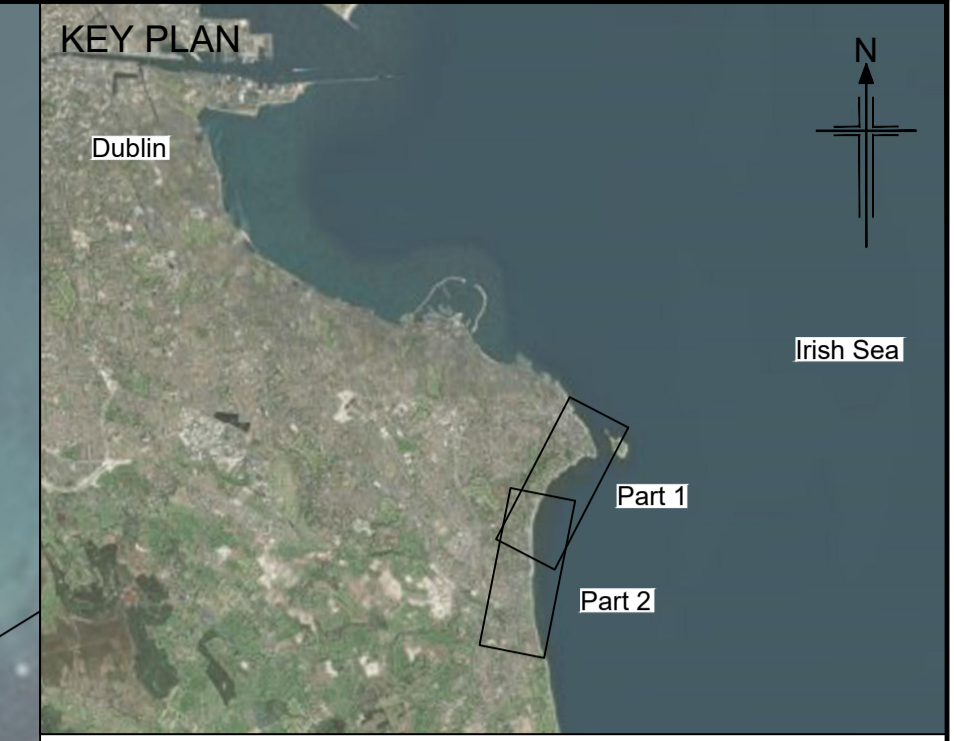


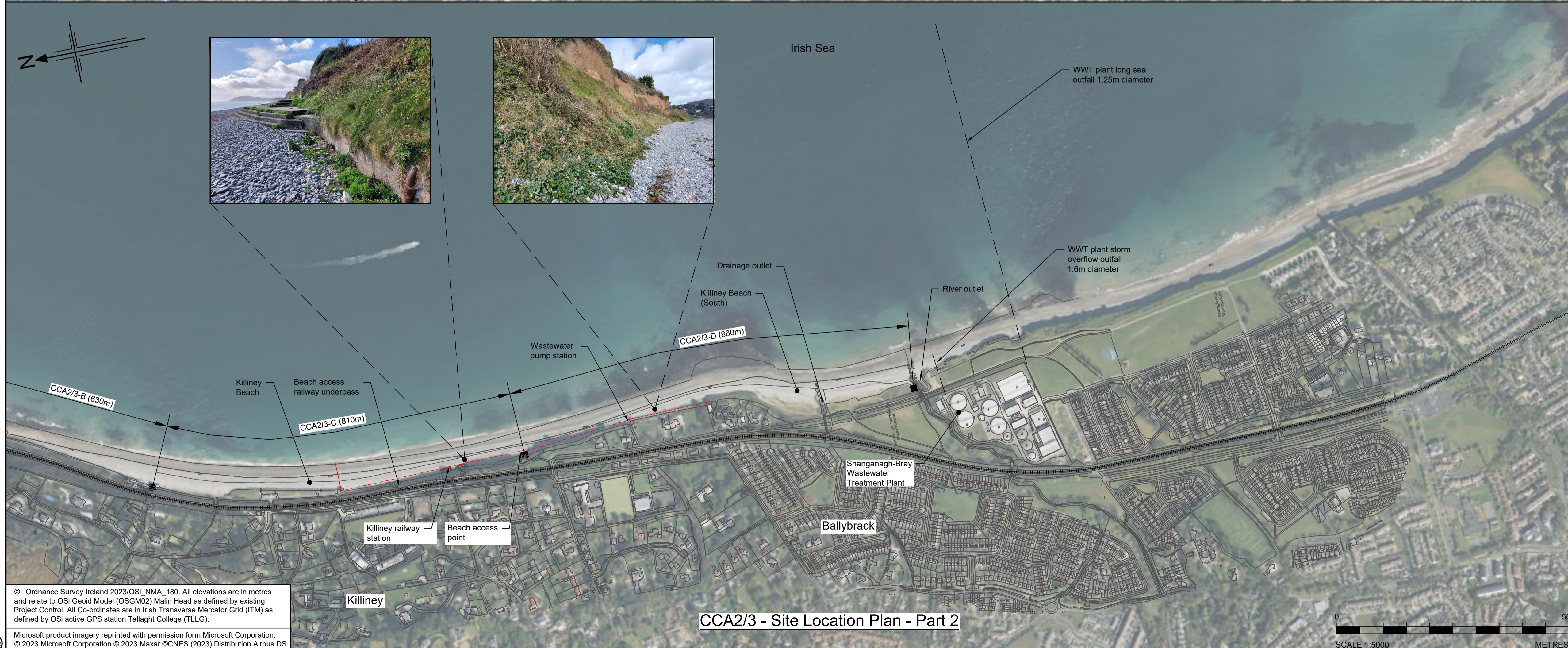
CCA2/3 - Site Location Plan - Part 1



- NOTES**
- All levels are in mODM.
  - Do not scale from this drawing.
  - The railway line is electrified through this cell with overhead power lines.

- LEGEND**
- Railway line
  - Existing Services
  - Wastewater gravity main 100mm
  - Wastewater gravity main 250mm diameter uPVC
  - Wastewater storm overflow outfall 375mm diameter

Sub-Cell	Sub-cell Name	Length (m)
CCA2/3-A	Vico Cliffs	850
CCA2/3-B	Whiterock	630
CCA2/3-C	Killiney Beach	810
CCA2/3-D	South Killiney	860



CCA2/3 - Site Location Plan - Part 2

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft Issue For Information	PC	JG	JUD	DK

Client: **lanród Éireann Irish Rail**

Designer: **Jacobs**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C3, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA2/3 SITE LOCATION PLAN**

Drawing status: **Accepted**

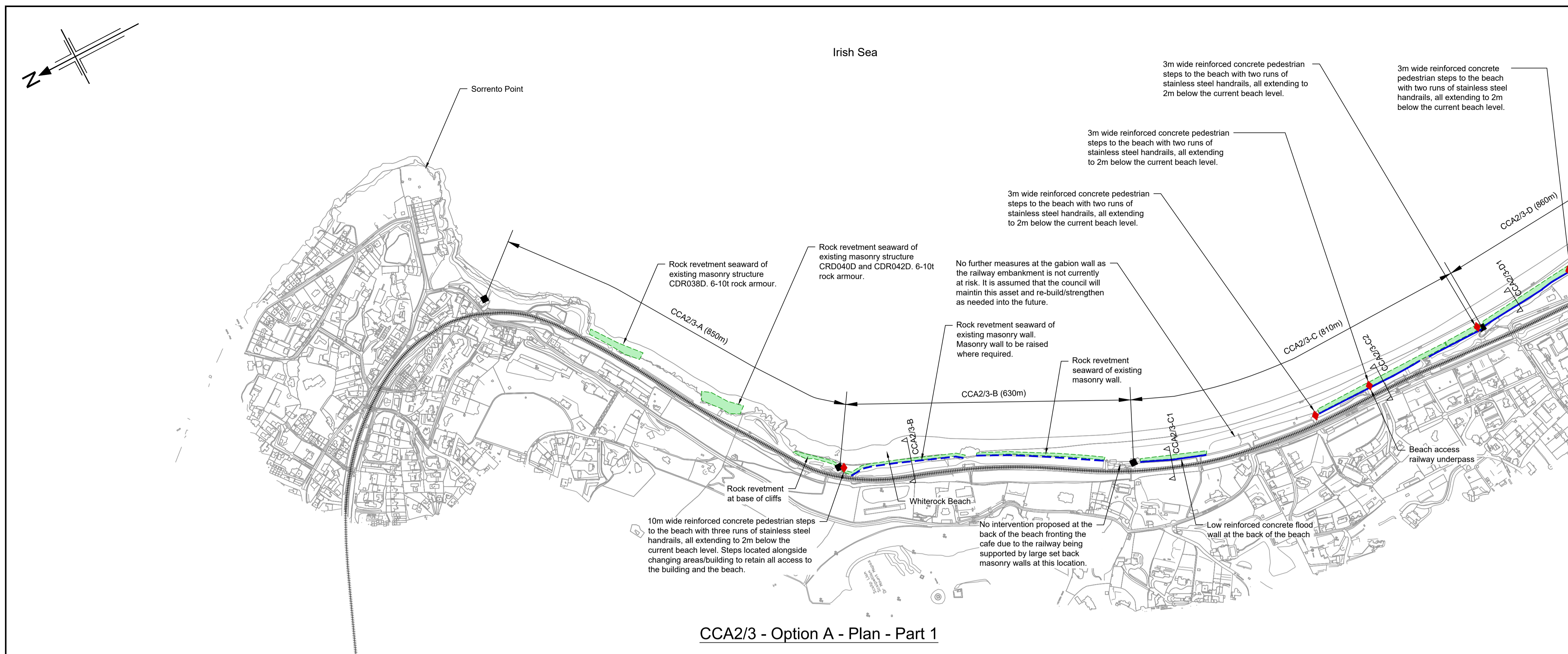
State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694-	CCA2_3	-P2-
	Type	Discipline	Originator
	DWG- CV	- JAC	- 0001



