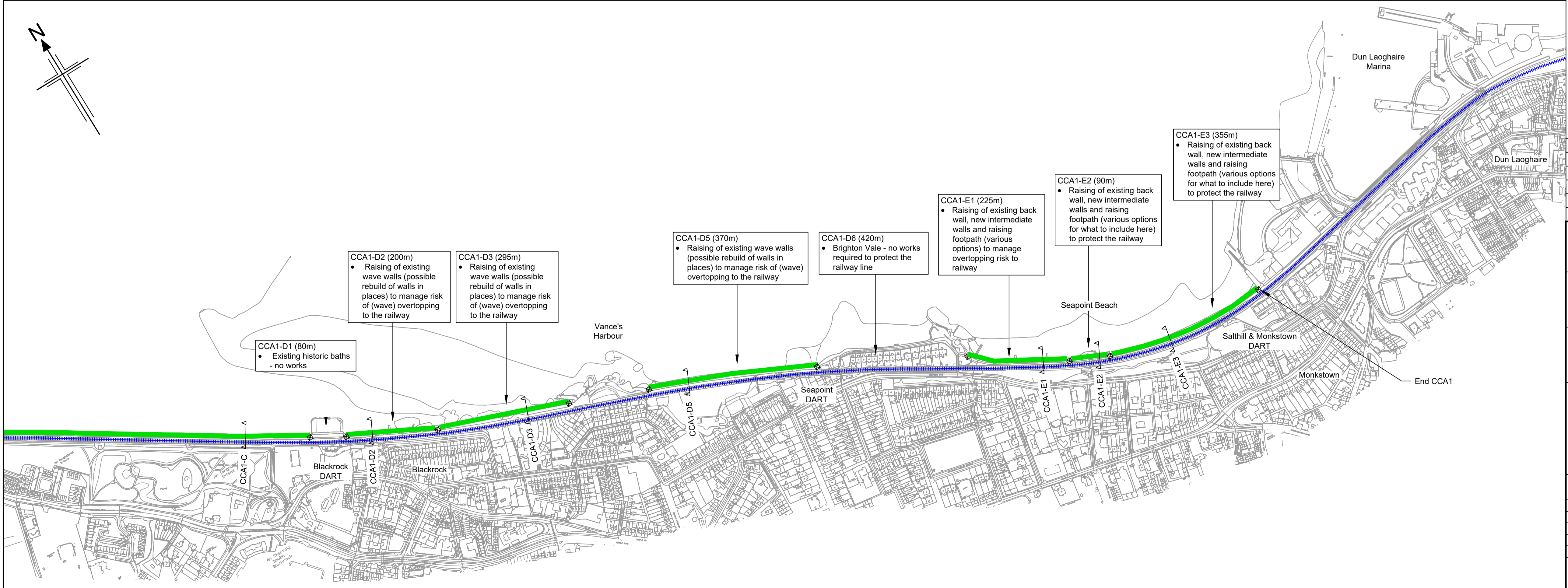
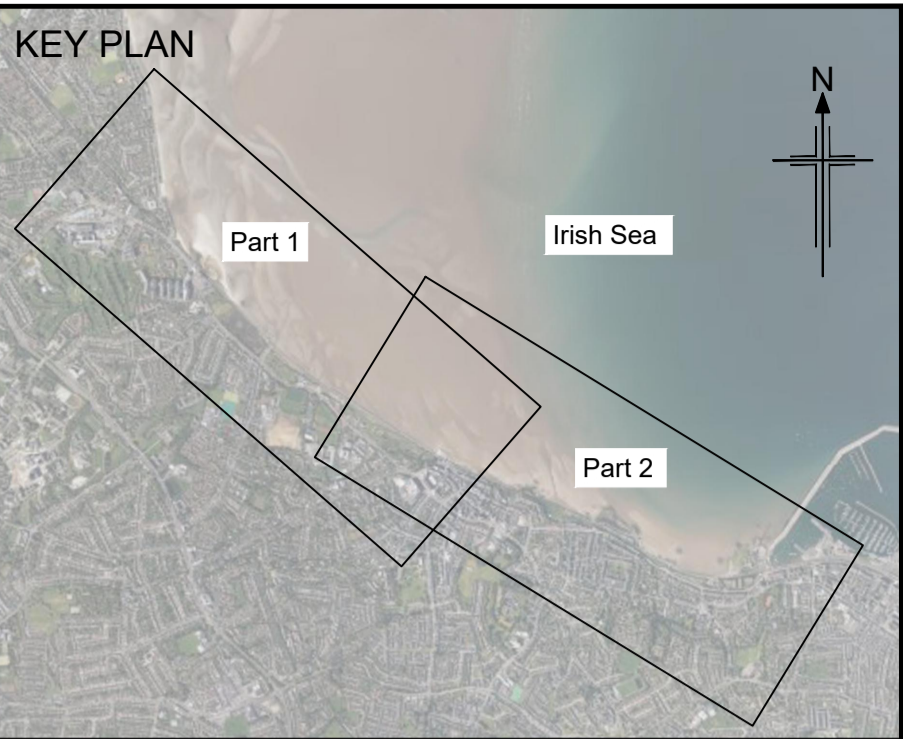


CCA1 - PLAN - PART 1
Scale 1:5000



CCA1 - PLAN - PART 2
Scale 1:5000



- NOTES**
1. Do not scale from this drawing.
 2. Size and location of all structures is indicative only and to be determined through design development.

