

24210-01-001

ROSSLARE EUROPORT ORE HUB ACCESS ROAD

Road Safety Audit Stage 1

for

Iarnród Eireann

November 2024



7, Ormonde Road
Kilkenny.
R95 N4FE

Tel: 056 7795800
info@roadplan.ie
www.roadplan.ie

DOCUMENT CONTROL SHEET

Project Title	Rosslare Europort ORE Hub
Project No.	24210-01
Client	Iarnród Éireann
Document Title	Road Safety Audit Stage 1
Document No.	24210-01-001

Status	Author(s)	Reviewed By	Approved By	Issue Date
Draft 1	PB / RB	PB / RB	RB	15/11/2024
Final	PB / RB	PB / RB	RB	28/11/2024

TABLE OF CONTENTS

1. INTRODUCTION	4
2. STAGE 1 AUDIT	5
3. AUDIT TEAM STATEMENT	8
4. SAFETY AUDIT FEEDBACK FORM	9
APPENDIX A	10

1. INTRODUCTION

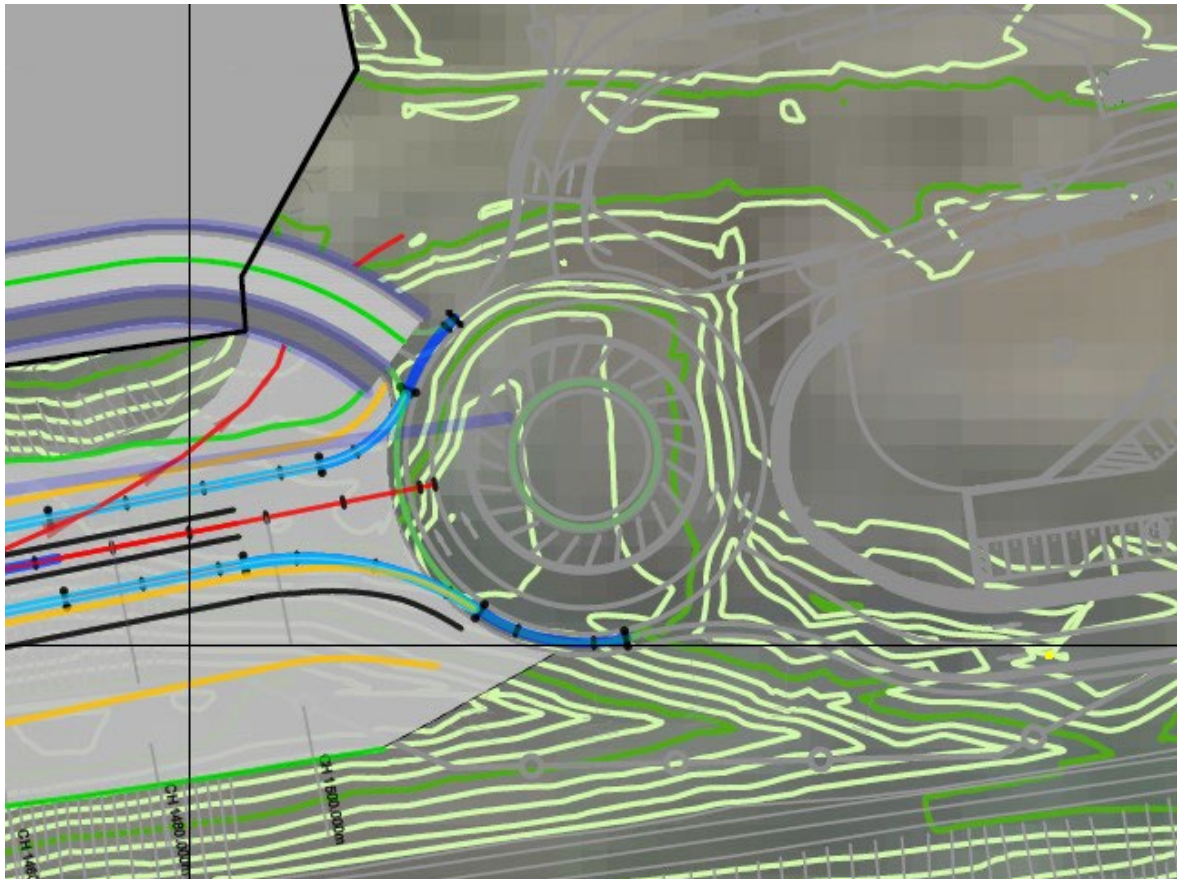
- 1.1 This report describes a Stage 1 Road Safety Audit carried out at the Rosslare Europort ORE Hub. The proposed project is at Rosslare Europort, Rosslare Harbour, County Wexford. The audit was carried out on 13th November 2024 in the offices of Roadplan Consulting, Kilkenny.
- 1.2 The audit team members were as follows:
 - Ray Butler, BE CEng MIEI
Auditor Number RB210538
 - Patrick Brennan, BEng MIEI.
Auditor Number PB1321187
- 1.3 Both audit team members visited the site on the 6th of November 2024. The audit comprised an examination of the drawings relating to the scheme supplied by Nicholas O'Dwyer Ltd, and an examination of the site.
- 1.4 The speed limit at the proposed works location is 20 km/h.
- 1.5 This Stage 1 Audit has been carried out in accordance with the relevant sections of TII GE-STY-01024. The team has examined only those issues within the design relating to the road safety implications of the scheme and has therefore not examined or verified the compliance of the design to any other criteria.
- 1.6 All problems described in this report are considered by the audit team to require action in order to improve the safety of the scheme and minimise accident occurrence.
- 1.7 Appendix A contains copies of the audited drawings.

2. STAGE 1 AUDIT

Location: Roundabout Junction

2.1 **Problem:** Entry/Exit

Drivers of vehicles approaching the roundabout from the Rosslare Europort access road wishing to exit onto the access road to the small craft harbour will be unable to safely negotiate the manoeuvre owing to the proximity of the entry to the exit. This may lead to sudden braking leading to rear end collisions.