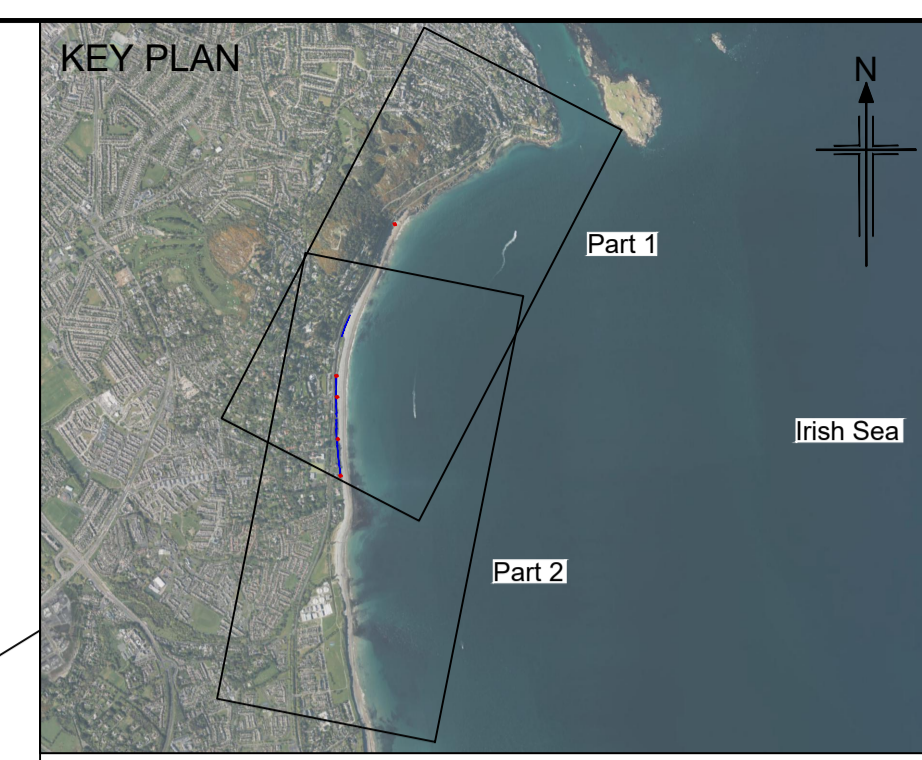
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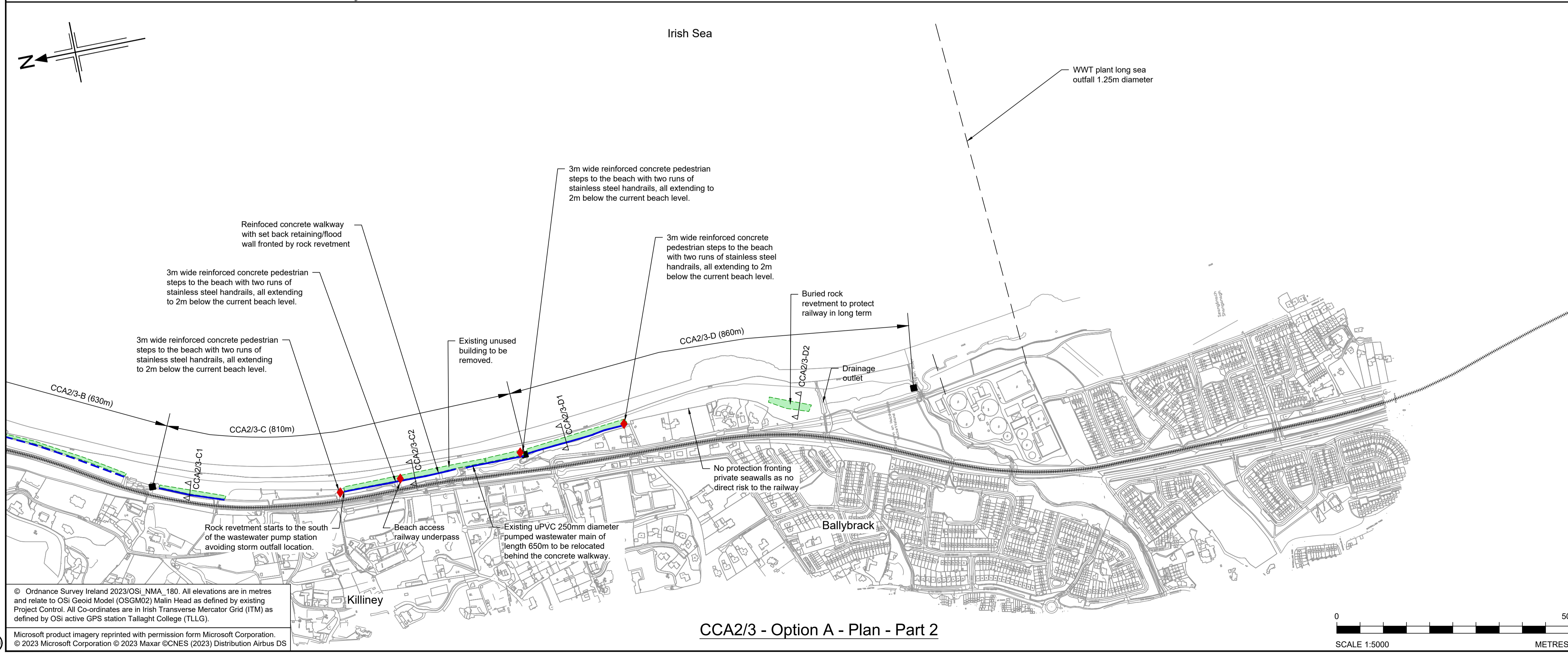


CCA2/3 - Option A - Plan - Part 1



- NOTES**
- All levels are in mODM.
  - Do not scale from this drawing.
  - Size and location of all structures is indicative only and to be determined through design development.
  - Pedestrian beach access point through defences.

- LEGEND**
- Railway line
  - Section locations
- Proposed Works**
- Wall raising
  - Concrete walkway with wave wall
  - Rock revetment
  - Pedestrian beach access point through defences



CCA2/3 - Option A - Plan - Part 2

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft Issue For Information	PC	JG	JUD	DK

Client: **lanród Éireann Irish Rail**

Designer: **JACOBS**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C3, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA 2/3 OPTION A PLAN**

Drawing status: **Accepted**

State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694-	CCA2_3	-P2-
	Type	Discipline	Originator
	DWG- CV	- JAC	- 0100

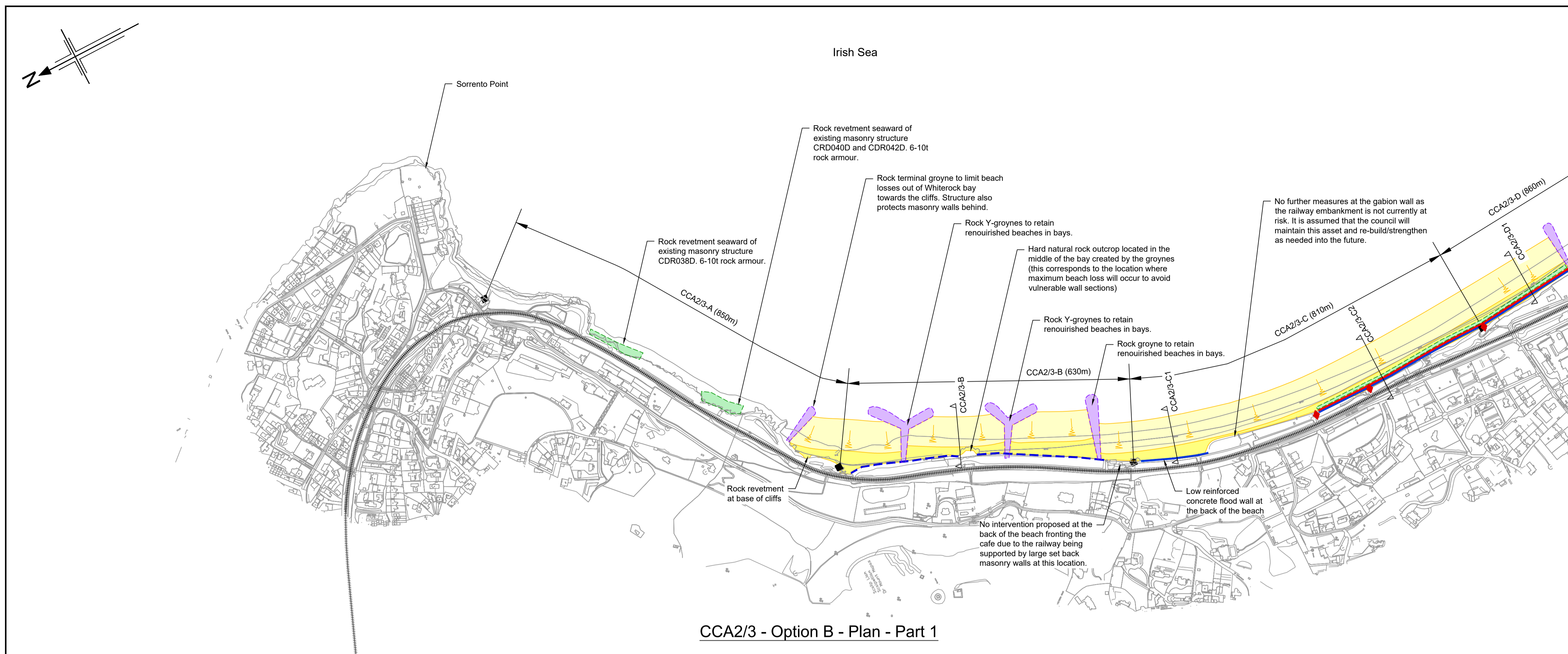
SCALE 1:5000 METRES

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CCA2/3 - Option B - Plan - Part 1



**NOTES**

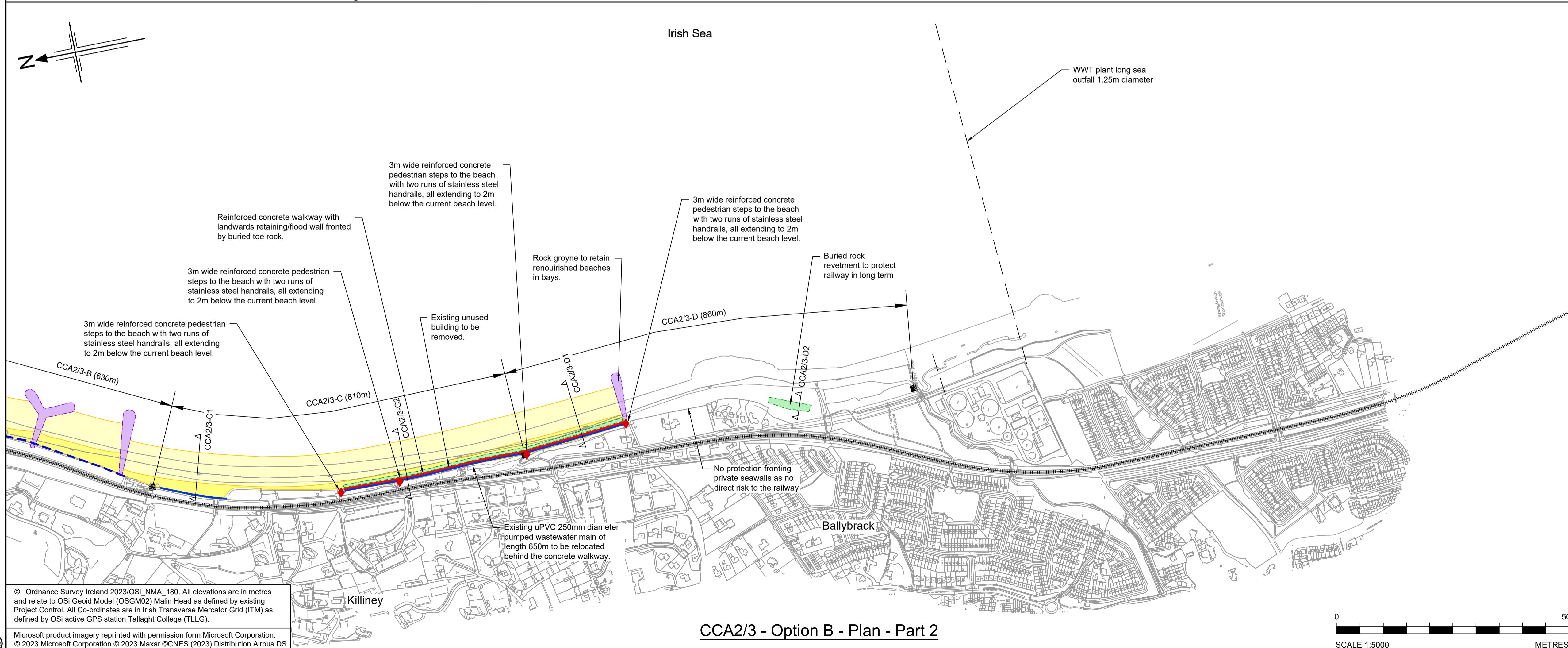
- All levels are in mODM.
- Do not scale from this drawing.
- Size and location of all structures is indicative only and to be determined through design development.