- LEGEND**
- Railway line
 - Section marker
 - Start and end of CCA sub-cells
 - Extent of proposed works under scheme

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
A	08/10/2024	For client comment	DT	JS	JD	DK

Client: Iarnród 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: **CCA1 CONCEPT DESIGN PLAN**

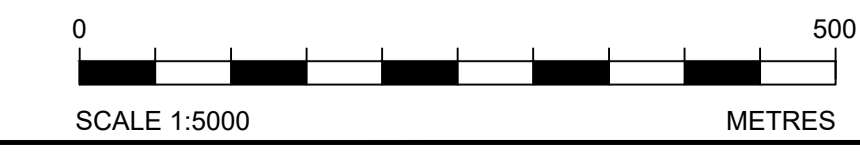
Drawing status: **For review and comment**

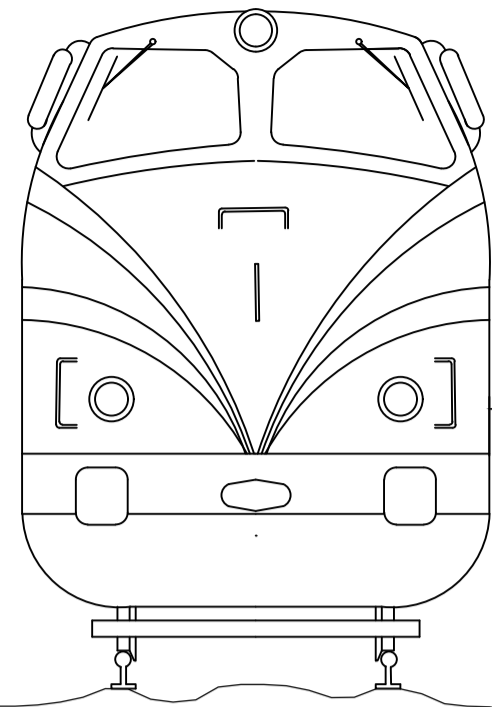
State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	A
Client no.	7694		
Drawing number	Project No	Work Package	Phase
	7694- CCA1	- P2	-
	Type	Discipline	Originator
	DWG- CV	- JAC	- 0400

© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of, Jacobs' Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.

C:\pwworking\jacobs-emea-01\1890147694-CCA1-P2-DWG-CV-JAC-0400.dwg - 08/10/2024 10:48:05 - A1Frame - TALBOTDK

Reproduced by permission of Ordnance Survey Ireland/Government of Ireland. All rights reserved. © Ordnance Survey license number CYAL50298398.





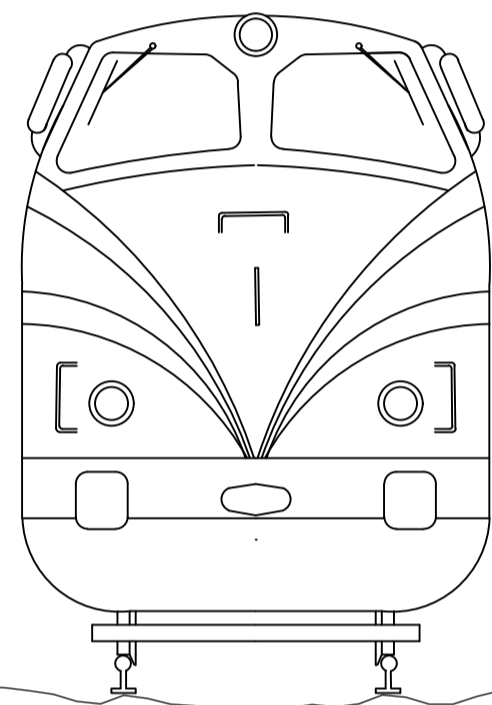
Variable
+4.1mODM
+5.1mODM
Wall to be raised by approximately 1.0m (existing wall height varies along frontage)

+3.50mODM (Year 2075 | 1 in 200RP)
+3.00mODM (Year 2025 | 1 in 200RP)

Existing profile

CCA1-A - TYPICAL CROSS SECTION

Scale 1:50



+5.2mODM
+4.2mODM
Existing masonry upstand wall to be raised using reinforced concrete dowelled into the existing cope. Raising height varies and some sections of existing upstand wall to be re-built

+3.50mODM (Year 2075 | 1 in 200RP)
+3.00mODM (Year 2025 | 1 in 200RP)

