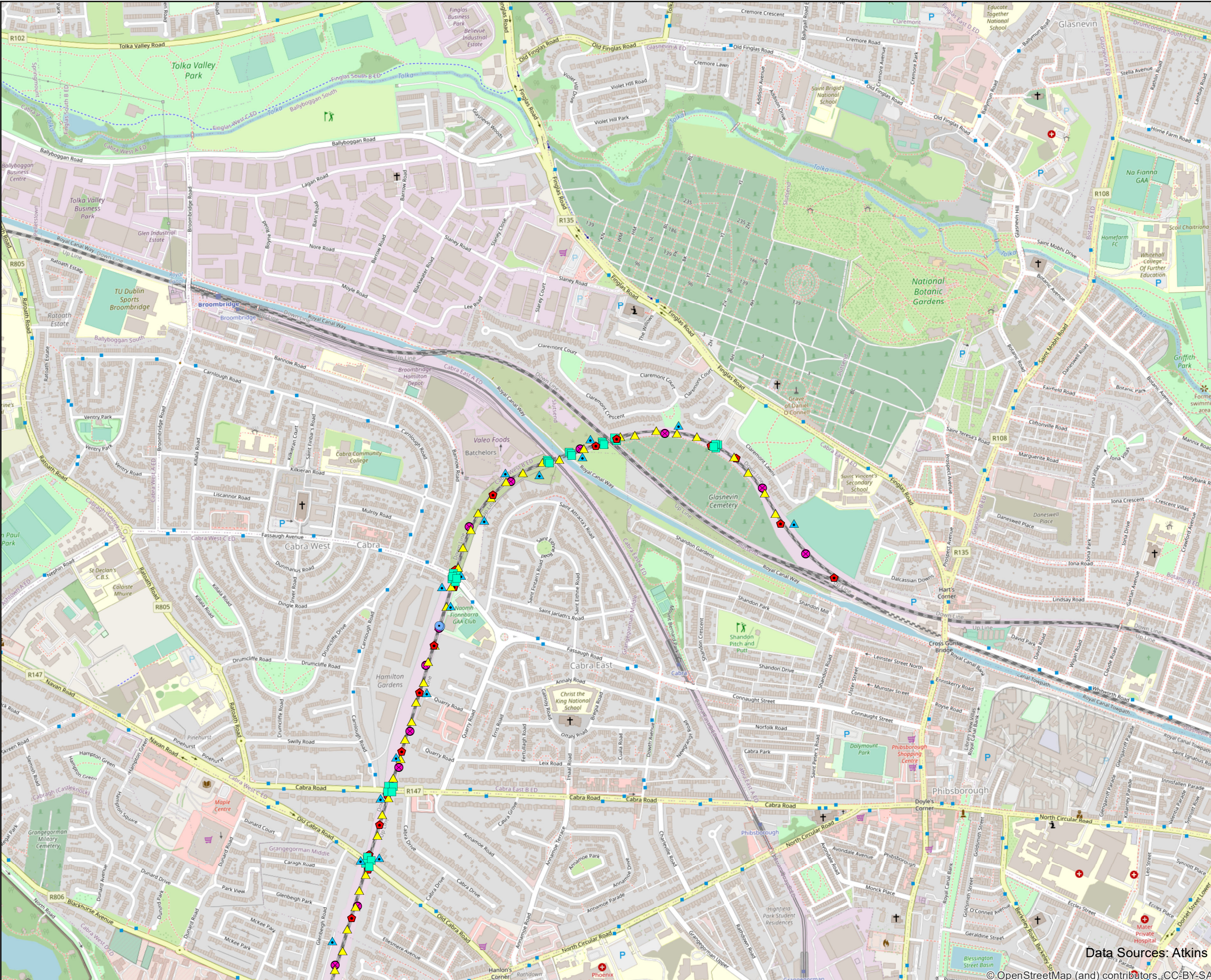


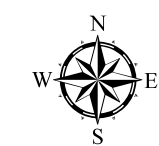
Legend

Ground Investigation Works Locations

- Dynamic Probe
- Foundation Inspection Pit
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- Track Bed Inspection
- ◆ Window Sample



- Drawing Notes:**
1. Exploratory hole locations are indicative online.
 2. All ground investigation locations provided by Atkins Geotechnical Team.
 3. Further site specific detail provided in Atkins Ground Investigation Report



Data Sources: Atkins

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Rev	Date	Drn	Ch'kd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS Member of the SNC-Lavalin Group	
Date 01/11/2022	Scale 1:9,390 @ A3	Drawn NR	Checked EH
Project Code 5195886	Issuer TTA	Approved CR	

