

Appendix B18
Bridges and Major
Retaining Structures



BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS

BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME

BRIDGES AND MAJOR RETAINING STRUCTURES

DRAWING SERIES NUMBER(S)

BCIDD-ROT-STR_IX-0304_XX_00-DR-SS-0001
 BCIDD-ROT-STR_KP-0304_XX_00-DR-SS-0001
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0001
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0002
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0003
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0004
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0005
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0006
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0007
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0008
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0009
 BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0010

DRAWING SERIES DESCRIPTION

BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. COVER SHEET
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. BRIDGES & RETAINING STRUCTURES. KEY PLAN
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 01. GENERAL ARRANGEMENT
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 01. SECTIONS
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 02. GENERAL ARRANGEMENT
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 02. SECTIONS
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 03. GENERAL ARRANGEMENT
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 03. SECTIONS
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 04. GENERAL ARRANGEMENT
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 04. SECTIONS
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 05. GENERAL ARRANGEMENT & SECTIONS
 BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME. STRUCTURES. BALLYMUN 05. LONGITUDINAL SECTION

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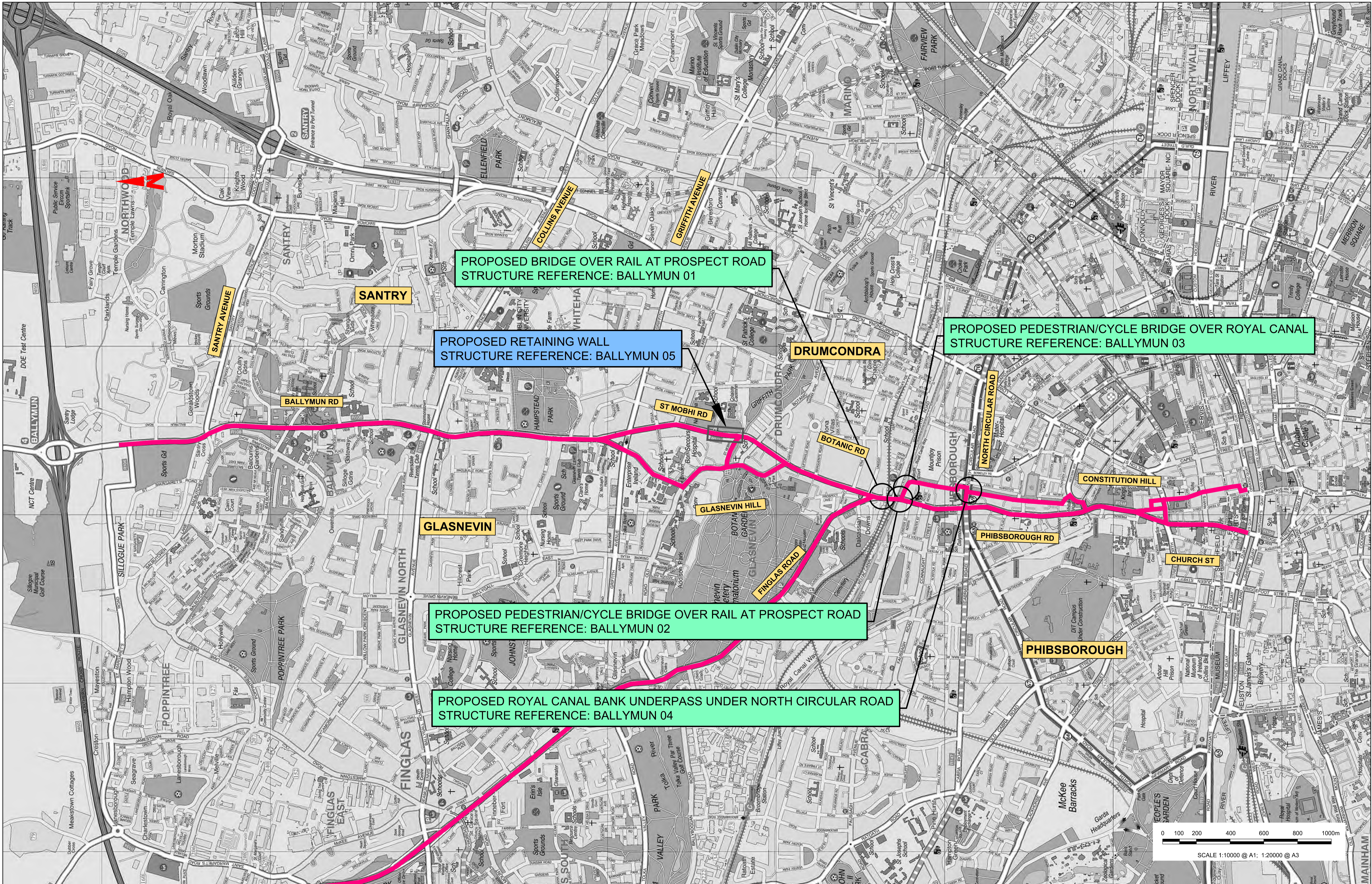
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Rev	Date	Drn	Chk'd	App'd	Description
M01	13/05/2022	JVG	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer ROD ROUGHAN & O'DONOVAN TYPESA		
Date 13/05/2022	Scale N/A	Drawn JVG	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES COVER SHEET			
Drawing File Name BCIDD-ROT-STR_IX-0304_XX_00-DR-SS-0001	Sheet Number 1 of 1	Status A	Rev M01



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Project Ireland 2040
 Building Ireland's Future

Rev	Date	Dm	Chkd	App'd	Description
M01	13/05/2022	JVG	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client: **NTA**
 Údarás Náisiúnta Iompair
 National Transport Authority

Date: 13/05/2022
 Scale: 1:10000 @ A1
 1:20000 @ A3

Project Code: BCIDD
 Originator Code: NTA

Engineering Designer: **IJROD**
 IJROD TVPSA

Drawn: JVG
 Checked: EFD
 Approved: SMG

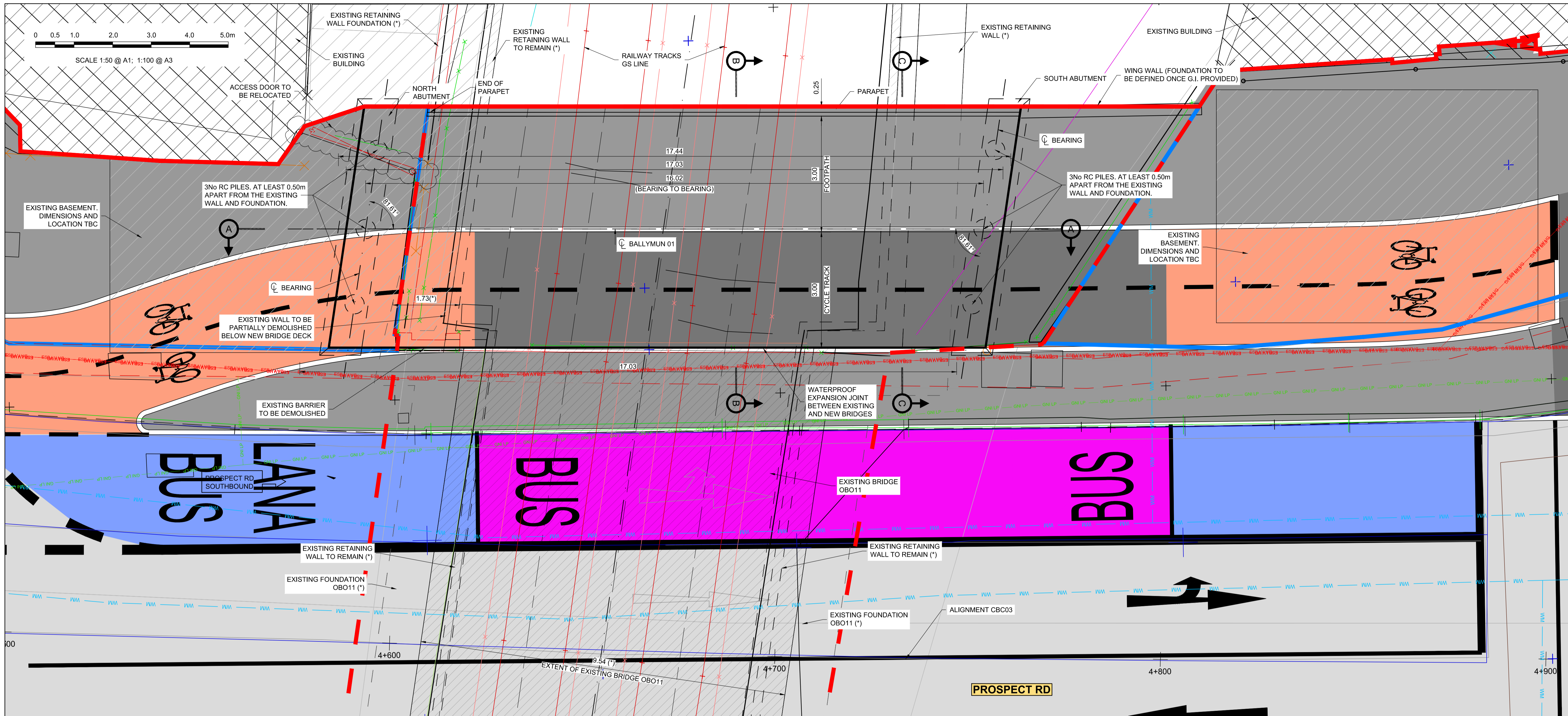
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Programme Title: **BUSCONNECTS DUBLIN**
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title: **CBC 03**
BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME
BRIDGES & RETAINING STRUCTURES
KEY PLAN