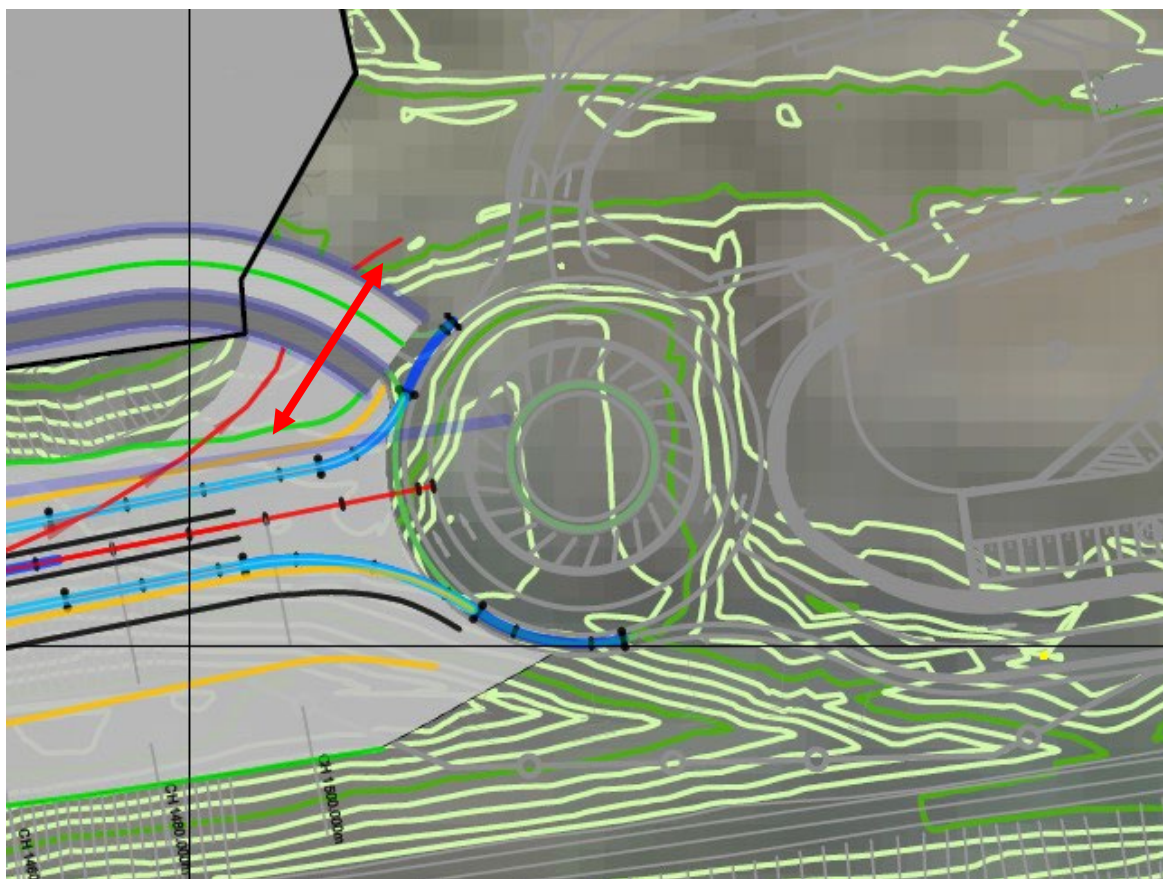
Recommendation:

Erect signs on the Rosslare Europort access road approach to inform drivers, especially those in large vehicles, who wish to access the small craft harbour to travel around the roundabout circulatory carriageway.

Location: Roundabout Junction

2.2 **Problem:** Intervisibility

Drivers of vehicles exiting from the small craft harbour road may not be aware of vehicles, likely to be HGV/Freight traffic, heading towards the port, entering onto the circulatory carriageway from the adjacent Rosslare Europort access road. This may lead to side impact collisions if they enter into the path of approaching vehicles on the circulatory carriageway.

**Recommendation:**

Ensure that drivers on the small craft harbour road have clear visibility to vehicles entering from the Rosslare Europort access road.

2.3 Observation: HGV Access

The proposed layout shows parking for HGVs at the O&M. A swept path analysis should be carried out to ensure that the access road and carpark accesses can safely accommodate HGV manoeuvres.

2.4 Observation: Existing Roundabout Access

The existing small craft access road connection to the roundabout appears to have a narrower cross section than the proposed road. A consistent cross-section should be provided.

**2.5 Observation: Parking**

Bicycle parking is not provided in the carparks. Adequate parking should be provided for bicycles.

3. AUDIT TEAM STATEMENT

- 3.1 We certify that we have examined the drawings listed in Appendix A and have inspected the site. This examination has been carried out with the sole purpose of identifying any features of the scheme that could be removed or modified to improve the safety of the scheme.

Signed.......... Ray Butler

Date13th November 2024.....

Signed.......... Patrick Brennan

Date13th November 2024.....

APPENDIX A

List of Drawings Examined

The following drawings have been provided electronically in PDF format by Nicholas O'Dwyer Ltd. and are appended.

Project Title	Rev	Drawing title
Rosslare Europort ORE Hub	-	Rosslare Ore Hub G.A. - Plan
Rosslare Europort ORE Hub	S2 P04	General Arrangement Plan - Option 2 (Sbh)
Rosslare Europort ORE Hub	S2 P02	Embankment Typical Section
Rosslare Europort ORE Hub	S2 P01	Ro-Ro Quay Typical Section
Rosslare Europort ORE Hub	S2 P01	Ro-Ro Platform Comby Wall Typical Section
Rosslare Europort ORE Hub	S2 P02	Ore Hub Layout
Rosslare Europort ORE Hub	S2 P02	Ro-Ro Berth Layout
Rosslare Europort ORE Hub	S2 P01	Ro-Ro Berthing Substructures Layout
Rosslare Europort ORE Hub	S2 P01	Heavy Lift Quay Wall And Ro-Ro Berthing Plan

4. SAFETY AUDIT FEEDBACK FORM

Scheme: Rosslare Europort ORE Hub

Document Number: 24210-01-RP-001

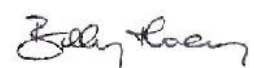
Audit Stage: Stage 1 RSA

Date Audit Completed: 13th November 2024

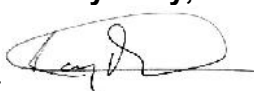
Paragraph No. in Safety Audit Report	To Be Completed By Designer			To Be Completed by Audit Team Leader
	Problem accepted (yes/no)	Recommended measure Accepted (yes/no)	Describe alternative measure(s). Give reasons for not accepting recommended measure. Only complete if recommended measure is not accepted.	Alternative measures or reasons accepted by auditors (yes/no)
2.1	Yes	Yes. Signage will be erected on the REAR approach to the roundabout to direct long vehicles to travel 360° around the roundabout. In addition, a right turning lane will be provided on the road to the Small Boat Harbour to minimise queuing on that limb.	-----	-----
2.2	Yes	Yes. Intervisibility will be provided by maintaining the verge heights at kerb level in the limb between the REAR road and the Small Boat Harbour entrance.	-----	-----

Safety Audit Signed off  Design Team Leader

Print Name ...**Diarmuid O'Loan (Tech. Director, GDG)**..... Date ...25/11/24...

