

**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 60M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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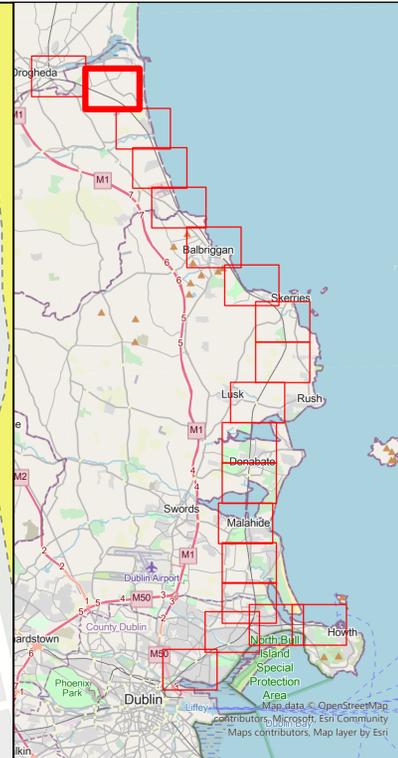
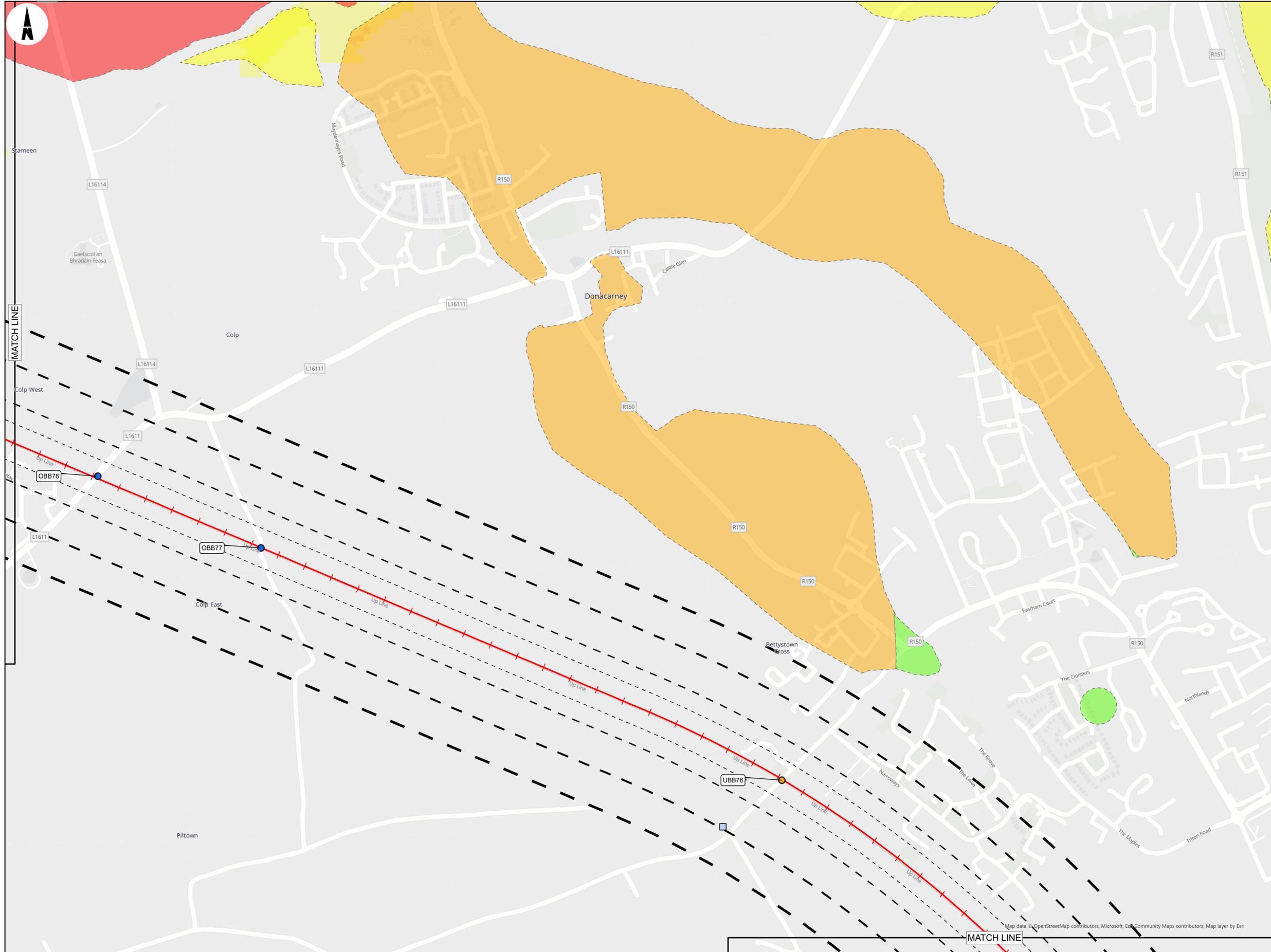


Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client	Engineering Designer	Project Title
		DART+ COASTAL NORTH

Date	Scale	Drawn	Checked	Approved
20/09/2021	1:5000 @ A1 1:10000 @ A3	DM	SH	COD

Project Code	Originator Code	OMS Code	Drawing File Name	Sheet Number	Status	Rev
D+WP56	ARP		D+WP56-ARP-ZZ-NL-OR-EV-000301	1 of 19	902	P03



**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
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- RAILWAY LINE
- BUFFERS
  - 50M
  - 100M
  - 200M
  - 300M
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  - GSI LANDSLIDE EVENTS
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  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
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P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 | Scale: 1:5000 @ A1 | 1:10000 @ A3

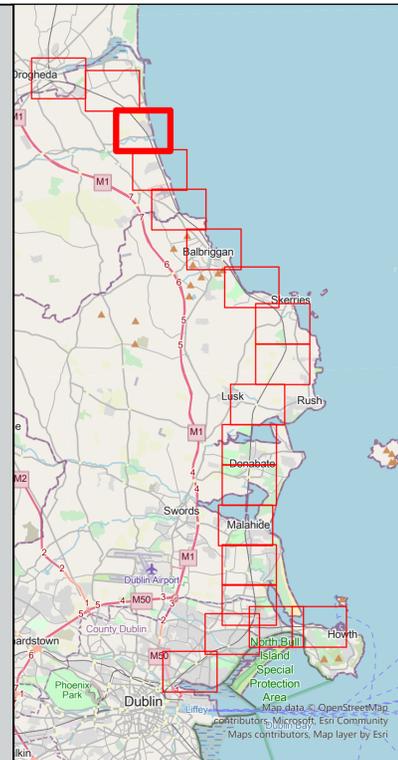
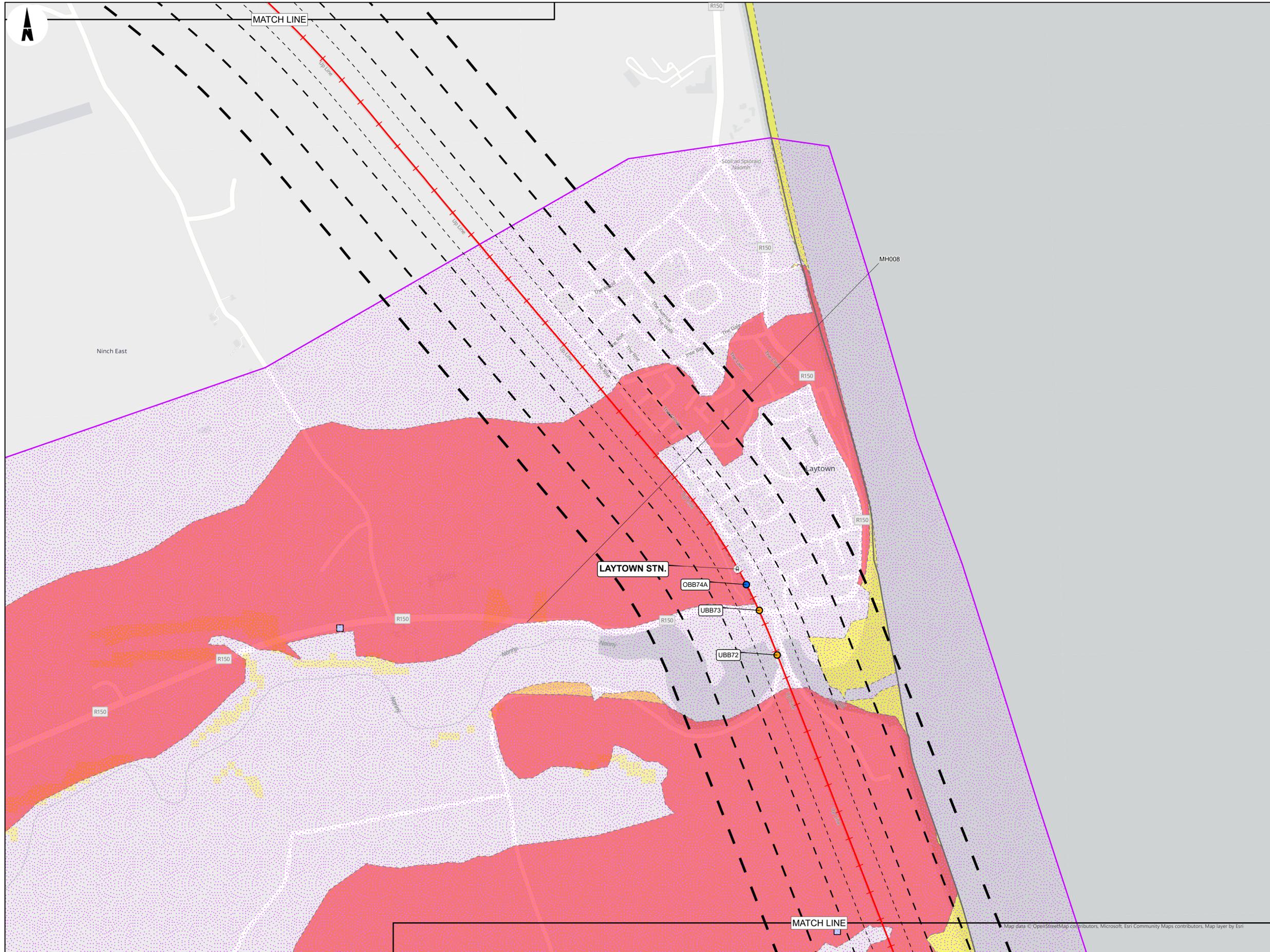
Project Code: D+WP56 | Originator Code: ARP | QMS Code: 279933-00

Drawn: DM | Checked: SH | Approved: COD

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000302 | Sheet Number: 2 of 19 | Status: 902 | Rev: P03



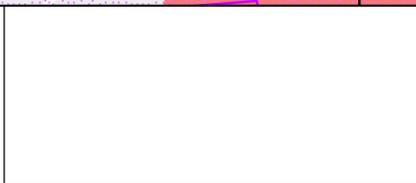
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Tionscadal Éireann Project Ireland 2040

Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 | Scale: 1:5000 @ A1 | 1:10000 @ A3