Drawing File Name: BCIDD-ROT-STR_KP-0304_XX_00-DR-SS-0001
 Sheet Number: 01 of 01
 Status: A
 Rev: M01

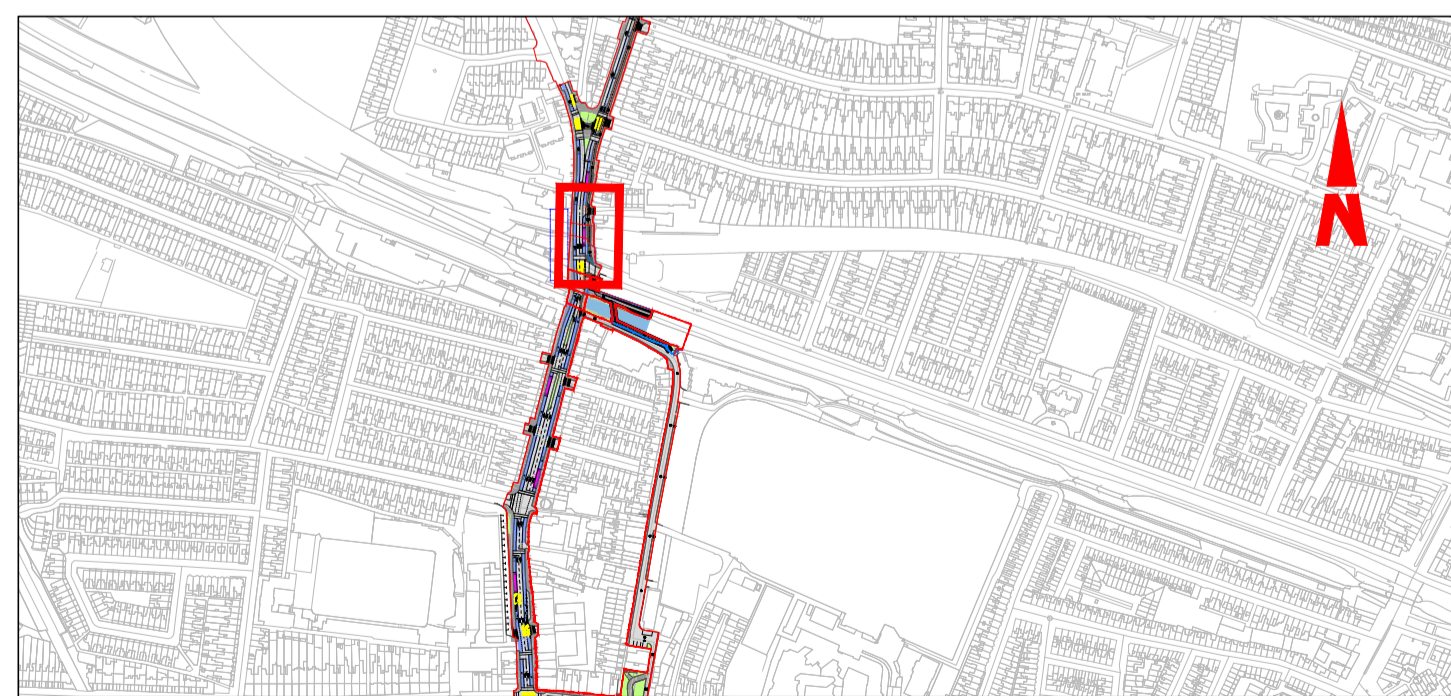
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



GENERAL PLAN
SCALE 1:50

NOTES:

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- ALL BURIED SURFACES TO BE WATERPROOFED IN ACCORDANCE WITH THE TII SPECIFICATION FOR ROAD WORKS.
- FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
- SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034.
- PRECAST BEAM STRENGTH:
 - C45/55 @ TRANSFER
 - C57/70 @ 28 DAYS
- SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.



KEY PLAN

*INFORMATION AND DIMENSIONS DRAWN FROM AVAILABLE DRAWINGS PROVIDED BY IANROD EIRANN.

- GASNEVIN ROAD OVERBRIDGE DRAWINGS (SEPT 1894)
- RENEWAL OF PARAPET CROSSGUNS BRIDGE DRAWINGS (26-OCT-1978)

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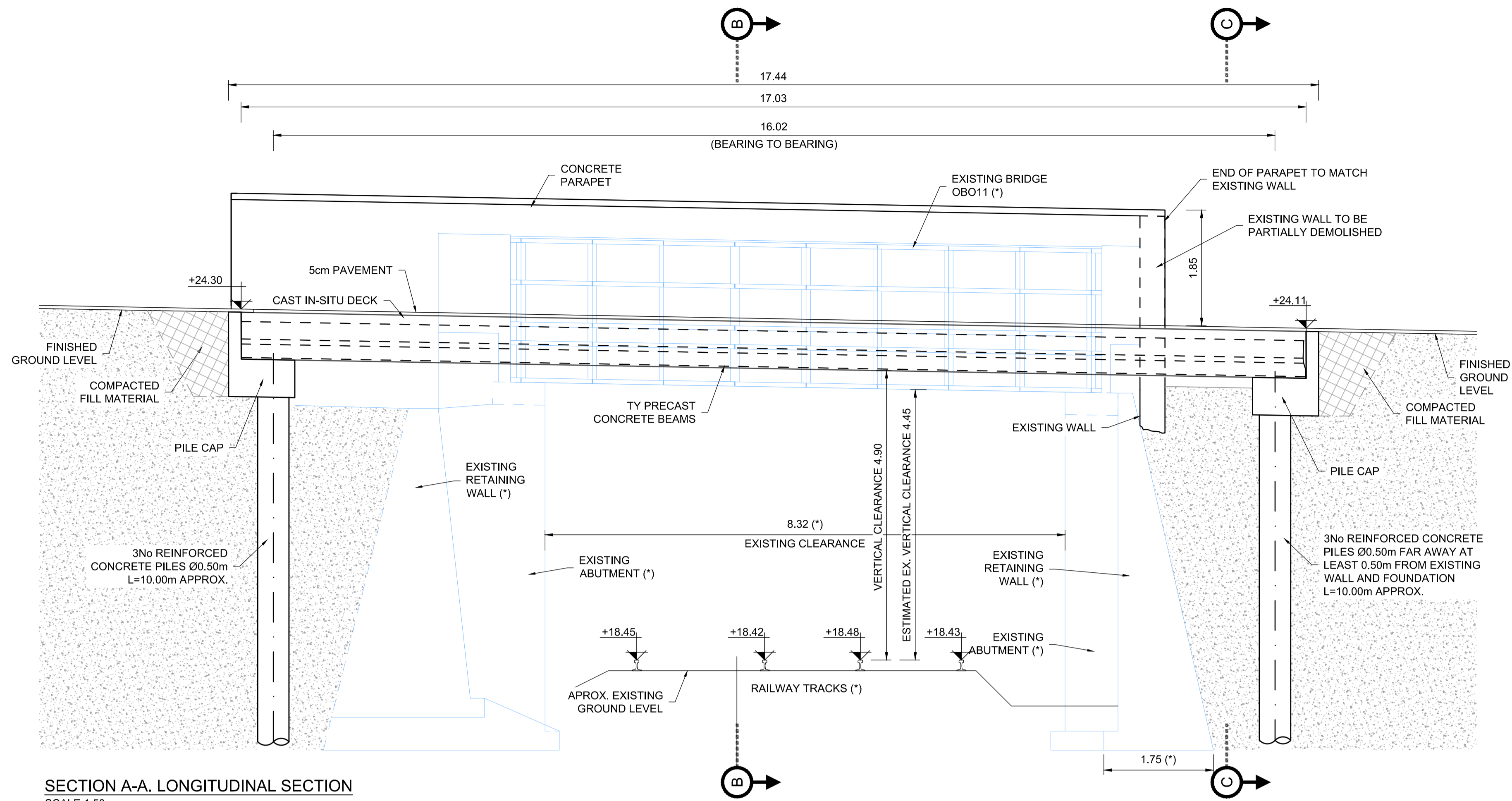