**LEGEND**

- Railway line
- Section locations

**Proposed Works**

- Wall raising
- Concrete walkway and wave wall
- Sheet pile
- Rock revetment
- Groyne
- Beach nourishment
- Pedestrian beach access point through defences



CCA2/3 - Option B - Plan - Part 2

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Minor amendments	AE	JG	JUD	DK
P01.1	11.12.2023	Draft Issue For Information	PC	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Client: **lanród Éireann Irish Rail**

Designer: **JACOBS**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C3, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA 2/3 OPTION B PLAN**

Drawing status: **Accepted**

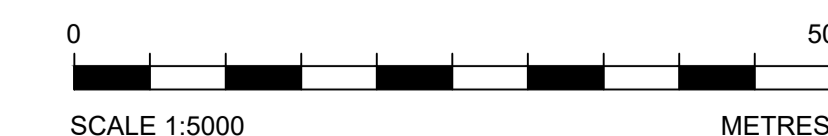
State Code: Contract / Work Package 2-3  
Project Stage: Project Concept, Feasibility & Option Selection  
Scale: 1:5000 **DO NOT SCALE**  
Jacobus No.: D3658300 Rev: **V01**  
Client no.: 7694

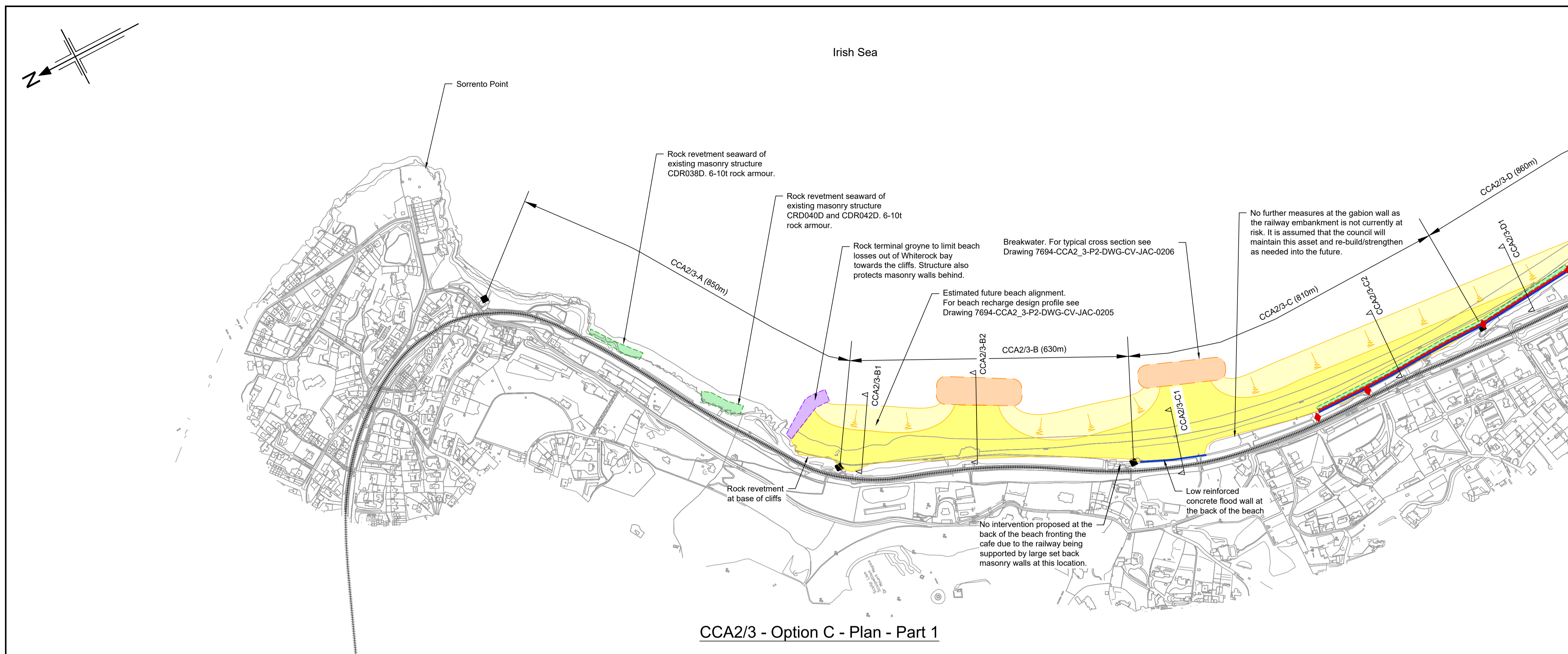
Drawing number: **7694- CCA2\_3 - P2 - DWG - CV - JAC - 0101**

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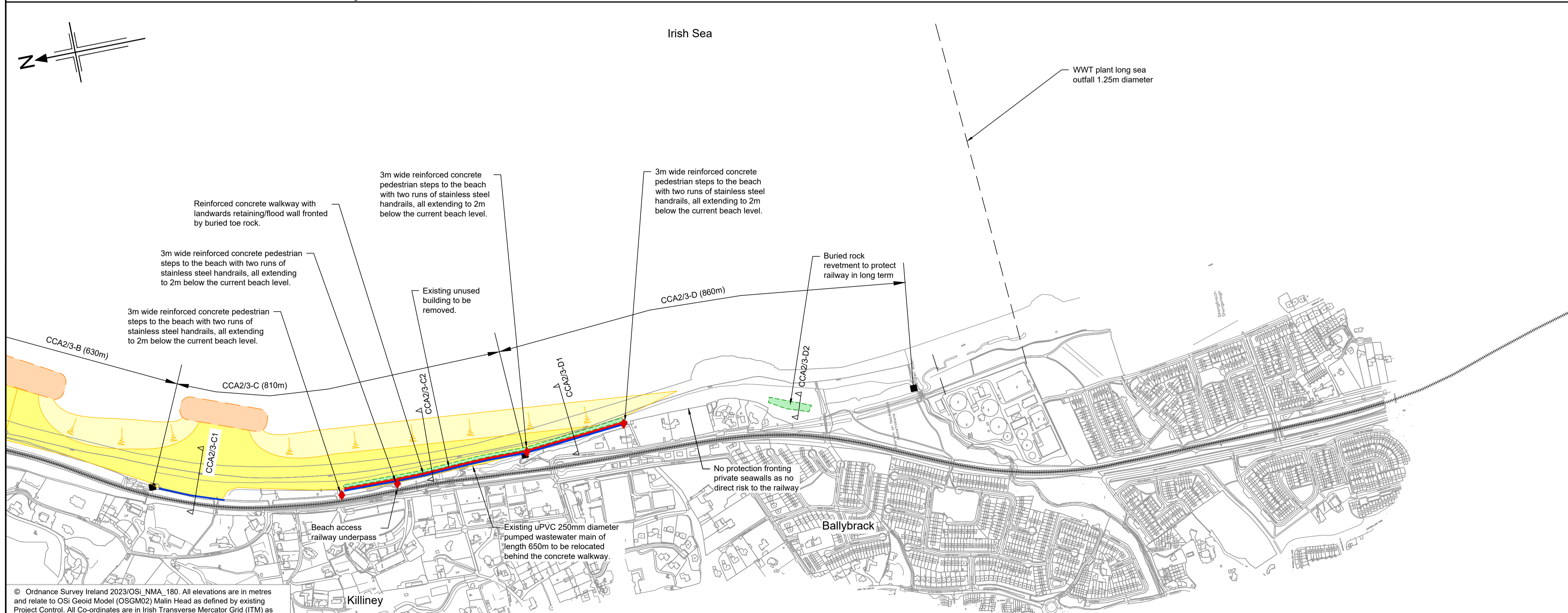




CCA2/3 - Option C - Plan - Part 1



- NOTES**
- All levels are in mODM.
  - Do not scale from this drawing.
  - Size and location of all structures is indicative only and to be determined through design development.
- LEGEND**
- Railway line
  - Section locations
- Proposed Works**
- Wall raising
  - Concrete walkway and wave wall
  - Sheet pile
  - Rock revetment
  - Groyne
  - Beach nourishment
  - Pedestrian beach access point through defences



CCA2/3 - Option C - Plan - Part 2

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comment addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft Issue For Information	PC	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

Client

Designer:

Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9602000 www.jacobs.com

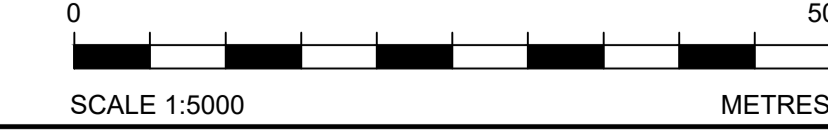
Project

Drawing title

**CONCEPT DESIGN  
CCA 2/3  
OPTION C PLAN**

Drawing status: Accepted

State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694-	CCA2_3	-P2-
	Type	Discipline	Originator
	DWG	- CV	- JAC
			Number
			- 0102



