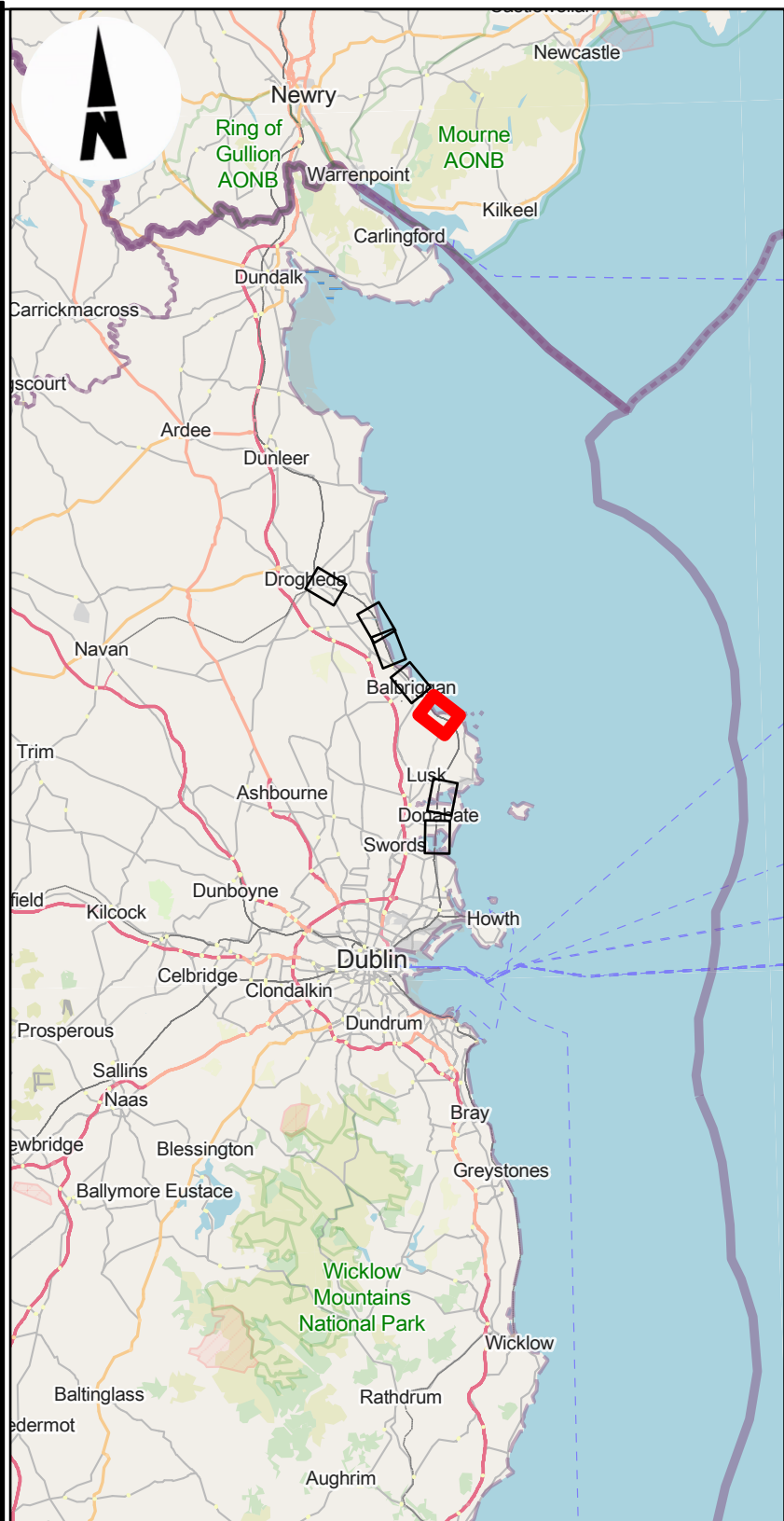
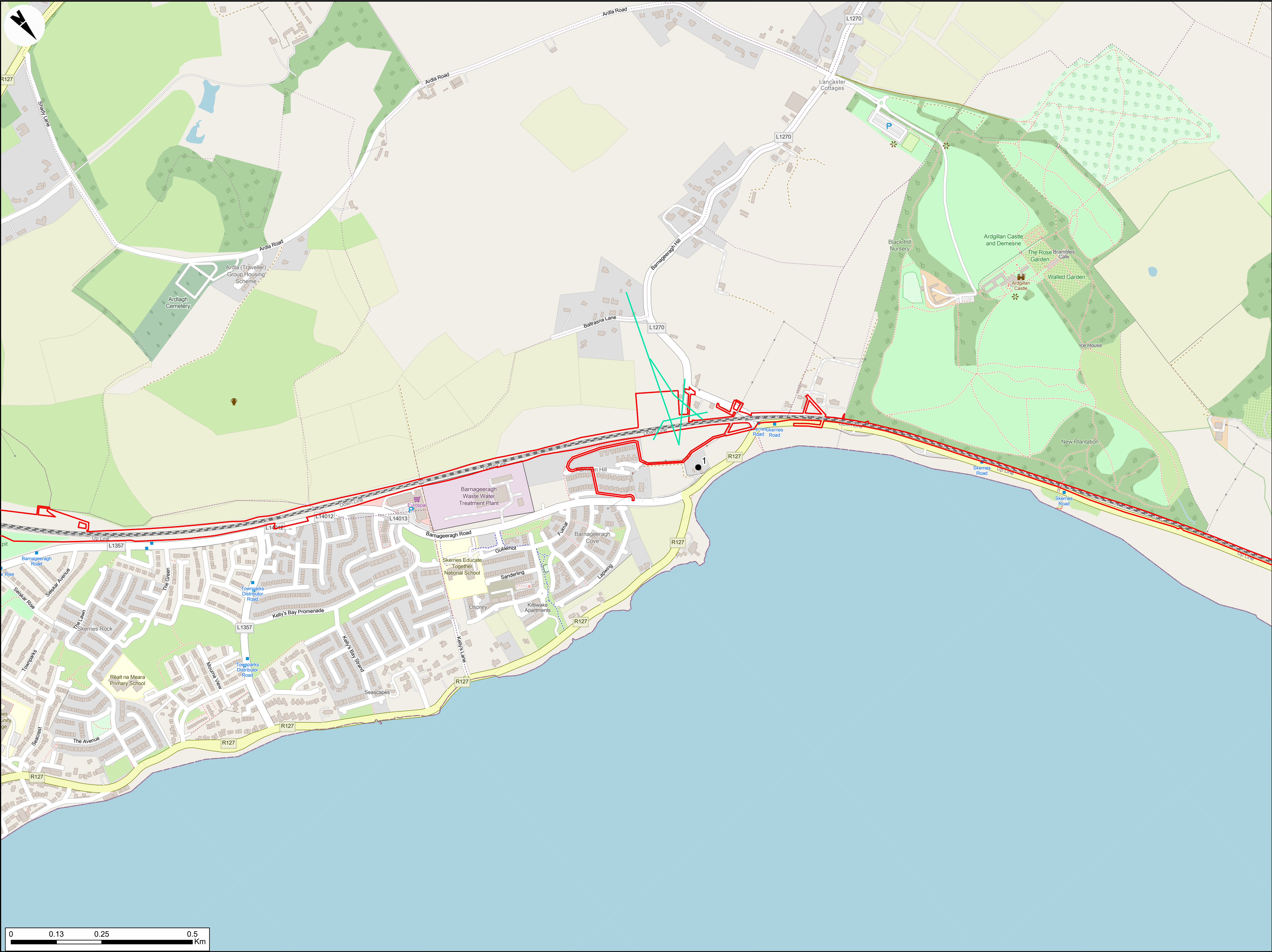


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Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
Drawn		Checked	Approved
DM		SQ	COD
QMS Code		279933-00	

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 2			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-NL-DR-EVBD-200135		65 of 85	S4
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- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - LESSER BLACK-BACKED GULL
  - FLIGHT LINES (HEIGHT)
    - LESSER BLACK-BACKED GULL: >10M

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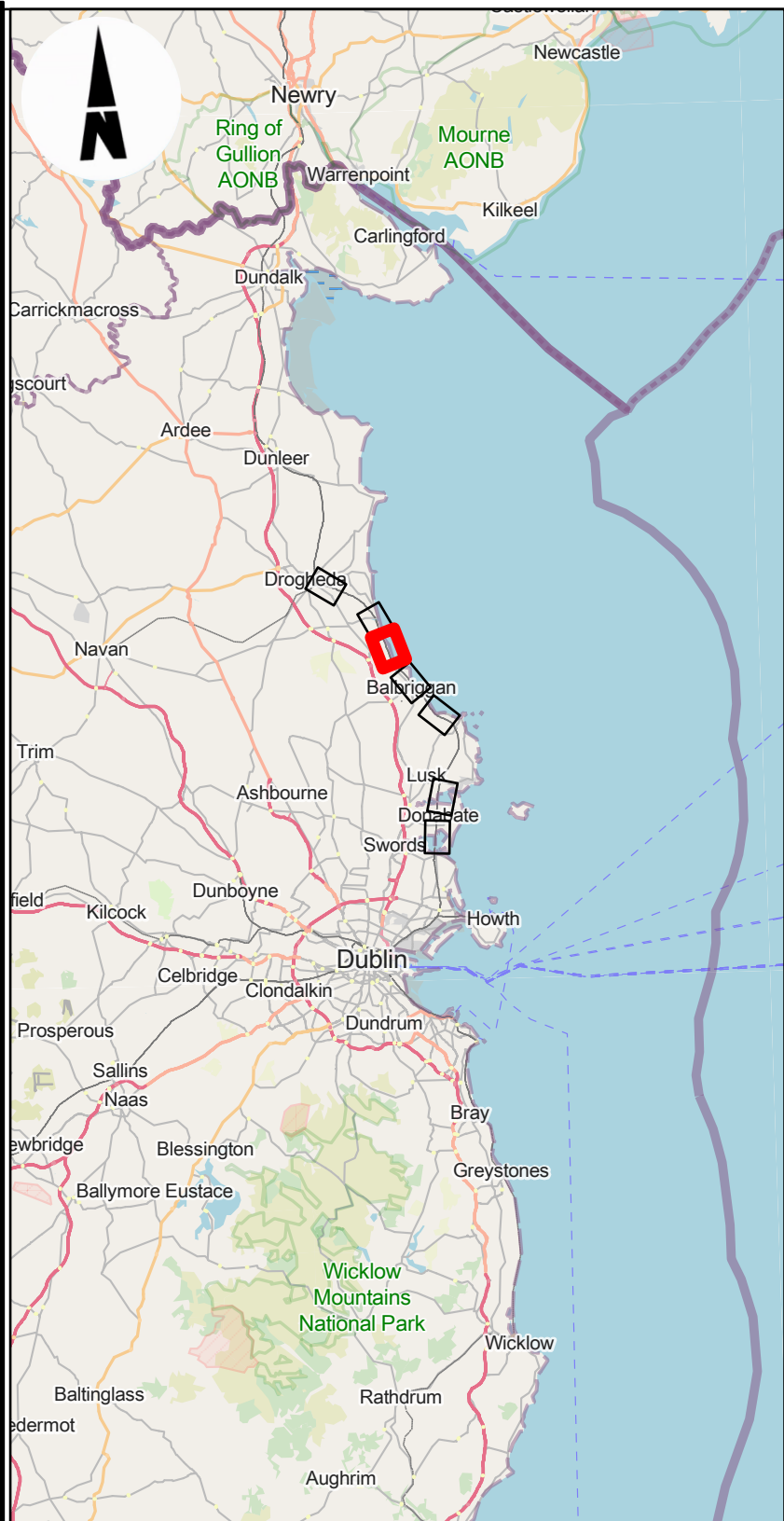
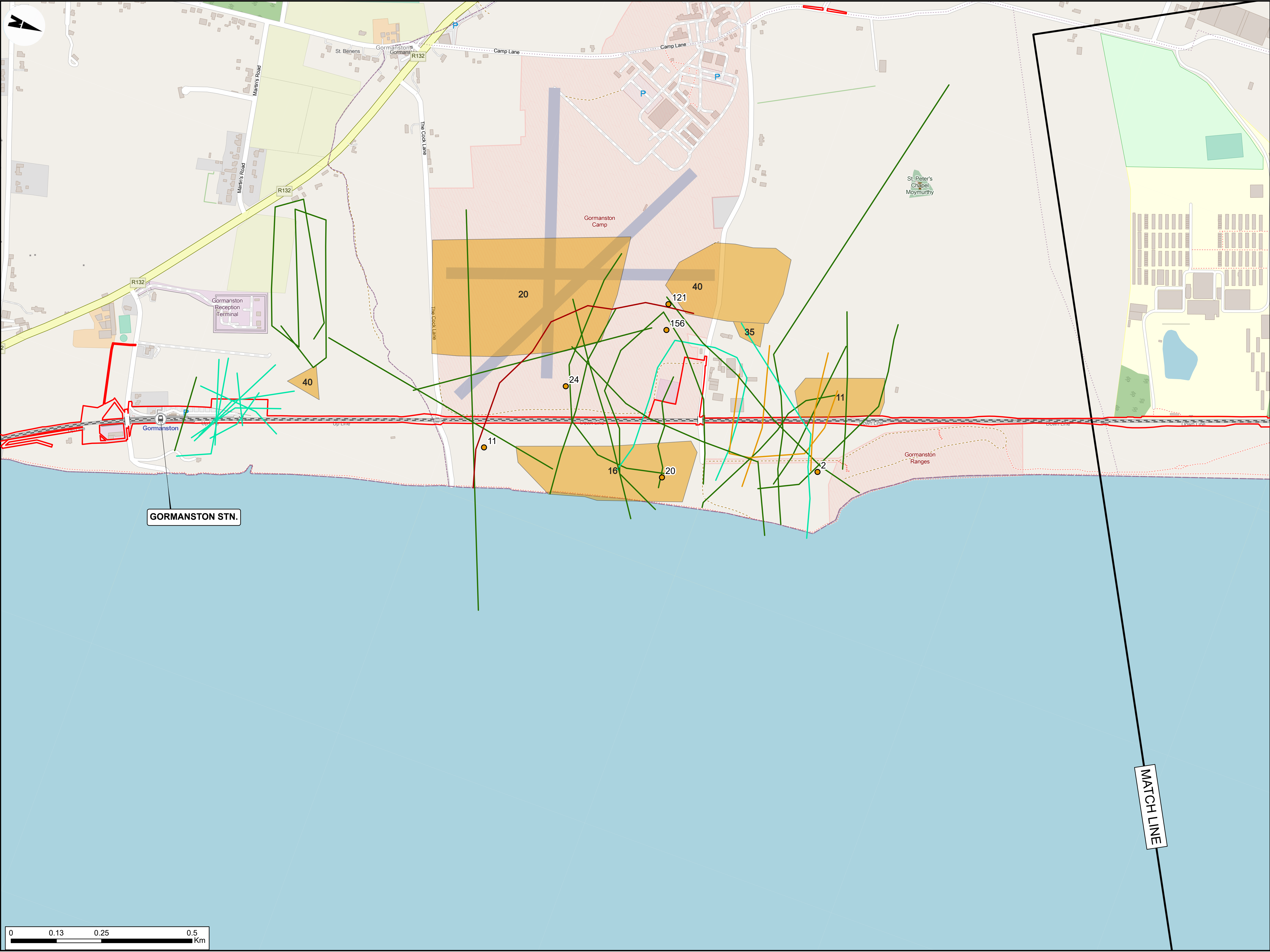
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P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client	
Iarnród Éireann Irish Rail	
Date	07/09/2023
Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56
Originator Code	ARP

Engineering Designer		
ARUP		
Drawn	DM	Checked
	SQ	Approved
	COD	
QMS Code		
279933-00		

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 3			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-NL-DR-EVBD-200136		66 of 85	S4
		Rev	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - LAPWING
  - FLOCK COUNT AREAS**
  - LAPWING
  - FLIGHT LINES (HEIGHT)**
  - LAPWING: 0-10M
  - LAPWING: >10M
  - LESSER BLACK-BACKED GULL: 0-10M
  - LESSER BLACK-BACKED GULL: >10M

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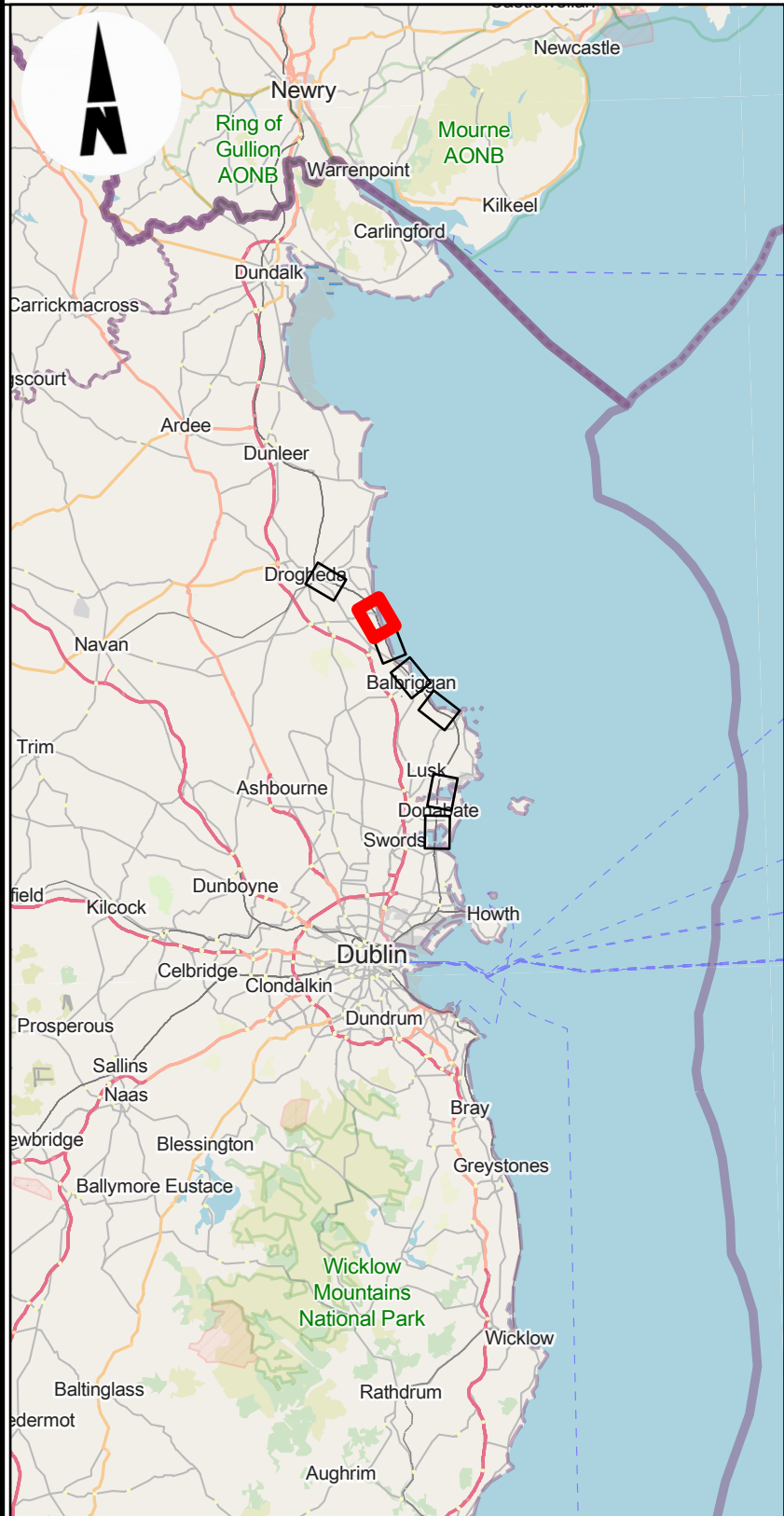
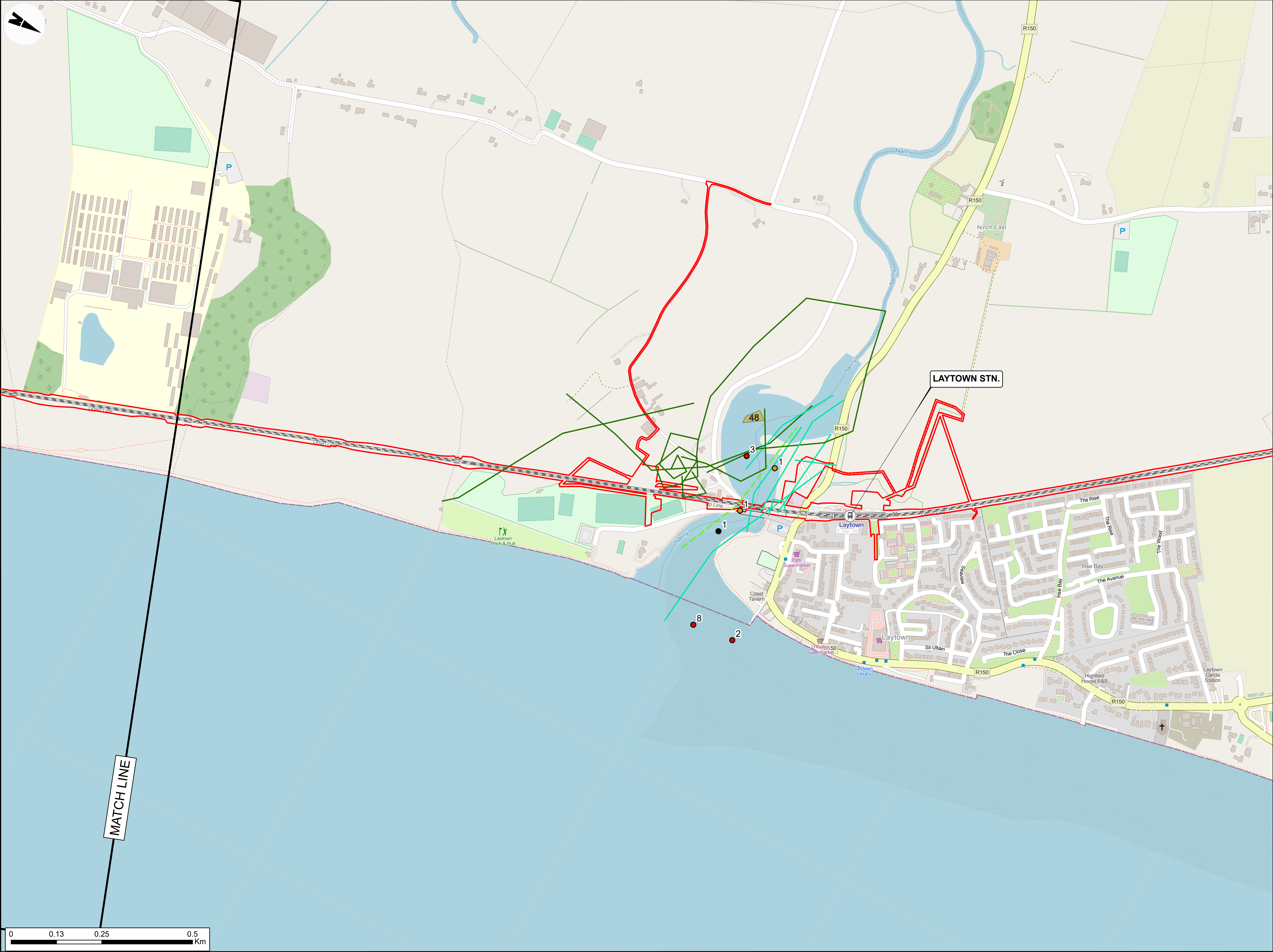


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
Drawn		Checked	Approved
DM		SQ	COD
QMS Code		279933-00	

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-NL-DR-EVBD-200137		67 of 85	S4
Rev		P02	





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
    - KNOT
    - LAPWING
    - LESSER BLACK-BACKED GULL
  - FLOCK COUNT AREAS**
    - LAPWING
  - FLIGHT LINES (HEIGHT)**
    - KNOT: >10M
    - LAPWING: >10M
    - LESSER BLACK-BACKED GULL: >10M

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P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

lanród Éireann  
Irish Rail

07/09/2023

Scale: 1:5000 @ A1  
1:10000 @ A3

Project Code: D+WP56

Originator Code: ARP

Engineering Designer

Drawn	Checked	Approved
DM	SQ	COD

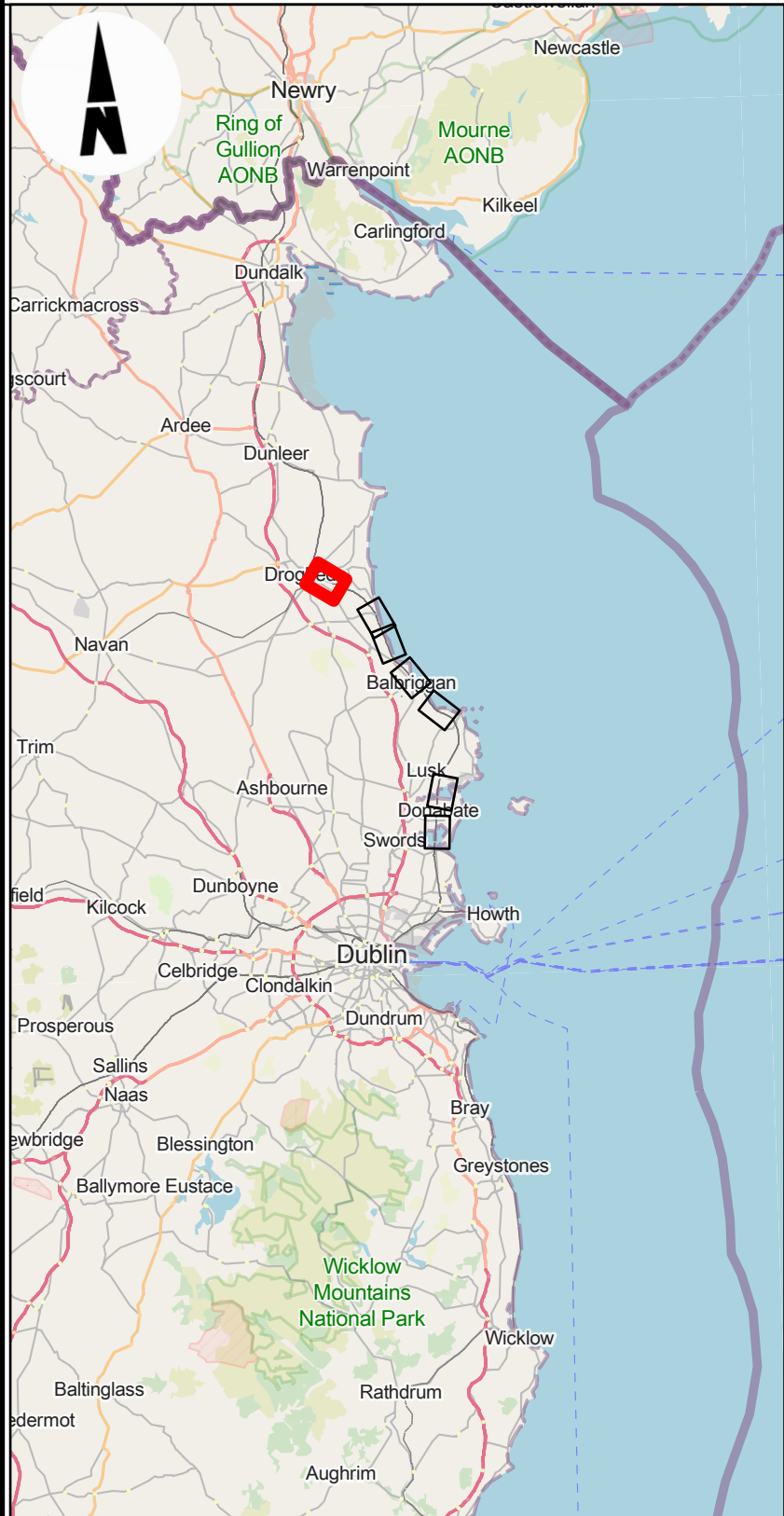
QMS Code: 279933-00

Project Title: DART+ COASTAL NORTH

Drawing Title: BIODIVERSITY  
FIGURE 6: WINTERING BIRD SURVEY  
SURVEY AREA 6

Drawing File Name	Sheet Number	Status	Rev
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- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLIGHT LINES (HEIGHT)**
  - LESSER BLACK-BACKED GULL: >10M

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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Date07/09/2023

Scale1:5000 @ A1  
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Project CodeD+WP56