Rev	Date	Drn	Chk'd	App'd	Description
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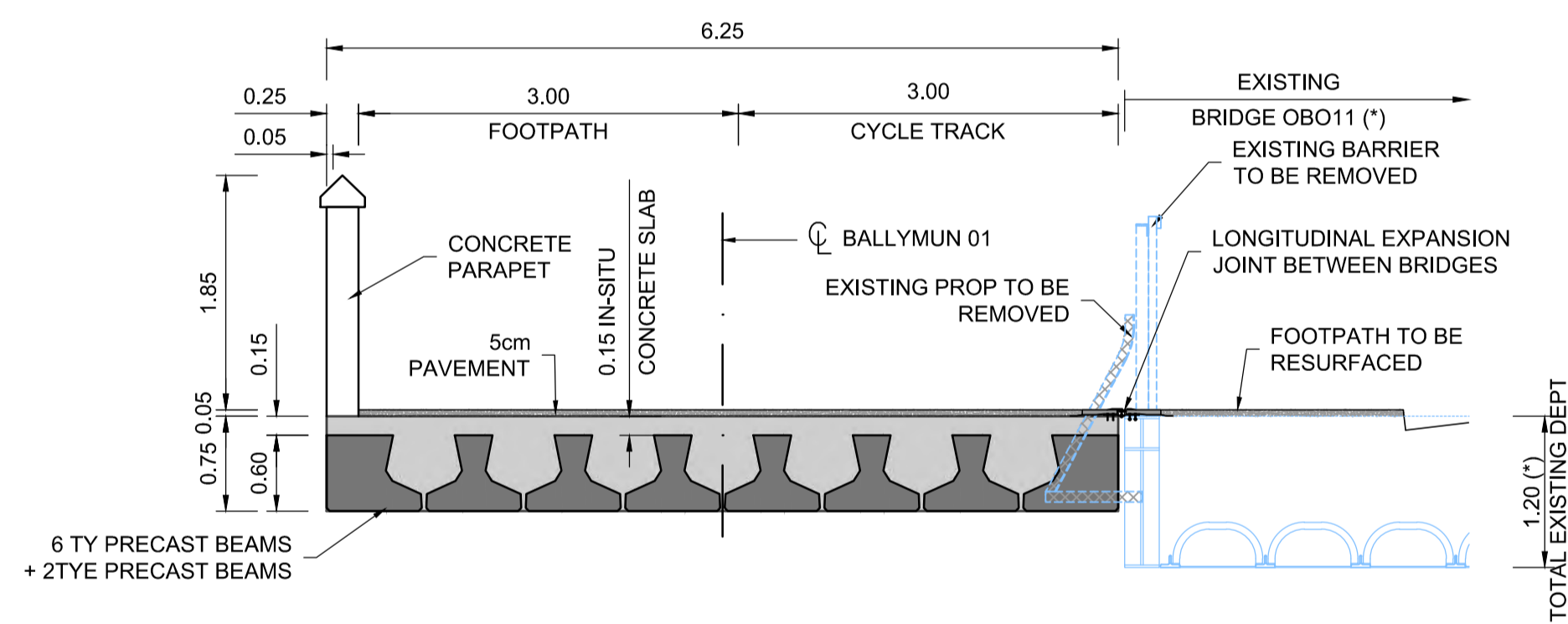
Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer IROD TYPSA		
Date 13/05/2022	Scale 1:50 @ A1 1:100 @ A3	Drawn JVG	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 01. GENERAL ARRANGEMENT				
Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0001	Sheet Number 01 of 02	Status A	Rev M01	

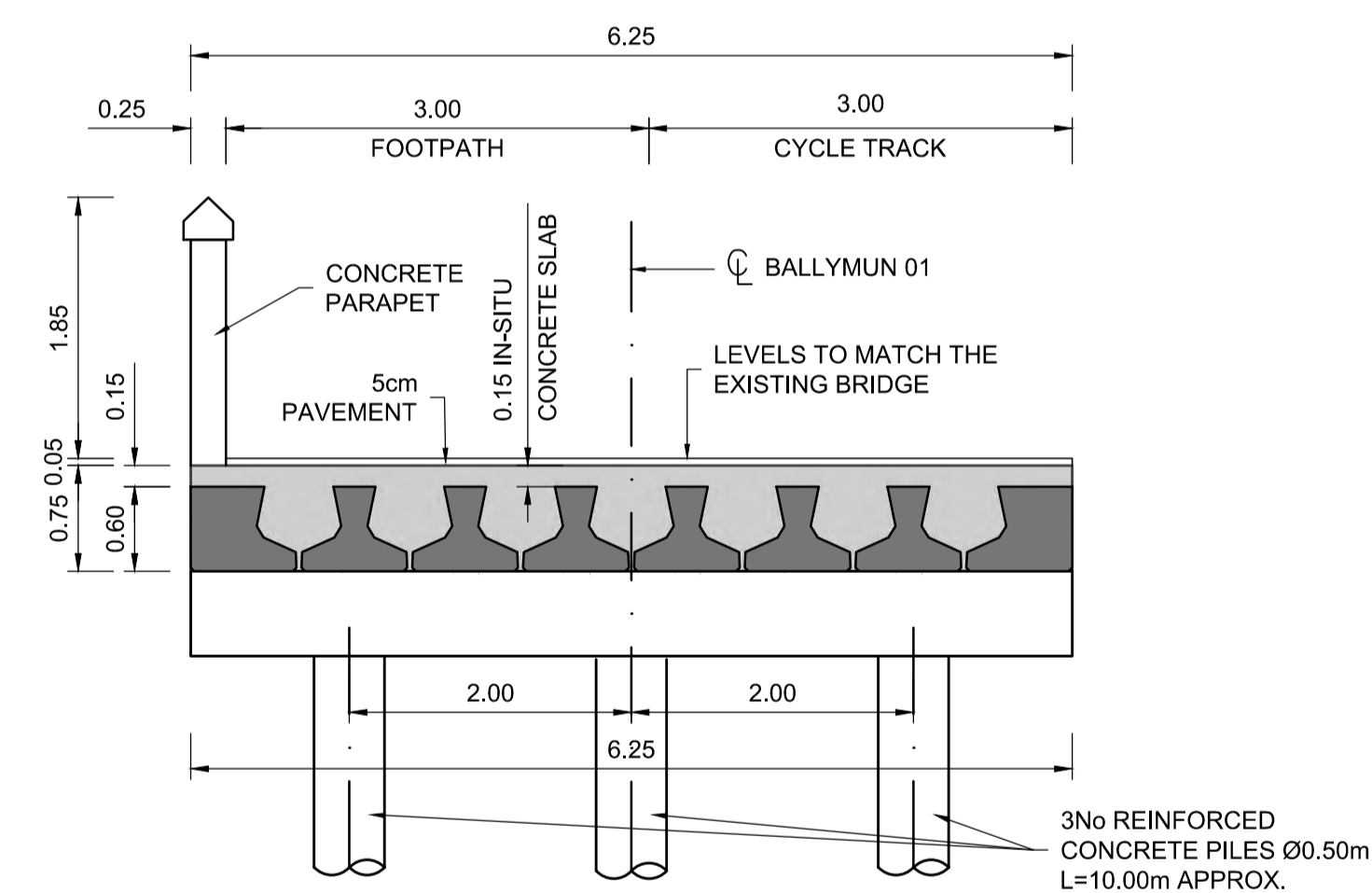
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SECTION A-A. LONGITUDINAL SECTION
SCALE 1:50



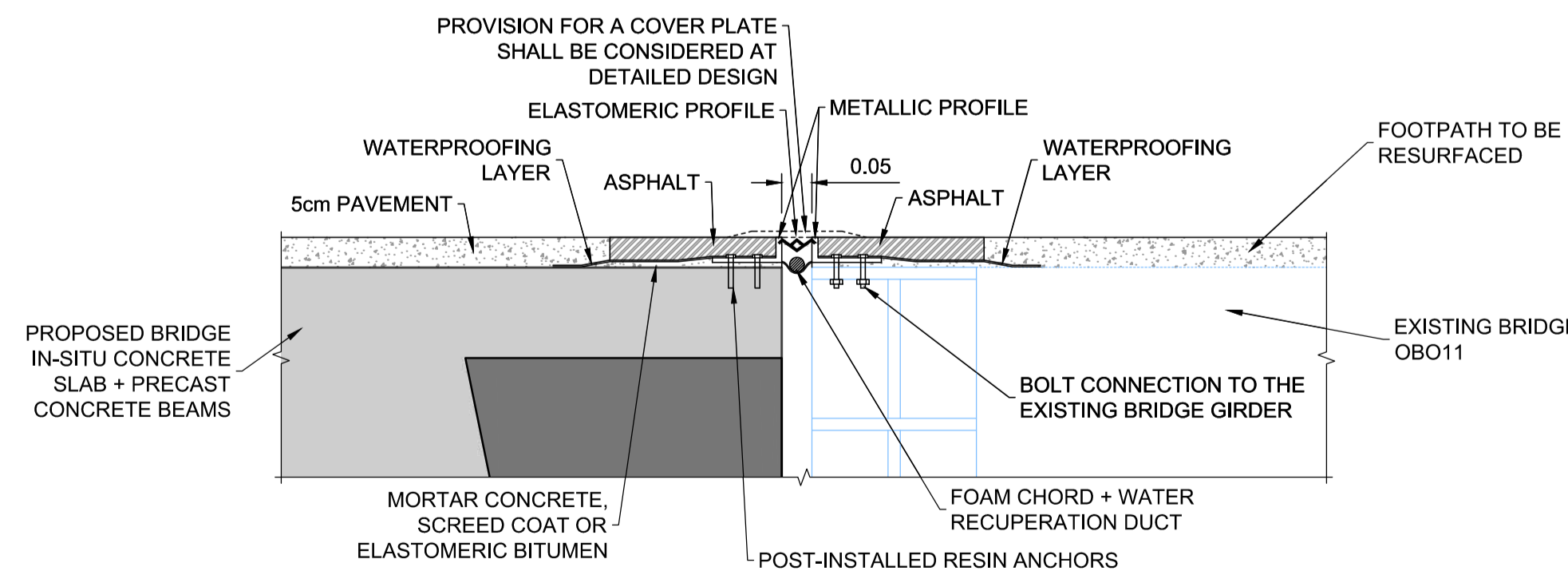
SECTION B-B. TYPICAL CROSS SECTION
SCALE 1:50