Safety Audit Signed off  Employer

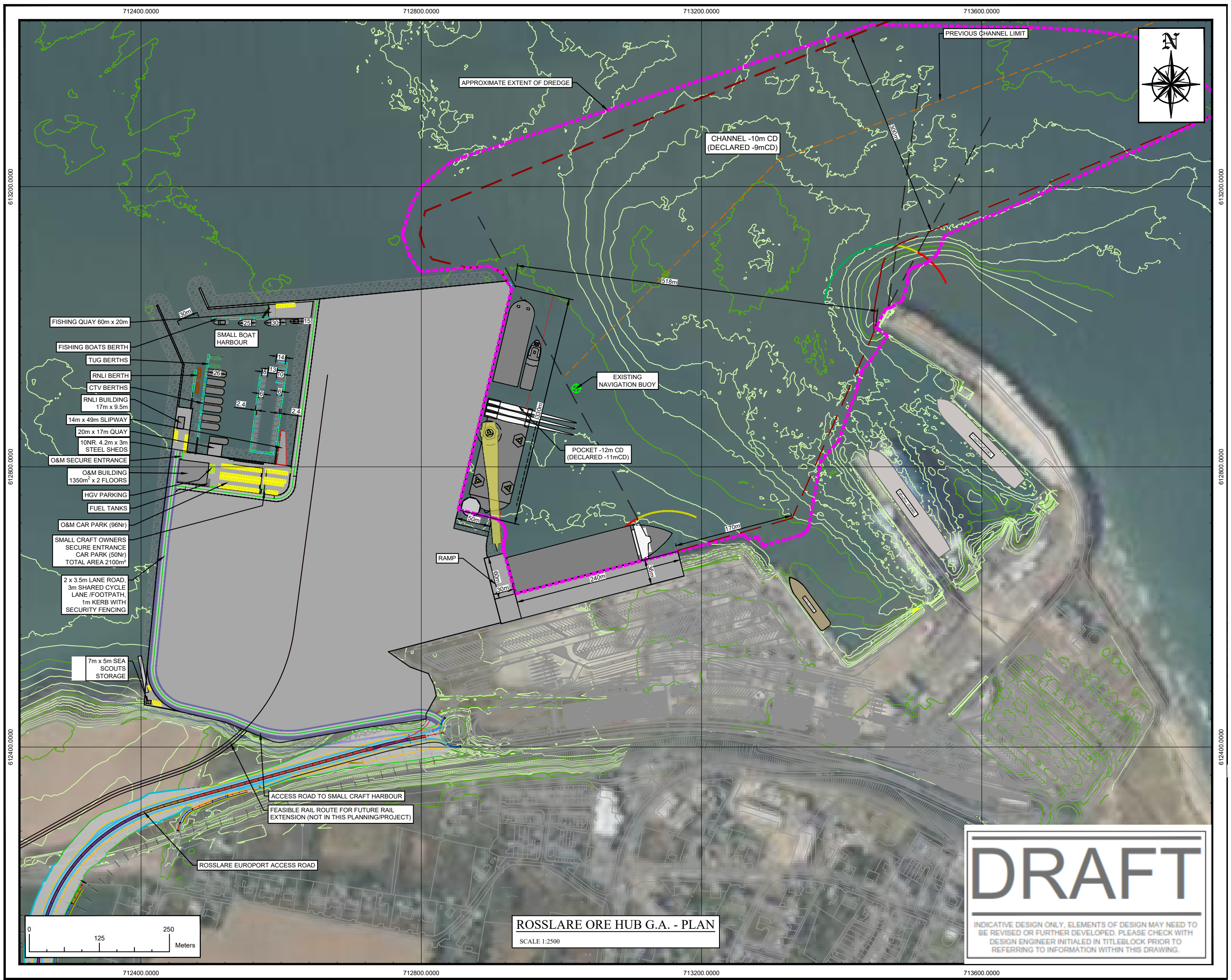
Print Name ...**Billy Hoey, Irish Rail**..... Date ...25/11/24...

Safety Audit Signed off  Audit Team Leader

Print Name ...**Ray Butler**. Date ...28/11/24...

Please complete and return to:

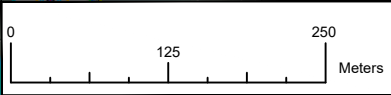
Roadplan Consulting,
7, Ormonde Road
Kilkenny
E-mail: info@roadplan.ie