Originator CodeARP

Engineering Designer

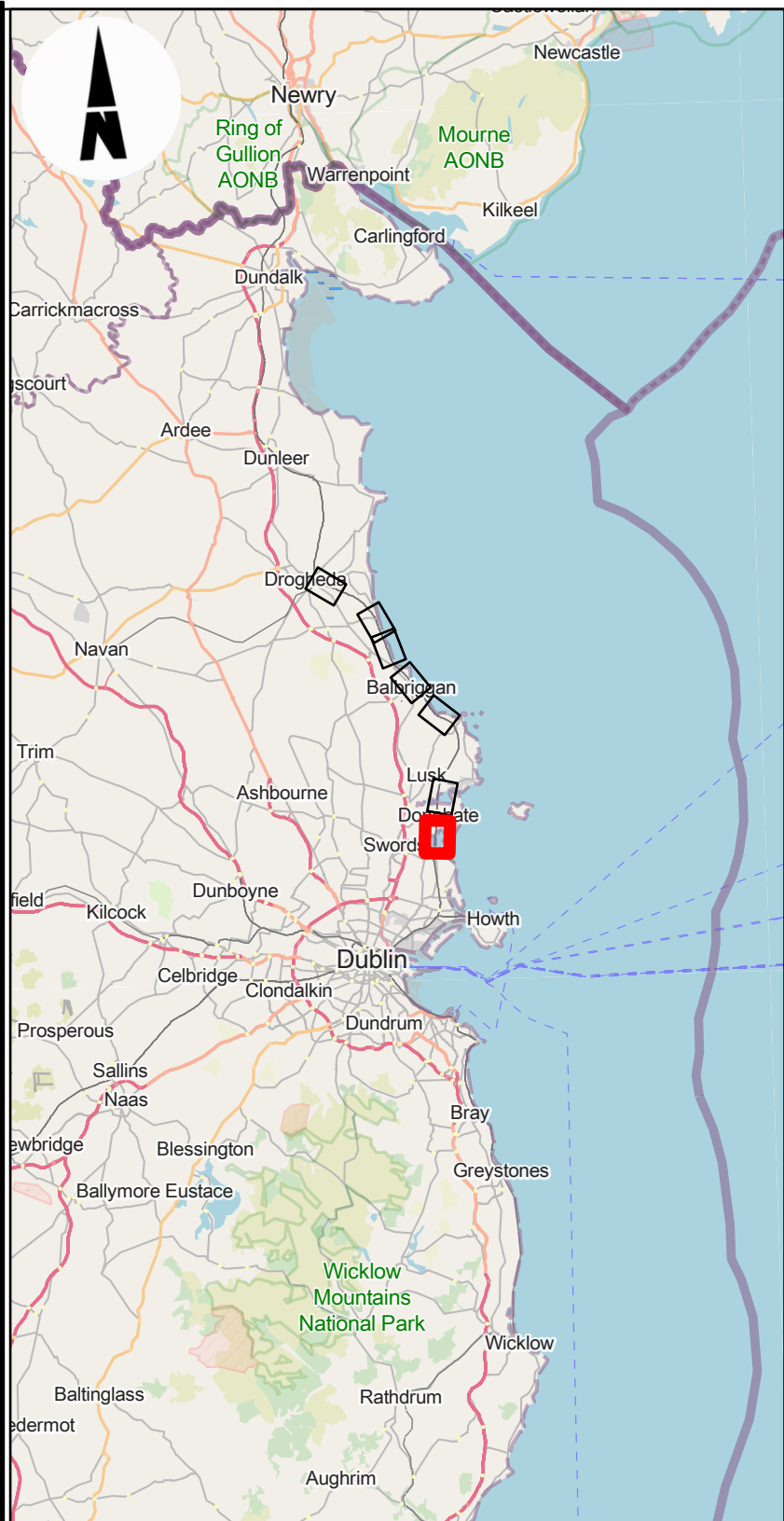
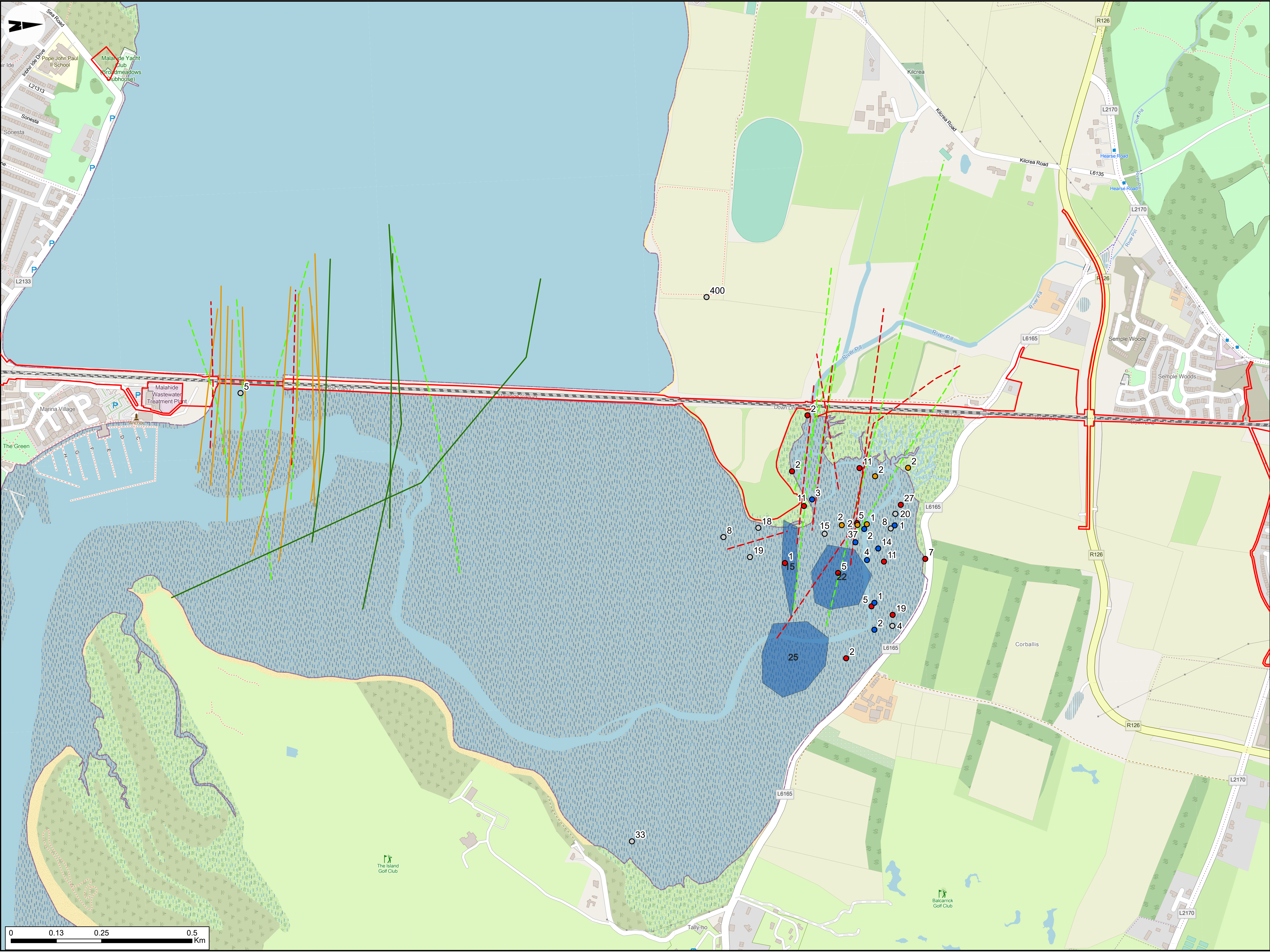
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CheckedSQ

ApprovedCOD

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 7			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-NL-DR-EVBD-200139		69 of 85	S4
Rev		Rev	
		P02	





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - MALLARD
    - PALE-BELLIED/LIGHT-BELLIED BRENT GOOSE
    - PINTAIL
    - RED-BREASTED MERGANSER
  - FLOCK COUNT AREAS
    - PINTAIL
  - FLIGHT LINES (HEIGHT)
    - MALLARD: 0-10M
    - MALLARD: >10M
    - RED-BREASTED MERGANSER: 0-10M
    - RED-BREASTED MERGANSER: >10M

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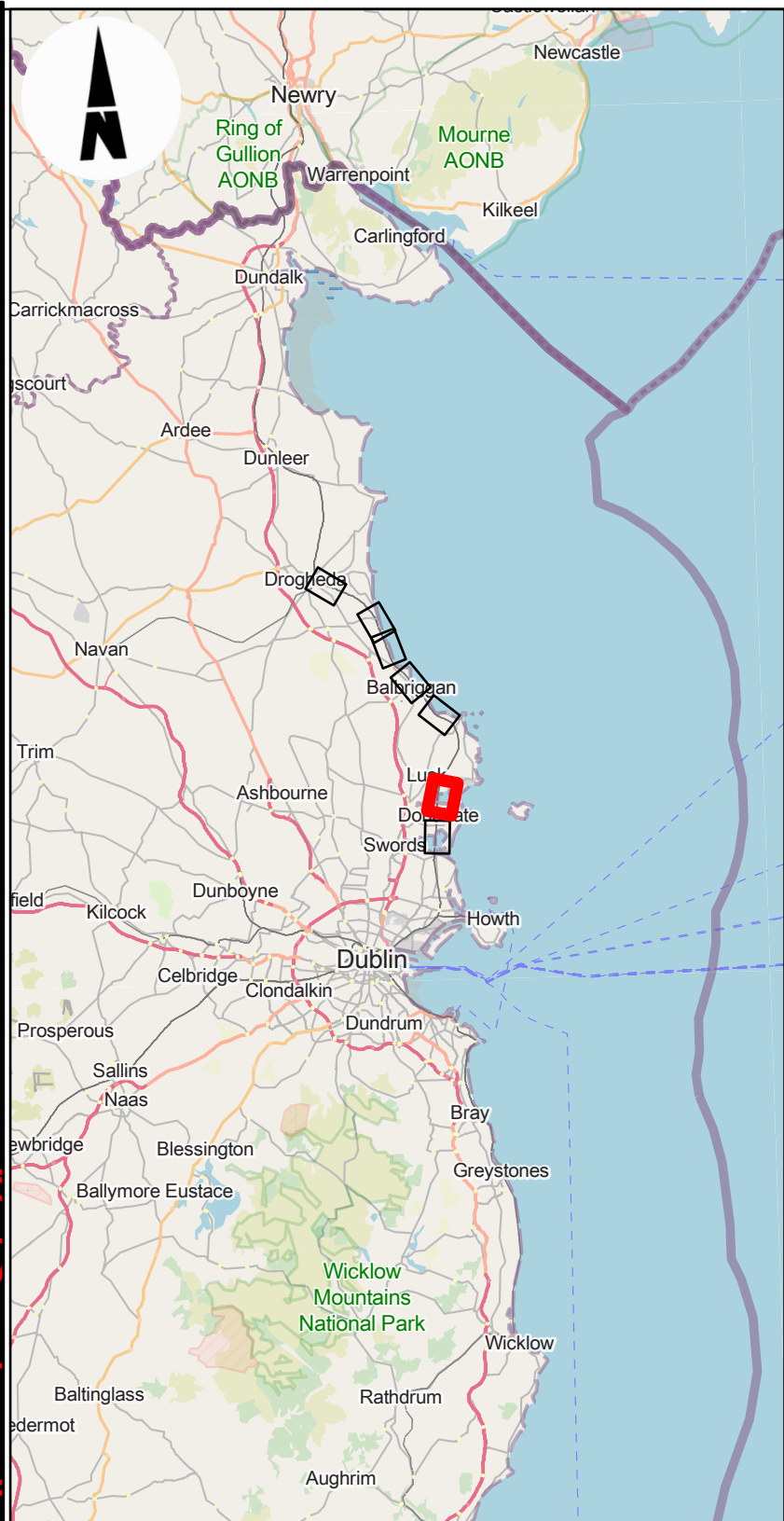
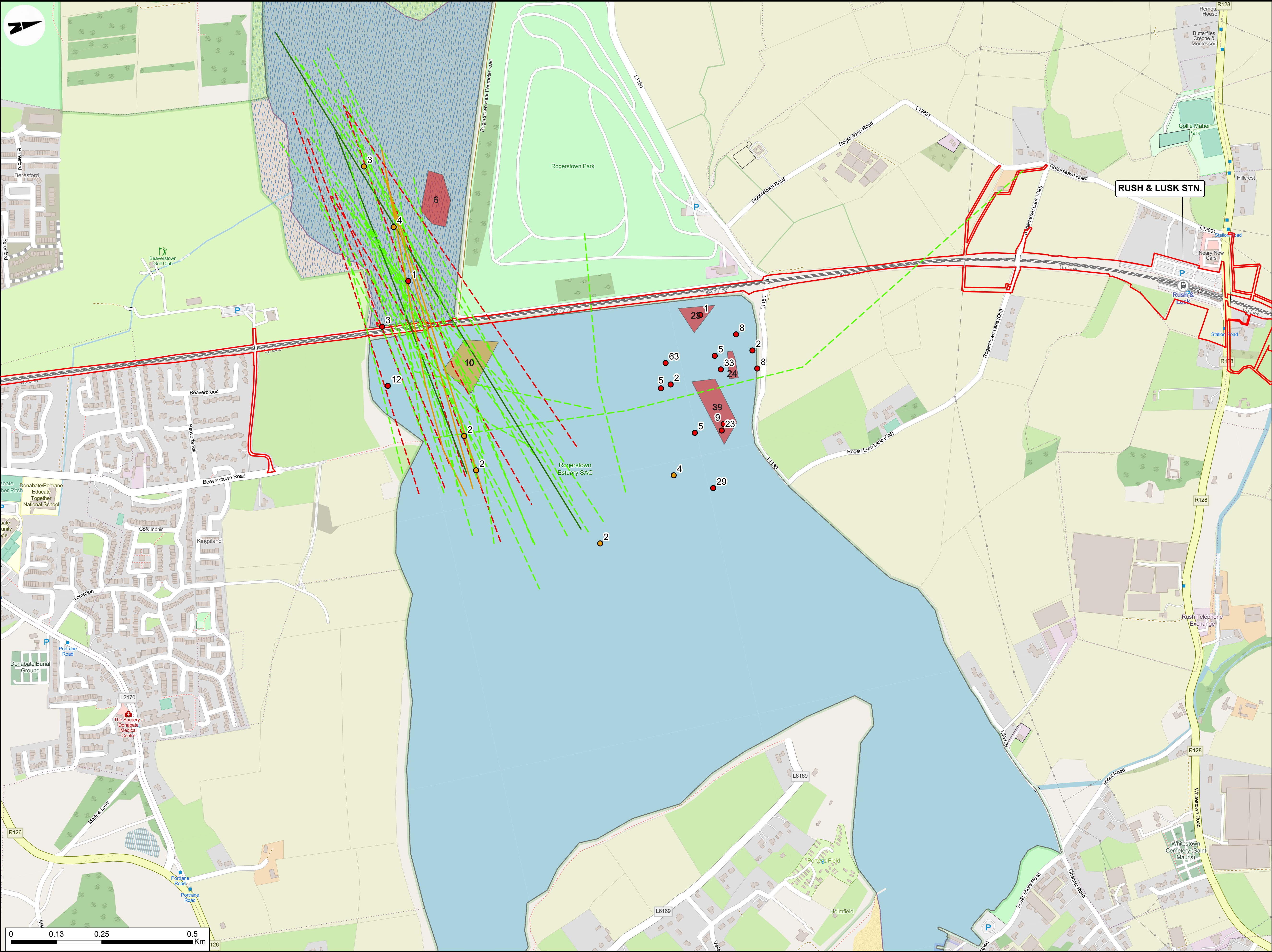


Rev	Date	Dm	Chk'd	App'd	Description
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Client		Engineering Designer	
Iarnród Éireann Irish Rail		ARUP	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
QMS Code		DM	SQ
		Approved	COD

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-LL-DR-EVBD-200140		60 of 85	S4
Rev		P02	





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - MALLARD
  - RED-BREASTED MERGANSER
  - FLOCK COUNT AREAS**
  - MALLARD
  - RED-BREASTED MERGANSER
  - FLIGHT LINES (HEIGHT)**
  - MALLARD: 0-10M
  - MALLARD: >10M
  - RED-BREASTED MERGANSER: 0-10M
  - RED-BREASTED MERGANSER: >10M

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**DART+ Coastal North**

**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

**Tionscadal Éireann**  
Project Ireland  
**2040**

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

**Client**  
**Iarnród Éireann**  
**Irish Rail**

Date: 07/09/2023  
Scale: 1:5000 @ A1  
1:10000 @ A3

Project Code: D+WP56  
Originator Code: ARP

**Engineering Designer**  
**ARUP**

Drawn	Checked	Approved
DM	SQ	COD

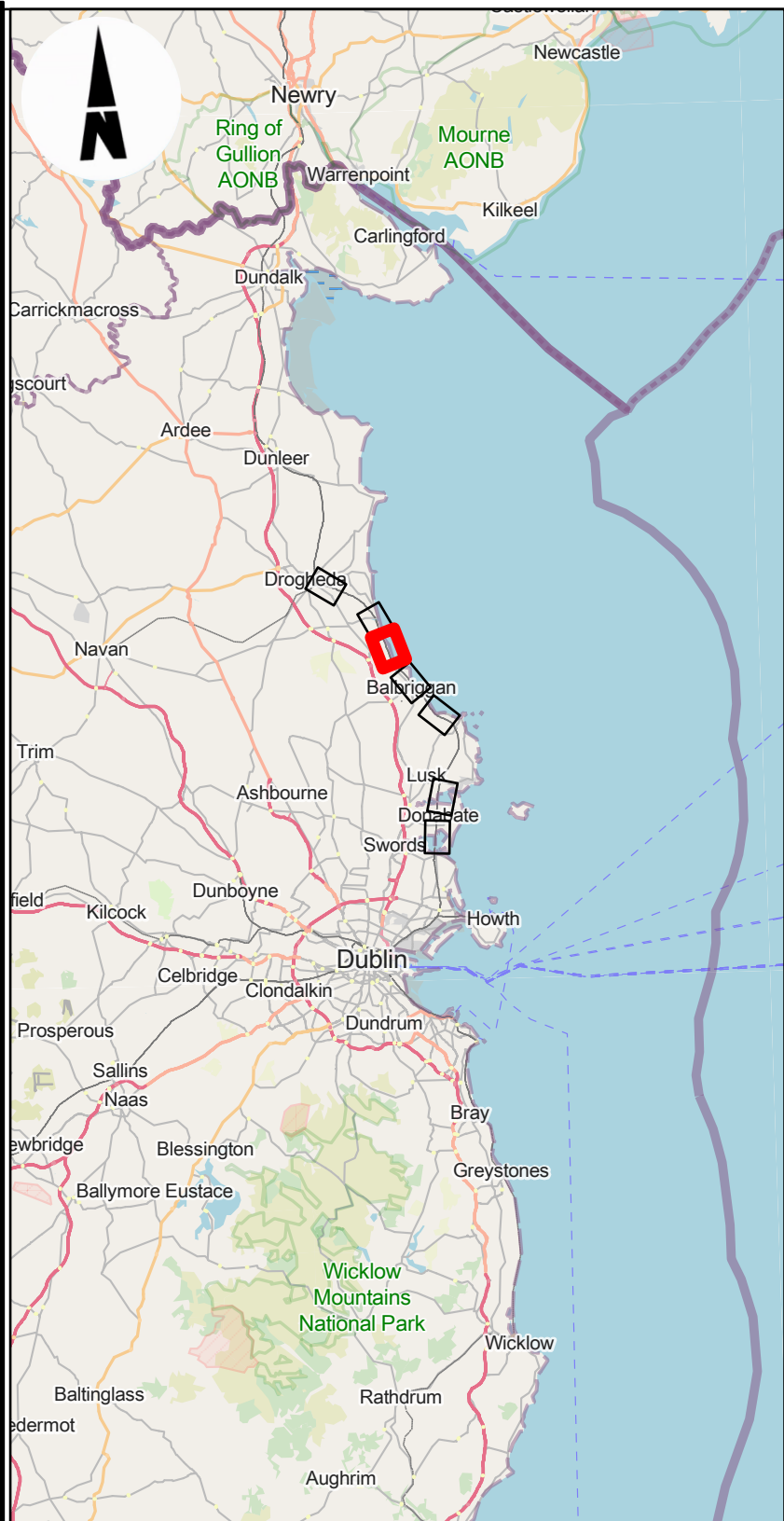
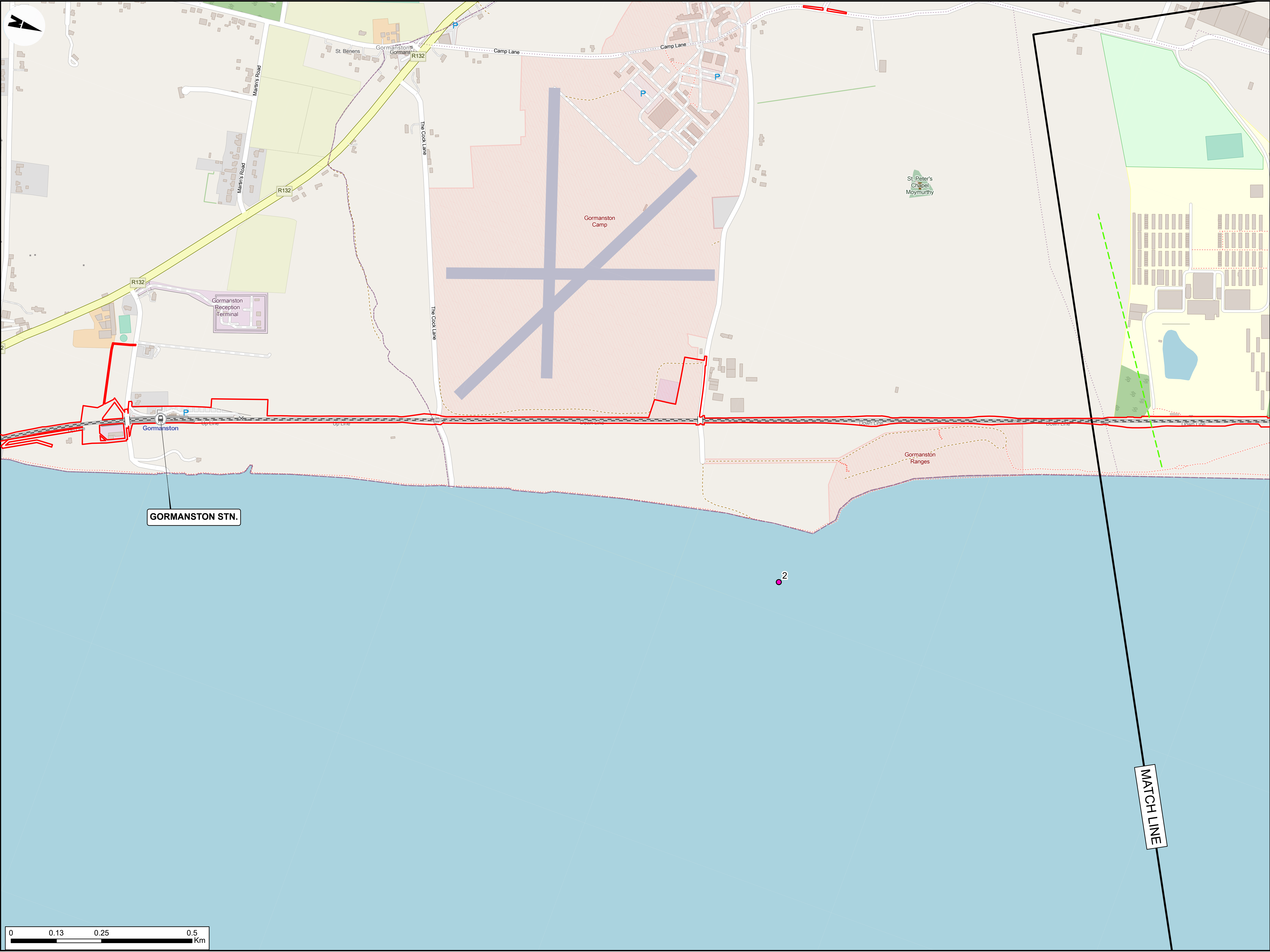
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**Project Title**  
**DART+ COASTAL NORTH**

**Drawing Title**  
**BIODIVERSITY**  
**FIGURE 6: WINTERING BIRD SURVEY**  
**SURVEY AREA 2**

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- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - RAZORBILL
  - FLIGHT LINES (HEIGHT)**
  - MALLARD: >10M

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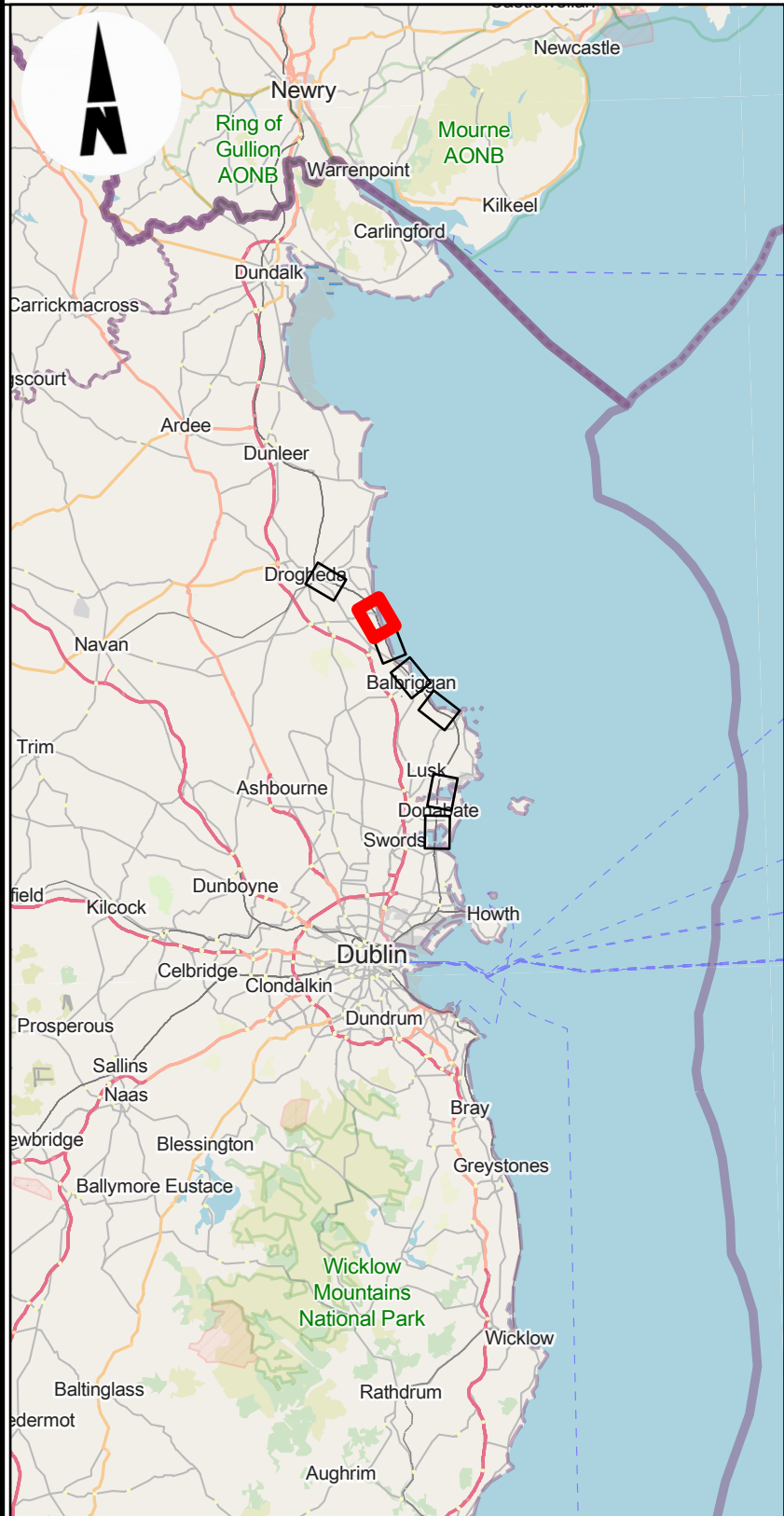
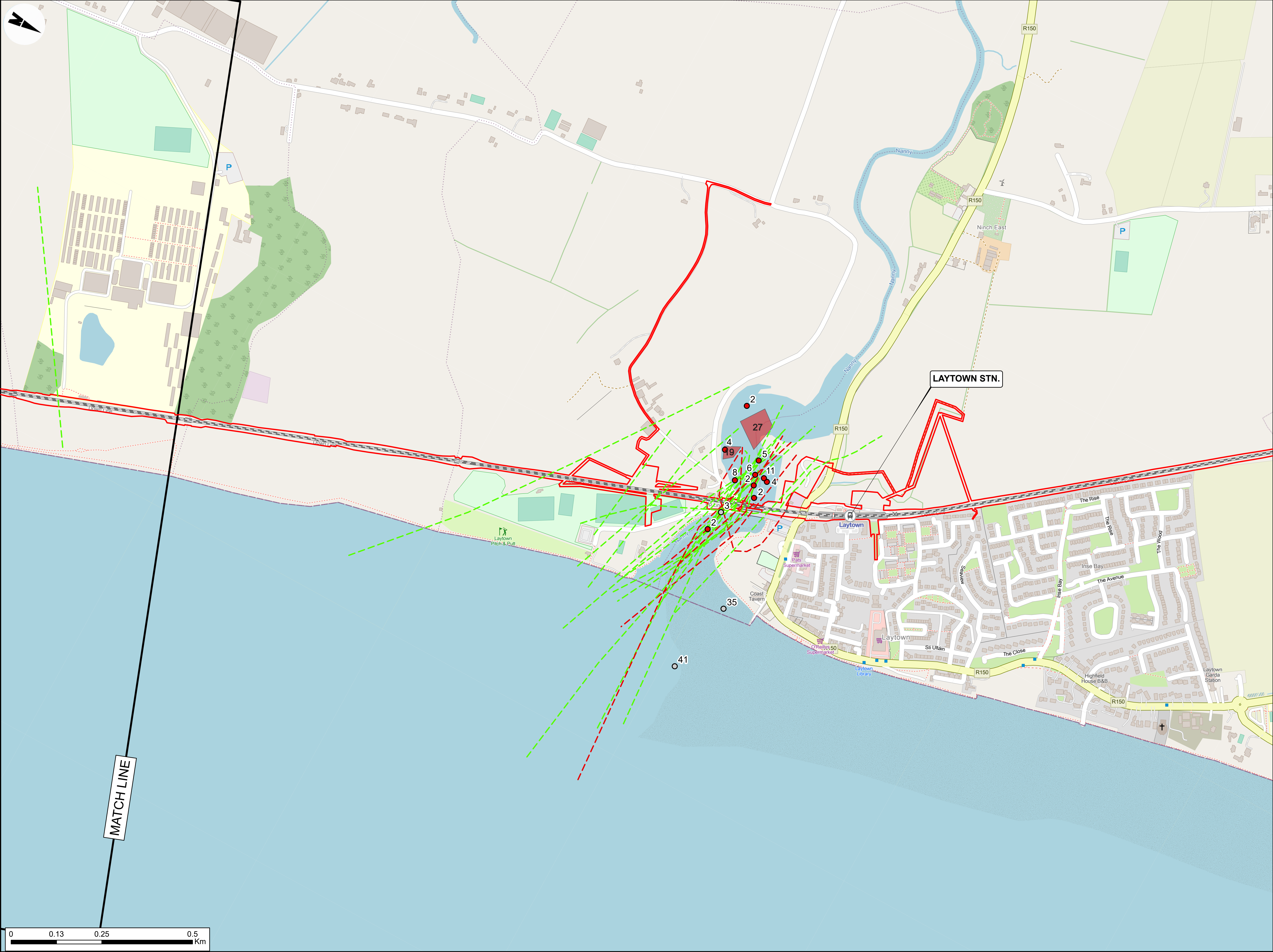


