

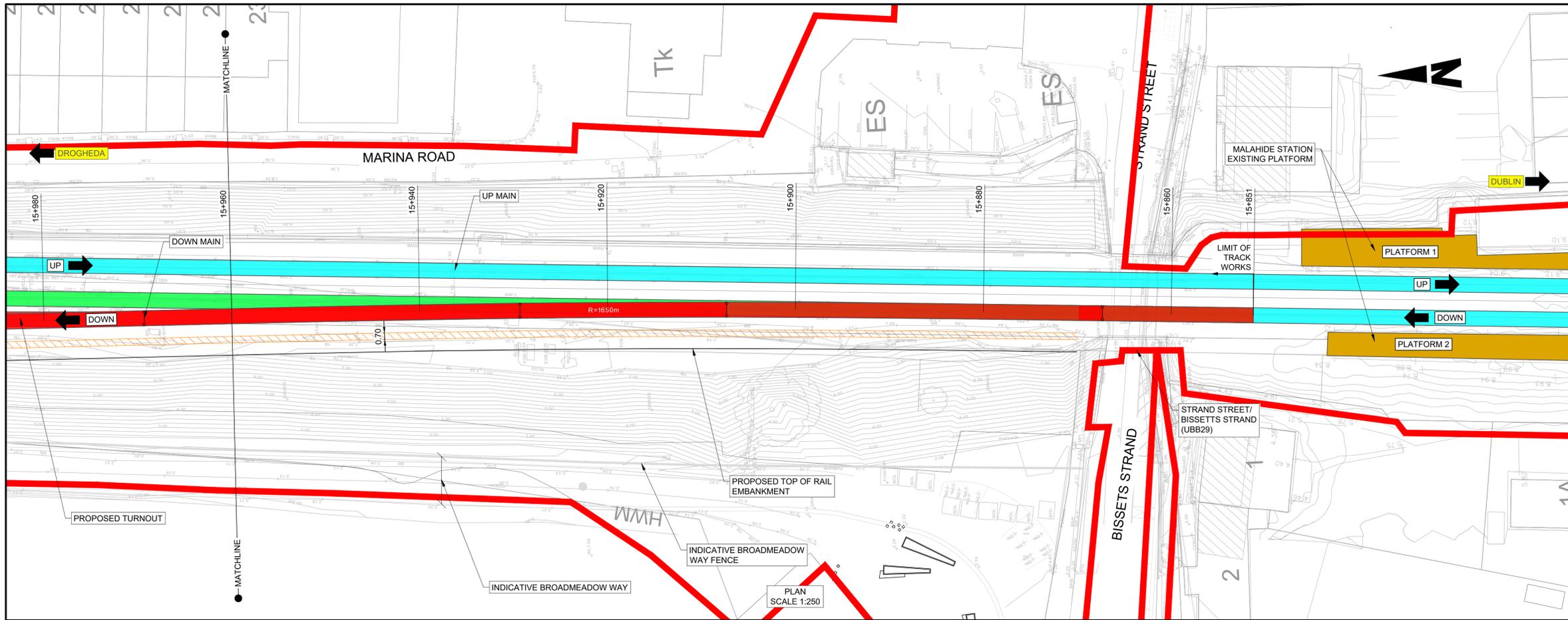
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## **SPECIFIC LOCATIONS**

**04 Malahide**

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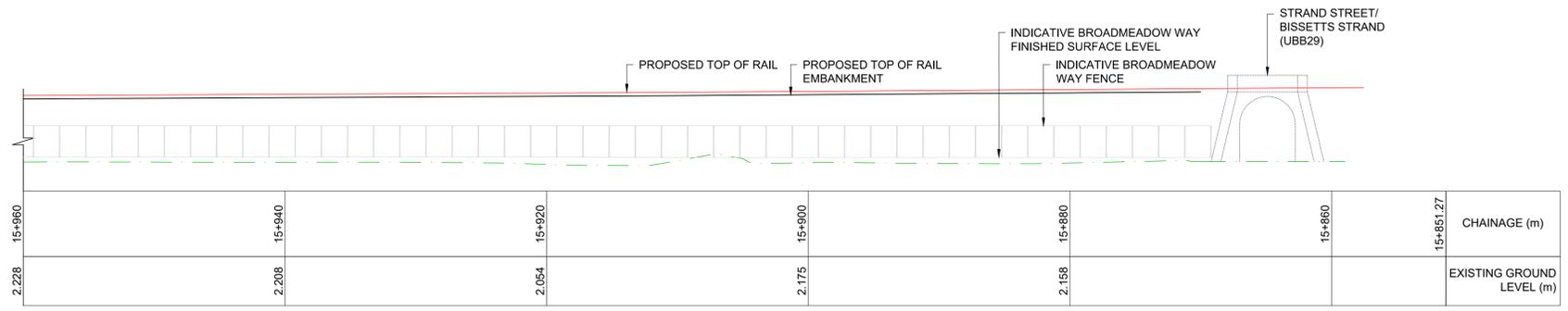




- NOTES:**
- CHAINAGES, LEVELS AND COORDINATES ARE SHOWN IN METERS. ALL OTHER DIMENSIONS ARE SHOWN IN MILLIMETERS, UNLESS OTHERWISE STATED. ALL CLEARANCE AND SIX-FOOT INTERVALS ARE QUOTED TO RUNNING EDGES (RE)
  - TRACK GAUGE TO BE NOMINAL 1602MM FOR PLAIN LINE AND 1600MM FOR P&C
  - ALL P&C SHALL BE VERTICAL RAIL. ALL P&C GEOMETRIES SHALL BE IN ACCORDANCE WITH IE MANUFACTURERS' DRAWINGS AND CCE-TMS-300 TRACK CONSTRUCTION REQUIREMENTS AND TOLERANCES
  - RADII QUOTED ARE FROM TRACK CENTRELINE, UNLESS OTHERWISE STATED MODULAR COMPLIANT LAYOUTS THROUGHOUT
  - PROPOSED AND EXISTING OVERHEAD LINE EQUIPMENT (OHE) IS NOT SHOWN IN PLAN OR PROFILE. REFER TO BOOK 3 LINEAR WORKS PLANS FOR OHE SHOWN IN PLAN
  - FOR DETAILS OF LINESIDE CIVIL INFRASTRUCTURE SUCH AS TROUGHING ROUTES SUBSTATIONS AND PROPOSED ELEVATED DRIVER WALKWAY, REFER TO THE BOOK 3 LINEAR WORKS PLANS DO NOT SCALE FROM THIS DRAWING

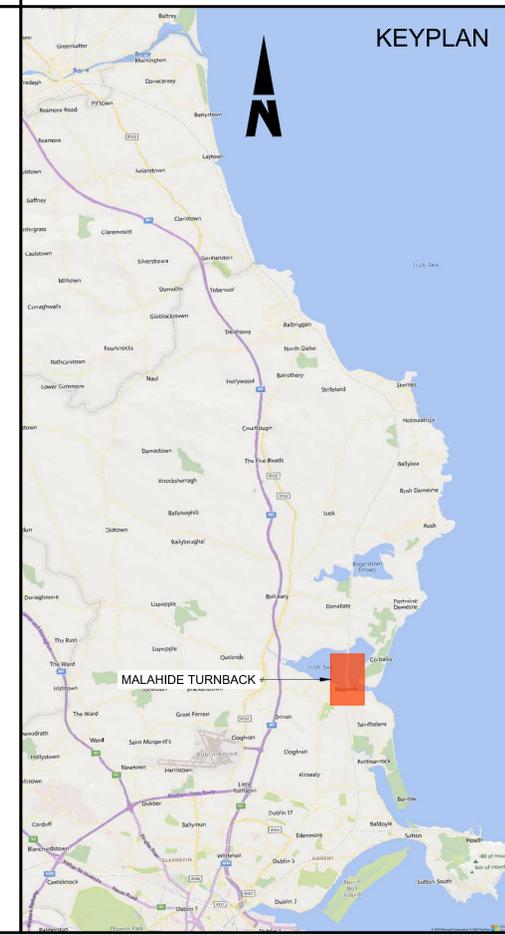
- LEGEND**
- PLAN**
- DEVELOPMENT BOUNDARY
  - RUNNING LINE
  - SIDINGS
  - PROPOSED TRACK WORK
  - TRACK WORK TO BE REMOVED
  - EXISTING STATION PLATFORMS
  - RAISED 1.38m DRIVER WALKWAY
  - CESS WALKWAY
  - INDICATIVE BROADMEADOW WAY
  - PROPOSED EARTHWORKS SLOPE
- LONGITUDINAL PROFILE**
- PROPOSED MAINLINE RAIL
  - EXISTING MAINLINE RAIL
  - EXISTING GROUND (EGL) ALONG PROPOSED WALL FACE
- CROSS SECTION**
- PROPOSED ELEMENTS
  - EXISTING ELEMENTS
  - EXISTING GROUND (EGL)

PLAN SCALE 1:250



CHAINAGE (m)	EXISTING GROUND LEVEL (m)
15+960	2.228
15+940	2.208
15+920	2.054
15+900	2.175
15+880	2.158
15+860	
15+851.27	

ELEVATION SCALE 1:250



KEYPLAN

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Rev	Date	Drn	Chk'd	App'd	Description
P01	31/05/2024	SMW	MT	GS	PLANNING ISSUE

