

### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

- Wildfowl Sanctuary
- Nature Reserve
- Refuge for Fauna
- Special Protection Areas (SPA)
- Special Areas of Conservation (SAC)
- Natural Heritage Areas (NHA)
- proposed Natural Heritage Areas (pNHA)
- Annex 1 Habitat (Estuaries)
- National Survey of Native Woodlands

### River Waterbody WFD Status 2013-2018

- High
- Good
- Moderate
- Poor
- Bad
- Unassigned

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Rev	Date	Drn	Chk'd	App'd	Description
V03	28/09/2021	NR	CR	AG	Description
V02	01/03/2021	NAR	CR	AG	Description
V01	12/11/2020	NON	SK	AG	Description

Client: **Iarnród Éireann Irish Rail**

Date: 28/09/2021 Scale: 1:10,000 @ A4

Project Code: 5199586 Issuer: TTA/RPS

Engineering Designer: **ATKINS** (Type A), **RPS** (Type B)

Drawn: NR Checked: CR Approved: AG

OMS Code: \_\_\_\_\_

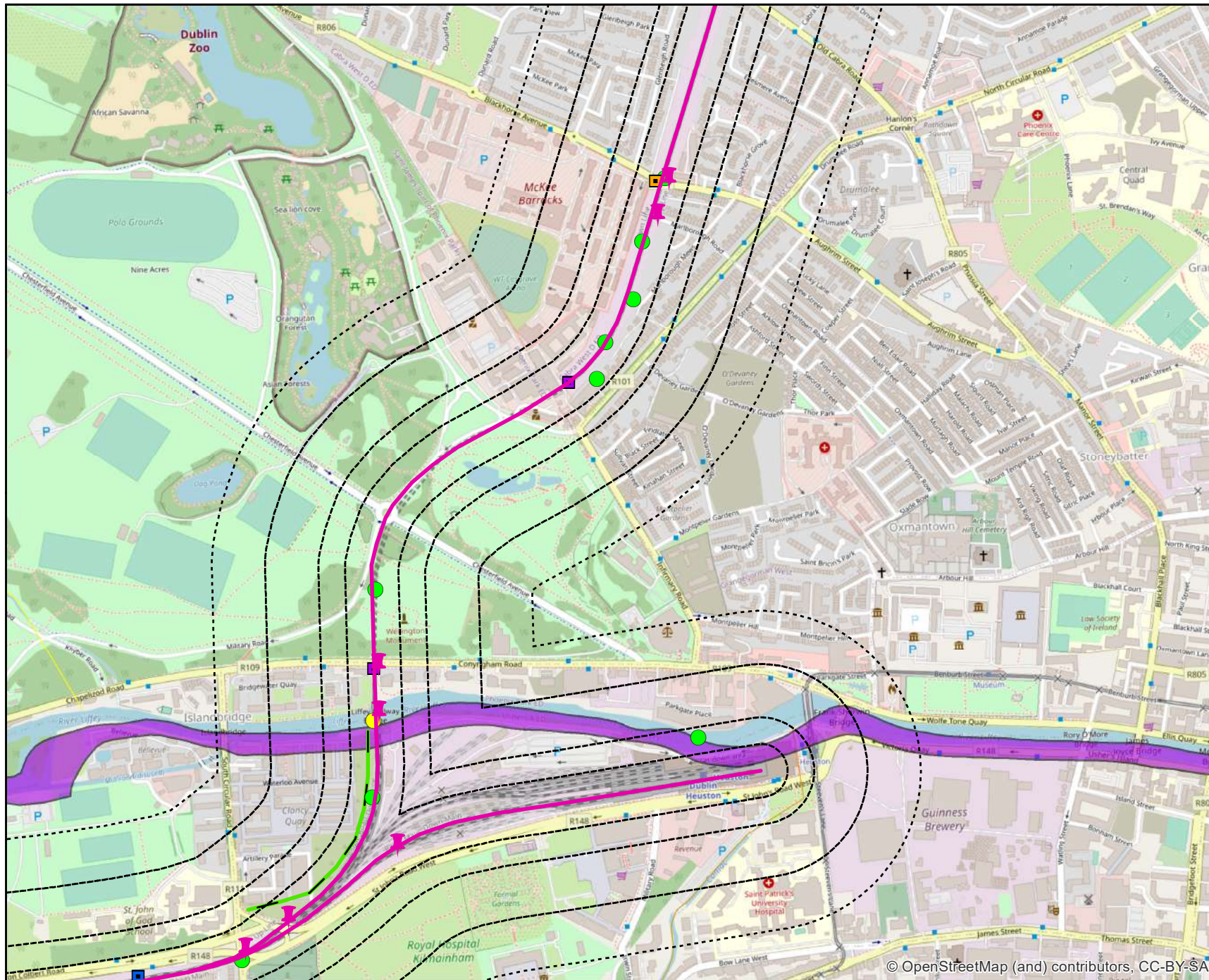
Project Title: **DART + SOUTH WEST**

Drawing Title: **Biodiversity Constraints (Map 01 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9860** Version: v03 Status: S3

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

- Wildfowl Sanctuary
- Nature Reserve
- Refuge for Fauna
- Special Protection Areas (SPA)
- Special Areas of Conservation (SAC)
- Natural Heritage Areas (NHA)
- proposed Natural Heritage Areas (pNHA)
- Annex 1 Habitat (Estuaries)
- National Survey of Native Woodlands

