

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

Sub-Cell	Sub-cell Name	Length (m)
CCA6.2-A	Newcastle South	3000
CCA6.2-B	Killoughter	3000
CCA6.2-C	Clonmannon	2720
CCA6.2-D	Wicklow North	260

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	30.11.2023	Draft Issue For Information	PC	JG	JUD	DK

Client

Designer:

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

Project

Drawing title

**CONCEPT DESIGN
CCA 6.2
SITE LOCATION PLAN**

Drawing status

Accepted

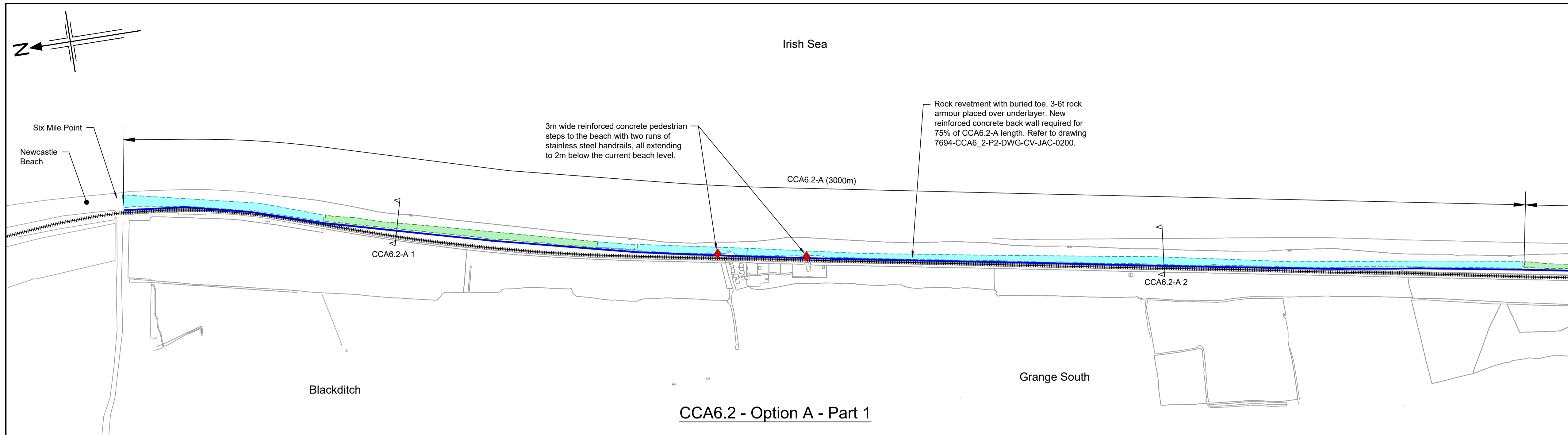
State Code	Contract / Work Package 6.2		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	Rev	DO NOT SCALE
Jacobs No.	D3658300	Rev	V01
Client no.	7694	Work Package	CCA6.2 - P2
Drawing number	7694- CCA6.2 - P2 - DWG - CV - JAC - 0001	Phase	-

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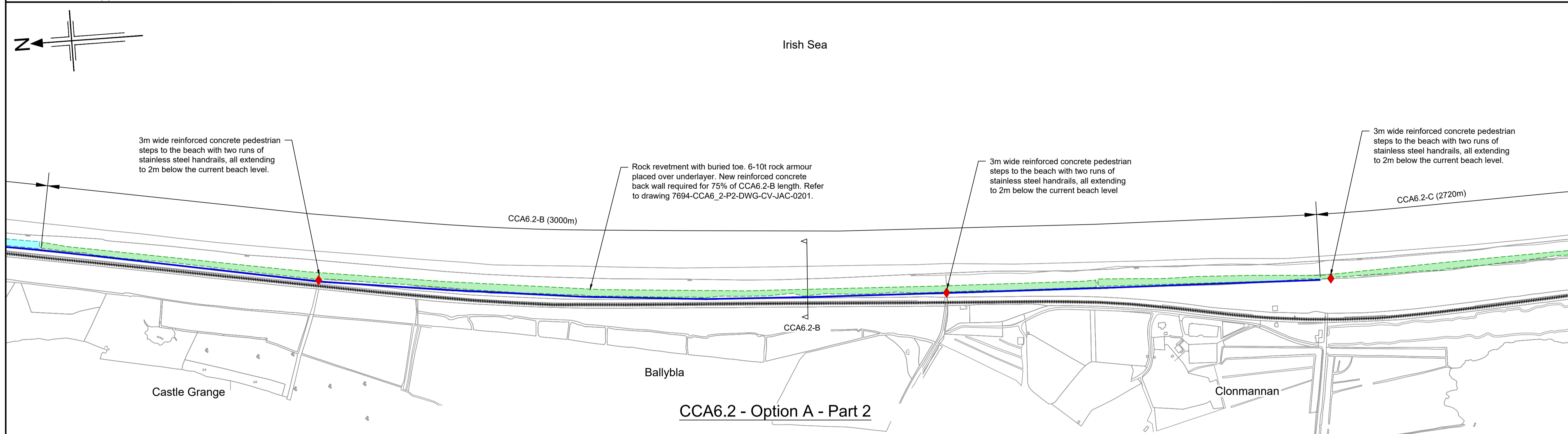
C:\pwworking\jacobs-emea-01\680147694-CCA6_2-P2-DWG-CV-JAC-0001.dwg - 29/02/2024 13:28:52 - Layout - RM059524

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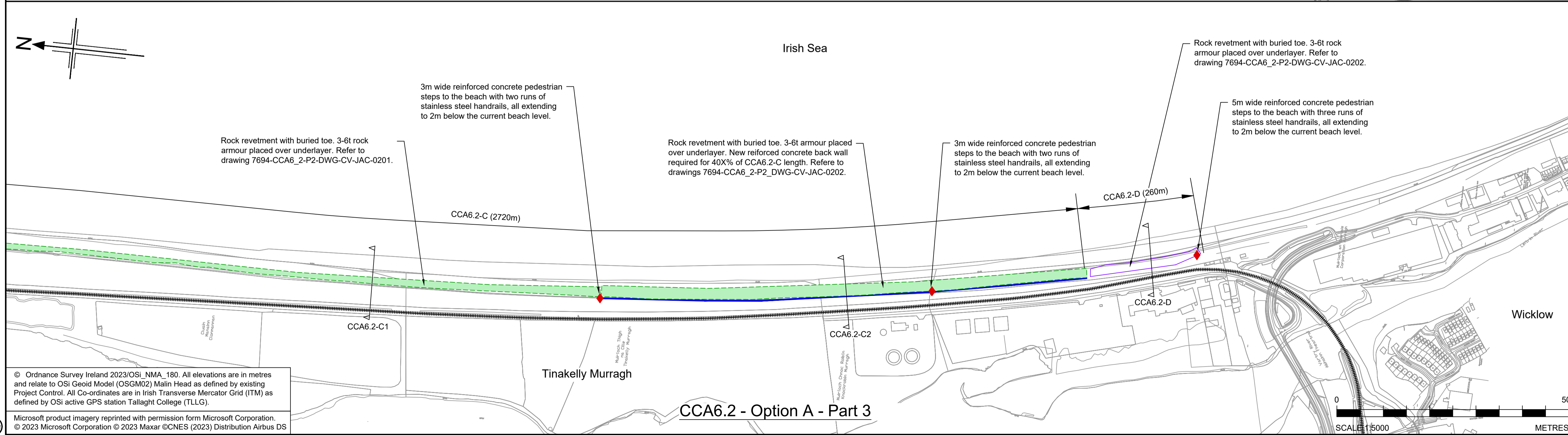
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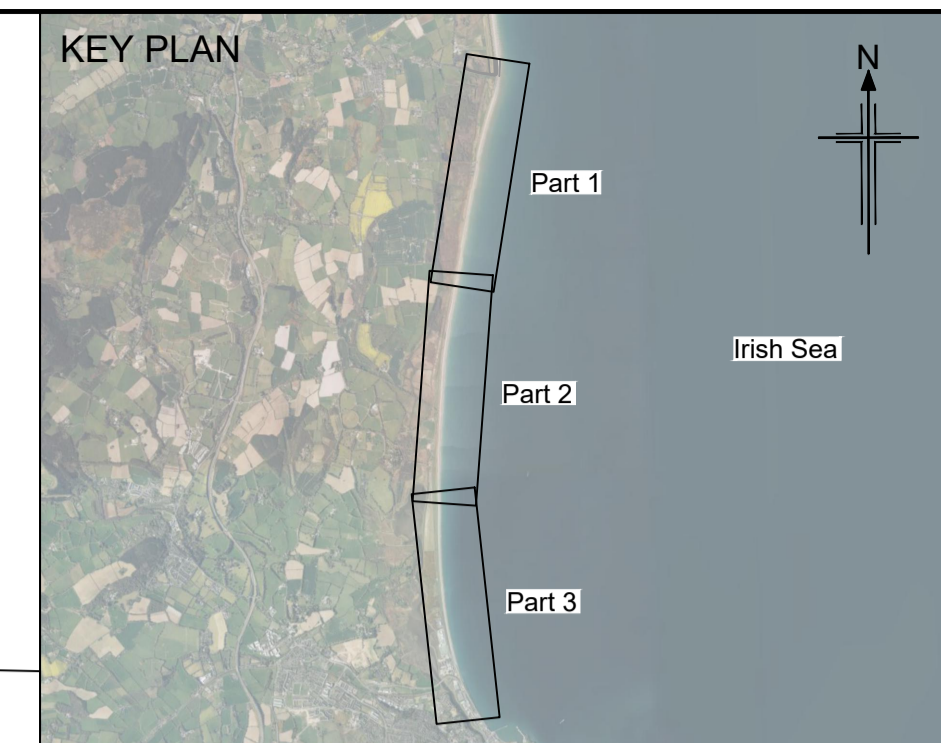
CCA6.2 - Option A - Part 1