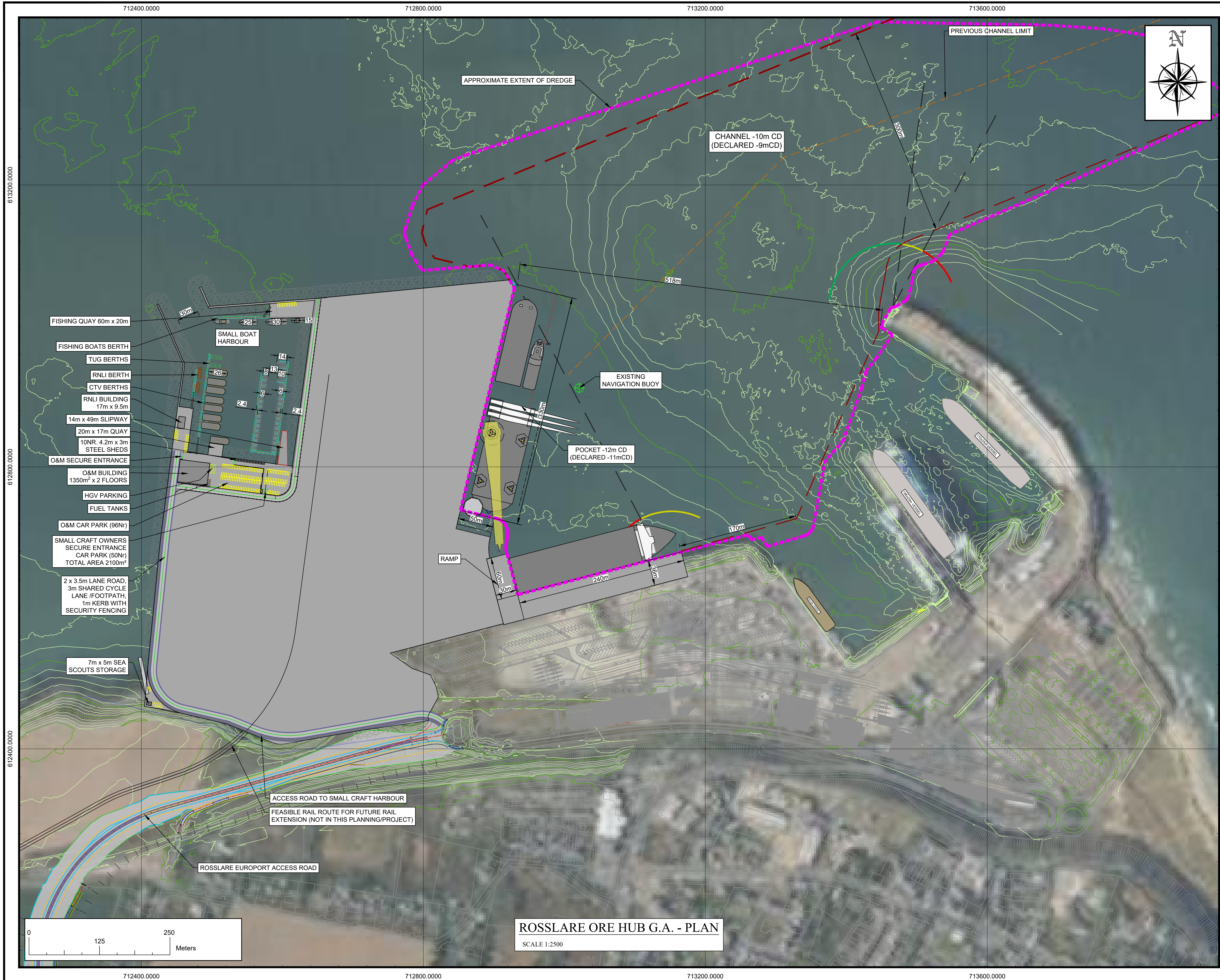


ROSSLARE ORE HUB G.A. - PLAN
SCALE 1:2500

DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.





NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED
2. USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS)
3. COORDINATES ON ITM
4. RAIL DESIGN SHOWN INDICATIVELY.
5. VESSEL ARRANGEMENTS ARE INDICATIVE.
6. FUTURE ROAD INFRASTRUCTURES PROVIDED BY OTHERS.

DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

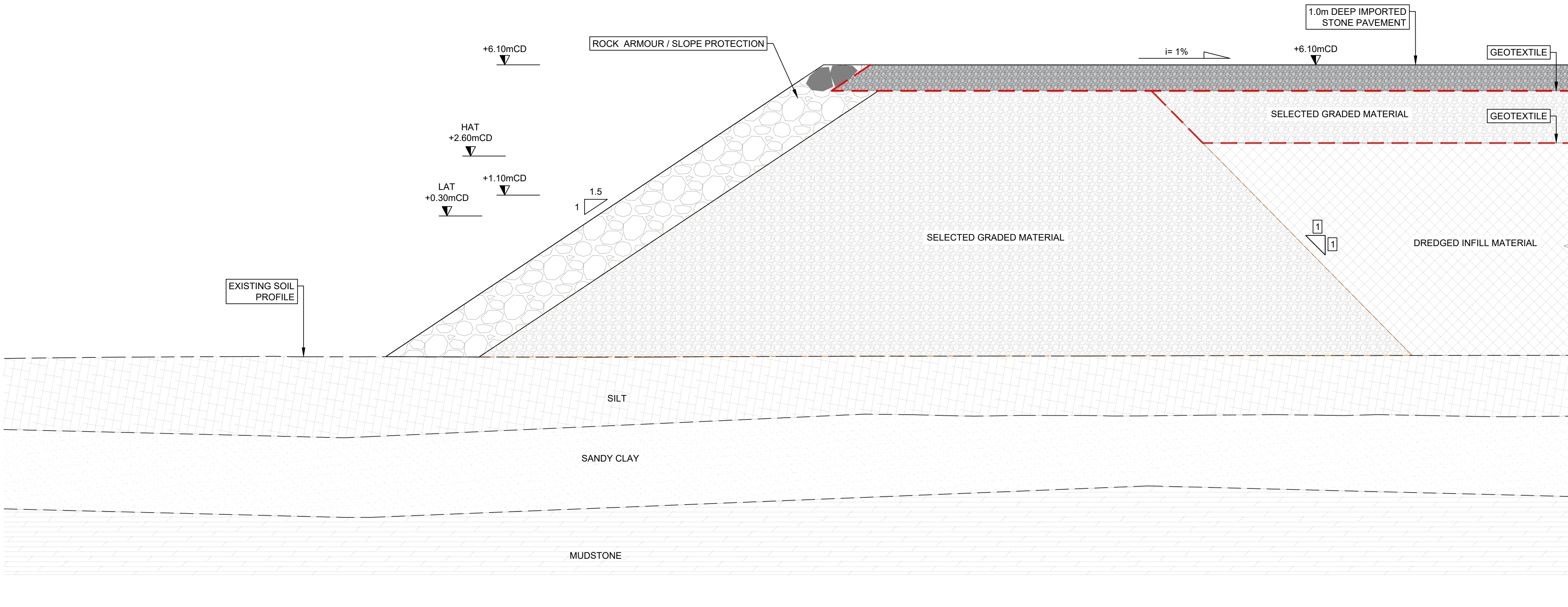
REV:	S2-P04	DATE:	23/07/24	DRAWN BY:	EFC	CHECKED BY:	D.O'L
DESCRIPTION:	MINOR AMENDMENTS						
REV:	S2-P03	DATE:	19/07/24	DRAWN BY:	EFC	CHECKED BY:	W.B.
DESCRIPTION:	SMALL BOATS HARBOUR ENTRANCE UPDATED						
REV:	S2-P02	DATE:	14/05/24	DRAWN BY:	EFC	CHECKED BY:	D.O'L
DESCRIPTION:	SMALL BOATS PONTOONS LAYOUT UPDATED						
REV:	S2-P01	DATE:	16/04/24	DRAWN BY:	CJM	CHECKED BY:	D.O'L
DESCRIPTION:	ISSUED FOR INFORMATION						