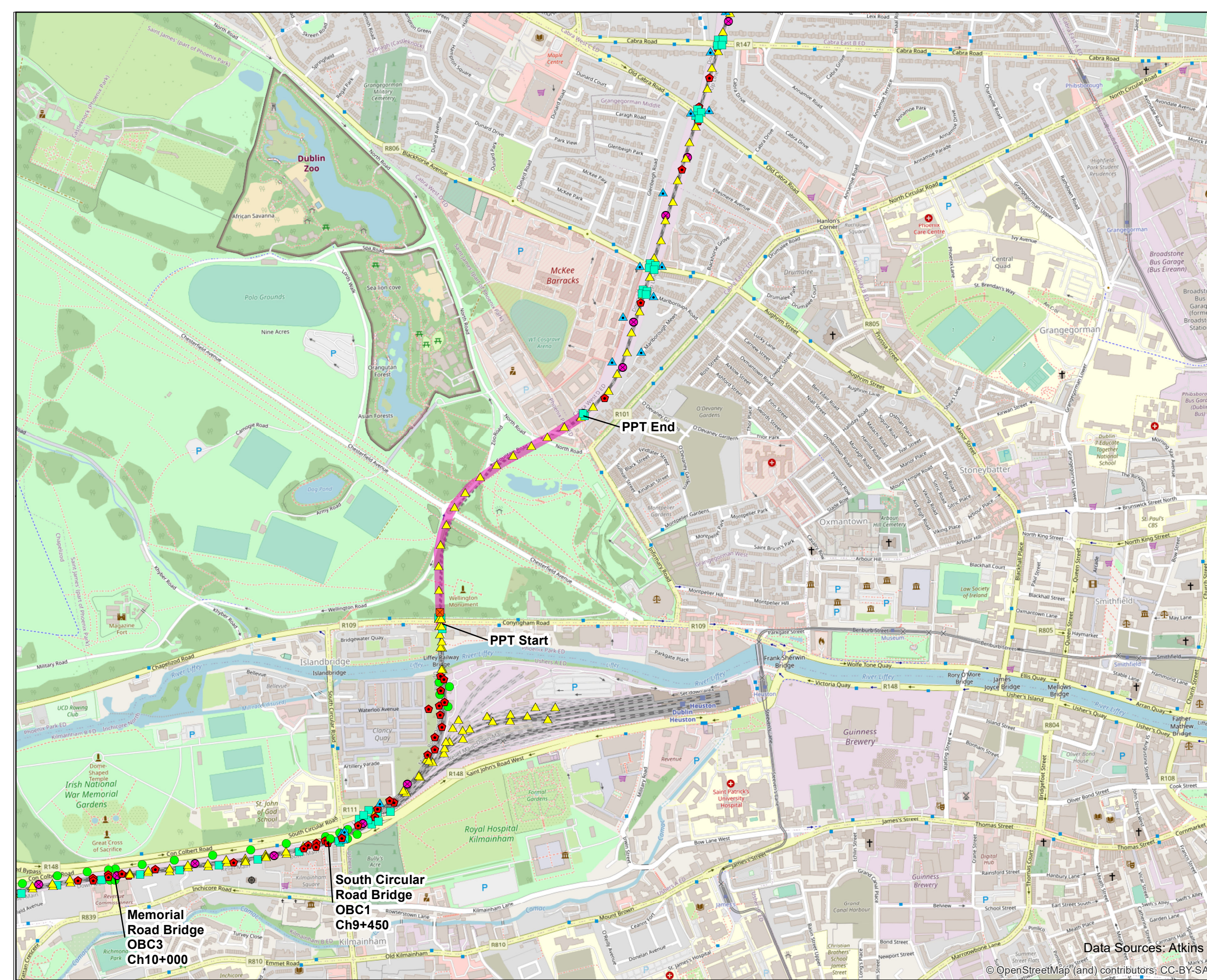
Project Title DART + SOUTH WEST		Version v02	Status S3
Drawing Title Figure 9.4: Ground Investigation Works Locations Map 01 of 10			
Drawing File Name DP-04-23-DWG-EV-TTA-23741			

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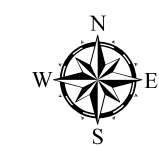
Legend

Ground Investigation Works Locations

- Cable Percussive with Rotary Core
- Dynamic Probe
- Foundation Inspection Pit
- Inspection Pit
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- ◆ Window Sample
- Extent of Phoenix Park Tunnel



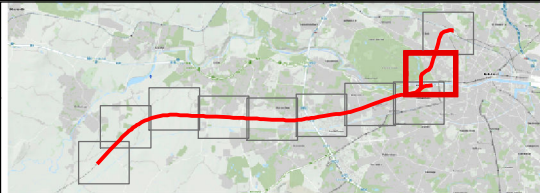
- Drawing Notes:**
1. Exploratory hole locations are indicative online.
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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS Member of the SNC-Lavalin Group	
Date 01/11/2022	Scale 1:9,390 @ A3	Drawn NR	Checked EH
Project Code 5195886	Issuer TTA	Approved CR	

Project Title DART + SOUTH WEST		Version v02	Status S3
Drawing Title Figure 9.4: Ground Investigation Works Locations Map 02 of 10			
Drawing File Name DP-04-23-DWG-EV-TTA-23741			

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Legend

Ground Investigation Works Locations

- Cable Percussive with Rotary Core
- Dynamic Probe
- Foundation Inspection Pit
- Inspection Pit
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- ◆ Window Sample
- Extent of Phoenix Park Tunnel (PPT)