CCA6.2 - Option A - Part 2



CCA6.2 - Option A - Part 3



- 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
- Section locations
 - Railway line
 - Proposed Works
 - Rock revetment
 - Rebuild existing revetment (reuse existing rock where possible)
 - Overlay existing revetment with new rock armour
 - Set back wall
 - Pedestrian beach access point through defences

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24.01.2024	Comments addressed	AE	JG	JUD	DK
P01.1	30.11.2023	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, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CONCEPT DESIGN CCA 6.2 OPTION A PLAN**

Drawing status: **Accepted**

State Code: Contract / Work Package 6.2

Project Stage: Project Concept, Feasibility & Option Selection

Scale: 1:5000 DO NOT SCALE

Jacobs No. D3658300 Rev V01

Client no. 7694

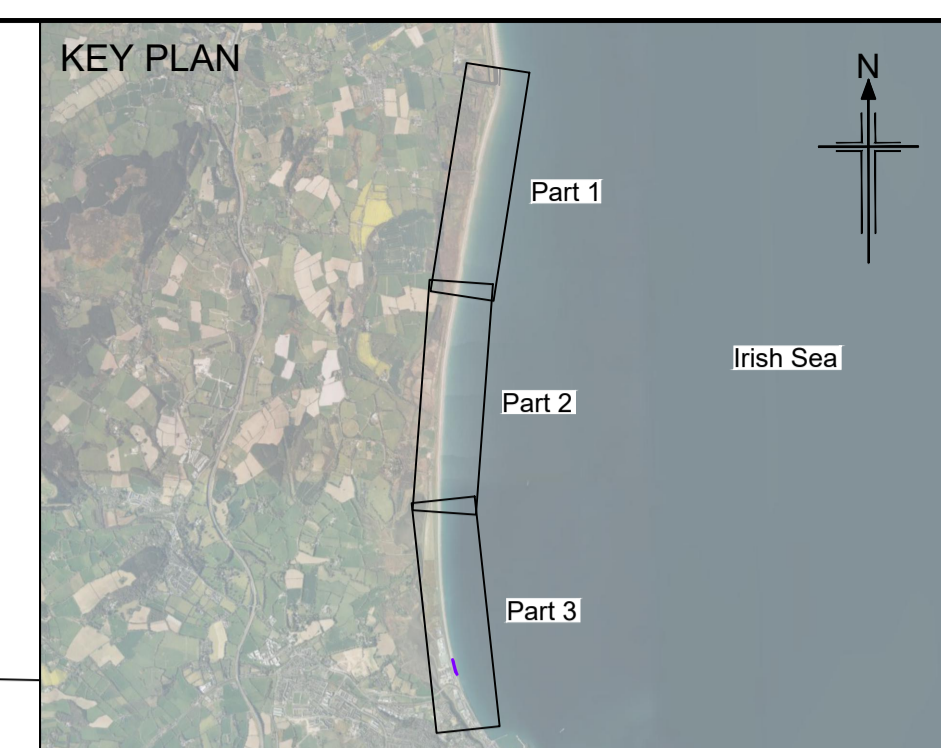
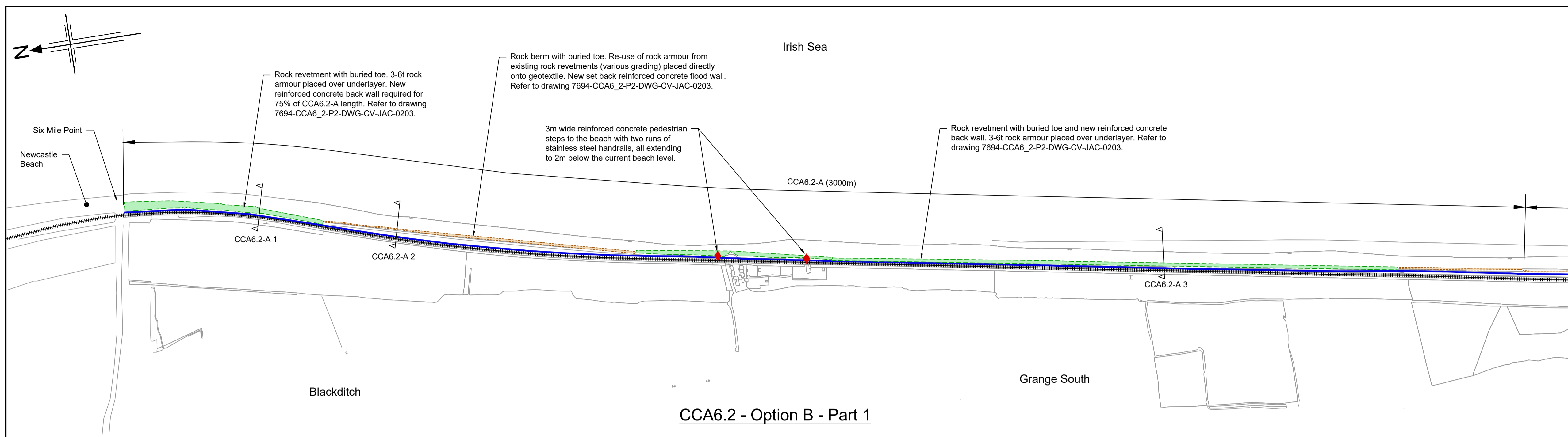
Drawing number: 7694-CCA6.2-P2 - Phase DWG - CV - JAC - 0100

