

CCA1 - Site Location Plan - Part 1

Sub-Cell	Sub-cell Name	Length (m)
CCA1-A	Merrion Gates	390
CCA1-B	Merrion Spit	240
CCA1-C	Booterstown	1630
CCA1-D	Blackrock	1460
CCA1-E	Seapoint Beach	640



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.
- The railway line is electrified through this cell with overhead power lines.

LEGEND

- Railway line
- Existing Services
 - 110kV Power cable (buried)
 - 220kV Power cable (buried)
 - 38kV Power line



CCA1 - Site Location Plan - Part 2

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
V01	29.02.2024	Client Accepted	RM	JG	JG	DK
C	24.01.2024	Minor amendments	AE	JG	JUD	DK
B	21.12.2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17.11.2023	Draft Issue For Information	PC	JG	JUD	DK

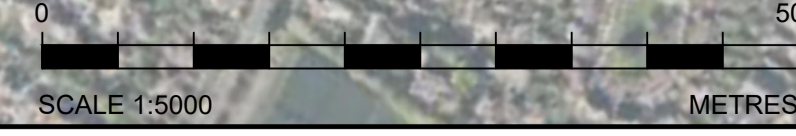
Client: Iarnród Éireann Irish Rail

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 1
SITE LOCATION PLAN**

Drawing status	Accepted		
State Code	Contract / Work Package 1		
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- CCA1	7694- CCA1	- P2	-
Type	Discipline	Originator	Number
DWG- CV	- JAC	-	0001

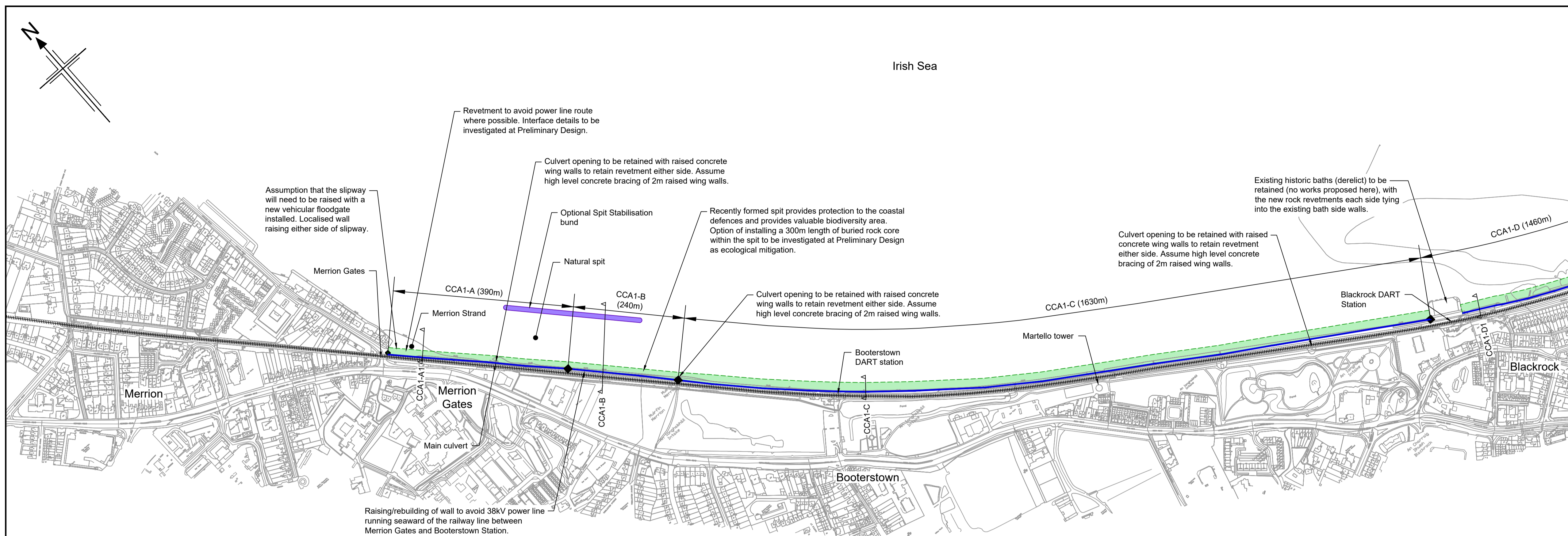


© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on 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.

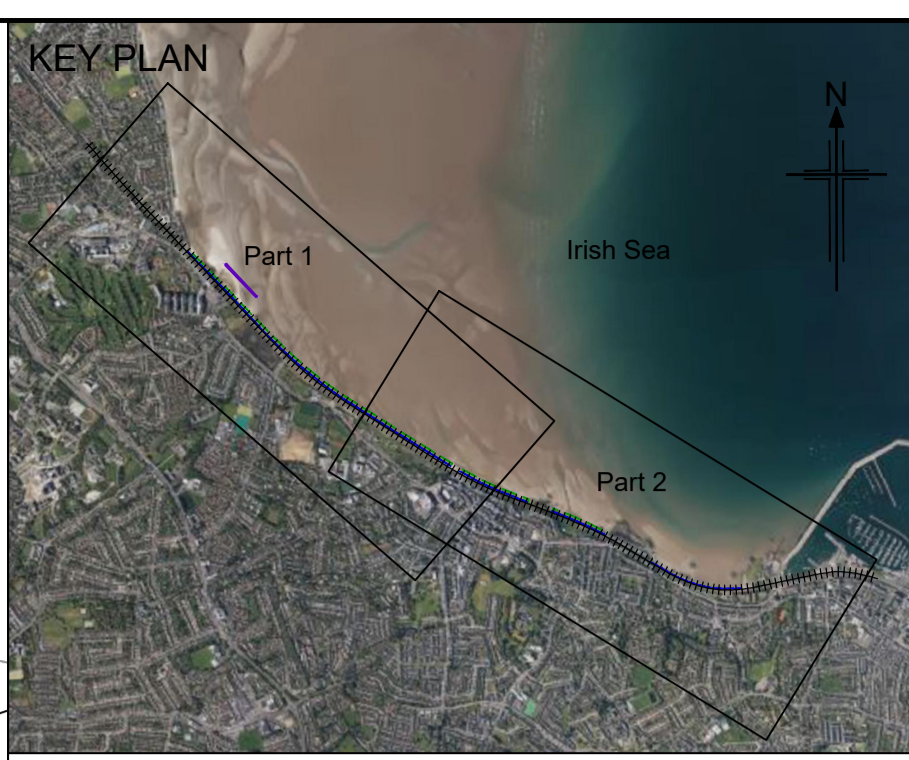
C:\pwworking\jacobs-emea-01\6018801417694-CCA1-IP2-DWG-CV-JAC-0001.dwg - 29/02/2024 11:43:00 - Layout - RMO59324

© 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).

Microsoft product imagery reprinted with permission from Microsoft Corporation. © 2023 Microsoft Corporation © 2023 Maxar ©CNES (2023) Distribution Airbus DS

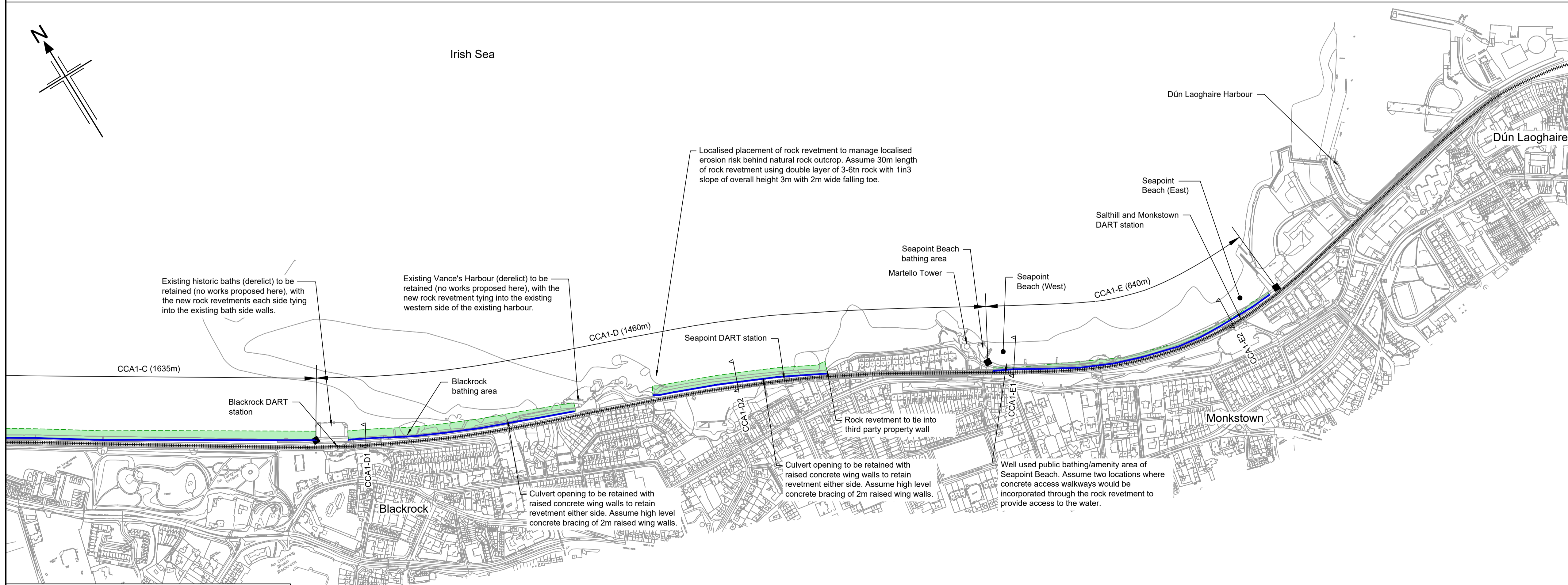


CCA1 - Option A Plan - Part 1



- 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.
 - The railway line is electrified through this cell with overhead power lines.