### River Waterbody WFD Status 2013-2018

- High
- Good
- Moderate
- Poor
- Bad
- Unassigned

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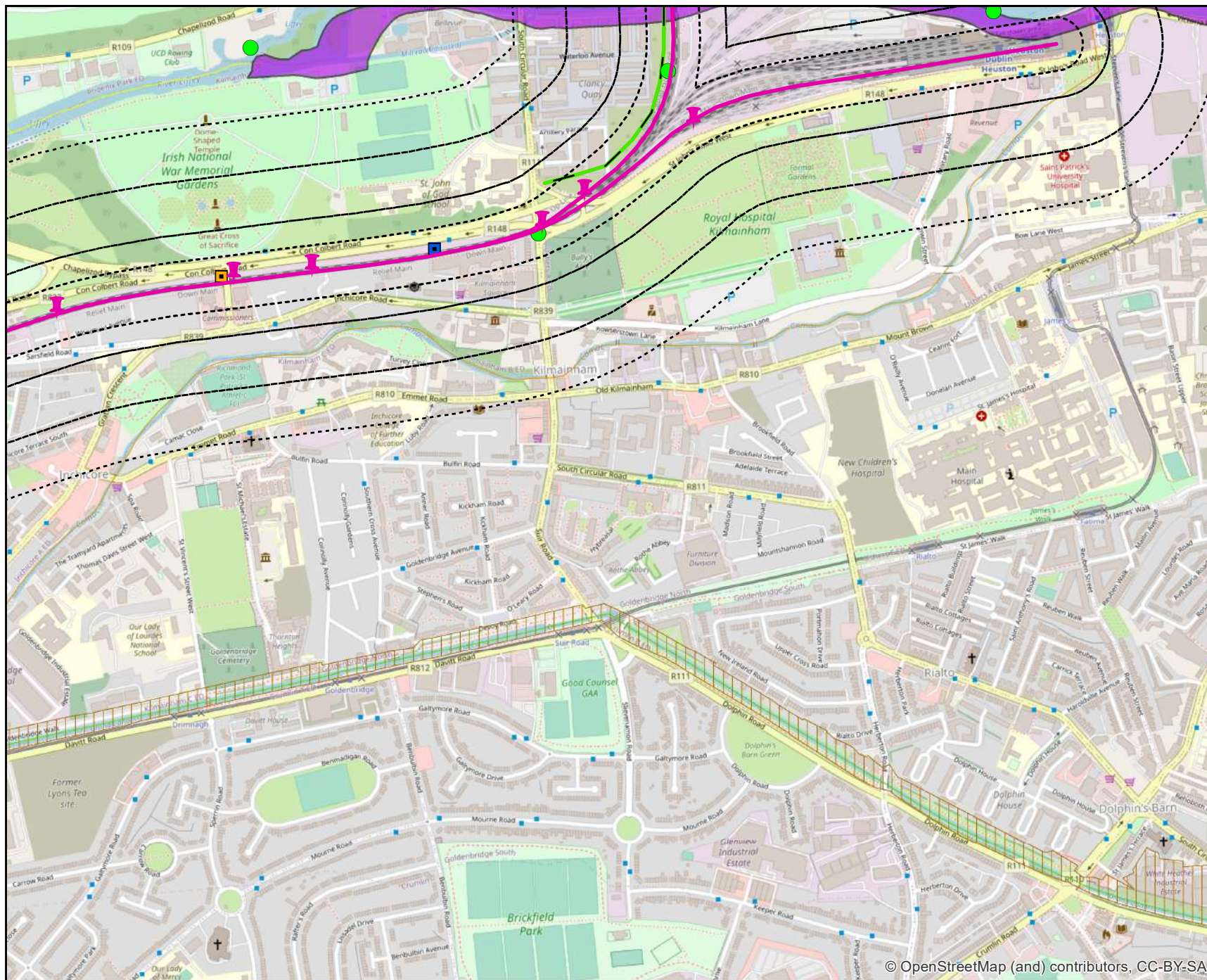


Date	28/09/2021	Scale	1:10,000 @ A4	Drawn	NR
Project Code	6199886	Issuer	TTA/RPS	Checked	CR
Engineering Designer			Approved	AG	

Project Title	DART + SOUTH WEST	
Drawing Title	Biodiversity Constraints (Map 02 of 10)	
Drawing File Name	DP-04-23-DWG-EV-TTA-9860	Status S3

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

- Wildfowl Sanctuary
- Nature Reserve
- Refuge for Fauna
- Special Protection Areas (SPA)
- Special Areas of Conservation (SAC)
- Natural Heritage Areas (NHA)
- proposed Natural Heritage Areas (pNHA)
- Annex 1 Habitat (Estuaries)
- National Survey of Native Woodlands

### River Waterbody WFD Status 2013-2018

- High
- Good
- Moderate
- Poor
- Bad
- Unassigned

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V03	28/09/2021	NR	CR	AG	Description
V02	01/03/2021	NAR	CR	AG	Description
V01	12/11/2020	NON	SK	AG	Description