**Client**  
Iarnród Éireann  
Irish Rail

**Engineering Designer**  
ARUP

Date: 31/05/2024  
Scale: 1:250 @ A1, 1:500 @ A3

Project Code: D+WP56  
Originator Code: ARP

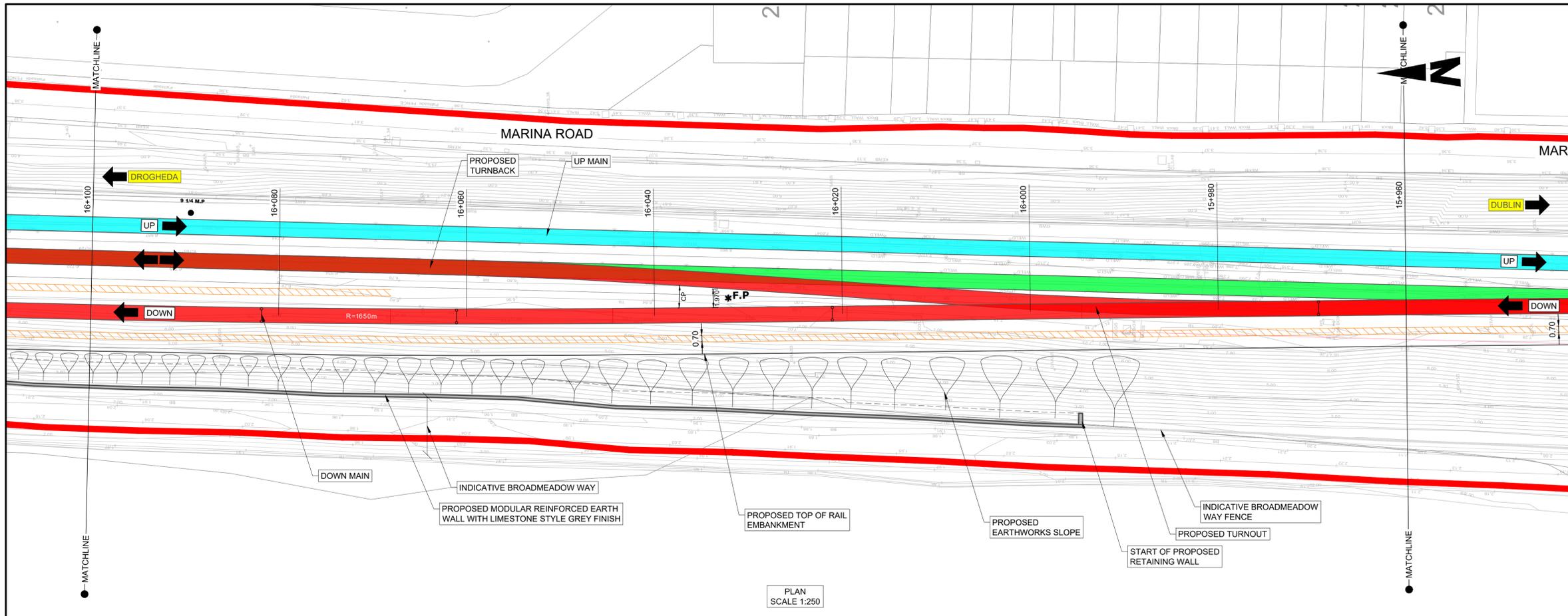
Drawn: SMW  
Checked: SS  
Approved: GS

QMS Code: 280275-00

<b>Project Title</b> DART+ COASTAL NORTH			
<b>Drawing Title</b> MALAHIDE TURNBACK TRACK ALIGNMENT			
<b>Drawing File Name</b> D+WP56-ARP-P4-NL-DR-RO-000400	<b>Sheet Number</b> 01 of 05	<b>Status</b> S3	<b>Rev</b> P01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

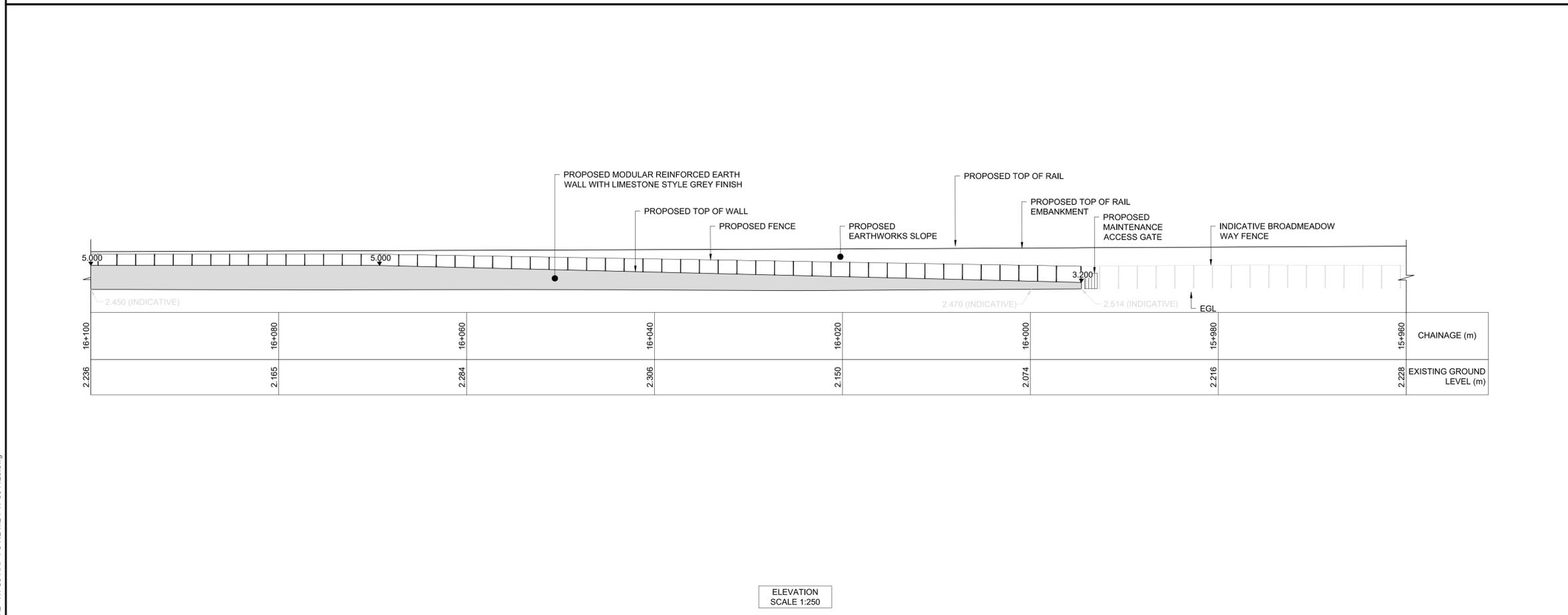
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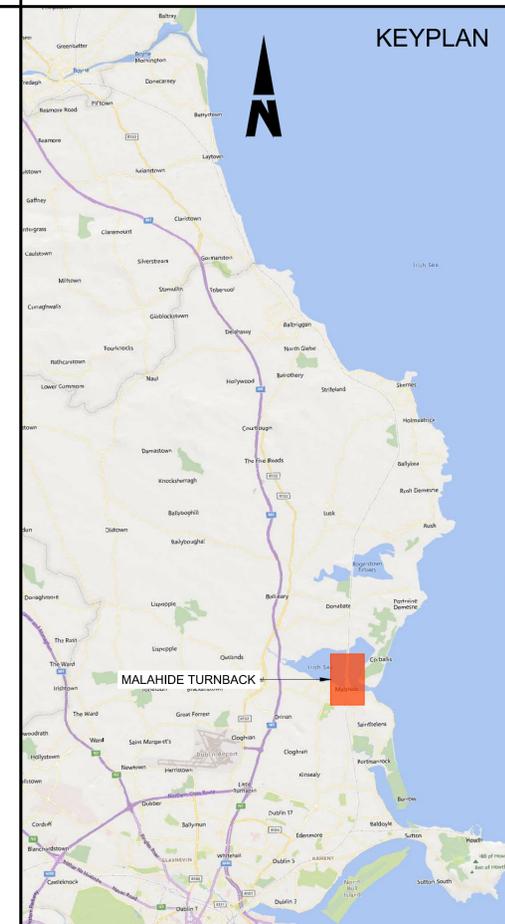
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- LEGEND**
- PLAN**
- DEVELOPMENT BOUNDARY
  - RUNNING LINE
  - SIDINGS
  - PROPOSED TRACK WORK
  - TRACK WORK TO BE REMOVED
  - EXISTING STATION PLATFORMS
  - RAISED 1.38m DRIVER WALKWAY
  - CESS WALKWAY
  - INDICATIVE BROADMEADOW WAY
  - PROPOSED EARTHWORKS SLOPE
- LONGITUDINAL PROFILE**
- PROPOSED MAINLINE RAIL
  - EXISTING MAINLINE RAIL
  - EXISTING GROUND (EGL) ALONG PROPOSED WALL FACE
- CROSS SECTION**
- PROPOSED ELEMENTS
  - EXISTING ELEMENTS
  - EXISTING GROUND (EGL)

PLAN SCALE 1:250



ELEVATION SCALE 1:250



KEYPLAN

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Rev	Date	Drn	Chk'd	App'd	Description
P01	31/05/2024	SMW	MT	GS	PLANNING ISSUE