- LEGEND**
- Section locations
 - Railway line
 - Proposed Works
 - Rock revetment
 - Wall raising
 - Optional spit stabilisation bund



CCA1 - Option A Plan - Part 2

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
C	24.01.2024	Minor amendments	AE	JG	JUD	DK
B	21.12.2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17.11.2023	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, D04R2C3, Tel: +44 (0)203 9802000 www.jacobs.com

Project: **ECRIPP**
 lanród Éireann

Drawing title: **CONCEPT DESIGN CCA 1 OPTION A PLAN**

Drawing status: **Accepted**

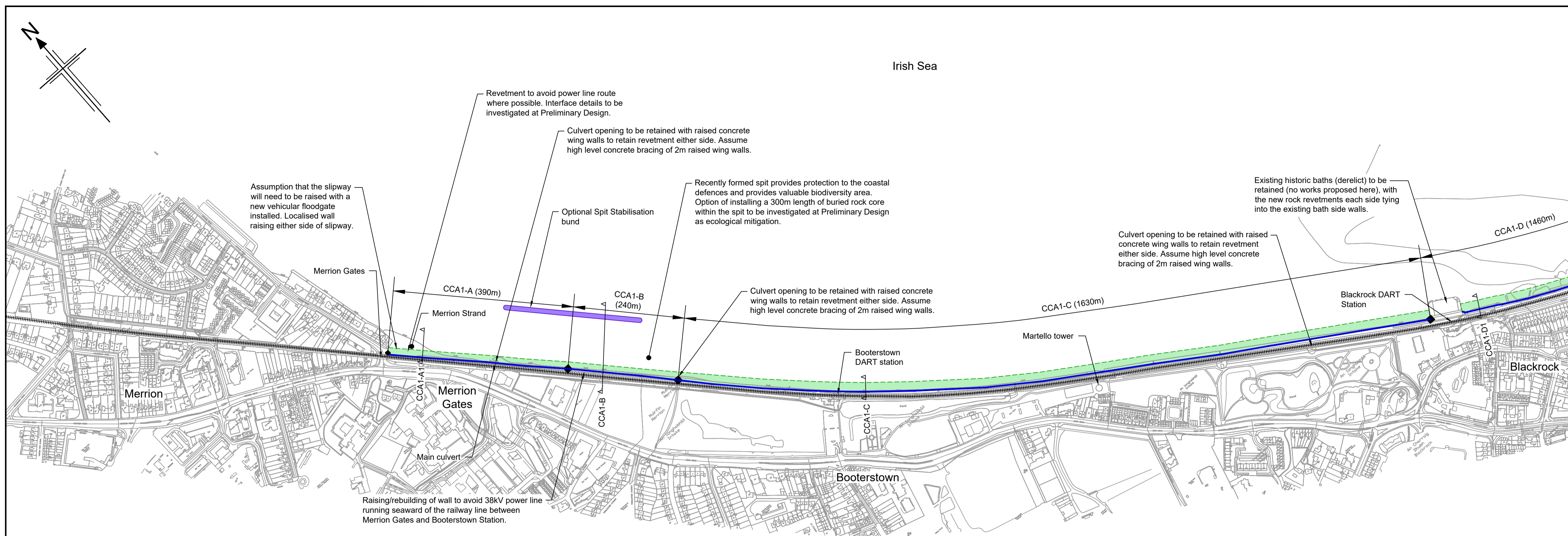
State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:5000	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No	Work Package	Phase
7694- CCA1	- P2	-	-
Type	Discipline	Originator	Number
DWG - CV	- JAC	-	- 0100



C:\pwworking\jacobs-emea-01\60147684-CCA1-P2-DWG-CV-JAC-0100.dwg - 29/02/2024 11:47:08 - Layout - RMD59324

© 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).
 Microsoft product imagery reprinted with permission from Microsoft Corporation.
 © 2023 Microsoft Corporation © 2023 Maxar ©CNES (2023) Distribution Airbus DS

© 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 - Option B Plan - Part 1



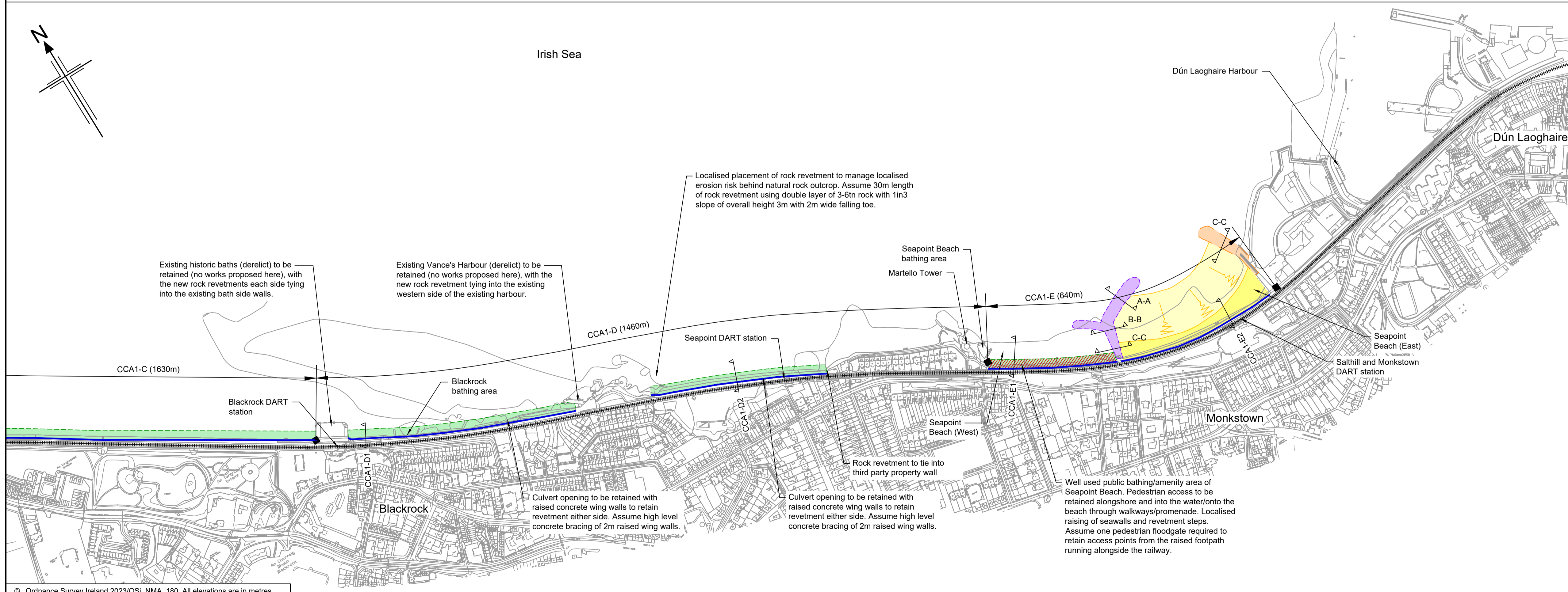
- NOTES**
- All levels are in mODM.
 - Do not scale from this drawing.
 - Size and location of all structures is indicative only and to be determined through design development.
 - The railway line is electrified through this cell with overhead power lines.

LEGEND

- Section locations
- Railway line

Proposed Works

- Rock revetment
- Stepped revetment
- Groyne
- Breakwater
- Wall raising
- Optional spit stabilisation bund
- Beach nourishment



CCA1 - Option B Plan - Part 2

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
C	24.01.2024	Minor amendments	AE	JG	JUD	DK
B	21.12.2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17.11.2023	Draft Issue For Information	PC	JG	JUG	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**
 lanród Éireann