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS**

Supported by: **rps**

Date: 28/09/2021 Scale: 1:10,000 @ A4

Project Code: 6199586 Issuer: TTA/RPS

Drawn: NR Checked: CR Approved: AG

OMS Code

Project Title: **DART + SOUTH WEST**

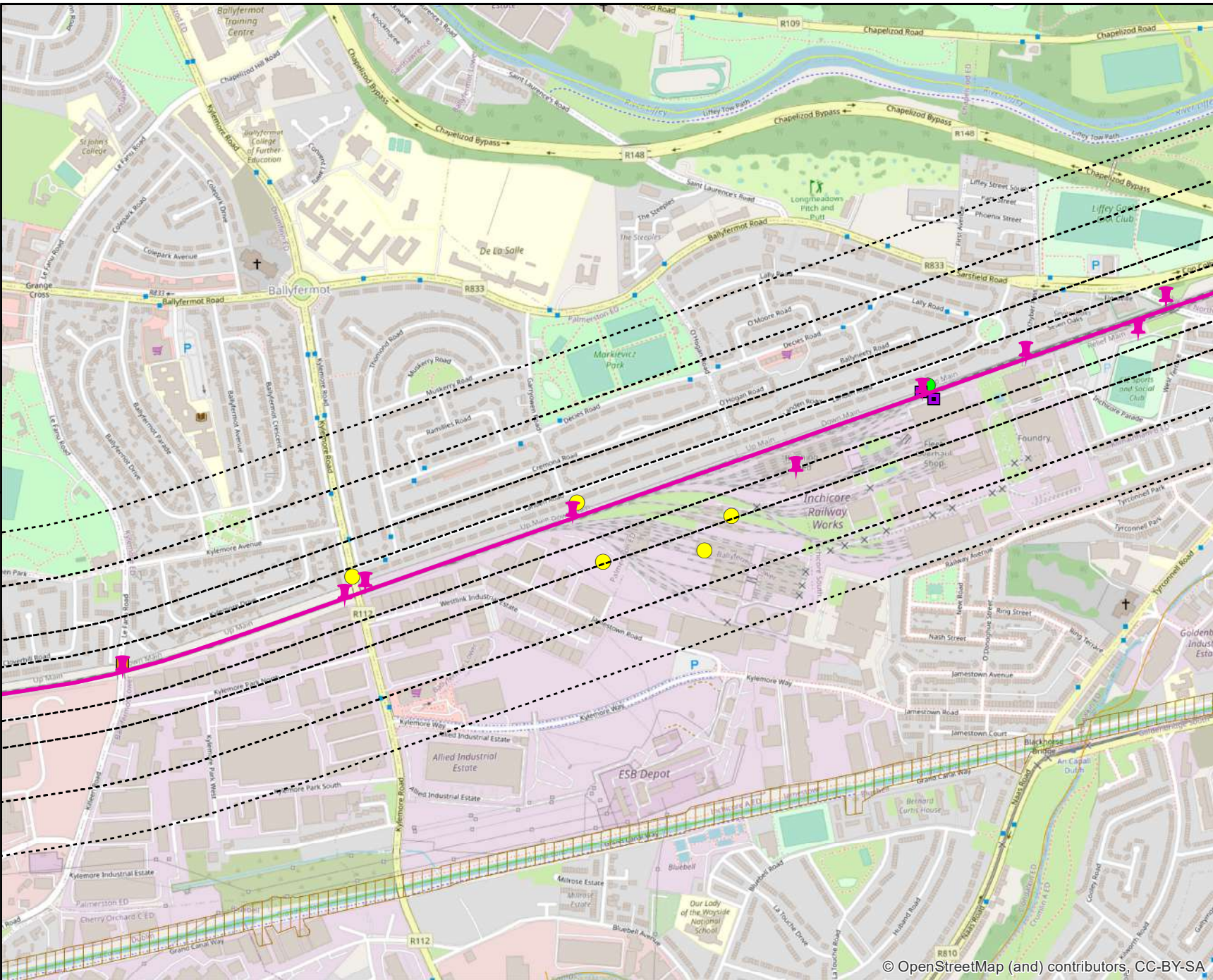
Drawing Title: **Biodiversity Constraints (Map 03 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9860**

Version: v03 Status: S3

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

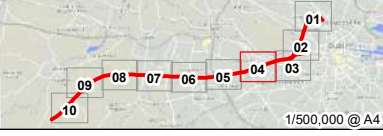
- Wildfowl Sanctuary
- Nature Reserve
- Refuge for Fauna
- Special Protection Areas (SPA)
- Special Areas of Conservation (SAC)
- Natural Heritage Areas (NHA)
- proposed Natural Heritage Areas (pNHA)
- Annex 1 Habitat (Estuaries)
- National Survey of Native Woodlands