Project Code: D+WP56 | Originator Code: ARP

Drawn: DM | Checked: SH | Approved: COD

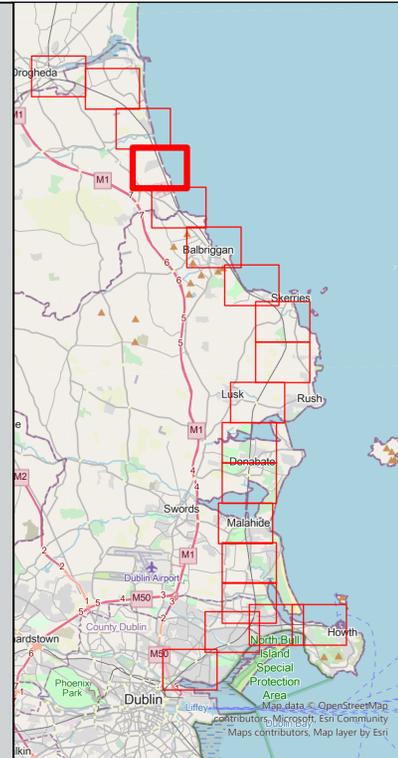
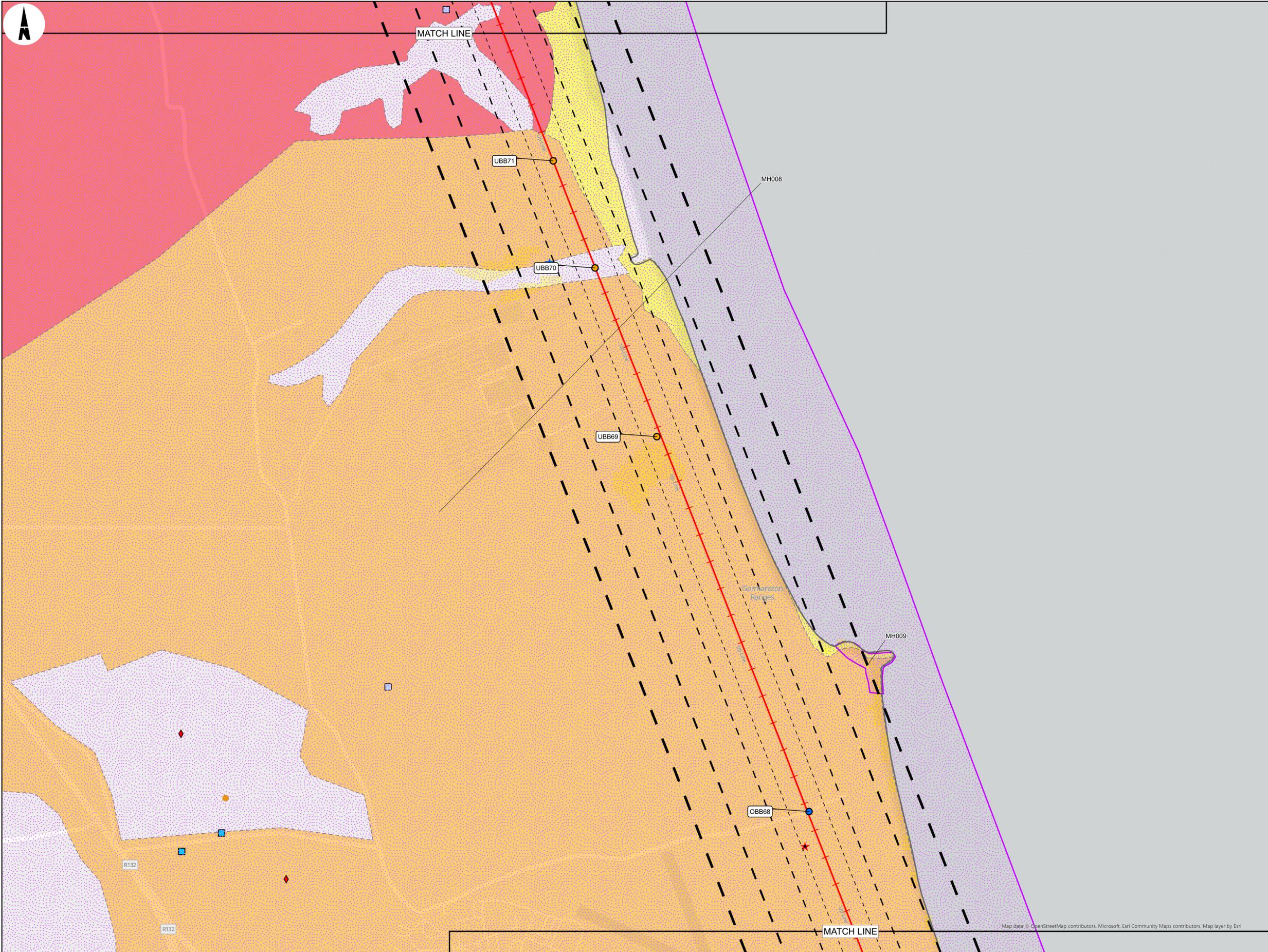
QMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000303

Sheet Number: 3 of 19 | Status: 902 | Rev: P03



**LEGEND**

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- BRIDGES
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- RAILWAY LINE
- BUFFERS
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  - DIM. DIMENSION STONE
  - SG. SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
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  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
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  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
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  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
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Rev	Date	Drn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **larnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 Scale: 1:5000 @ A1 / 1:10000 @ A3

Project Code: D+WP56 Originator Code: ARP

Drawn: DM Checked: SH Approved: COD

QMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

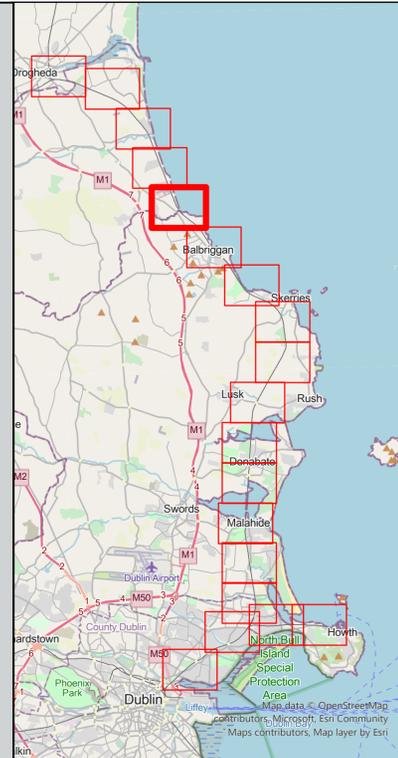
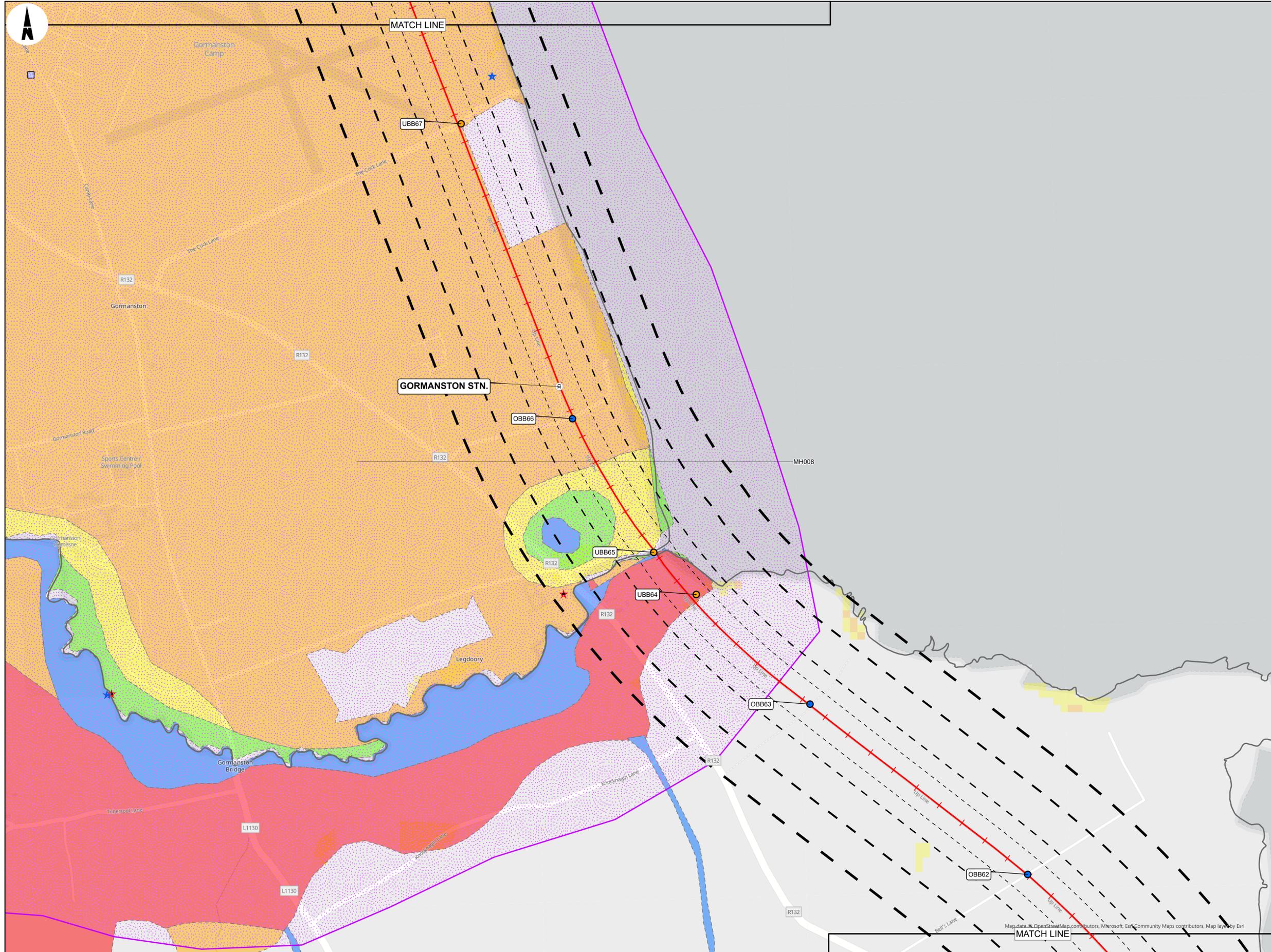
Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000304

Sheet Number: 4 of 19

Status: 902

Rev: P03



**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
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- BUFFERS
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  - MODERATELY HIGH
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P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **larnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 Scale: 1:5000 @ A1, 1:10000 @ A3