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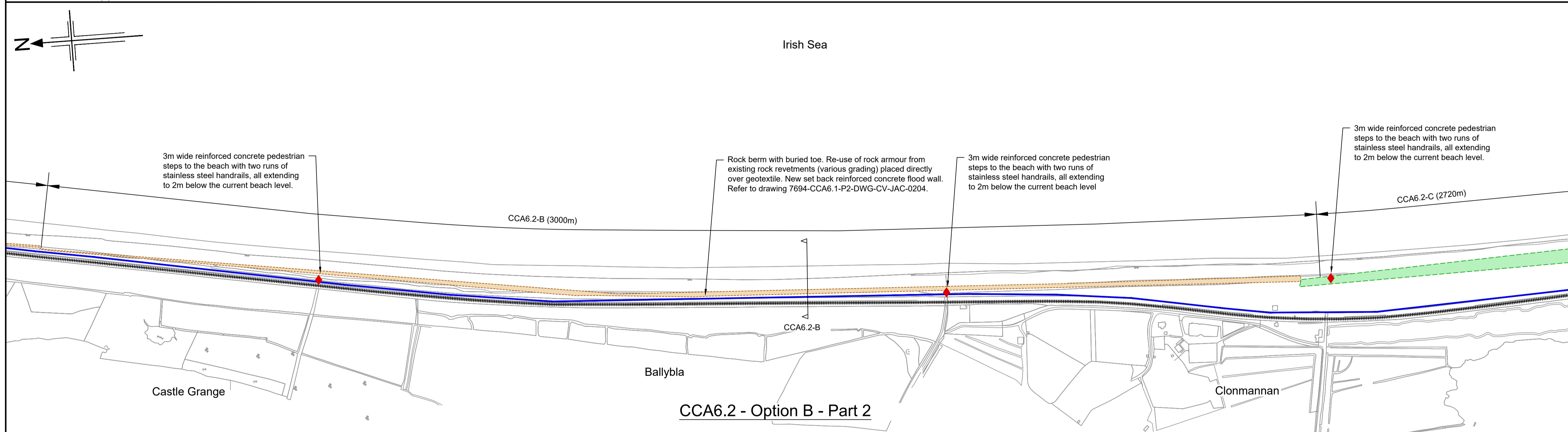
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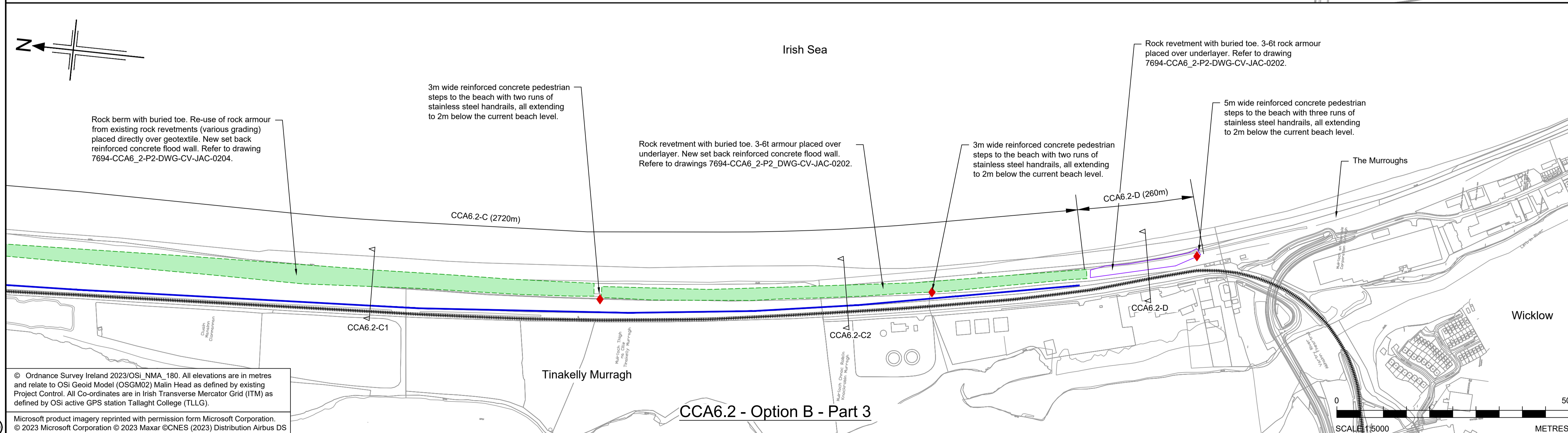


- NOTES
- All levels are in mODM.
 - Do not scale from this drawing.
 - Size and location of all structures is indicative only and to be determined through design development.
 - Option B seeks to defer works until they are needed. Deferred works will likely be required in all locations where there is not a full rock revetment. This will provide the long term standard of protection. These deferred works are proposed to be the rebuilding of all rock berms with larger rock revetments (as per Option A). The works outlined on this plan comprise the initial capital works only. The deferred works are omitted from this drawing for clarity.



- LEGEND
- Section locations
 - Railway line
 - Proposed Works
 - Rock revetment
 - Rock berm
 - Overlay existing revetment with new rock armour
 - Set back wall
 - Pedestrian beach access point through defences

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
B	24.01.2024	Comments addressed	PC	JG	JUD	DK
P01.1	30.11.2023	Draft Issue For Information	PC	JG	JUD	DK
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Approved



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**

Drawing title: **CONCEPT DESIGN CCA 6.2 OPTION B PLAN**

Drawing status: **Accepted**

State Code: **Contract / Work Package 6.2**

Project Stage: **Project Concept, Feasibility & Option Selection**

Scale: **1:5000** **DO NOT SCALE**

Jacobs No.: **D3658300** Rev: **V01**

Client no.: **7694**

Drawing number: **7694- CCA6_2 - P2 - DWG - CV - JAC - 0101**

Project No: **7694** | Work Package: **CCA6_2** | Phase: **P2**

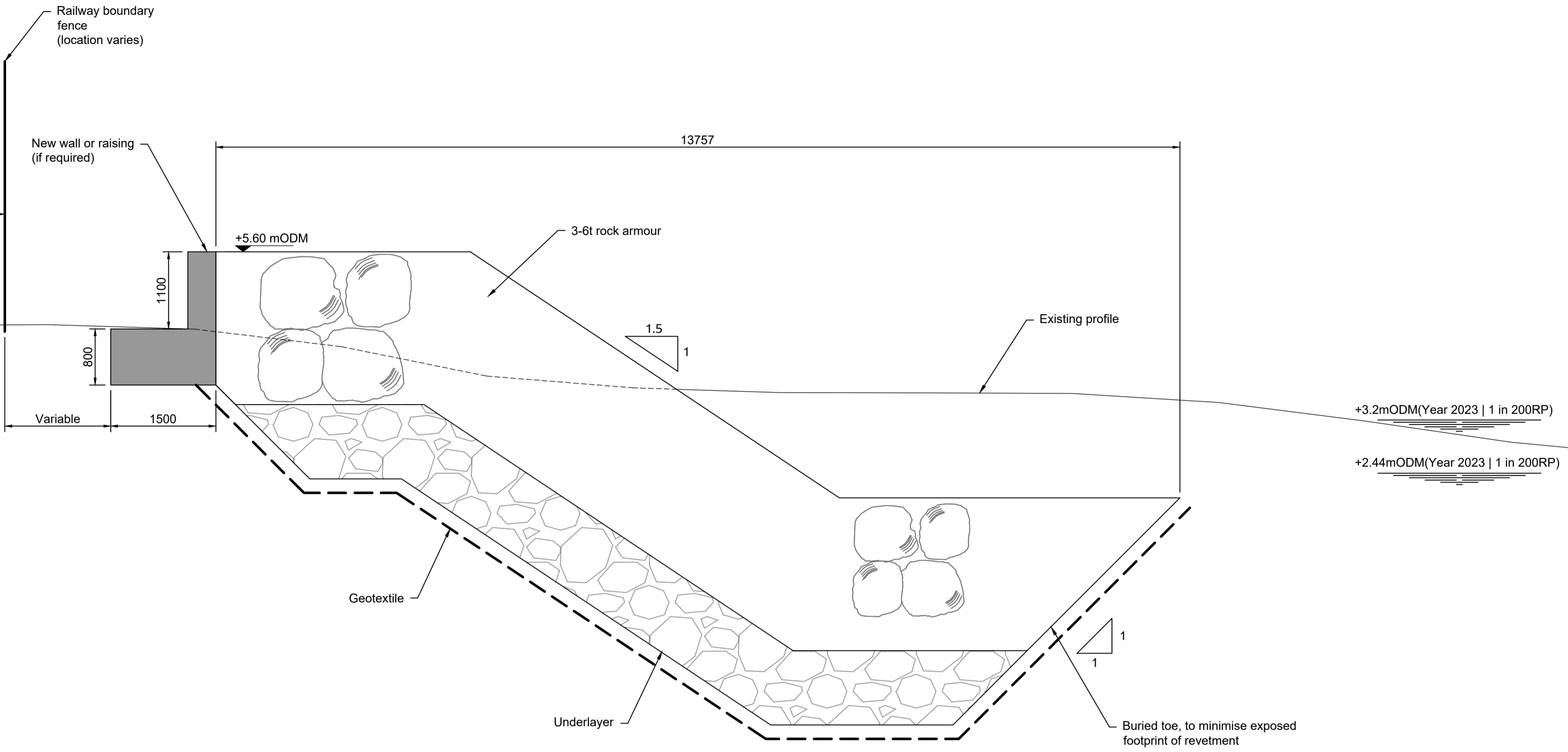
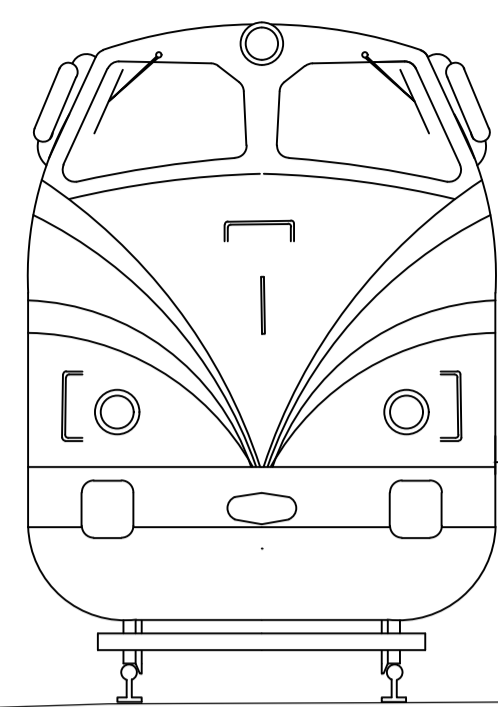
Type: **DWG - CV** | Discipline: **JAC** | Originator: **JAC** | Number: **0101**