Drawing title: **CONCEPT DESIGN CCA 1 OPTION B PLAN**

Drawing status: **Accepted**

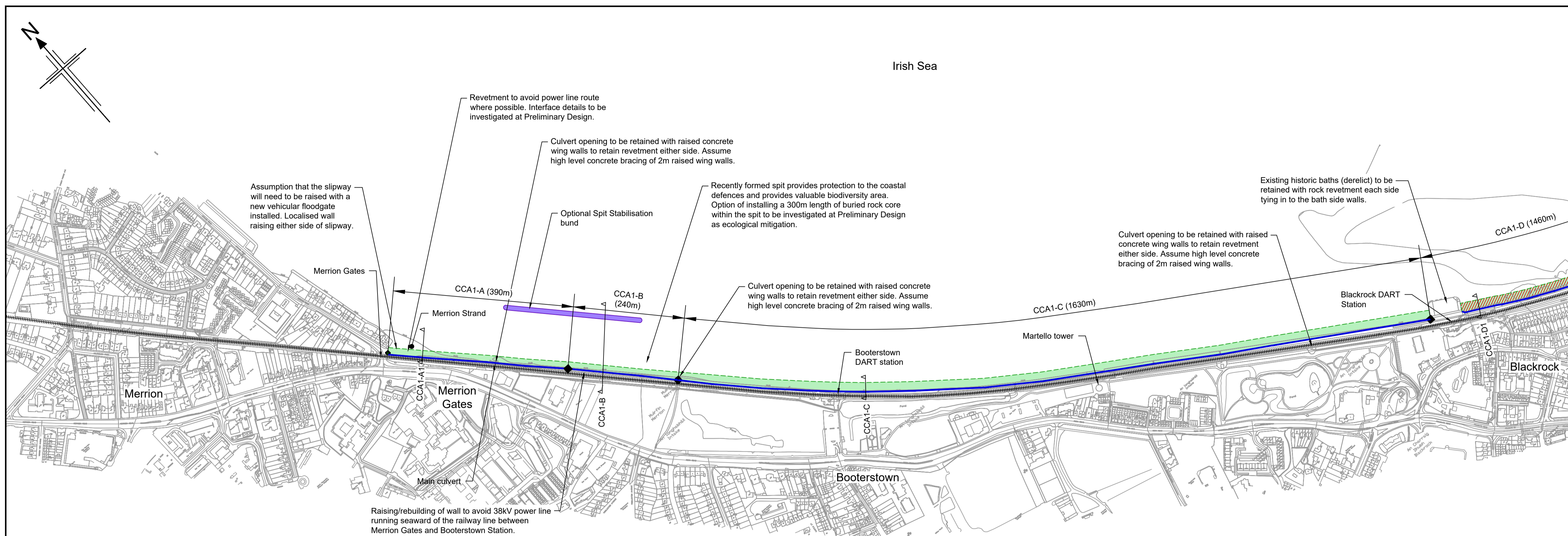
State Code	Contract / Work Package 1	
Project Stage	Project Concept, Feasibility & Option Selection	
Scale	1:5000	DO NOT SCALE
Jacobs No.	D3658300	Rev V01
Client no.	7694	
Drawing number	Project No Work Package Phase	
	7694- CCA1 - P2 -	
	Type Discipline Originator Number	
	DWG - CV - JAC - 0101	



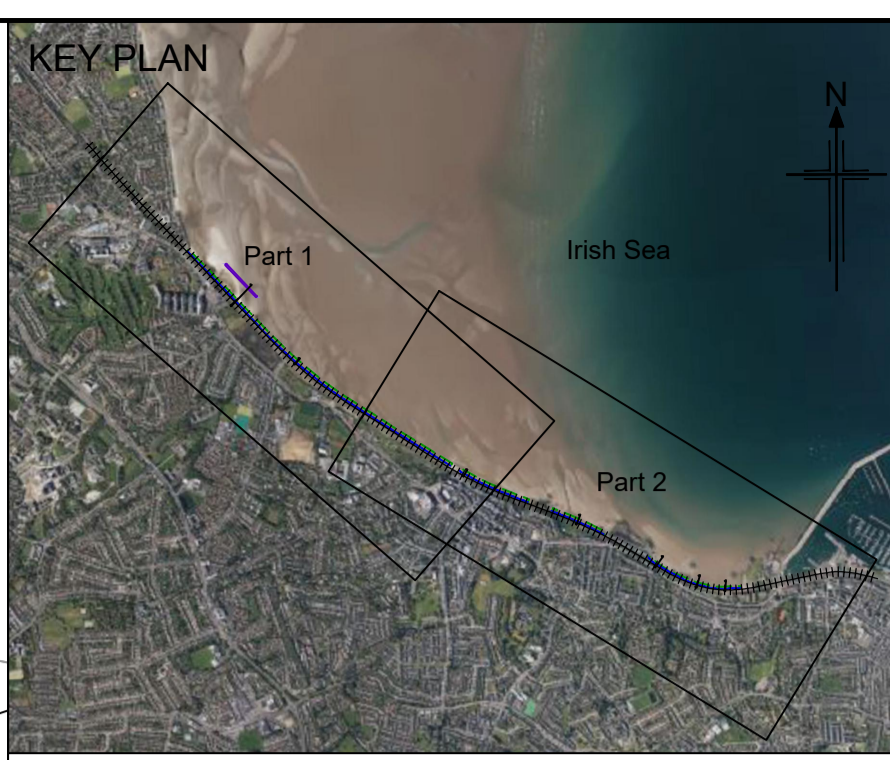
C:\pwworking\jacobs-emea-0160147684-CCA1-P2-DWG-CV-JAC-0101.dwg - 29/02/2024 11:50:01 - Layout - RMD59324

© 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).
 Microsoft product imagery reprinted with permission from Microsoft Corporation.
 © 2023 Microsoft Corporation © 2023 Maxar ©CNES (2023) Distribution Airbus DS

© 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.

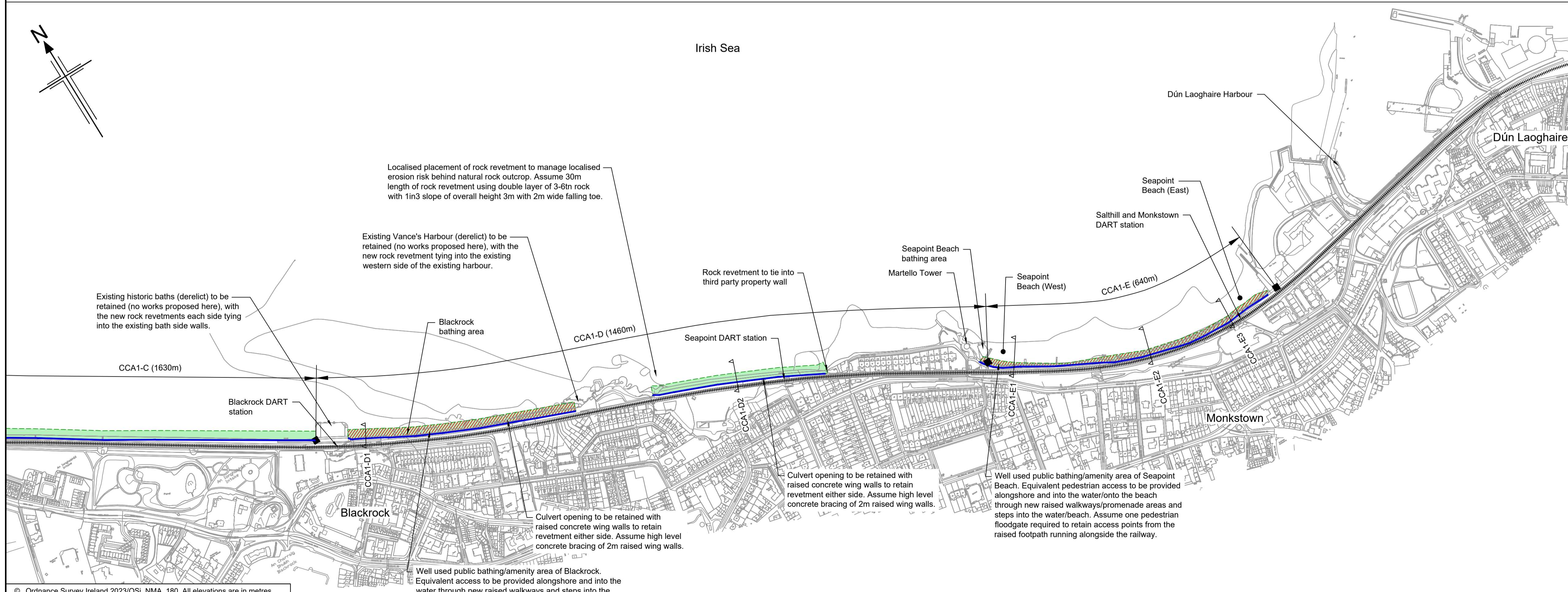


CCA1 - Option C Plan - Part 1



- 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.
 - The railway line is electrified through this cell with overhead power lines.

- LEGEND**
- Section locations
 - Railway line
 - Proposed Works:
 - Rock revetment
 - Stepped revetment
 - Wall raising
 - Optional spit stabilisation bund



CCA1 - Option C Plan - Part 2

V01	29.02.2024	Client Accepted	AE	RM	JG	DK
C	24.01.2024	Minor amendments	AE	JG	JUD	DK
B	21.12.2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17.11.2023	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**

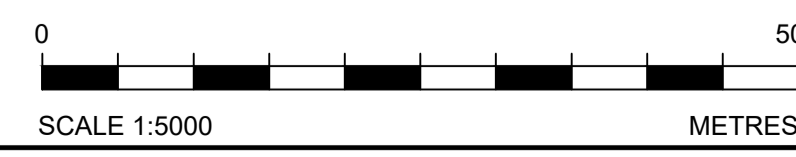
Designer: **JACOBS**
 Merrion House, Merrion Rd, Dublin 4, Ireland, D04R2C5, Tel: +44 (0)203 9802000
 www.jacobs.com

Project: **ECRIPP**
 lanród Éireann

Drawing title: **CONCEPT DESIGN CCA 1 OPTION C PLAN**

Drawing status: **Accepted**

State Code	Contract / Work Package 1		
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-	CCA1	-P2-	
DWG-	CV	-JAC	-0102