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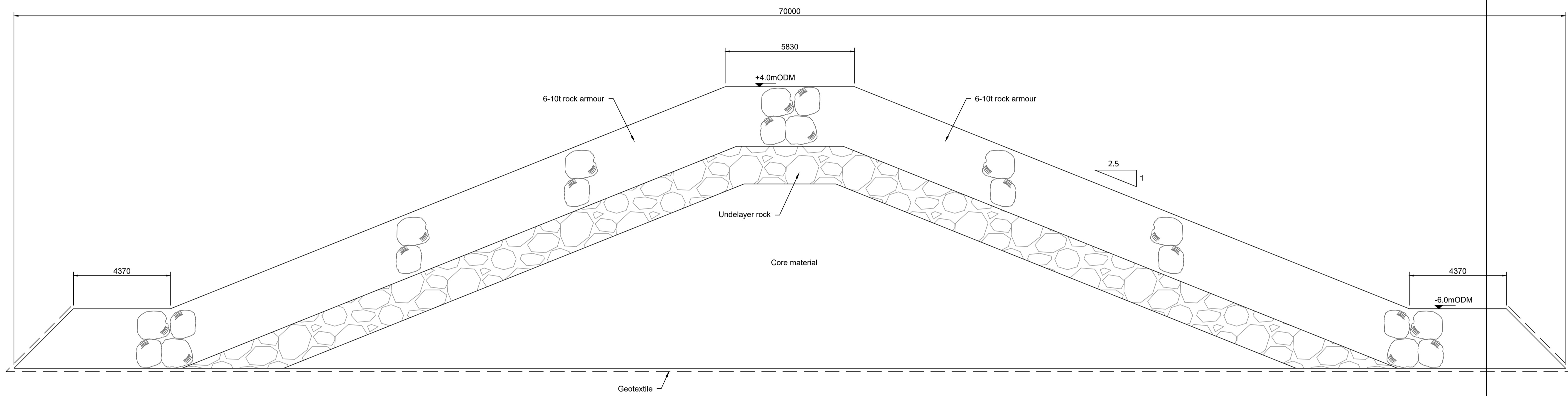
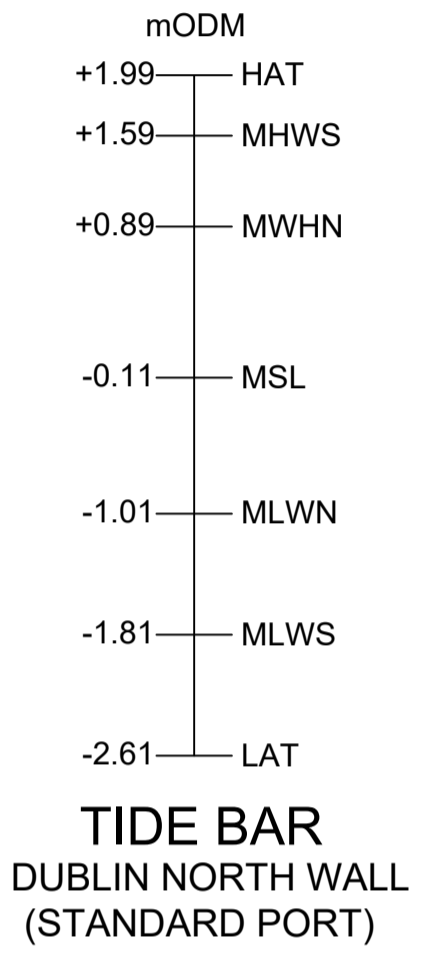
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- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
  - For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0102.

**Legend**

--- Geotextile



**CCA2-3 - B & C - OPTION C - TYPICAL BREAKWATER CROSS SECTION**  
Scale 1:100

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Client: **Irish Rail**

Designer: **Jacobs**  
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5. Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CCA2/3 B & C  
BREAKWATER CROSS SECTION  
OPTION C**

Drawing status: **Accepted**

State Code: Contract / Work Package 2-3

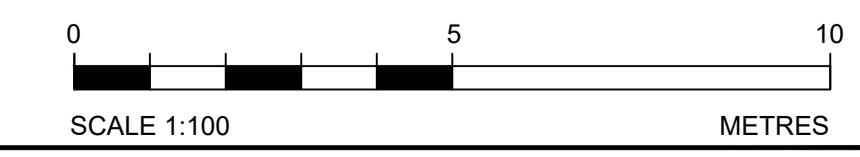
Project Stage: Project Concept, Feasibility & Option Selection

Scale: 1:100 DO NOT SCALE

Jacobs No. D3658300 Rev V01

Client no. 7694

Drawing number: **7694- CCA2\_3 -P2 - DWG- CV - JAC - 0206**



C:\pwworking\jacobs-emea-01\60189014\7694-CCA2\_3-P2-DWG-CV-JAC-0206.dwg - 29/02/2024 13:04:34 - CCA2-3-0204 - RM059324

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- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
  - Groyne cross sections are typical and will vary for each groyne. To be confirmed upon receipt of topographic data.
  - For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0203.