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nutgrove Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

FOR INFORMATION

CLIENT:			
PARTNER:	NICHOLAS O'DWYER LTD.		
PROJECT TITLE:	ROSSLARE EUROPORT ORE HUB		
DRAWING No:	23170-GDG-ZZ-XX-DR-C-1007	Revision:	-S2-P04
DRAWING TITLE:	ROSSLARE ORE HUB GENERAL ARRANGEMENT PLAN - OPTION 2 (SBH)		
SCALE:	1:2500	SHEET SIZE:	A1
DRAWN BY:	EFC	CHECKED BY:	W.B.
DATE:	16/04/2024	APPROVED BY:	D.O'L



EMBANKMENT - TYPICAL SECTION
SCALE 1:100

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
2. USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS).
3. ALL LEVELS IN METERS TO CD.
4. COORDINATES ON ITM

DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

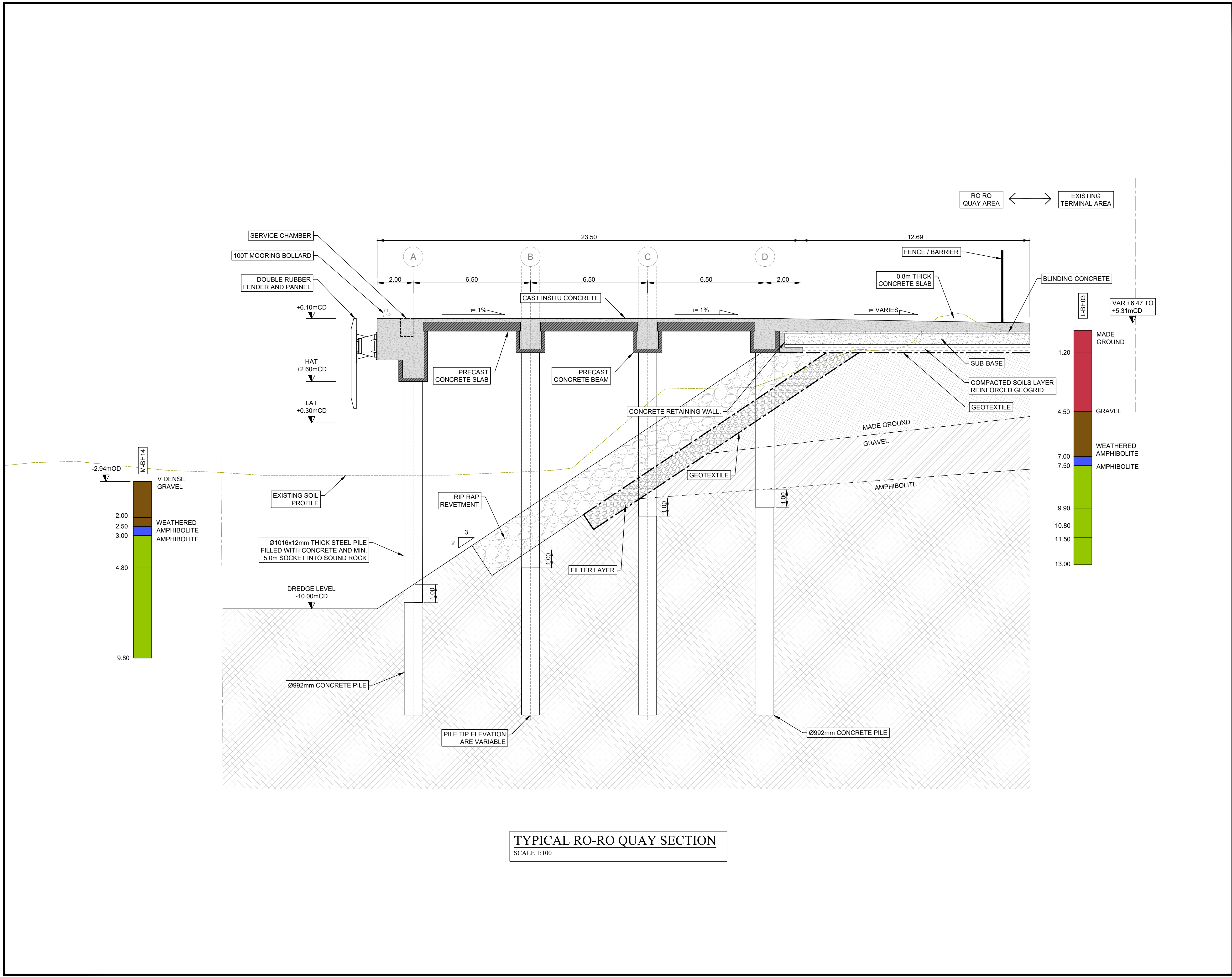
REV: S2-P02	DATE: 12/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: GEOTEXTILE ADDED			
REV: S2-P01	DATE: 10/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: ISSUED FOR INFORMATION			

GDG

GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nutgrove Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: FOR INFORMATION			
CLIENT: 			
PARTNER: NICHOLAS O'DWYER LTD.			
PROJECT TITLE: ROSSLARE EUROPORT ORE HUB			
DRAWING No: 23170-GDG-ZZ-XX-DR-C-2001			
			Revision: -S2 - P02
DRAWING TITLE: EMBANKMENT TYPICAL SECTION			
SCALE: 1:100	SHEET SIZE: A1	DATE: 07/06/2024	
DRAWN BY: EFC	CHECKED BY: CM	APPROVED BY: D'OL	



- NOTES:
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 2. USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS).
 3. ALL LEVELS IN METERS TO CD.
 4. COORDINATES ON ITM.
 5. TUBULAR PILES BE GRADE 355 MPa.
 6. CONCRETE STRENGTH CLASS C40/50.
 7. STEEL PILES TO PENETRATE MINIMUM 1.0m IN WEATHERED ROCK.