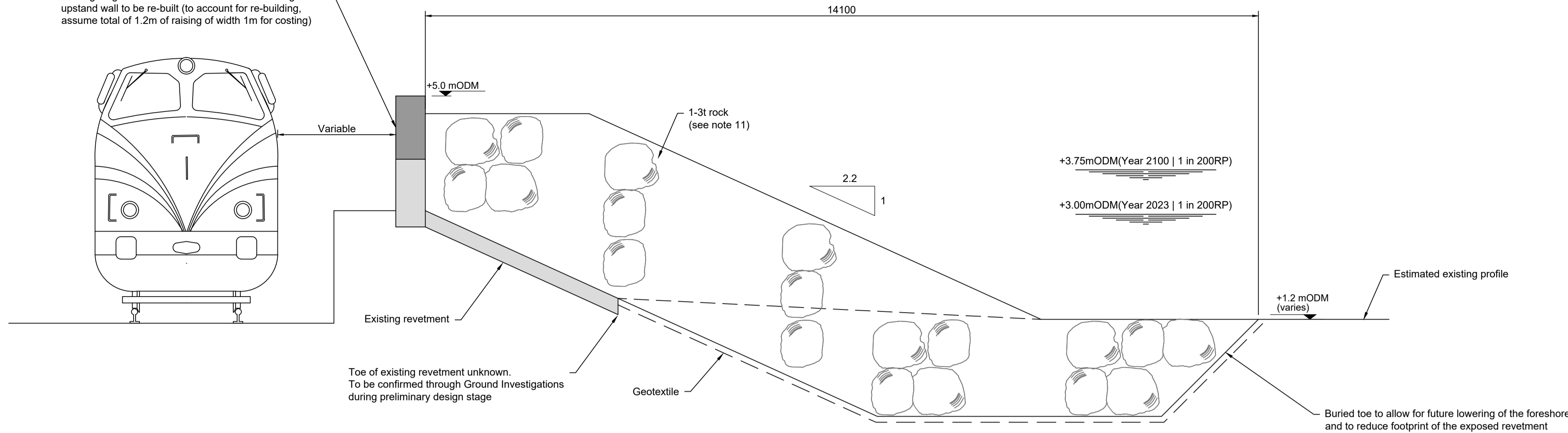
C:\pwworking\jacobs-emea-01\60147684-CCA1-IP2-DWG-CV-JAC-0102.dwg - 29/02/2024 11:48:16 - Layout - RMO59324

© 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).

Microsoft product imagery reprinted with permission from Microsoft Corporation. © 2023 Microsoft Corporation © 2023 Maxar ©CNES (2023) Distribution Airbus DS

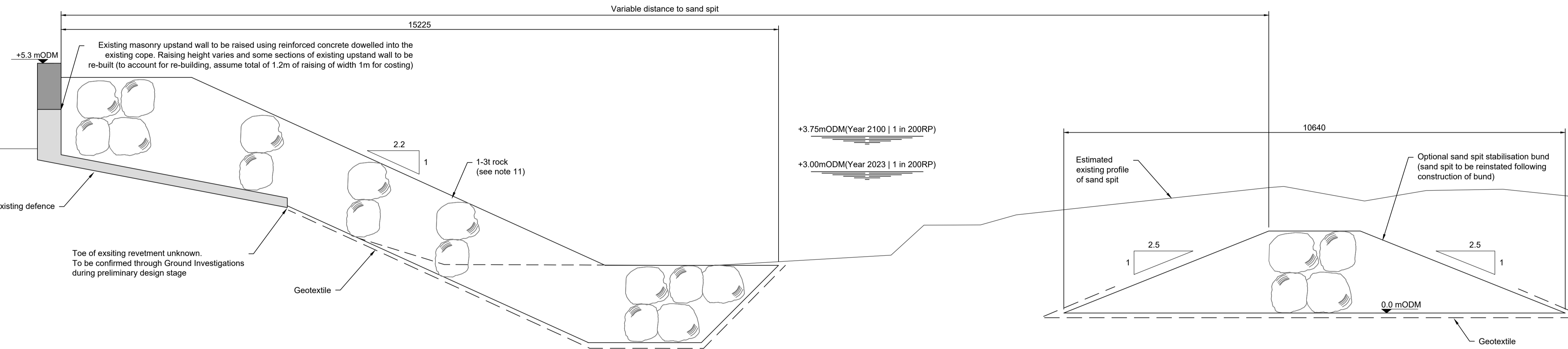
© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on 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.

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 (to account for re-building, assume total of 1.2m of raising of width 1m for costing)



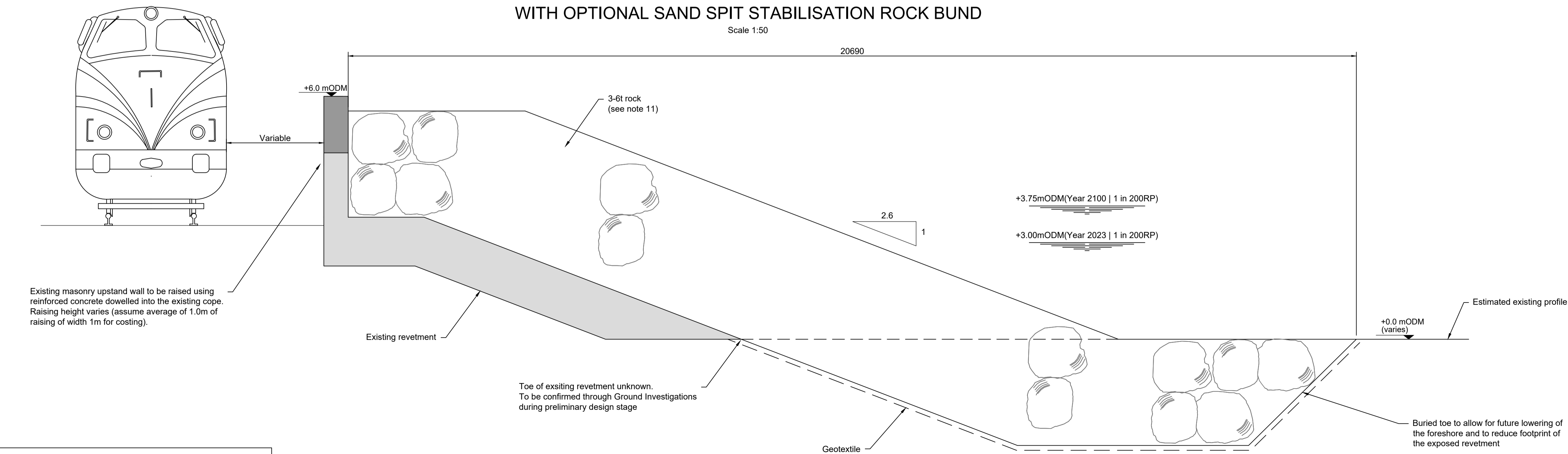
CCA1-A - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE

Scale 1:50



CCA1-B ALL OPTIONS - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE WITH OPTIONAL SAND SPIT STABILISATION ROCK BUND

Scale 1:50



CCA1-C - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE

0 5000
SCALE 1:50 MILLIMETRES

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.
- Rock Armour slope to match existing revetment slope. TBC.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial, Preliminary results.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-100, 101 and 102.
- Condition and stability of existing revetment under the rock armour to be assessed following Ground Investigations during preliminary design stage.
- The top profile of rock structures will be rough and will vary. Public should be kept off these structures as they will be slippery with potentially deep voids between individual rocks.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising
- 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
C	24-01-2024	Minor amendments	AE	JG	JUD	DK
B	21-12-2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17-11-2023	Draft issue for information	AE	JG	JUD	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

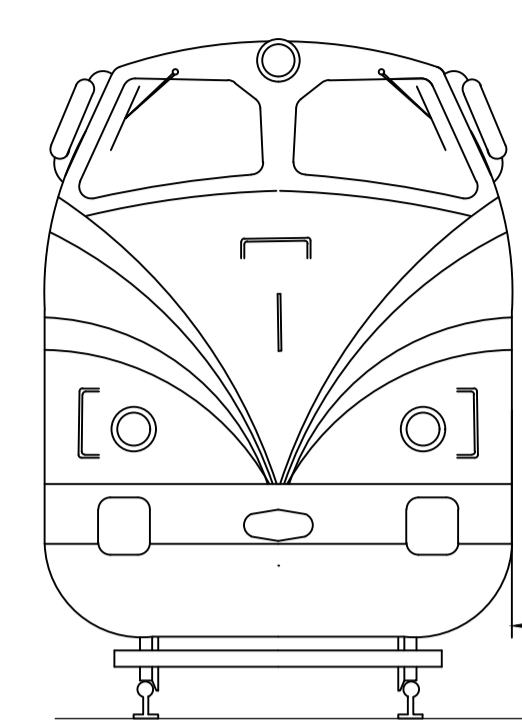
Drawing title
**CCA1-A, CCA1-B & CCA1-C
CROSS SECTIONS
OPTIONS A, B & C**

Drawing status		Accepted	
State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	7694- CCA1 - P2 -	Work Package	JAC
Type	DWG - CV	Discipline	JAC
Originator	JAC	Number	0200

© 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.