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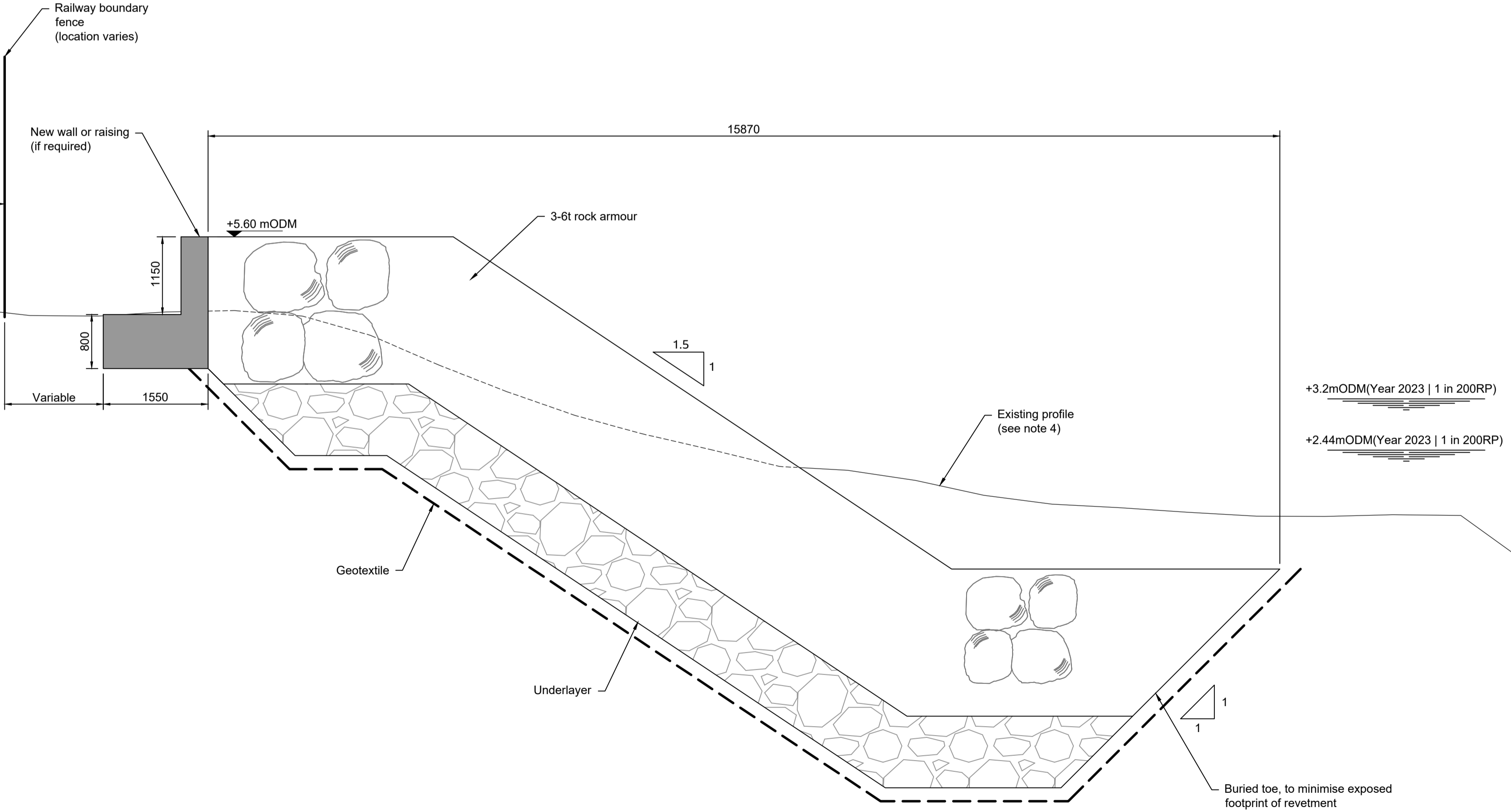
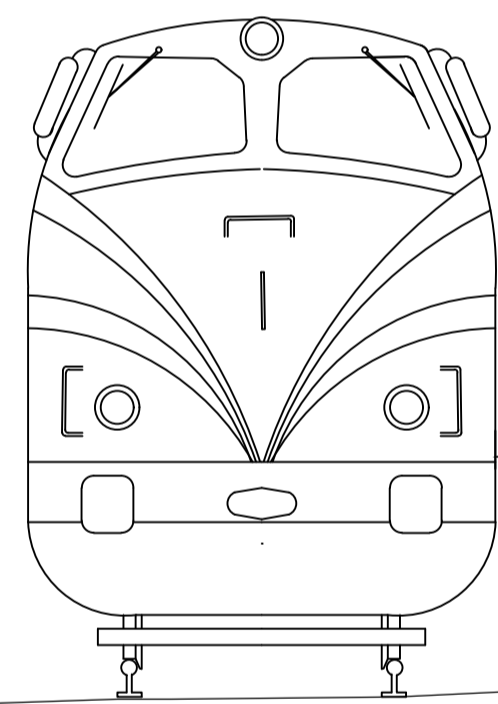
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CCA6.2-A1 OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT
Scale 1:50



CCA6.2-A2 OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT
Scale 1:50

- 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.
 - Existing profile is approximate and includes existing rock revetment. Existing rock revetment to be removed and where possible rock reused within the new works.
 - All levels and dimensions are approximate and to be confirmed through design development.
 - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective, a steel sheet pile may be considered as an alternative to the concrete crown wall and the toe detail could be revised (raised).
 - For cross section locations refer to drawing 7694-CCA6_2-P2-DWG-CV-JAC-0100.

Legend

- 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	24-01-2024	Comments addressed	AE	JG	JUD	DK
A.1	30-11-2023	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
**CCA6.2-A
CROSS SECTIONS
OPTION A**

Drawing status **Accepted**

State Code	Contract / Work Package 6.2		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

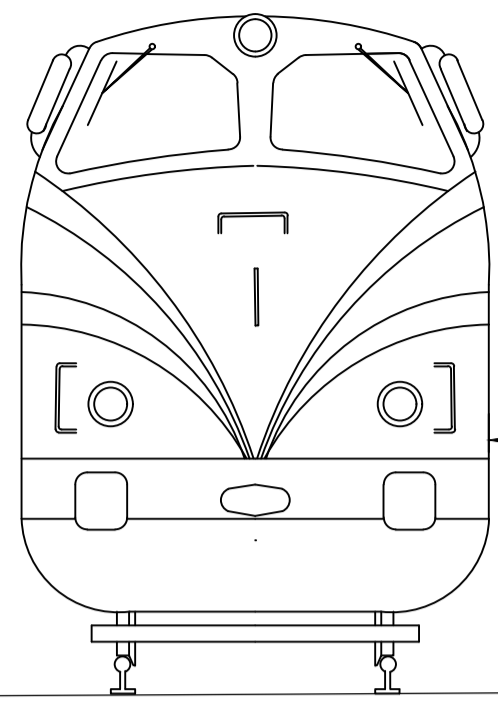
Drawing number **7694- CCA6_2 -P2 -**
Type **DWG - CV** | Discipline **JAC** | Originator **JAC** | Number **0200**