SECTION C-C. TYPICAL CROSS SECTION AT ABUTMENTS
SCALE 1:50

NOTES:

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- SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034.
- PRECAST BEAM STRENGTH:
 - C45/55 @ TRANSFER
 - C57/70 @ 28 DAYS
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DETAIL JOINT
SCALE 1:10

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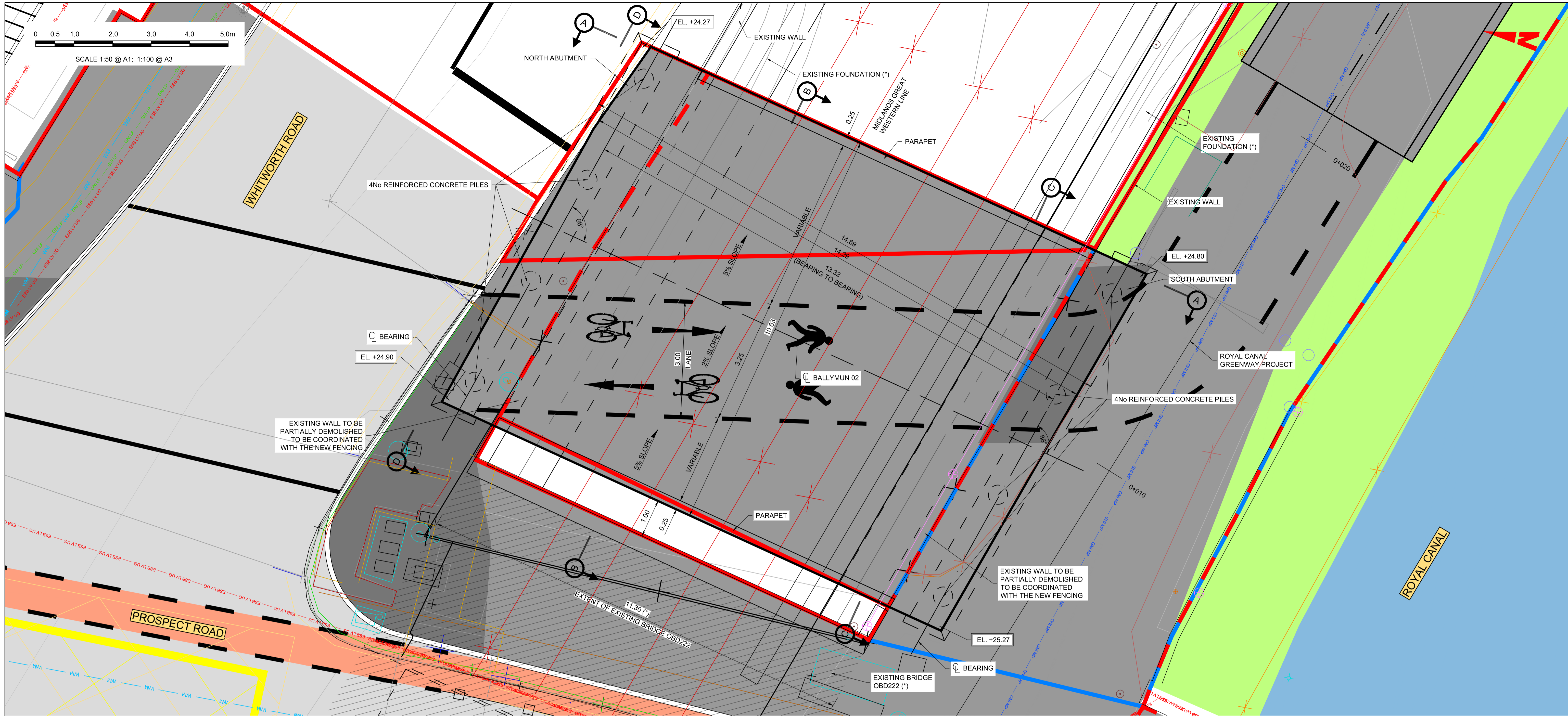


Rev	Date	Drn	Chk'd	App'd	Description
M01	13/05/2022	JVG	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
IROD
TYPSA

Programme Title		Drawing Title	
BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS		BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 01. SECTIONS	
Date	Scale	Drawn	Checked
13/05/2022	1:50 @ A1 1:100 @ A3	JVG	EFD
Approved	SMG	Sheet Number	02 of 02
Project Code	BCIDD	Status	A
Originator Code	ROT	Rev	M01

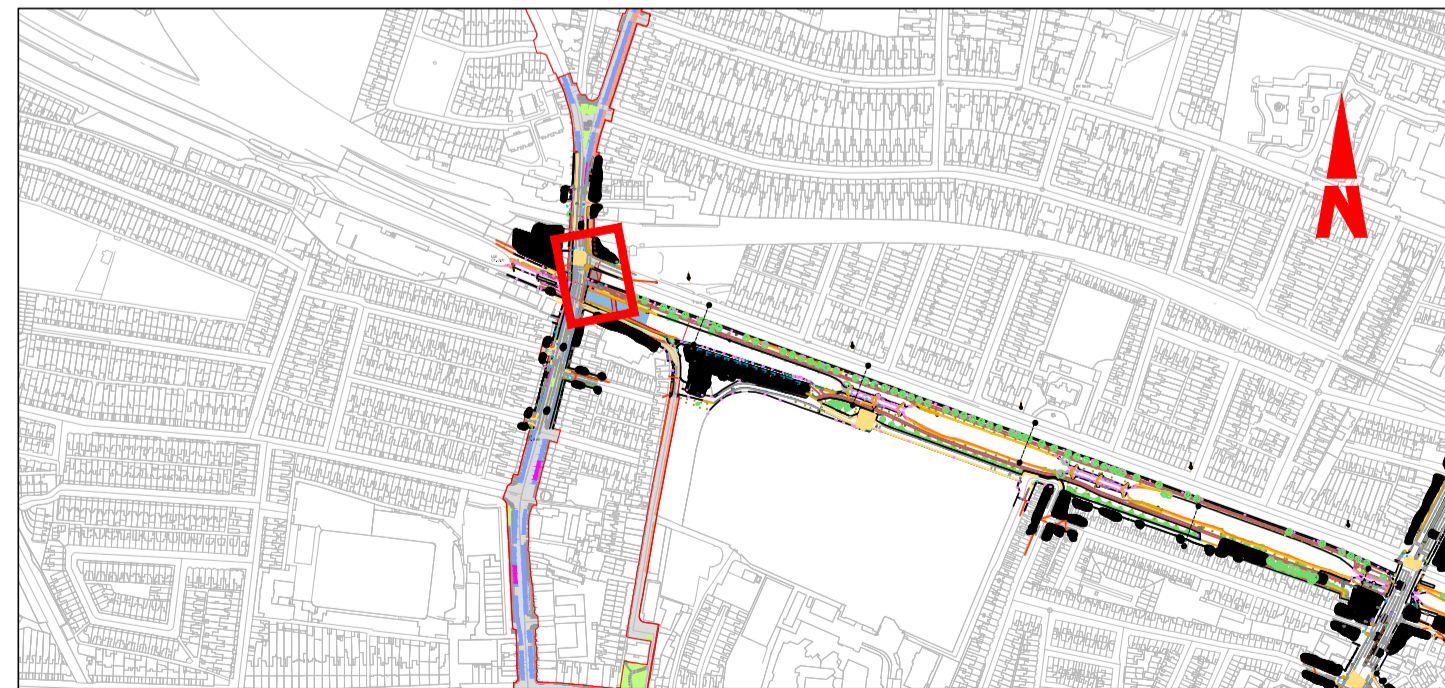


GENERAL PLAN
SCALE 1:50

*INFORMATION AND DIMENSIONS DRAWN FROM AVAILABLE DRAWINGS PROVIDED BY IANROD EIRANN.
- OB222 CROSS GUNDS BRIDGE DECK EXTENSION REPLACEMENT (SEPT 11)

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- FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
- SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034 .
- PRECAST BEAM STRENGTH:
- C32/40 @ TRANSFER
- C50/60 @ 28 DAYS
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KEY PLAN