### River Waterbody WFD Status 2013-2018

- High
- Good
- Moderate
- Poor
- Bad
- Unassigned

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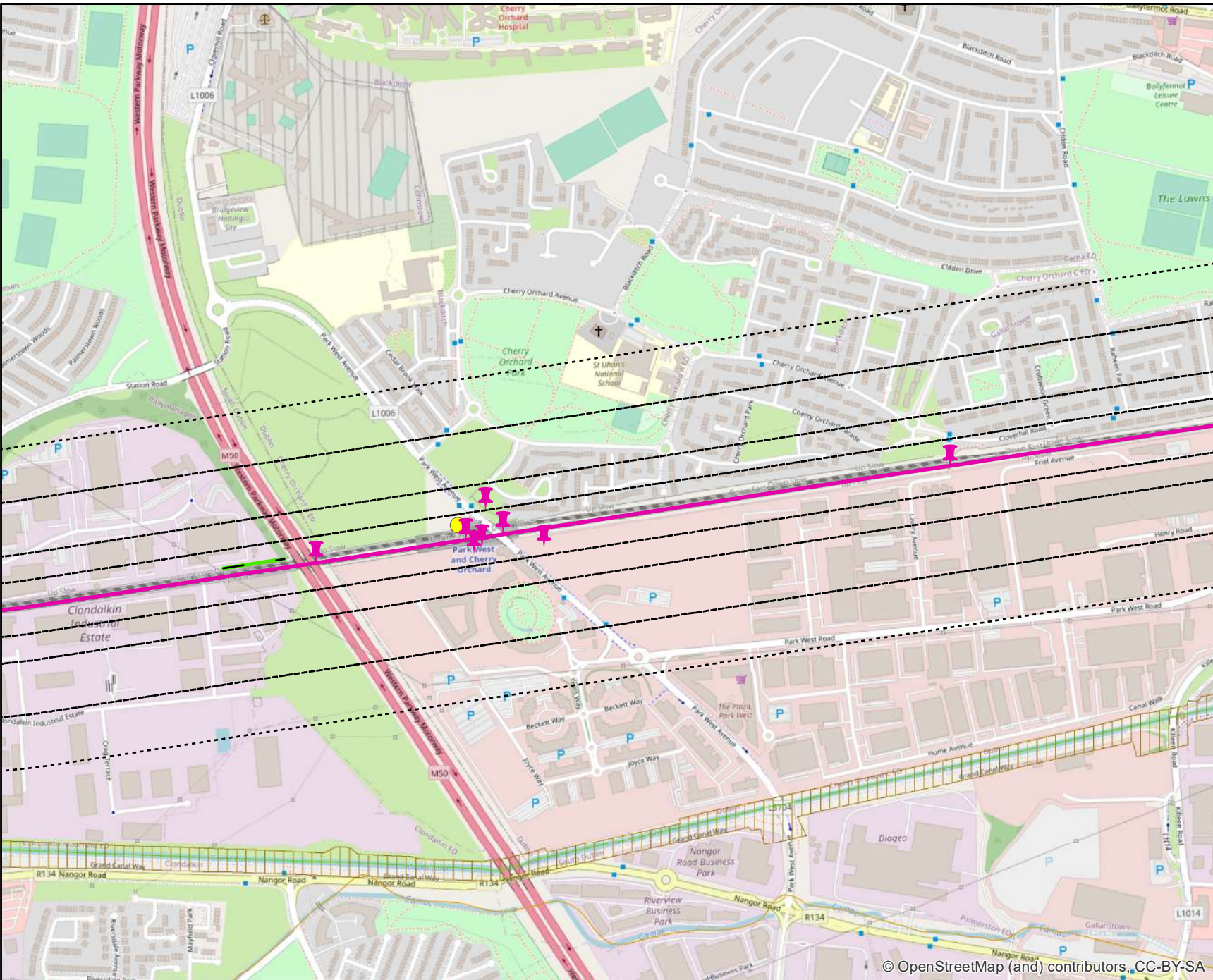
Rev	Date	Dm	Chkd	App'd	Description
V03	28/09/2021	NR	CR	AG	Description
V02	01/03/2021	NAR	CR	AG	Description
V01	12/11/2020	NON	SK	AG	Description

Client <b>Iarnród Éireann</b> Irish Rail		Engineering Designer <b>ATKINS</b> Supported by: <b>RPS</b>	
Date	28/09/2021	Scale	1:10,000 @ A4
Project Code	6199586	Issuer	TTA/RPS
OMS Code		Drawn	NR
		Checked	CR
		Approved	AG

Project Title	<b>DART + SOUTH WEST</b>		
Drawing Title	<b>Biodiversity Constraints</b> (Map 04 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9860	Version	v03
		Status	S3

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

- Wildfowl Sanctuary
- Nature Reserve
- Refuge for Fauna
- Special Protection Areas (SPA)
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- National Survey of Native Woodlands

### River Waterbody WFD Status 2013-2018

- High
- Good
- Moderate
- Poor
- Bad
- Unassigned



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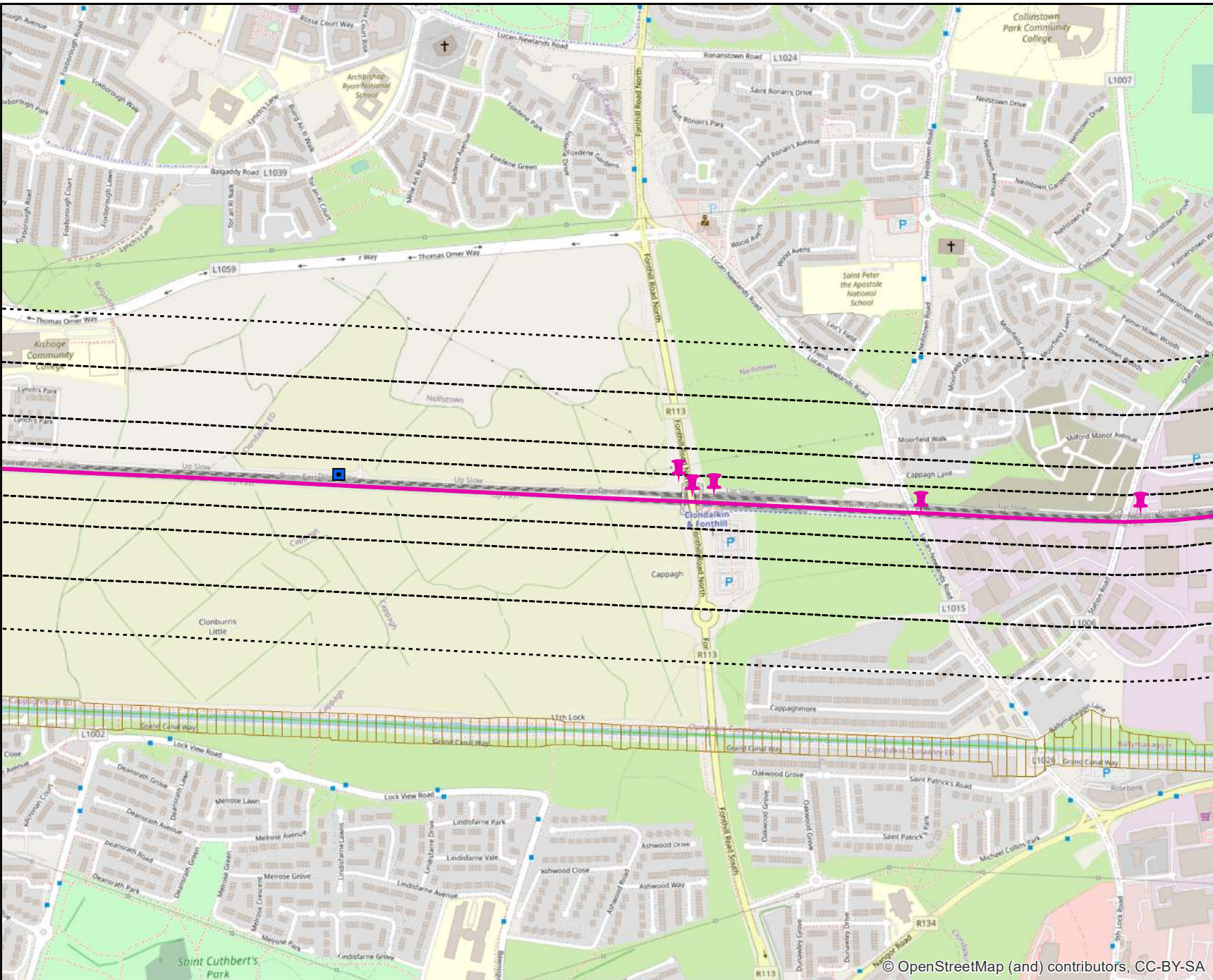
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v02	01/03/2021	NAR	CR	AG	Description
v01	12/11/2020	NON	SK	AG	Description