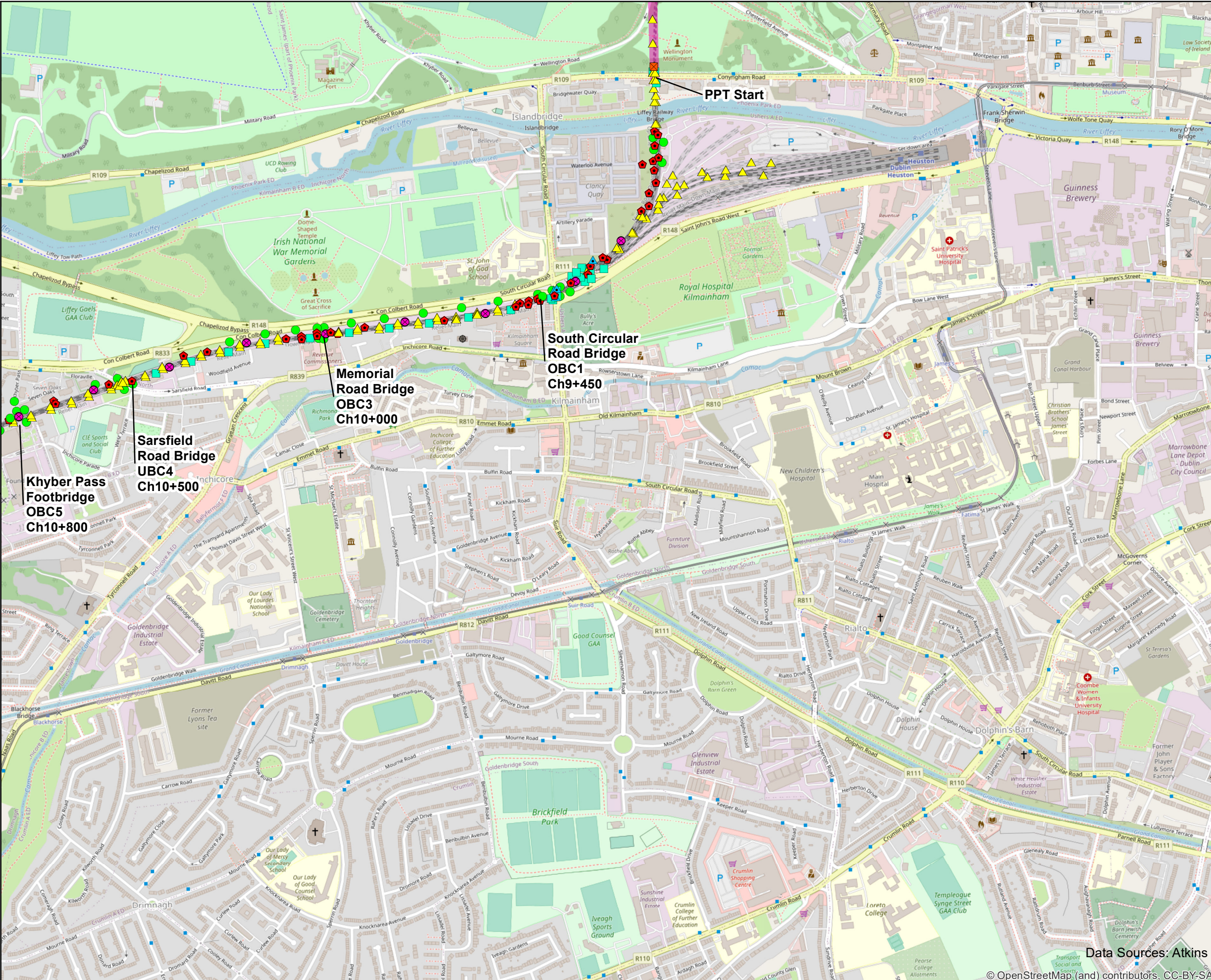
Drawing Notes:

1. Exploratory hole locations are indicative online.
2. All ground investigation locations provided by Atkins Geotechnical Team.
3. Further site specific detail provided in Atkins Ground Investigation Report



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Rev	Date	Drn	Ch'kd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ATKINS Member of the SNC-Lavalin Group	
Date: 01/11/2022		Supported by: RPS	
Scale: 1:9,390 @ A3	Drawn: NR	Checked: EH	Approved: CR
Project Code: 5195886	Issuer: TTA	QMS Code	

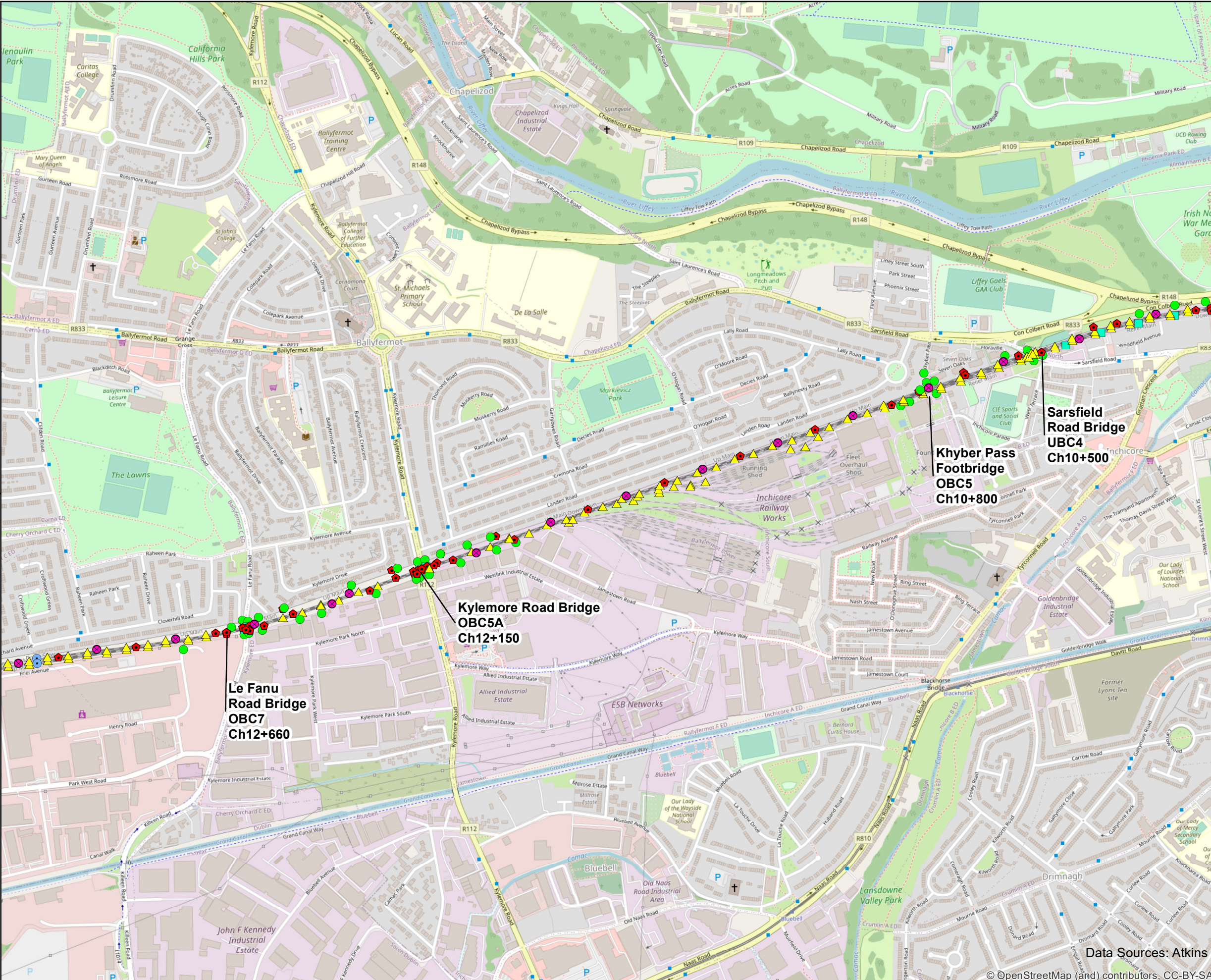
Project Title		DART + SOUTH WEST	
Drawing Title		Figure 9.4: Ground Investigation Works Locations Map 03 of 10	
Drawing File Name	DP-04-23-DWG-EV-TTA-23741	Version	v02
Status	S3		