**Client**

**Engineering Designer**

**ARUP**

Date: 31/05/2024  
Scale: 1:250 @ A1, 1:500 @ A3

Project Code: D+WP56  
Originator Code: ARP

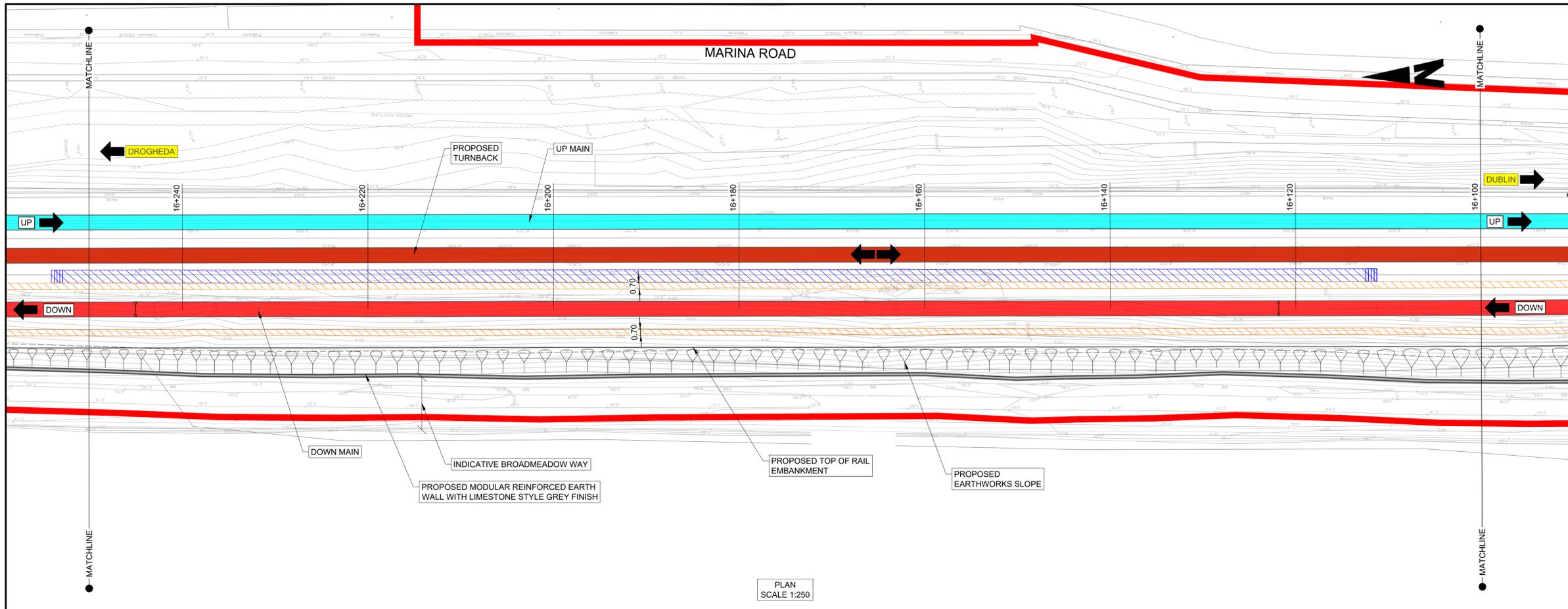
Drawn: SMW  
Checked: SS  
Approved: GS

QMS Code: 280275-00

<b>Project Title</b>			
DART+ COASTAL NORTH			
<b>Drawing Title</b>			
MALAHIDE TURNBACK TRACK ALIGNMENT			
<b>Drawing File Name</b>	<b>Sheet Number</b>	<b>Status</b>	<b>Rev</b>
D+WP56-ARP-P4-NL-DR-RO-000401	02 of 05	S3	P01

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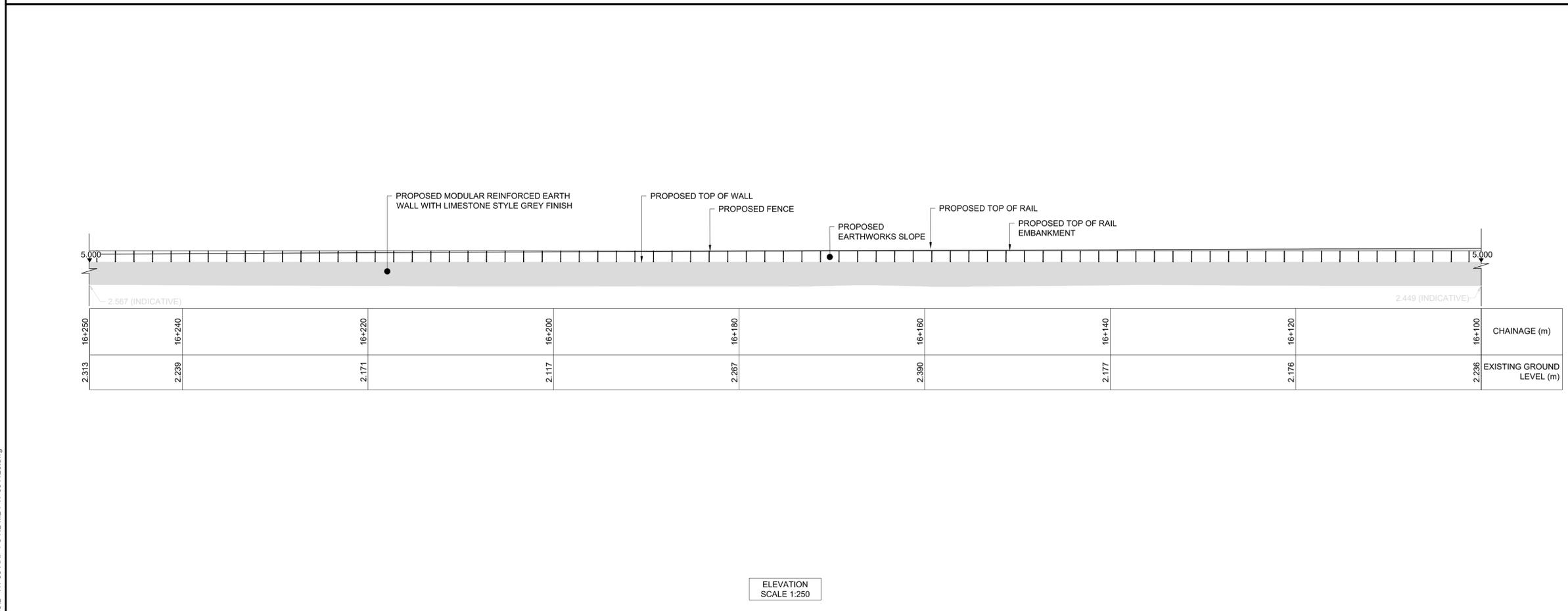
PLAN  
SCALE 1:250

**NOTES:**

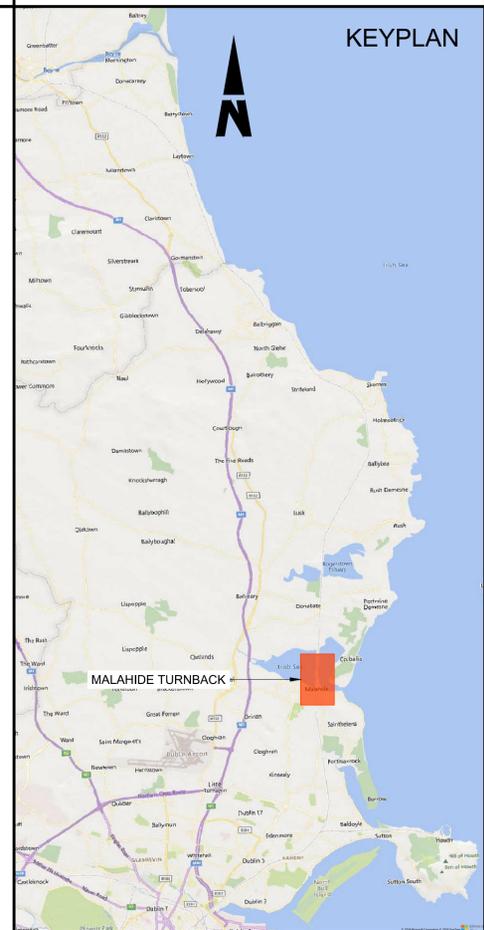
- CHAINAGES, LEVELS AND COORDINATES ARE SHOWN IN METERS. ALL OTHER DIMENSIONS ARE SHOWN IN MILLIMETERS, UNLESS OTHERWISE STATED. ALL CLEARANCE AND SIX-FOOT INTERVALS ARE QUOTED TO RUNNING EDGES (RE)
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**LEGEND**

- PLAN**
- DEVELOPMENT BOUNDARY
  - RUNNING LINE
  - SIDINGS
  - PROPOSED TRACK WORK
  - TRACK WORK TO BE REMOVED
  - EXISTING STATION PLATFORMS
  - RAISED 1.38m DRIVER WALKWAY
  - CESS WALKWAY
  - INDICATIVE BROADMEADOW WAY
  - PROPOSED EARTHWORKS SLOPE
- LONGITUDINAL PROFILE**
- PROPOSED MAINLINE RAIL
  - EXISTING MAINLINE RAIL
  - EXISTING GROUND (EGL) ALONG PROPOSED WALL FACE
- CROSS SECTION**
- PROPOSED ELEMENTS
  - EXISTING ELEMENTS
  - EXISTING GROUND (EGL)



ELEVATION  
SCALE 1:250



KEYPLAN

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Rev	Date	Drn	Chk'd	App'd	Description
P01	31/05/2024	SMW	MT	GS	PLANNING ISSUE

**Client**  
Iarnród Éireann  
Irish Rail

**Engineering Designer**  
ARUP

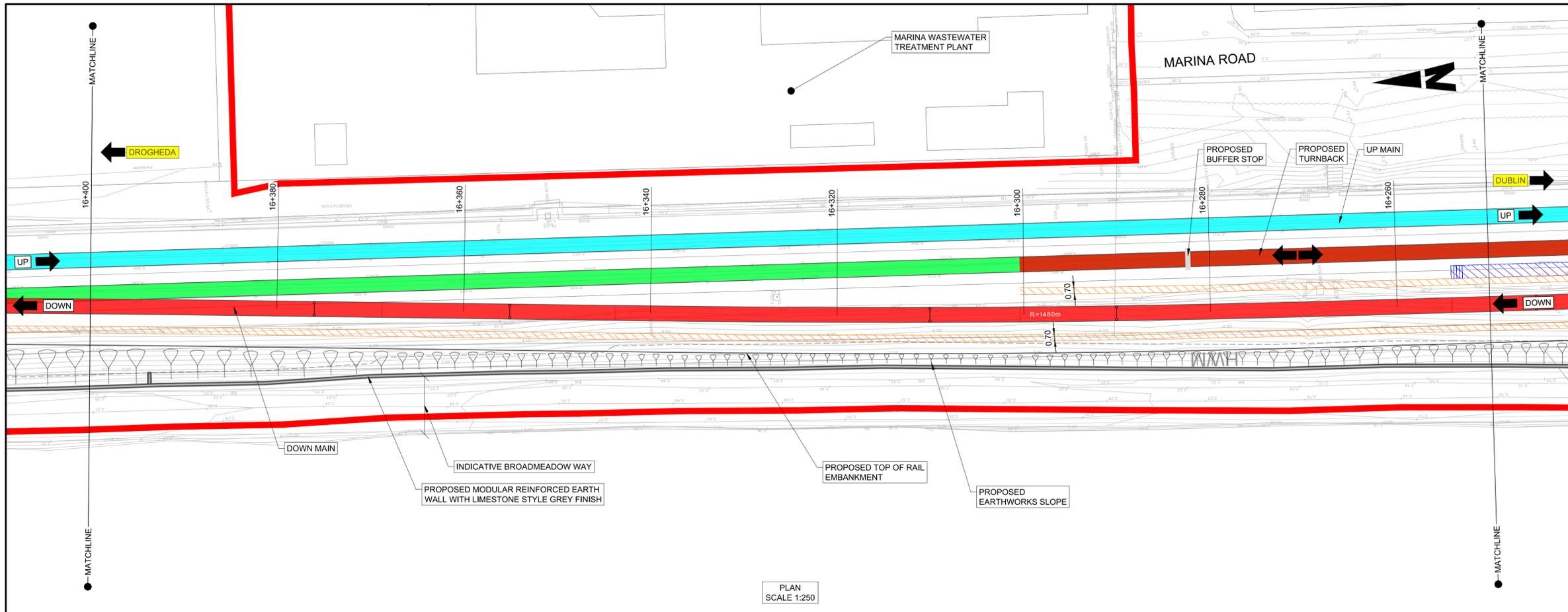
Date: 31/05/2024  
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Project Code: D+WP56  
Originator Code: ARP