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ATKINS TYPSA Supported by: FPS	
Date	Scale	Drawn	Checked
28/09/2021	1:10,000 @ A4	NR	CR
Project Code	Issuer	OMS Code	Approved
6199586	TTA/RPS		AG

Project Title	DART + SOUTH WEST		
Drawing Title	Biodiversity Constraints (Map 05 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9860	Version	v03
Status	S3		

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

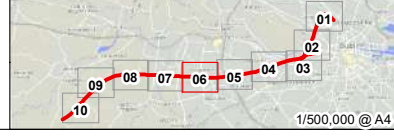
- Wildfowl Sanctuary
- Nature Reserve
- Refuge for Fauna
- Special Protection Areas (SPA)
- Special Areas of Conservation (SAC)
- Natural Heritage Areas (NHA)
- proposed Natural Heritage Areas (pNHA)
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### River Waterbody WFD Status 2013-2018

- High
- Good
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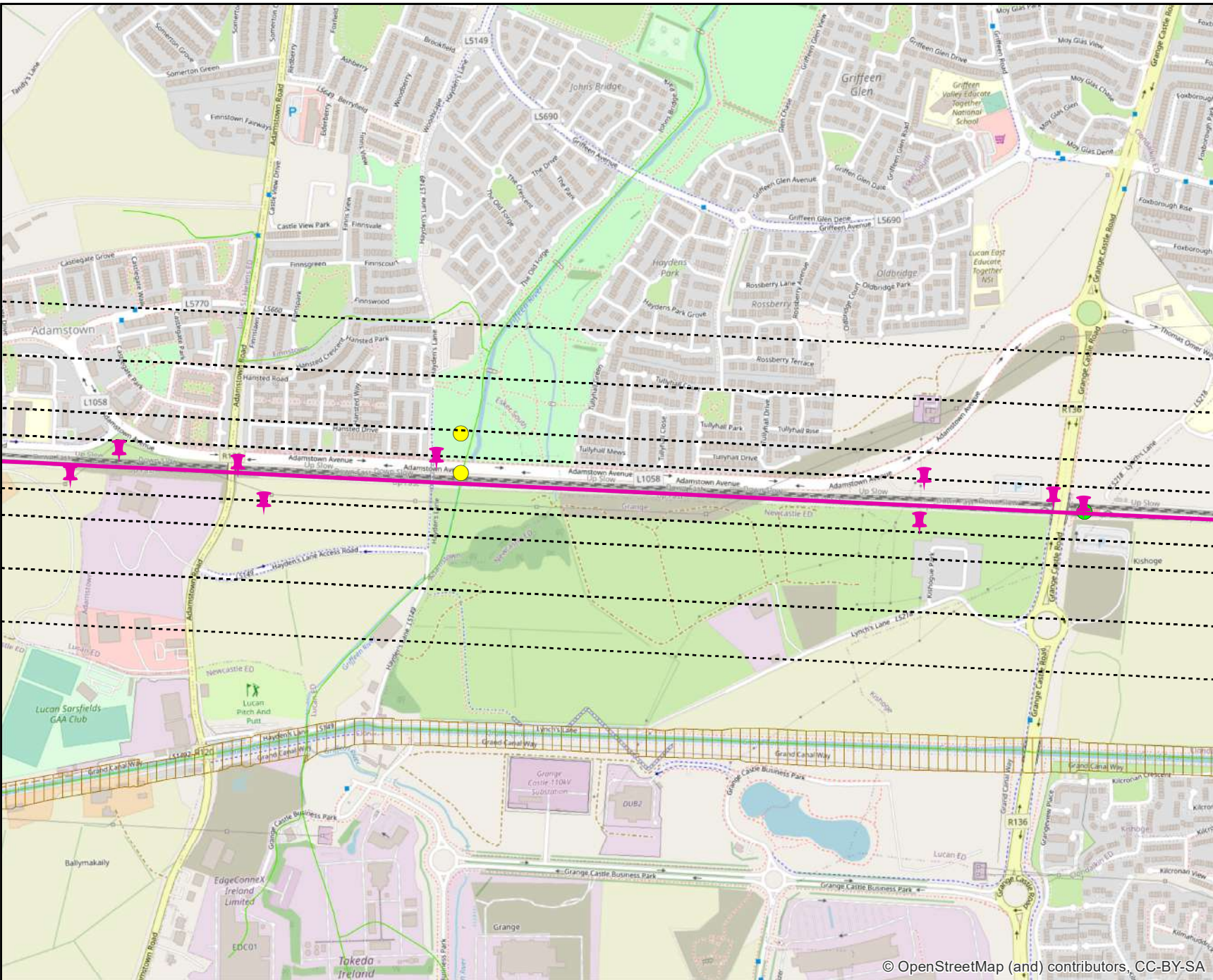
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v03	28/09/2021	NR	CR	AG	Description
v02	01/03/2021	NAR	CR	AG	Description
v01	12/11/2020	NON	SK	AG	Description