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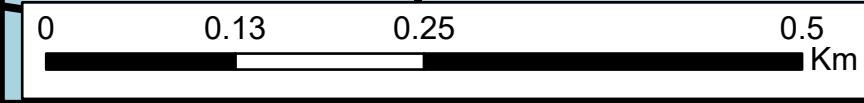
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Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
Drawn		Checked	Approved
DM		SQ	COD
QMS Code		279933-00	

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5			
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200142	62 of 85	S4	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
    - MALLARD
    - PALE-BELLIED/LIGHT-BELLIED BRENT GOOSE
  - FLOCK COUNT AREAS**
    - MALLARD
  - FLIGHT LINES (HEIGHT)**
    - MALLARD: 0-10M
    - MALLARD: >10M



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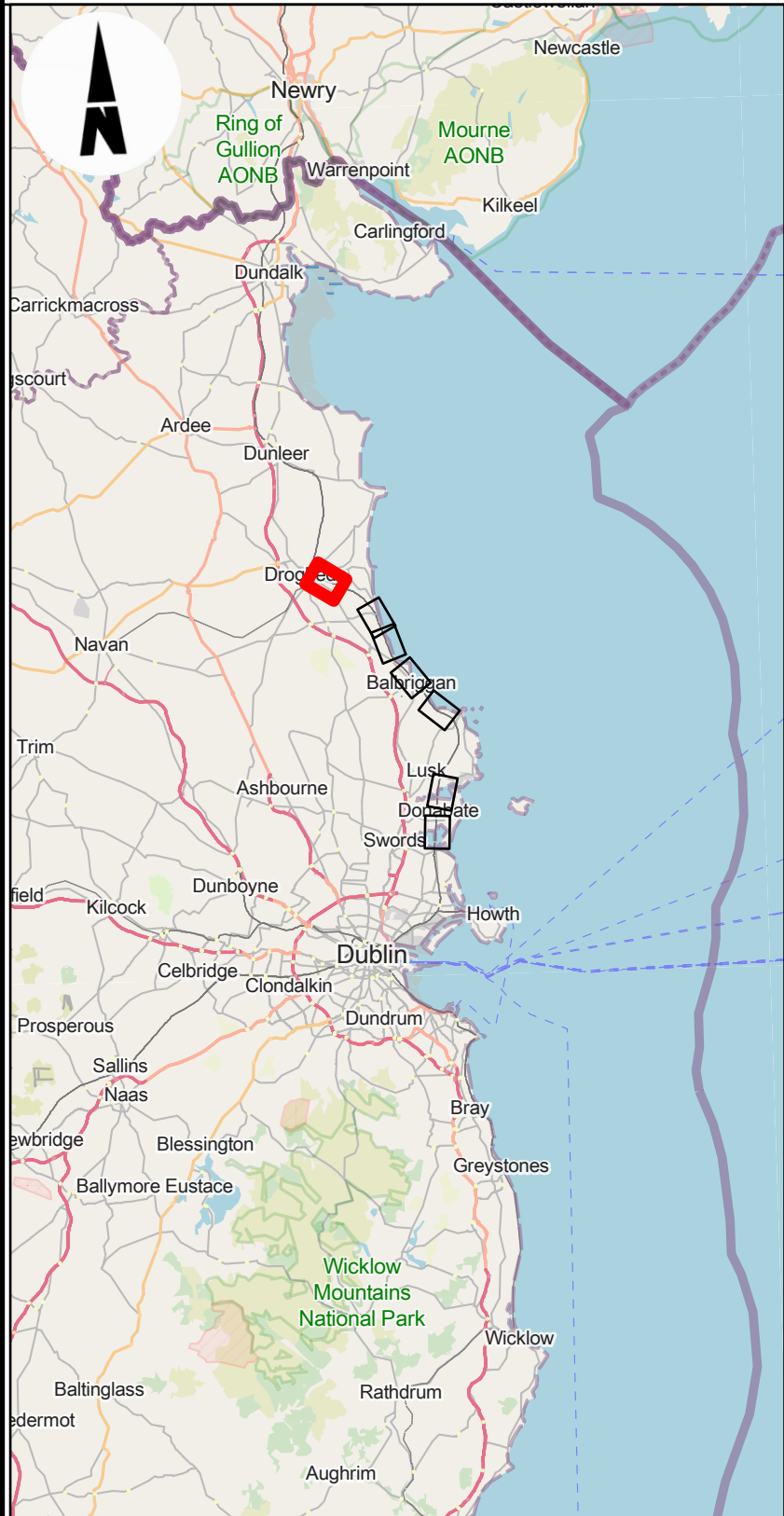
**NOTES**  
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2. BIRD COUNTS AT EACH POINT OR WITHIN EACH AREA DISPLAYED AS LABELS.  
3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.



Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client <b>larnród Éireann Irish Rail</b>		Engineering Designer <b>ARUP</b>			Project Title <b>DART+ COASTAL NORTH</b>	
Date 07/09/2023		Scale 1:5000 @ A1 1:10000 @ A3			Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6</b>	
Project Code D+WP56		Originator Code ARP			Drawing File Name D+WP56-ARP-ZZ-LL-DR-EVBD-200143	
		QMS Code 279933-00			Sheet Number 63 of 85	Status S4
					Rev P02	





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLIGHT LINES (HEIGHT)
  - MALLARD: >10M

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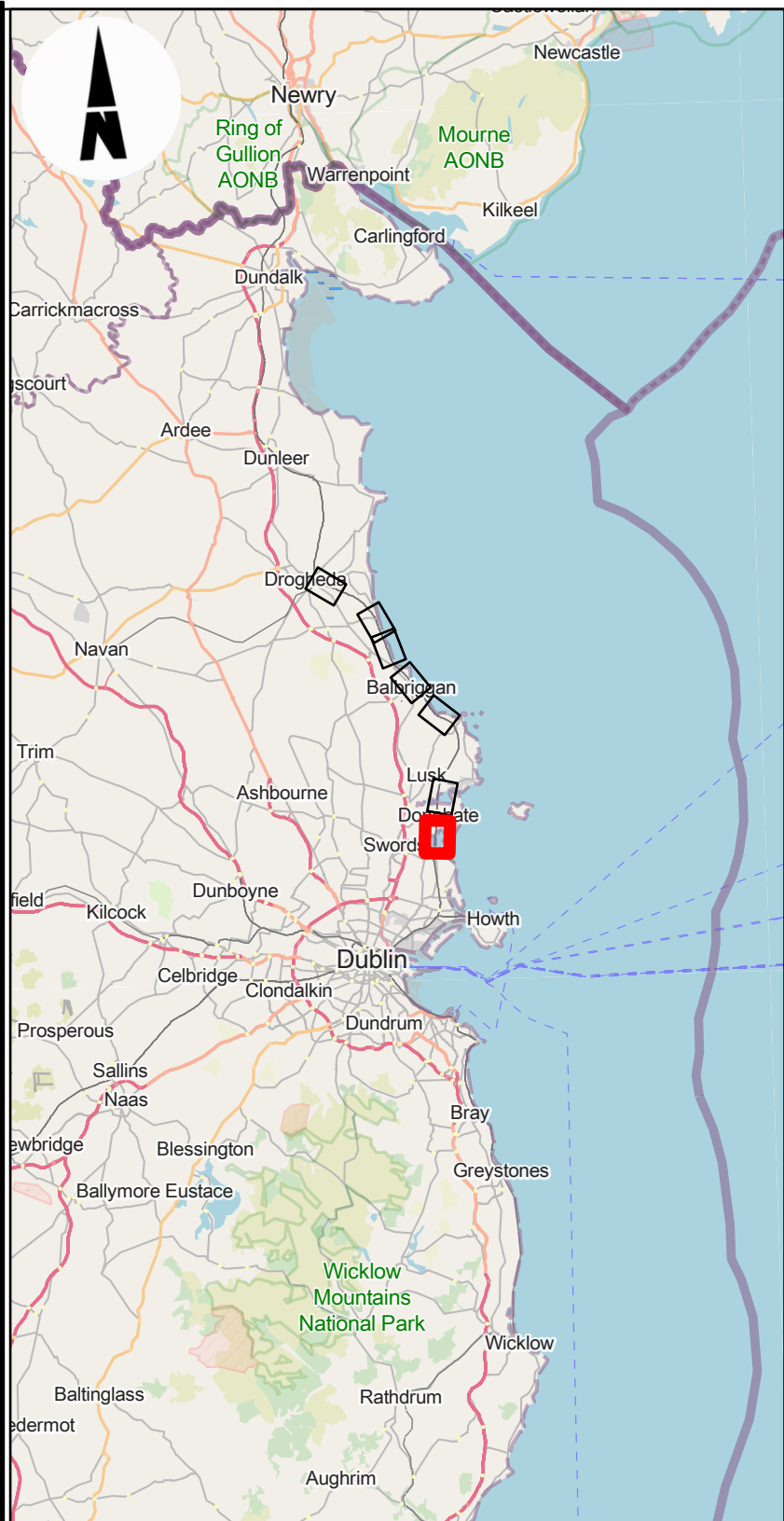
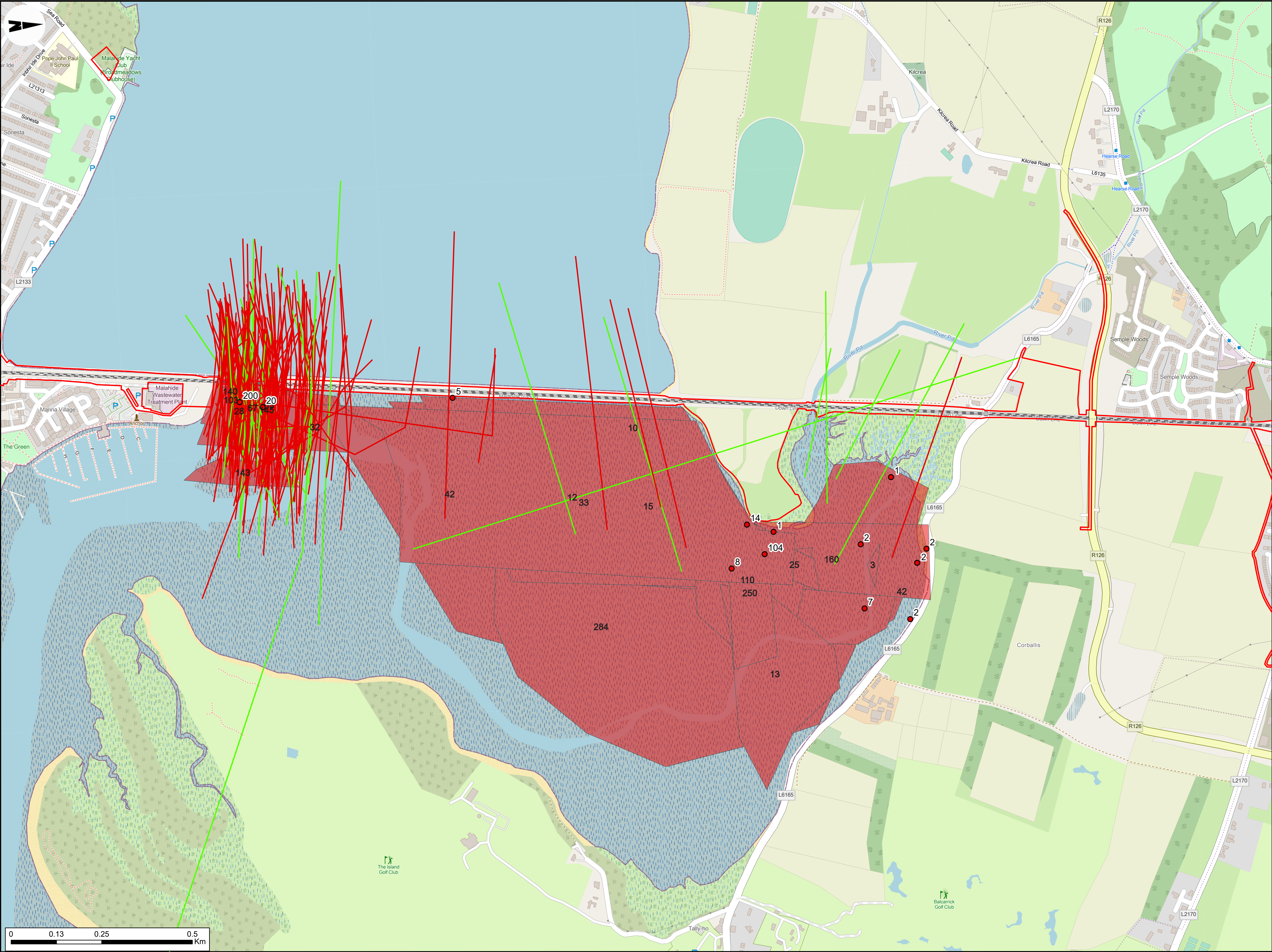
Tionscadal Éireann  
Project Ireland  
2040

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ARUP	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
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		Checked	SQ
		Approved	COD

Project Title		DART+ COASTAL NORTH	
Drawing Title		BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 7	
Drawing File Name		D+WP56-ARP-ZZ-NL-DR-EVBD-200144	
Sheet Number	64 of 85	Status	S4
Rev	P02		





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
  - OYSTERCATCHER
  - FLOCK COUNT AREAS
  - OYSTERCATCHER
  - FLIGHT LINES (HEIGHT)
  - OYSTERCATCHER: 0-10M
  - OYSTERCATCHER: >10M

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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Date	Scale	Drawn	Checked	Approved
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Project Code	Originator Code	QMS Code
D+WP56	ARP	279933-00

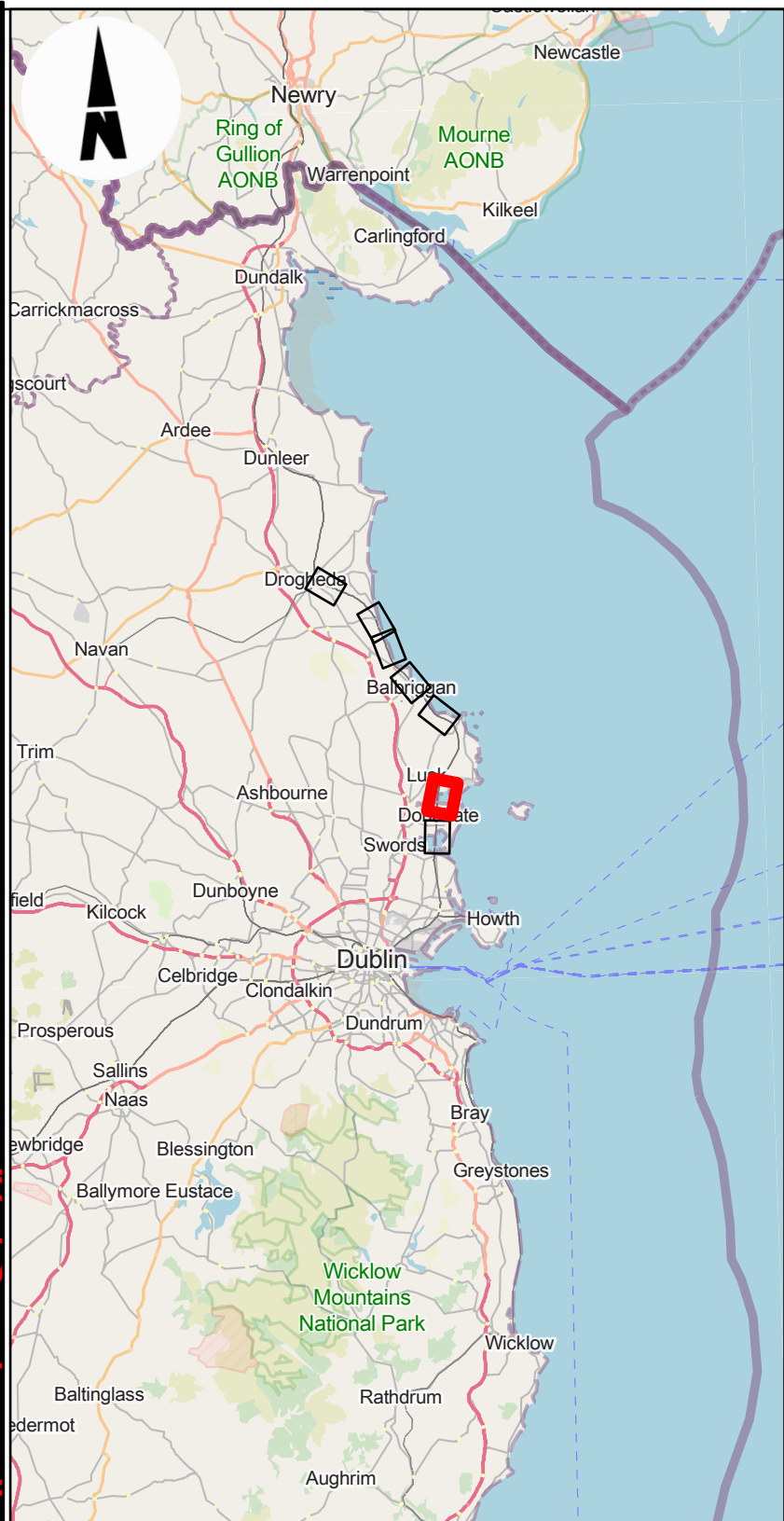
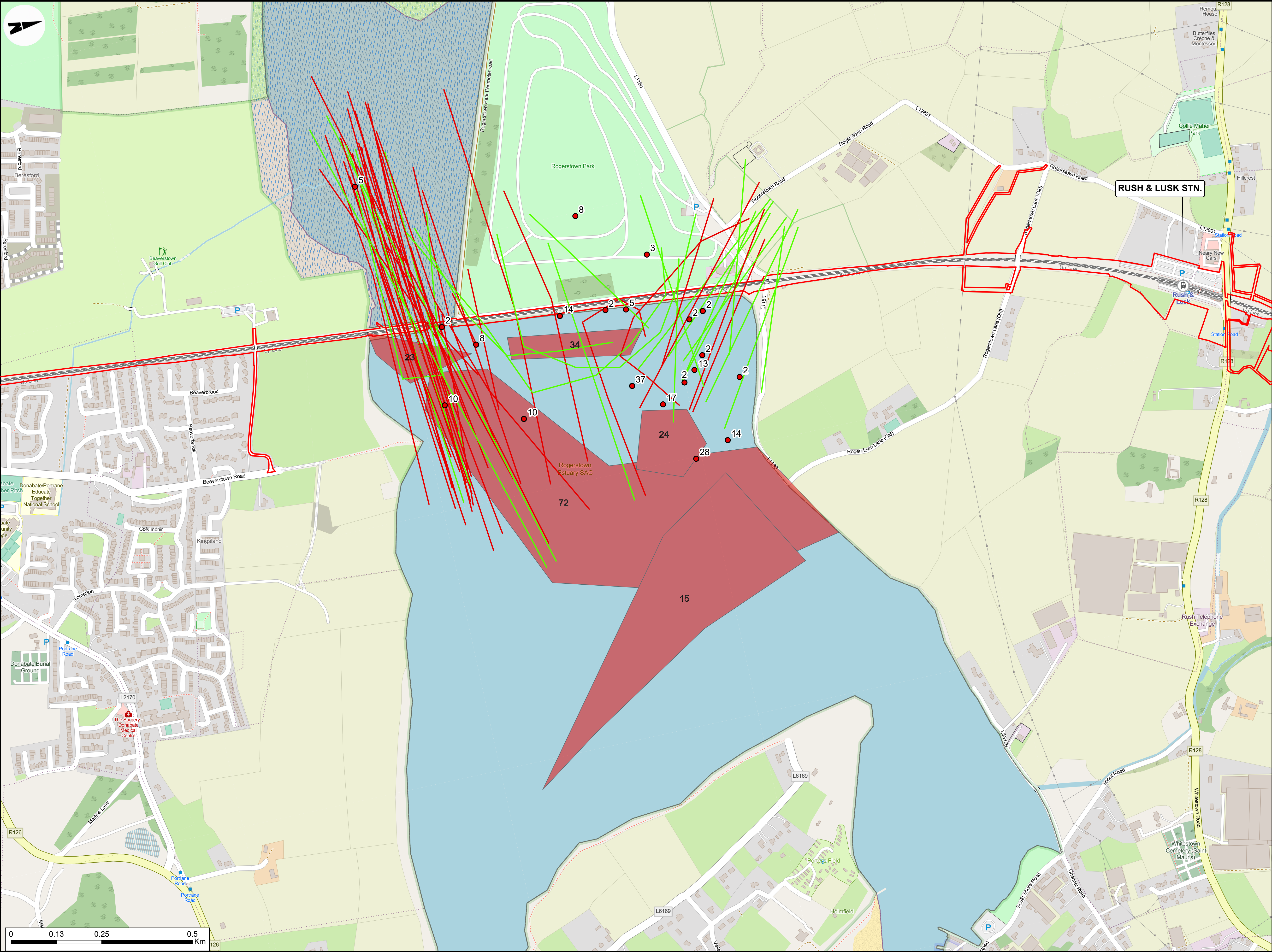
Project Title	
DART+ COASTAL NORTH	

Drawing Title	
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1	

Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-LL-DR-EVBD-200145	65 of 85	S4	P02

© Arup





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - OYSTERCATCHER
  - FLOCK COUNT AREAS**
  - OYSTERCATCHER
  - FLIGHT LINES (HEIGHT)**
  - OYSTERCATCHER: 0-10M
  - OYSTERCATCHER: >10M

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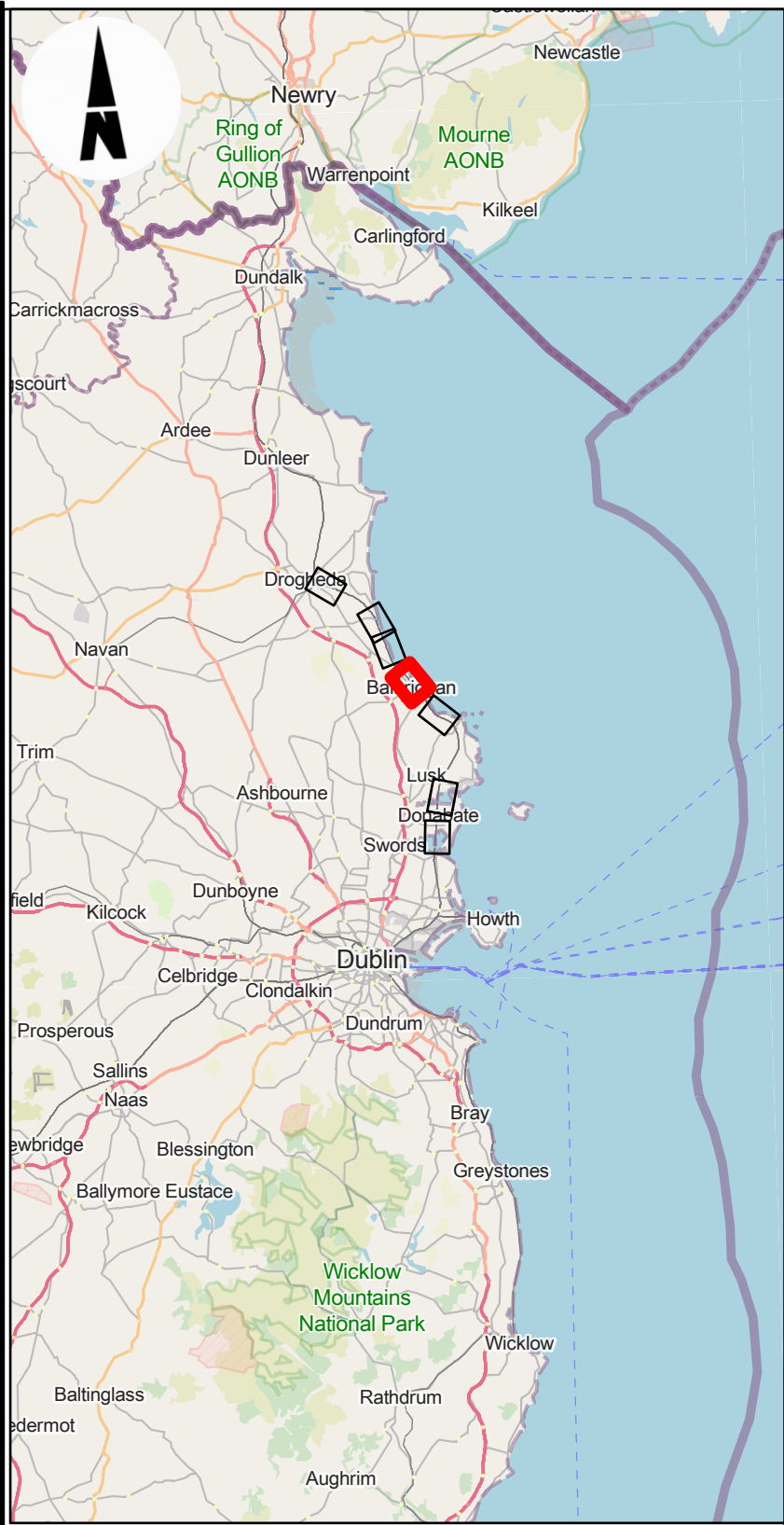


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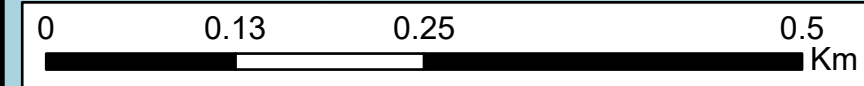
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Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
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		Checked	SQ
		Approved	COD
		QMS Code	279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 2			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-NL-DR-EVBD-200146		66 of 85	S4
		Rev	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - OYSTERCATCHER
  - FLOCK COUNT AREAS
    - OYSTERCATCHER
  - FLIGHT LINES (HEIGHT)
    - OYSTERCATCHER: 0-10M
    - OYSTERCATCHER: >10M