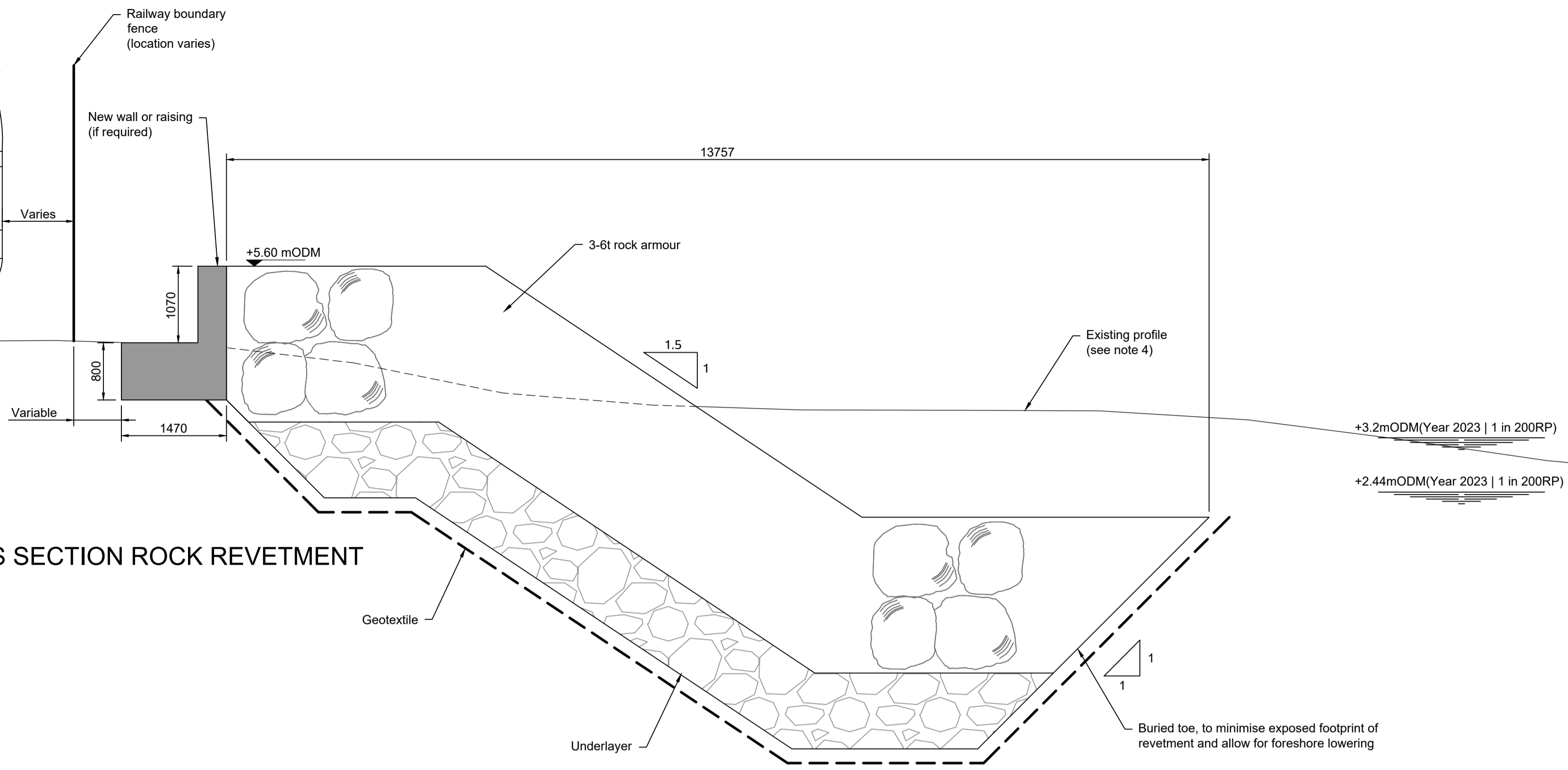
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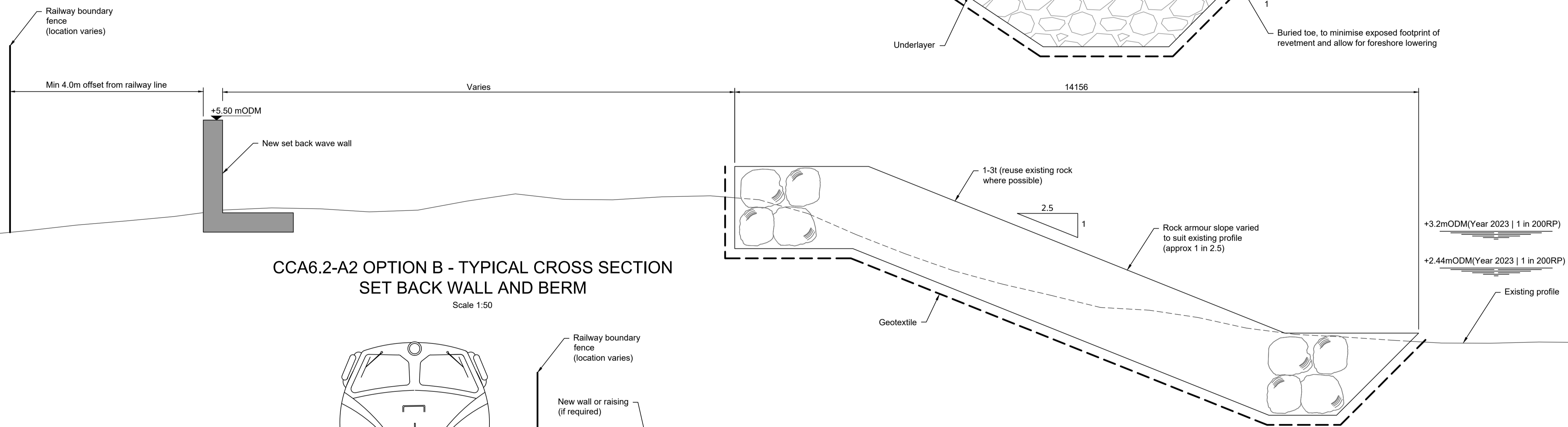
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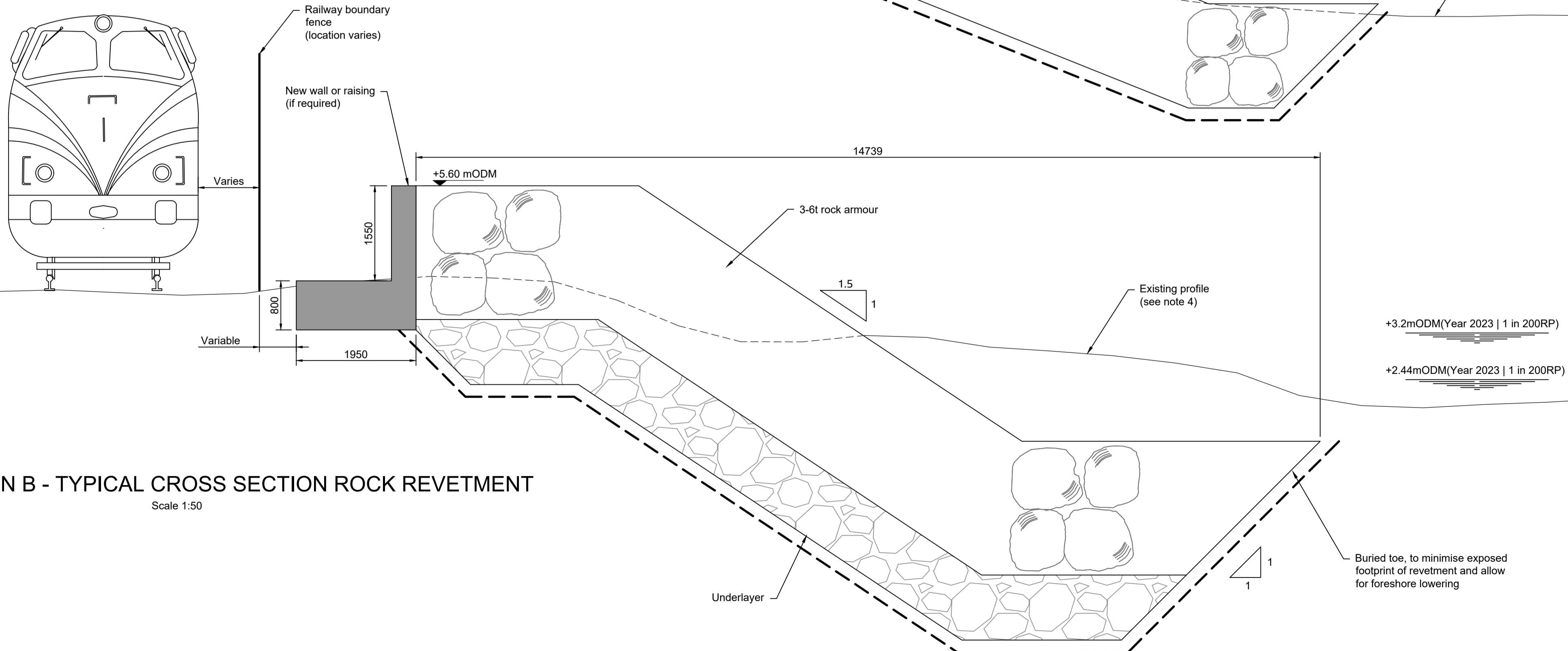
CCA6.2-A1 OPTION B - TYPICAL CROSS SECTION ROCK REVETMENT
Scale 1:50



CCA6.2-A2 OPTION B - TYPICAL CROSS SECTION SET BACK WALL AND BERM
Scale 1:50



CCA6.2-A3 OPTION B - TYPICAL CROSS SECTION ROCK REVETMENT
Scale 1:50



- Notes:**
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 - Existing profile is approximate and includes existing rock revetment. Existing rock revetment to be removed and where possible rock reused within the new works.
 - All levels and dimensions are approximate and to be confirmed through design development.
 - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective, a steel sheet pile may be considered as an alternative to the concrete crown wall and the toe detail could be revised (raised).
 - For cross section locations refer to drawing 7694-CCA6_2-P2-DWG-CV-JAC-0101.