**Legend**

--- Geotextile

mODM

+1.99 HAT

+1.59 MHWS

+0.89 MWHN

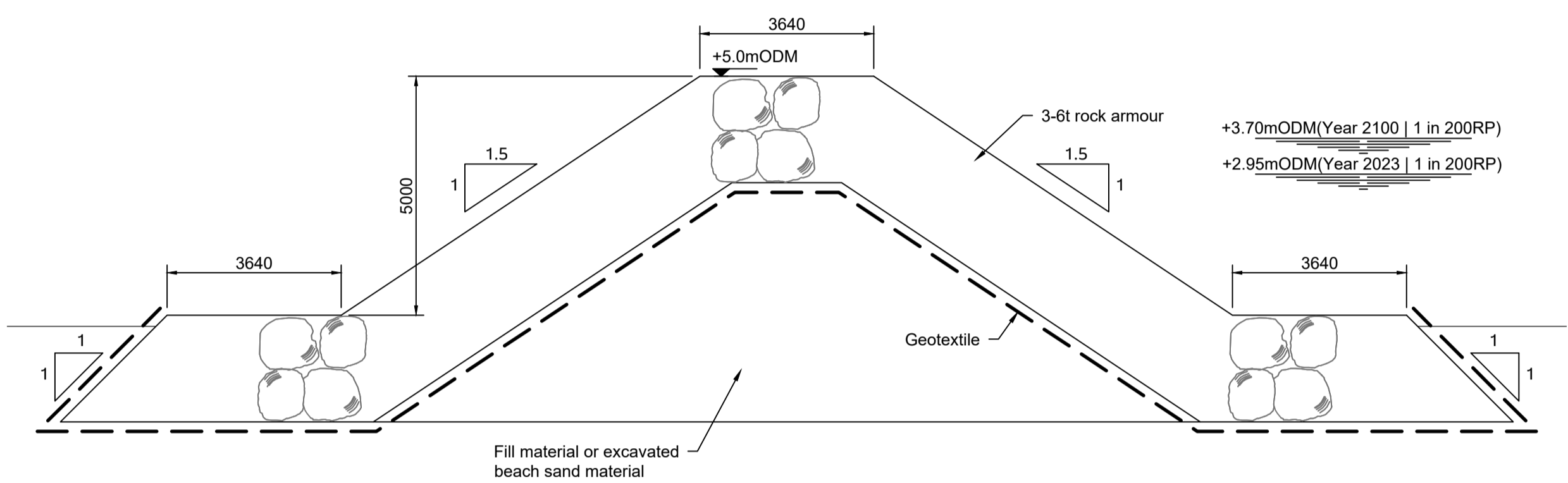
-0.11 MSL

-1.01 MLWN

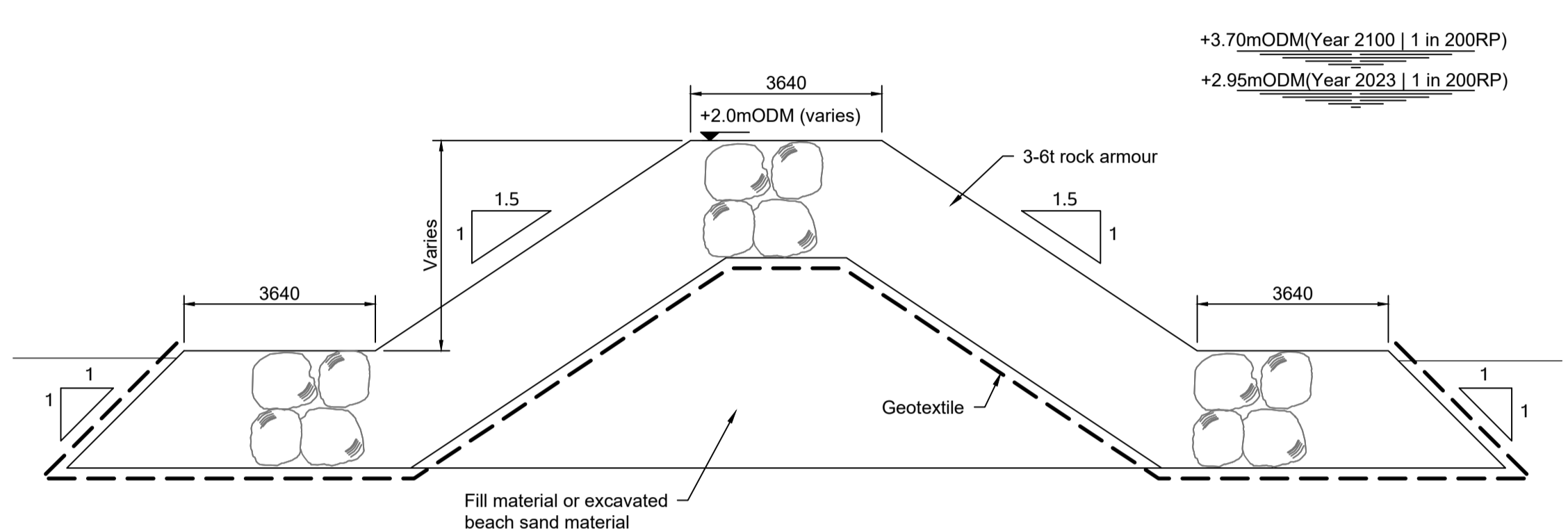
-1.81 MLWS

-2.61 LAT

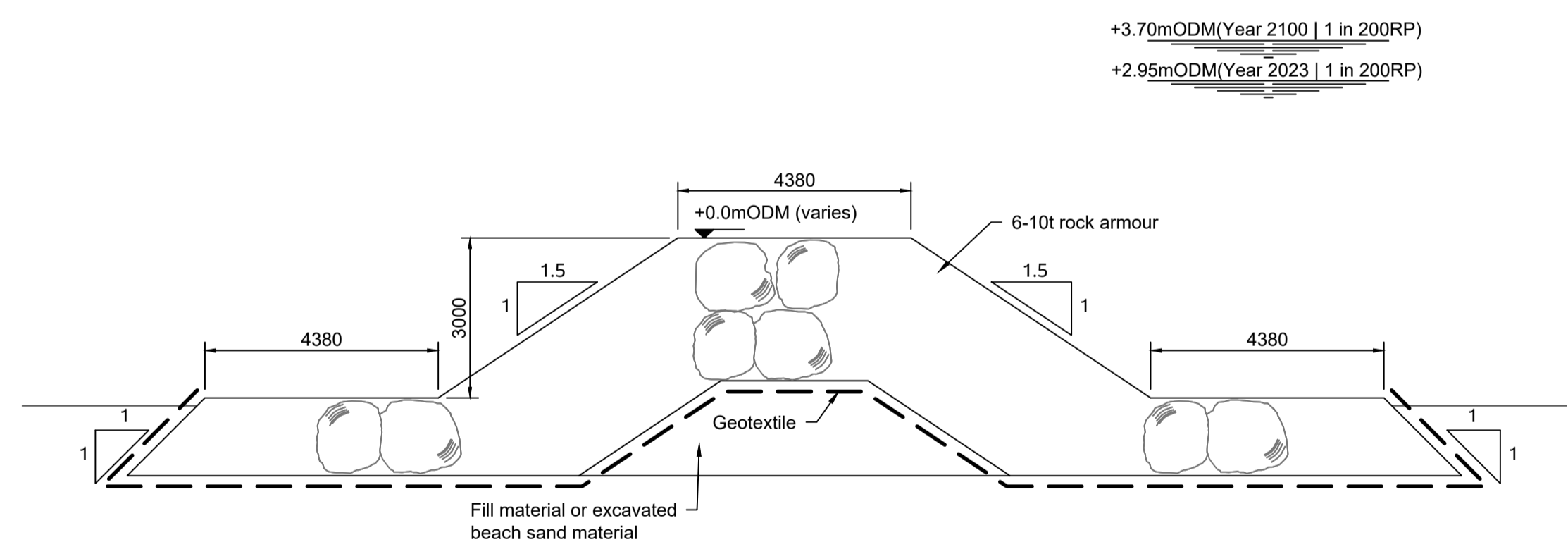
**TIDE BAR**  
DUBLIN NORTH WALL  
(STANDARD PORT)



CCA2-3 - B & D - OPTION B - TYPICAL GROUYNE CROSS SECTION 1  
Scale 1:100



CCA2-3 - B & D - OPTION B - TYPICAL GROUYNE CROSS SECTION 2  
Scale 1:100



CCA2-3 - B & D - OPTION B - TYPICAL GROUYNE CROSS SECTION 3  
Scale 1:100

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK

Client

Designer:

Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

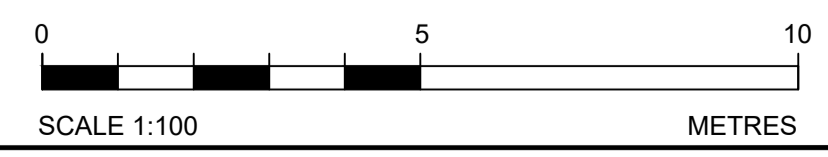
Project

Drawing title

**CCA2/3 B, C & D1  
GROYNE CROSS SECTIONS  
OPTION B**

Drawing status: **Accepted**

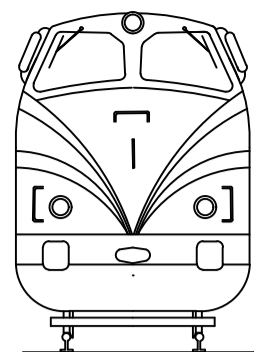
State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
7694-CCA2_3-P2-			
DWG-CV-JAC-0204	Discipline	Originator	Number



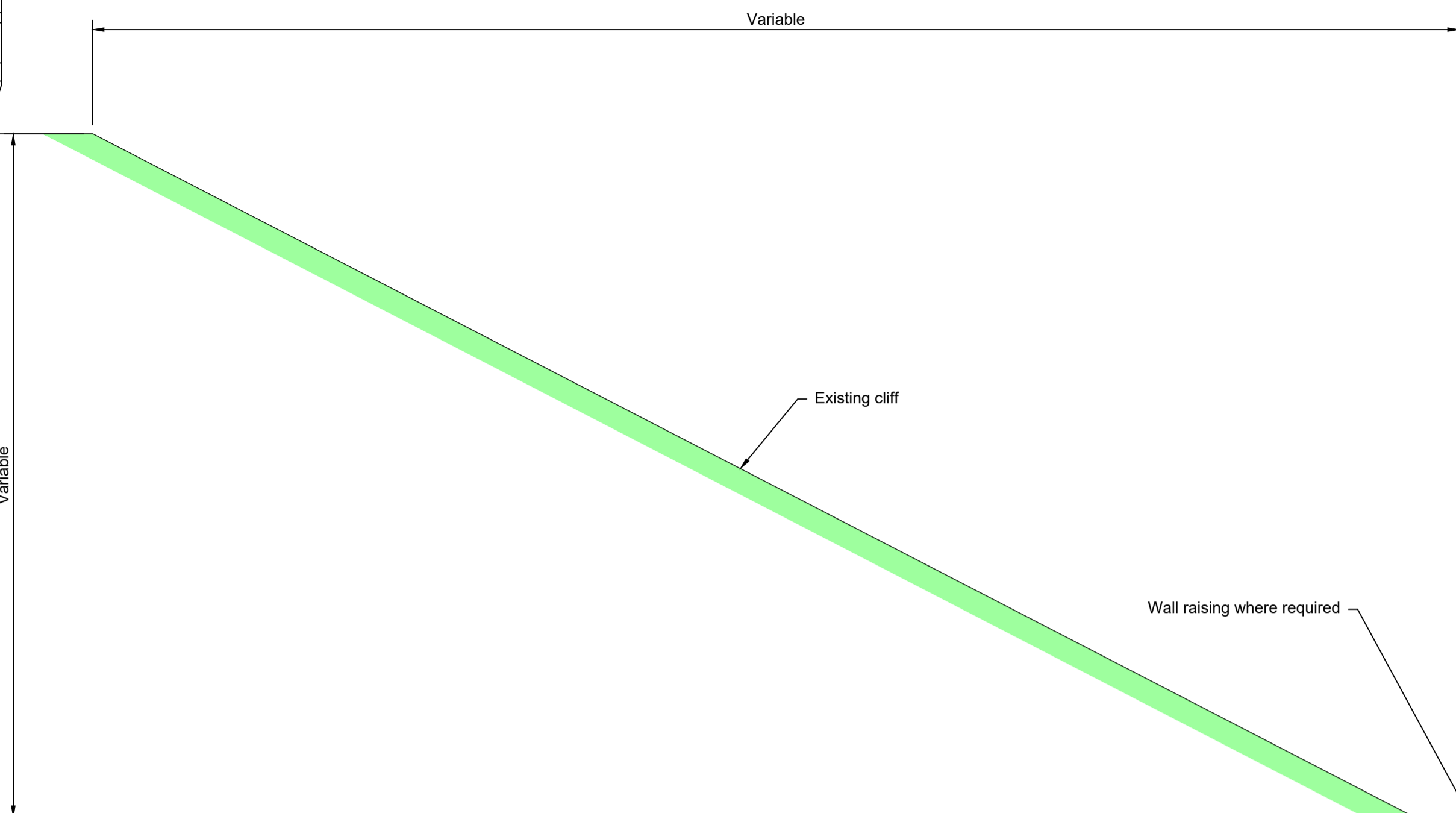
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Variable

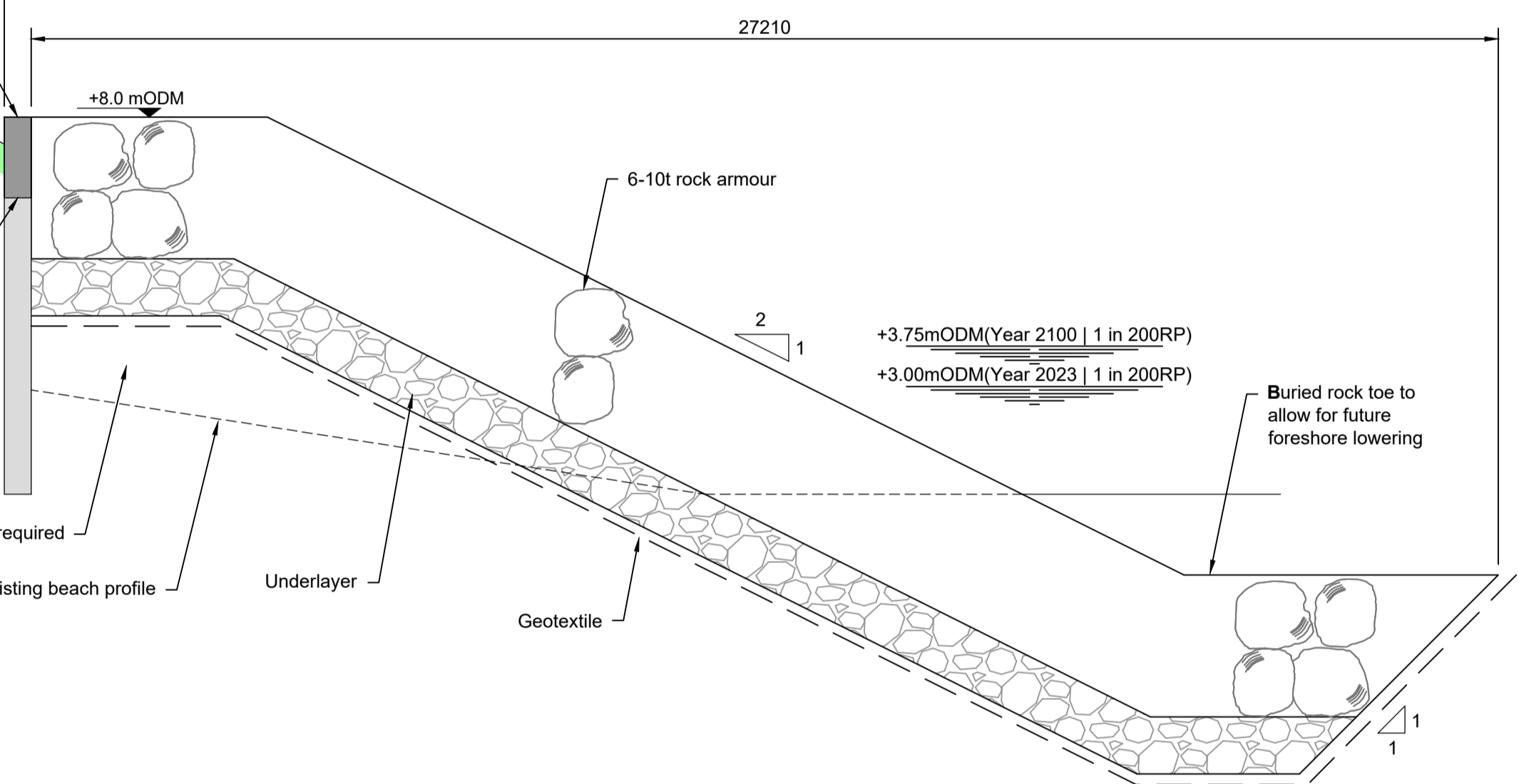


CCA2-3-B OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT FRONTING EXISTING WALL AND CLIFF