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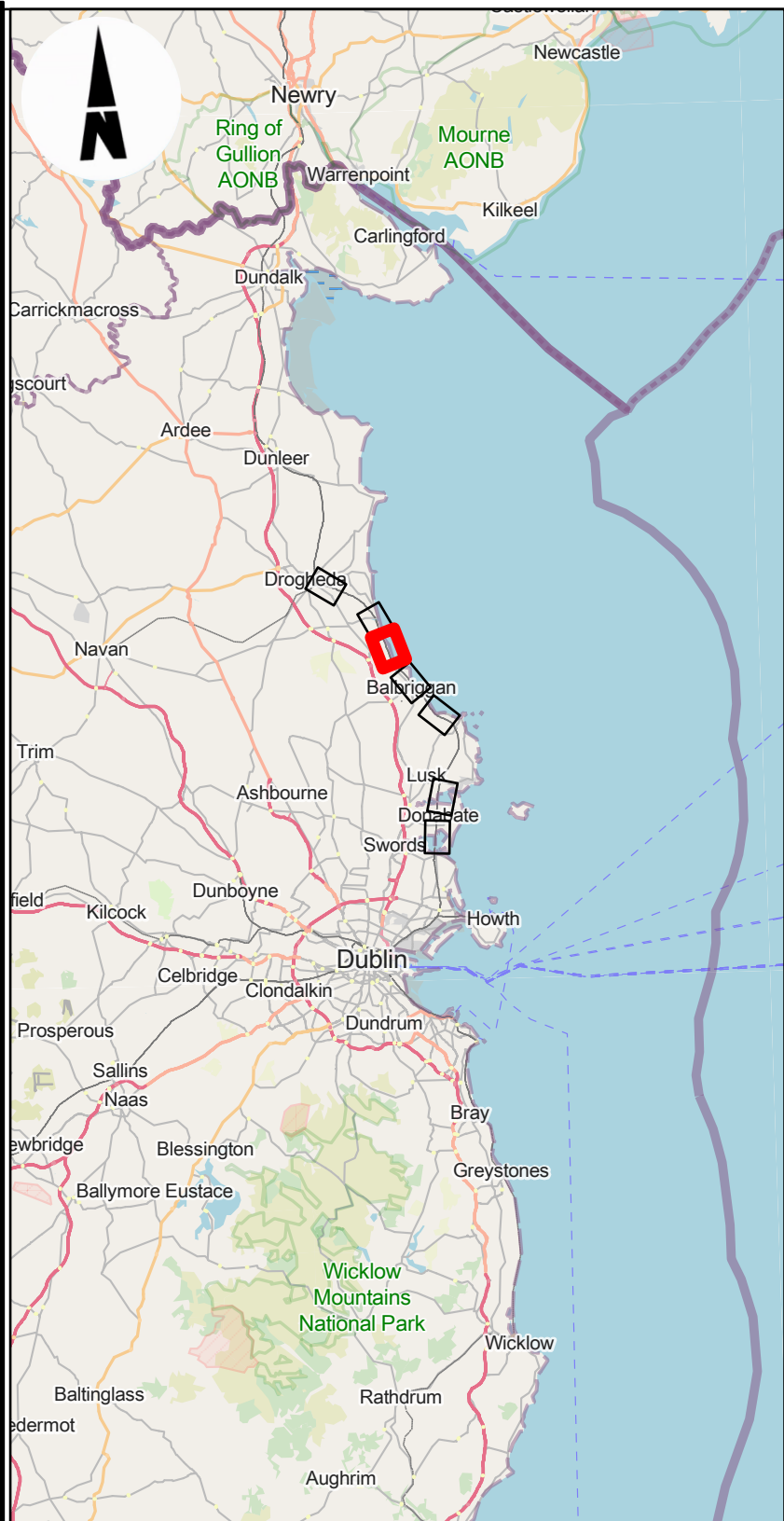
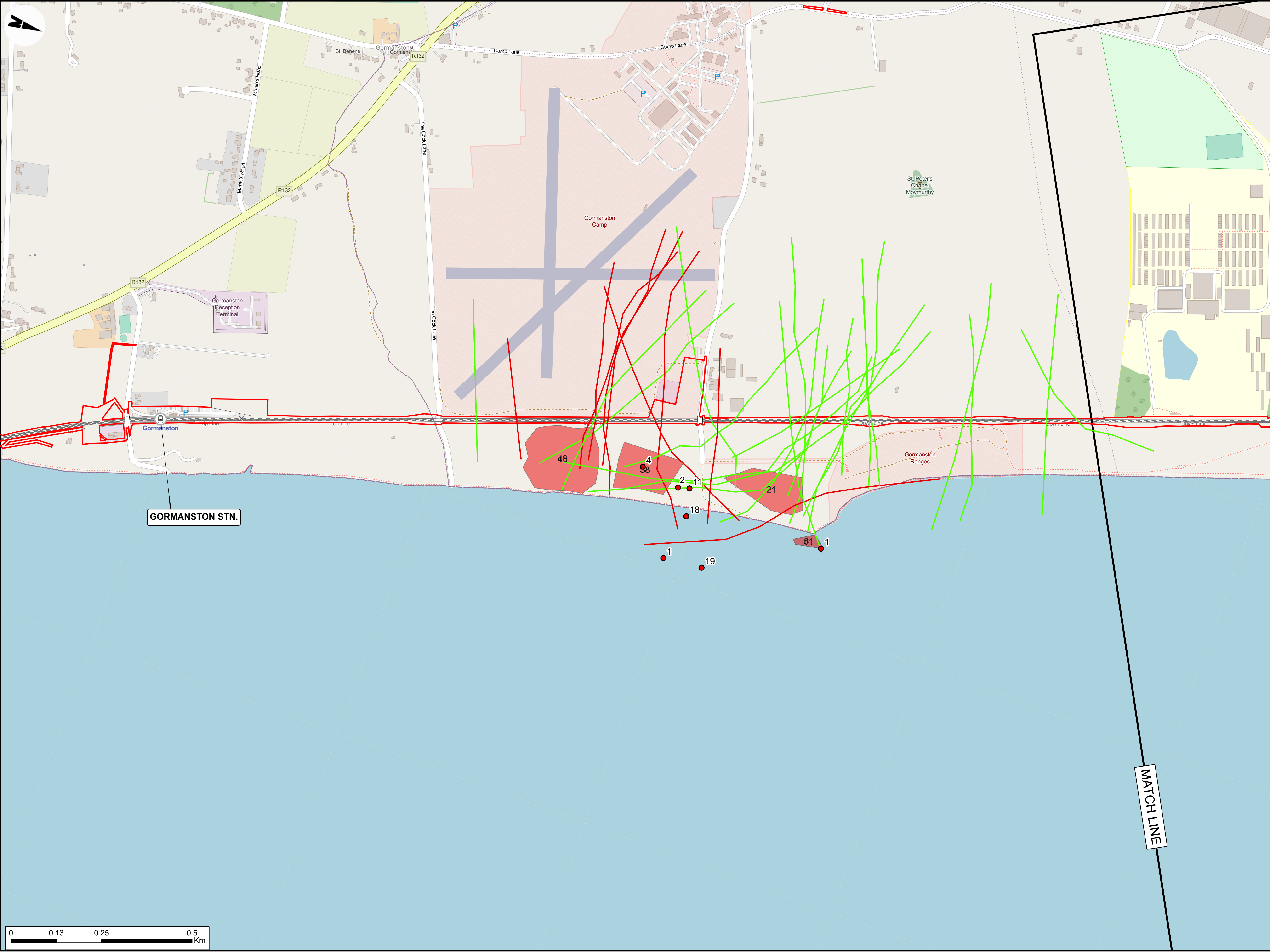
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Rev	Date	Dm	Chkd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer			Project Title	
Iarnród Éireann Irish Rail		ARUP			DART+ COASTAL NORTH	
Date		Scale		Drawn	Checked	Approved
07/09/2023		1:5000 @ A1 1:10000 @ A3		DM	SQ	COD
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D+WP56		ARP		279933-00		D+WP56-ARP-ZZ-LN-DR-EVBD-200147
Sheet Number		Status		Rev		
67 of 85		S4		P02		





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - OYSTERCATCHER
  - FLOCK COUNT AREAS**
  - OYSTERCATCHER
  - FLIGHT LINES (HEIGHT)**
  - OYSTERCATCHER: 0-10M
  - OYSTERCATCHER: >10M

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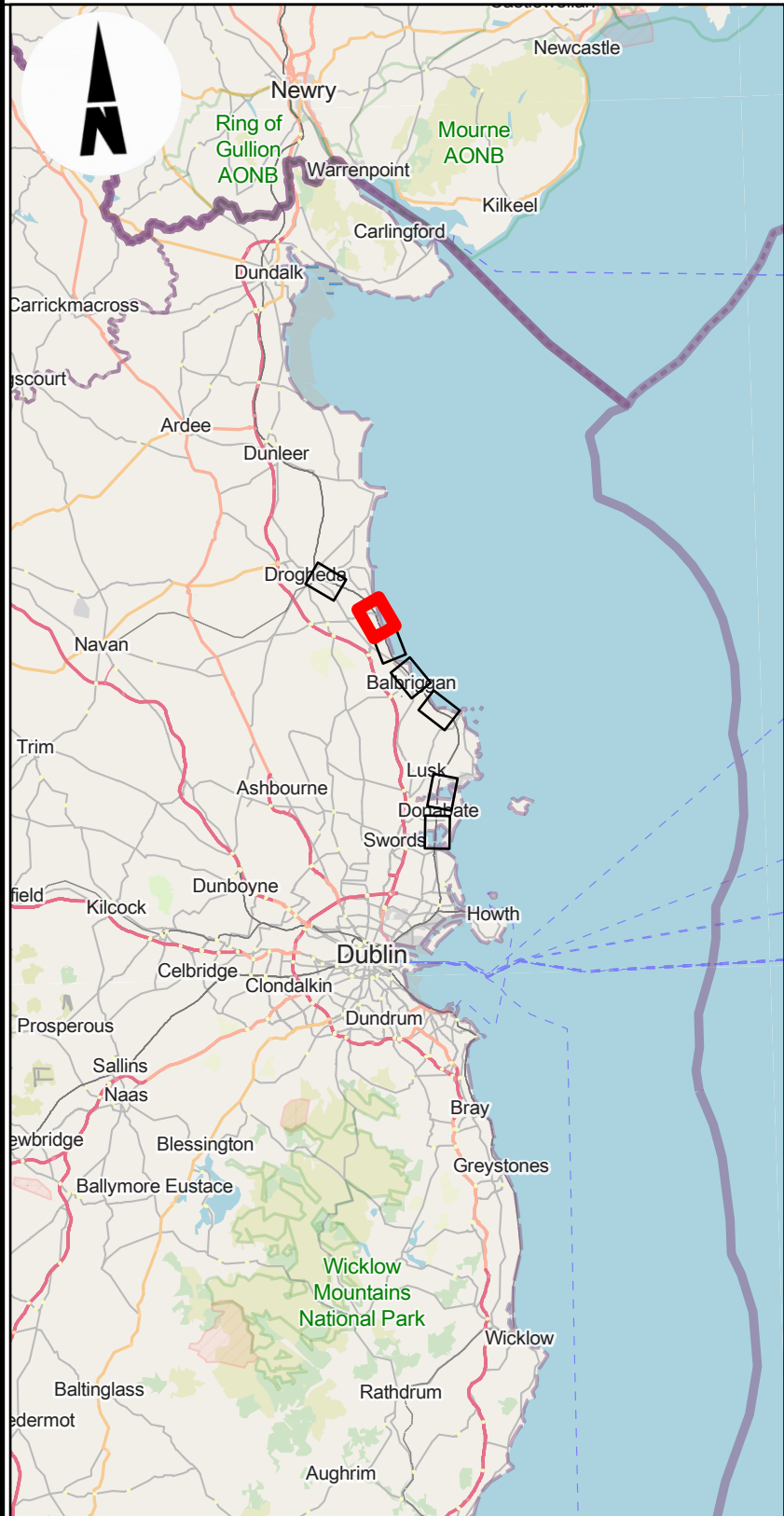
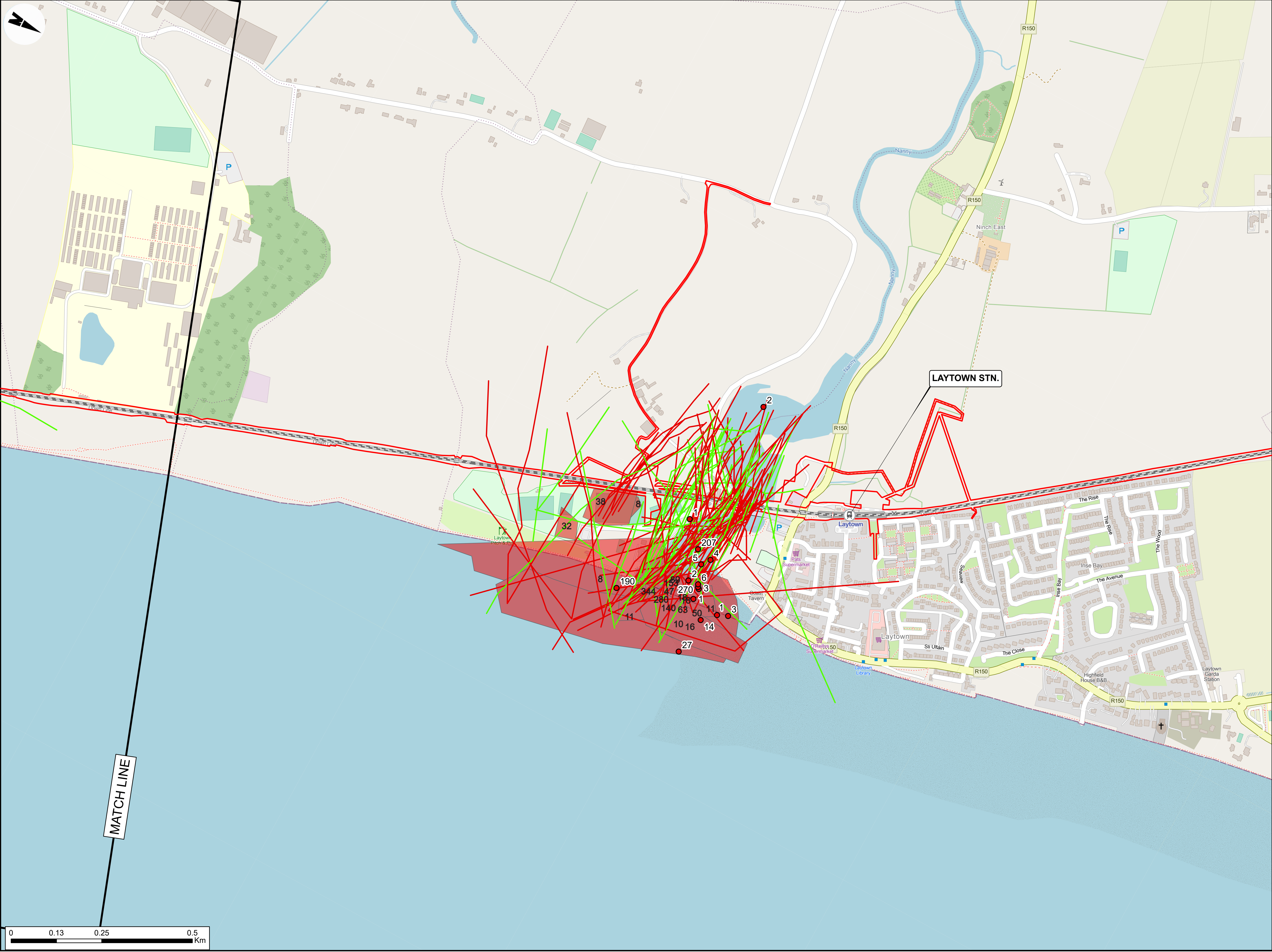


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P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

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Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
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QMS Code		279933-00	

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5			
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200148	68 of 85	S4	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - OYSTERCATCHER
  - FLOCK COUNT AREAS**
  - OYSTERCATCHER
  - FLIGHT LINES (HEIGHT)**
  - OYSTERCATCHER: 0-10M
  - OYSTERCATCHER: >10M

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**DART+ Coastal North**

**NTA**  
Údaráis Náisiúnta Iompair  
National Transport Authority

**Tionscadal Éireann**  
Project Ireland  
**2040**

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

**Client**  
**Iarnród Éireann**  
**Irish Rail**

Date: 07/09/2023  
Scale: 1:5000 @ A1  
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Project Code: D+WP56  
Originator Code: ARP

**Engineering Designer**  
**ARUP**

Drawn	Checked	Approved
DM	SQ	COD

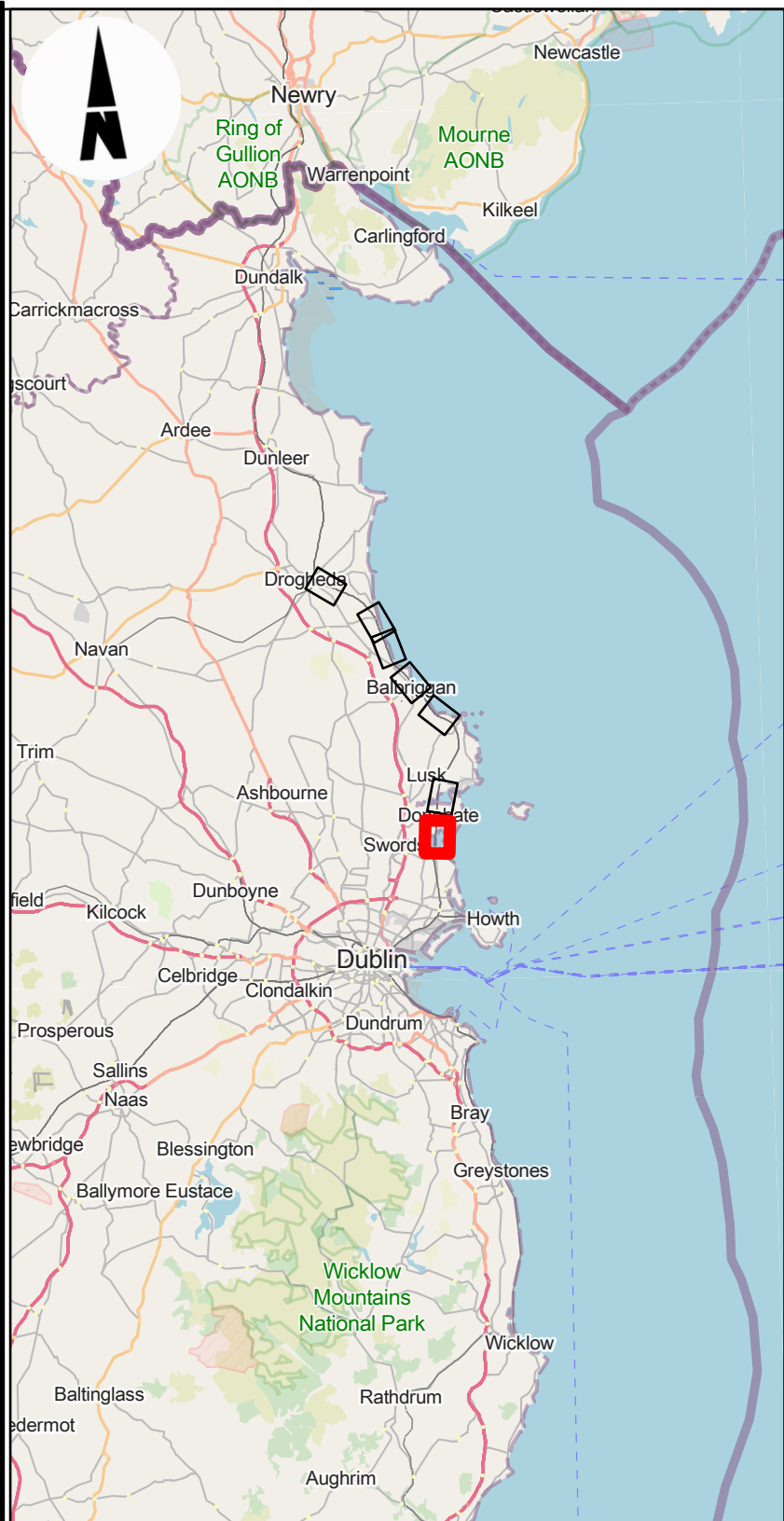
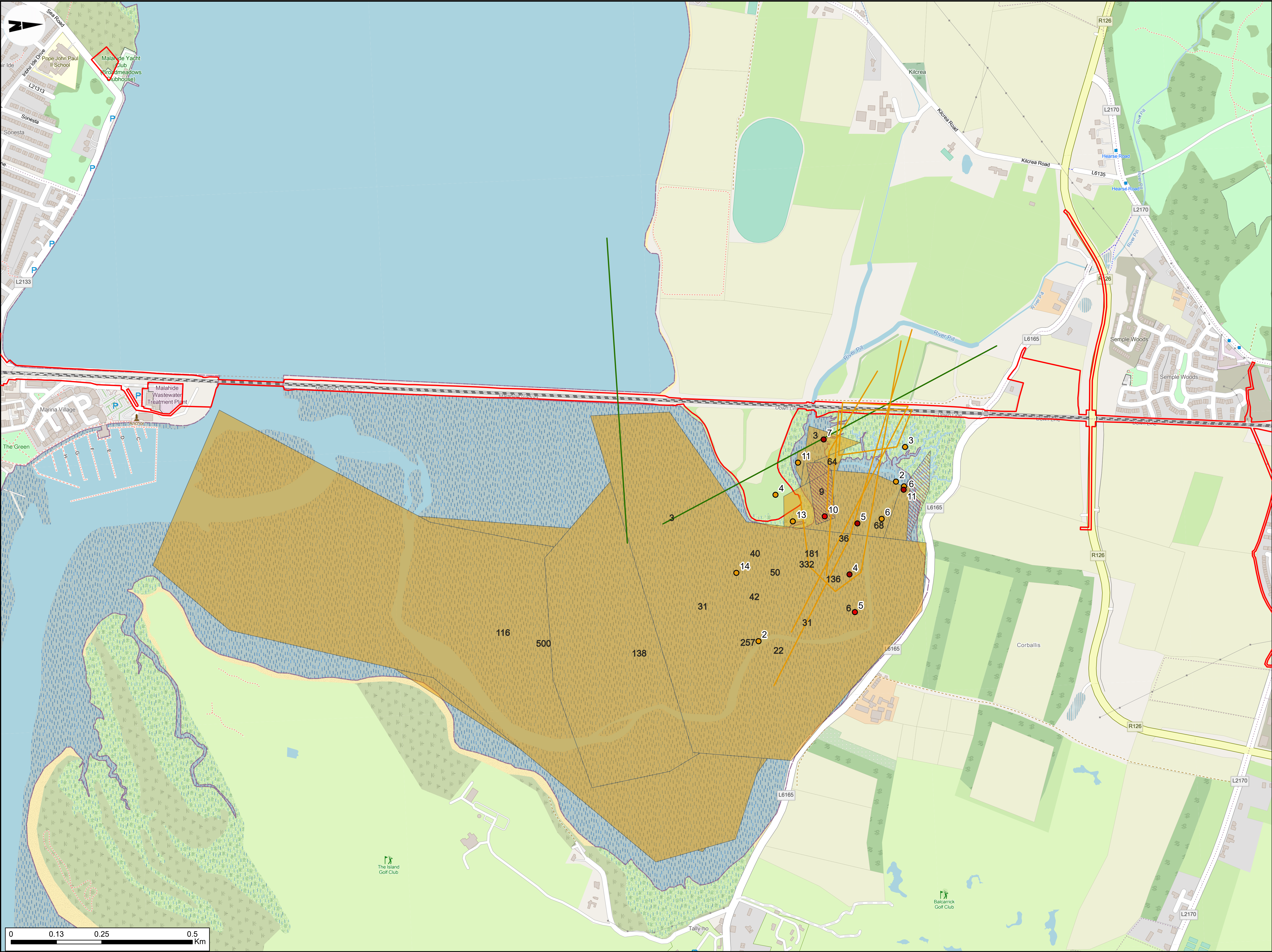
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**Project Title**  
**DART+ COASTAL NORTH**

**Drawing Title**  
**BIODIVERSITY**  
**FIGURE 6: WINTERING BIRD SURVEY**  
**SURVEY AREA 6**

Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200149	69 of 85	S4	P02





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - RINGED PLOVER
    - SHELDUCK
    - SHOVELER
  - FLOCK COUNT AREAS
    - SHELDUCK
    - SHOVELER
  - FLIGHT LINES (HEIGHT)
    - SHELDUCK: 0-10M
    - SHELDUCK: >10M

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**DART+**  
Coastal North

**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

**Tionscadal Éireann**  
Project Ireland  
2040

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

**Irish Rail**

Date: 07/09/2023

Scale: 1:5000 @ A1  
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Project Code: D+WP56

Originator Code: ARP

Client: **Irish Rail**

Engineering Designer: **ARUP**

Drawn: DM	Checked: SQ	Approved: COD
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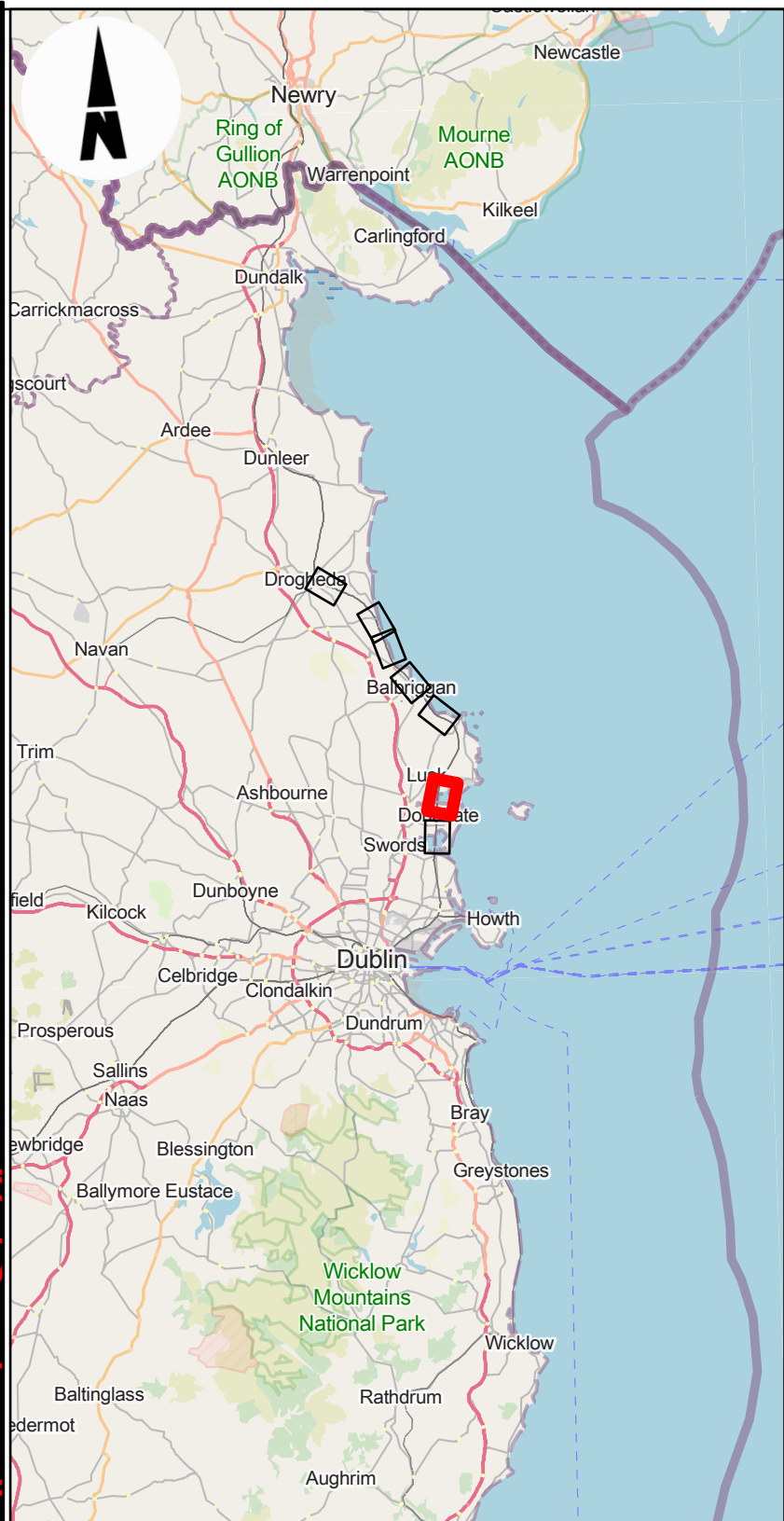
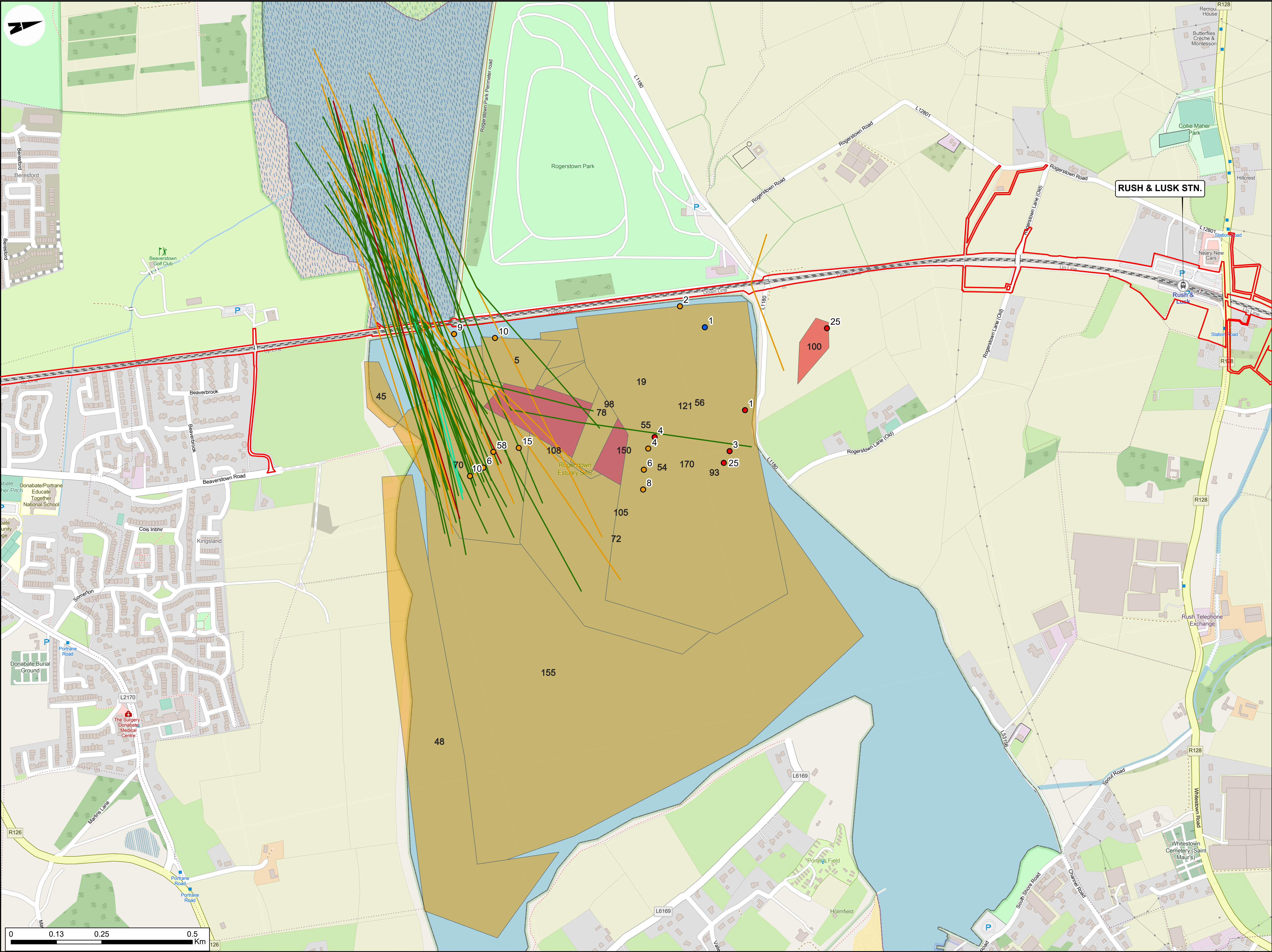
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Project Title: **DART+ COASTAL NORTH**