Drawn: SMW  
Checked: MT  
Approved: GS

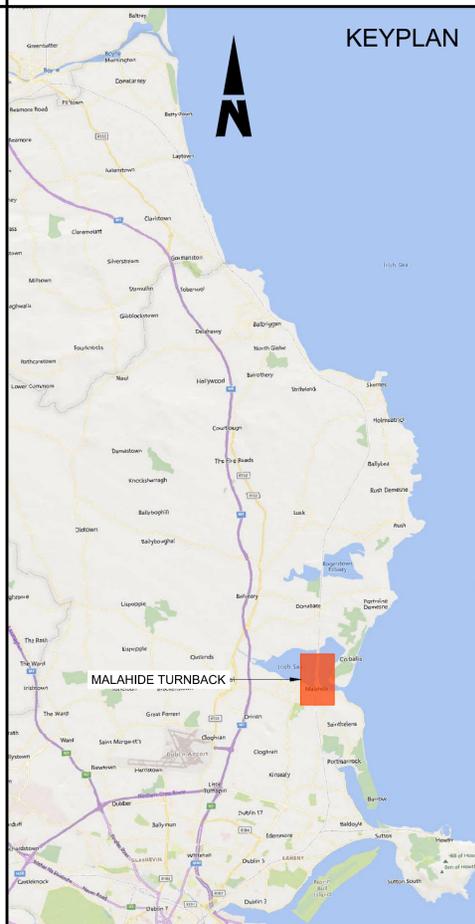
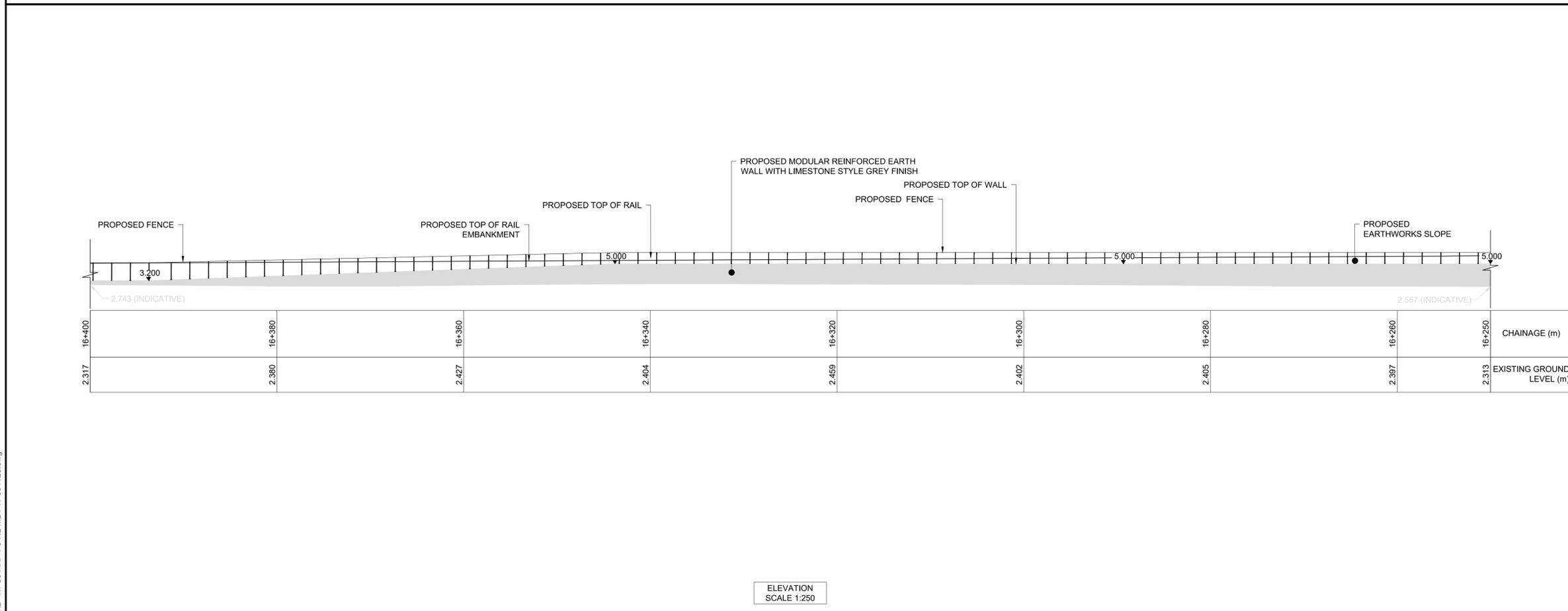
QMS Code: 280275-00

<b>Project Title</b> DART+ COASTAL NORTH			
<b>Drawing Title</b> MALAHIDE TURNBACK TRACK ALIGNMENT			
<b>Drawing File Name</b> D+WP56-ARP-P4-NL-DR-000402	<b>Sheet Number</b> 03 of 05	<b>Status</b> S3	<b>Rev</b> P01



- NOTES:**
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- LEGEND**
- PLAN**
- DEVELOPMENT BOUNDARY
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- LONGITUDINAL PROFILE**
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- CROSS SECTION**
- PROPOSED ELEMENTS
  - EXISTING ELEMENTS
  - EXISTING GROUND (EGL)



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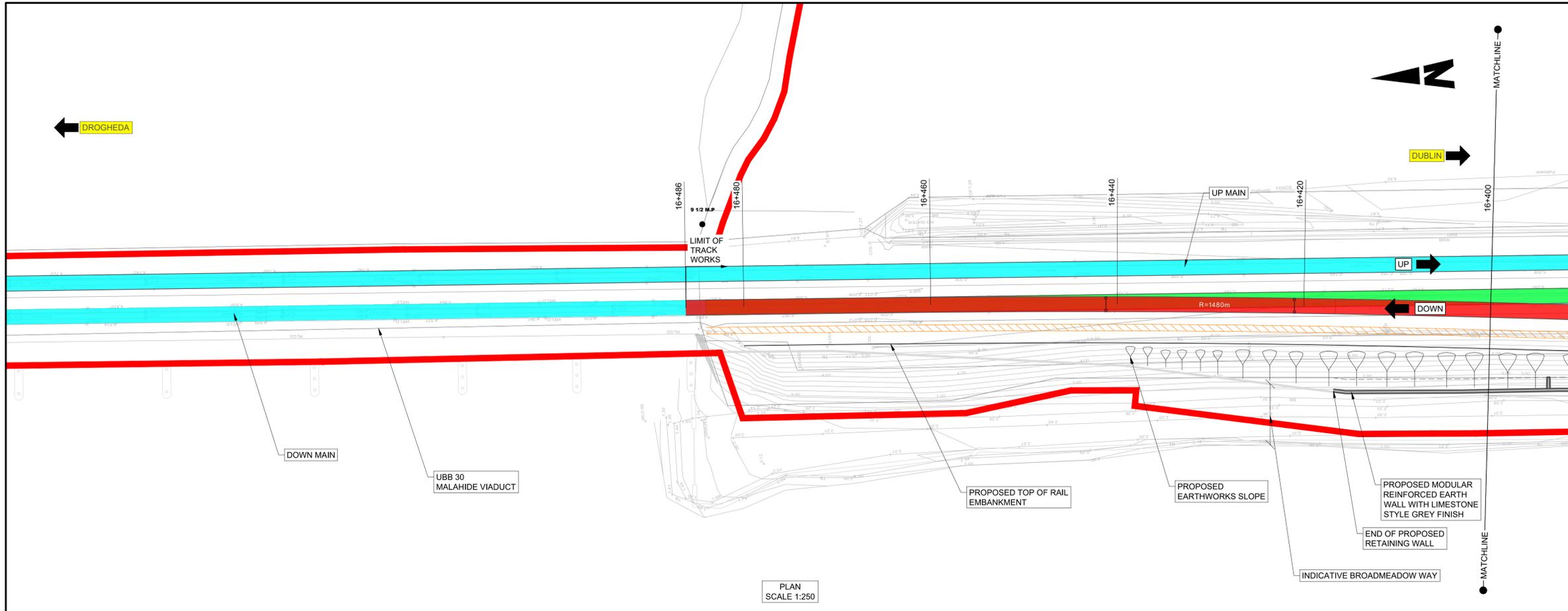
Rev	Date	Drn	Chk'd	App'd	Description
P01	31/05/2024	SMW	MT	GS	PLANNING ISSUE

		<b>Engineering Designer</b> 		
Date	Scale	Drawn	Checked	Approved
31/05/2024	1:250 @ A1 1:500 @ A3	SMW	MT	GS
Project Code	Originator Code	QMS Code		
D+WP56	ARP	280275-00		