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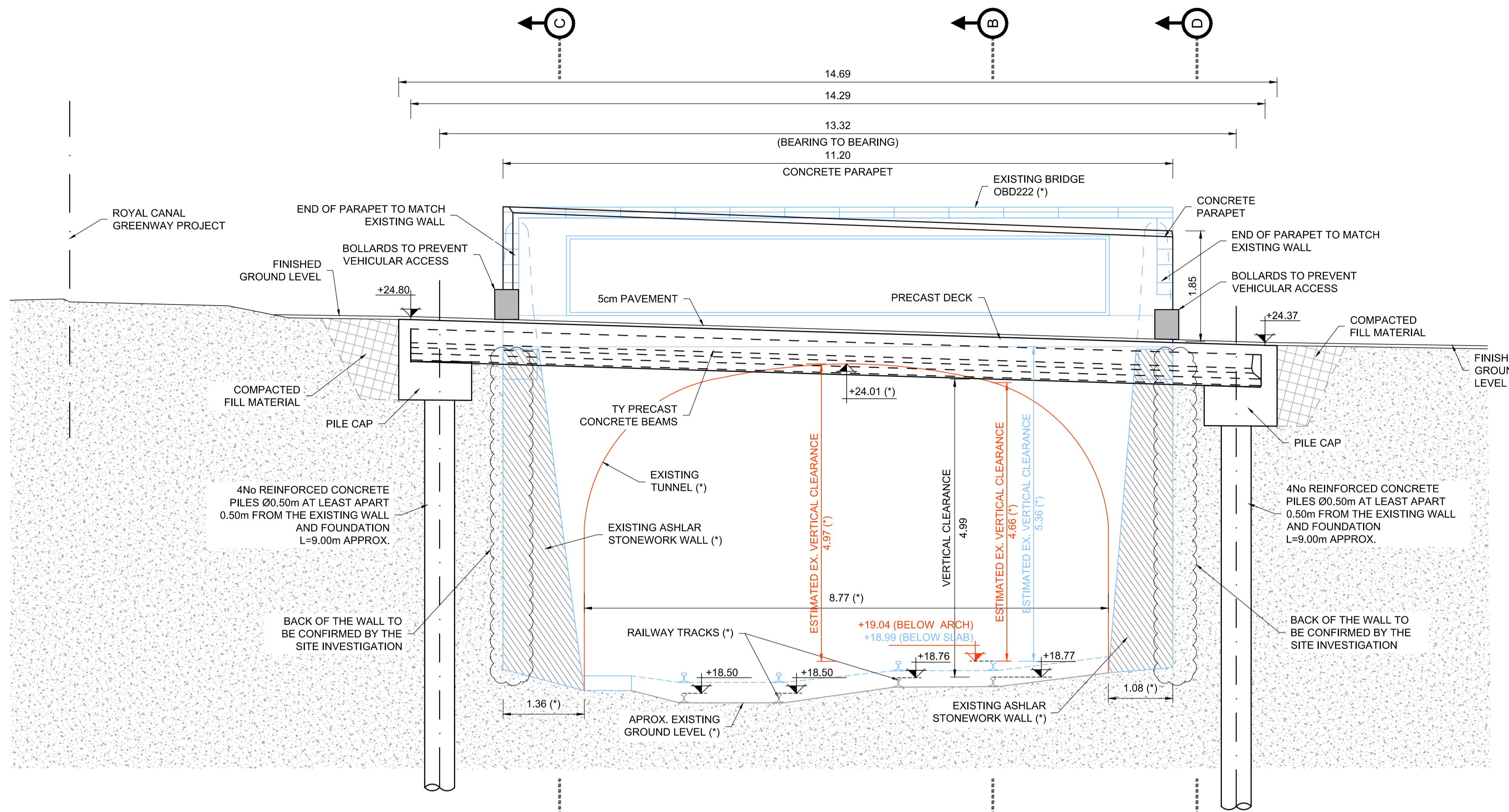


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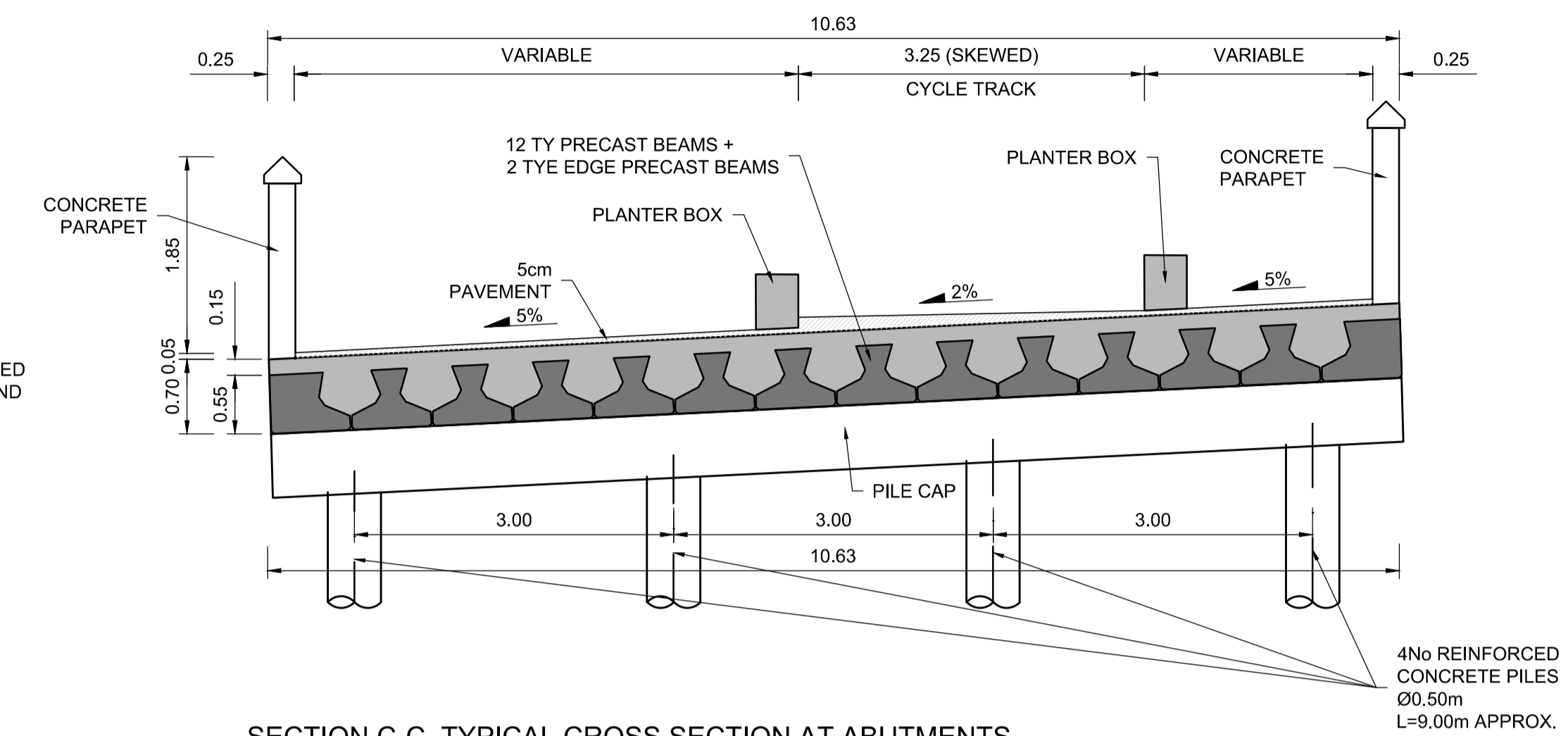
Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer IROD TYPSA		
Date 13/05/2022	Scale 1:50 @ A1 1:100 @ A3	Drawn JVG	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 02. GENERAL ARRANGEMENT				
Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0003	Sheet Number 01 of 02	Status A	Rev M01	