Drawing Title: **BIODIVERSITY  
FIGURE 6: WINTERING BIRD SURVEY  
SURVEY AREA 1**

Drawing File Name: D+WP56-ARP-ZZ-LL-DR-EVBD-200150	Sheet Number: 70 of 85	Status: S4	Rev: P02
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- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - RINGED PLOVER
  - SANDERLING
  - SHELDUCK
  - FLOCK COUNT AREAS**
  - RINGED PLOVER
  - SHELDUCK
  - FLIGHT LINES (HEIGHT)**
  - SHELDUCK: 0-10M
  - SHELDUCK: >10M
  - SHOVELER: 0-10M
  - SHOVELER: >10M

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Tionscadal Éireann  
Project Ireland  
2040

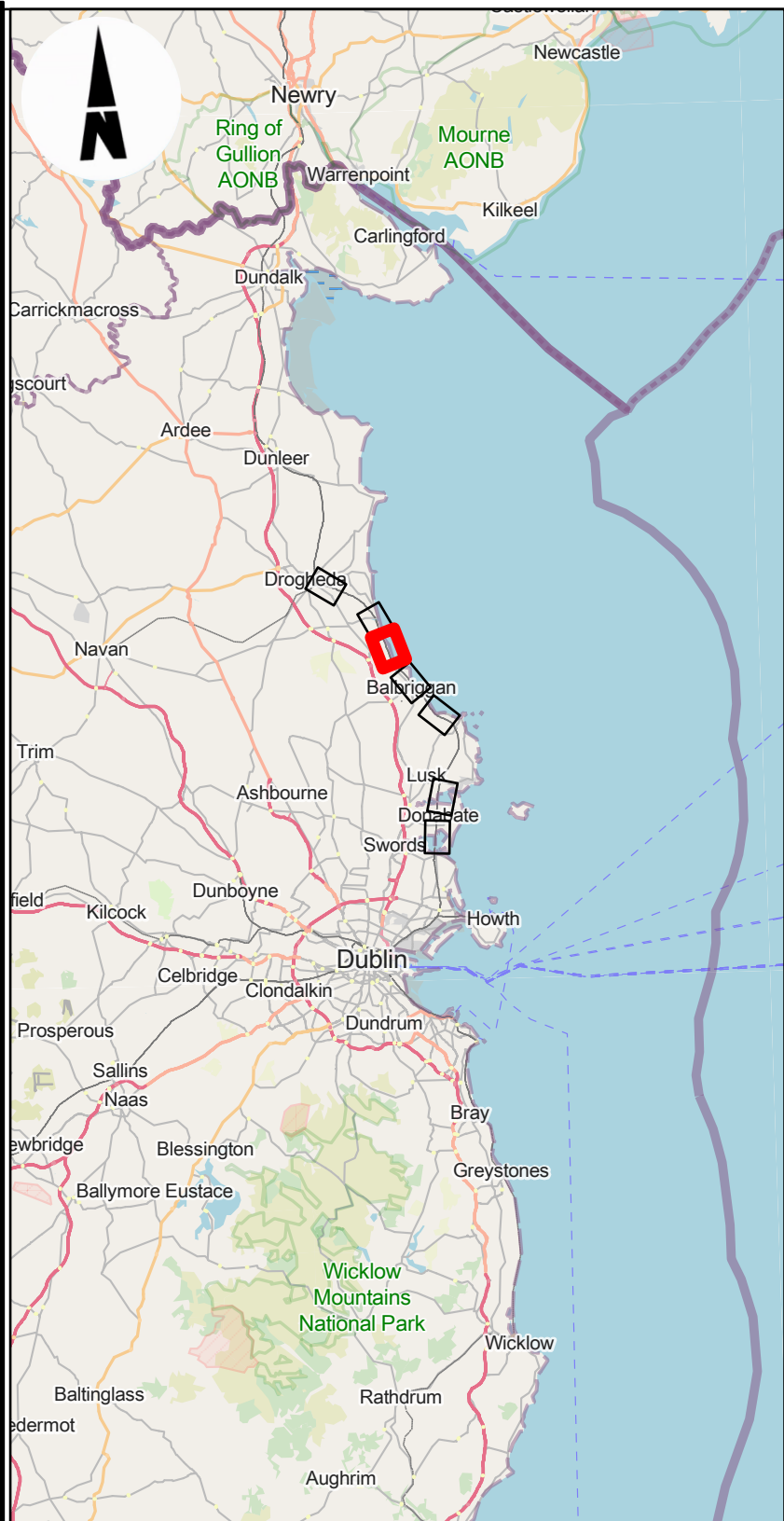
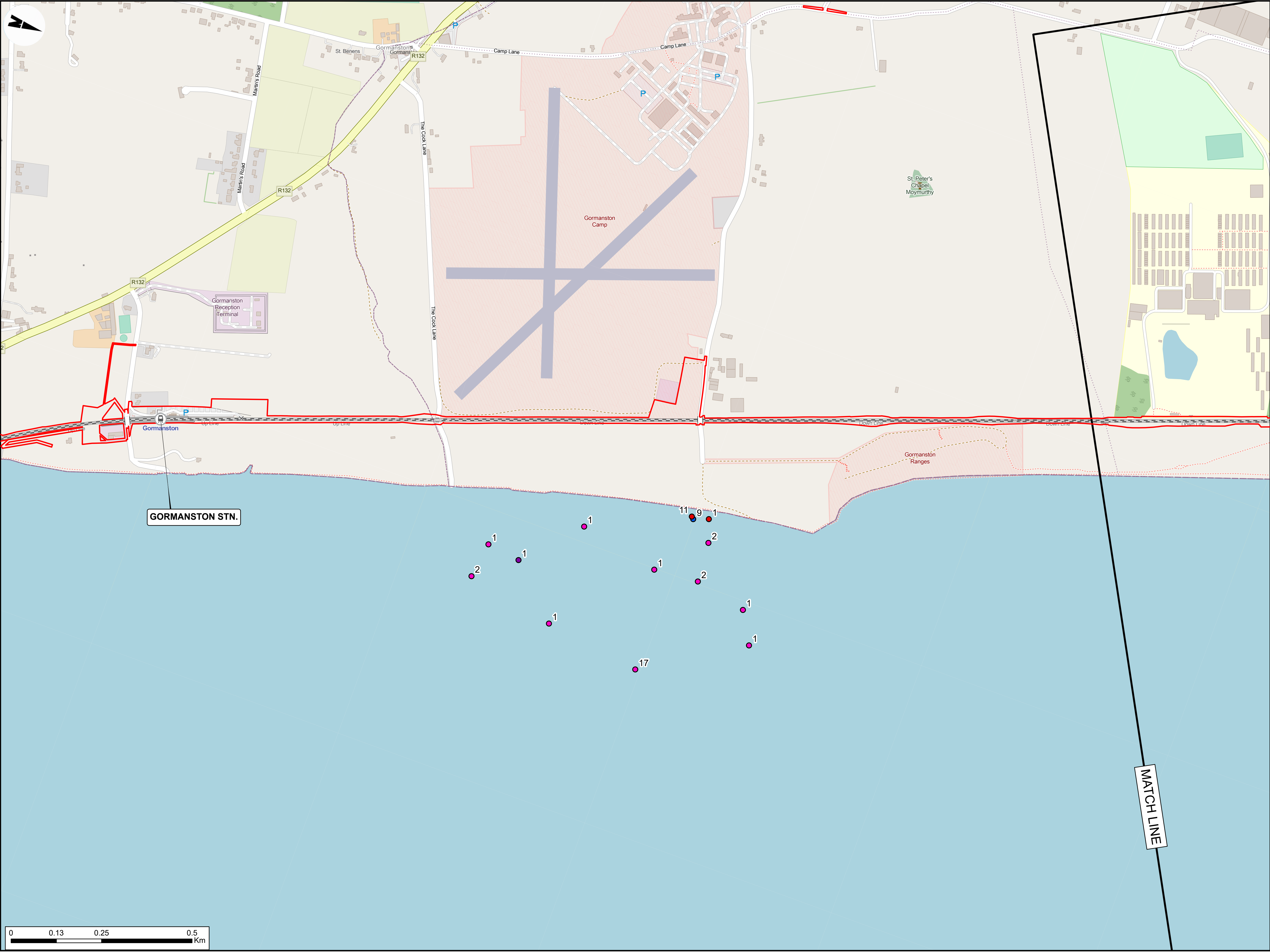
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Date	07/09/2023
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Originator Code	ARP

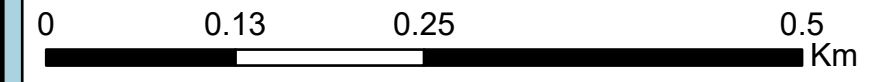
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Drawn	DM	Checked
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Approved	COD	
QMS Code		
279933-00		

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 2			
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200151	F1 of 85	S4	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - RED-THROATED DIVER
  - RINGED PLOVER
  - SANDERLING
  - SHAG





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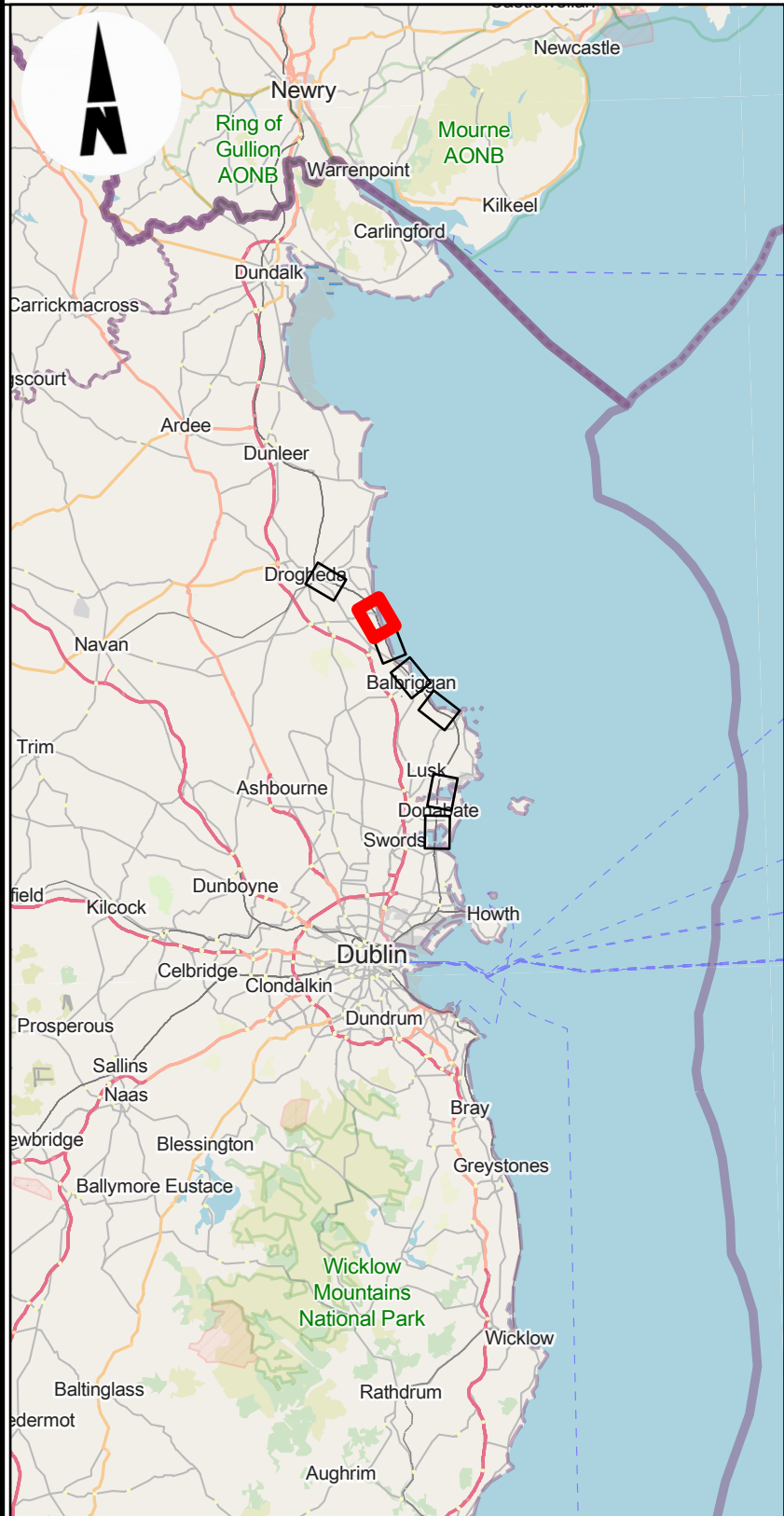
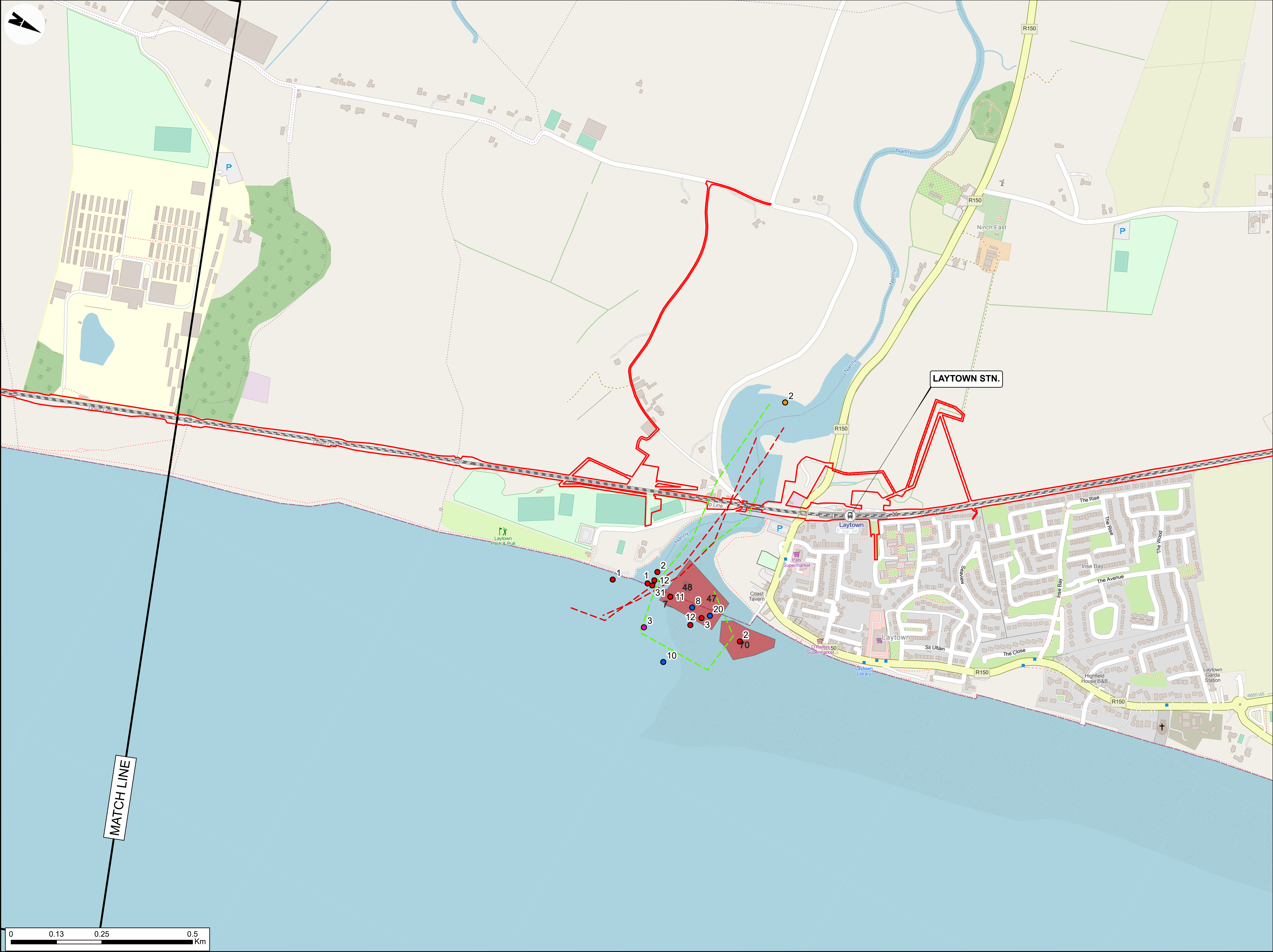
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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer			Project Title				
					DART+ COASTAL NORTH				
Date		Scale	Drawn	Checked	Approved	Drawing Title			
07/09/2023		1:5000 @ A1 1:10000 @ A3	DM	SQ	COD	BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5			
Project Code		Originator Code	QMS Code		Drawing File Name		Sheet Number	Status	Rev
D+WP56		ARP	279933-00		D+WP56-ARP-ZZ-NL-DR-EVBD-200152		72 of 85	S4	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - RED-THROATED DIVER
  - RINGED PLOVER
  - SANDERLING
  - SHELDUCK
  - FLOCK COUNT AREAS**
  - RINGED PLOVER
  - FLIGHT LINES (HEIGHT)**
  - RINGED PLOVER: 0-10M
  - RINGED PLOVER: >10M

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2. BIRD COUNTS AT EACH POINT OR WITHIN EACH AREA DISPLAYED AS LABELS.  
3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.

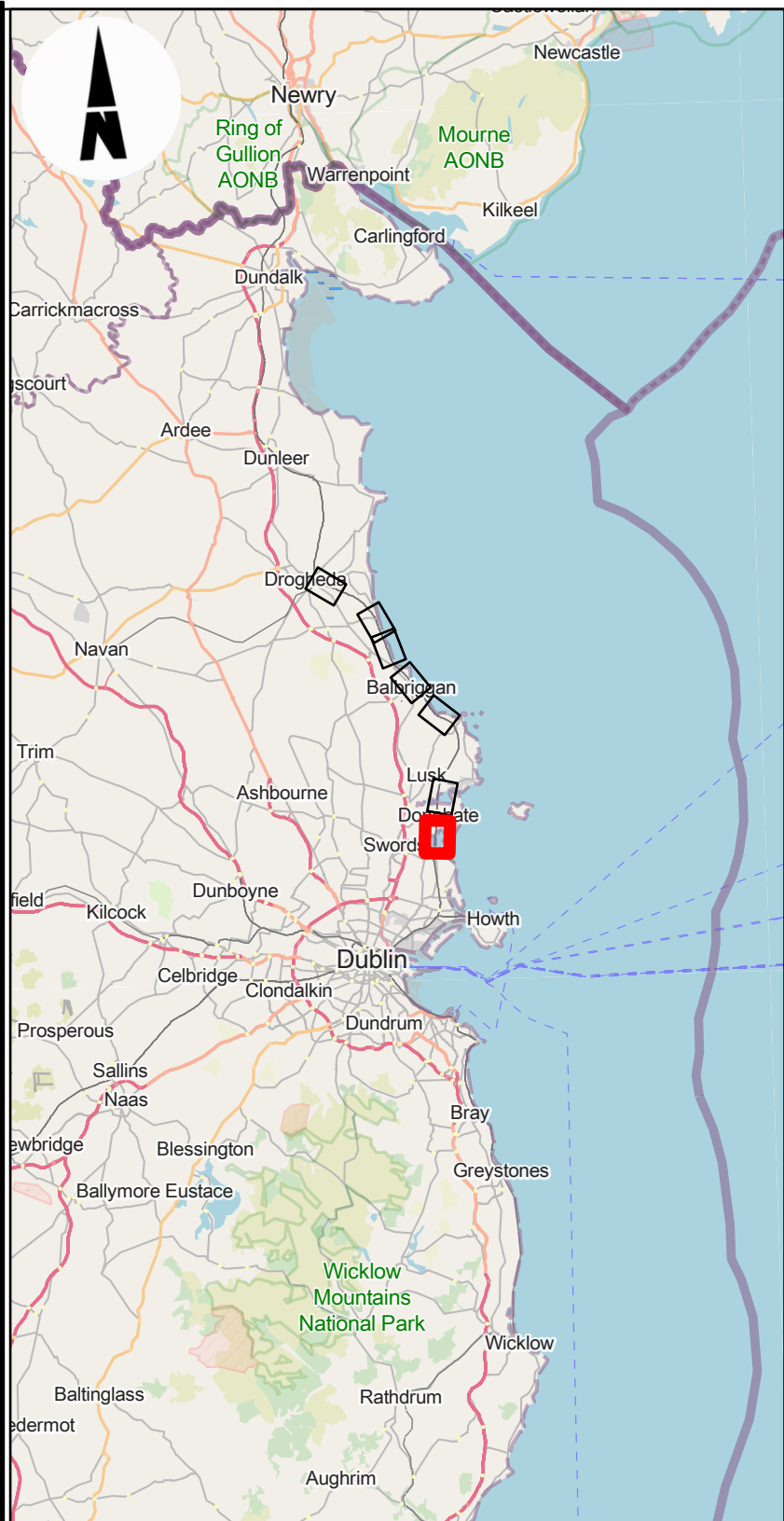
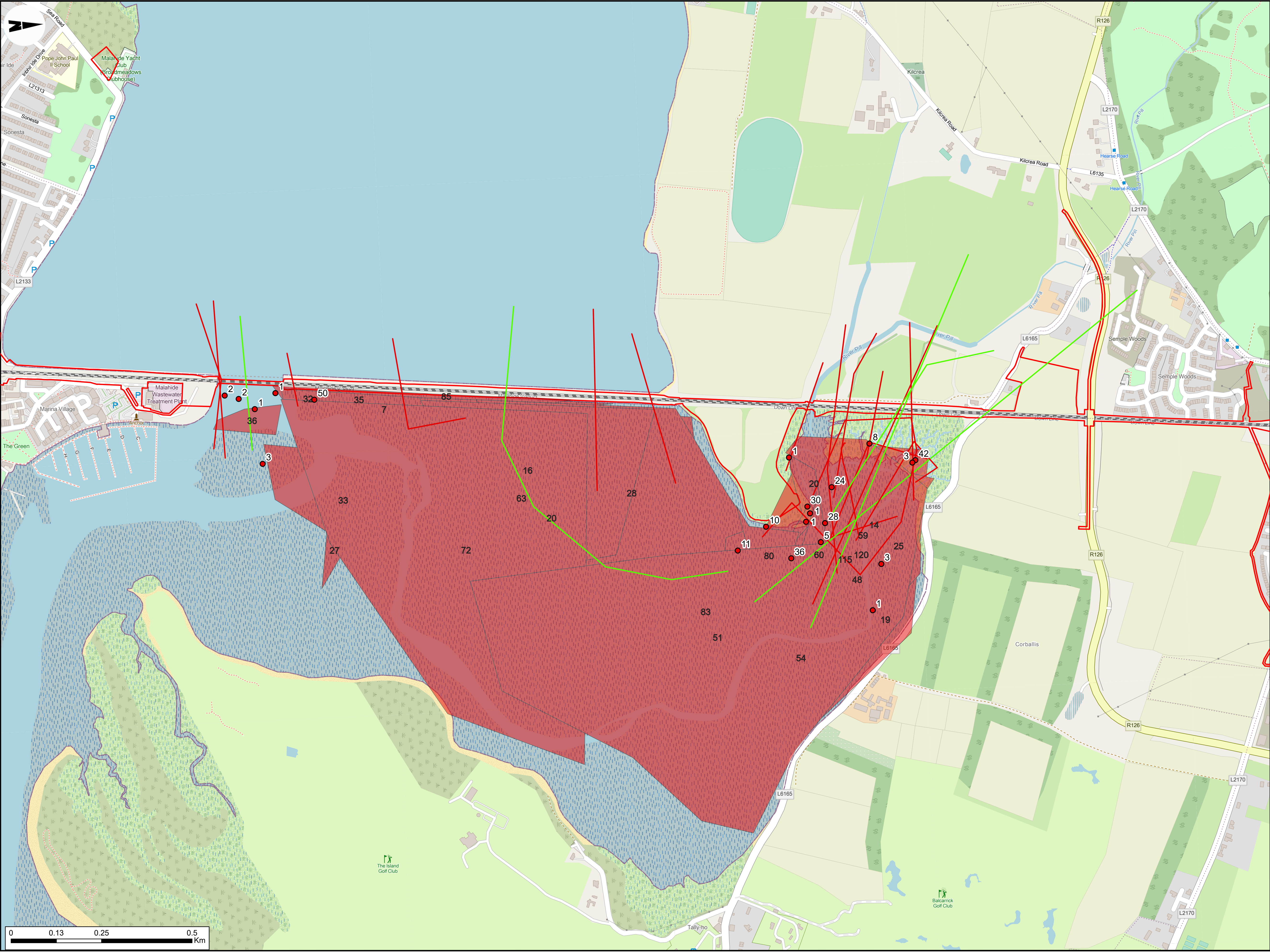


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client 		Engineering Designer 		
Date 07/09/2023	Scale 1:5000 @ A1 1:10000 @ A3	Drawn DM	Checked SQ	Approved COD
Project Code D+WP56	Originator Code ARP	QMS Code 279933-00		

Project Title <b>DART+ COASTAL NORTH</b>				
Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6</b>				
Drawing File Name D+WP56-ARP-ZZ-LL-DR-EVBD-200153	Sheet Number 73 of 85	Status S4	Rev P02	





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - REDSHANK
  - FLOCK COUNT AREAS
    - REDSHANK
  - FLIGHT LINES (HEIGHT)
    - REDSHANK: 0-10M
    - REDSHANK: >10M

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3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.