Project Code: D+WP56 Originator Code: ARP

Drawn: DM Checked: SH Approved: COD

QMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

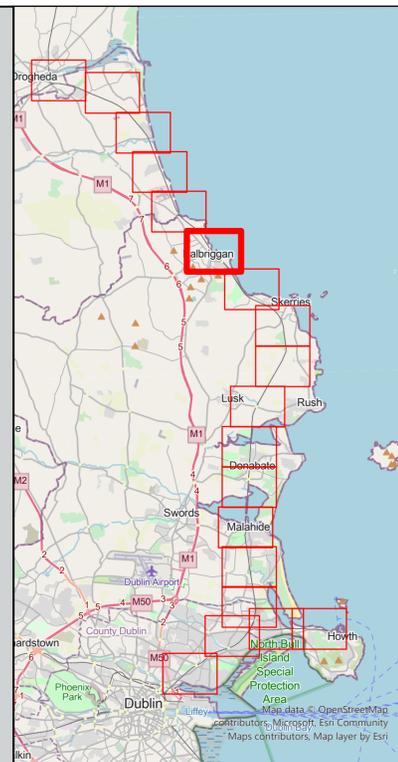
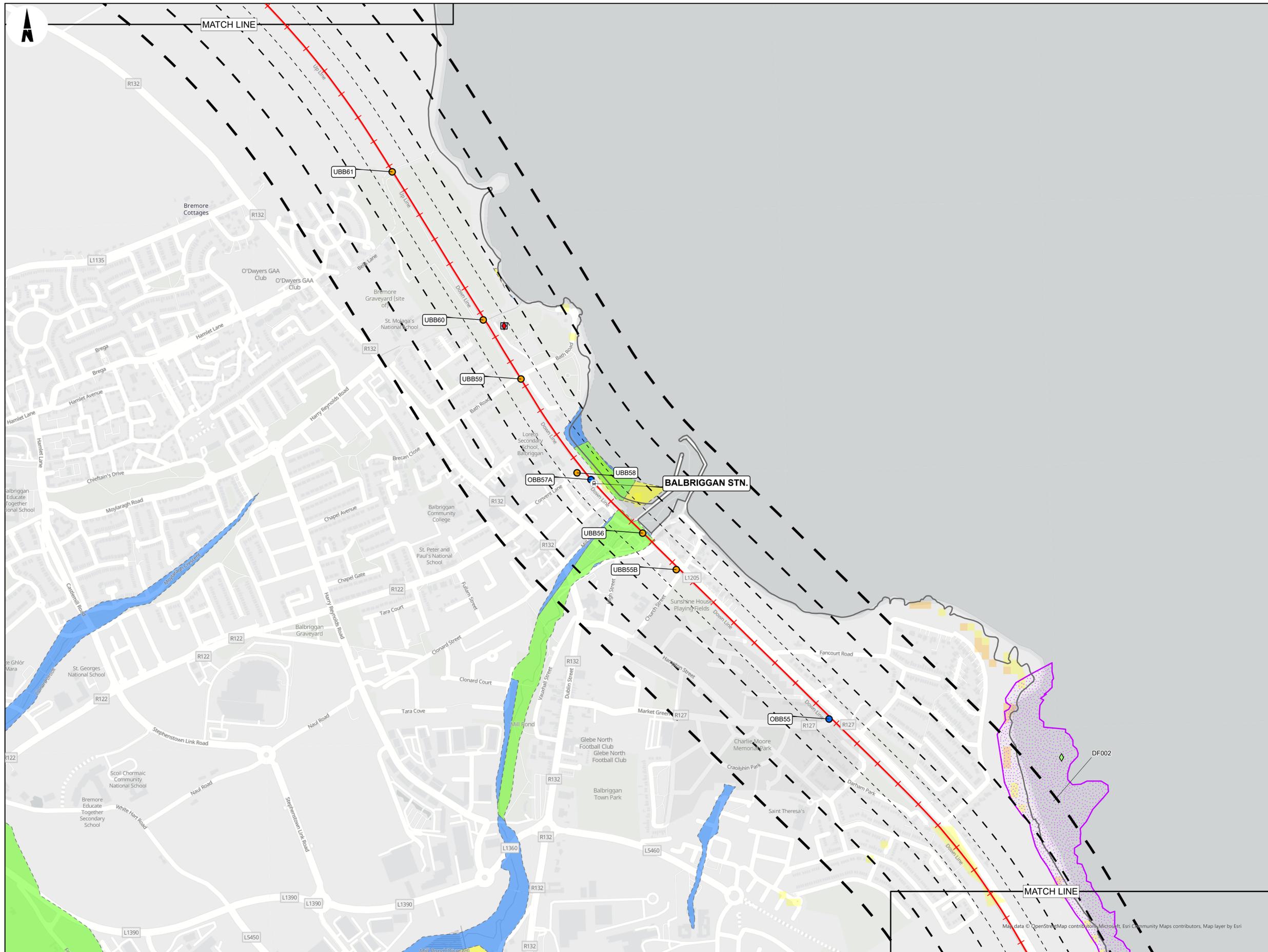
Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000305

Sheet Number: 6 of 19

Status: 902

Rev: P03



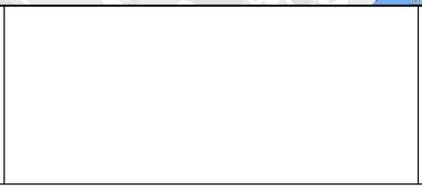
**LEGEND**

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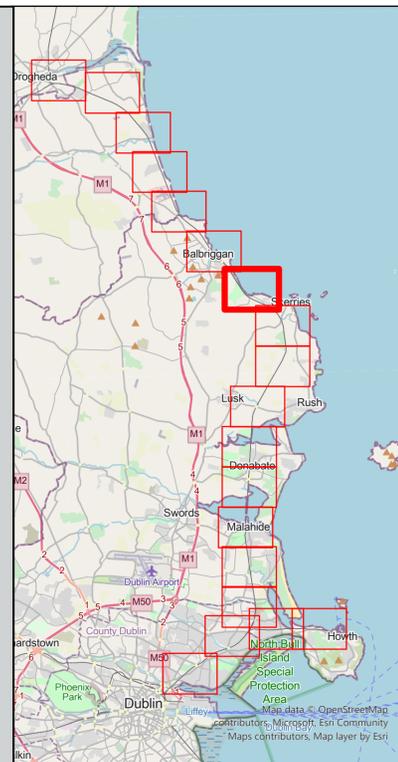
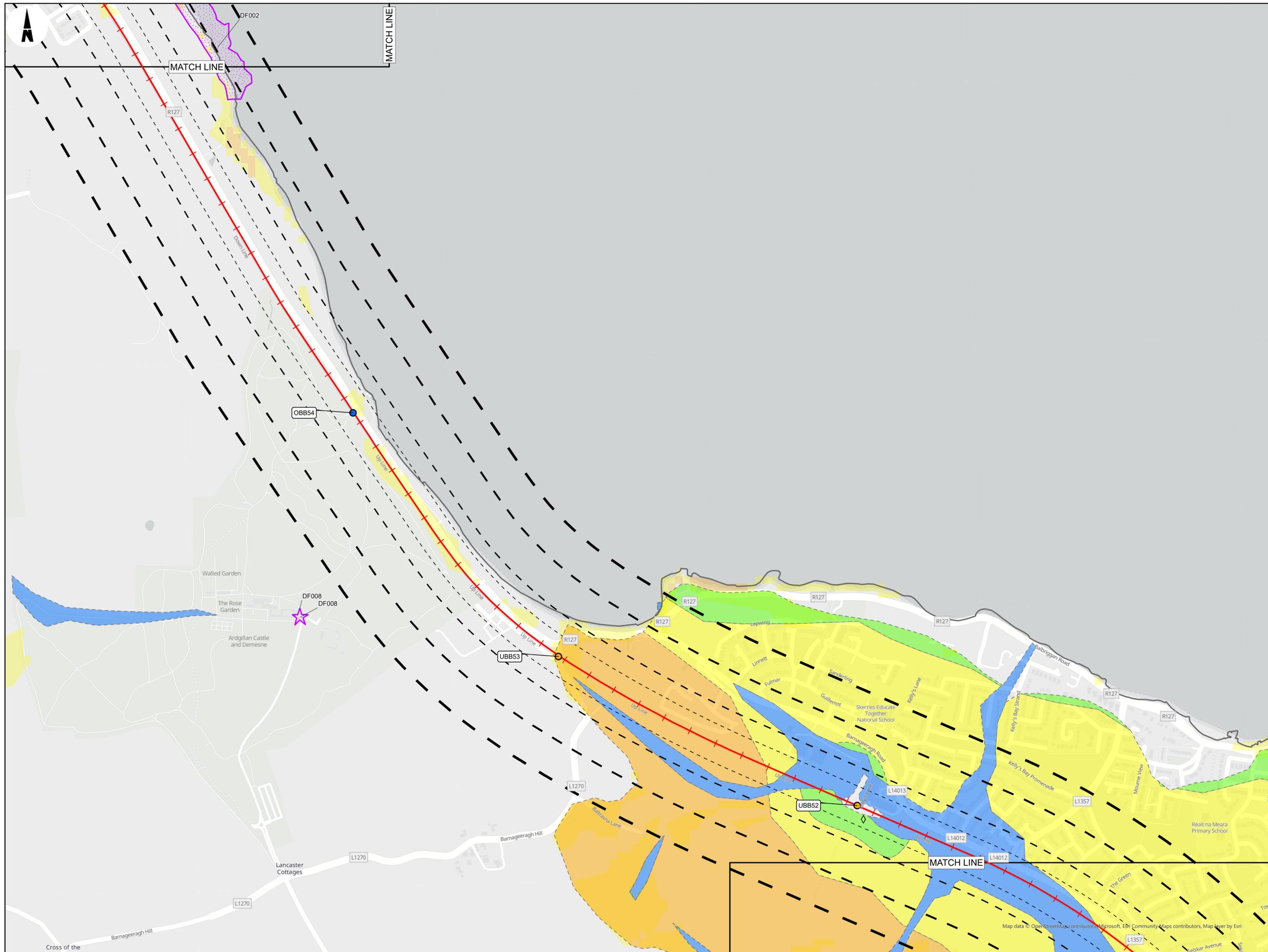


Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client		Engineering Designer		Project Title	
Iarnród Éireann Irish Rail		ARUP		DART+ COASTAL NORTH	
Date	20/09/2021	Scale	1:5000 @ A1 1:10000 @ A3	Drawn	DM
Project Code	D+WP56	Originator Code	ARP	Checked	SH
				Approved	COD

Drawing File Name	D+WP56-ARP-ZZ-NL-OR-EV-000306	Sheet Number	6 of 19	Status	902	Rev	P03
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CONSTRAINTS REPORT  
GEOLOGICAL CONSTRAINTS  
OPEN STREET MAP BASEMAP



**LEGEND**

- RAILWAY STATIONS
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  - UNDERBRIDGE
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- BUFFERS
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Rev	Date	Dn	Ch'd	App'd	Description

Client: **larród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 | Scale: 1:5000 @ A1, 1:10000 @ A3

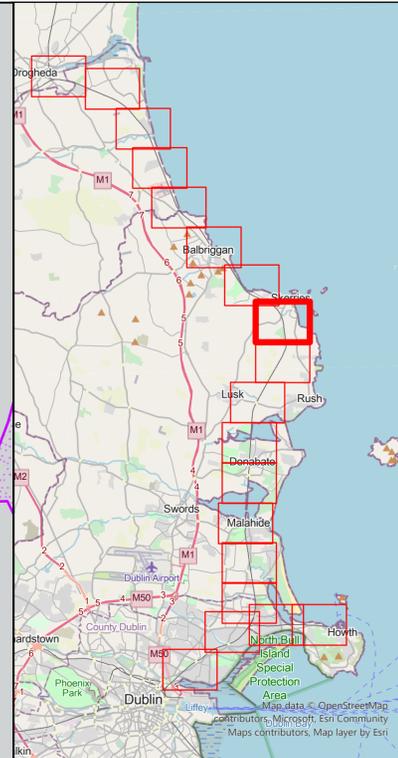
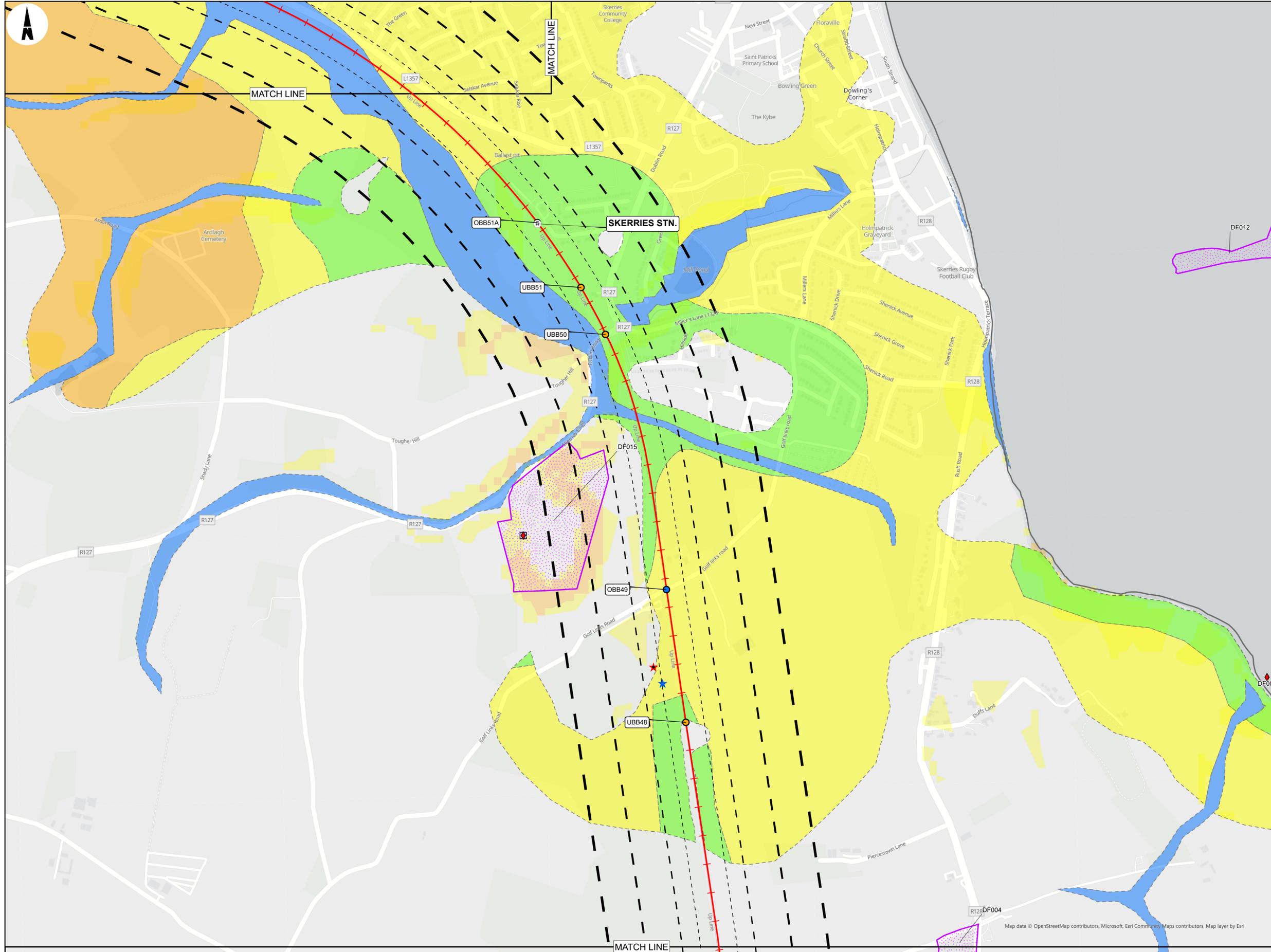
Project Code: D+WP56 | Originator Code: ARP | QMS Code: 279933-00