Existing defence

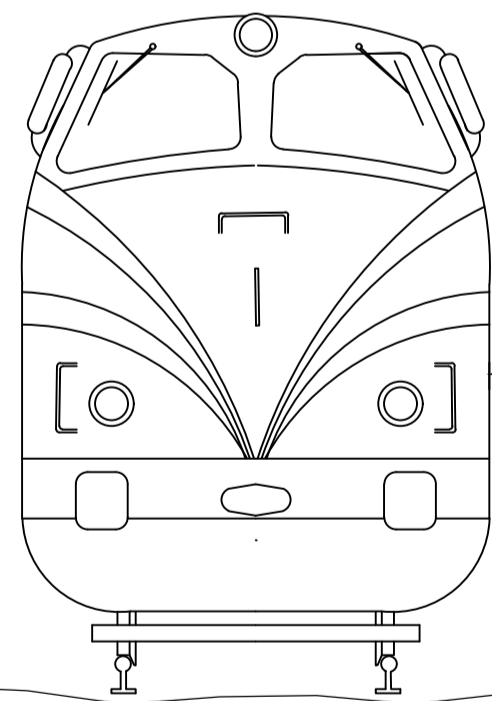
Toe of existing revetment unknown

Existing profile

Estimated existing profile of sand spit

CCA1-B - TYPICAL CROSS SECTION

Scale 1:50



Variable
+5.7mODM
+4.7mODM

+3.50mODM (Year 2075 | 1 in 200RP)
+3.00mODM (Year 2025 | 1 in 200RP)

Existing masonry upstand wall to be raised using reinforced concrete dowelled into the existing cope. Raising height varies

Existing revetment

Toe of existing revetment unknown

Existing profile

CCA1-C - TYPICAL CROSS SECTION

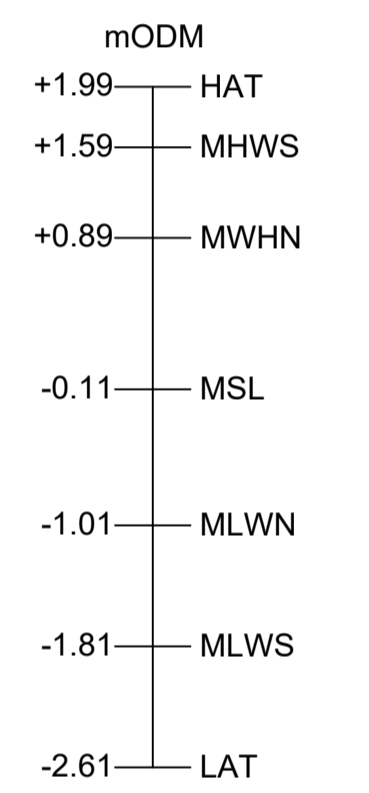
Scale 1:50

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 structure details are approximate only.
- Assumes wall raising of up to 1.0m can be placed on existing wall alignment. TBC following ground investigations.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-400

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising



TIDE BAR
DUBLIN NORTH WALL
(STANDARD PORT)

A	08/10/2024	For client comment	DT	JS	JD	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 9802000 www.jacobs.com