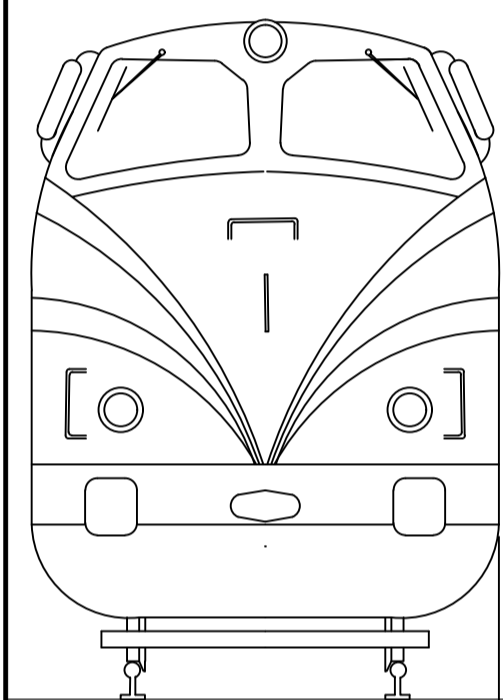
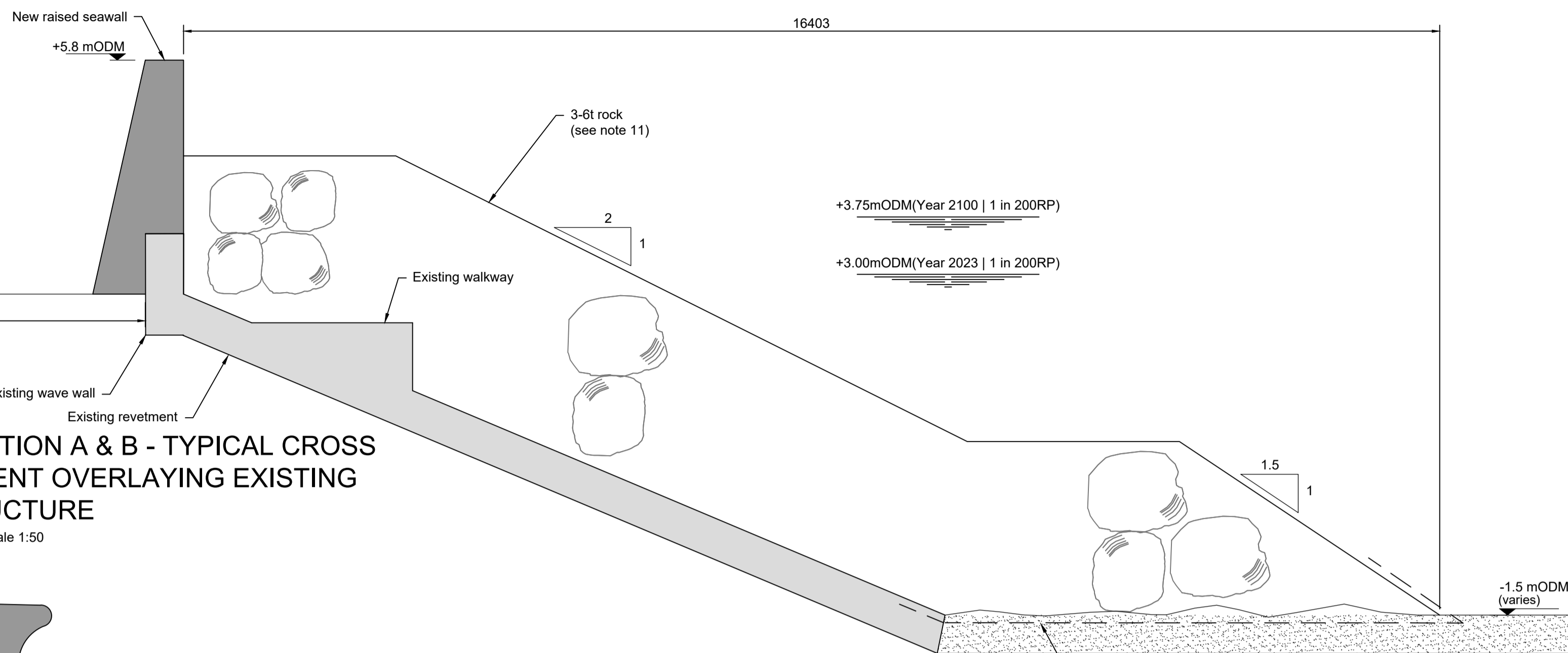
C:\pwworking\jacobs-emea-01\6890147684-CCA1-P2-DWG-CV-JAC-0200.dwg - 29/02/2024 11:51:24 - A1Frame - RM059524

© 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).



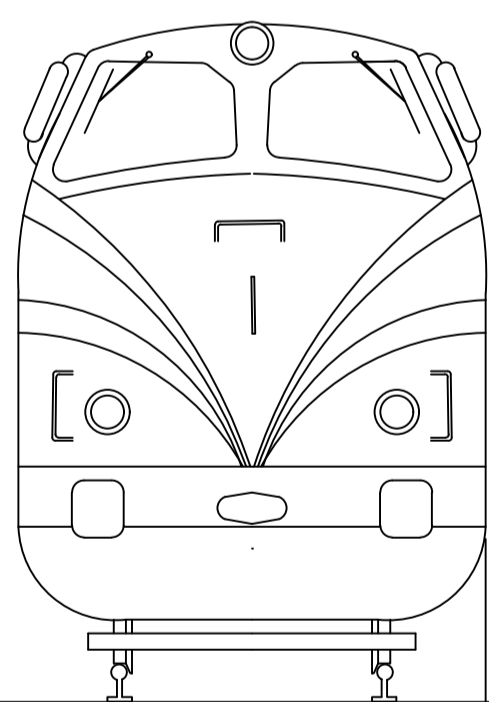
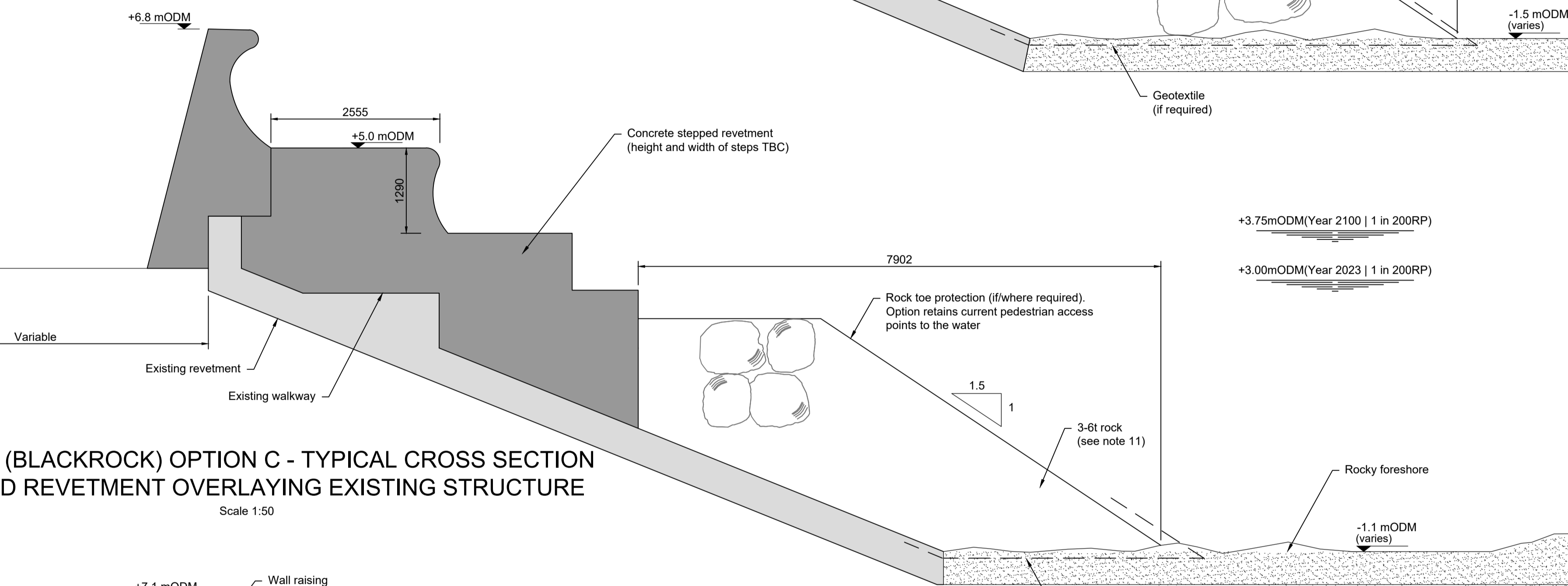
CCA1-D1 (BLACKROCK) OPTION A & B - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE

Scale 1:50



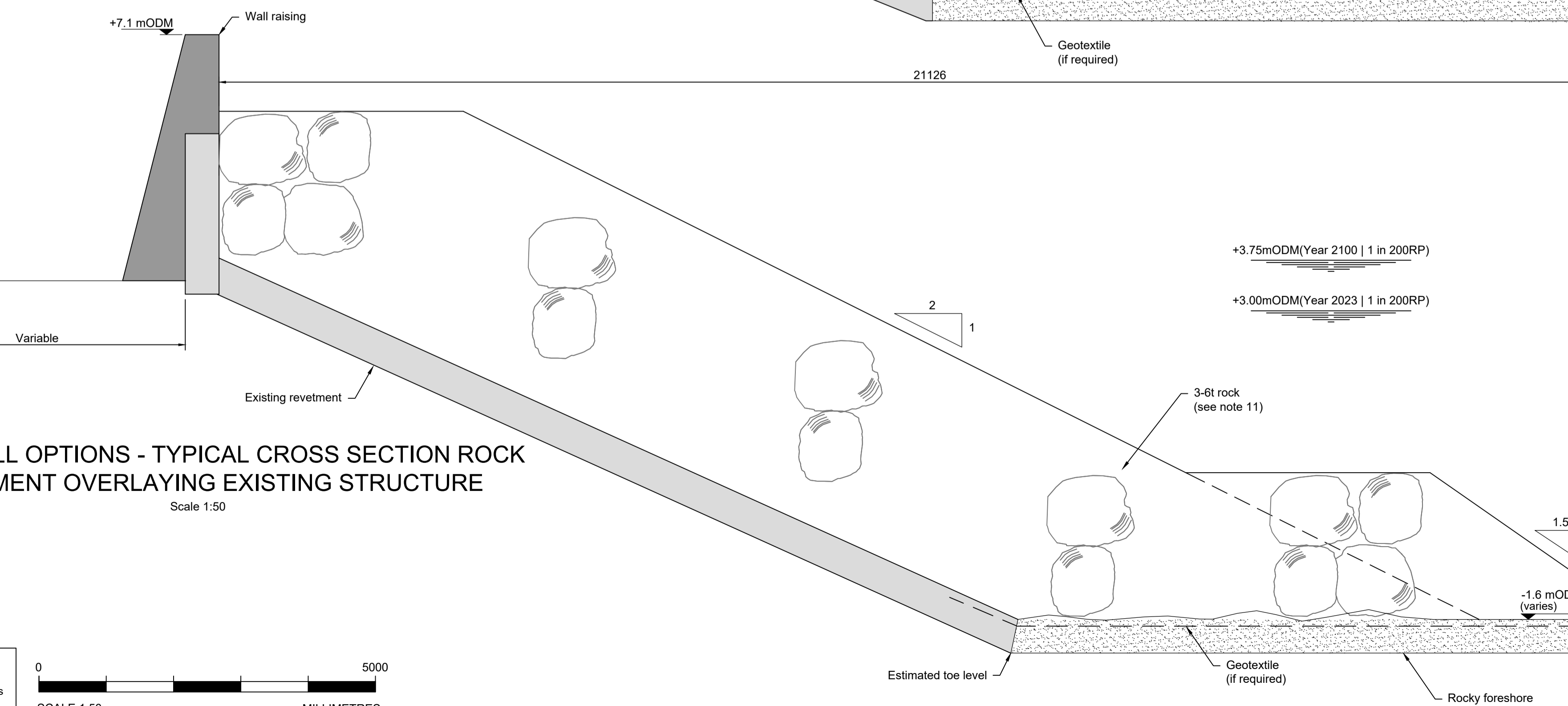
CCA1-D1 (BLACKROCK) OPTION C - TYPICAL CROSS SECTION STEPPED REVETMENT OVERLAYING EXISTING STRUCTURE

Scale 1:50



CCA1-D2 ALL OPTIONS - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE

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.
- Rock Armour slope to match existing revetment slope. TBC.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial, Preliminary results.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-100, 101 and 102.
- Condition and stability of existing revetment under the rock armour to be assessed following Ground Investigations during preliminary design stage.
- The top profile of rock structures will be rough and will vary. Public should be kept off these structures as they will be slippery with potentially deep voids between individual rocks.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising
- 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
C	24-01-2024	Minor amendments	AE	JG	JUD	DK
B	21-12-2023	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, D04R2C5, Tel: +44 (0)203 9802000, www.jacobs.com

Project:

Drawing title: **CCA1-D CROSS SECTIONS OPTIONS A, B & C**

Drawing status: **Accepted**

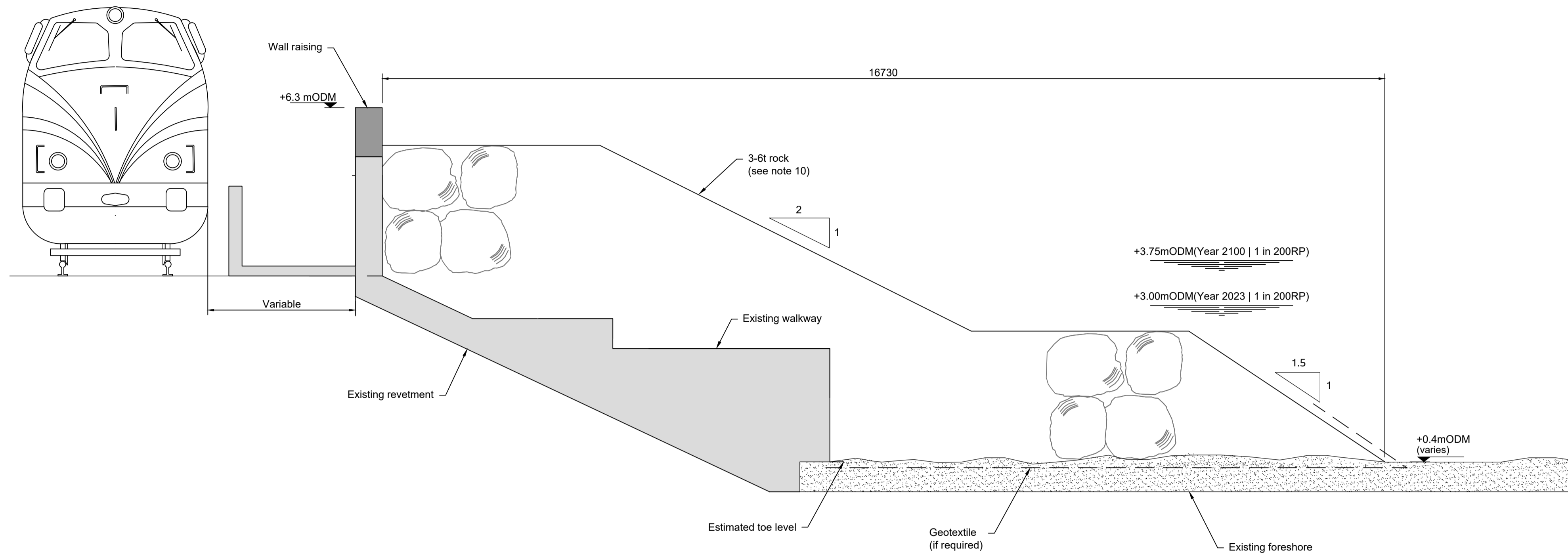
State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No Work Package Phase		
	7694- CCA1- -P2 -		
	Type Discipline Originator Number		
	DWG- CV - JAC - -0201		

© 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:\p\working\jacobs-emea-01\6801417694-CCA1-P2-DWG-CV-JAC-0201.dwg - 29/02/2024 11:52:50 - A1Frame - RM059524

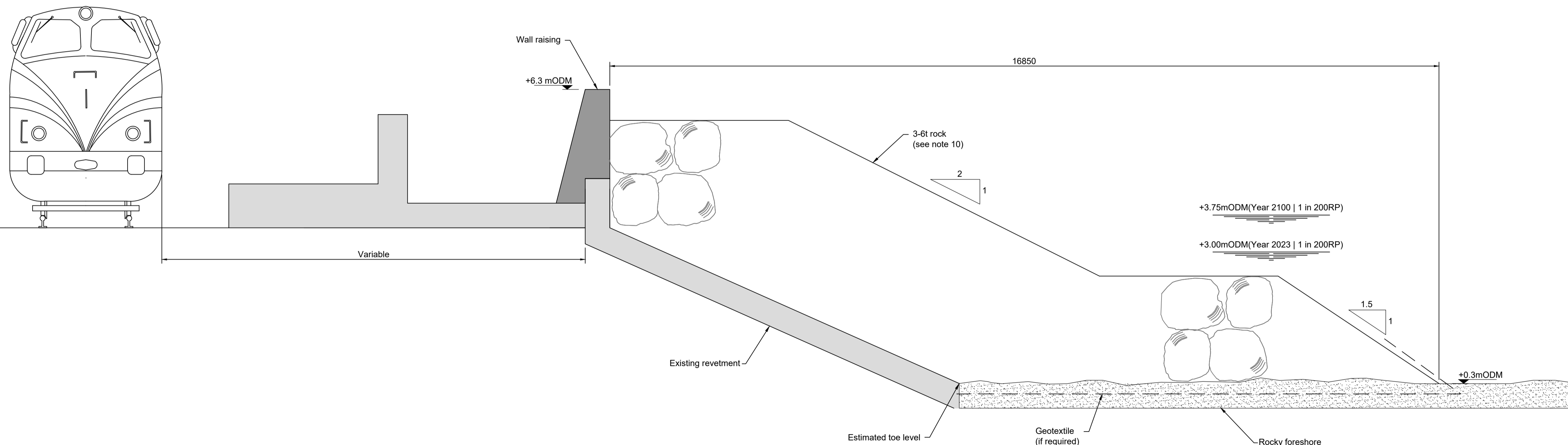
© Ordnance Survey Ireland 2023/OSI_NMA_180. All elevations are in metres and relate to OSI Geoid Model (OSGM02) Malin Head as defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active GPS station Tallaght College (TLLG).