Drawn: DM | Checked: SH | Approved: COD

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000307 | Sheet Number: 7 of 19 | Status: 902 | Rev: P03



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Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

**DART+ Coastal North**

**NTA** *Udairis Náisiúnta Iomparáil*  
National Transport Authority

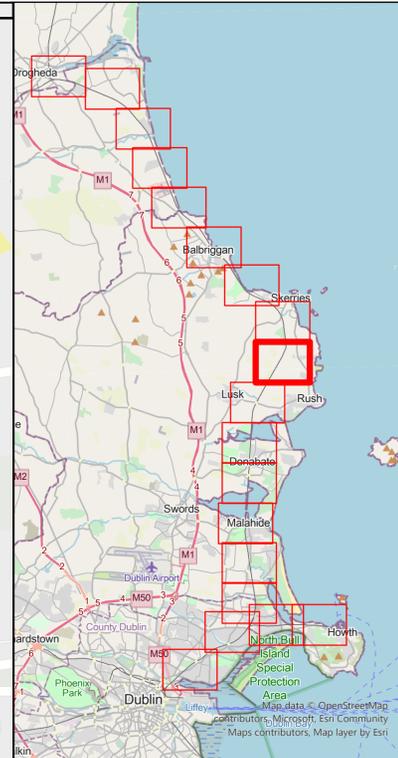
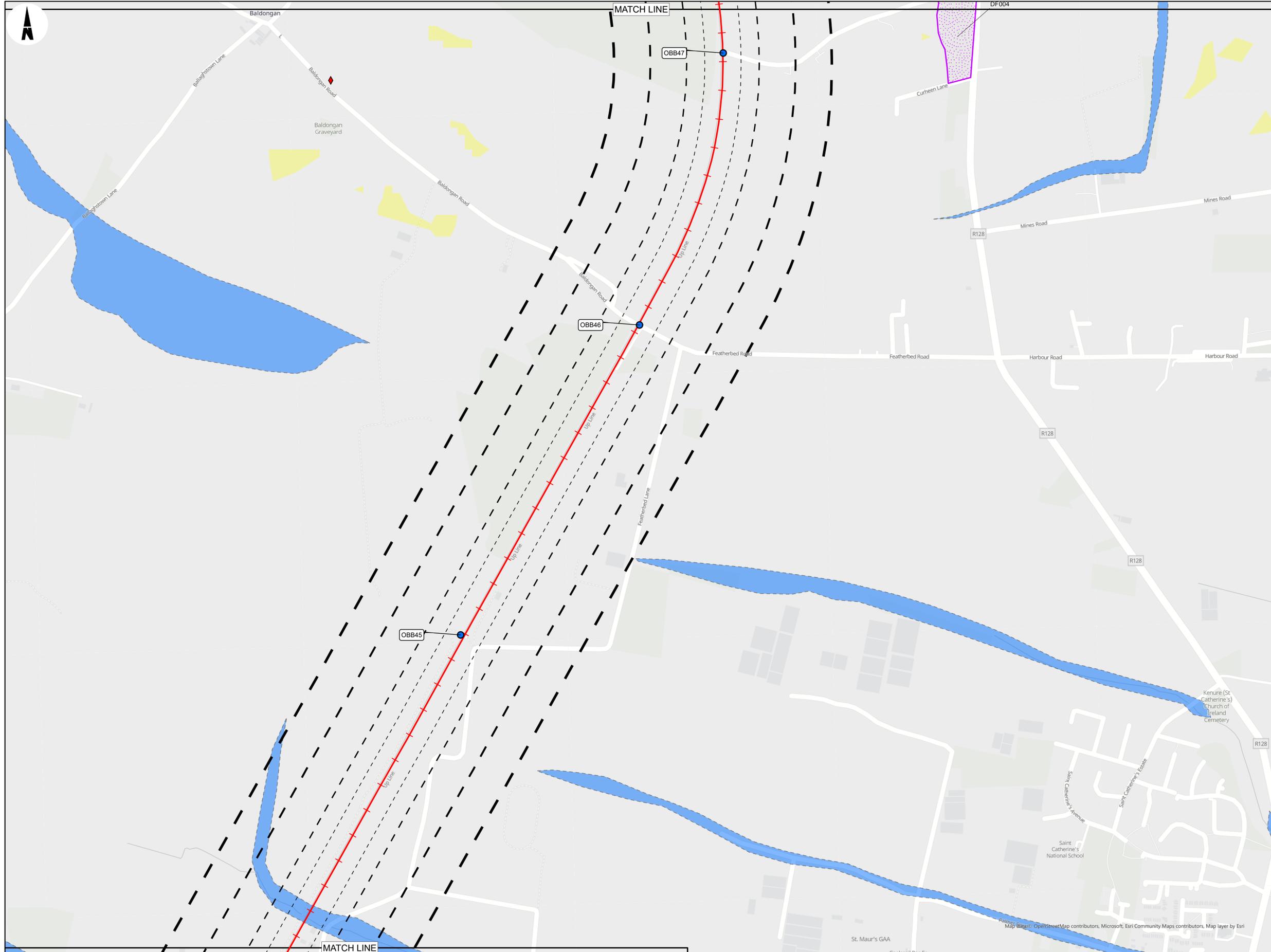
**Tionscail Eireann Project Ireland 2040**

Client	<b>Iarnród Éireann Irish Rail</b>		
Engineering Designer	<b>ARUP</b>		
Date	20/09/2021	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WPS6	Originator Code	ARP
QMS Code		Drawn	DM
		Checked	SH
		Approved	COD

Project Title	<b>DART+ COASTAL NORTH</b>		
Drawing Title	<b>CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP</b>		
Drawing File Name	D+WPS6-ARP-ZZ-NL-OR-EV-000308	Sheet Number	8 of 19
Status	902	Rev	P03

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**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 50M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 | Scale: 1:5000 @ A1, 1:10000 @ A3

Project Code: D+WP56 | Originator Code: ARP

Drawn: DM | Checked: SH | Approved: COD

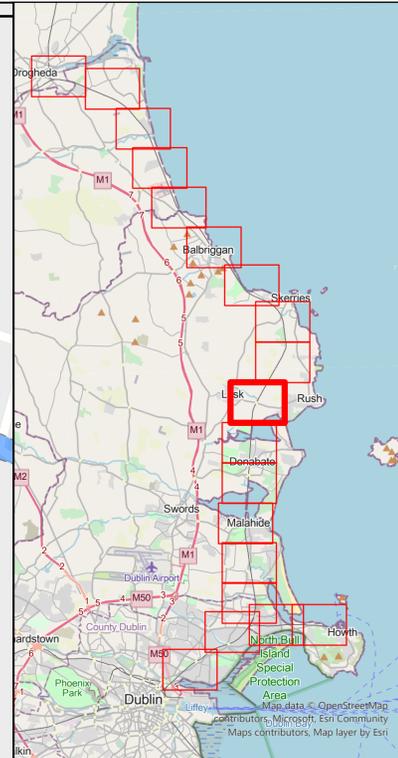
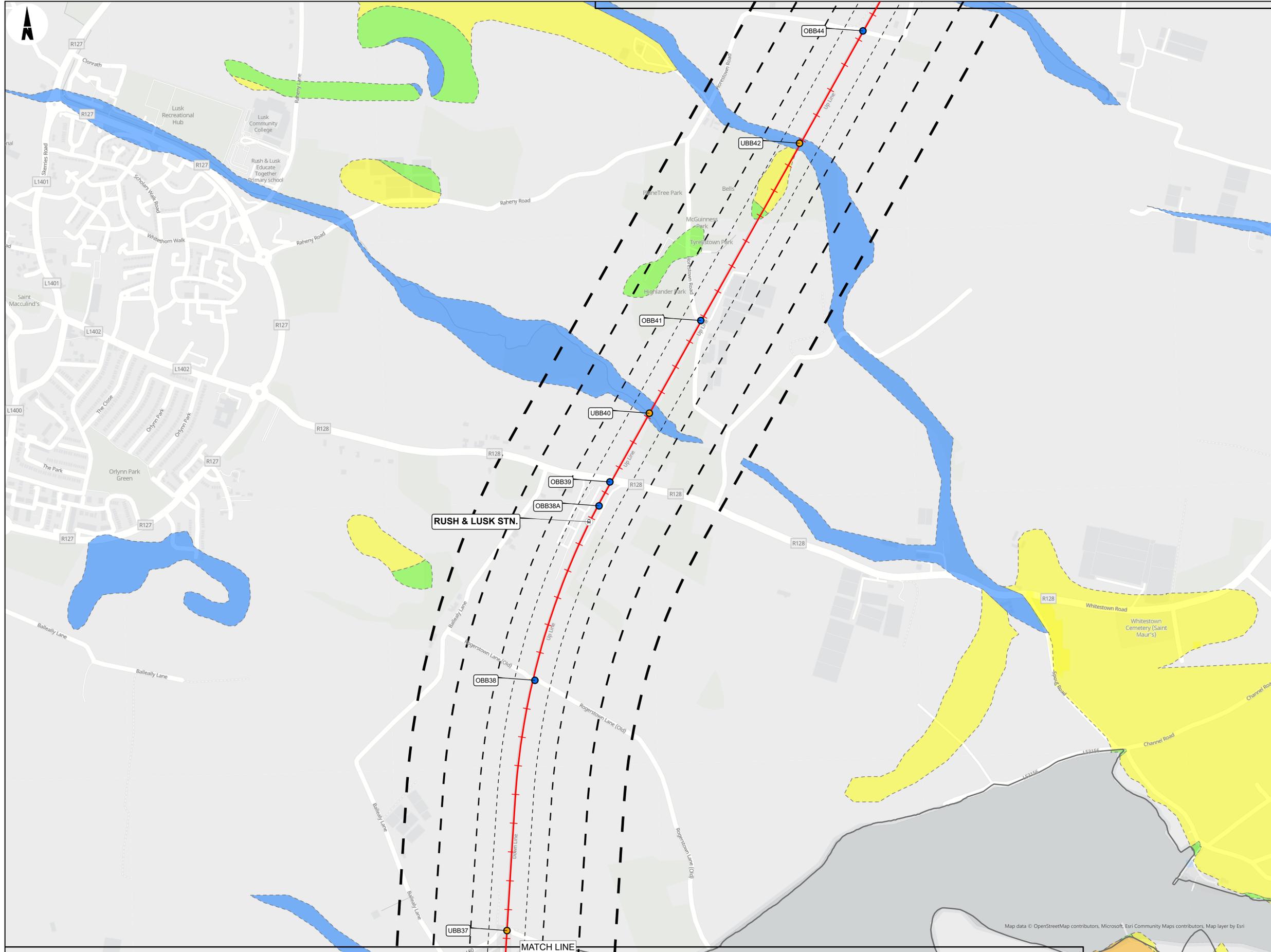
QMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT  
GEOLOGICAL CONSTRAINTS  
OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000309