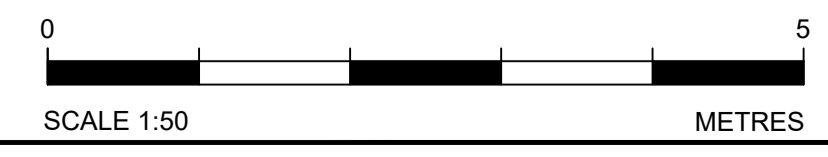
Project

Drawing title
**CCA1-A, CCA1-B & CCA1-C
CONCEPT DESIGN
CROSS SECTIONS**

Drawing status: **For review and comment**

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

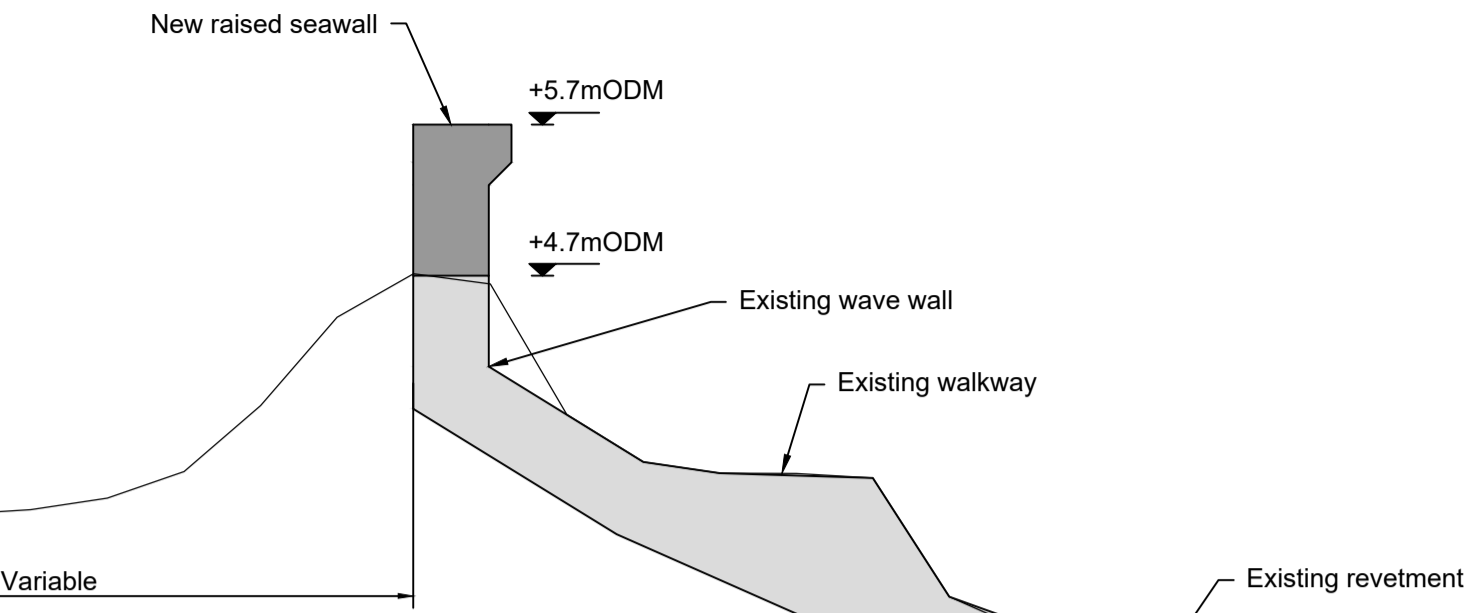
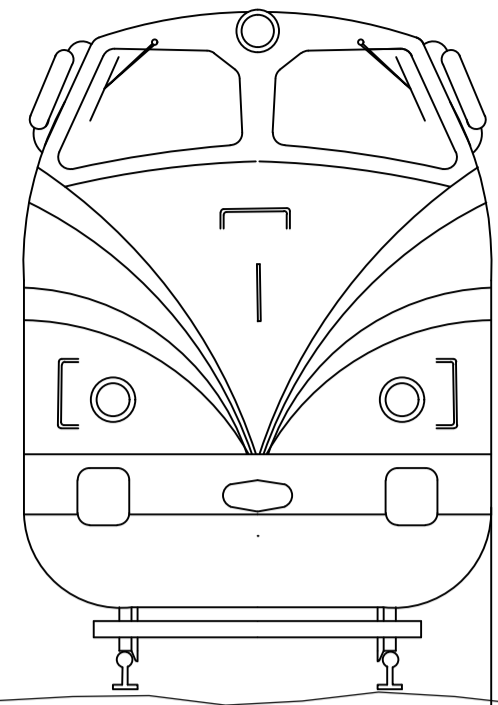
Drawing number	Project No	Work Package	Phase
7694- CCA1 - P2 -	7694	CCA1	P2
DWG - CV - JAC - 0410	Type	Discipline	Originator
	DWG	CV	JAC



C:\pwworking\jacobs-emea-01\1890147694-CCA1-P2-DWG-CV-JAC-0410.dwg - 08/10/2024 10:56:12 - A1Frame - TALBOTDK

© Ordnance Survey Ireland 2023/OSI, NMA, 180. All elevations are in metres and relate to OSI Geoid Model (OSGM02) Malin Head as defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active GPS station Tallaght College (TLLG).

© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of, Jacobs' Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.



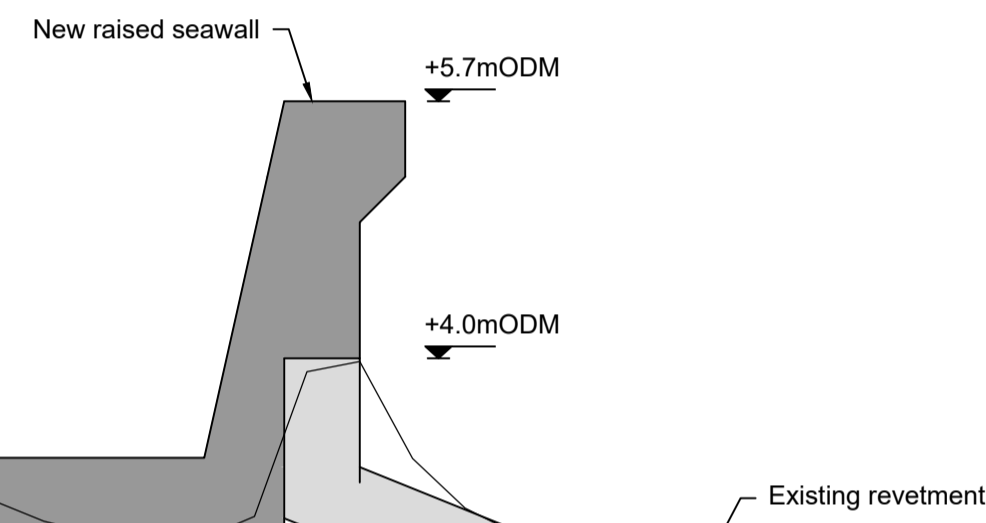
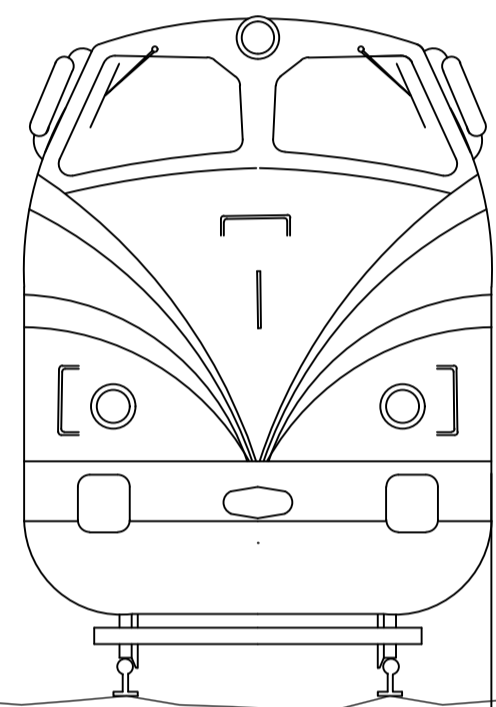
CCA1-D2 - TYPICAL CROSS SECTION