CCA1-E1 (WEST) OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE

Scale 1:50



CCA1-E2 (EAST) OPTION A - TYPICAL CROSS SECTION ROCK REVETMENT OVERLAYING EXISTING STRUCTURE

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.
- Rock Armour slope to match existing revetment slope. TBC.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial, Preliminary results.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-100.
- Condition and stability of existing revetment under the rock armour to be assessed following Ground Investigations during preliminary design stage.
- The top profile of rock structures will be rough and will vary. Public should be kept off these structures as they will be slippery with potentially deep voids between individual rocks.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising
- 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
C	24-01-2024	Minor amendments	AE	JG	JJD	DK
B	21-12-2023	Comments Addressed	AE	JG	JJD	DK
P01.1	17-11-2023	Draft issue for information	AE	JG	JJD	DK

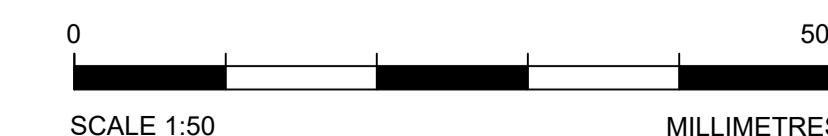
Client
lanród Éireann
Irish Rail

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

Project
ECRIPP
Irish Rail

Drawing title
CCA1-E
CROSS SECTIONS
OPTION A (EAST & WEST)

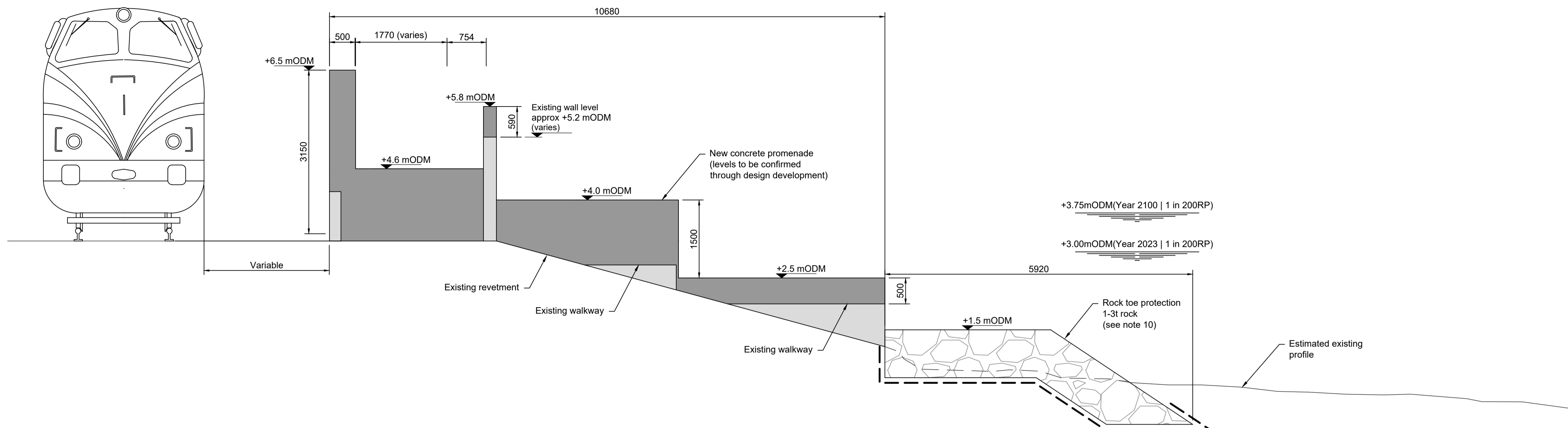
Drawing status		Accepted	
State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No Work Package Phase		
	7694- CCA1 - P2 -		
	Type Discipline Originator Number		
	DWG- CV - JAC - 0202		



C:\pwworking\jacobs-emea-01\60189014\7694-CCA1-P2-DWG-CV-JAC-0202.dwg - 29/02/2024 11:54:22 - A1Frame - RM059524

© 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.



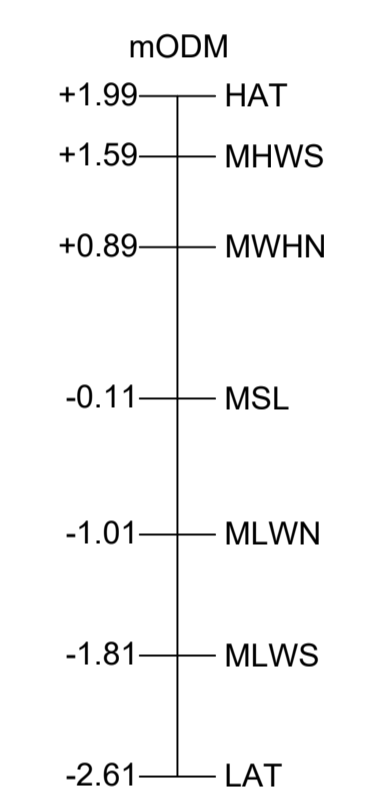
CCA1-E1 (WEST) OPTION B - TYPICAL CROSS SECTION

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.
 - Rock Armour slope to match existing revetment slope. TBC.
 - All levels and dimensions are approximate and to be confirmed through design development.
 - Topography taken from UAV survey 25th September 2023, Murphy Geospatial, Preliminary results.
 - For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-101.
 - Condition and stability of existing revetment under the rock armour to be assessed following Ground Investigations during preliminary design stage.
 - The top profile of rock structures will be rough and will vary. Public should be kept off these structures as they will be slippery with potentially deep voids between individual rocks.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising
- Geotextile



TIDE BAR DUBLIN NORTH WALL (STANDARD PORT)

V01	29-02-2024	Client Accepted	AE	RM	JG	DK
C	24-01-2024	Minor amendments	AE	JG	JUD	DK
B	21-12-2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17-11-2023	Draft issue for information	AE	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

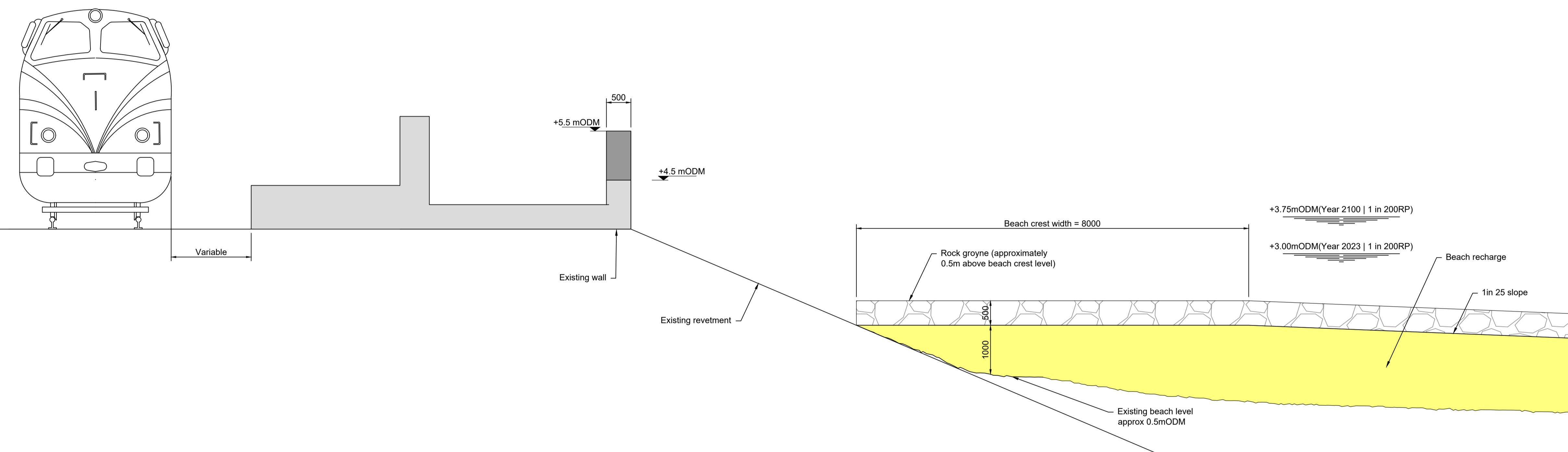
Project: **ECRIPP**

Drawing title: **CCA1-E CROSS SECTIONS OPTION B**

Drawing status: **Accepted**

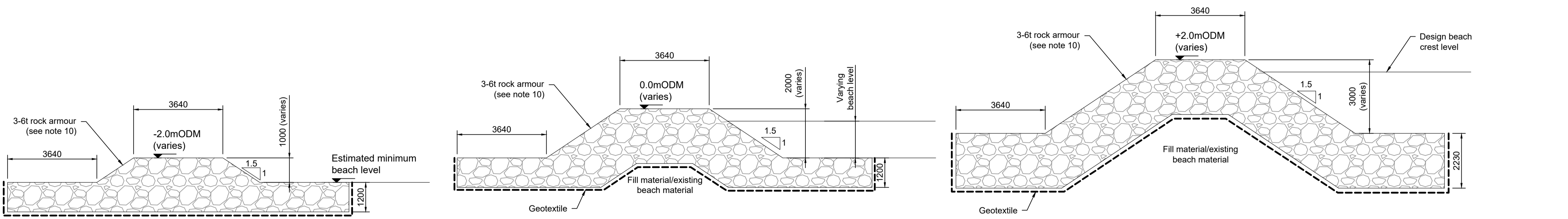
State Code	Contract / Work Package 1
Project Stage	Project Concept, Feasibility & Option Selection
Scale	1:50 DO NOT SCALE
Jacobs No.	D3658300 Rev V01
Client no.	7694
Drawing number	Project No Work Package Phase
	7694- CCA1 - P2 -
	Type Discipline Originator Number
	DWG- CV - JAC - 0203

© 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.



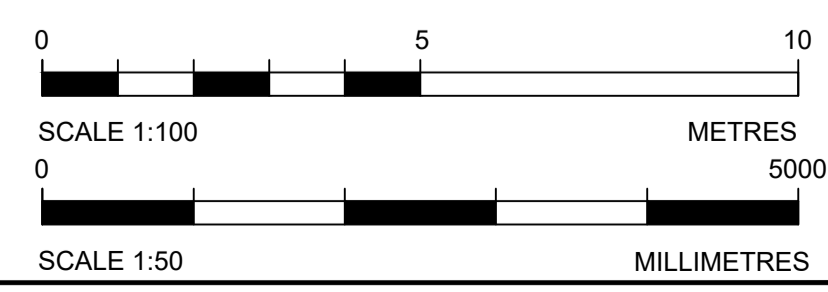
CCA1-E2 (EAST) OPTION B - EAST BEACH TYPICAL CROSS SECTION

Scale 1:50



CCA1-E OPTION B - TYPICAL CROSS SECTIONS THROUGH GROUPE AND BREAKWATER

Scale 1:100



C:\pwworking\jacobs-emea-01\680147684-CCA1-P2-DWG-CV-JAC-0203.dwg - 29/02/2024 11:55:13 - A1Frame - RM059324

© 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).