Sheet Number: 9 of 19 | Status: 902 | Rev: P03



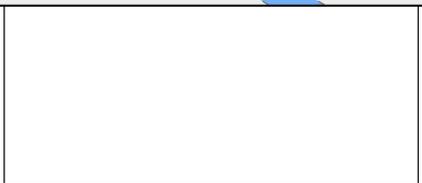
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- RAILWAY STATIONS**
  - RAILWAY STATIONS
- BRIDGES**
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE**
  - RAILWAY LINE
- BUFFERS**
  - 50M
  - 100M
  - 200M
  - 300M
- BOUNDARIES**
  - ADMINISTRATIVE BOUNDARY
  - COUNTY BOUNDARY
- MINERAL LOCATIONS**
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)**
- QUARRIES**
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS**
  - CR. CRUSHED ROCK
  - DIM. DIMENSION STONE
  - SG. SAND AND GRAVEL
- DISCHARGE POINTS**
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE**
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND**
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY**
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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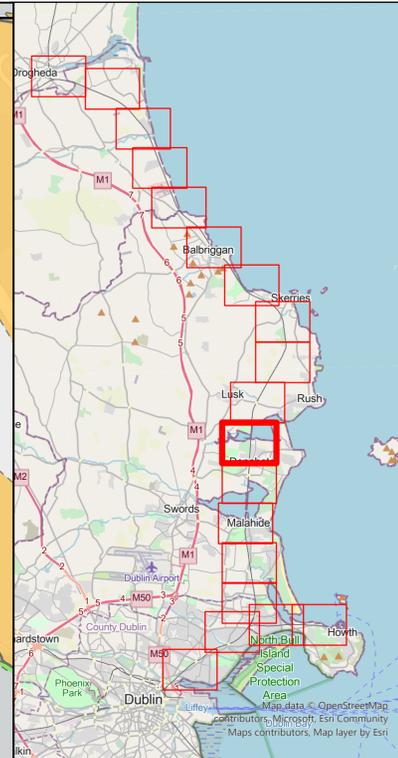
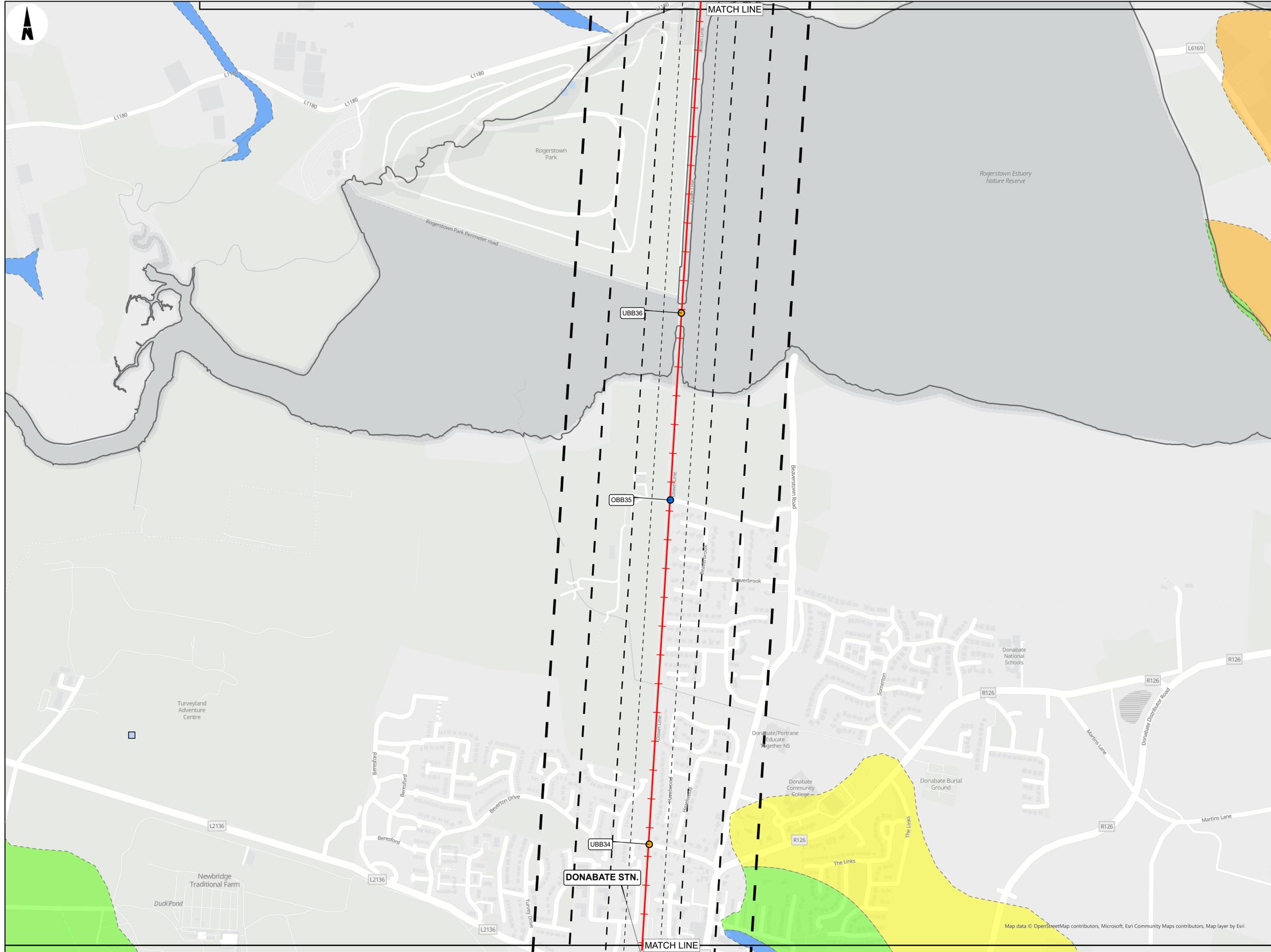


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P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client		Engineering Designer		Project Title	
Iarnród Éireann Irish Rail		ARUP		DART+ COASTAL NORTH	
Date	Scale	Drawn	Checked	Approved	
20/09/2021	1:5000 @ A1 1:10000 @ A3	DM	SH	COD	
Project Code	Originator Code	QMS Code		Drawing File Name	
D+WP56	ARP	279933-00		D+WP56-ARP-ZZ-NL-OR-EV-000310	

Sheet Number	Status	Rev
10 of 19	902	P03

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**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 50M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 Scale: 1:5000 @ A1 / 1:10000 @ A3

Project Code: D+WP56 Originator Code: ARP

QMS Code: 279933-00

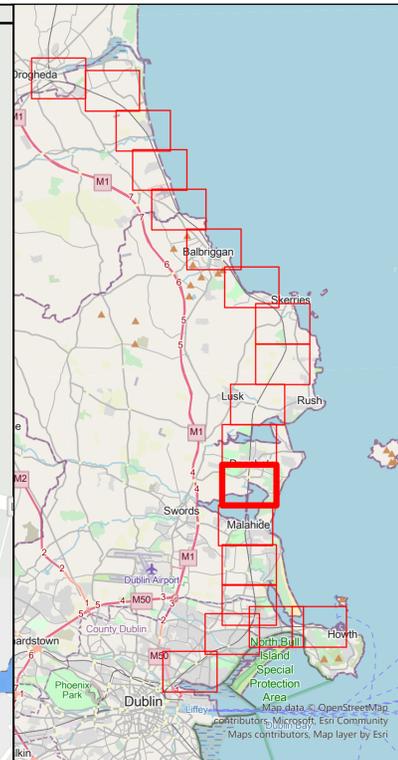
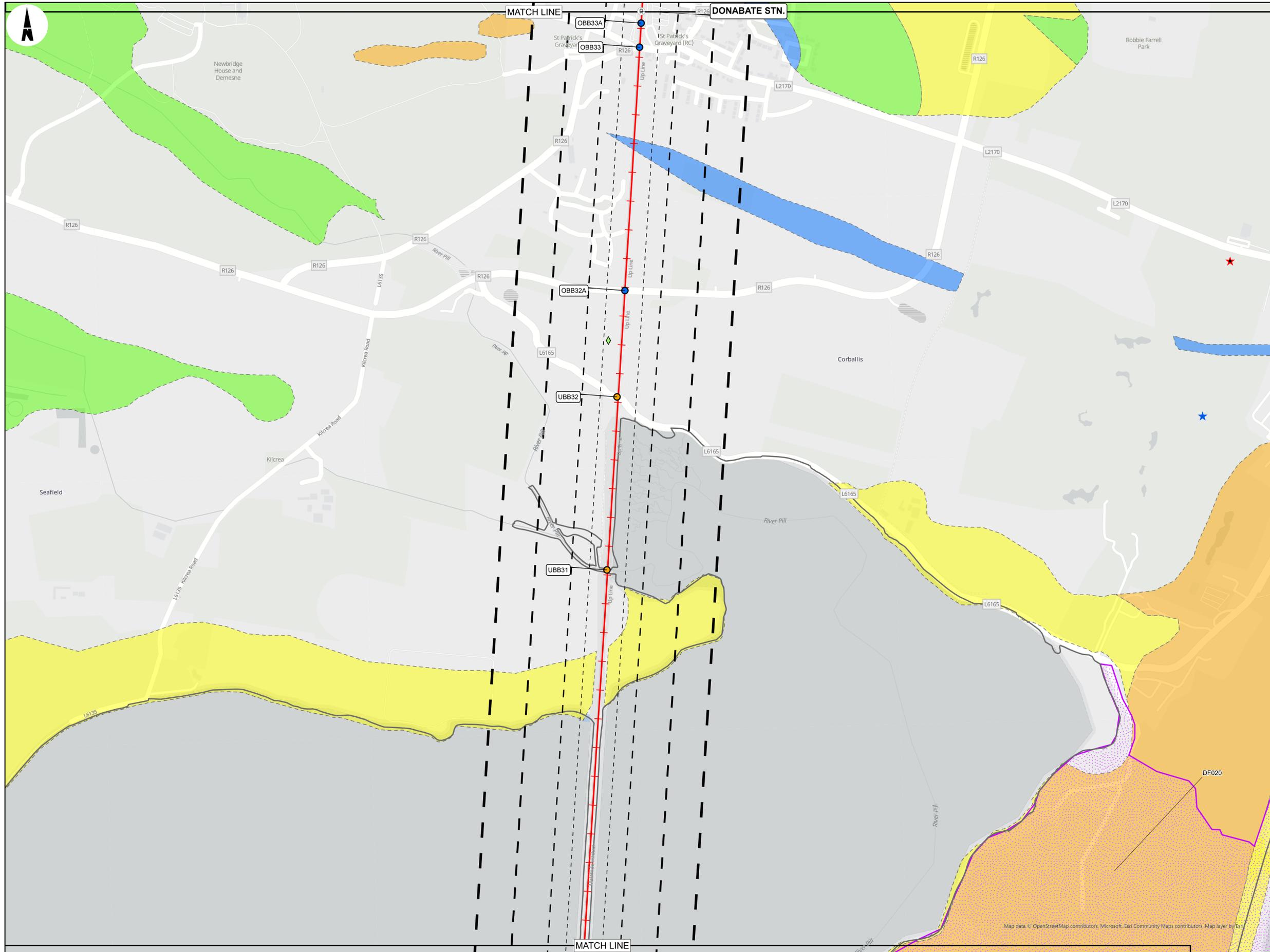
Drawn: DM Checked: SH Approved: COD

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000311

Sheet Number: 11 of 19 Status: 902 Rev: P03



**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 50M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

**DART+ Coastal North**

**NTA**  
Udairis Náisiúnta Iompartha  
National Transport Authority

**Tionscail Éireann**  
Project Ireland  
**2040**

Date	20/09/2021	Scale	1:5000 @ A1 1:10000 @ A3
Project Code	D+WP56	Originator Code	ARP