Scale 1:50

+3.50mODM (Year 2075 | 1 in 200RP)
+3.00mODM (Year 2025 | 1 in 200RP)

Rocky foreshore

-0.5mODM (varies)



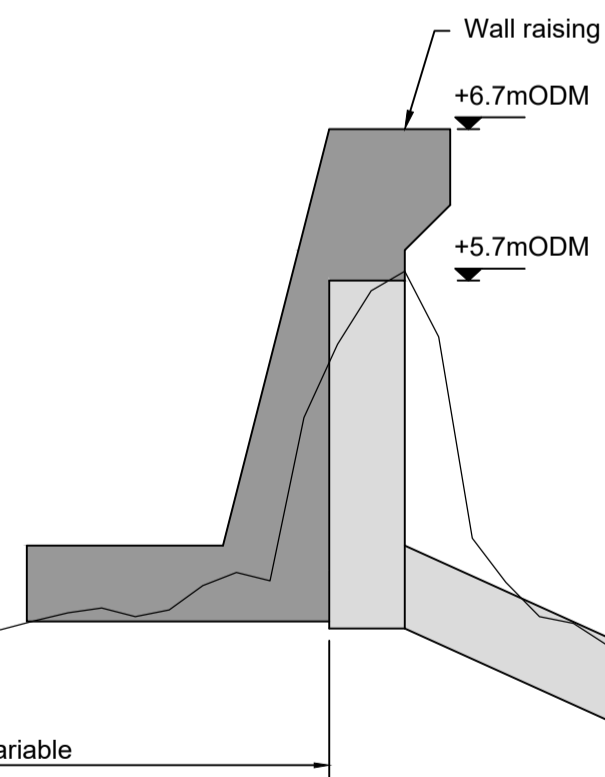
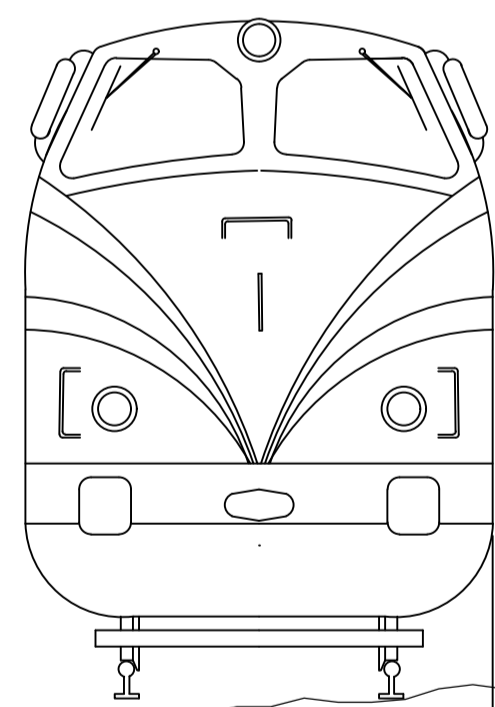
CCA1-D3 - TYPICAL CROSS SECTION

Scale 1:50

+3.50mODM (Year 2075 | 1 in 200RP)
+3.00mODM (Year 2025 | 1 in 200RP)

Rocky foreshore

-1.0mODM (varies)



CCA1-D5 - TYPICAL CROSS SECTION

Scale 1:50

+3.50mODM (Year 2075 | 1 in 200RP)
+3.00mODM (Year 2025 | 1 in 200RP)

Rocky foreshore

-1.5mODM (varies)

Estimated toe level

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 structure details are approximate only.
- Assumes wall raising of up to 1.5m can be placed on existing wall alignment. TBC following ground investigations.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-400.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising

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	Appr'd
A	08/10/2024	For client comment	DT	JS	JD	DK

Client:

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

Project:

Drawing title: **CCA1-D CONCEPT DESIGN CROSS SECTIONS**

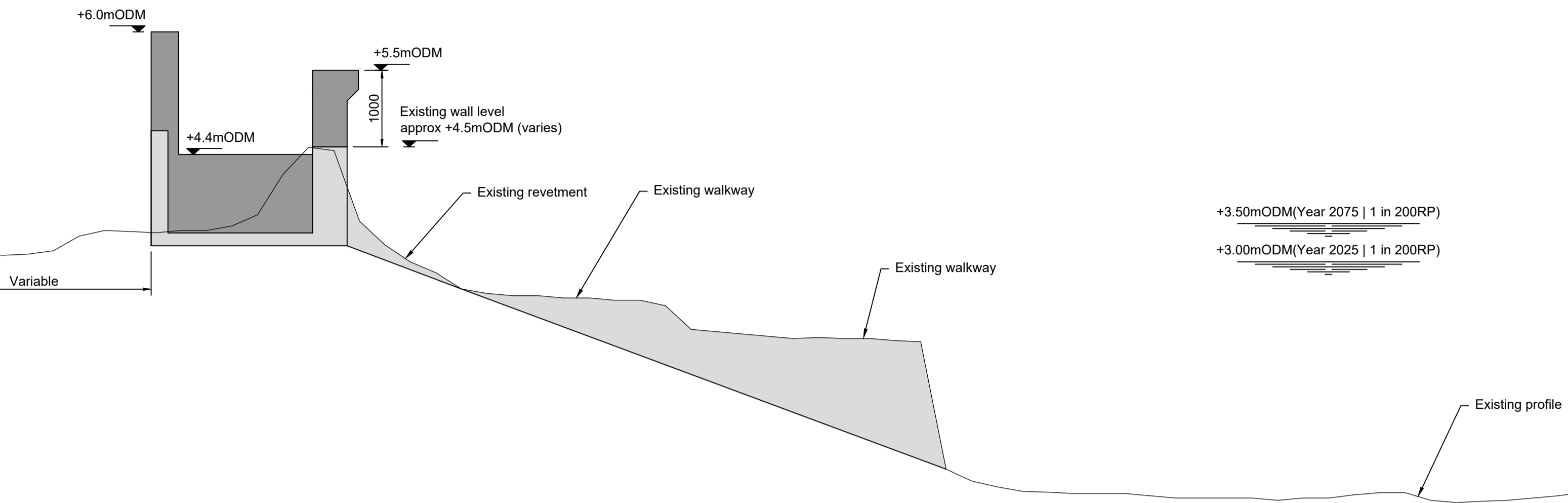
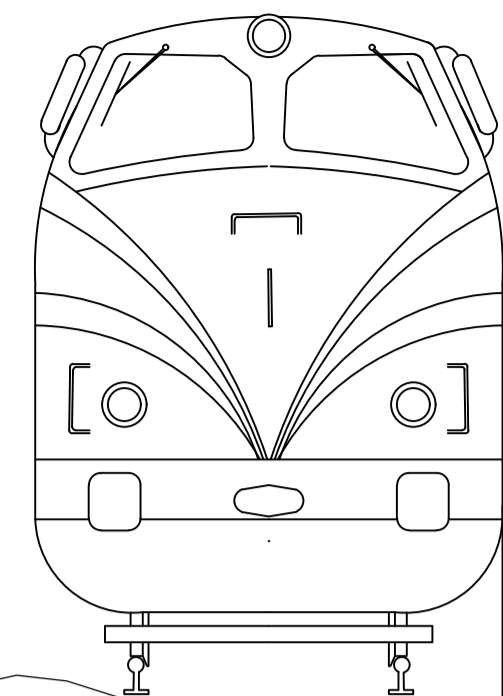
Drawing status: **For review and comment**

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

Drawing number	Project No	Work Package	Phase
7694-CCA1-P2	7694	CCA1	P2
Type	Discipline	Originator	Number
DWG-CV	JAC	JAC	0411