<b>Project Title</b> <b>DART+ COASTAL NORTH</b>			
<b>Drawing Title</b> MALAHIDE TURNBACK TRACK ALIGNMENT			
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-P4-NL-DR-RO-000403	04 of 05	S3	P01

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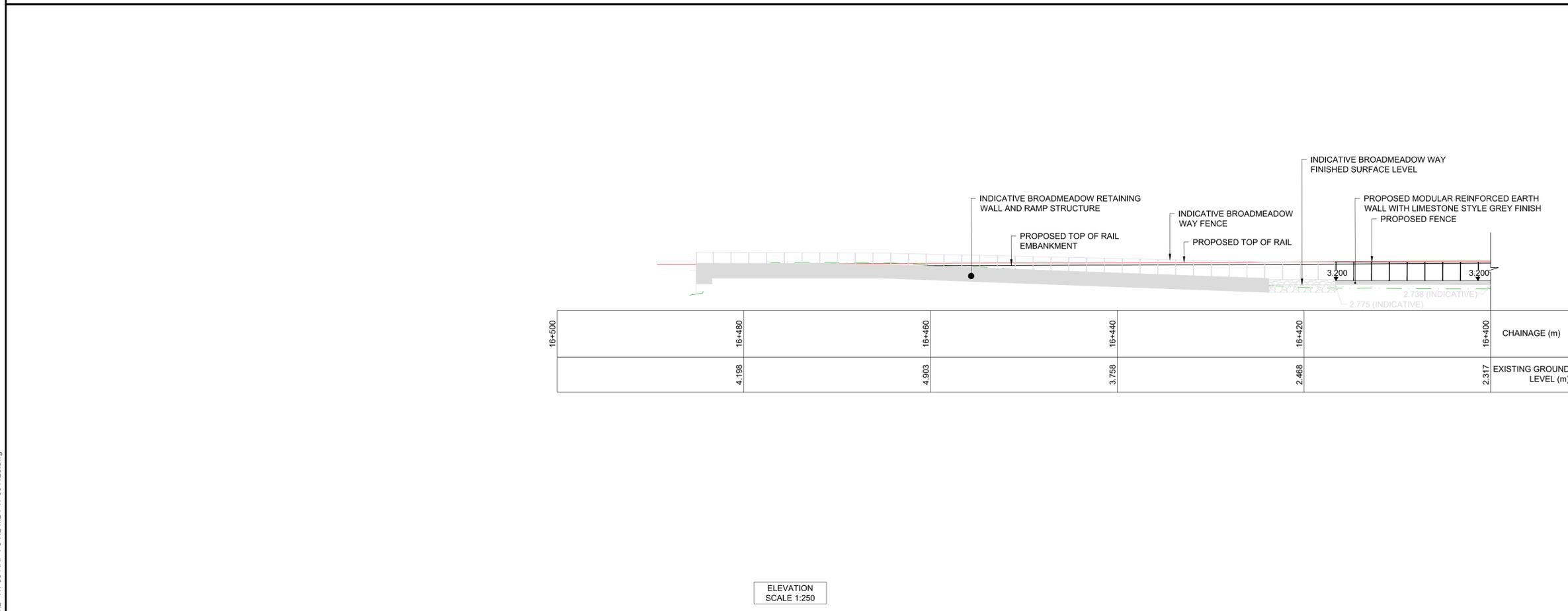
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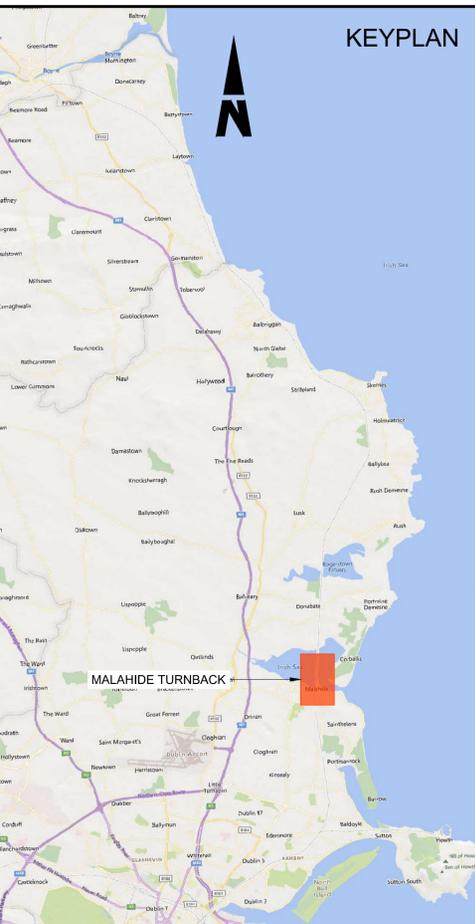
PLAN  
SCALE 1:250

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- LEGEND**
- PLAN**
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- CROSS SECTION**
- PROPOSED ELEMENTS
  - EXISTING ELEMENTS
  - EXISTING GROUND (EGL)



ELEVATION  
SCALE 1:250



KEYPLAN

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Rev	Date	Drn	Chk'd	App'd	Description
P01	31/05/2024	SMW	MT	GS	PLANNING ISSUE

**Client**  
Iarnród Éireann  
Irish Rail

**Engineering Designer**  
ARUP

Date: 31/05/2024  
Scale: 1:250 @ A1, 1:500 @ A3

Project Code: D+WP56  
Originator Code: ARP

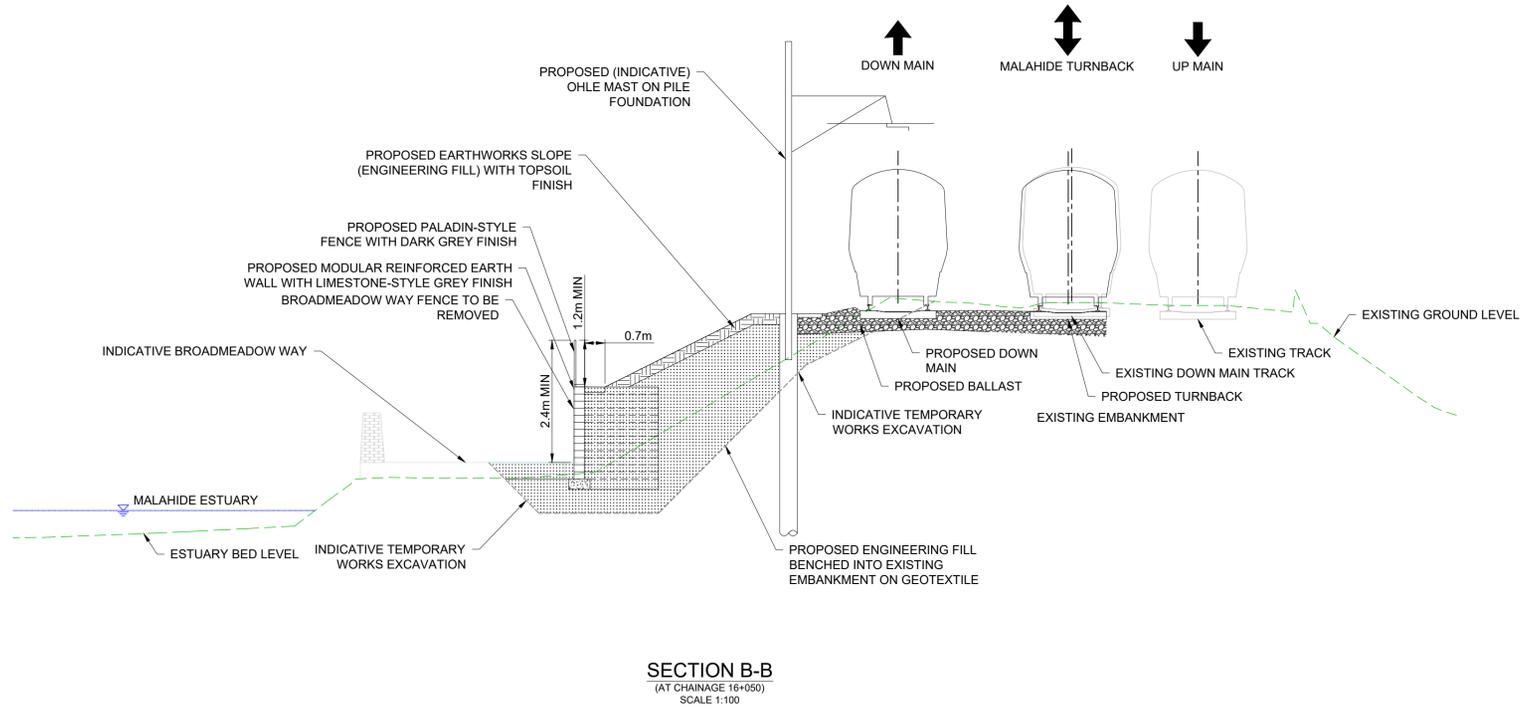
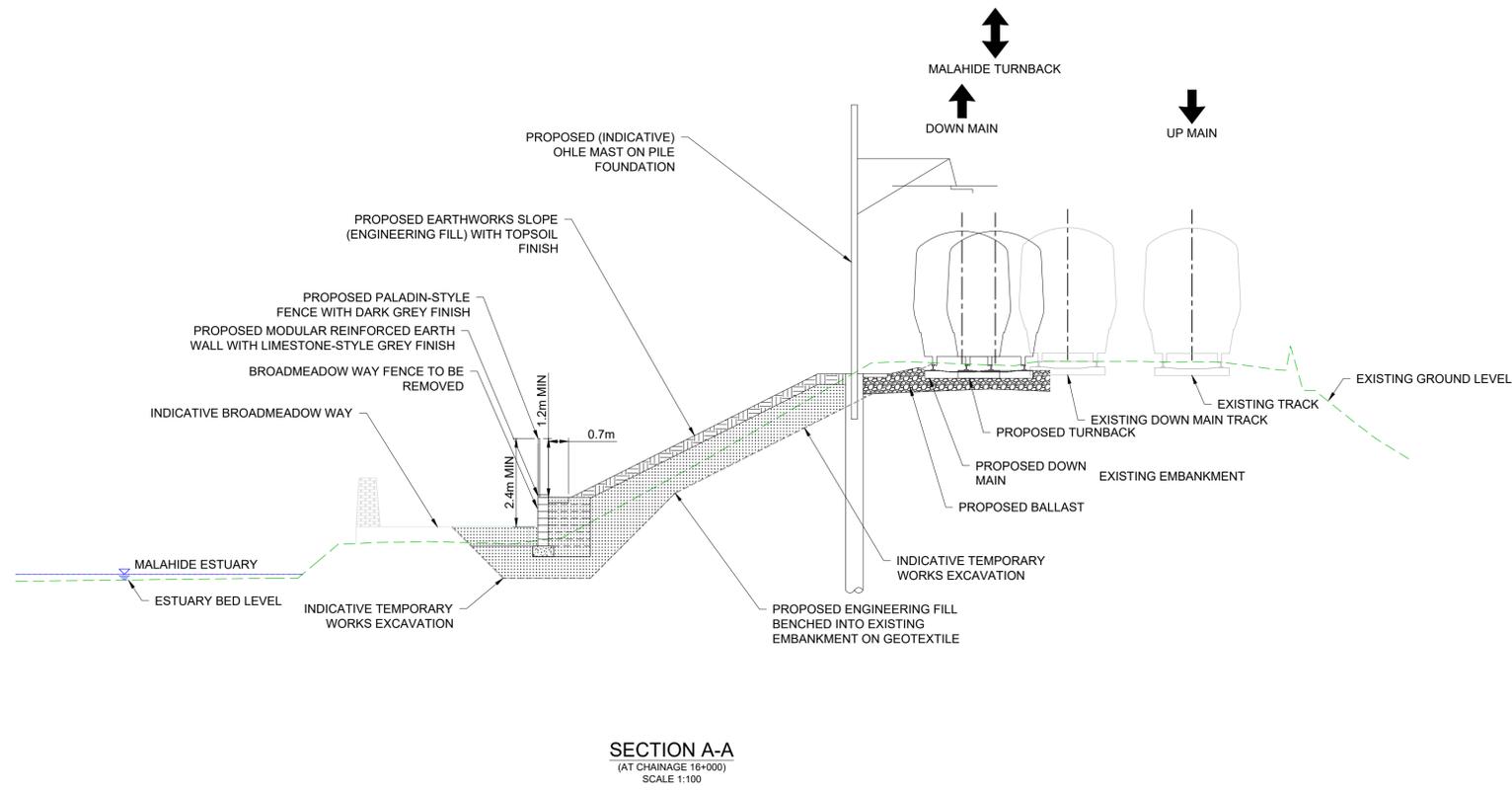
Drawn: SMW  
Checked: MT  
Approved: GS