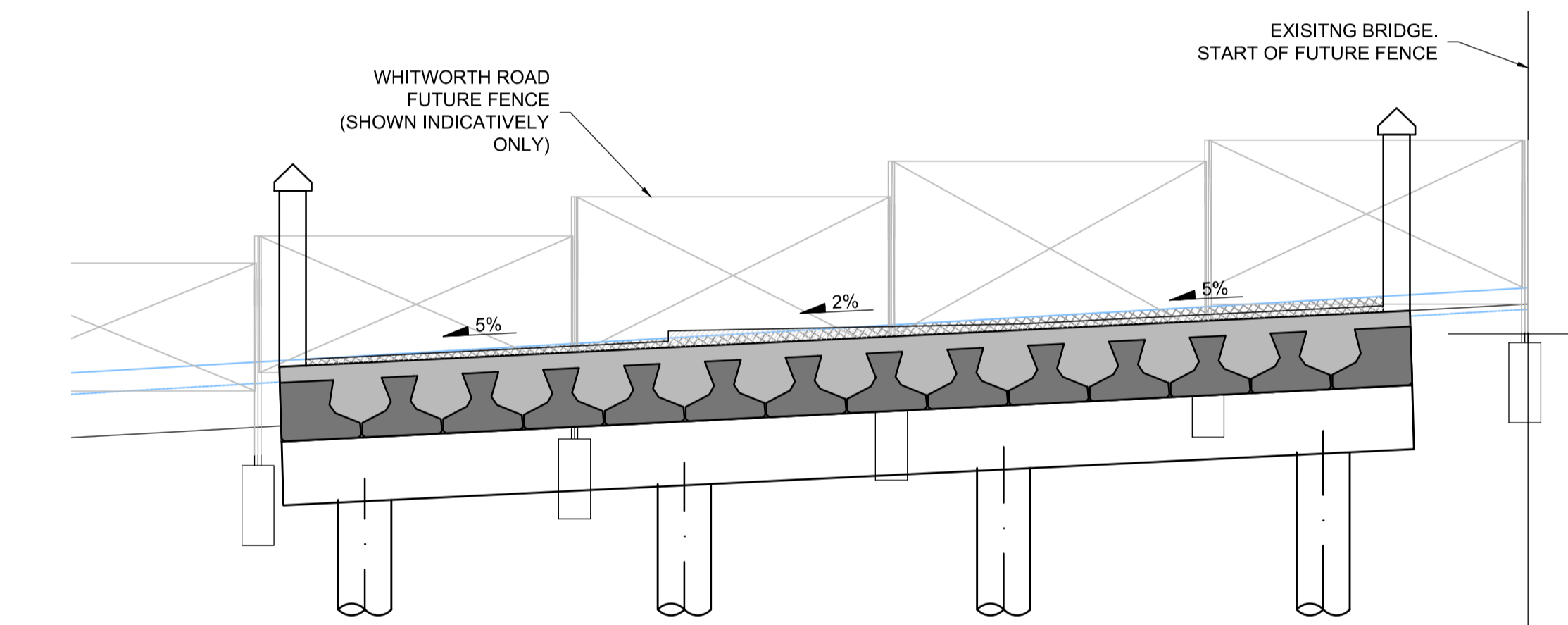
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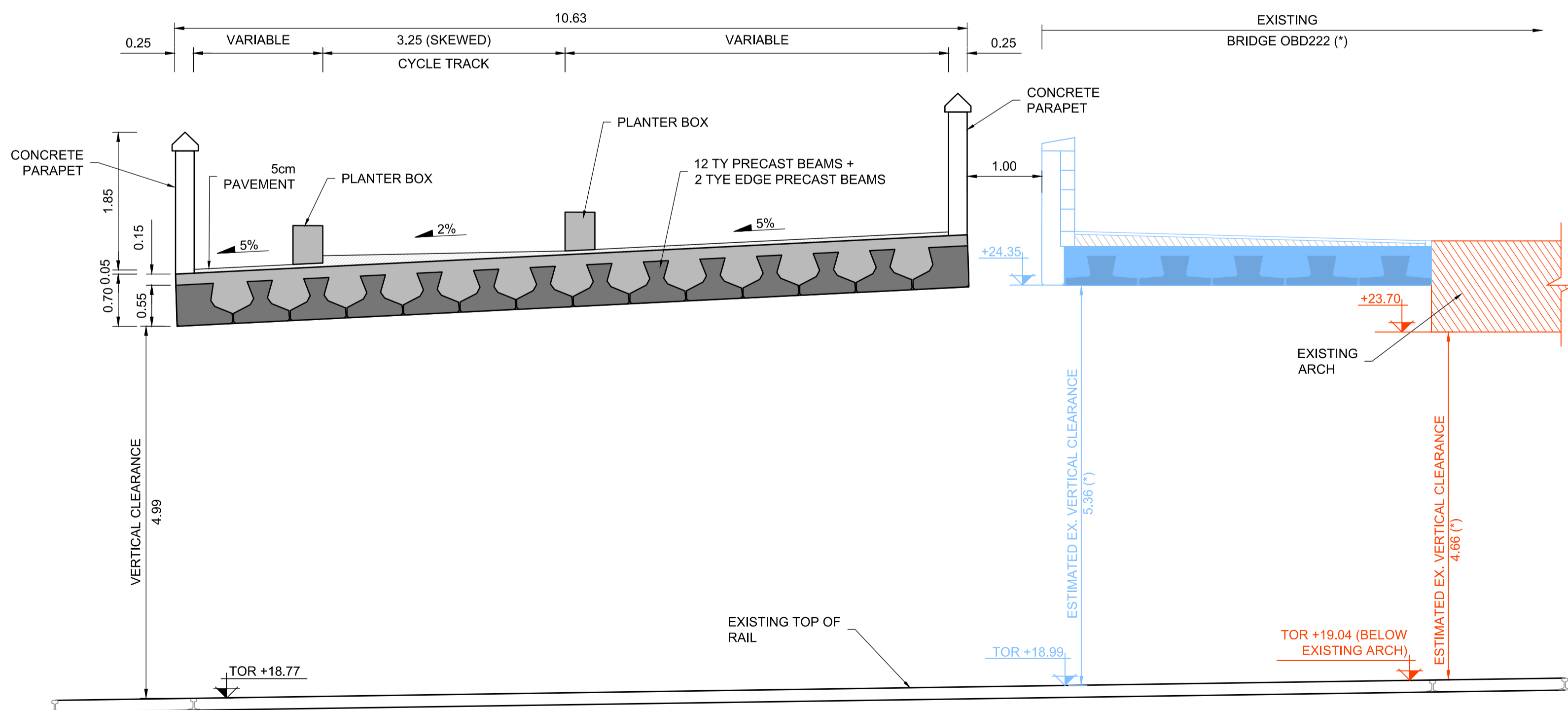
SECTION A-A. LONGITUDINAL SECTION
SCALE 1:50



SECTION C-C. TYPICAL CROSS SECTION AT ABUTMENTS
SCALE 1:50



SECTION D-D. TYPICAL CROSS SECTION SHOWING PROPOSED FENCE
SCALE 1:50



SECTION B-B. TYPICAL CROSS SECTION
SCALE 1:50

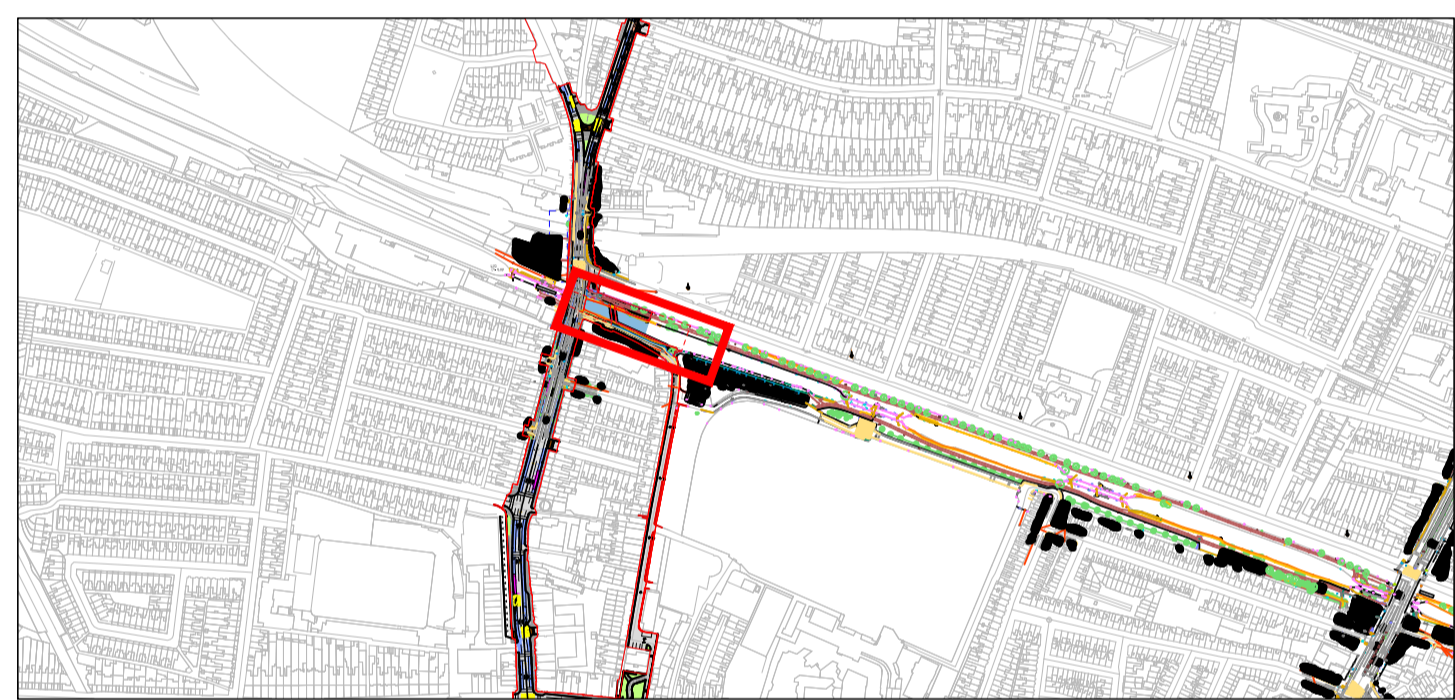
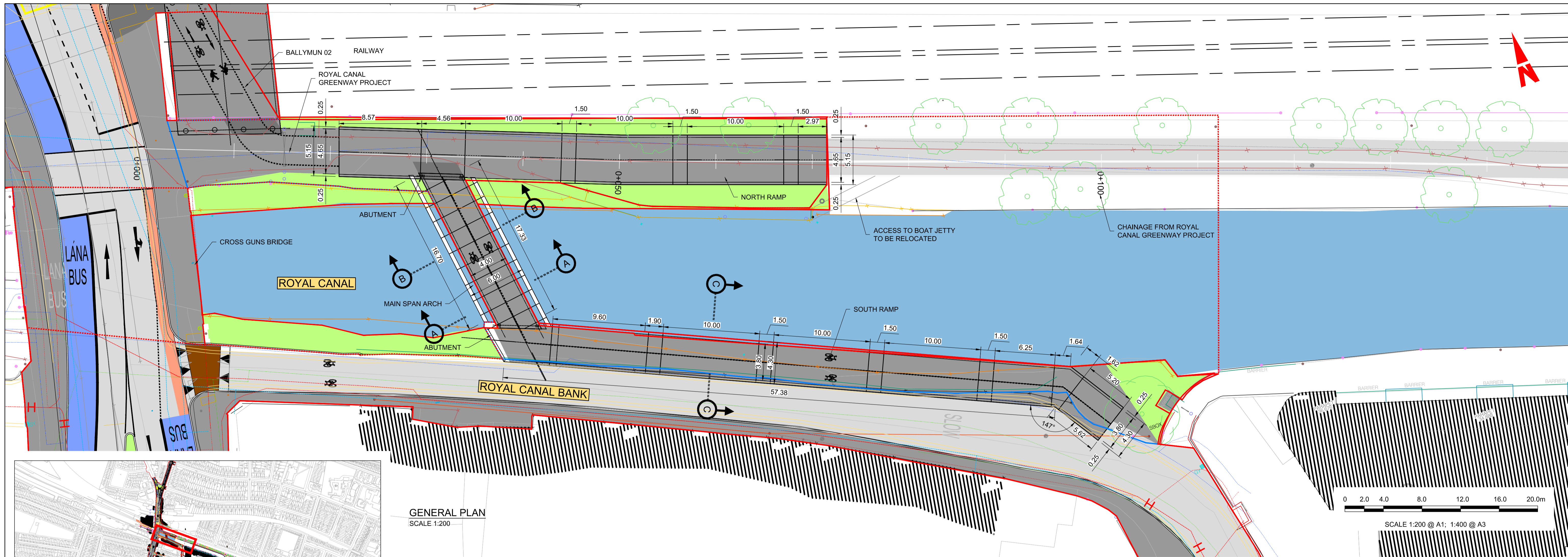
- NOTES:**
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 4. ALL BURIED SURFACES TO BE WATERPROOFED IN ACCORDANCE WITH THE TII SPECIFICATION FOR ROAD WORKS.
 5. FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
 6. SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034 .
 7. PRECAST BEAM STRENGTH:
- C32/40 @ TRANSFER
- C50/60 @ 28 DAYS
 8. SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.