Client: **Irish Rail**

Engineering Designer: **ARUP**

Drawn	DM	Checked	SH	Approved	COD
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QMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT  
GEOLOGICAL CONSTRAINTS  
OPEN STREET MAP BASEMAP**

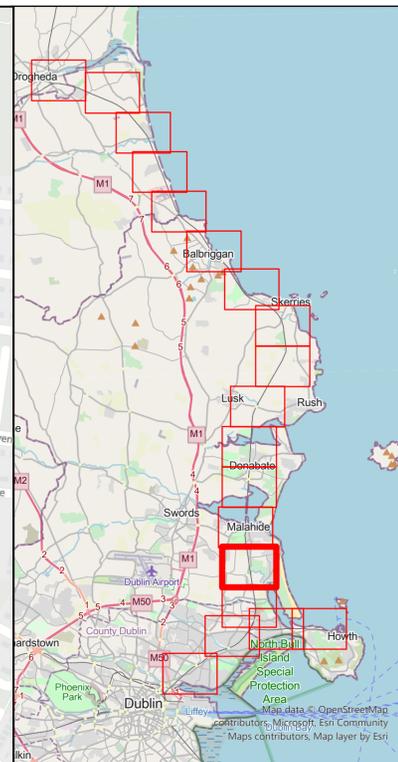
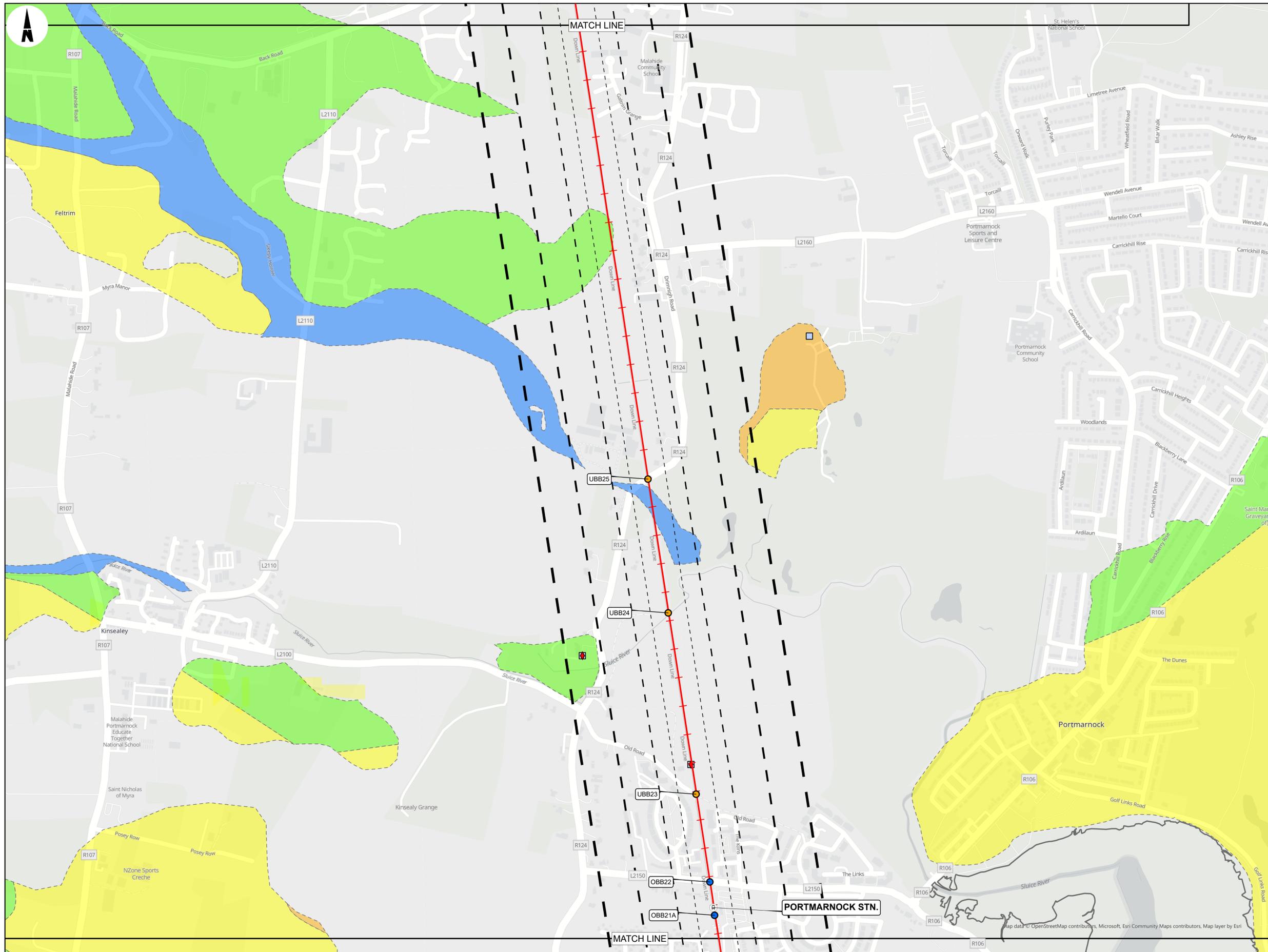
Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000312

Sheet Number: 12 of 19

Status: 902

Rev: P03





**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 50M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 Scale: 1:5000 @ A1 1:10000 @ A3

Project Code: D+WP56 Originator Code: ARP

Drawn: DM Checked: SH Approved: COD

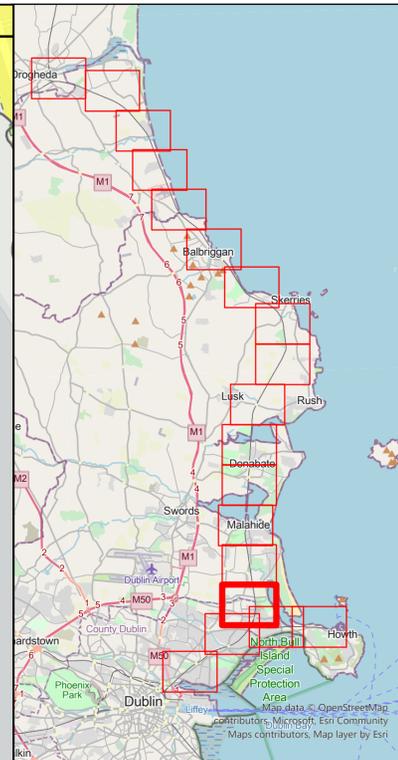
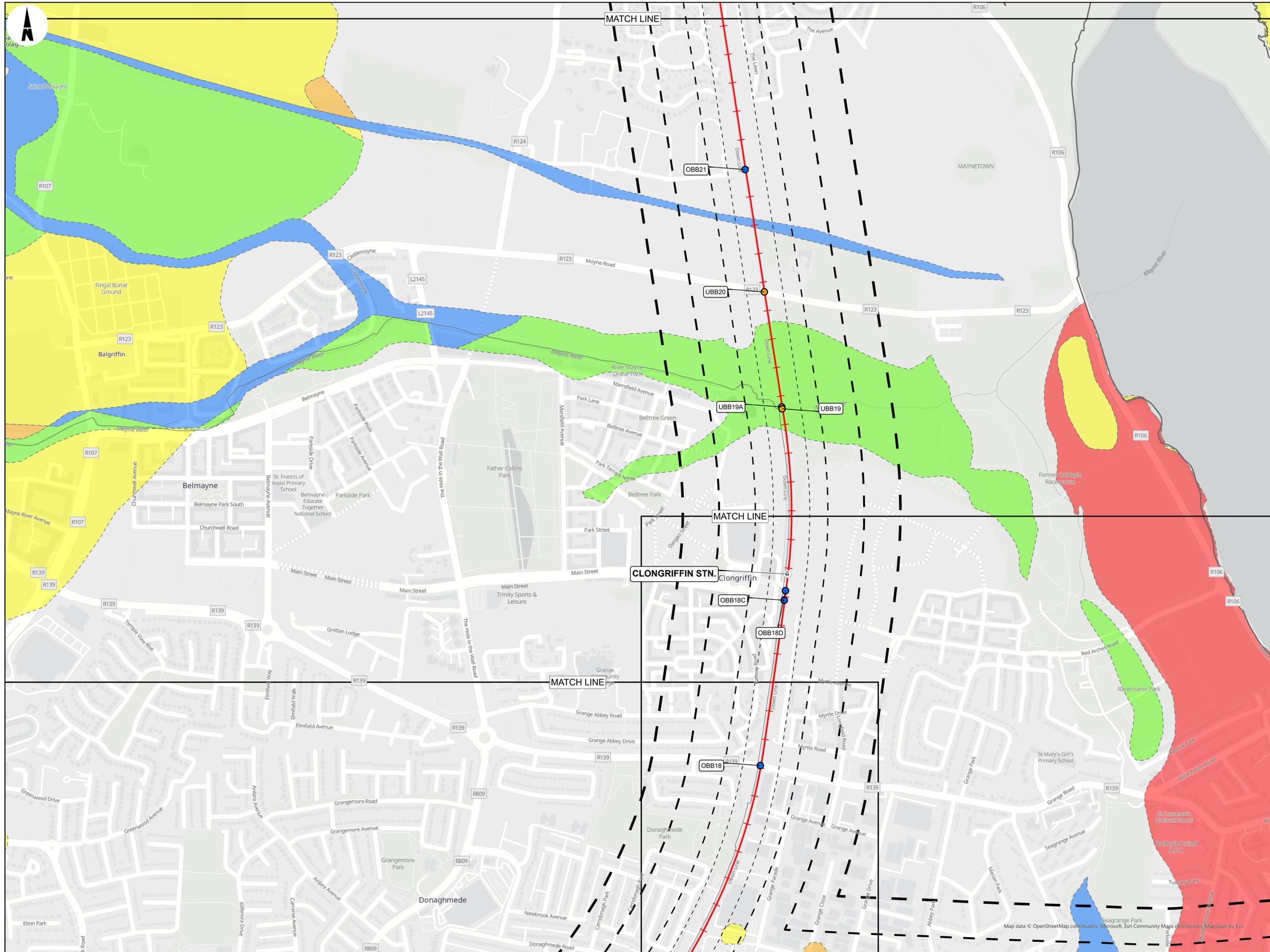
OMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000314

Sheet Number: 14 of 19 Status: 902 Rev: P03



**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 60M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **larród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 | Scale: 1:5000 @ A1 | 1:10000 @ A3