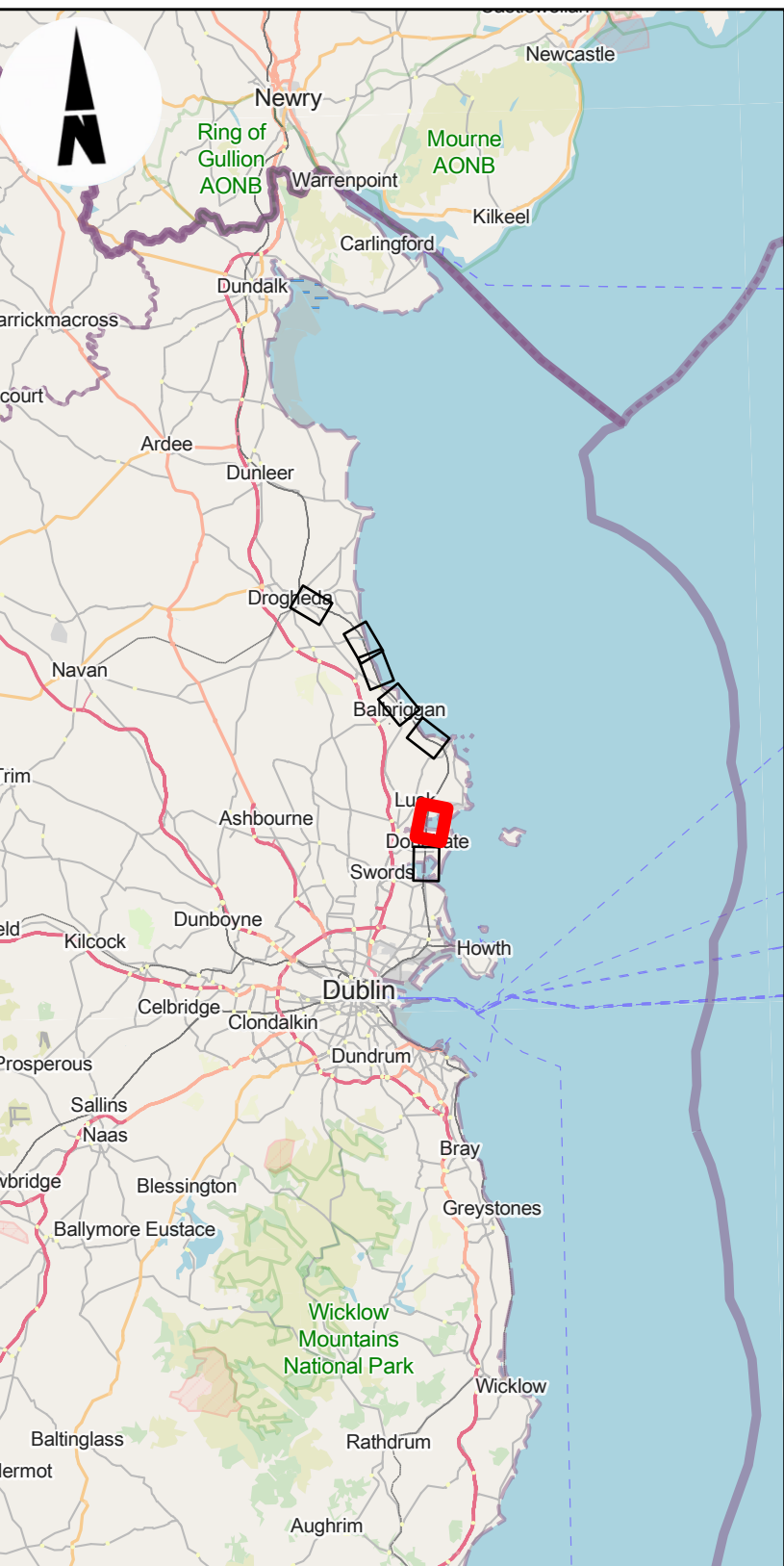
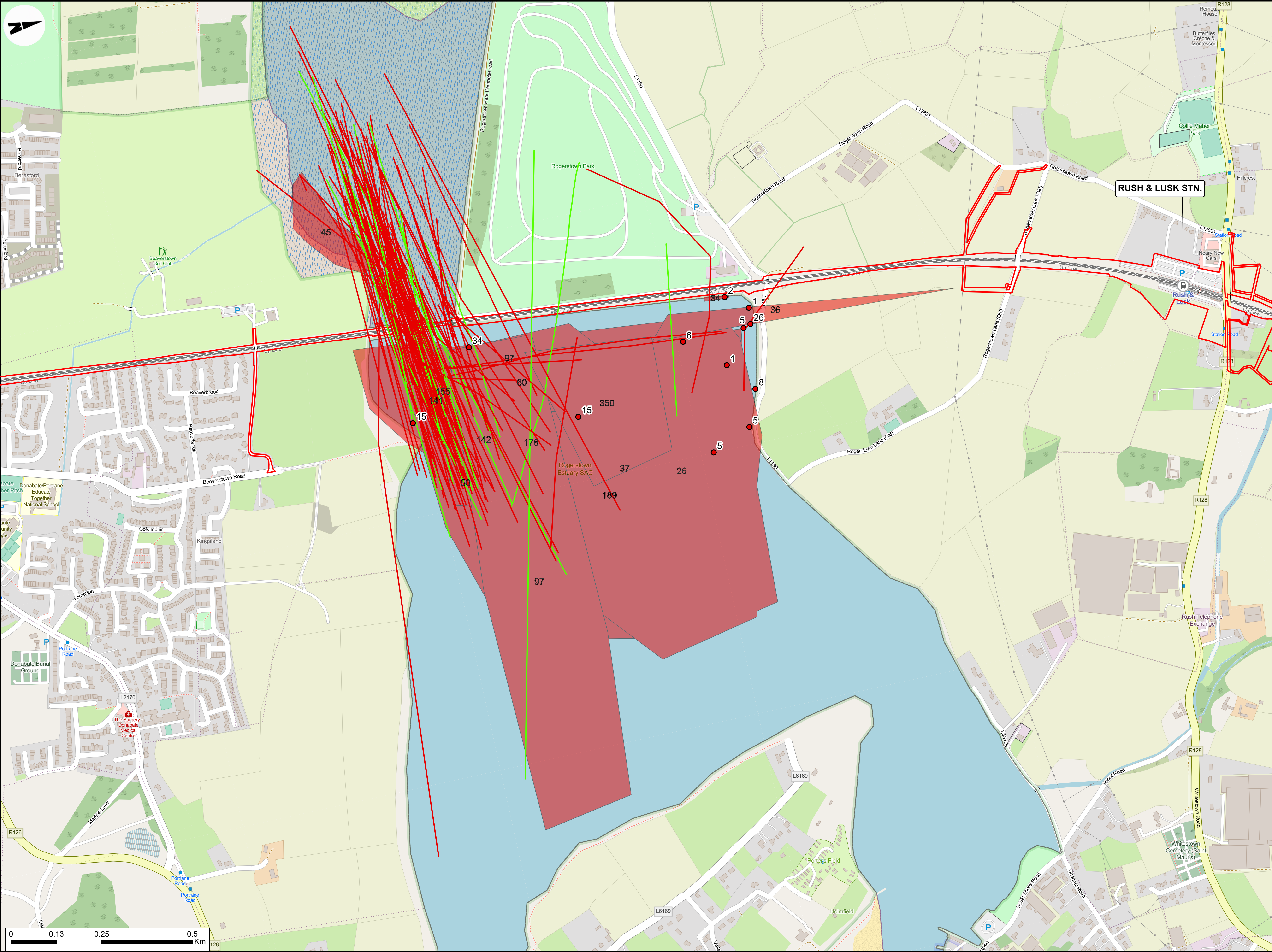


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ARUP	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
		Drawn	DM
		Checked	SQ
		Approved	COD
		QMS Code	279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-LL-DR-EVBD-200154		74 of 85	S4
		Rev	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - REDSHANK
  - FLOCK COUNT AREAS**
  - REDSHANK
  - FLIGHT LINES (HEIGHT)**
  - REDSHANK: 0-10M
  - REDSHANK: >10M

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3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.

**DART+ Coastal North**

**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

**Tionscadal Éireann**  
Project Ireland  
**2040**

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

**Client**  
**Iarnród Éireann**  
**Irish Rail**

Date: 07/09/2023  
Scale: 1:5000 @ A1  
1:10000 @ A3

Project Code: D+WP56  
Originator Code: ARP

**Engineering Designer**  
**ARUP**

DM	SQ	Approved

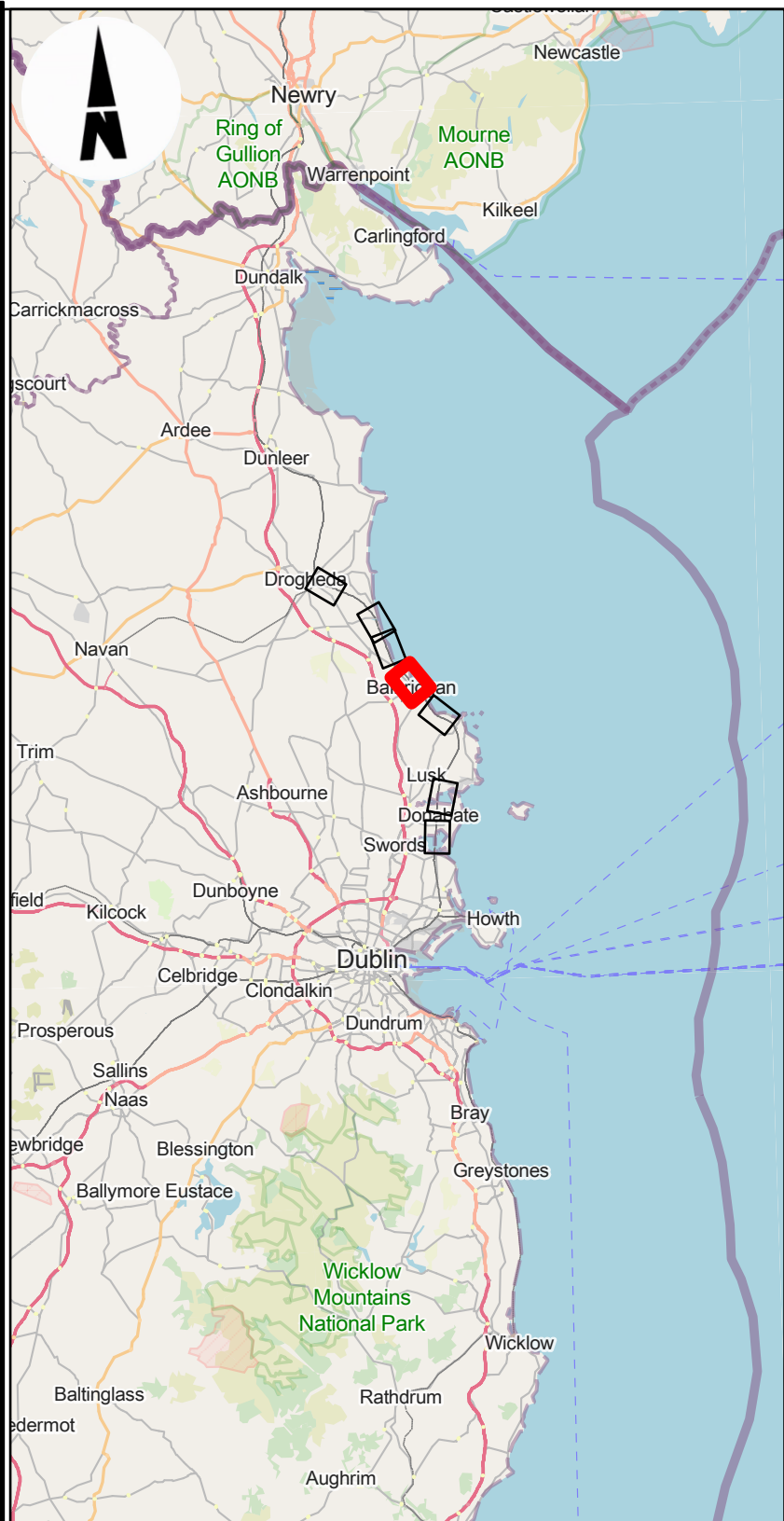
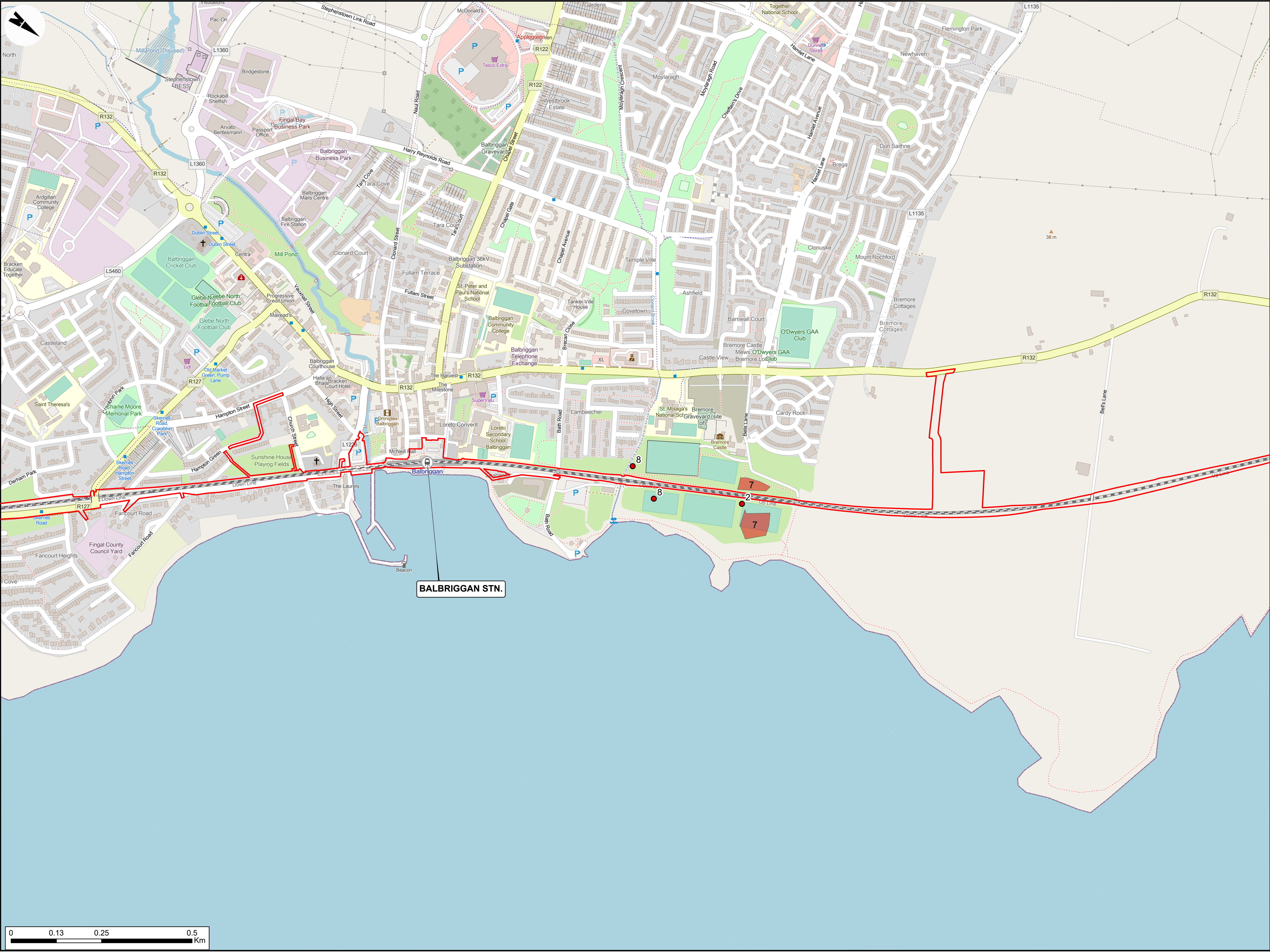
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**Client**  
**DART+ COASTAL NORTH**

**Drawing Title**  
**BIODIVERSITY**  
**FIGURE 6: WINTERING BIRD SURVEY**  
**SURVEY AREA 2**

Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200155	75 of 85	S4	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - REDSHANK
  - FLOCK COUNT AREAS**
  - REDSHANK

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3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.

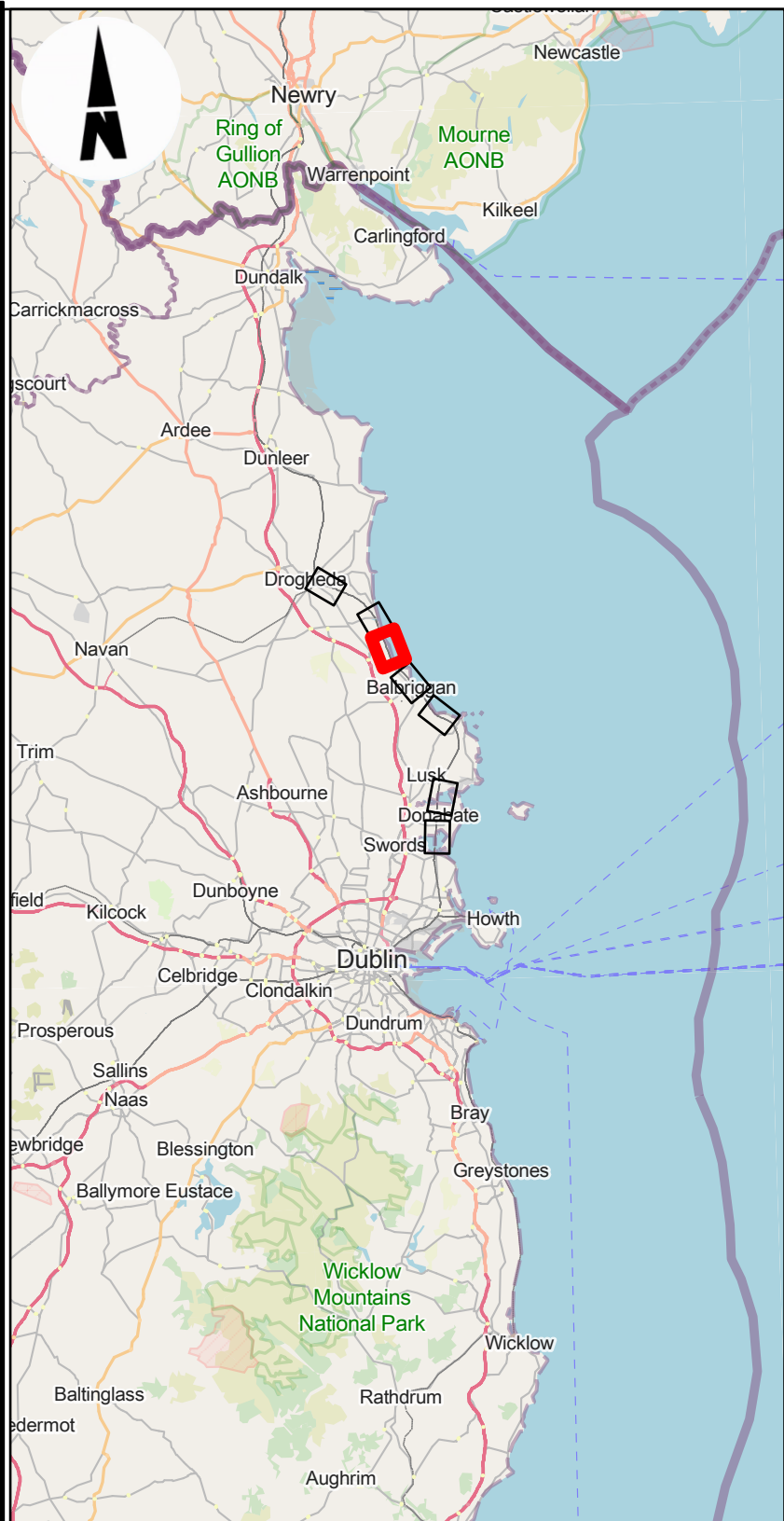
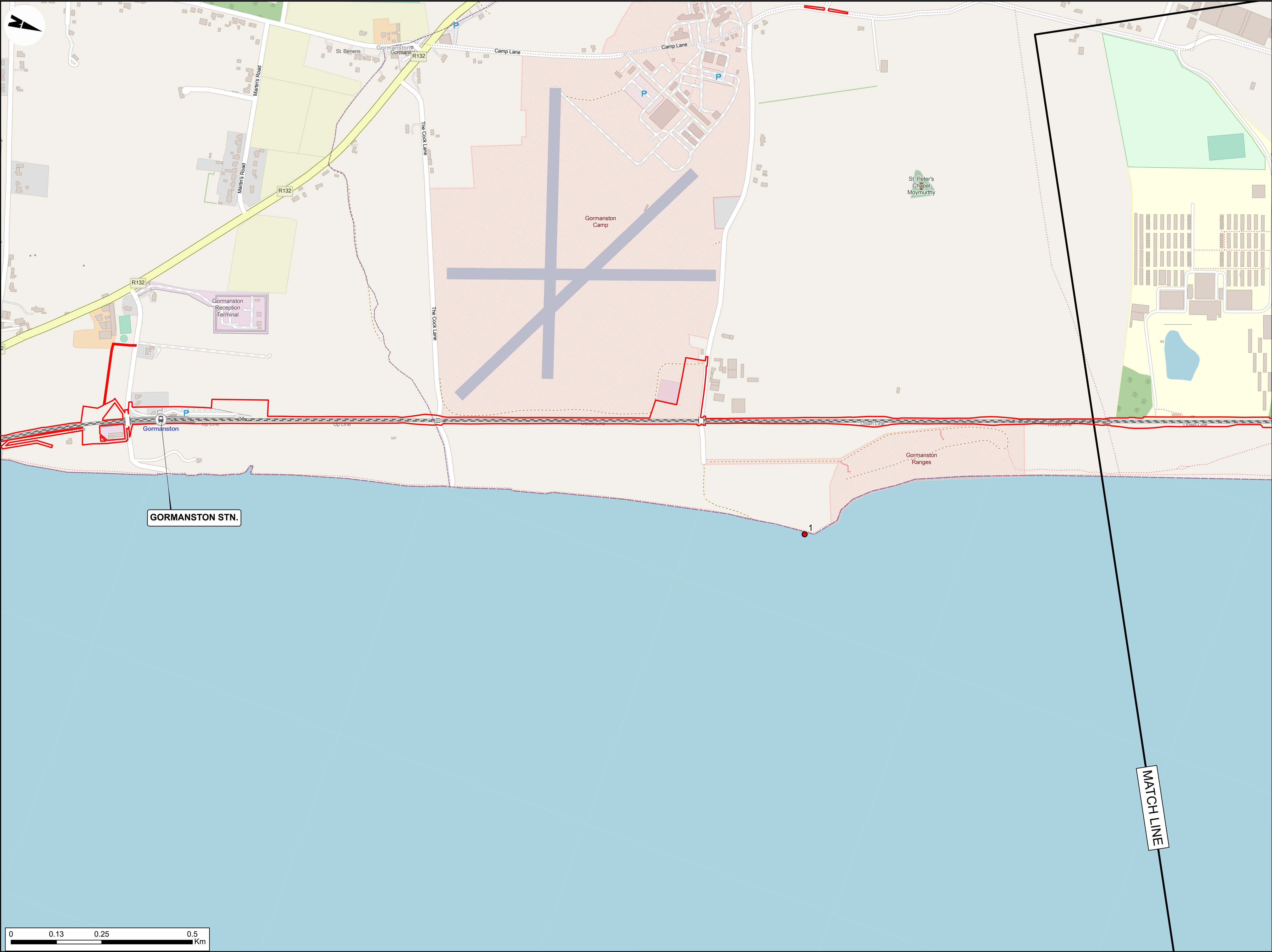


Rev	Date	Dm	Chkd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
Drawn		Checked	Approved
DM		SQ	COD
QMS Code		279933-00	

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 4			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-LL-DR-EVBD-200156		76 of 85	S4
Rev		P02	





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - REDSHANK

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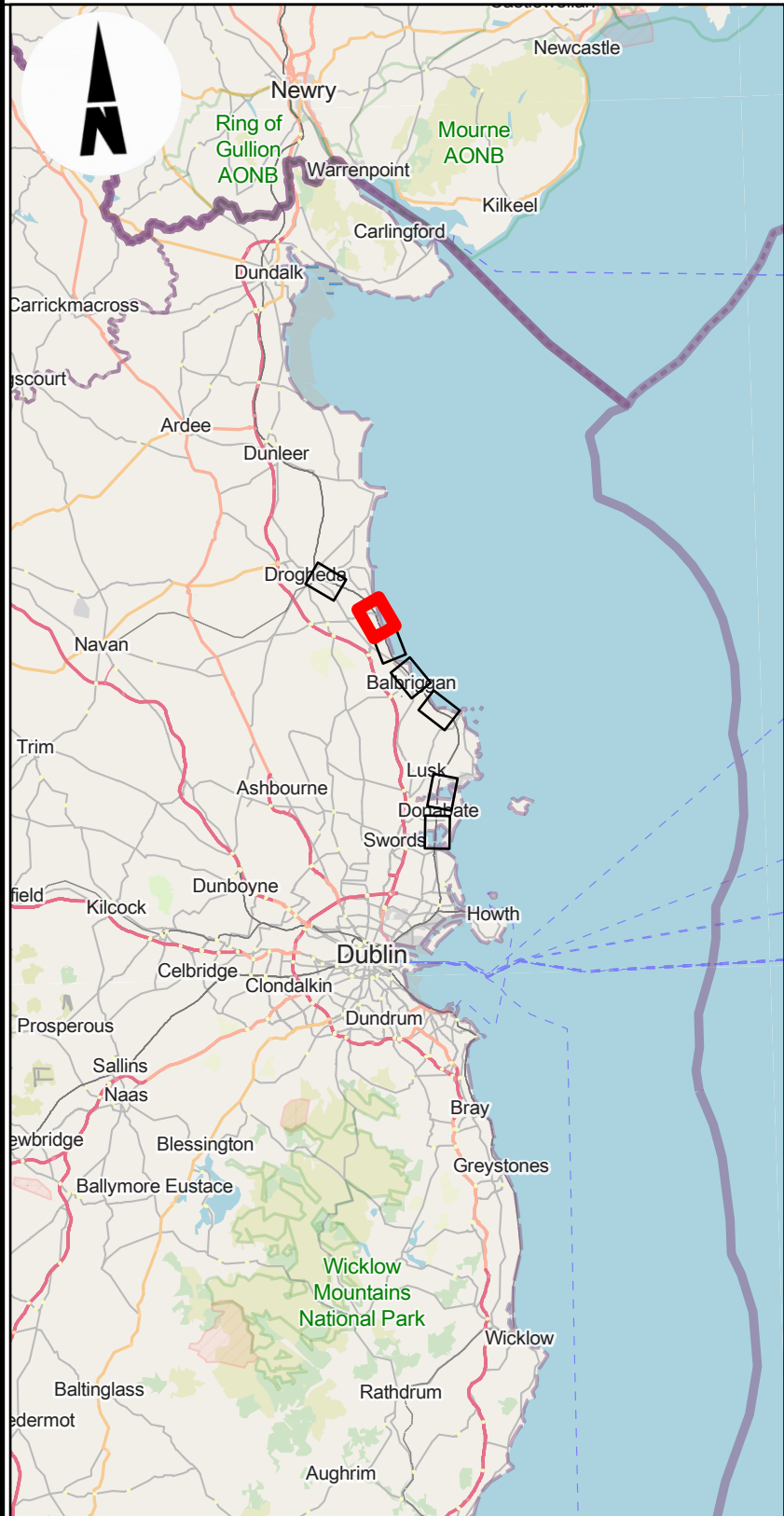
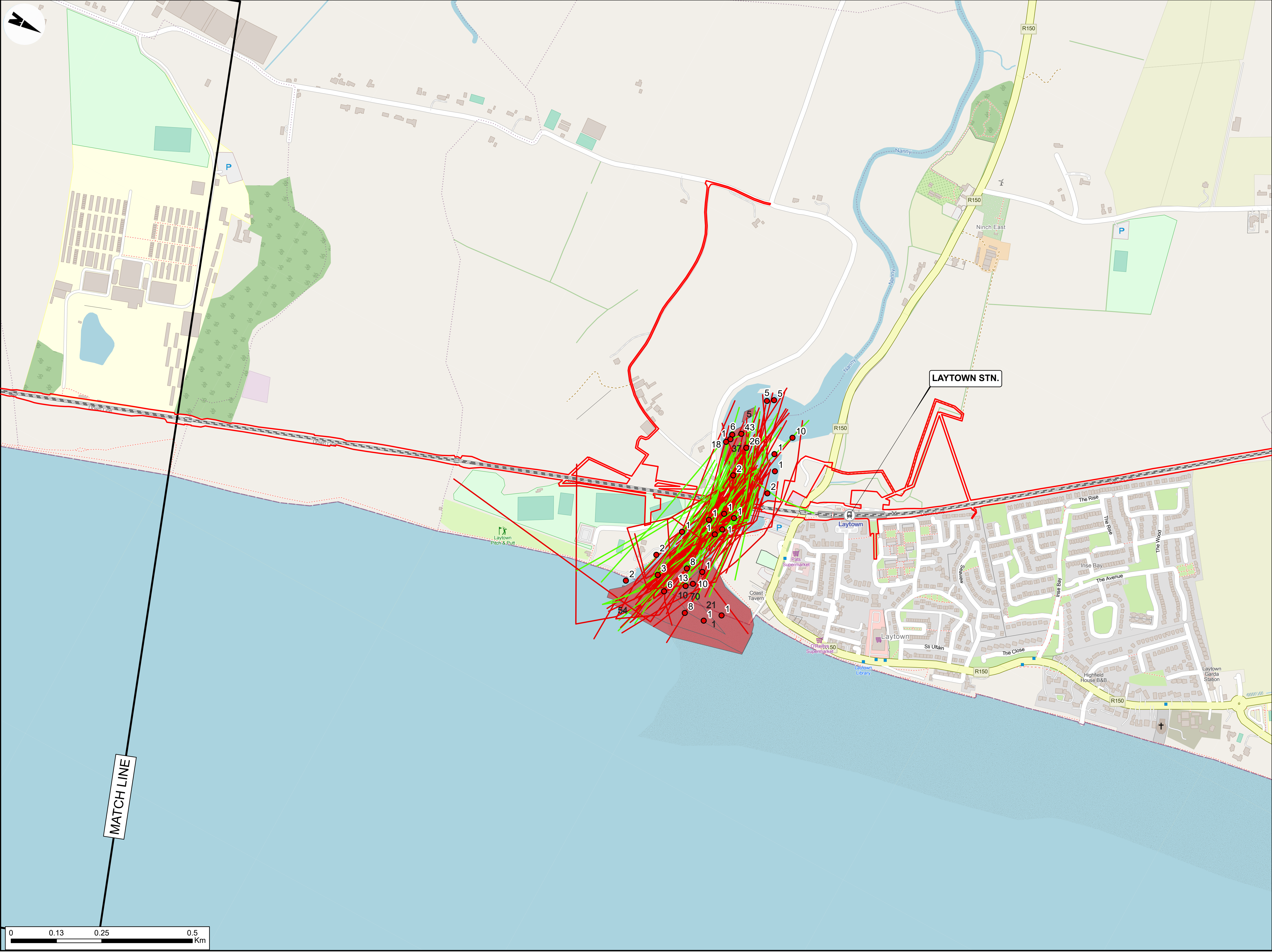
- NOTES**
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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer			Project Title			
<b>larnród Éireann</b> Irish Rail					DART+ COASTAL NORTH			
Date		Scale		Drawn		Drawing Title		
07/09/2023		1:5000 @ A1 1:10000 @ A3		DM		BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5		
Project Code		Originator Code		QMS Code		Drawing File Name		Rev
D+WP56		ARP		279933-00		D+WP56-ARP-ZZ-NL-DR-EVBD-200157		P02
						Sheet Number 77 of 85		Status S4