*INFORMATION AND DIMENSIONS DRAWN FROM AVAILABLE DRAWINGS PROVIDED BY IANROD EIRANN.
- OBD222 CROSS GUNDS BRIDGE DECK EXTENSION REPLACEMENT (SEPT 11)

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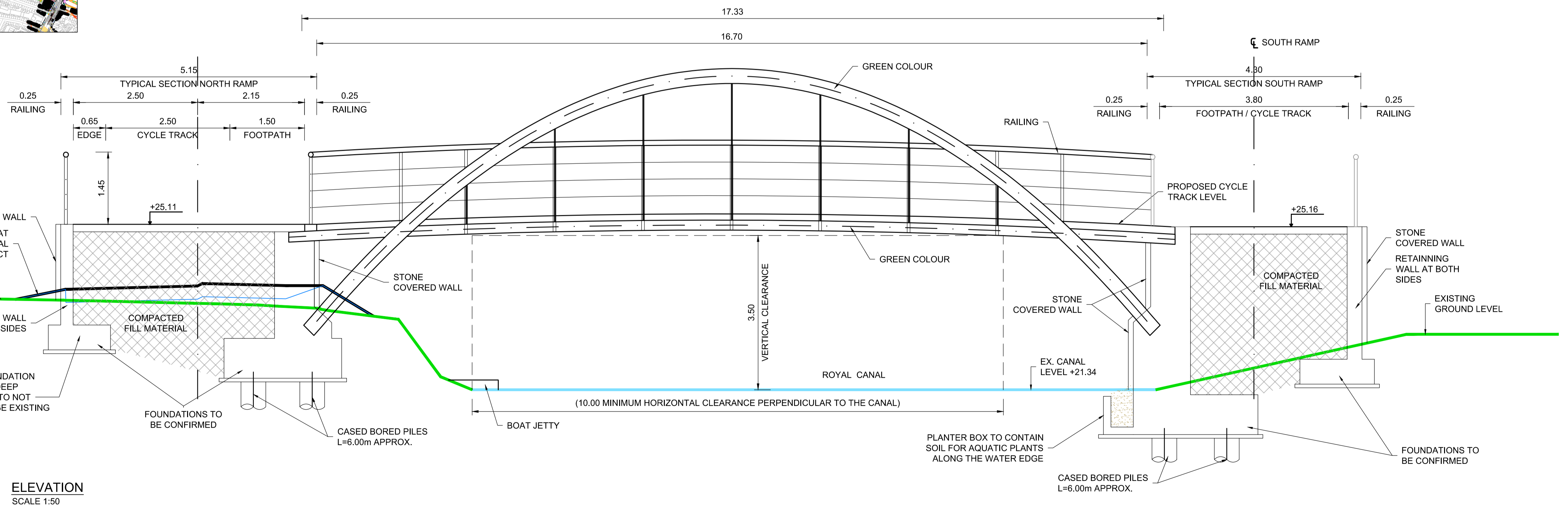
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<p>Date 13/05/2022</p> <p>Scale 1:50 @ A1 1:100 @ A3</p> <p>Project Code BCIDD</p> <p>Originator Code ROT</p> <p>QMS Code</p>		<p>Drawn JVG</p> <p>Checked EFD</p> <p>Approved SMG</p>			<p>Drawing Title</p> <p>BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME</p> <p>STRUCTURES</p> <p>BALLYMUN 02. SECTIONS</p>			<p>Drawing File Name</p> <p>BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0004</p> <p>Sheet Number 02 of 02</p> <p>Status A</p> <p>Rev M01</p>			