Legend

- New Reinforced Concrete Wall
- Geotextile

TIDE BAR DUBLIN NORTH WALL (STANDARD PORT)

mODM

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

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29-02-2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
P01.1	17-11-2023	Draft issue for information	AE	JG	JUD	DK

Client: **lanród Éireann Irish Rail**

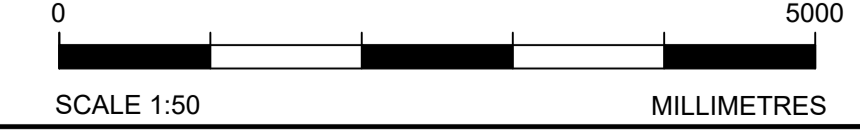
Designer: **Jacobs**
Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**

Drawing title: **CCA6.2 A CROSS SECTIONS OPTION B**

Drawing status: **Accepted**

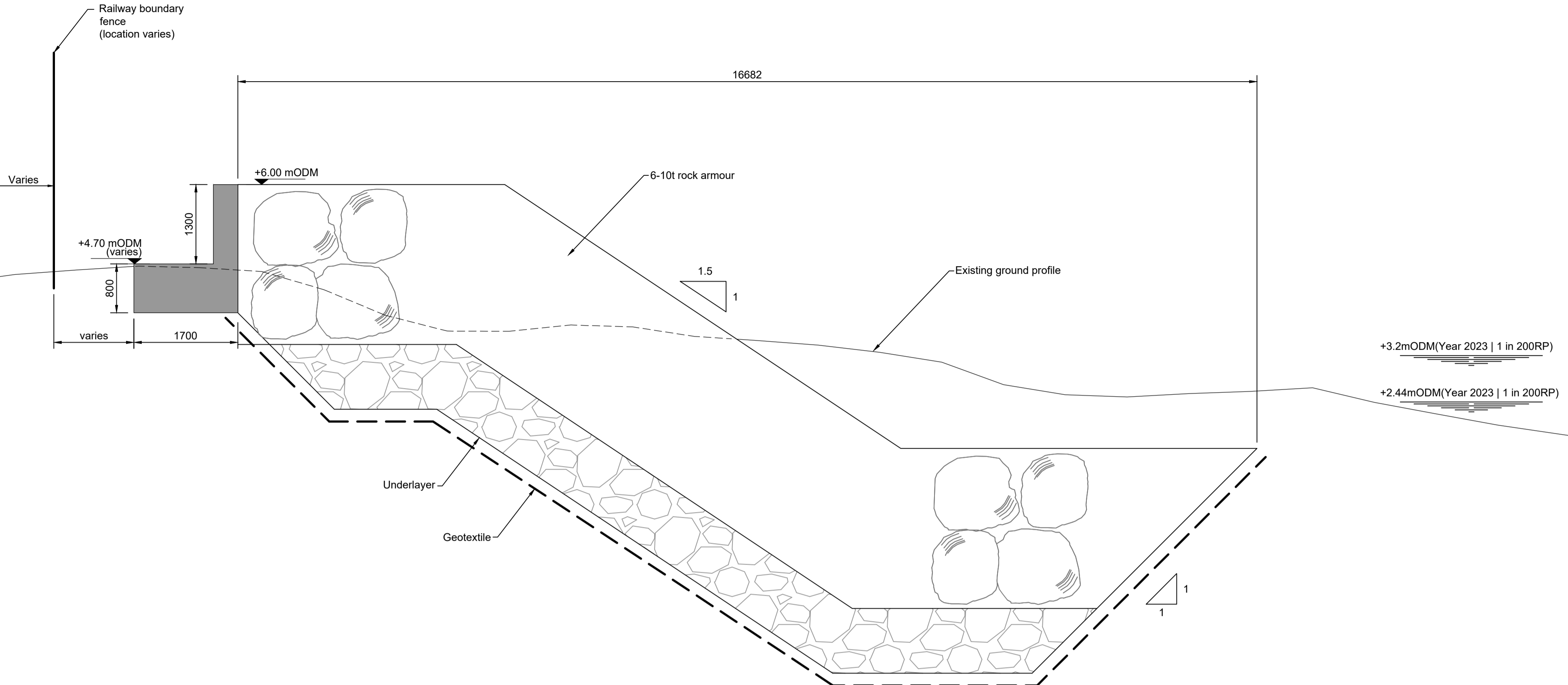
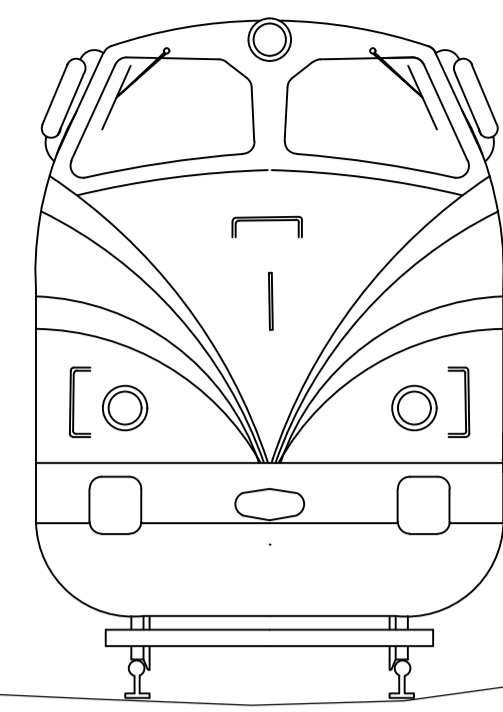
State Code	Contract / Work Package 6.2		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	7694- CCA6_2 -P2 -	Work Package	Phase
Type	DWG - CV	Discipline	JAC
Originator	JAC	Number	0203



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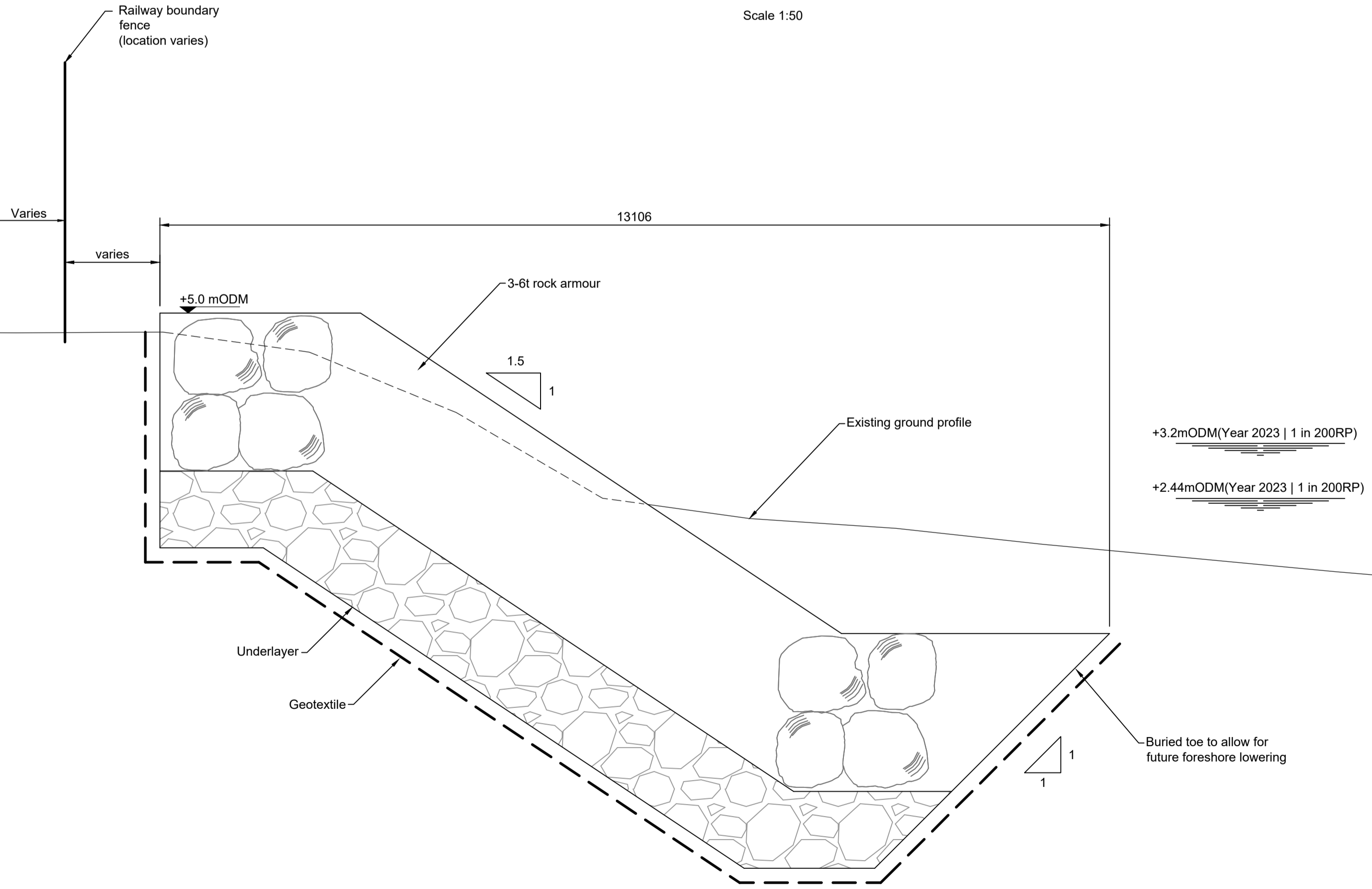
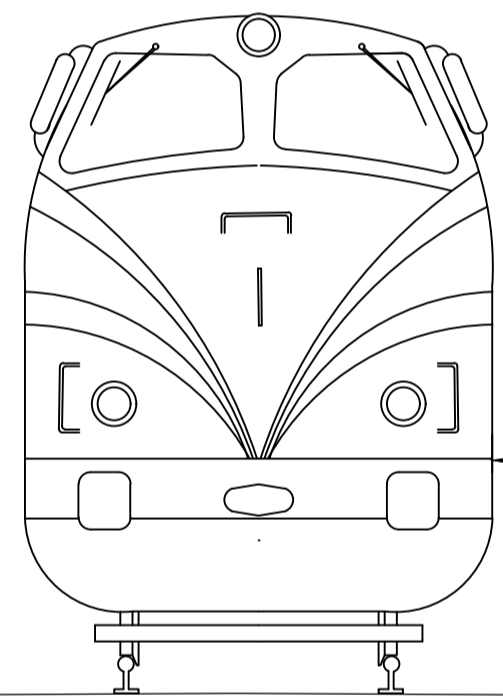
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CCA6.2-B OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT

Scale 1:50



CCA6.2-C1 OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT

Scale 1:50

- Notes:**
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 - For cross section locations refer to drawing 7694-CCA6_2-P2-DWG-CV-JAC-0100.

Legend

- New Reinforced Concrete Wall
- Geotextile

TIDE BAR DUBLIN NORTH WALL (STANDARD PORT)

mODM

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

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
V01	29-02-2024	Client Accepted	AE	RM	JG	DK
B	24-01-2024	Comments addressed	AE	JG	JUD	DK
A.1	30-11-2023	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

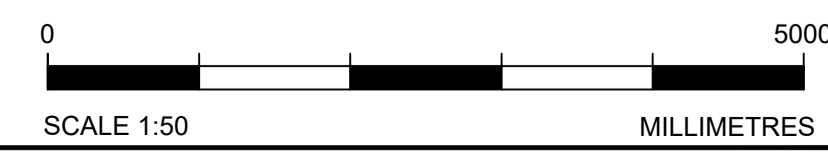
Project: **ECRIPP**

Drawing title: **CCA6.2-B AND C CROSS SECTIONS OPTION A**

Drawing status: **Accepted**

State Code	Contract / Work Package 6.2		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		

Drawing number	7694- CCA6_2 -P2 -	Work Package		Phase	
Type	DWG - CV	Discipline	JAC	Originator	Number
					0201

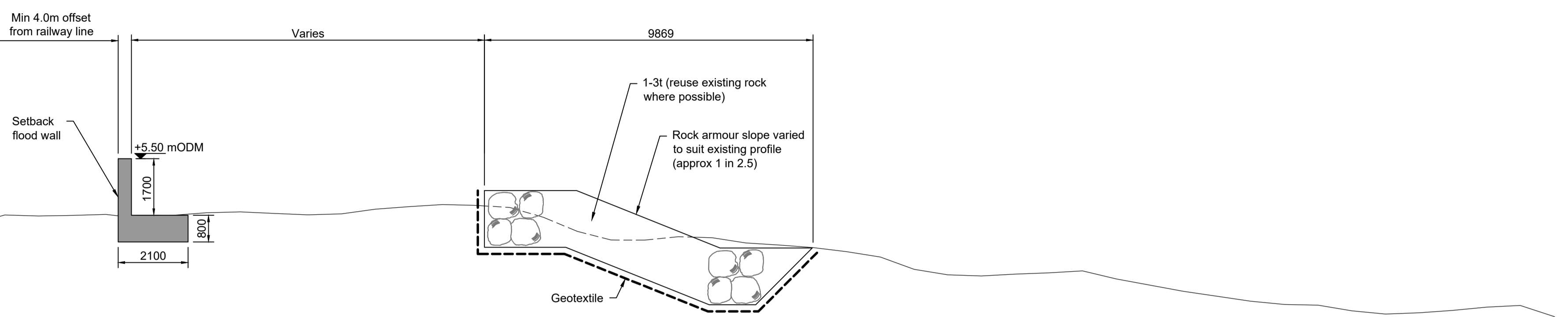


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CCA6.2-B OPTION B - TYPICAL CROSS SECTION ROCK BERM AND SETBACK FLOODWALL
Scale 1:100



CCA6.2-C1 OPTION B - TYPICAL CROSS SECTION ROCK BERM AND SETBACK FLOODWALL
Scale 1:100

Notes:

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- For cross section locations refer to drawing 7694-CCA6_2-P2-DWG-CV-JAC-0001.

Legend

- 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	24-01-2024	Comments addressed	AE	JG	JUD	DK
P01.1	17-11-2023	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

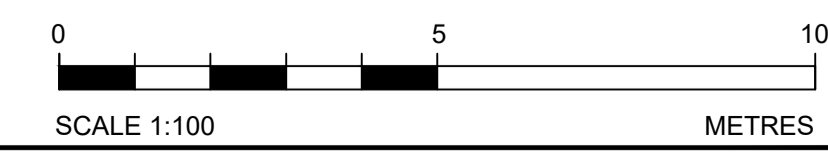
Project

Drawing title
**CCA6.2 B AND C
CROSS SECTIONS
OPTION B**

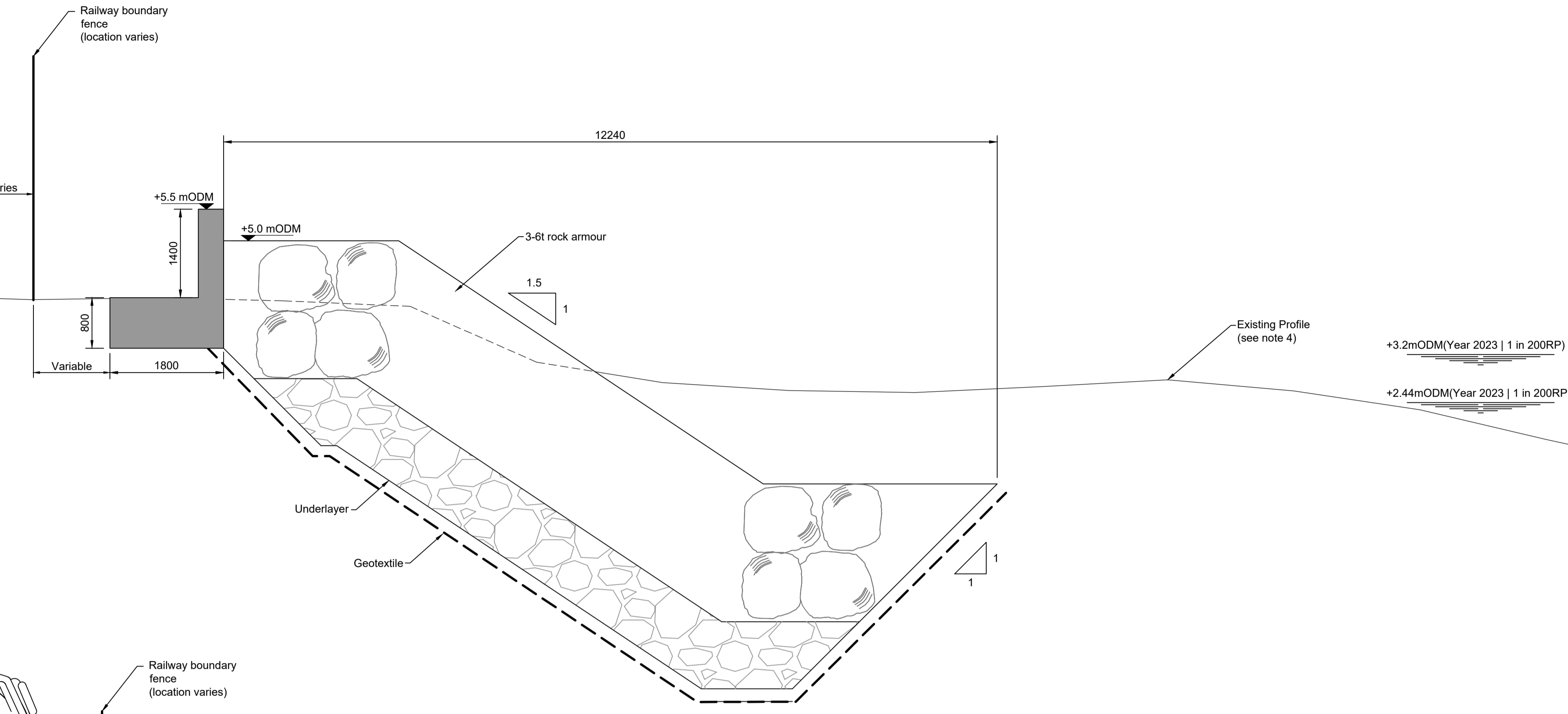
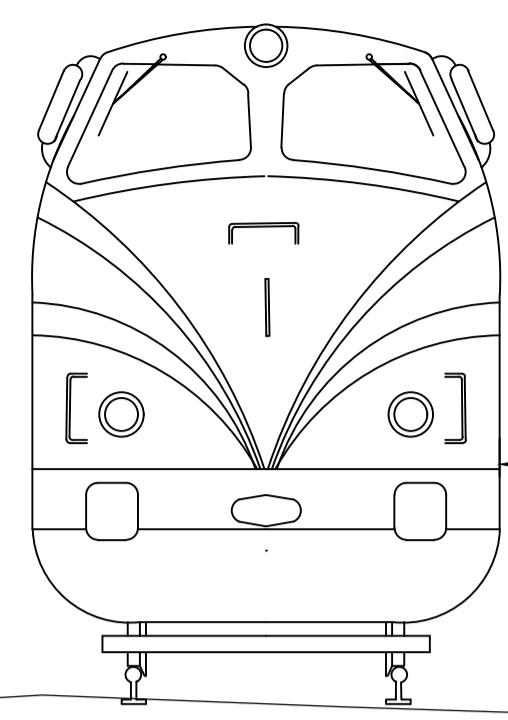
Drawing status
Accepted