Scale 1:100

Existing cliff

Wall raising where required



+8.0 mODM

6-10t rock armour

2  
1

+3.75mODM(Year 2100 | 1 in 200RP)

+3.00mODM(Year 2023 | 1 in 200RP)

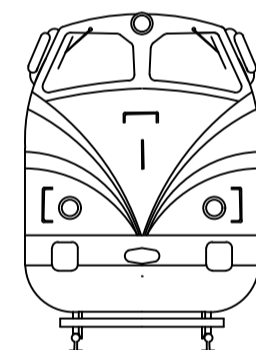
Buried rock toe to allow for future foreshore lowering

Fill material where required

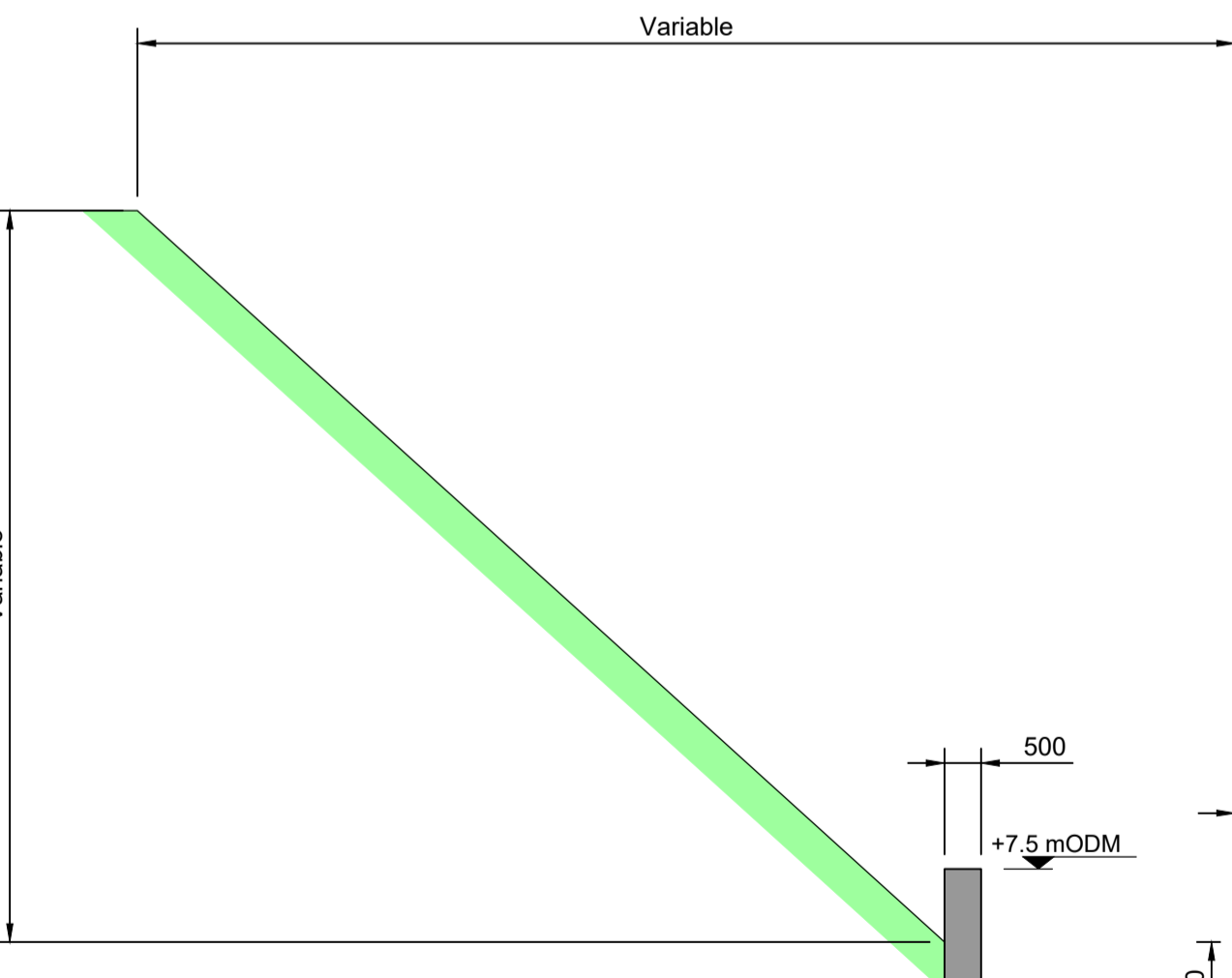
Estimated existing beach profile

Underlayer

Geotextile



Variable



CCA2-3-C1 OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT FRONTING EXISTING PATH AND CLIFF

Scale 1:100

500

+7.5 mODM

+5.5 mODM

3470

1500

Existing footpath level (estimated)

500

+6.5 mODM

20016

3-6t rock armour

2  
1

+3.75mODM(Year 2100 | 1 in 200RP)

+3.00mODM(Year 2023 | 1 in 200RP)

Buried rock toe to allow for future foreshore lowering

Underlayer

Geotextile

Notes:

- All levels are in mODM
- Do not scale from this drawing.
- Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
- For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0100.

Legend

- Existing Structures
- New Reinforced Concrete Wall
- Geotextile

mODM	
+1.99	HAT
+1.59	MHWS
+0.89	MWHN
-0.11	MSL
-1.01	MLWN
-1.81	MLWS
-2.61	LAT

TIDE BAR  
DUBLIN NORTH WALL  
(STANDARD PORT)

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK

Client:

Designer:   
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C3, Tel: +44 (0)203 9802000 www.jacobs.com

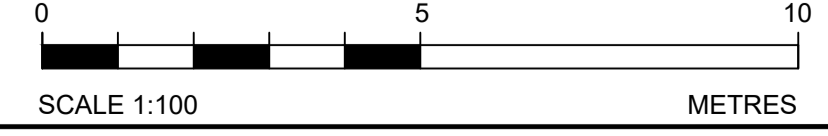
Project:

Drawing title: **CCA2/3-B & C  
CROSS SECTIONS  
OPTION A**

Drawing status: **Accepted**

State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

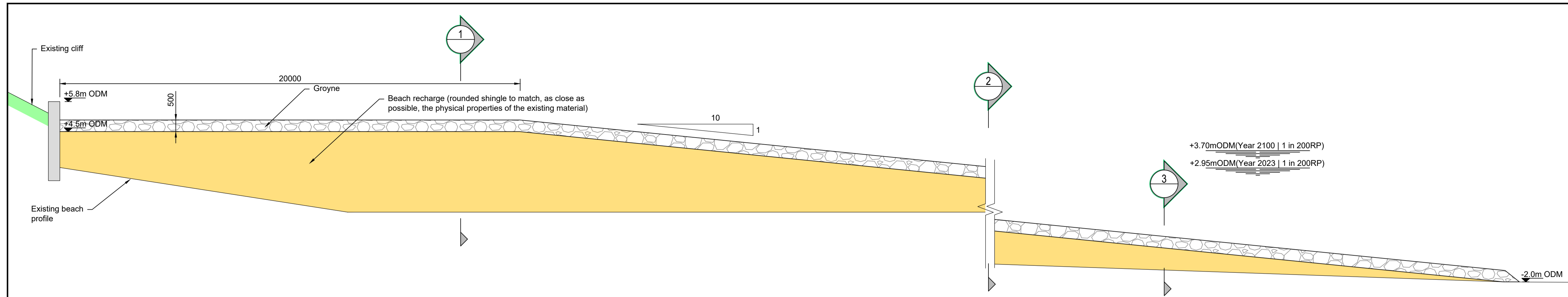
Drawing number	Project No	Work Package	Phase
7694-	CCA2_3	-P2	-
DWG- CV	- JAC	-	- 0200



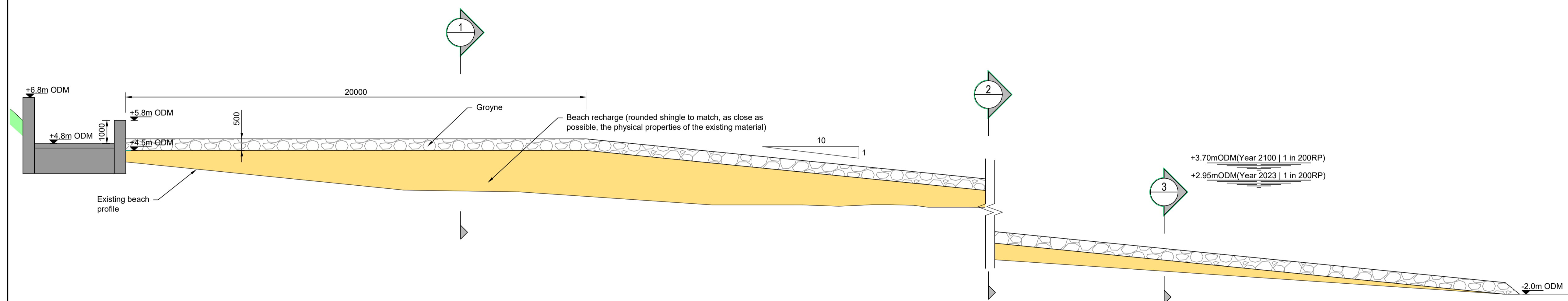
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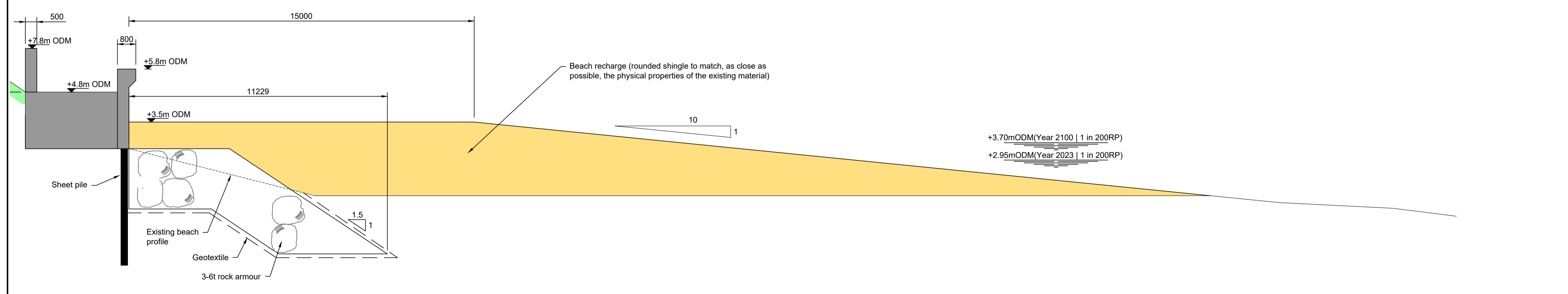
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CCA2-3-B OPTION B - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING WALL  
Scale 1:100



CCA2-3-C1 OPTION B - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING PATH AND CLIFF  
Scale 1:100



CCA2-3-C2 & D1 OPTION B - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING PATH AND CLIFF  
Scale 1:100

- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
  - For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0101.
  - Estimated beach equilibrium shape shown on drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0101.