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - REDSHANK
  - FLOCK COUNT AREAS**
  - REDSHANK
  - FLIGHT LINES (HEIGHT)**
  - REDSHANK: 0-10M
  - REDSHANK: >10M

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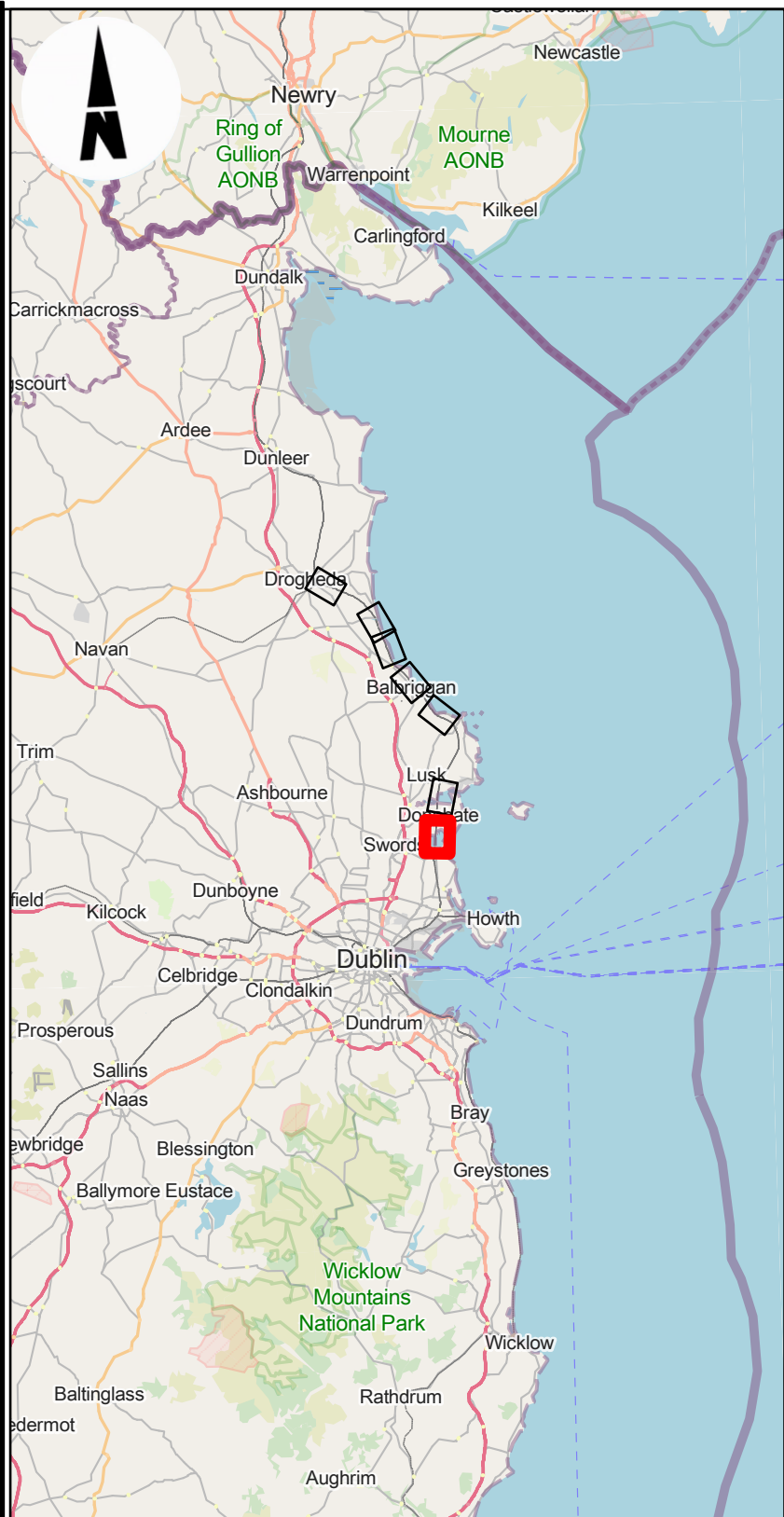
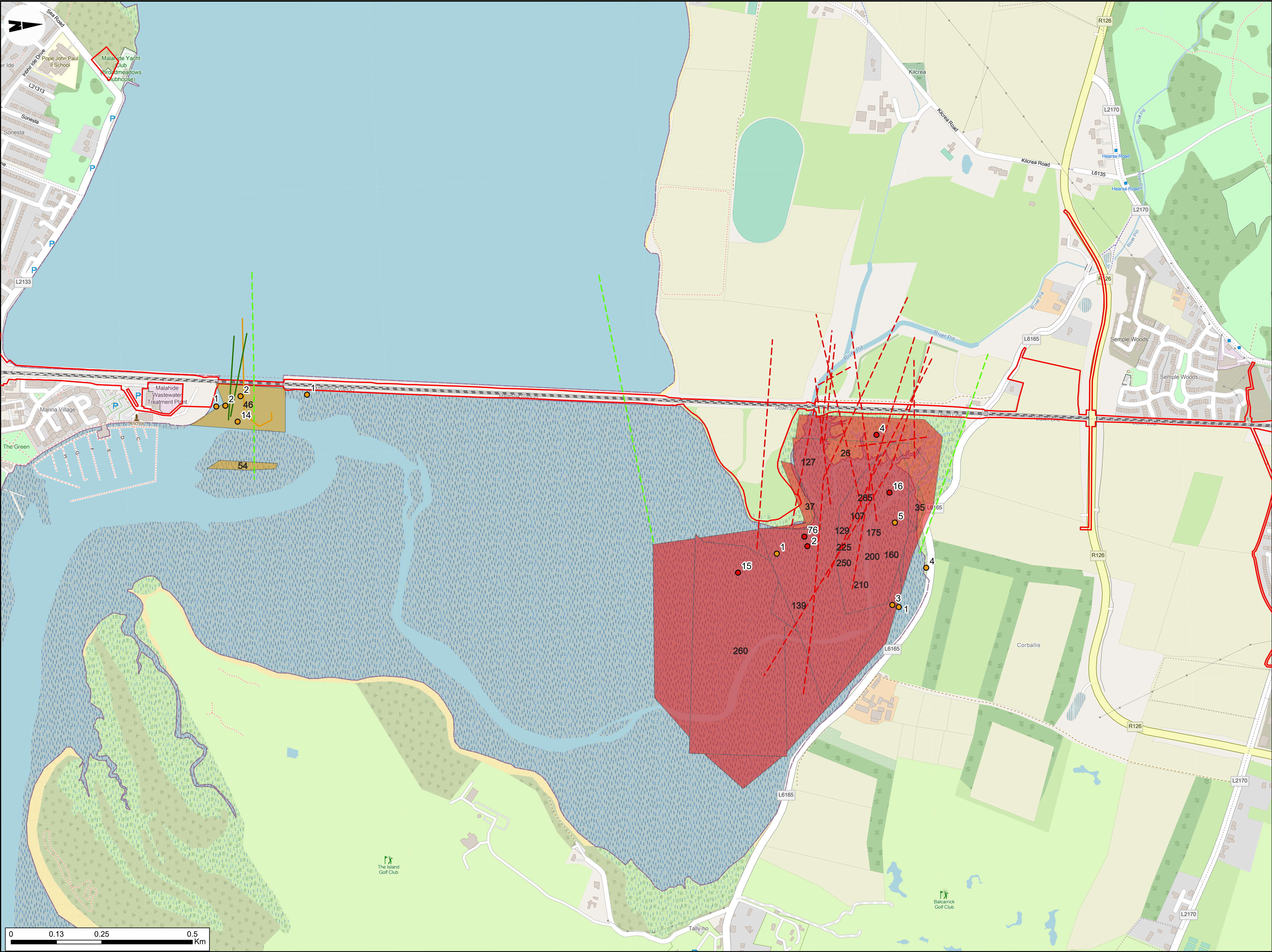


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ARUP	
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP
		QMS Code	279933-00
		Drawn	DM
		Checked	SQ
		Approved	COD

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-ZZ-LL-DR-EVBD-200158		78 of 85	S4
		Rev	P02





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - TEAL
    - TURNSTONE
  - FLOCK COUNT AREAS
    - TEAL
    - TURNSTONE
  - FLIGHT LINES (HEIGHT)
    - TEAL: 0-10M
    - TEAL: >10M
    - TURNSTONE: 0-10M
    - TURNSTONE: >10M

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3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.

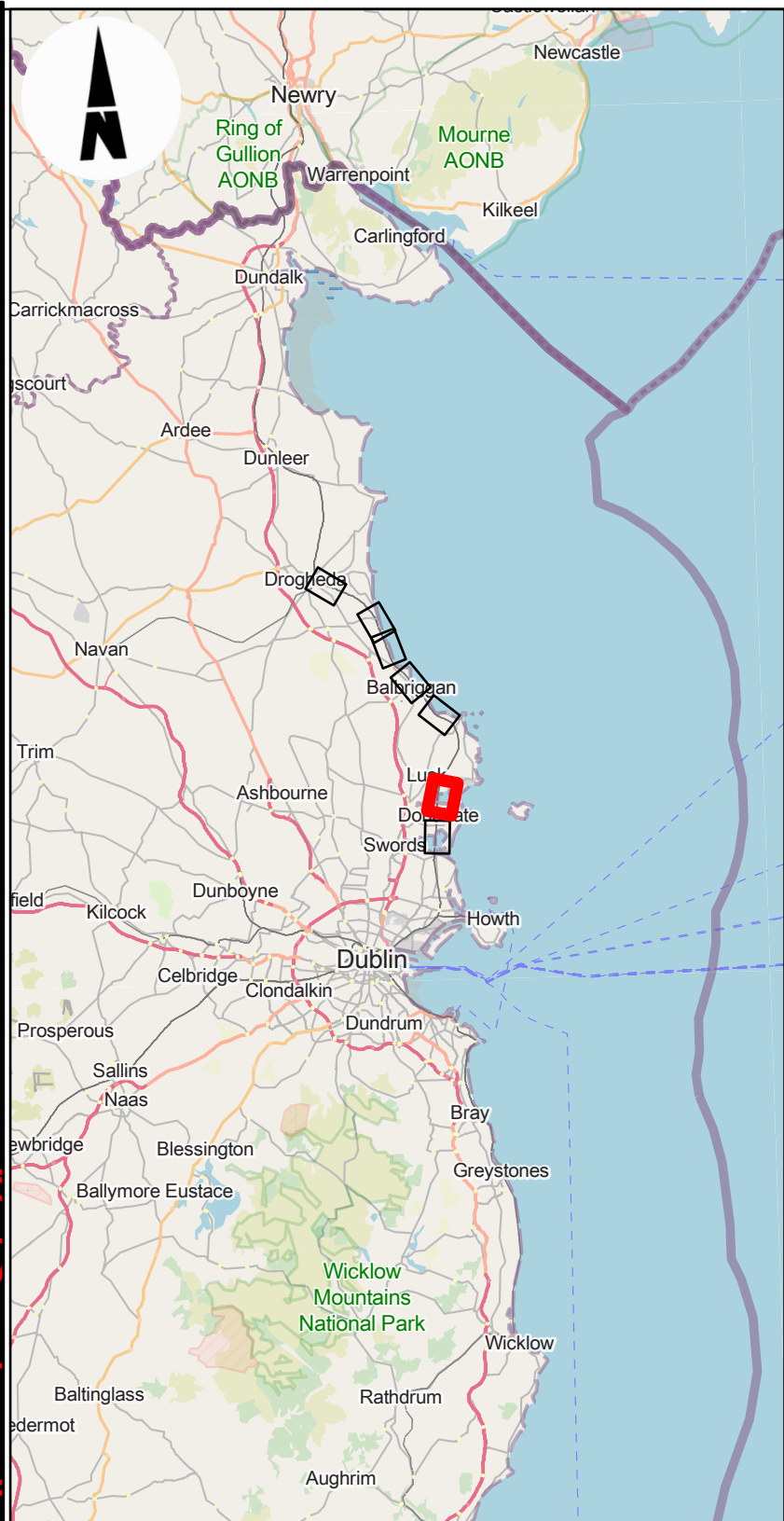
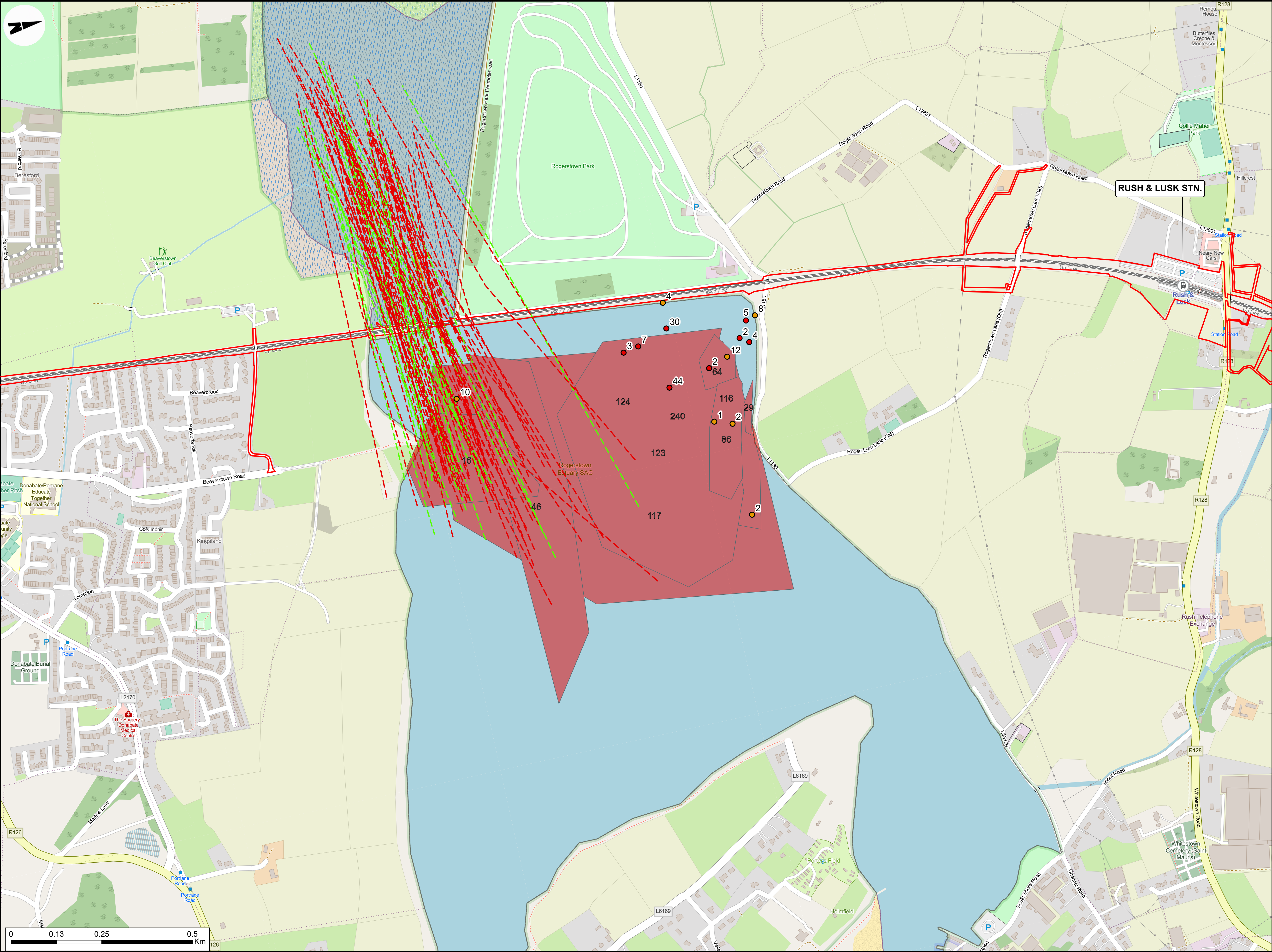


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer		
Iarnród Éireann Irish Rail		ARUP		
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3	Drawn DM Checked SQ Approved COD
Project Code	D+WP56	Originator Code	ARP	QMS Code 279933-00

Project Title				
DART+ COASTAL NORTH				
Drawing Title				
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1				
Drawing File Name	D+WP56-ARP-ZZ-LL-DR-EVBD-200159	Sheet Number	79 of 85	Status S4
Rev	P02			





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - TEAL
  - TURNSTONE
  - FLOCK COUNT AREAS**
  - TEAL
  - FLIGHT LINES (HEIGHT)**
  - TEAL: 0-10M
  - TEAL: >10M
  - TURNSTONE: 0-10M

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**DART+ Coastal North**

**NTA**  
Údarás Náisiúnta Iompair  
National Transport Authority

**Tionscadal Éireann**  
Project Ireland  
**2040**

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

**Client**  
**Iarnród Éireann**  
**Irish Rail**

Date: 07/09/2023  
Scale: 1:5000 @ A1  
1:10000 @ A3

Project Code: D+WP56  
Originator Code: ARP

**Engineering Designer**  
**ARUP**

DM	SQ	Approved

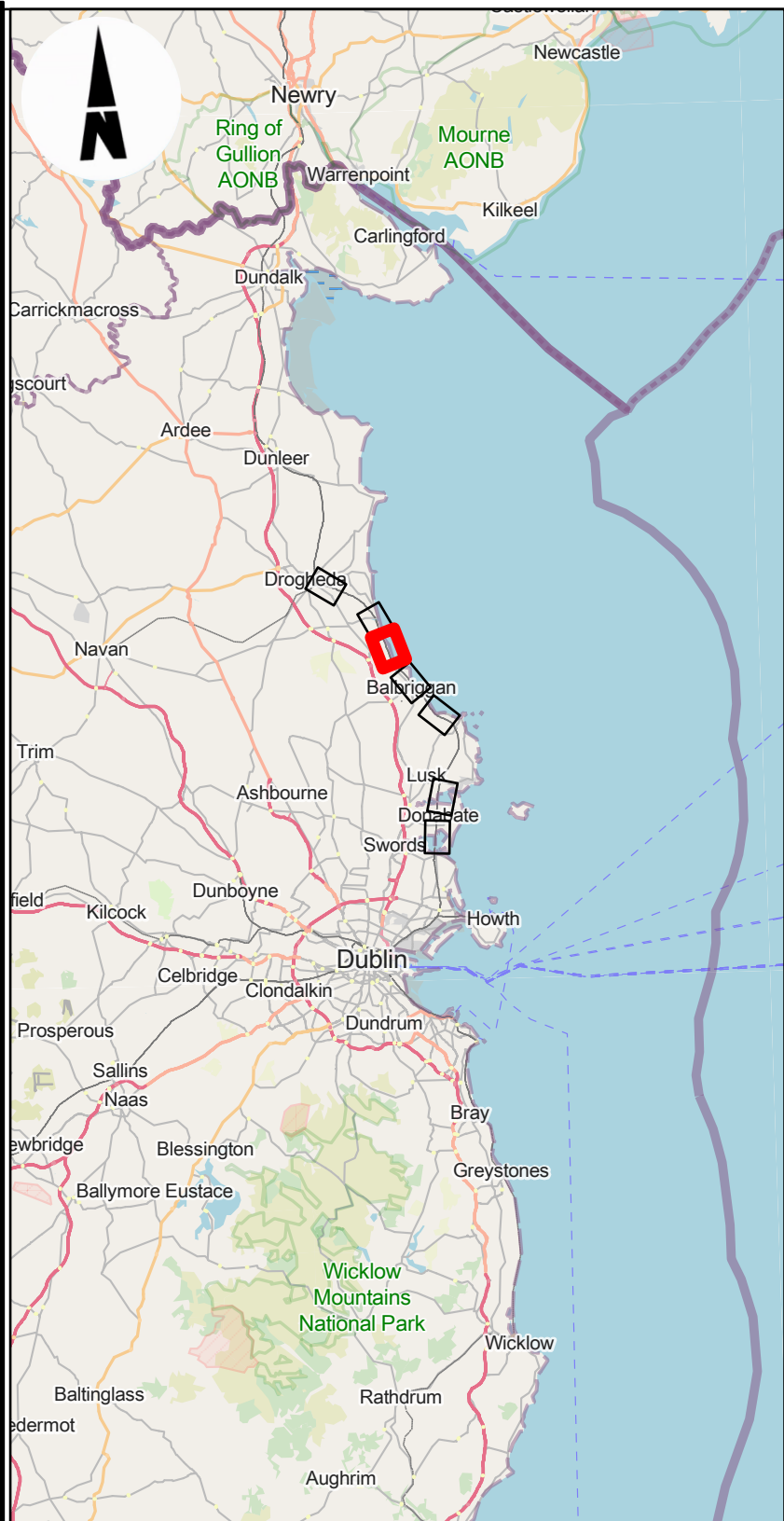
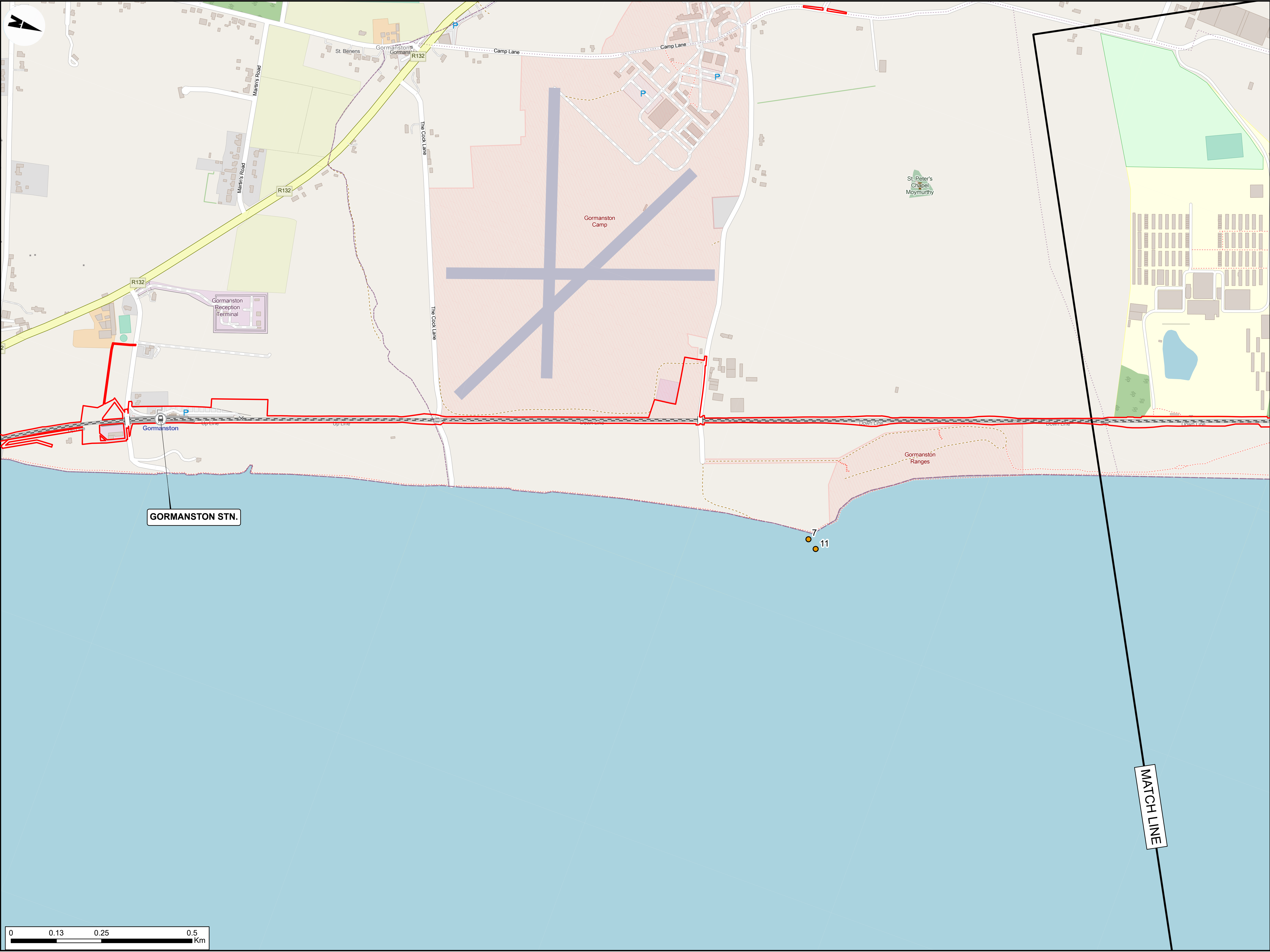
QMS Code: 279933-00

**Project Title**  
**DART+ COASTAL NORTH**

**Drawing Title**  
**BIODIVERSITY**  
**FIGURE 6: WINTERING BIRD SURVEY**  
**SURVEY AREA 2**

Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200160	80 of 85	S4	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - TURNSTONE

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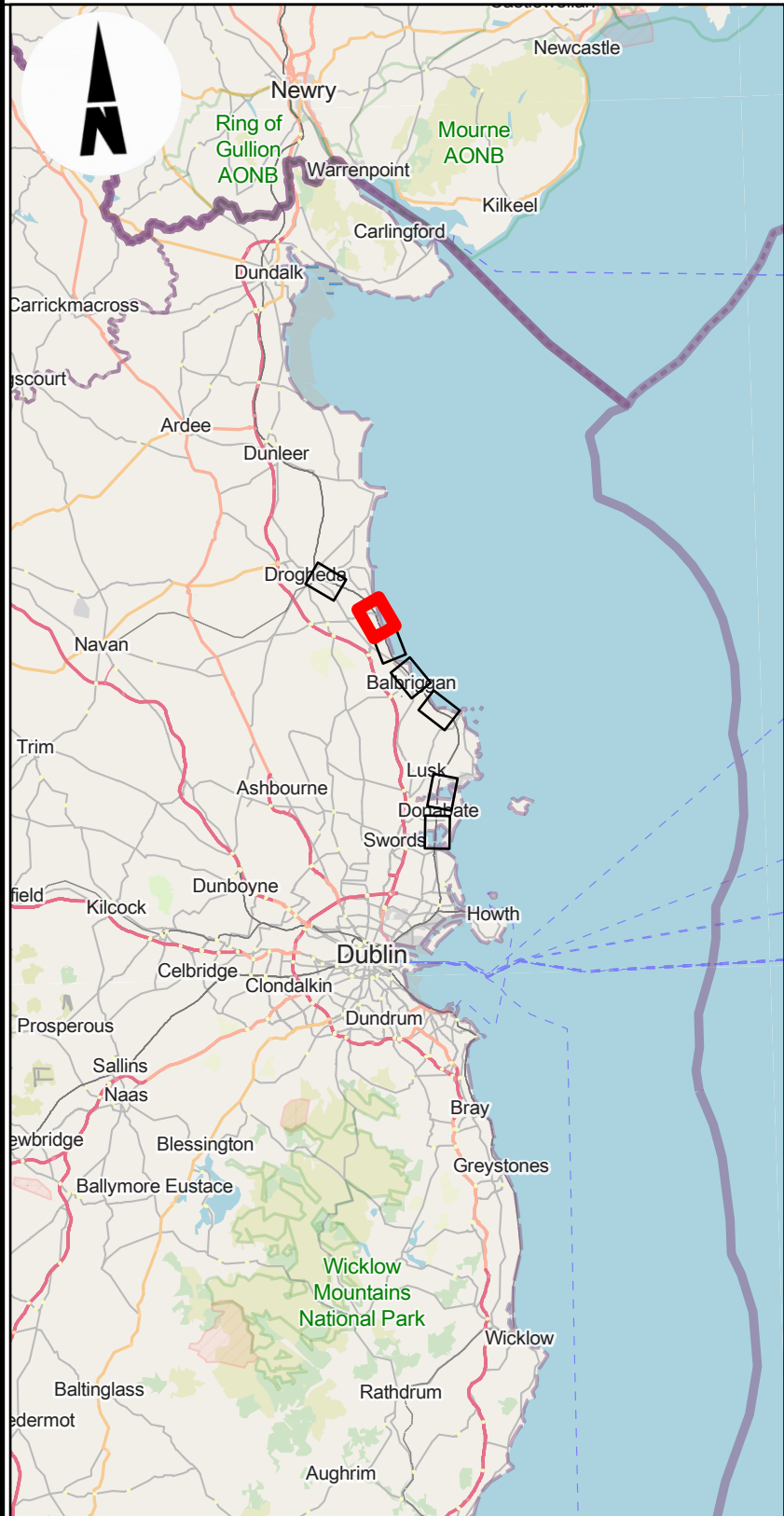
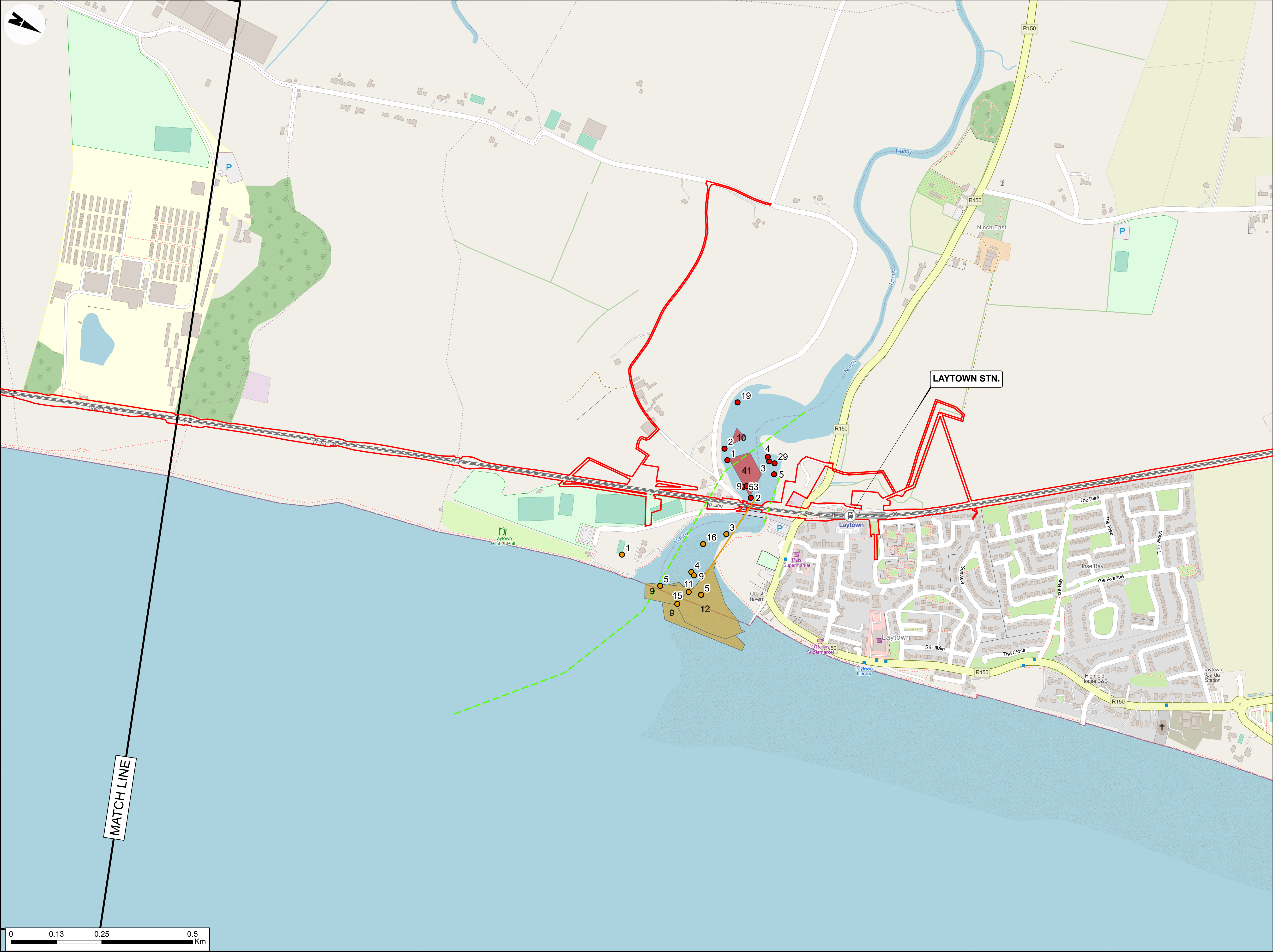