- LEGEND:
- MADE GROUND
 - V DENSE GRAVEL
 - GRAVEL
 - WEATHERED AMPHIBOLITE
 - AMPHIBOLITE

DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

REV: S2-P01 DATE: 07/06/24 DRAWN BY: EFC CHECKED BY: CM
DESCRIPTION: ISSUED FOR INFORMATION

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nutgrove Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: FOR INFORMATION

CLIENT: **Iarnród Éireann**
Irish Rail

PARTNER: NICHOLAS O'DWYER LTD.

PROJECT TITLE: ROSSLARE EUROPORT
ORE HUB

DRAWING No: 23170- GDG-ZZ-XX-DR-C-2002

Revision: -S2 - P01

DRAWING TITLE: RO-RO QUAY
TYPICAL SECTION

SCALE: 1:100 SHEET SIZE: A1 DATE: 07/06/2024
DRAWN BY: EFC CHECKED BY: CM APPROVED BY: D'OL



NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED
2. USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS)
3. COORDINATES ON ITM.

KEY PLAN

SCALE 1:50,000

DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

REV: S2-P02	DATE: 12/06/23	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: MINOR AMENDMENTS TO RORO PLATFORM AND BERTH			
REV: S2-P01	DATE: 07/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: ISSUED FOR INFORMATION			

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nutmeg Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: **FOR INFORMATION**

CLIENT: **Irish Rail**

PARTNER: **NICHOLAS O'DWYER LTD.**

PROJECT TITLE: **ROSSLARE EUROPORT ORE HUB**

DRAWING No: **23170-GDG-ZZ-XX-DR-C-3000**

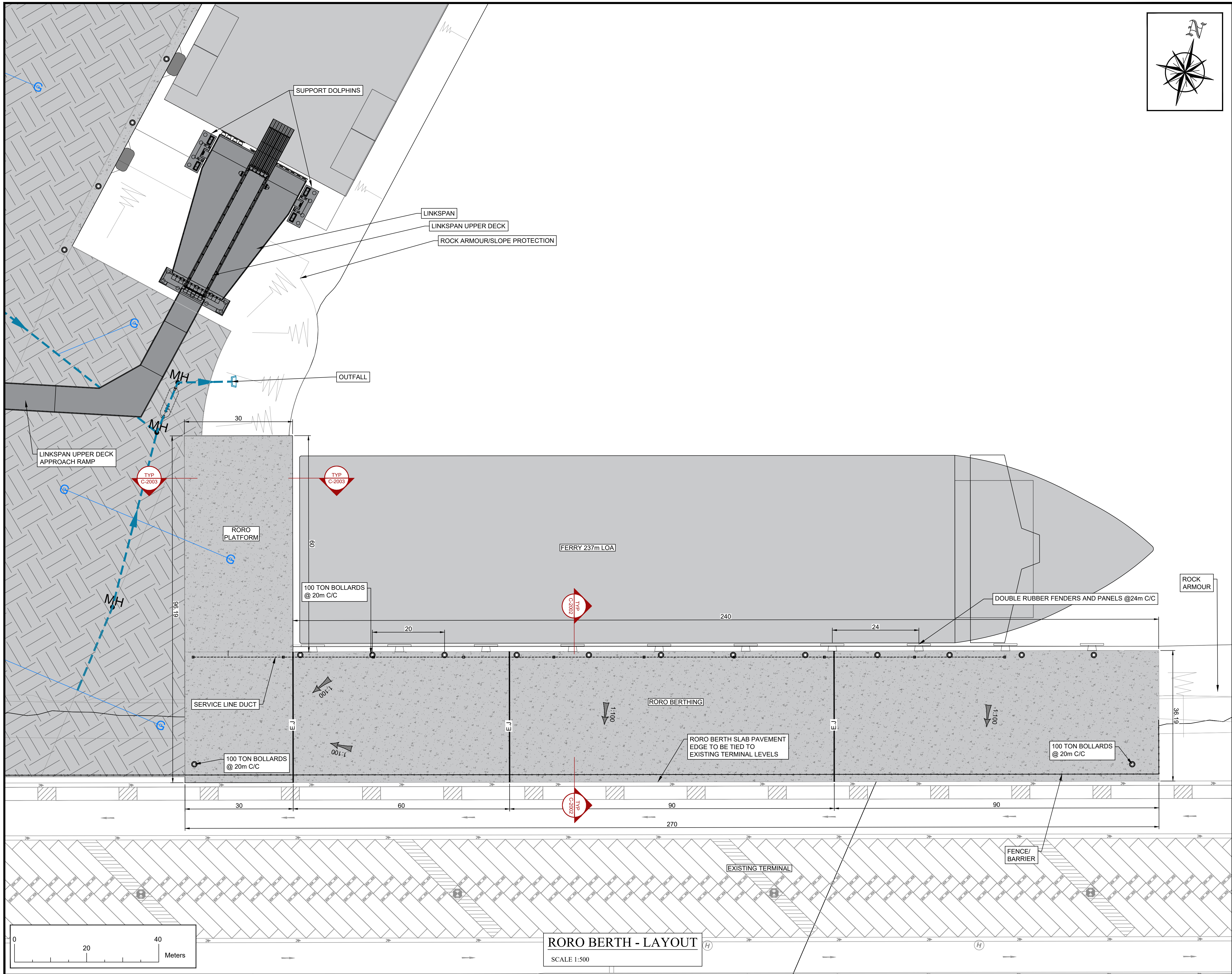
Revision: **-S2-P02**

DRAWING TITLE: **ORE HUB LAYOUT**

SCALE: 1:1250	SHEET SIZE: A1	DATE: 07/06/2024
DRAWN BY: EFC	CHECKED BY: CM	APPROVED BY: D'OL

ROSSLARE ORE HUB - LAYOUT

SCALE 1:1250



RORO BERTH - LAYOUT
SCALE 1:500

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED
2. USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS)
3. COORDINATES ON ITM.