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Legend

Ground Investigation Works Locations

- Cable Percussive with Rotary Core
- Dynamic Probe
- Foundation Inspection Pit
- ▲ Inspection Pit with DCP
- Track Bed Inspection
- ◆ Window Sample



- Drawing Notes:**
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 3. Further site specific detail provided in Atkins Ground Investigation Report



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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS Member of the SNC-Lavalin Group		
Date 01/11/2022	Scale 1:9,390 @ A3	Drawn NR	Checked EH	Approved CR
Project Code 5195886	Issuer TTA	Supported by RPS		

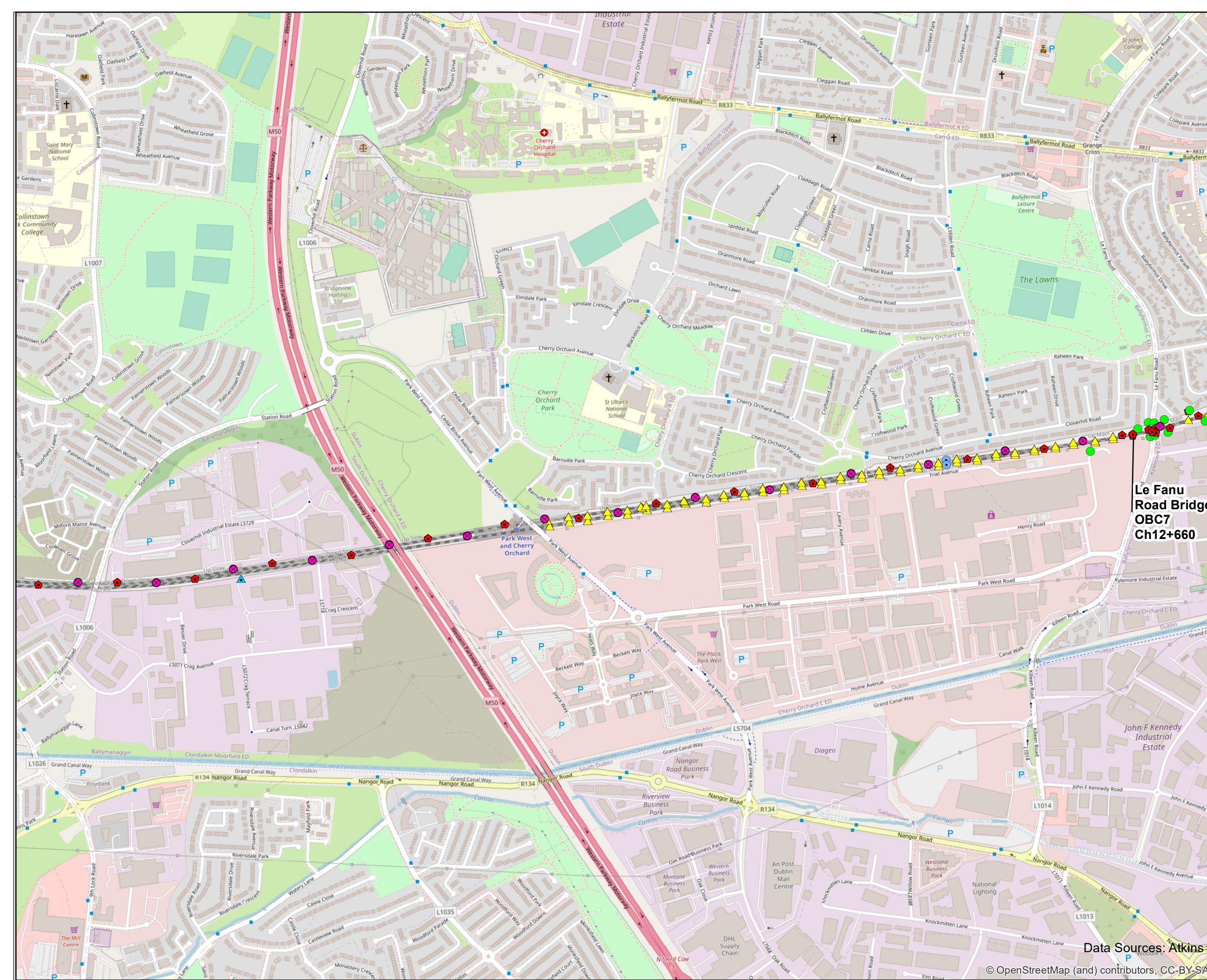
Project Title	DART + SOUTH WEST		
Drawing Title	Figure 9.4: Ground Investigation Works Locations Map 04 of 10		
Drawing File Name	DP-04-23-DWG-EV-TTA-23741	Version	v02
Status	S3		