QMS Code: 280275-00

<b>Project Title</b> DART+ COASTAL NORTH			
<b>Drawing Title</b> MALAHIDE TURNBACK TRACK ALIGNMENT			
<b>Drawing File Name</b> D+WP56-ARP-P4-NL-DR-RO-000404	<b>Sheet Number</b> 05 of 05	<b>Status</b> S3	<b>Rev</b> P01

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Thursday 6 June 2024 09:30:50  
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**LEGEND**

**PLAN**

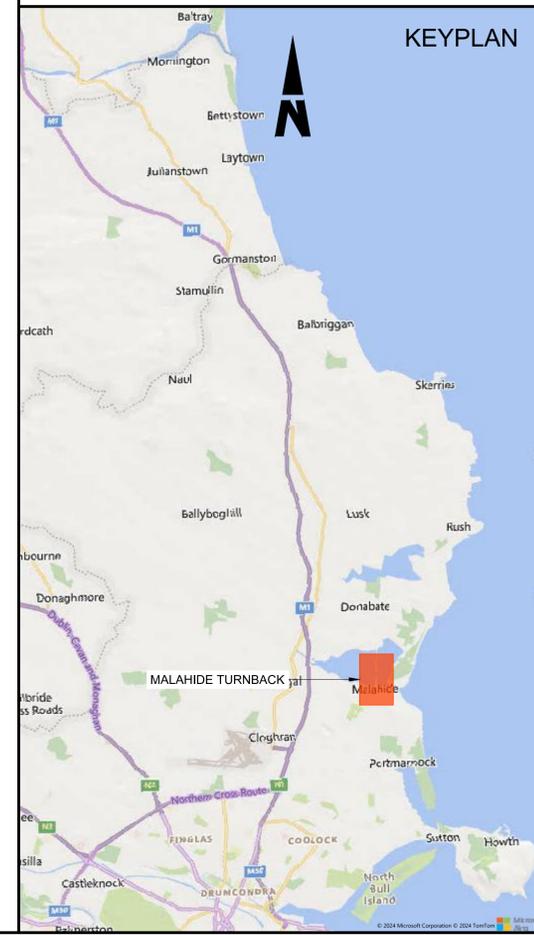
- DEVELOPMENT BOUNDARY
- RUNNING LINE
- SIDINGS
- PROPOSED TRACK WORK
- TRACK WORK TO BE REMOVED
- EXISTING STATION PLATFORMS
- RAISED 1.38m DRIVER WALKWAY
- CESS WALKWAY
- INDICATIVE BROADMEADOW WAY
- PROPOSED EARTHWORKS SLOPE

**LONGITUDINAL PROFILE**

- PROPOSED MAINLINE RAIL
- EXISTING MAINLINE RAIL
- EXISTING GROUND (EGL) ALONG PROPOSED WALL FACE

**CROSS SECTION**

- PROPOSED ELEMENTS
- EXISTING ELEMENTS
- EXISTING GROUND (EGL)



Wednesday 5 June 2024 12:15:57  
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Rev	Date	Drn	Chk'd	App'd	Description
P01	31/05/2024	SMW	MT	GS	PLANNING ISSUE

**Client**  
Iarnród Éireann  
Irish Rail

**Engineering Designer**  
ARUP

Date: 31/05/2024  
Scale: 1:100 @ A1, 1:200 @ A3

Project Code: D+WP56  
Originator Code: ARP

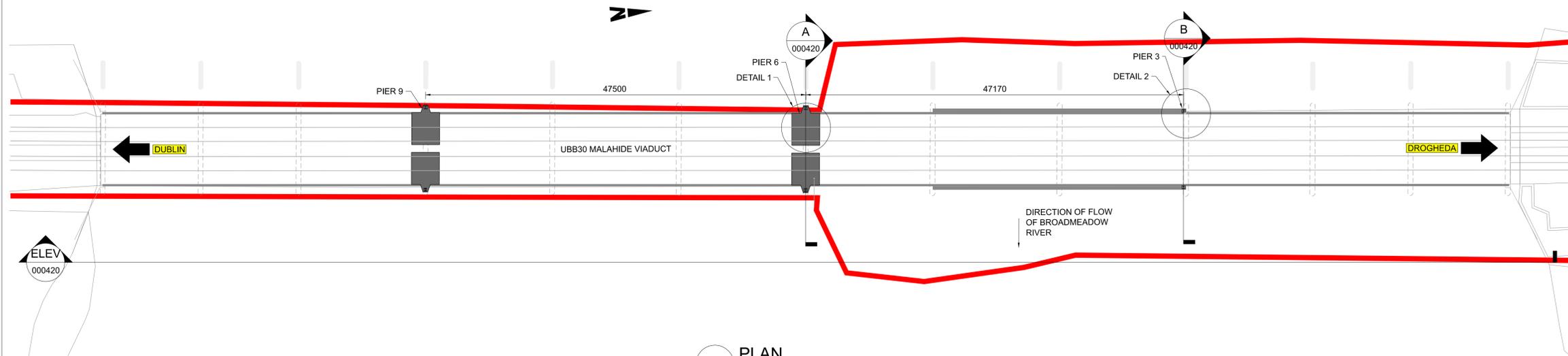
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QMS Code: 280275-00

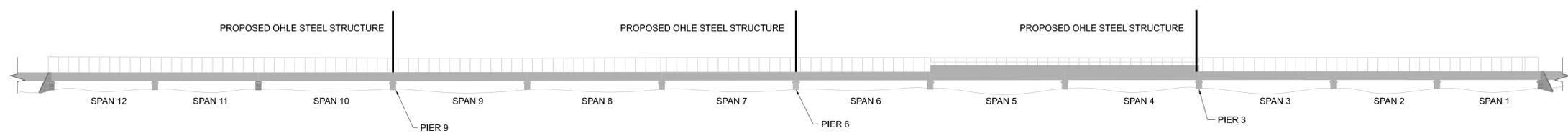
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<b>Drawing Title</b> MALAHIDE TURNBACK TYPICAL CROSS SECTIONS			
<b>Drawing File Name</b> D+WP56-ARP-P4-NL-DR-RO-000408	<b>Sheet Number</b> 1 of 1	<b>Status</b> S03	<b>Rev</b> P01

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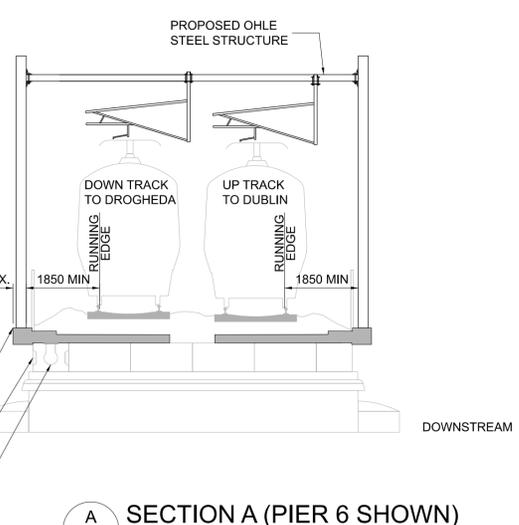