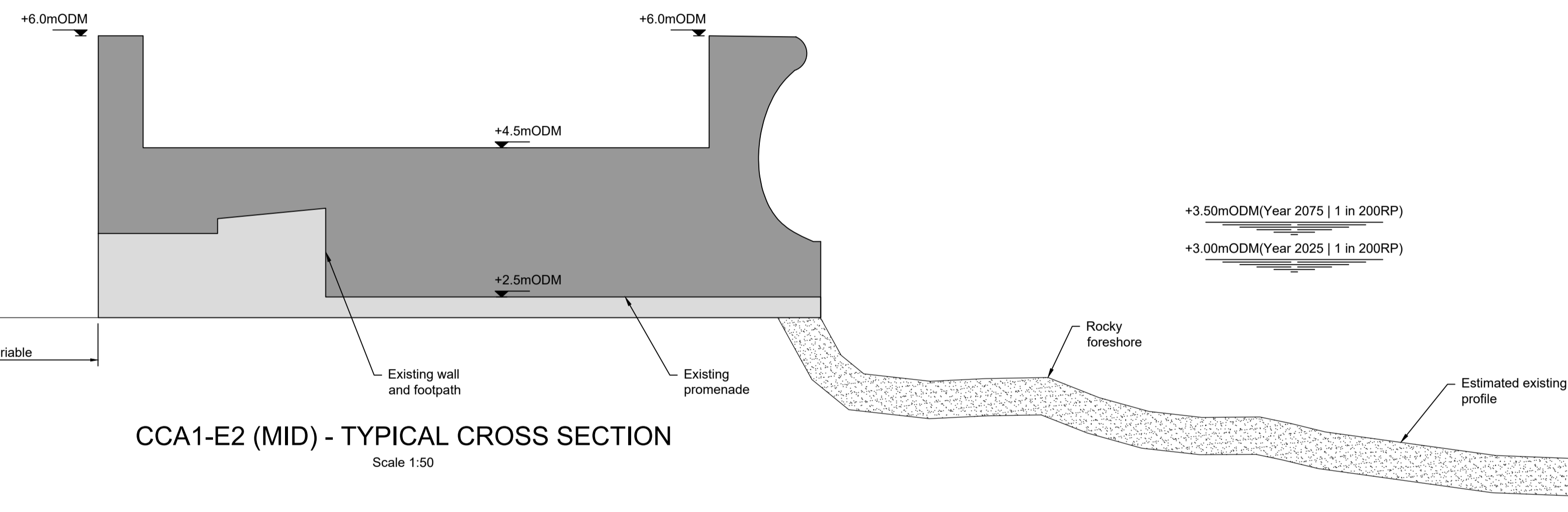
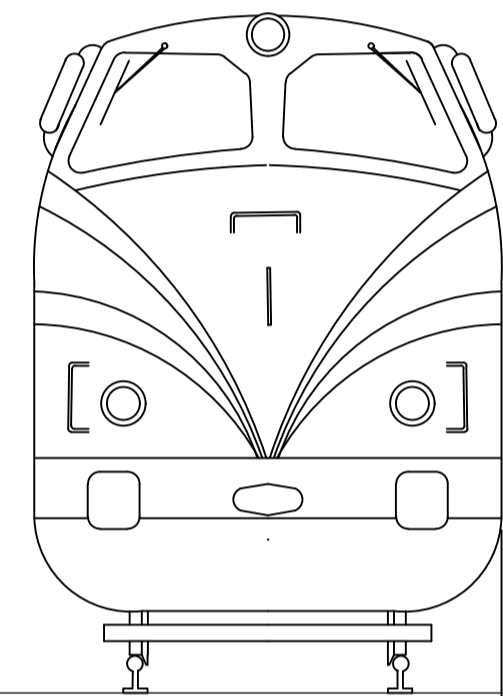
© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of, Jacobs' Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.





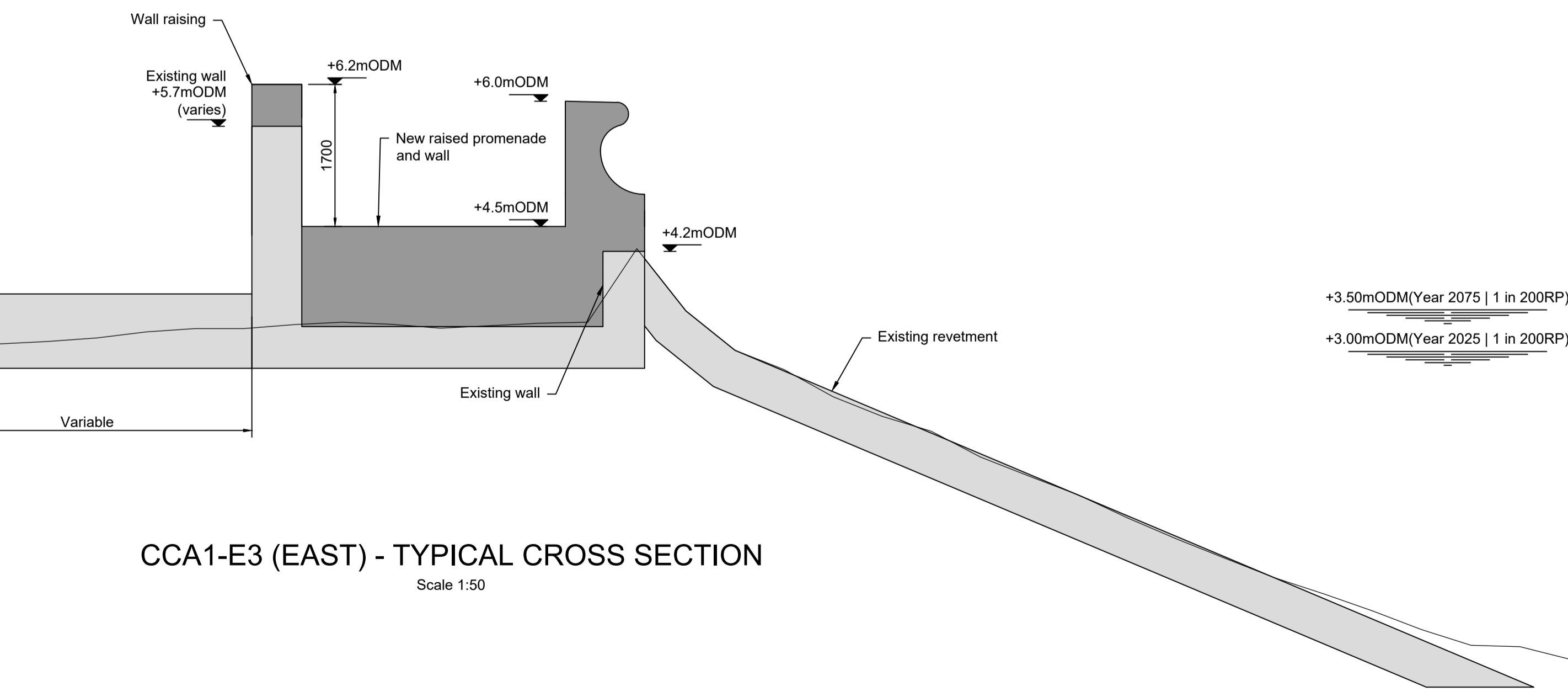
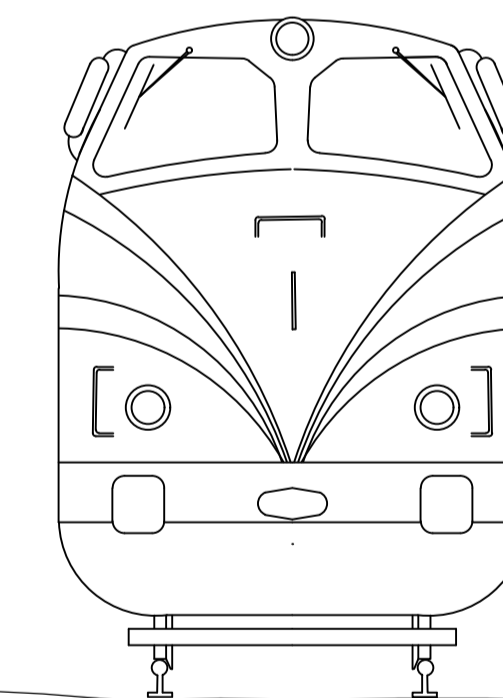
CCA1-E1 (WEST) - TYPICAL CROSS SECTION