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ATKINS TYP56 Supported by: RPS	
Date	Scale	Drawn	Checked
28/09/2021	1:10,000 @ A4	NR	CR
Project Code	Issuer	OMS Code	Approved
6199886	TTA/RPS		AG

Project Title	DART + SOUTH WEST		
Drawing Title	Biodiversity Constraints (Map 06 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9860	Version	v03
Status	S3		

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

- Wildfowl Sanctuary
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- proposed Natural Heritage Areas (pNHA)
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### River Waterbody WFD Status 2013-2018

- High
- Good
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- Bad
- Unassigned

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Rev	Date	Drn	Chkd	App'd	Description
v03	28/09/2021	NR	CR	AG	Description
v02	01/03/2021	NAR	CR	AG	Description
v01	12/11/2020	NO'N	SK	AG	Description

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (with logos for TYPESA, RPS, and others)

Date: 28/09/2021 Scale: 1:10,000 @ A4

Project Code: 5199586 Issuer: TTA/RPS

Drawn: NR Checked: CR Approved: AG

OMS Code: \_\_\_\_\_

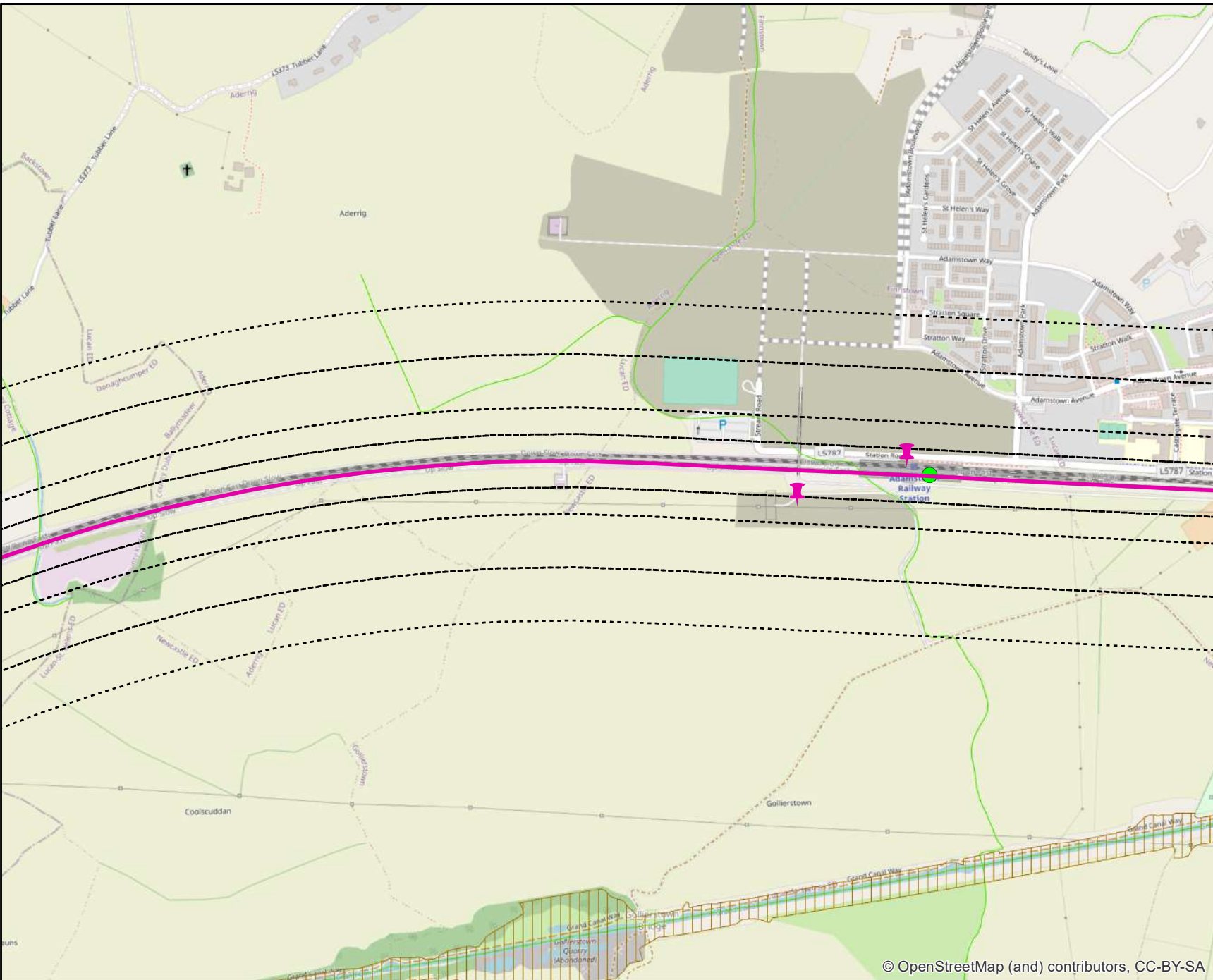
Project Title: **DART + SOUTH WEST**

Drawing Title: **Biodiversity Constraints (Map 07 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9860** Version: v03 Status: S3