Project Code: D-WP56 | Originator Code: ARP

Drawn: DM | Checked: SH | Approved: COD

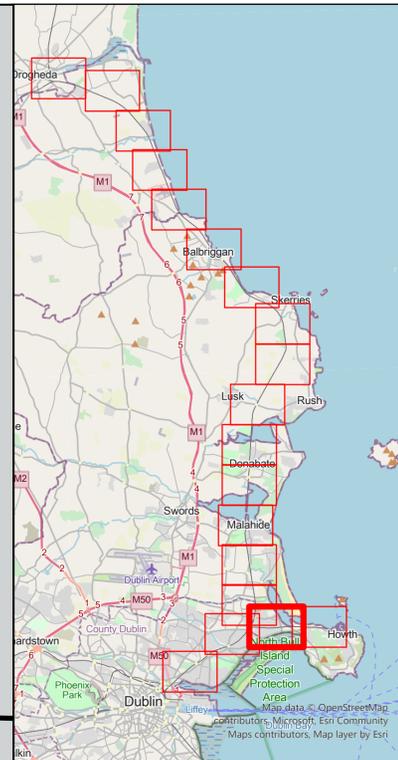
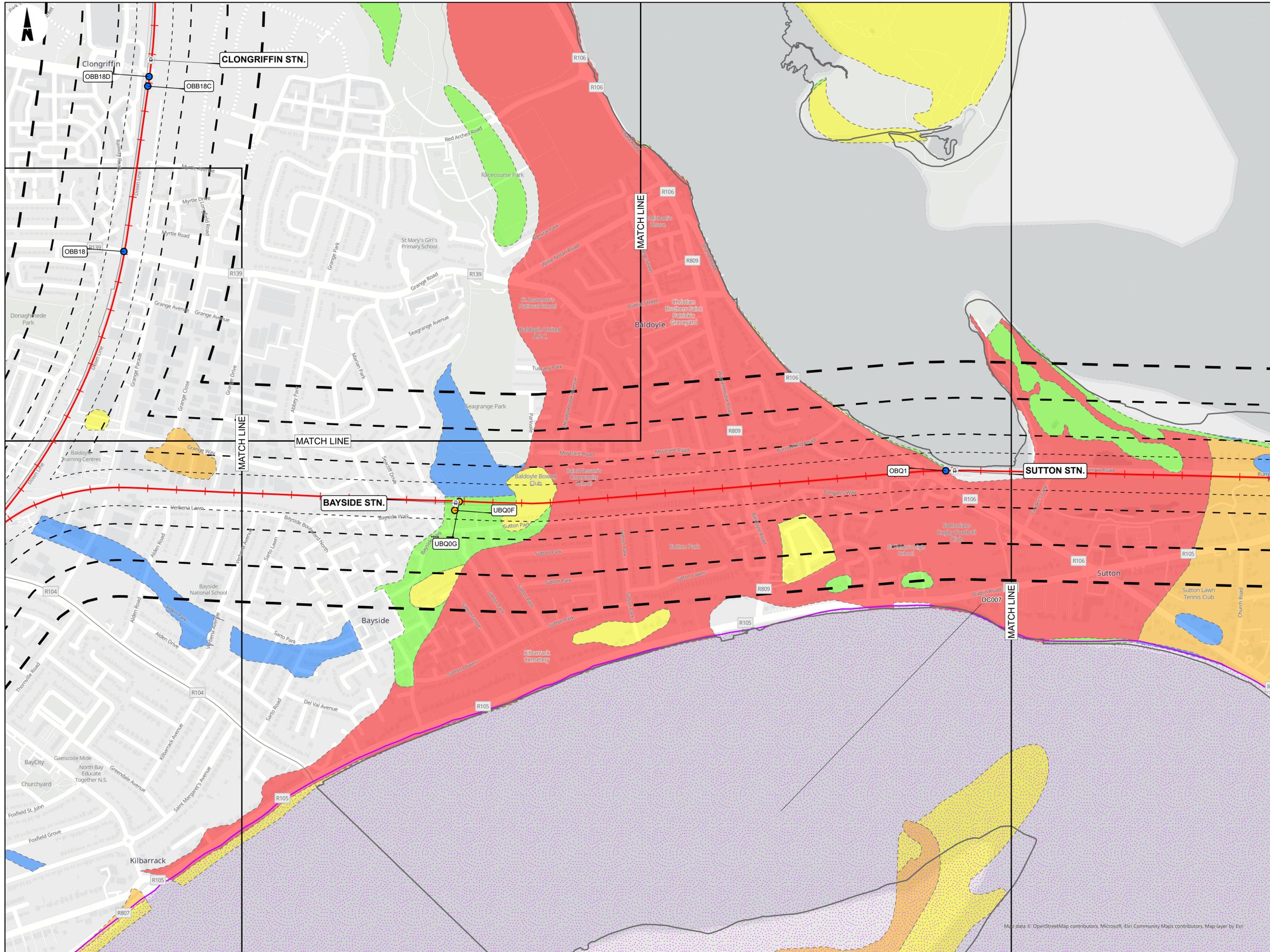
OMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT GEOLOGICAL CONSTRAINTS OPEN STREET MAP BASEMAP**

Drawing File Name: D-WP56-ARP-ZZ-NL-OR-EV-000315

Sheet Number: 15 of 19 | Status: 902 | Rev: P03



**LEGEND**

- RAILWAY STATIONS**
  - RAILWAY STATIONS
- BRIDGES**
  - OVERBRIDGE
  - UNDERBRIDGE
  - RAILWAY LINE
- BUFFERS**
  - 60M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY**
- COUNTY BOUNDARY**
- MINERAL LOCATIONS**
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)**
- QUARRIES**
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS**
  - CR, CRUSHED ROCK
  - DIM, DIMENSION STONE
  - SG, SAND AND GRAVEL
- DISCHARGE POINTS**
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE**
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND**
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY**
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

**DART+ Coastal North**

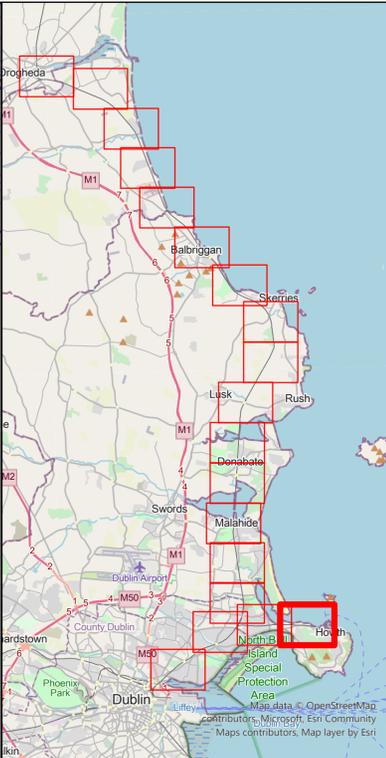
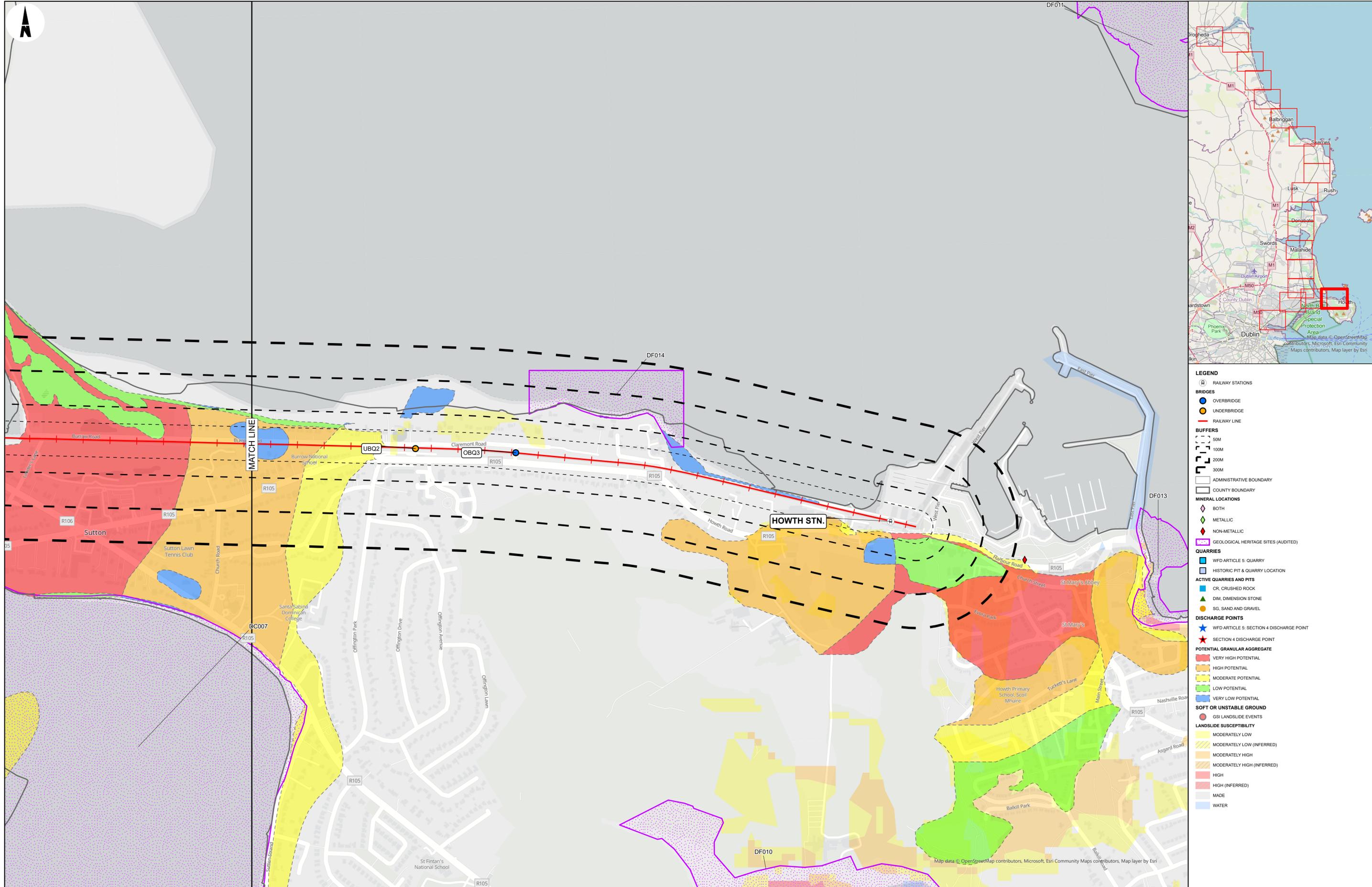
**NTA**  
Udairis Náisiúnta Iomparáil  
National Transport Authority

**Tionscadal Éireann 2040**  
Project Ireland 2040

Client		Engineering Designer		Project Title	
Iarnród Éireann Irish Rail		ARUP		DART+ COASTAL NORTH	
Date	Scale	Drawn	Checked	Approved	
20/09/2021	1:5000 @ A1 1:10000 @ A3	DM	SH	COD	
Project Code	Originator Code	QMS Code			
D+WP56	ARP	279933-00			

Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-ZZ-NL-OR-EV-000316	16 of 19	902	P03

CONSTRAINTS REPORT  
GEOLOGICAL CONSTRAINTS  
OPEN STREET MAP BASEMAP



**LEGEND**

- RAILWAY STATIONS
- BRIDGES
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE
- BUFFERS
  - 50M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY
- COUNTY BOUNDARY
- MINERAL LOCATIONS
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)
- QUARRIES
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS
  - CR. CRUSHED ROCK
  - DIM. DIMENSION STONE
  - SG. SAND AND GRAVEL
- DISCHARGE POINTS
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Tionscadal Éireann  
Project Ireland  
2040

Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client: **Irish Rail**

Engineering Designer: **ARUP**

Date: 20/09/2021 | Scale: 1:5000 @ A1, 1:10000 @ A3

Project Code: D+WP56 | Originator Code: ARP

Drawn: DM | Checked: SH | Approved: COD

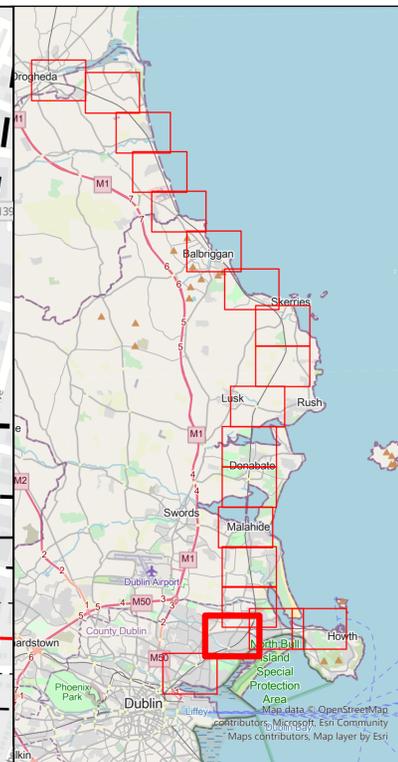
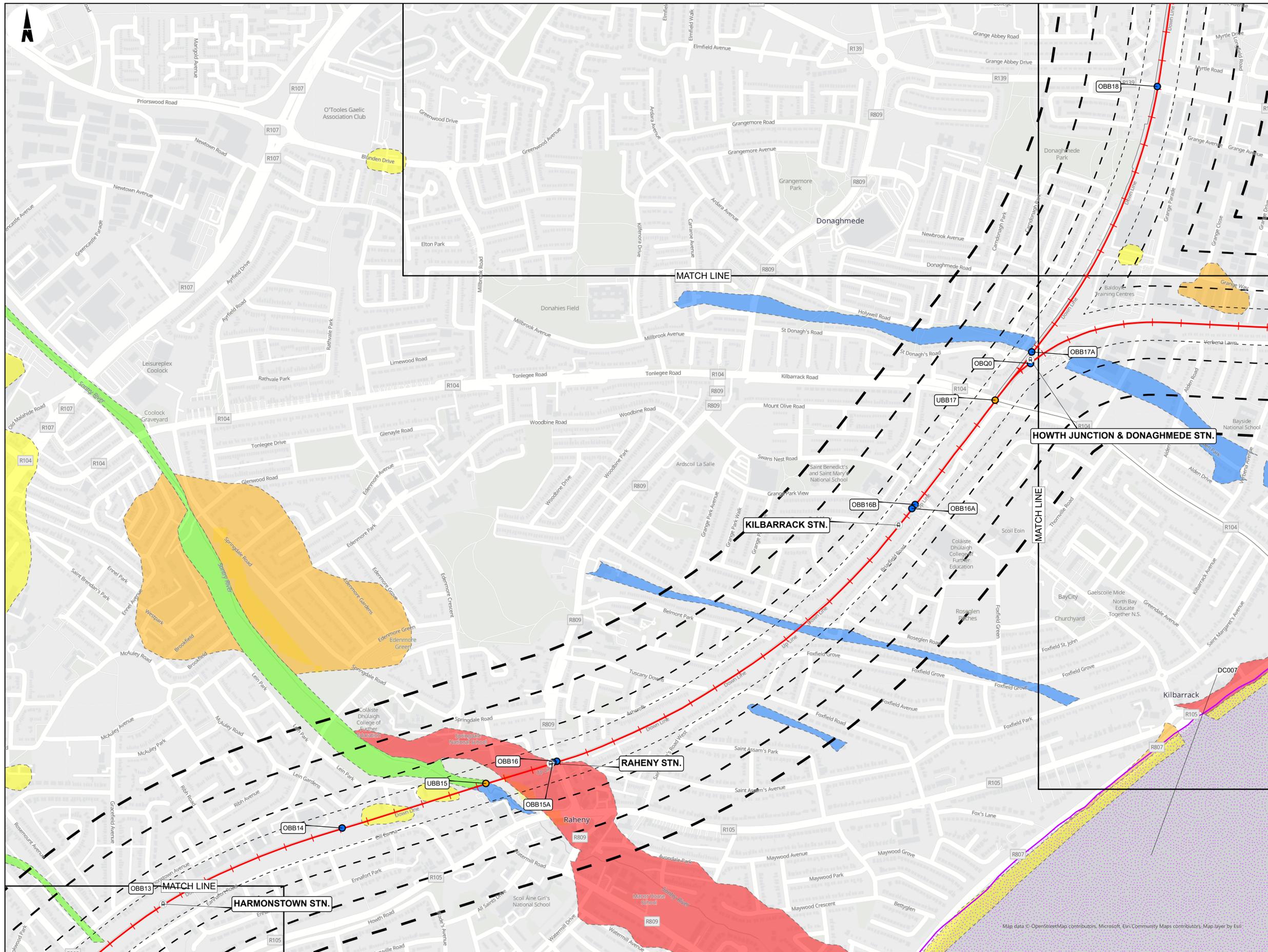
QMS Code: 279933-00

Project Title: **DART+ COASTAL NORTH**

Drawing Title: **CONSTRAINTS REPORT  
GEOLOGICAL CONSTRAINTS  
OPEN STREET MAP BASEMAP**

Drawing File Name: D+WP56-ARP-ZZ-NL-OR-EV-000317

Sheet Number: 17 of 19 | Status: 902 | Rev: P03



**LEGEND**

- RAILWAY STATIONS**
  - RAILWAY STATION
- BRIDGES**
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE**
- BUFFERS**
  - 50M
  - 100M
  - 200M
  - 300M
- ADMINISTRATIVE BOUNDARY**
- COUNTY BOUNDARY**
- MINERAL LOCATIONS**
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)**
- QUARRIES**
  - WFD ARTICLE 5: QUARRY
  - HISTORIC PIT & QUARRY LOCATION
- ACTIVE QUARRIES AND PITS**
  - CR. CRUSHED ROCK
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- DISCHARGE POINTS**
  - WFD ARTICLE 5: SECTION 4 DISCHARGE POINT
  - SECTION 4 DISCHARGE POINT
- POTENTIAL GRANULAR AGGREGATE**
  - VERY HIGH POTENTIAL
  - HIGH POTENTIAL
  - MODERATE POTENTIAL
  - LOW POTENTIAL
  - VERY LOW POTENTIAL
- SOFT OR UNSTABLE GROUND**
  - GSI LANDSLIDE EVENTS
- LANDSLIDE SUSCEPTIBILITY**
  - MODERATELY LOW
  - MODERATELY LOW (INFERRED)
  - MODERATELY HIGH
  - MODERATELY HIGH (INFERRED)
  - HIGH
  - HIGH (INFERRED)
  - MADE
  - WATER

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Rev	Date	Dn	Ch'd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

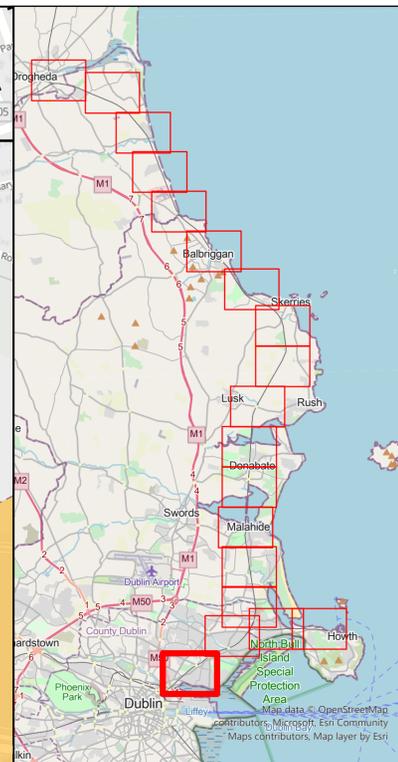
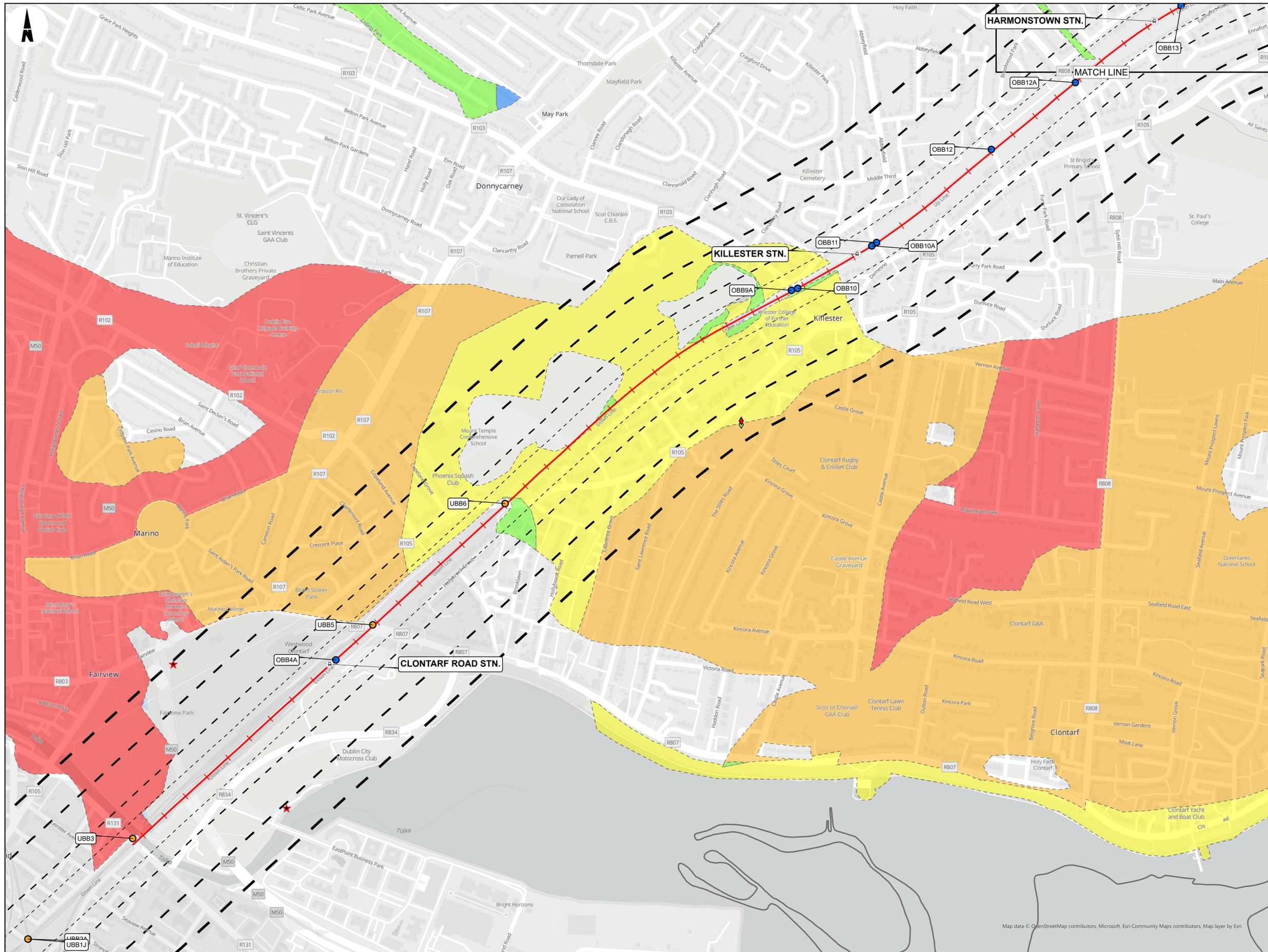
**DART+ Coastal North**

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

Client		Engineering Designer		Project Title	
Iarnród Éireann Irish Rail		ARUP		DART+ COASTAL NORTH	
Date	20/09/2021	Scale	1:5000 @ A1 1:10000 @ A3	Drawn	DM
Project Code	D-WP56	Originator Code	ARP	Checked	SH
				Approved	COD

Drawing File Name	D-WP56-ARP-ZZ-NL-OR-EV-000318	Sheet Number	18 of 19	Status	902	Rev	P03
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CONRAINTS REPORT  
GEOLOGICAL CONSTRAINTS  
OPEN STREET MAP BASEMAP



**LEGEND**

- RAILWAY STATIONS**
  - RAILWAY STATION
- BRIDGES**
  - OVERBRIDGE
  - UNDERBRIDGE
- RAILWAY LINE**
  - RAILWAY LINE
- BUFFERS**
  - 50M
  - 100M
  - 200M
  - 300M
- BOUNDARIES**
  - ADMINISTRATIVE BOUNDARY
  - COUNTY BOUNDARY
- MINERAL LOCATIONS**
  - BOTH
  - METALLIC
  - NON-METALLIC
- GEOLOGICAL HERITAGE SITES (AUDITED)**
- QUARRIES**
  - WFD ARTICLE 5: QUARRY
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  - VERY HIGH POTENTIAL
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Rev	Date	Dn	Chkd	App'd	Description
P01	30/09/2021	DM	SH	COD	
P02	11/10/2021	DM	SH	COD	
P03	10/12/2021	DM	SH	COD	

Client	Engineering Designer	Project Title
		DART+ COASTAL NORTH

Date	Scale	Drawn	Checked	Approved
20/09/2021	1:5000 @ A1 1:10000 @ A3	DM	SH	COD

Project Code	Originator Code	OMS Code	Drawing File Name	Sheet Number	Status	Rev
D+WP56	ARP	279933-00	D+WP56-ARP-ZZ-NL-OR-EV-000319	19 of 19	902	P03