Scale 1:50



CCA1-E2 (MID) - TYPICAL CROSS SECTION

Scale 1:50



CCA1-E3 (EAST) - TYPICAL CROSS SECTION

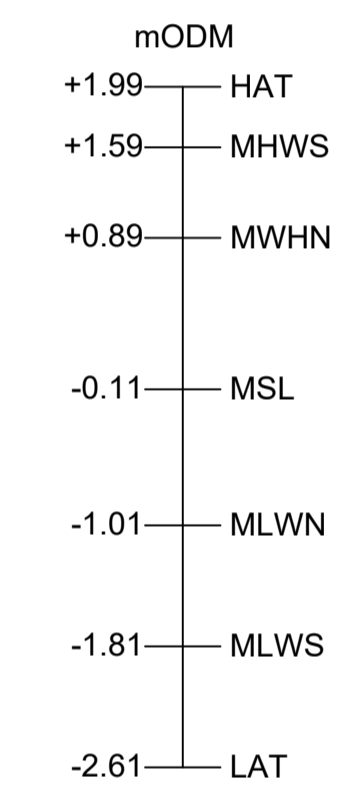
Scale 1:50

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 structure details are approximate only.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-0400.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising



TIDE BAR
DUBLIN NORTH WALL
(STANDARD PORT)

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
A	08/10/2024	For client comment	DT	JS	JD	-DK

Client:

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

Project:

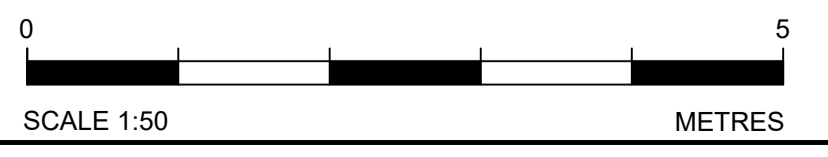
Drawing title: **CCA1-E
CONCEPT DESIGN
CROSS SECTIONS**

Drawing status: **For review and comment**

State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	A
Client no.	7694		
Drawing number	Project No	Work Package	Phase
7694- CCA1	-P2	-	-
Type	Discipline	Originator	Number
DWG- CV	- JAC	-	0412

C:\pwworking\jacobs-emea-01\1890147694-CCA1-P2-DWG-CV-JAC-0412.dwg - 08/10/2024 11:38:37 - A1Frame - TALBOTDK

© Ordnance Survey Ireland 2023/OSI, NMA, 180. All elevations are in metres and relate to OSI Geoid Model (OSGM02) Malin Head as defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active GPS station Tallaght College (TLLG).



© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on behalf of, and for the exclusive use of, Jacobs' Client, and is subject to, and issued in accordance with, the provisions of the contract between Jacobs and the Client. Jacobs accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this drawing by any third party.