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
- Bat Observation locations (emergence/re-entry)
- Static Bat Detector
- Bird Survey Location
- Ecological Features 2011 EIS
- Ecological Features (point) 2020
- Ecological Features (linear) 2020

### National & EU Data

- Wildfowl Sanctuary
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### River Waterbody WFD Status 2013-2018

- High
- Good
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- Poor
- Bad
- Unassigned



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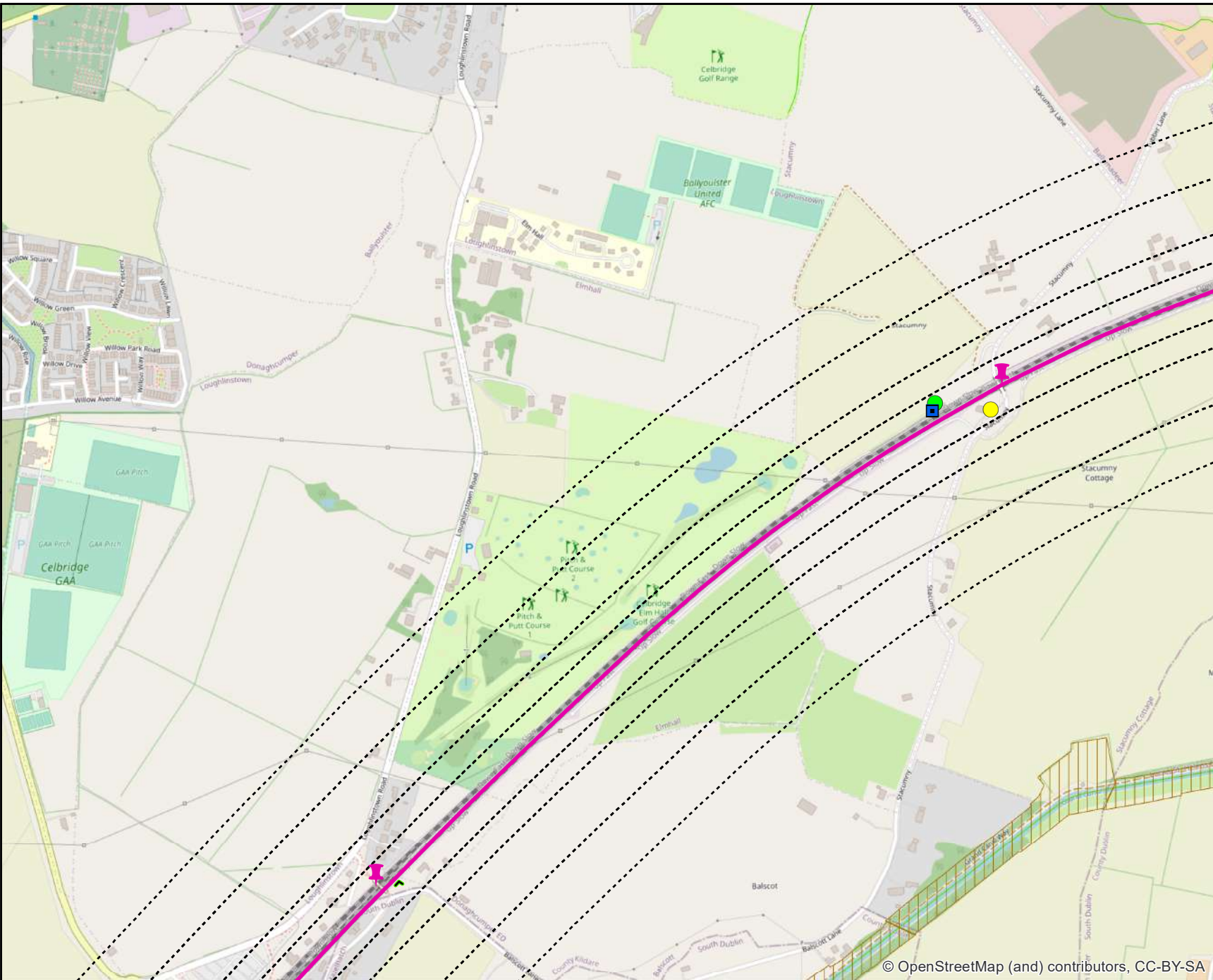
Rev	Date	Dm	Chk'd	App'd	Description
v03	28/09/2021	NR	CR	AG	Description
v02	01/03/2021	NAR	CR	AG	Description
v01	12/11/2020	NO/N	SK	AG	Description

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ATKINS Supported by: RPS	
Date	Scale	Drawn	Checked
28/09/2021	1:10,000 @ A4	NR	CR
Project Code	Issuer	QMS Code	Approved
5199586	TTA/RPS		AG

Project Title		DART + SOUTH WEST	
Drawing Title		Biodiversity Constraints (Map 08 of 10)	
Drawing File Name		DP-04-23-DWG-EV-TTA-9860	Status
		Version	S3
		v03	

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### Legend

- Engineering Elements
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### River Waterbody WFD Status 2013-2018