- Legend**
- Existing Structures
  - New Reinforced Concrete Wall
  - Geotextile

mODM

+1.99	HAT
+1.59	MHWS
+0.89	MWHN
-0.11	MSL
-1.01	MLWN
-1.81	MLWS
-2.61	LAT

**TIDE BAR  
DUBLIN NORTH WALL  
(STANDARD PORT)**

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK

Client: **lanród Éireann  
Irish Rail**

Designer: **Jacobs**  
Merrion House, Merrion Rd, Dublin 4,  
Ireland, D04R2C5. Tel: +44 (0)203 9802000  
www.jacobs.com

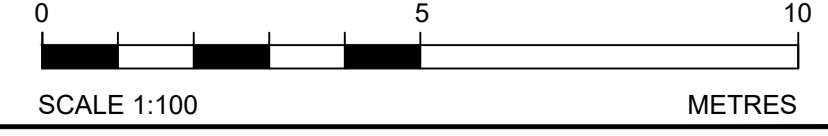
Project: **ECRIPP**  
Irish Rail

Drawing title: **CCA2/3-B, C & D1  
BEACH CROSS SECTIONS  
OPTION B**

Drawing status: **Accepted**

State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

Drawing number	Project No	Work Package	Phase
7694- DWG-CV	CCA2_3	-P2	-
	Type	Discipline	Originator
	JAC	-JAC	-0203

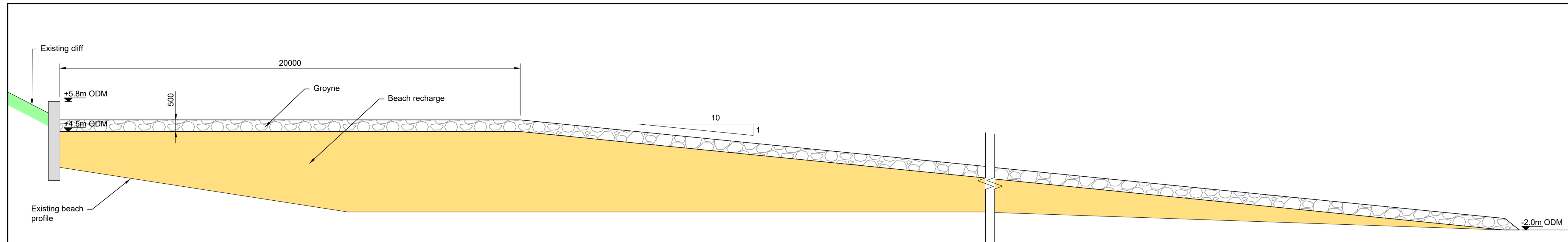


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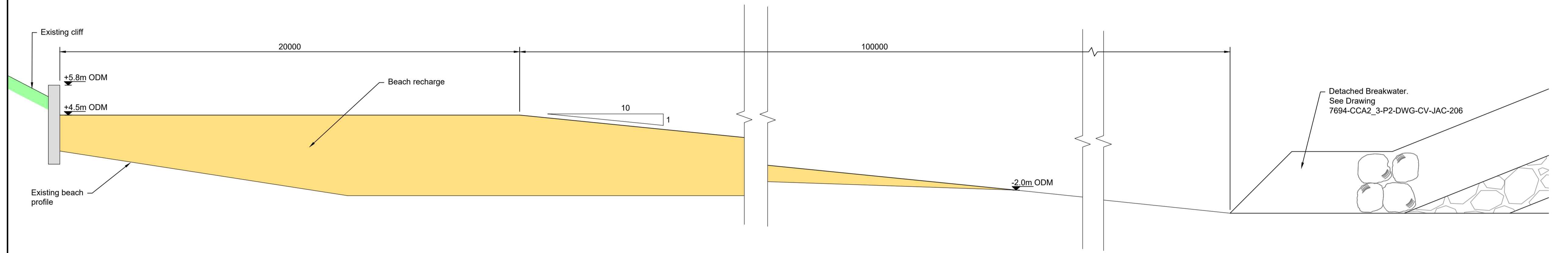
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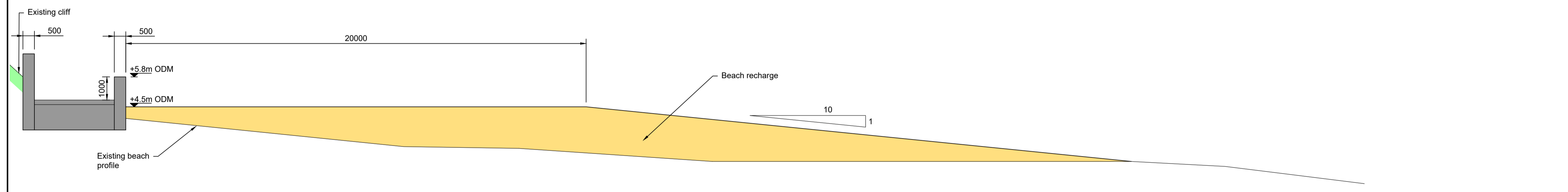




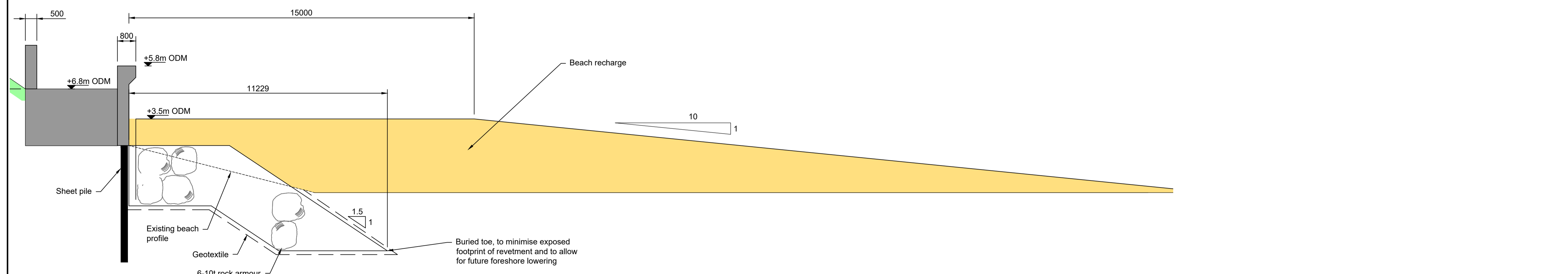
CCA2-3-B1 OPTION C - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING WALL  
Scale 1:100



CCA2-3-B2 OPTION C - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING WALL  
Scale 1:100



CCA2-3-C1 OPTION C - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING PATH AND CLIFF  
Scale 1:100



CCA2-3-C2 & D1 OPTION C - TYPICAL CROSS SECTION DESIGN BEACH FRONTING EXISTING PATH AND CLIFF  
Scale 1:100

- Notes:**
- All levels are in mODM
  - Do not scale from this drawing.
  - Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
  - All levels and dimensions are approximate and to be confirmed through design development.
  - Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
  - For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0102.
  - Estimated equilibrium beach shape is shown on drawing 7694-CCA2\_3-P2-DWG-CV-JAC-102.

- Legend**
- Existing Structures
  - New Reinforced Concrete Wall
  - Geotextile

mODM

+1.99	HAT
+1.59	MHWS
+0.89	MWHN
-0.11	MSL
-1.01	MLWN
-1.81	MLWS
-2.61	LAT

**TIDE BAR  
DUBLIN NORTH WALL  
(STANDARD PORT)**

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK

Client:

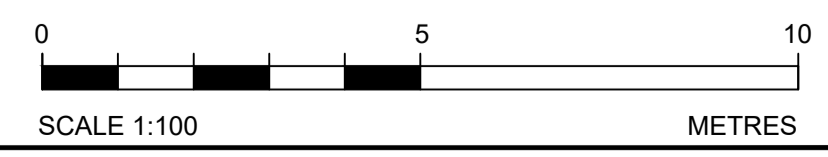
Designer:   
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5. Tel: +44 (0)203 9802000 www.jacobs.com

Project:

Drawing title: **CCA2/3-B, C & D1  
BEACH CROSS SECTIONS  
OPTION C**

Drawing status: **Accepted**

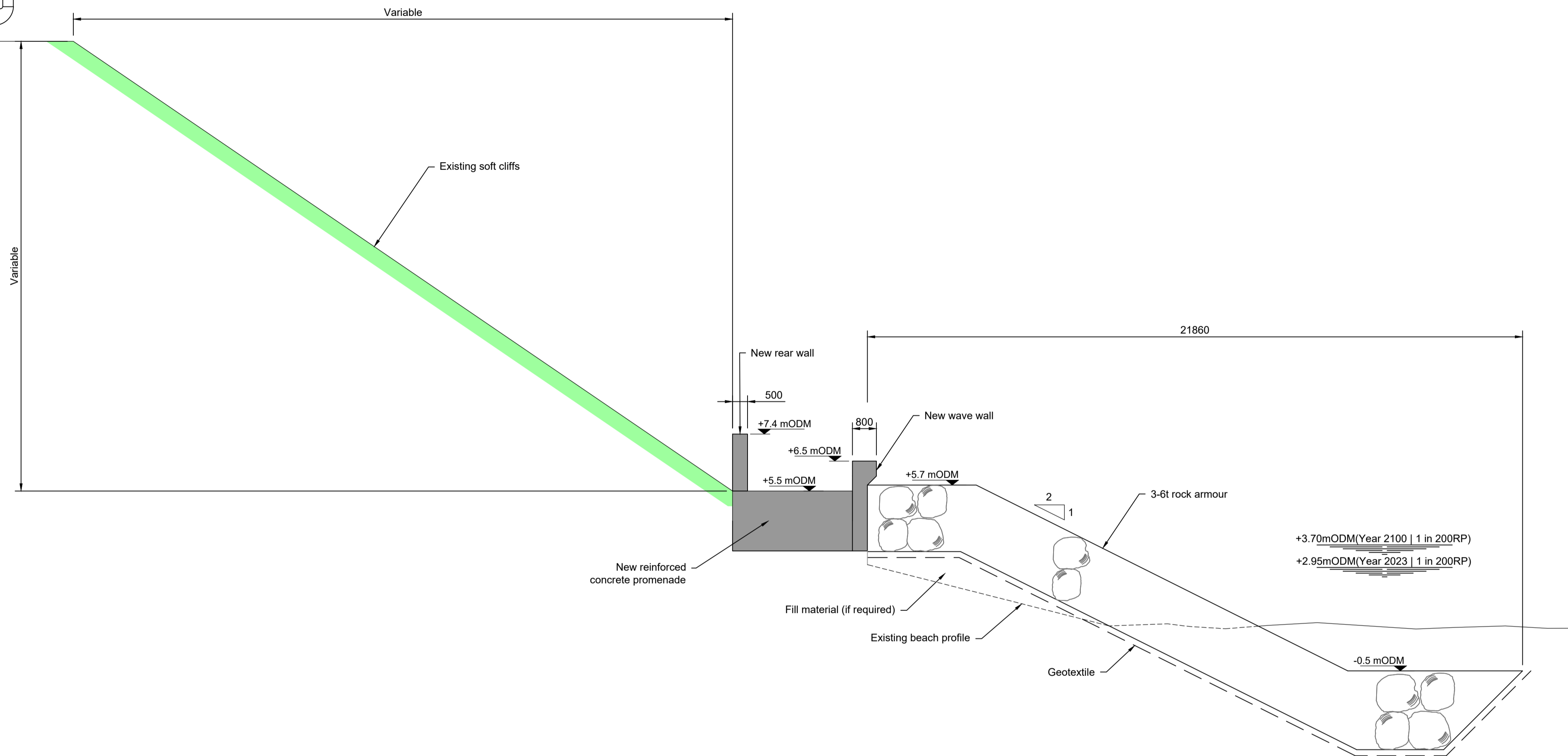
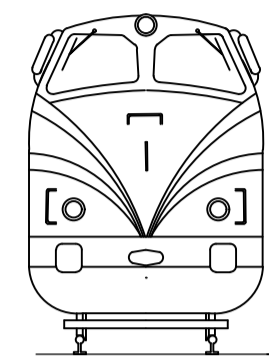
State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
7694- <b>CCA2_3</b> - <b>P2</b>			
DWG-CV	-JAC	-JAC	-0205



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CCA2-3- C2 & D1 OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT FRONTING EXISTING SOFT CLIFFS

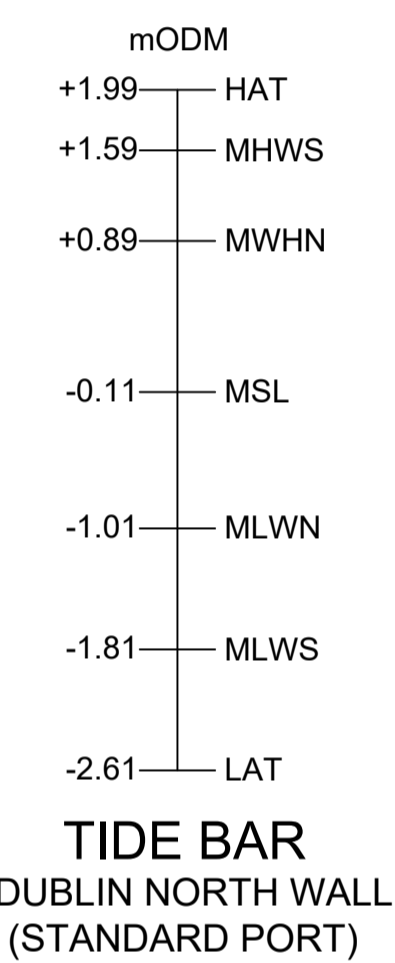
Scale 1:100

Notes:

- All levels are in mODM
- Do not scale from this drawing.
- Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
- For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0100.

Legend

- Existing Structures
- New Reinforced Concrete Wall
- Geotextile



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK

Client

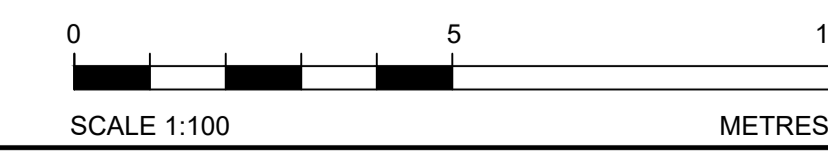
Designer:   
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

Project

Drawing title  
**CCA2/3-C2 & D1  
CROSS SECTION  
OPTION A**

Drawing status  
**Accepted**

State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694- CCA2_3	- P2	-
	Type	Discipline	Originator
	DWG- CV	- JAC	- 0201



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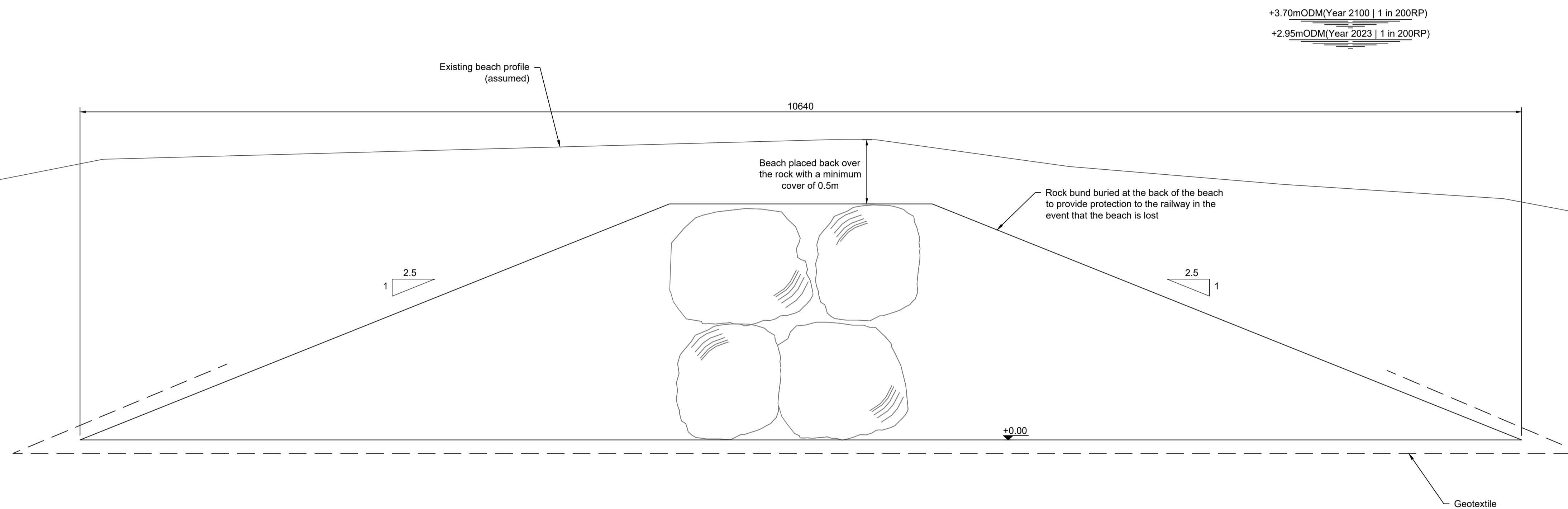
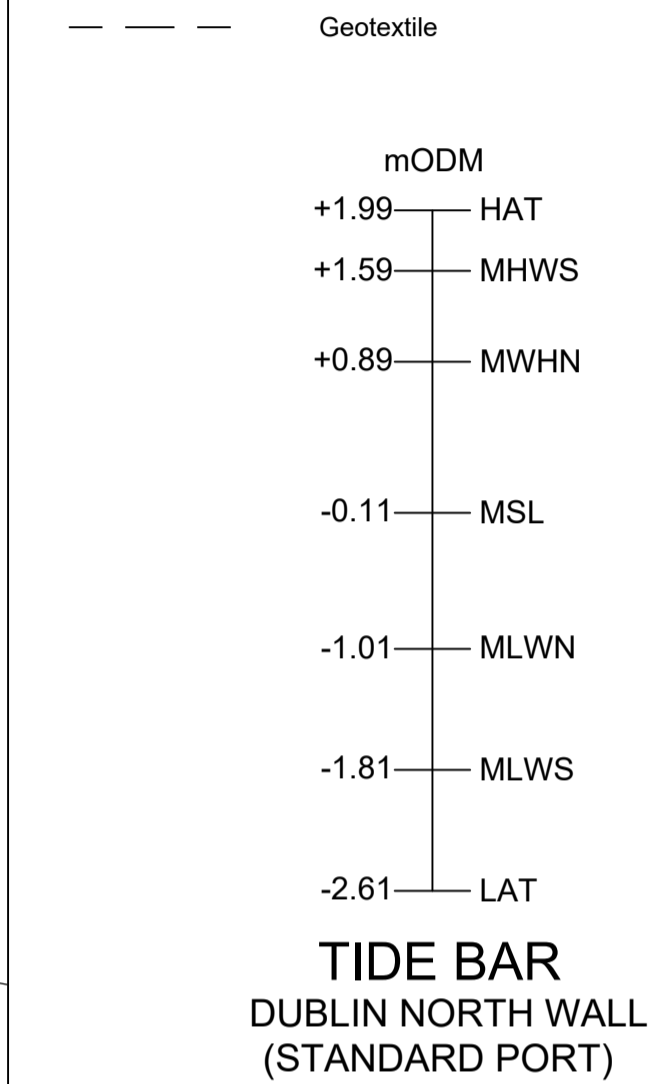
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**Notes:**

1. All levels are in mODM
2. Do not scale from this drawing.
3. Additional tide conversions are available for high and low water (spring and neap tides) at Secondary Ports of Dublin Bar, Dun Laoghaire, Greystones (high only) and Wicklow. High tides at CCA6 are typically 1.2m lower than at Dublin.
4. All levels and dimensions are approximate and to be confirmed through design development.
5. Topography data in this location is extremely limited. Levels have been estimated for the purpose of cost estimates. To be updated upon receipt of the 2023 UAV survey data.
6. For cross section locations refer to drawing 7694-CCA2\_3-P2-DWG-CV-JAC-0100, 0101 and 0102.

**Legend**



**CCA2/3 - D2 OPTION A, B & C - TYPICAL ROCK BUND CROSS SECTION**  
Scale 1:20

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	25.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	11.12.2023	Draft issue for information	AE	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Client

Designer:   
Merrion House, Merrion Rd, Dublin 4,  
Ireland, D04R2C3, Tel: +44 (0)203 9802000  
www.jacobs.com

Project

Drawing title  
**CCA2/3-D2  
CROSS SECTION  
OPTIONS A, B & C**

Drawing status: **Accepted**

State Code	Contract / Work Package 2-3		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:20	Rev	DO NOT SCALE
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
7694-	CCA2_3	-P2	-
DWG-CV	-JAC	-	-0202



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