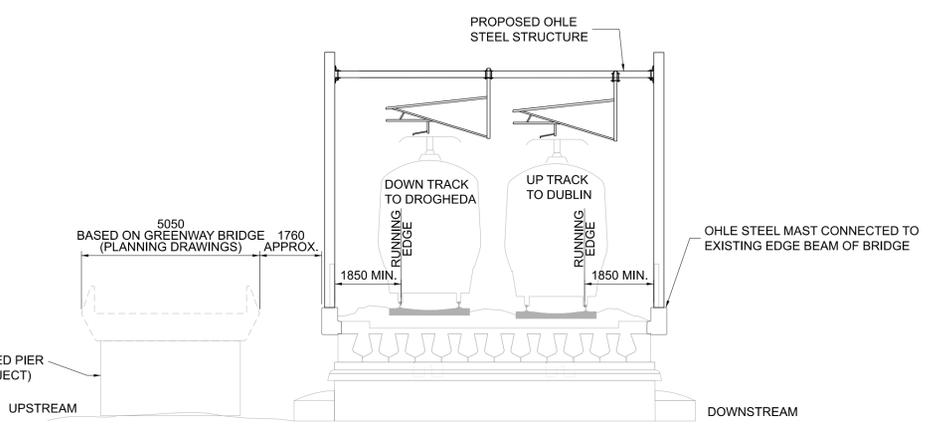
PLAN  
000420 1:300



ELEVATION  
000420 1:300



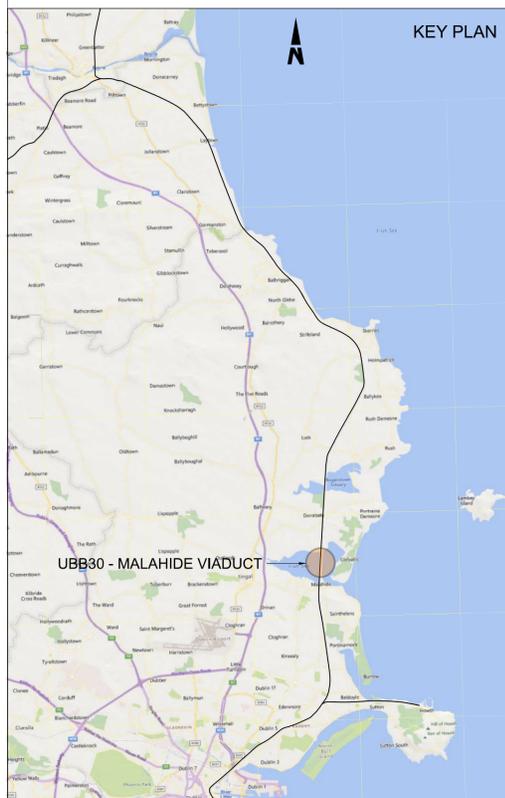
A SECTION A (PIER 6 SHOWN)  
000420 1:100 (PIER 9 SIMILAR)



B SECTION B  
000420 1:100

- NOTES**
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE SHOWN IN METERS ABOVE ORDINANCE DATUM.
  3. DO NOT SCALE FROM THIS DRAWING.
  4. ALL STEELWORK SHALL BE GRADE S355 UNLESS NOTED OTHERWISE. STEELWORK SHALL CONFORM TO THE FOLLOWING STANDARDS:  
UB & UC SECTIONS - BS EN 10025  
PFC & PLATES - BS EN 10025  
RHS, SHS & CHS - BS EN 10210  
EQUAL & UNEQUAL ANGLES - BS EN 10056  
FLAT SQUARE & ROUND BAR - BS EN 10025
  5. OHLE STEEL STRUCTURES SHOWN INDICATIVELY. EXACT MEMBERS TYPES, HEIGHTS AND LENGTHS TO BE DETERMINED AT DETAILED DESIGN.

- LEGEND**
- DEVELOPMENT BOUNDARY
  - PROPOSED ELEMENTS
  - EXISTING ELEMENTS



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Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	AA	CG	DB	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 01/06/2023 Scale: As Shown @ A1 @ A3

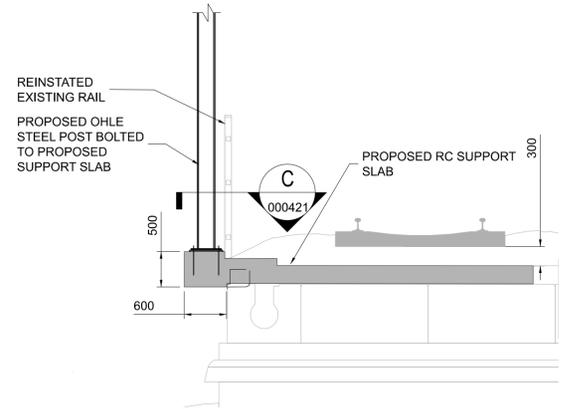
Project Code: D+WP56 Originator Code: ARP

QMS Code: 280275-00

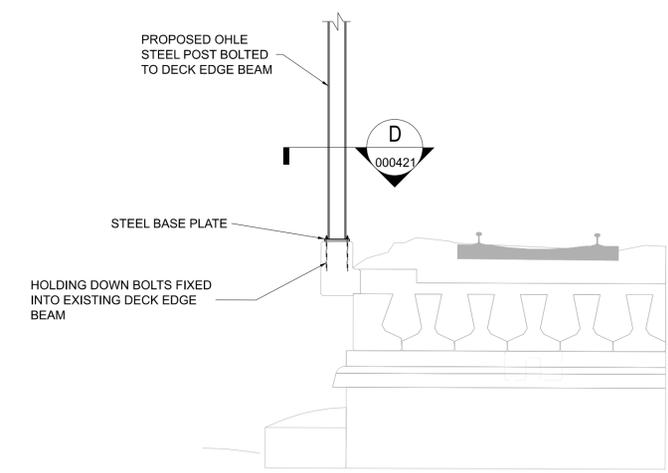
Drawn: AA Checked: CG Approved: DB

Project Title	DART+ COASTAL NORTH		
Drawing Title	UBB30 - MALAHIDE VIADUCT OHLE SUPPORT GENERAL ARRANGEMENT		
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-P4-NL-DR-RO-000420	01 of 02	S3	P01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

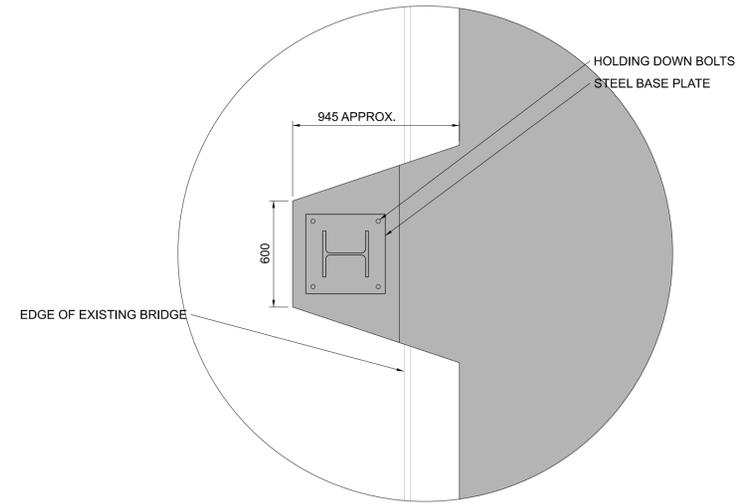


SECTION AT OHLE SUPPORT  
(PIERS 6 & 9)

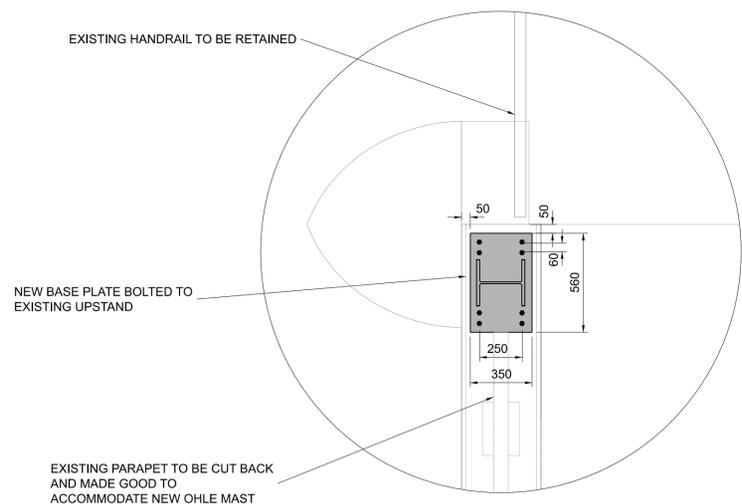


SECTION AT OHLE SUPPORT  
(PIER 3)

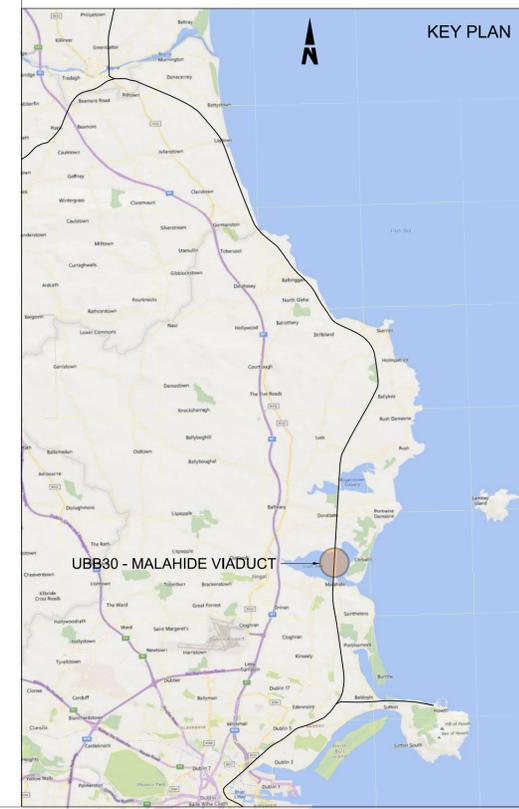
- NOTES**
1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE SHOWN IN METERS ABOVE ORDINANCE DATUM.
  3. DO NOT SCALE FROM THIS DRAWING.
  4. ALL STEELWORK SHALL BE GRADE S355 UNLESS NOTED OTHERWISE. STEELWORK SHALL CONFORM TO THE FOLLOWING STANDARDS:  
 UB & UC SECTIONS - BS EN 10025  
 PFC & PLATES - BS EN 10025  
 RHS, SHS & CHS - BS EN 10210  
 EQUAL & UNEQUAL ANGLES - BS EN 10056  
 FLAT SQUARE & ROUND BAR - BS EN 10025
  5. OHLE STEEL STRUCTURES SHOWN INDICATIVELY. EXACT MEMBERS TYPES, HEIGHTS AND LENGTHS TO BE DETERMINED AT DETAILED DESIGN.