23170-GDG-ZZ-XX-DR-C-3002

KEY PLAN

SCALE 1:10,000

DRAFT
INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INTAILED IN TITLE BLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

REV: S2-P02	DATE: 12/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: MINOR AMENDMENTS TO RORO PLATFORM AND BERTH			
REV: S2-P01	DATE: 07/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: ISSUED FOR INFORMATION			

GDG
GAVIN & DOHERTY
GEOSOLUTIONS
Unit A2,
Nutgrove Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: FOR INFORMATION

CLIENT:



PARTNER: NICHOLAS O'DWYER LTD.

PROJECT TITLE: ROSSLARE EUROPORT
ORE HUB

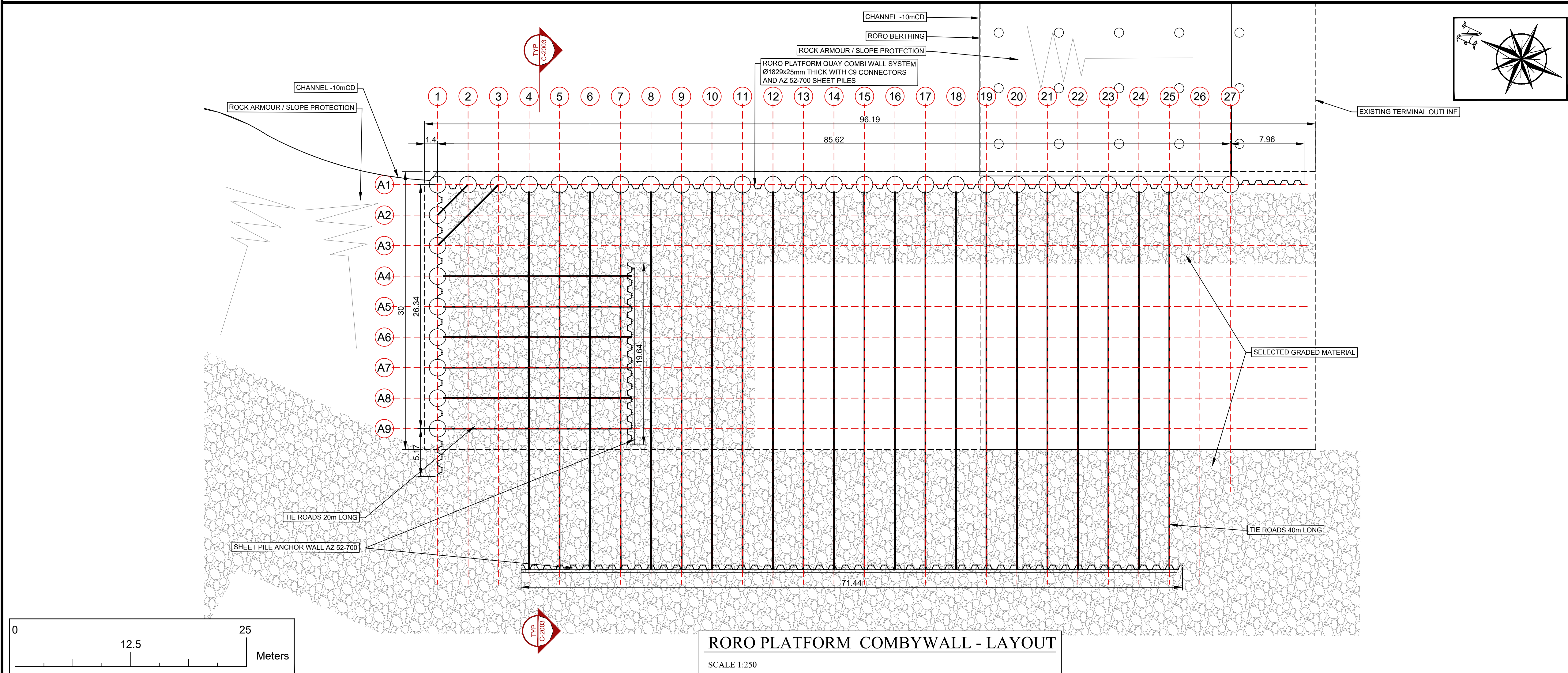
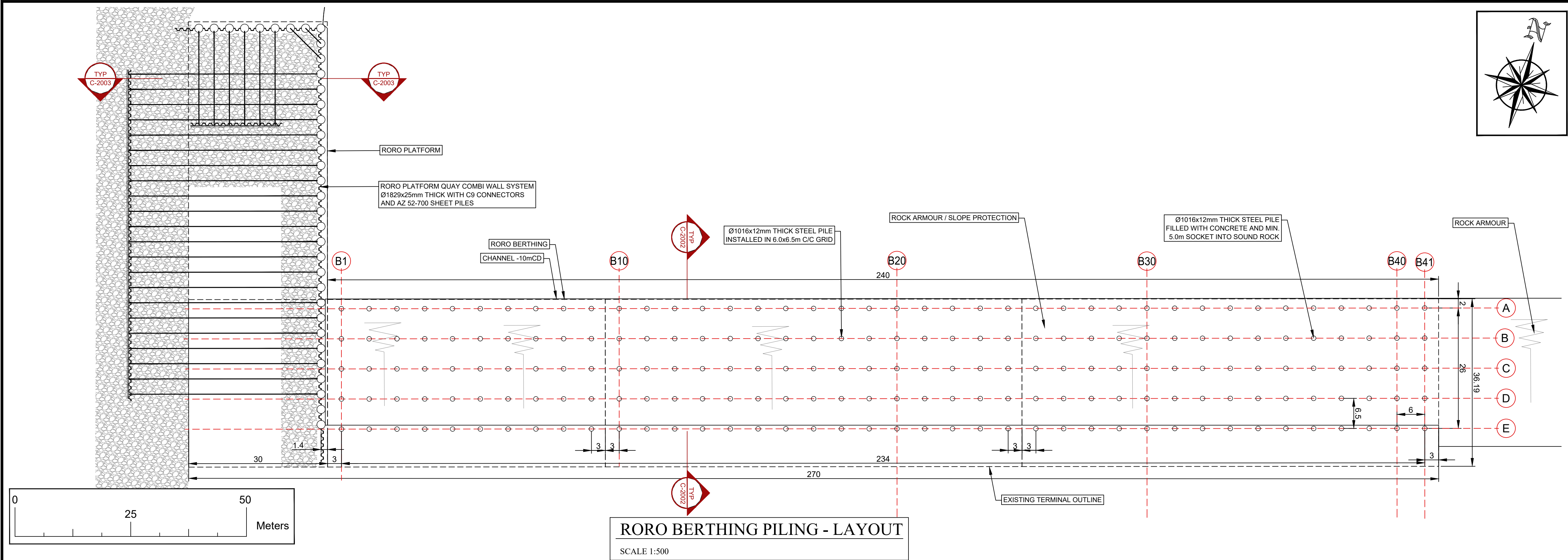
DRAWING No: 23170-GDG-ZZ-XX-DR-C-3002