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Legend

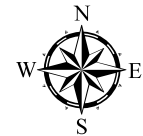
Ground Investigation Works Locations

- Cable Percussive with Rotary
- Dynamic Probe
- Foundation Inspection Pit
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- Track Bed Inspection
- ◆ Window Sample



Le Fanu Road Bridge OBC7 Ch12+660

- Drawing Notes:**
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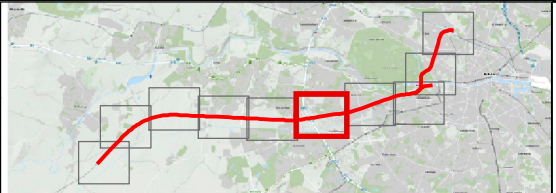


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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS	
Date 01/11/2022	Scale 1:9,390 @ A3	Drawn NR	Checked EH
Project Code 5195886	Issuer TTA	Approved CR	

Project Title DART + SOUTH WEST	
Drawing Title Figure 9.4: Ground Investigation Works Locations Map 05 of 10	
Drawing File Name DP-04-23-DWG-EV-TTA-23741	Version v02
Status S3	

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Legend

Ground Investigation Works Locations

- Dynamic Probe
- ▲ Rotary Core
- ◆ Window Sample

Drawing Notes:

1. Exploratory hole locations are indicative online.
2. All ground investigation locations provided by Atkins Geotechnical Team.
3. Further site specific detail provided in Atkins Ground Investigation Report

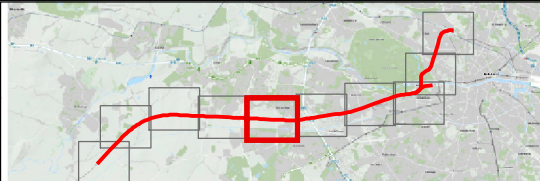


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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client		Engineering Designer	
Iarnród Éireann Irish Rail		ATKINS Member of the SNC-Lavalin Group	
Date: 01/11/2022		Supported by: RPS	
Scale: 1:9,390 @ A3	Drawn: NR	Checked: EH	Approved: CR
Project Code: 5195886	Issuer: TTA	QMS Code:	

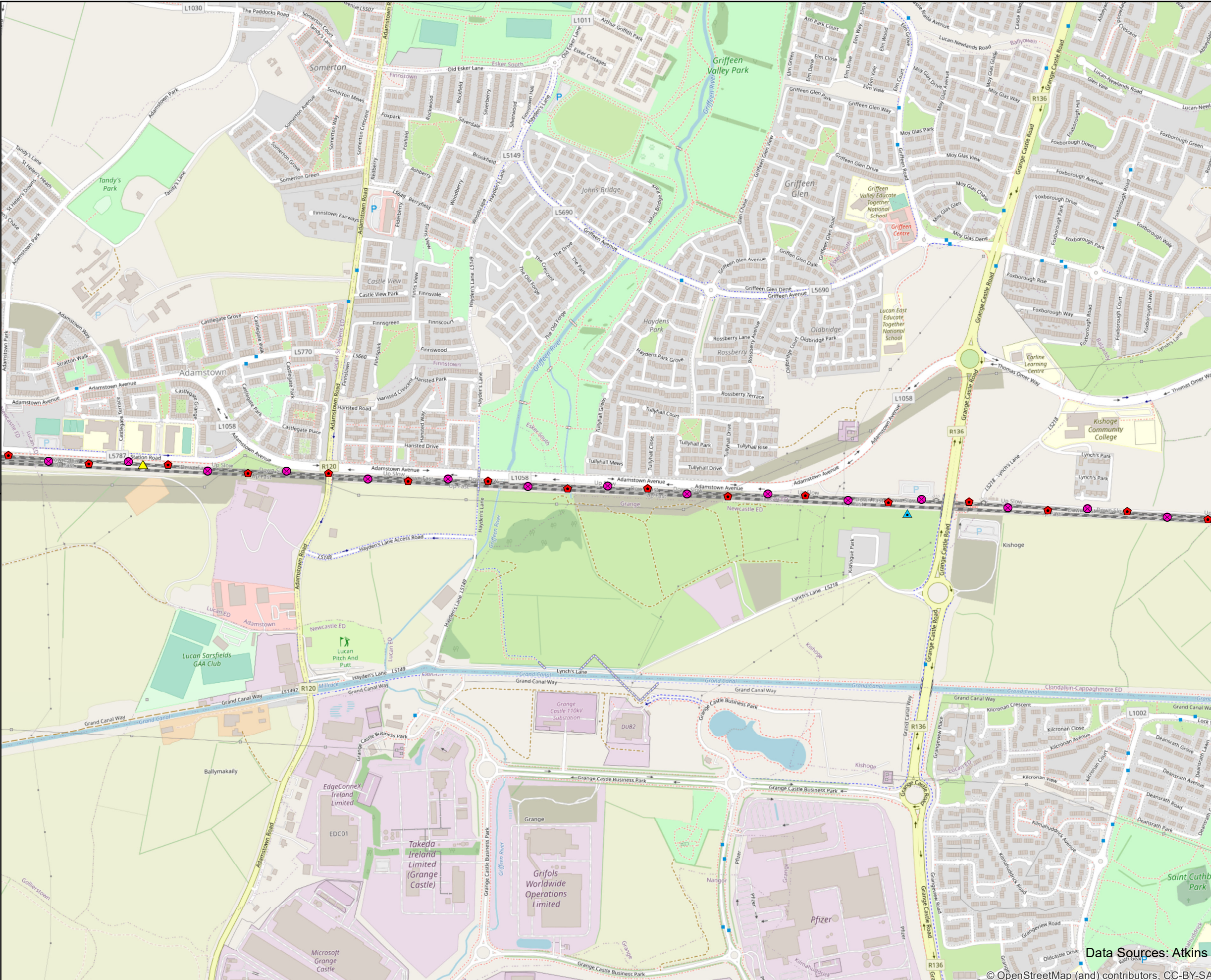
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Drawing Title		Figure 9.4: Ground Investigation Works Locations Map 06 of 10	
Drawing File Name	DP-04-23-DWG-EV-TTA-23741	Version	v02
Status	S3		