C SECTION C  
000421 1:20



D SECTION D  
000421 1:20



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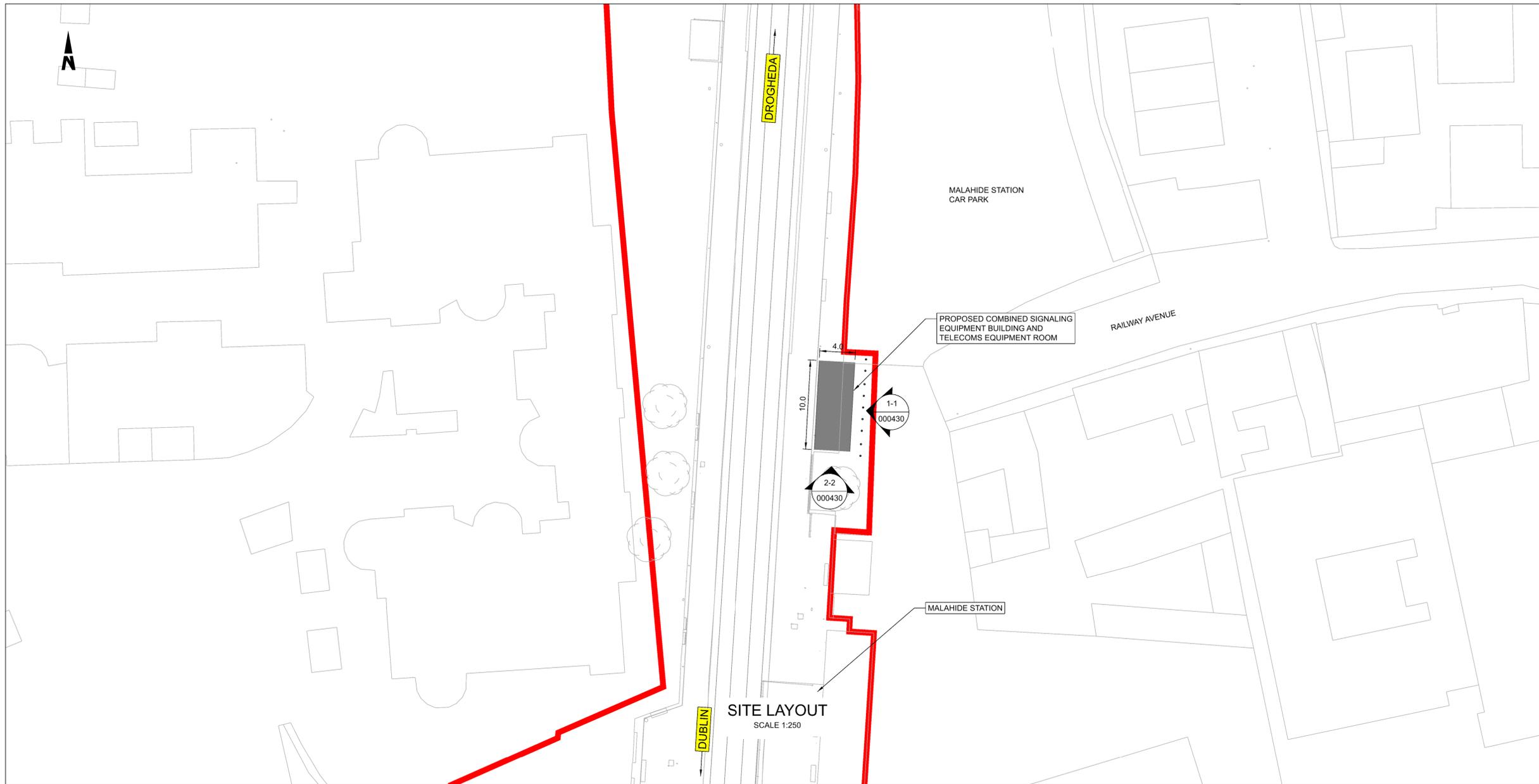
Rev	Date	Drn	Chk'd	App'd	Description
P01	13/10/2023	AA	CG	DB	PLANNING ISSUE

Client <b>Iarnród Éireann Irish Rail</b>		Engineering Designer <b>ARUP</b>		
Date 01/06/2023	Scale As Shown @ A1 @ A3	Drawn AA	Checked CG	Approved DB
Project Code D+WP56	Originator Code ARP	QMS Code 280275-00		

Project Title <b>DART+ COASTAL NORTH</b>			
Drawing Title <b>UBB30 - MALAHIDE VIADUCT OHLE SUPPORT SECTIONS</b>			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-000421	Sheet Number 02 of 02	Status S3	Rev P01

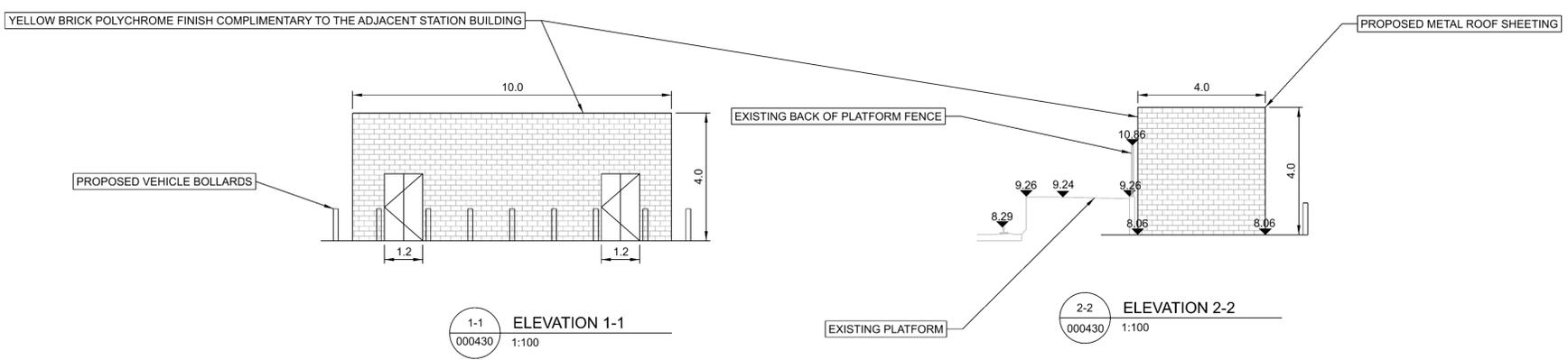
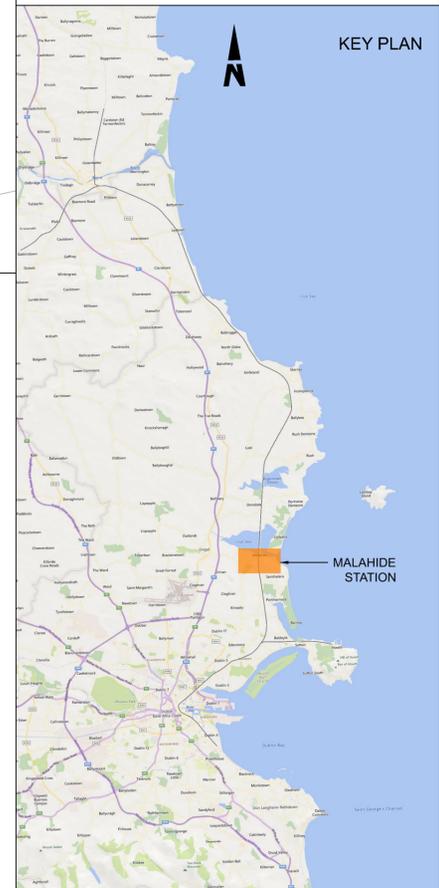
DO NOT SCALE USE FIGURED DIMENSIONS ONLY





- NOTES**
- DO NOT SCALE FROM THIS DRAWING
  - LOCATION OF ALL BURIED SERVICES TO BE CONFIRMED PRIOR TO CONSTRUCTION.
  - ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE STATED.
  - ALL CHAINAGES ARE IN KILOMETERS.
  - DRAWING TO BE PRINTED IN COLOUR.
  - ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM (MOD) UNLESS OTHERWISE STATED.
  - THE DART+ COASTAL NORTH PROJECT IS POSITIONED ACCORDING TO THE IRISH TRANSVERSE MERCATOR (ITM) COORDINATE SYSTEM.
  - REFER TO BOOK 3 LINEAR WORKS PLANS FOR DETAILS OF LINESIDE CIVILS INFRASTRUCTURE SUCH AS TROUGHING AND FENCING.

- LEGEND**
- DEVELOPMENT BOUNDARY
  - EXISTING ELEMENTS
  - █ PROPOSED ELEMENTS



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Rev	Date	Drn	Chk'd	App'd	Description
P01	28/11/2023	SF	EJ	DB	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

Engineering Designer: **ARUP**

Date: 01/06/2023 | Scale: @ A1 AS SHOWN @ A3 | Drawn: SF | Checked: EJ | Approved: DB

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

Project Title: <b>DART+ COASTAL NORTH</b>			
Drawing Title: <b>MALAHIDE STATION PROPOSED COMBINED SIGNALLING EQUIPMENT BUILDING AND TELECOMS EQUIPMENT ROOM</b>			
Drawing File Name: D+WP56-ARP-P4-NL-DR-RO-000430	Sheet Number: 1 of 1	Status: S3	Rev: P01

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