Revision: -S2-P02

DRAWING TITLE:

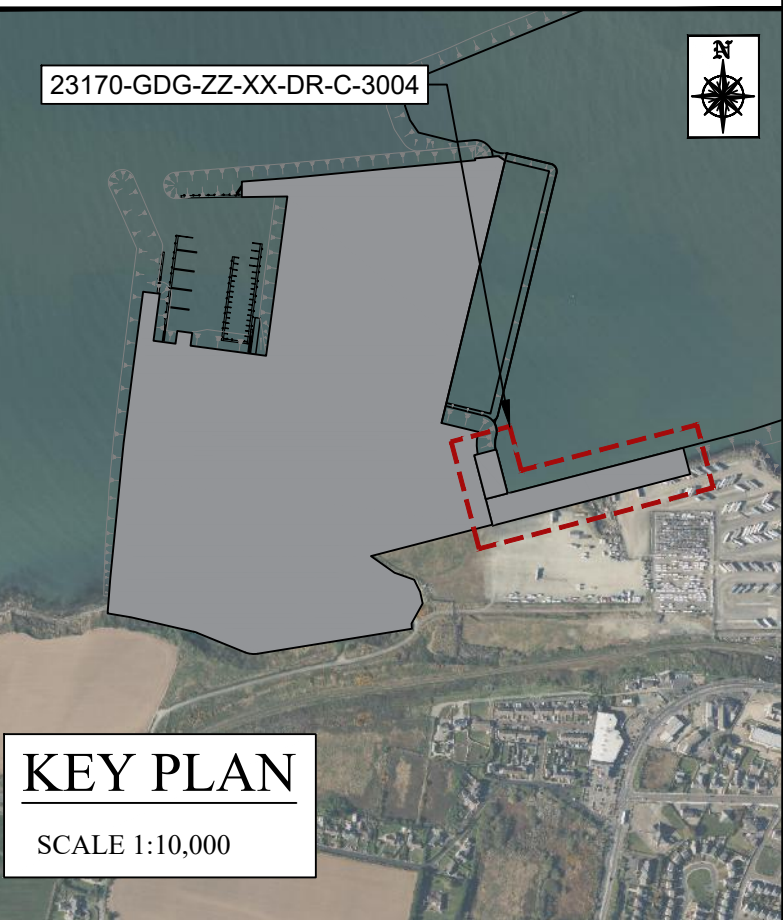
RORO BERTH
LAYOUT

SCALE: 1:500	SHEET SIZE: A1	DATE: 07/06/2024
DRAWN BY: EFC	CHECKED BY: CM	APPROVED BY: D'OL



NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED
2. USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS)
3. COORDINATES ON ITM.



DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

REV: S2-P02	DATE: 12/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: RORO PLATFORM AND BERTH UPDATED			
REV: S2-P01	DATE: 07/06/24	DRAWN BY: EFC	CHECKED BY: CM
DESCRIPTION: ISSUED FOR INFORMATION			

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nutmeg Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: FOR INFORMATION

CLIENT:

Iarnród Éireann
Irish Rail

PARTNER: NICHOLAS O'DWYER LTD.

PROJECT TITLE: ROSSLARE EUROPORT
ORE HUB

Drawing No: 23170-GDG-ZZ-XX-DR-C-3004

Revision: -S2-P01

DRAWING TITLE: RO RO BERTHING
SUBSTRUCTURES
LAYOUT

SCALE: SHOWN	SHEET SIZE: A1	DATE: 07/06/2024
DRAWN BY: EFC	CHECKED BY: CM	APPROVED BY: DO'L



NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED
- USE DIMENSIONS ON DRAWINGS (DO NOT SCALE FROM DRAWINGS)
- REFER TO DWG 2317-GDG-ZZ-XX-DR-C-3101 FOR ELEVATION DETAILS

DRAFT

INDICATIVE DESIGN ONLY. ELEMENTS OF DESIGN MAY NEED TO BE REVISED OR FURTHER DEVELOPED. PLEASE CHECK WITH DESIGN ENGINEER INITIALED IN TITLEBLOCK PRIOR TO REFERRING TO INFORMATION WITHIN THIS DRAWING.

REV:	S2-P01	DATE:	15/07/24	DRAWN BY:	R.R.	CHECKED BY:	C.M.
DESCRIPTION:	ISSUED FOR INFORMATION						

GDG

GAVIN & DOHERTY
GEOSOLUTIONS

Unit A2,
Nugrope Office Park,
Rathfarnham,
Dublin 14, D14 X627
Ireland.
T +353 (0)1-2071000
E info@gdgeo.com
www.gdgeo.com

ISSUED AS: FOR INFORMATION

CLIENT:

PARTNER: NICHOLAS O'DWYER LTD.

PROJECT TITLE: ROSSLARE EUROPORT ORE HUB

DRAWING No: 23171-GDG-ZZ-XX-DR-C-3100

Revision: -S2 - P01

DRAWING TITLE: HEAVY LIFT QUAY WALL AND RORO BERTHING PLAN

SCALE:	1:2000	SHEET SIZE:	A1	DATE:	15/07/2024
DRAWN BY:	R.R.	CHECKED BY:	C.M.	APPROVED BY:	D.O'L