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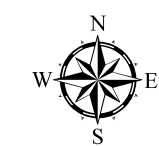
Legend

Ground Investigation Works Locations

- Dynamic Probe
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- ◆ Window Sample



- Drawing Notes:**
1. Exploratory hole locations are indicative online.
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 3. Further site specific detail provided in Atkins Ground Investigation Report



Data Sources: Atkins

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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ATKINS** (Member of the SNC-Lavalin Group) supported by **RPS**

Date: 01/11/2022 | Scale: 1:9,390 @ A3

Project Code: 5195886 | Issuer: TTA

Drawn: NR | Checked: EH | Approved: CR

QMS Code: _____

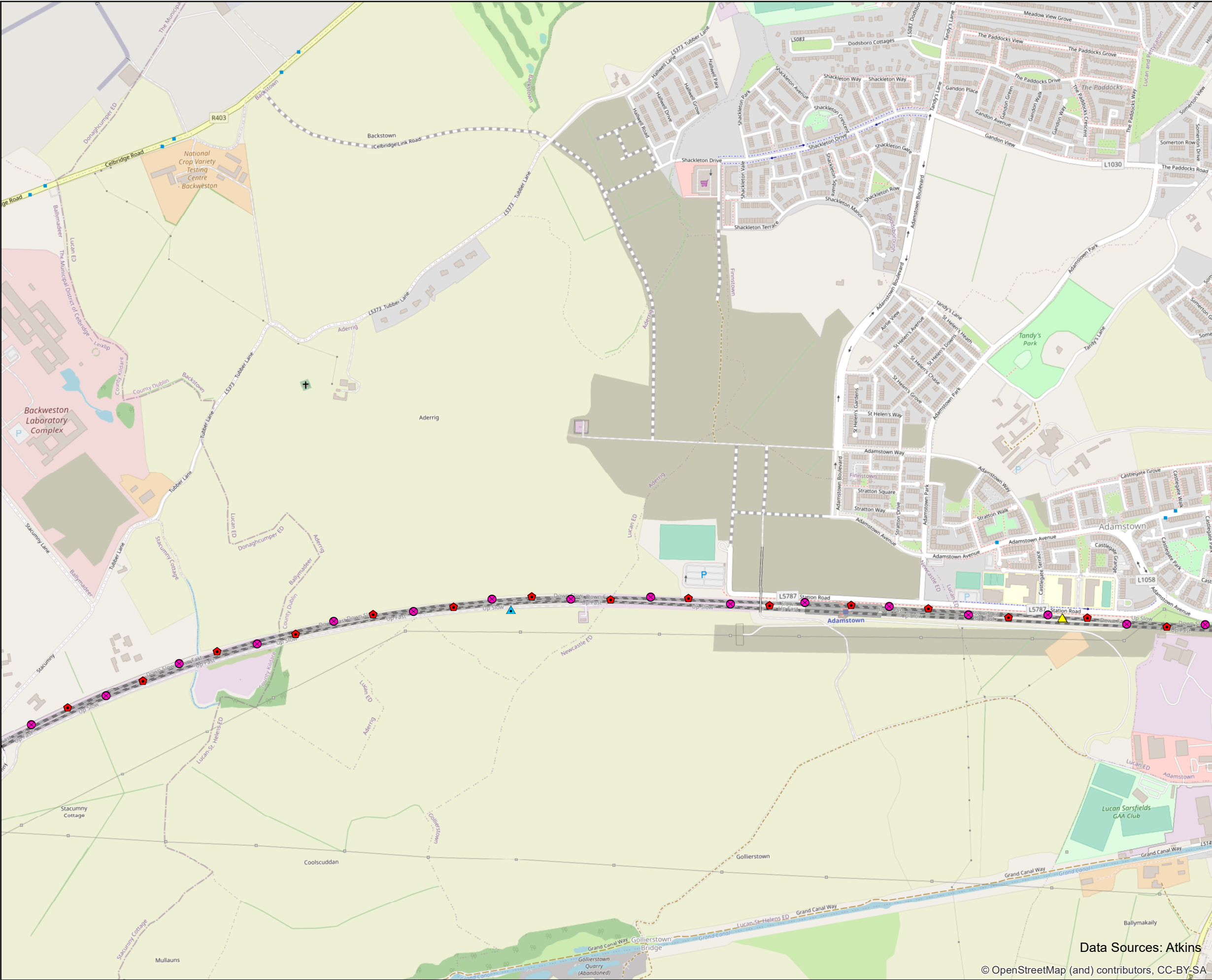
Project Title	DART + SOUTH WEST		
Drawing Title	Figure 9.4: Ground Investigation Works Locations		
	Map 07 of 10		
Drawing File Name	DP-04-23-DWG-EV-TTA-23741	Version	v02
Status	S3		