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer		
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3	Drawn DM Checked SQ Approved COD
Project Code	D+WP56	Originator Code	ARP	QMS Code 279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 5			
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-DR-EVBD-200161	81 of 85	S4	P02







- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - TEAL
  - TURNSTONE
  - FLOCK COUNT AREAS**
  - TEAL
  - TURNSTONE
  - FLIGHT LINES (HEIGHT)**
  - TEAL: >10M
  - TURNSTONE: 0-10M

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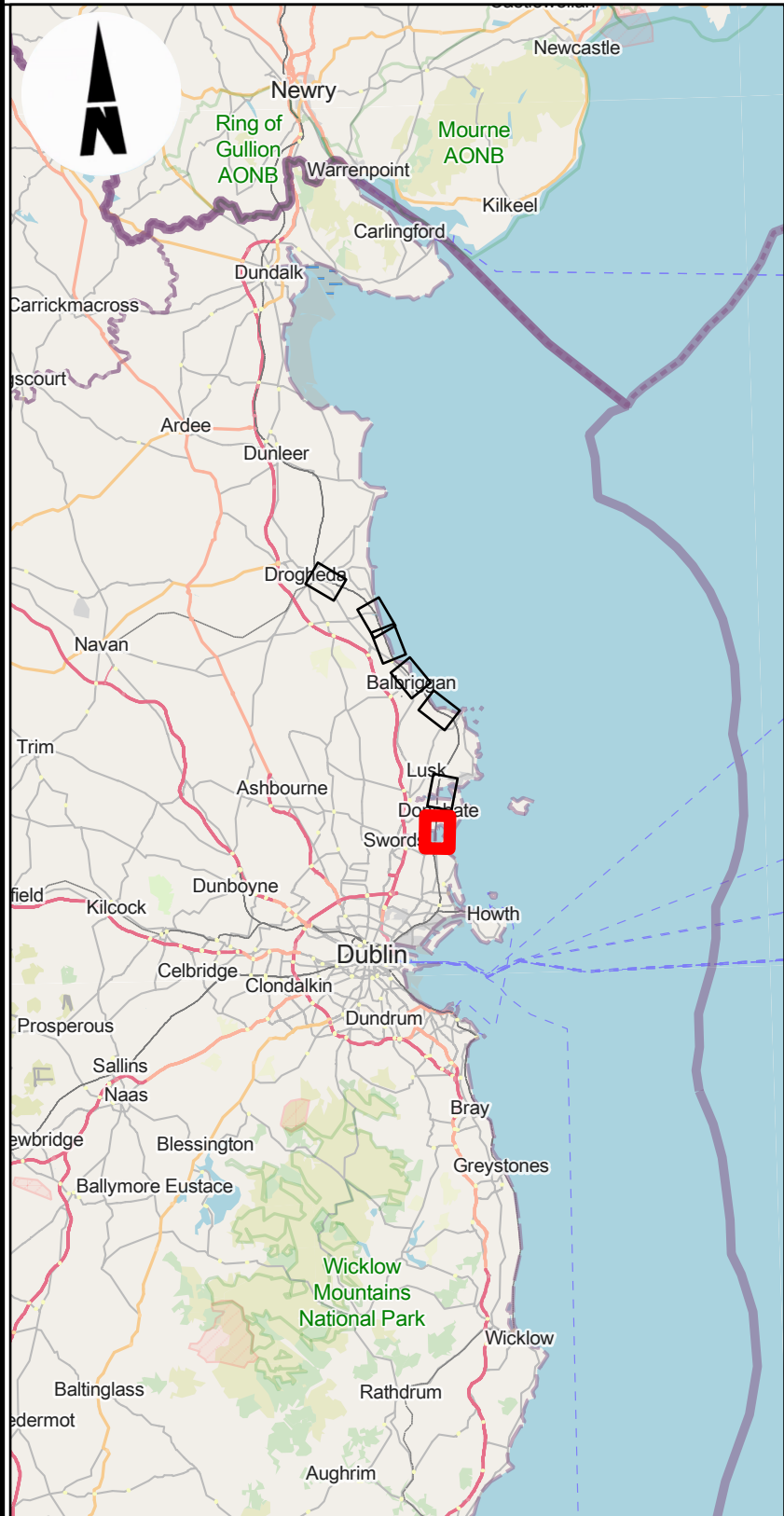
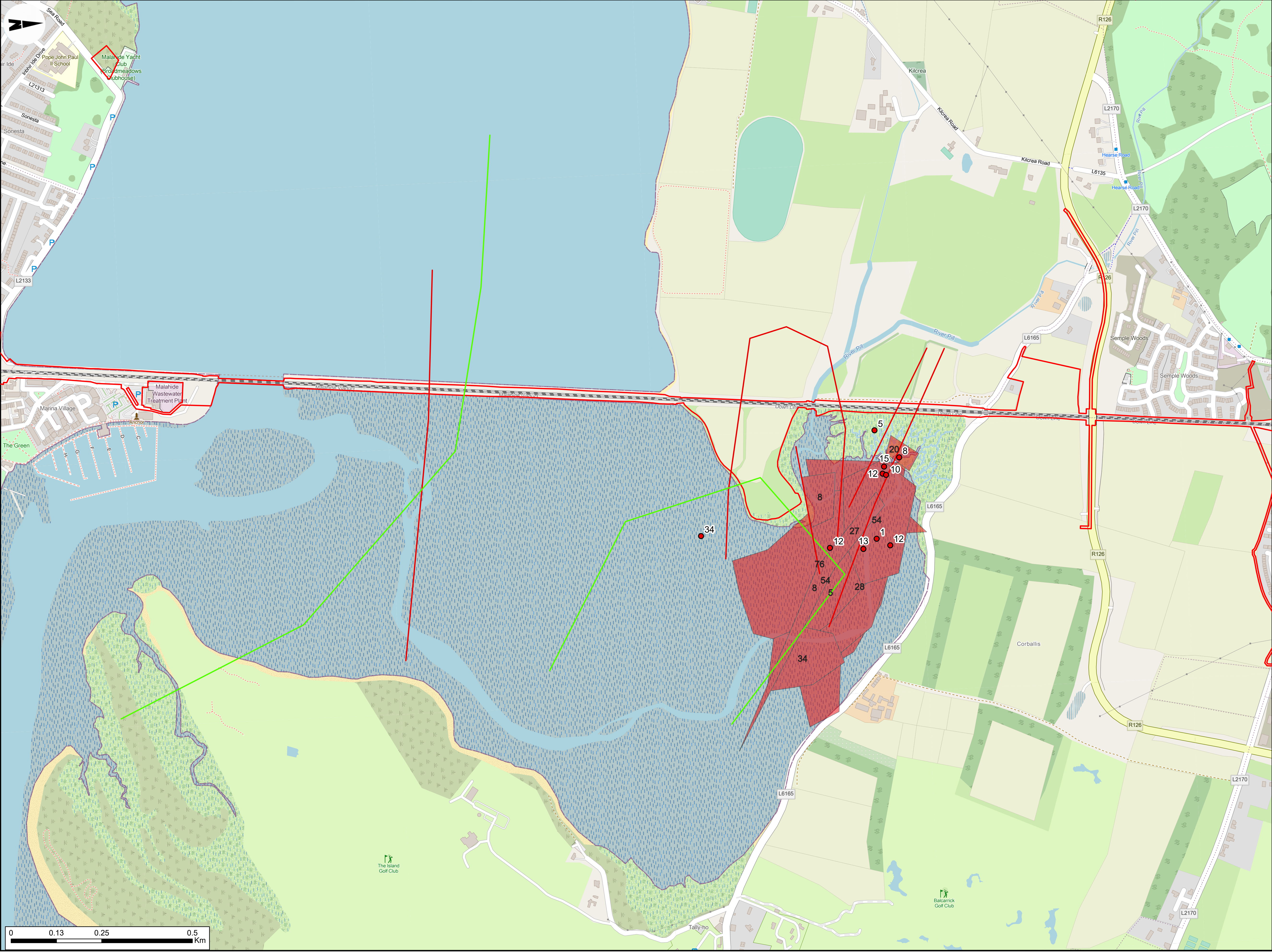
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Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client 		Engineering Designer 			Project Title <b>DART+ COASTAL NORTH</b>						
Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6</b>											
Date 07/09/2023	Scale 1:5000 @ A1 1:10000 @ A3	Drawn DM	Checked SQ	Approved COD	Drawing File Name <b>D+WP56-ARP-ZZ-LL-DR-EVBD-200162</b>			Sheet Number 62 of 85	Status <b>S4</b>	Rev <b>P02</b>	
Project Code D+WP56		Originator Code ARP		QMS Code 279933-00							





- LEGEND**
- DEVELOPMENT BOUNDARY
  - FLOCK COUNT
    - WIGEON
  - FLOCK COUNT AREAS
    - WIGEON
  - FLIGHT LINES (HEIGHT)
    - WIGEON: 0-10M
    - WIGEON: >10M

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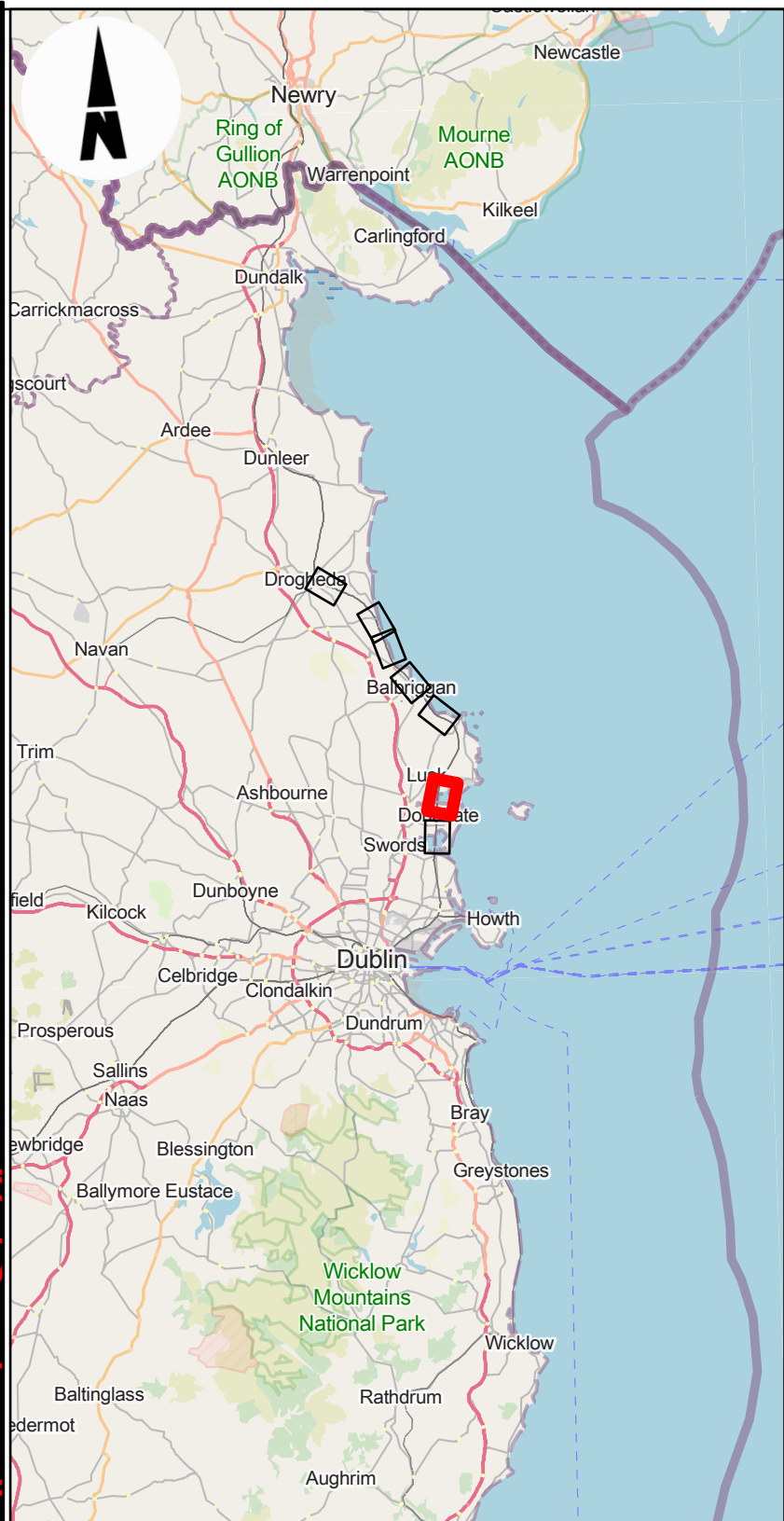
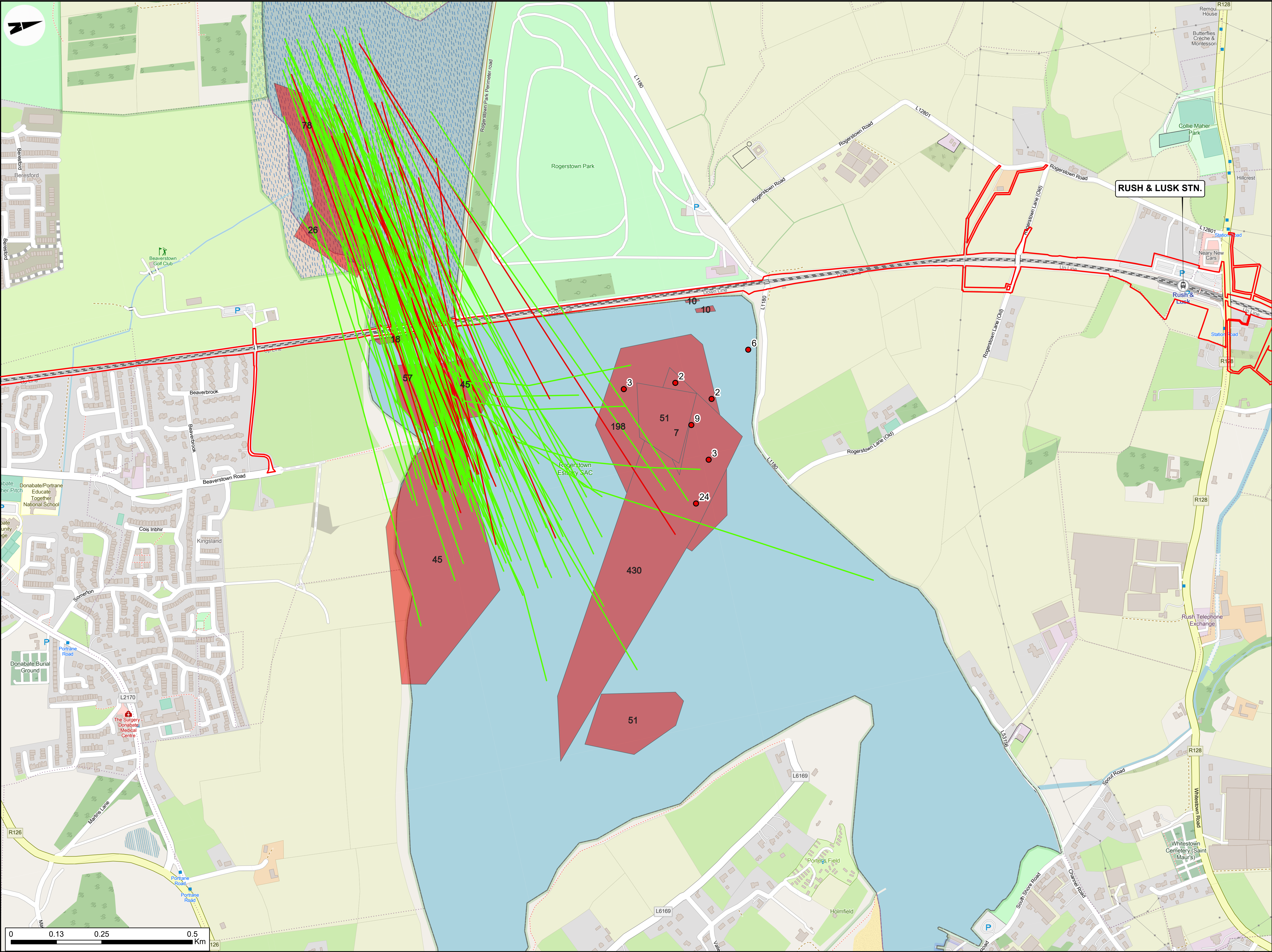


Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client		Engineering Designer		
Iarnród Éireann Irish Rail		ARUP		
Date	07/09/2023	Scale	1:5000 @ A1 1:10000 @ A3	Drawn DM Checked SQ Approved COD
Project Code	D+WP56	Originator Code	ARP	QMS Code 279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 1			
Drawing File Name	D+WP56-ARP-ZZ-LL-DR-EVBD-200163	Sheet Number	83 of 85
Status	S4	Rev	P02





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - WIGEON
  - FLOCK COUNT AREAS**
  - WIGEON
  - FLIGHT LINES (HEIGHT)**
  - WIGEON: 0-10M
  - WIGEON: >10M

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**NOTES**  
1. THE DATA SHOWN INCLUDE SURVEY RESULTS FOR THE WINTERS 2021/2022, 2022/2023 AND 2023/2024.  
2. BIRD COUNTS AT EACH POINT OR WITHIN EACH AREA DISPLAYED AS LABELS.  
3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.

Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Date	Scale	Drawn	Checked	Approved
07/09/2023	1:5000 @ A1 1:10000 @ A3	DM	SQ	COD

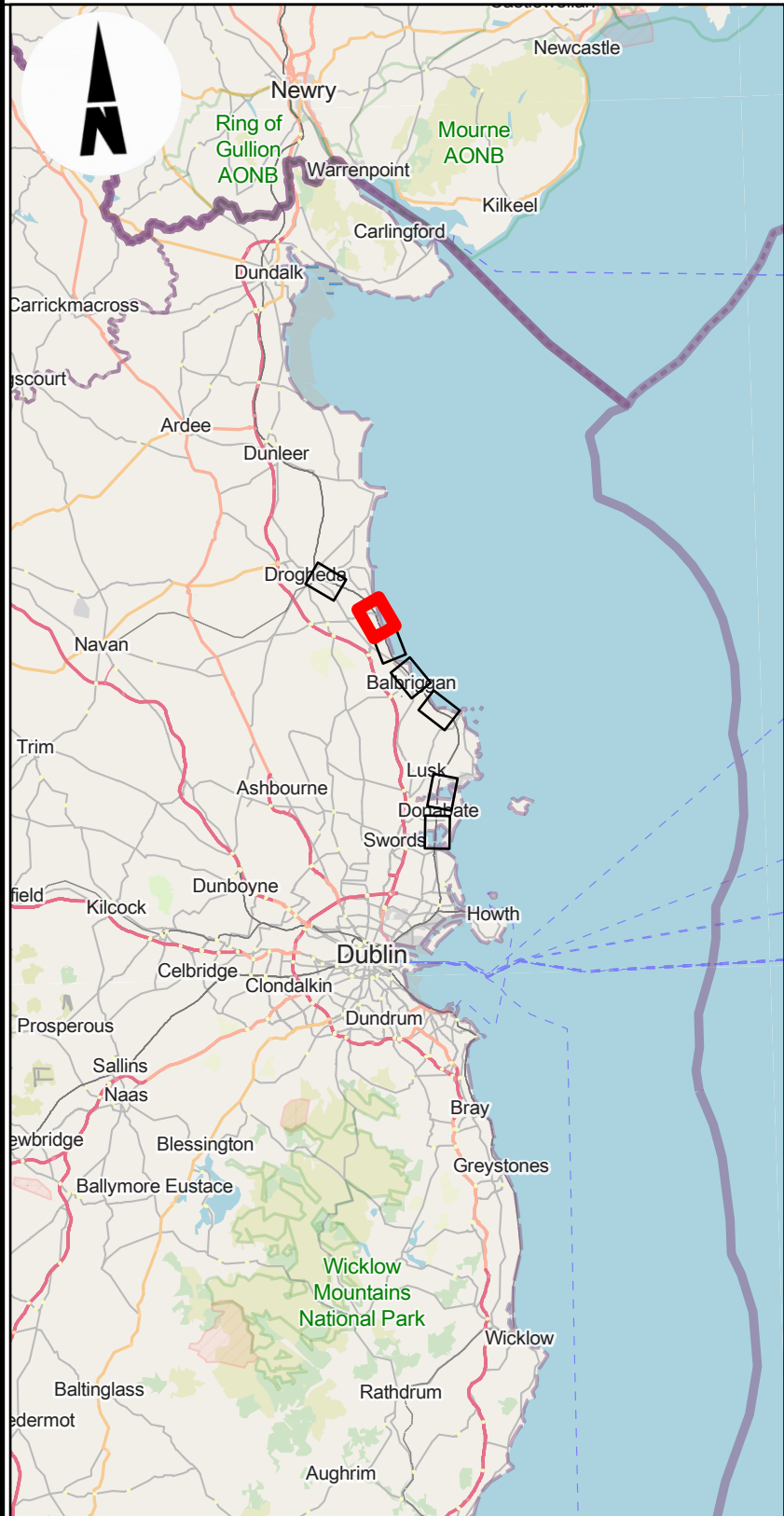
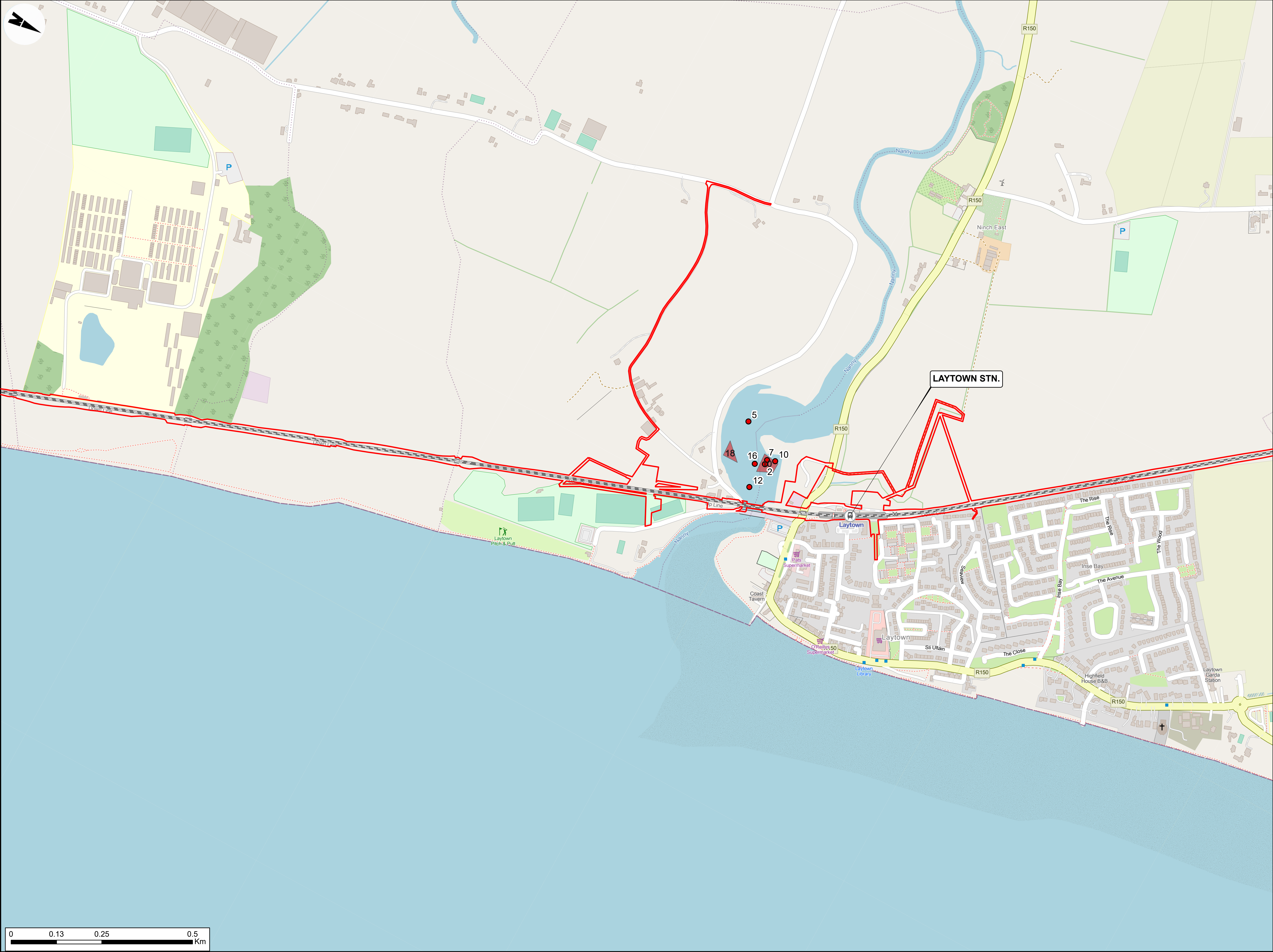
Project Code	Originator Code	QMS Code
D+WP56	ARP	279933-00

Client	Engineering Designer	Project Title
		DART+ COASTAL NORTH

Drawing Title	Drawing File Name	Sheet Number	Status	Rev
BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 2	D+WP56-ARP-ZZ-NL-DR-EVBD-200164	84 of 85	S4	P02

© Arup





- LEGEND**
- RAILWAY STATIONS
  - DEVELOPMENT BOUNDARY
  - FLOCK COUNT**
  - WIGEON
  - FLOCK COUNT AREAS**
  - WIGEON

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**NOTES**  
1. THE DATA SHOWN INCLUDE SURVEY RESULTS FOR THE WINTERS 2021/2022, 2022/2023 AND 2023/2024.  
2. BIRD COUNTS AT EACH POINT OR WITHIN EACH AREA DISPLAYED AS LABELS.  
3. FIGURE ONLY INCLUDES AREAS WITH SURVEY RESULTS.



Rev	Date	Dm	Chk'd	App'd	Description
P02	31/05/2024	DM	SQ	COD	PLANNING ISSUE

Client 		Engineering Designer 		
Date 07/09/2023	Scale 1:5000 @ A1 1:10000 @ A3	Drawn DM	Checked SQ	Approved COD
Project Code D+WP56	Originator Code ARP	QMS Code 279933-00		

Project Title <b>DART+ COASTAL NORTH</b>				
Drawing Title <b>BIODIVERSITY FIGURE 6: WINTERING BIRD SURVEY SURVEY AREA 6</b>				
Drawing File Name D+WP56-ARP-ZZ-NL-DR-EVBD-200165	Sheet Number 85 of 85	Status S4	Rev P02	