- High
- Good
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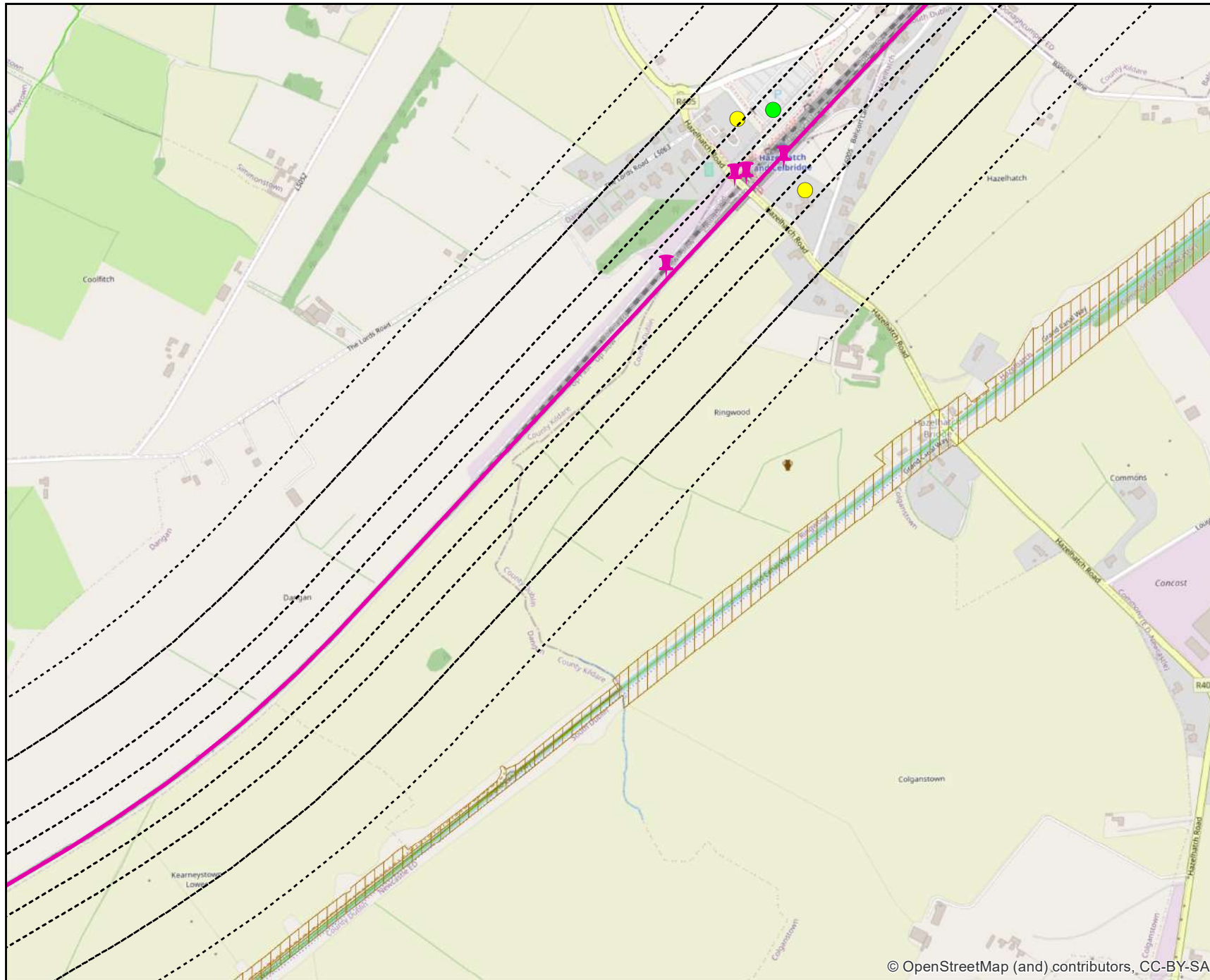
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v03	28/09/2021	NR	CR	AG	Description
v02	01/03/2021	NAR	CR	AG	Description
v01	12/11/2020	NO/N	SK	AG	Description

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ATKINS TYPSA Supported by: RPS	
Date	Scale	Drawn	Checked
28/09/2021	1:10,000 @ A4	NR	CR
Project Code	Issuer	OMS Code	Approved
6199586	TTA/RPS		AG

Project Title	DART + SOUTH WEST		
Drawing Title	Biodiversity Constraints (Map 09 of 10)		
Drawing File Name	DP-04-23-DWG-EV-TTA-9860	Version	Status
		v03	S3

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### Legend

- Engineering Elements
- Buffers: 50m, 100m, 200m, 300m
- Rail Network Centreline
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- Static Bat Detector
- Bird Survey Location
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### National & EU Data

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- National Survey of Native Woodlands

### River Waterbody WFD Status 2013-2018

- High
- Good
- Moderate
- Poor
- Bad
- Unassigned

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Rev	Date	Dm	Chk'd	App'd	Description
v03	28/09/2021	NR	CR	AG	Description
v02	01/03/2021	NAR	CR	AG	Description
v01	12/11/2020	NON	SK	AG	Description

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (supported by **RPS**)

Date: 28/09/2021 | Scale: 1:10,000 @ A4

Project Code: 5199586 | Issuer: TTA/RPS

Drawn: NR | Checked: CR | Approved: AG

QMS Code: \_\_\_\_\_

Project Title: **DART + SOUTH WEST**

Drawing Title: **Biodiversity Constraints (Map 10 of 10)**

Drawing File Name: **DP-04-23-DWG-EV-TTA-9860** | Version: v03 | Status: S3

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