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Legend

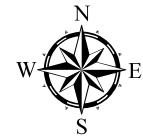
Ground Investigation Works Locations

- Dynamic Probe
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- ◆ Window Sample



Drawing Notes:

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3. Further site specific detail provided in Atkins Ground Investigation Report



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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS Member of the SNC-Lavalin Group		
Date 01/11/2022	Scale 1:9,390 @ A3	Drawn NR	Checked EH	Approved CR
Project Code 5195886	Issuer TTA	Supported by RPS		

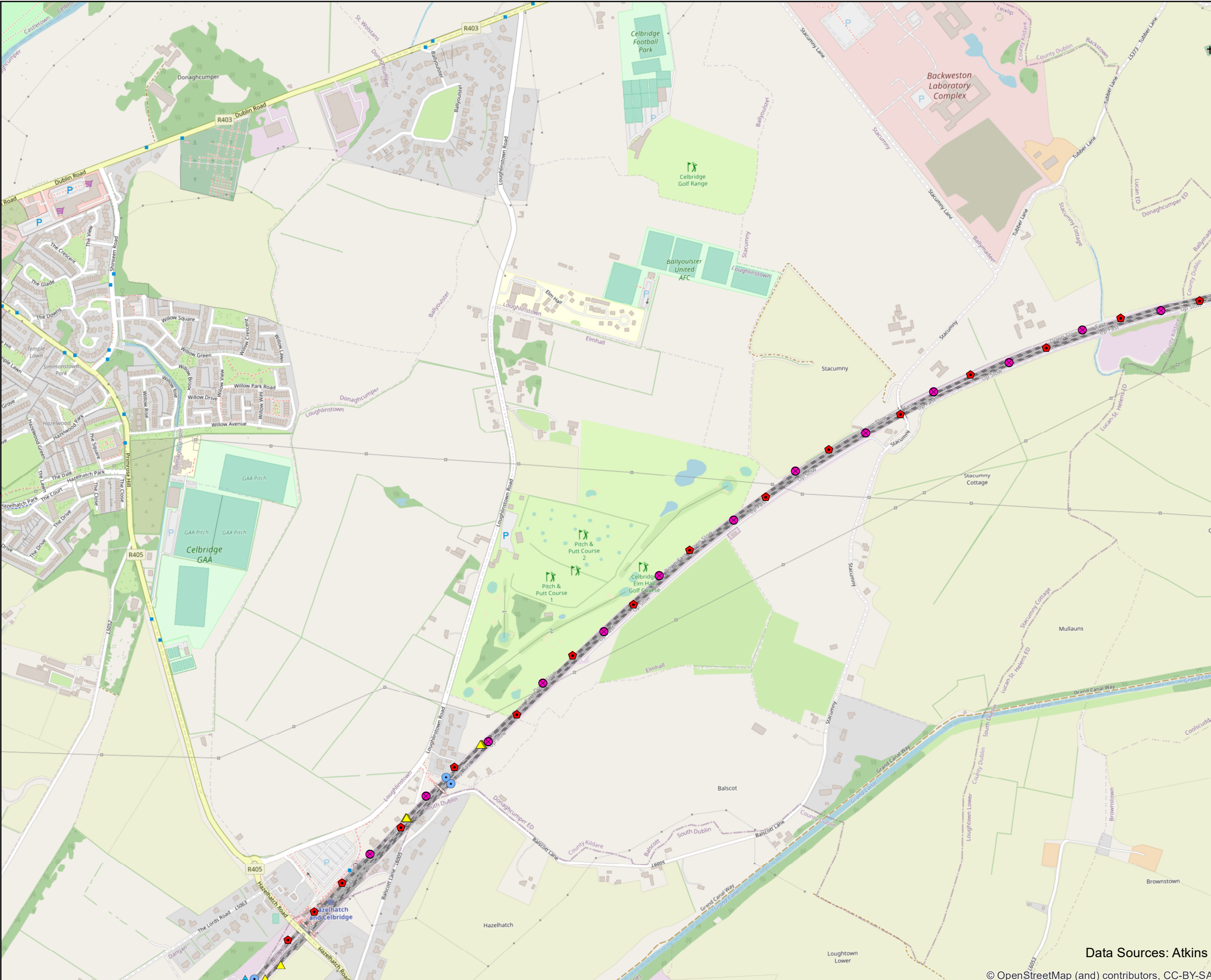
Project Title DART + SOUTH WEST		Version v02	Status S3
Drawing Title Figure 9.4: Ground Investigation Works Locations Map 08 of 10			
Drawing File Name DP-04-23-DWG-EV-TTA-23741		Version v02	Status S3