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.
- Rock Armour slope to match existing revetment slope. TBC.
- All levels and dimensions are approximate and to be confirmed through design development.
- Topography taken from UAV survey 25th September 2023, Murphy Geospatial, Preliminary results.
- For cross section locations refer to drawing 7694-CCA1-P2-DWG-CV-JAC-102.
- Condition and stability of existing revetment under the rock armour to be assessed following Ground Investigations during preliminary design stage.
- The top profile of rock structures will be rough and will vary. Public should be kept off these structures as they will be slippery with potentially deep voids between individual rocks.

Legend

- Existing Structures
- New Reinforced Concrete Wall Raising
- 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
C	24-01-2024	Minor amendments	AE	JG	JUD	DK
B	21-12-2023	Comments Addressed	AE	JG	JUD	DK
P01.1	17-11-2023	Draft issue for information	AE	JG	JUD	DK

Client: **Iarnród Éireann
Irish Rail**

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

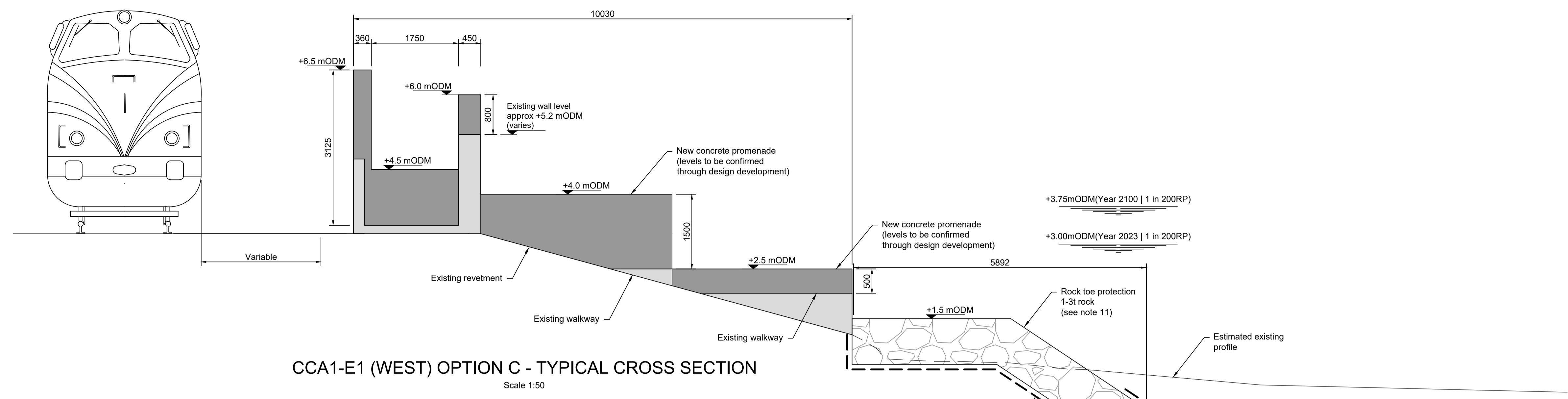
Project: **ECRIPP**
Iarnród Éireann

Drawing title: **CCA1-E
CROSS SECTIONS
OPTION C**

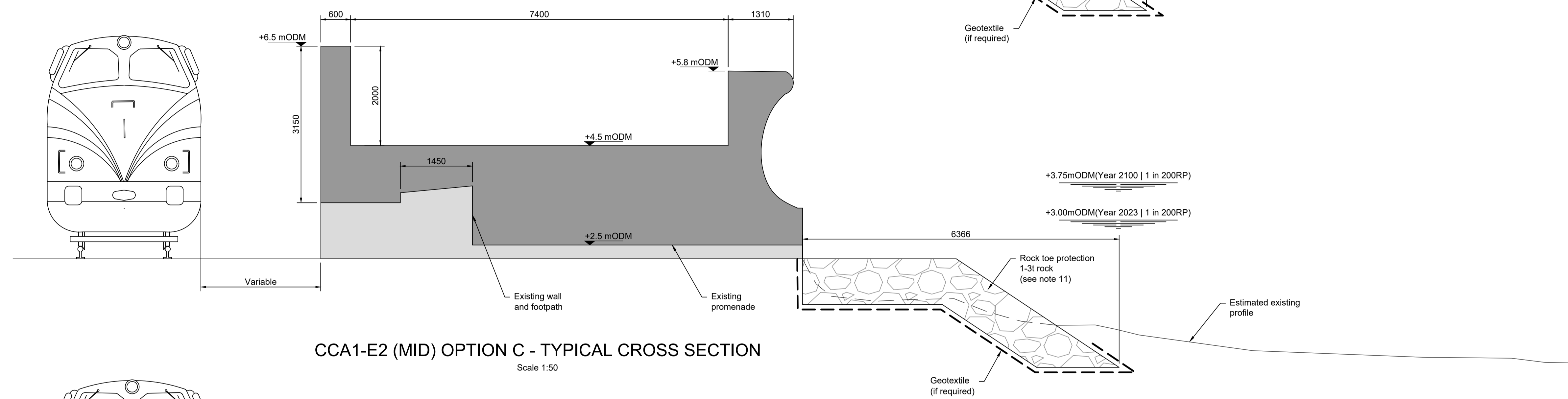
Drawing status: **Accepted**

State Code	Contract / Work Package 1		
Project Stage	Project Concept, Feasibility & Option Selection		
Scale	1:50	DO NOT SCALE	
Jacobs No.	D3658300	Rev	V01
Client no.	7694		
Drawing number	Project No Work Package Phase	7694- CCA1 - P2 -	
	Type Discipline Originator Number	DWG- CV - JAC - 0204	

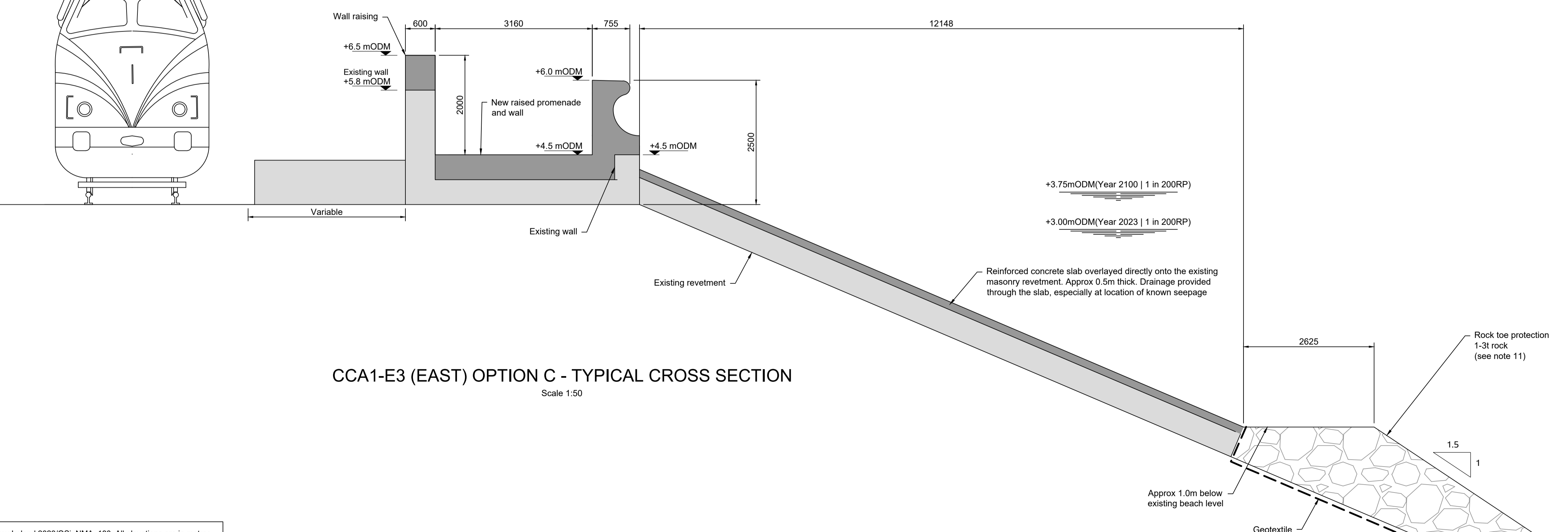
© Copyright 2023 Jacobs U.K. Limited. The concepts and information contained in this document are the property of Jacobs. Use or copying of this document in whole or in part without the written permission of Jacobs constitutes an infringement of copyright. Limitation: This drawing has been prepared on 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) OPTION C - TYPICAL CROSS SECTION
Scale 1:50



CCA1-E2 (MID) OPTION C - TYPICAL CROSS SECTION
Scale 1:50



CCA1-E3 (EAST) OPTION C - TYPICAL CROSS SECTION
Scale 1:50

C:\pwworking\jacobs-emea-01\6018801417694-CCA1-P2-DWG-CV-JAC-0204.dwg - 29/02/2024 11:56:28 - A1Frame - RM059324

© 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).