State Code	Contract / Work Package 6.2		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:100	Rev	DO NOT SCALE
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
7694- DWG - CV	CCA6_2	- P2	-
JAC	JAC	JAC	0204

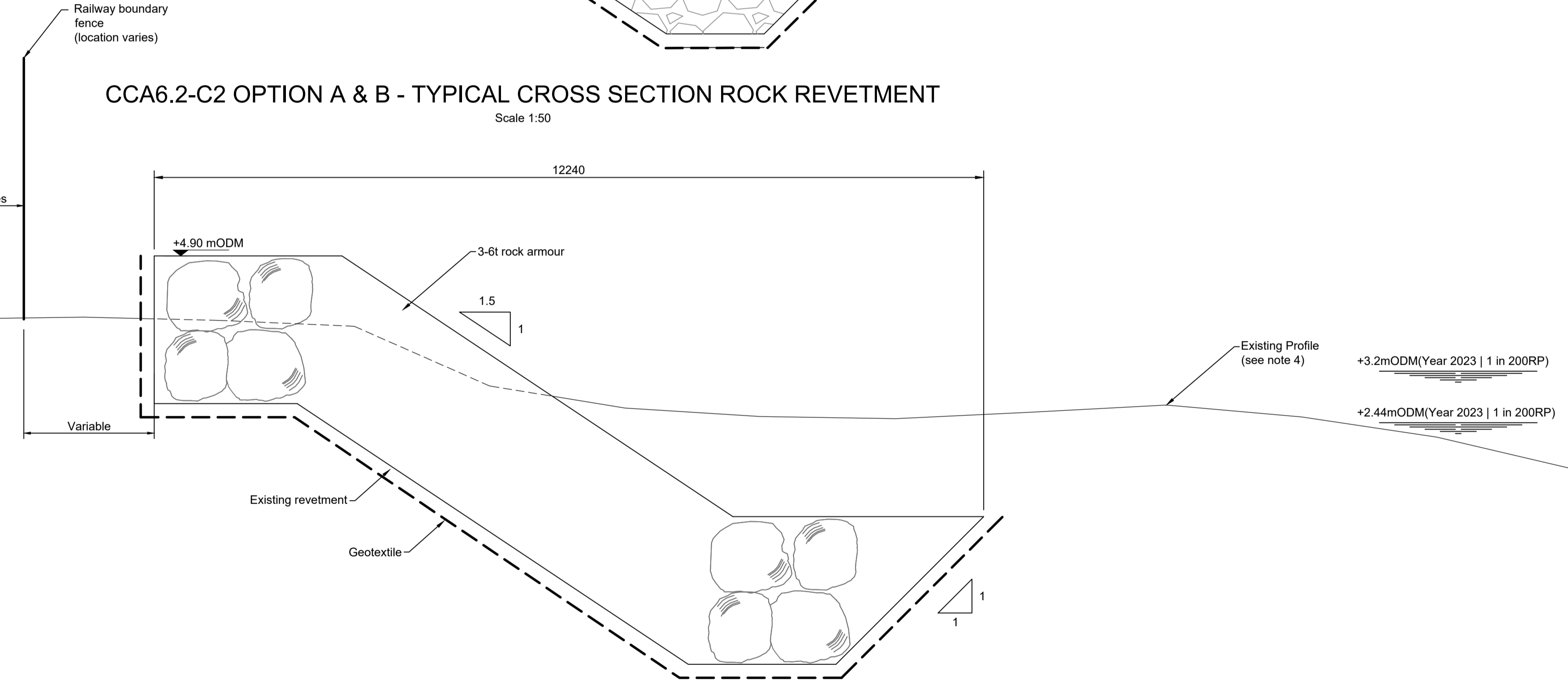
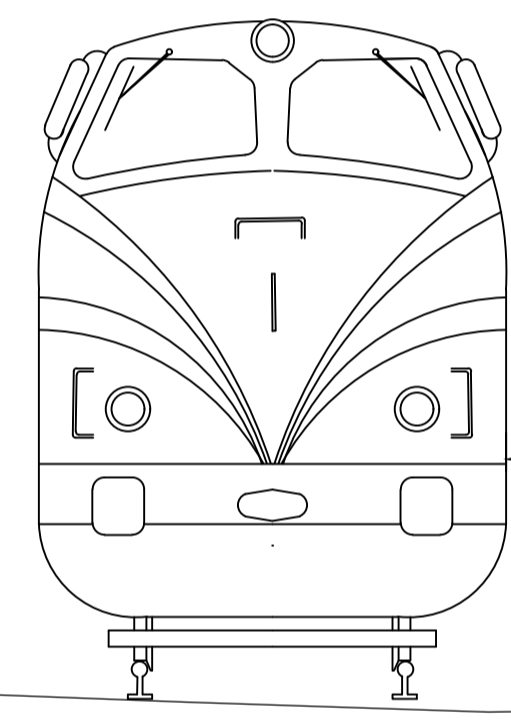
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CCA6.2-C2 OPTION A & B - TYPICAL CROSS SECTION ROCK REVETMENT
Scale 1:50



CCA6.2-D OPTION A & B - TYPICAL CROSS SECTION OVER LAYING EXISTING REVETMENT
Scale 1:50

- 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.
 - Existing profile is approximate and includes existing rock revetment. Existing rock revetment to be removed and where possible rock reused within the new works.
 - All levels and dimensions are approximate and to be confirmed through design development.
 - Designs will be updated on completion of the 2023 UAV survey as the topography and existing structure profiles are currently taken from OPW Lidar, 2011 which we do not believe is fully representative of the existing shoreline profile through this CCA. It is intended to limit the excavation at the shoreline for construction of the revetment. Therefore, should the updated survey data indicate that the excavation depths shown will be problematic from a construction perspective, a steel sheet pile may be considered as an alternative to the concrete crown wall and the toe detail could be revised (raised).
 - For cross section locations refer to drawing 7694-CCA6_2-P2-DWG-CV-JAC-0100 and 0101.

Legend

- 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	24-01-2024	Comments addressed	AE	JG	JUD	DK
A.1	30-11-2023	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
**CCA6.2-C & D
CROSS SECTIONS
OPTIONS A & B**

Drawing status: **Accepted**

State Code	Contract / Work Package 6.2		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	Rev	DO NOT SCALE
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	7694- CCA6_2 -P2 -	Work Package	Phase
Type	DWG - CV	Discipline	JAC
		Originator	JAC
		Number	0202

C:\pwworking\jacobs-emea-01\680147694-CCA6_2-P2-DWG-CV-JAC-0202.dwg - 29/02/2024 13:34:52 - CCA6_1_0202 - RM059324

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