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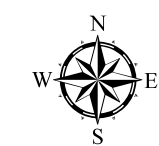
Legend

Ground Investigation Works Locations

- Dynamic Probe
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- Track Bed Inspection
- ◆ Window Sample



Drawing Notes:
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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Client Iarnród Éireann Irish Rail		Engineering Designer ATKINS Member of the SNC-Lavalin Group Supported by: RPS		
Date 01/11/2022	Scale 1:9,390 @ A3	Drawn NR	Checked EH	Approved CR
Project Code 5195886	Issuer TTA	QMS Code		

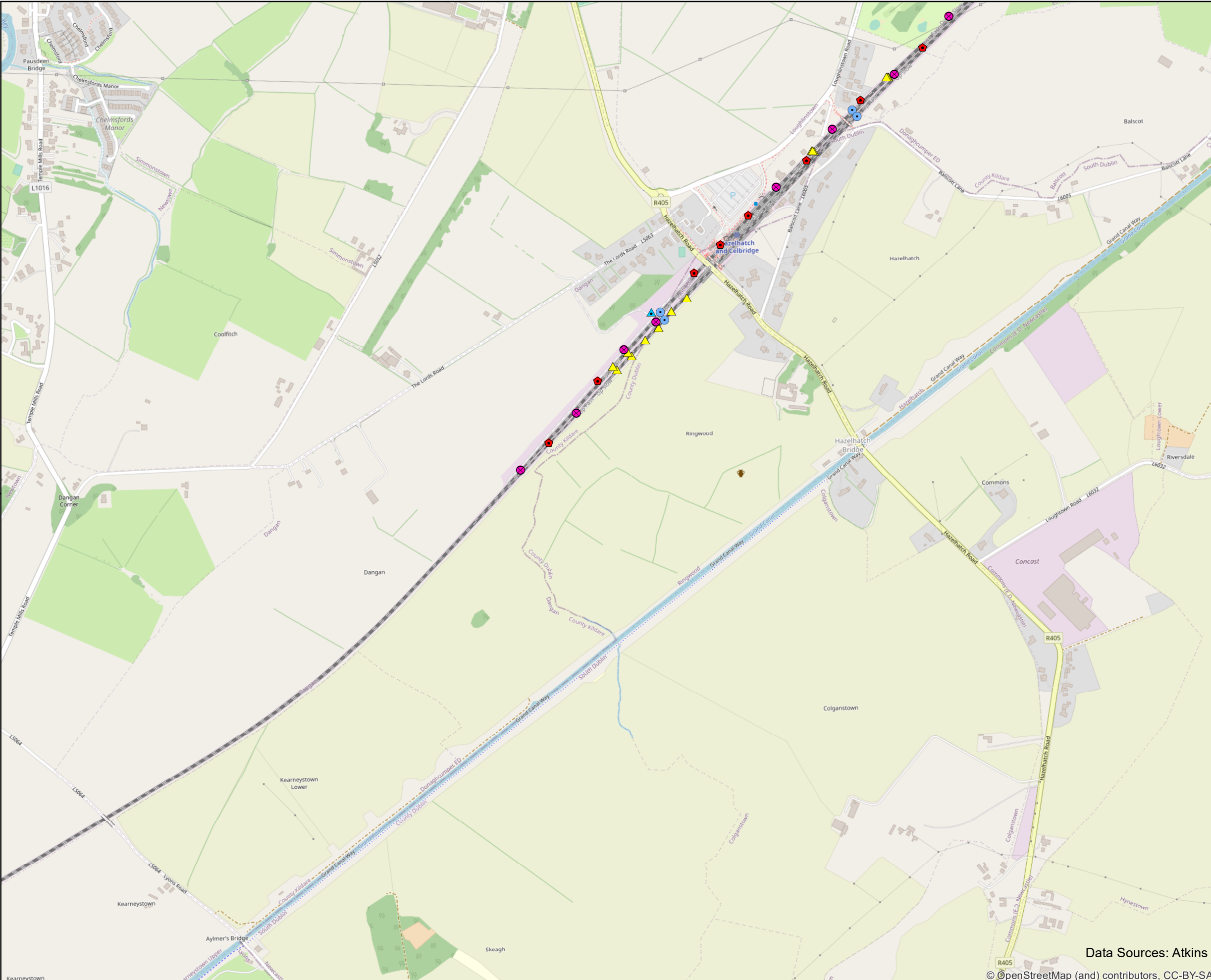
Project Title DART + SOUTH WEST	Version v02	Status S3
Drawing Title Figure 9.4: Ground Investigation Works Locations Map 09 of 10	Drawing File Name DP-04-23-DWG-EV-TTA-23741	

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Legend

Ground Investigation Works Locations

- Dynamic Probe
- ▲ Inspection Pit with DCP
- ▲ Rotary Core
- Track Bed Inspection
- ◆ Window Sample



Drawing Notes:

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Rev	Date	Drn	Chk'd	App'd	Description
v02	28/10/2022	NR	EH	CR	Ground Investigation Works Locations
v01	25/03/2022	NR	EH	CR	Ground Investigation Works Locations

Date: 01/11/2022		Scale: 1:9,390 @ A3	
Project Code: 5195886		Issuer: TTA	
Drawn: NR	Checked: EH	Approved: CR	

Project Title		DART + SOUTH WEST	
Drawing Title			
Figure 9.4: Ground Investigation Works Locations			
Map 10 of 10			
Drawing File Name	DP-04-23-DWG-EV-TTA-23741	Version	v02
Status	S3		

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