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GENERAL PLAN
SCALE 1:200

KEY PLAN



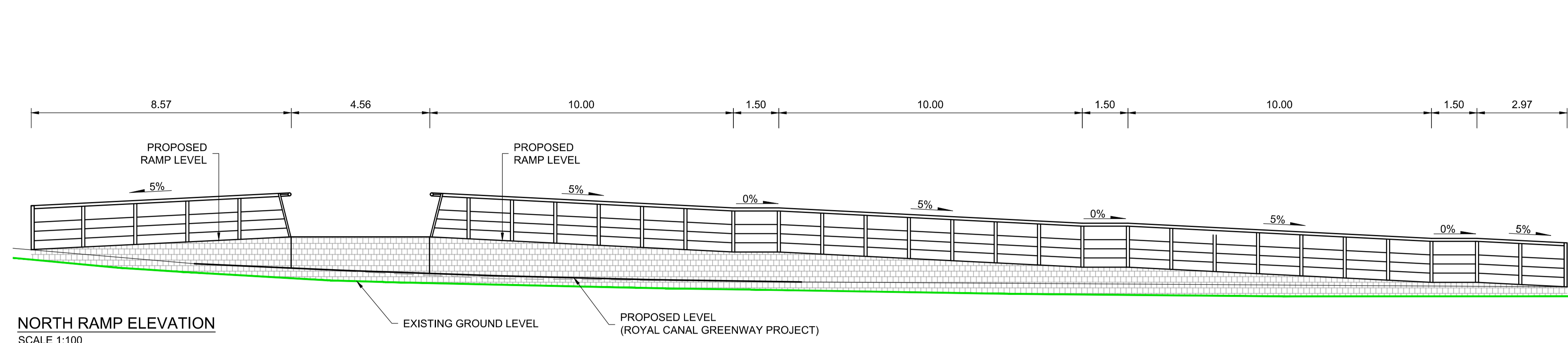
ELEVATION
SCALE 1:50

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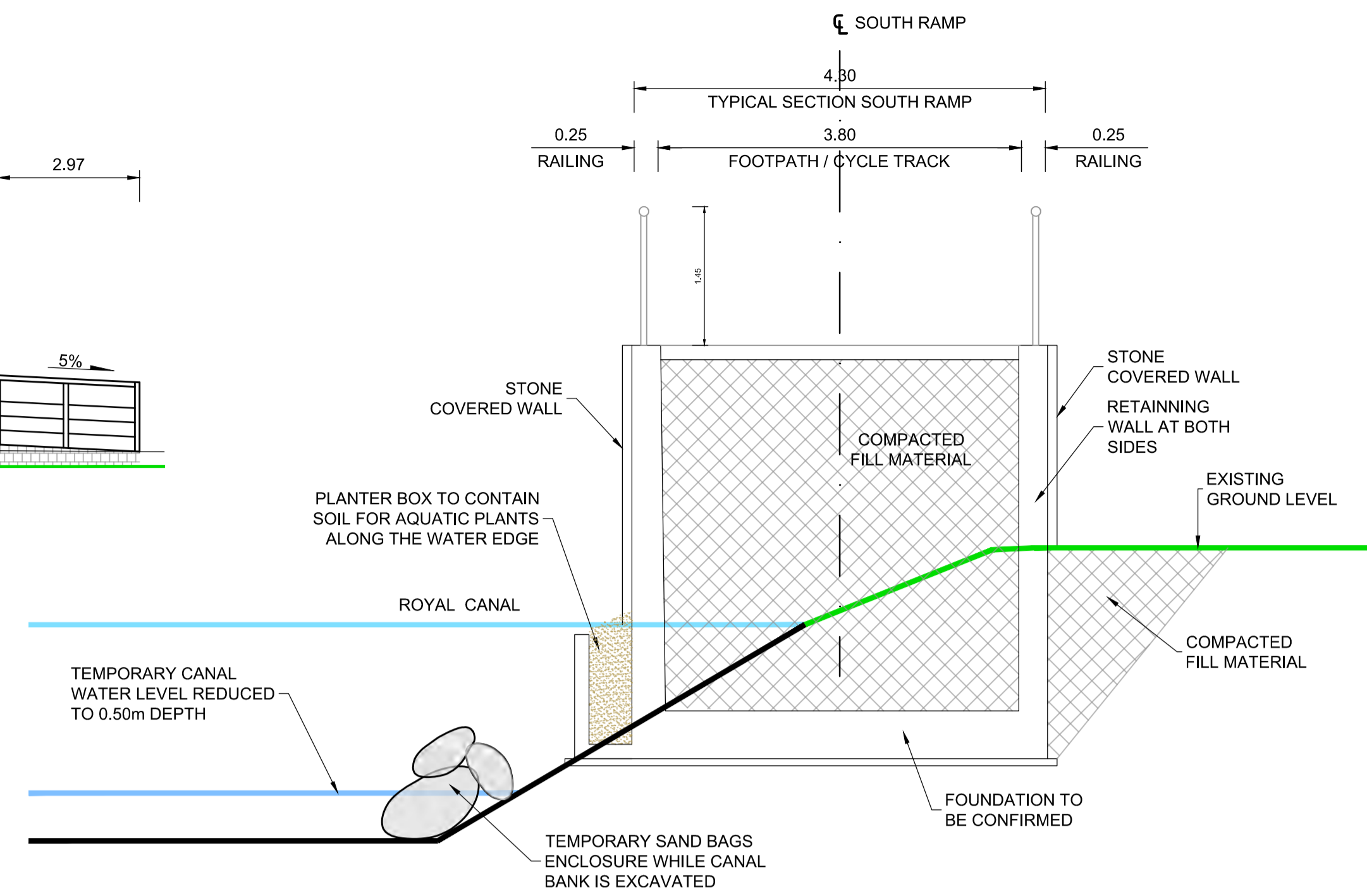
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7. SAFETY BARRIER IN ACCORDANCE WITH DN-REG-03034
8. STRUCTURAL STEEL ELEMENTS:
- STEEL S355
9. SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.

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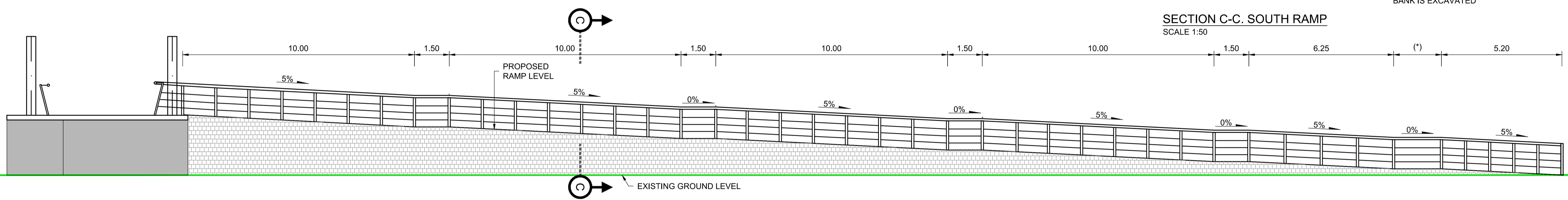
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<p>Date 13/05/2022</p> <p>Scale AS SHOWN</p> <p>Project Code BCIDD</p> <p>Originator Code ROT</p>		<p>Drawn JVG</p> <p>Checked EFD</p> <p>Approved SMG</p>			<p>Drawing Title</p> <p>BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME</p> <p>STRUCTURES</p> <p>BALLYMUN 03. GENERAL ARRANGEMENT</p>			<p>Drawing File Name</p> <p>BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0005</p>			
<p>DO NOT SCALE USE FIGURED DIMENSIONS ONLY</p>		<p>Sheet Number 01 of 02</p> <p>Status A</p> <p>Rev M01</p>									



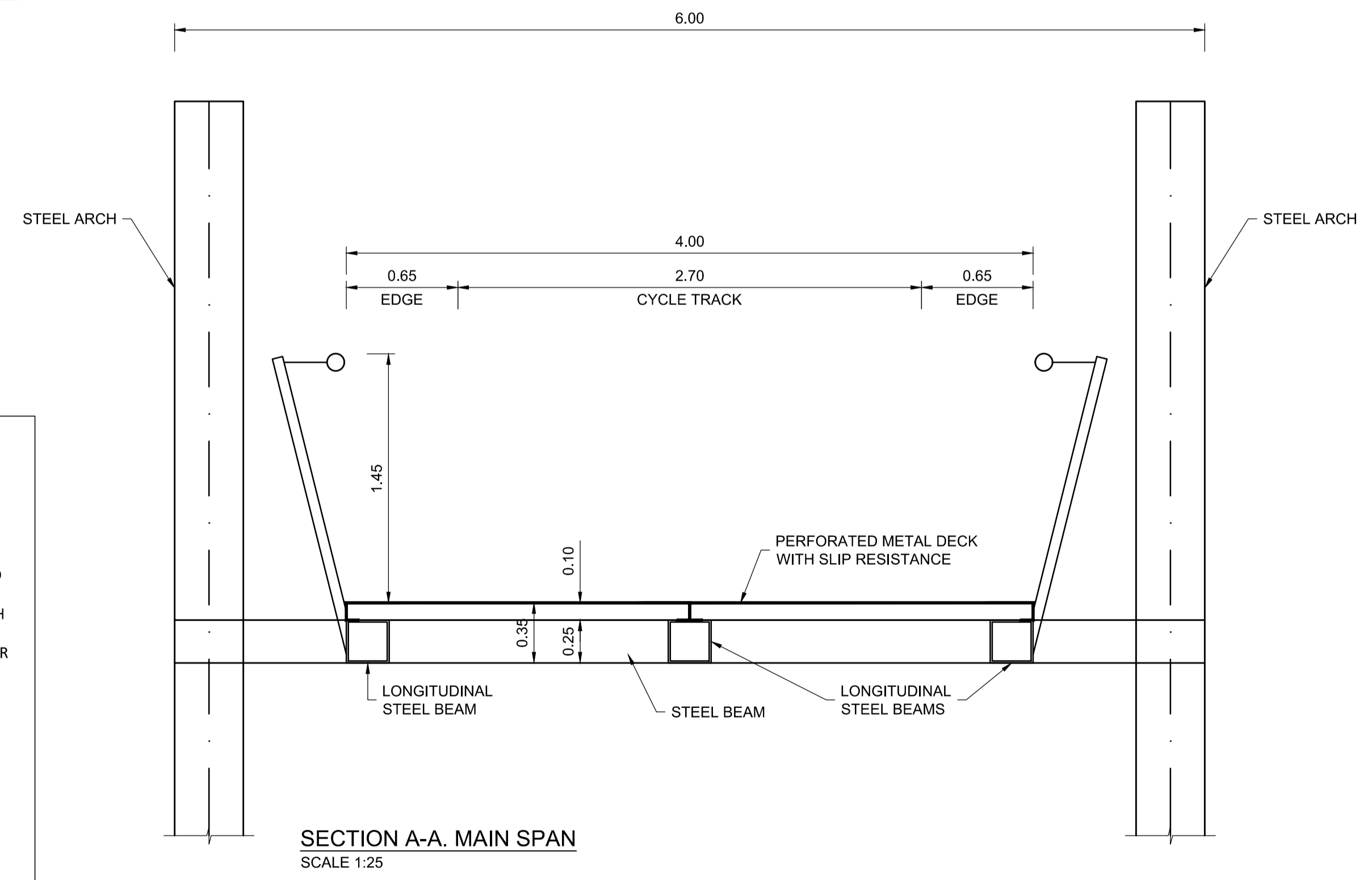
NORTH RAMP ELEVATION
SCALE 1:100



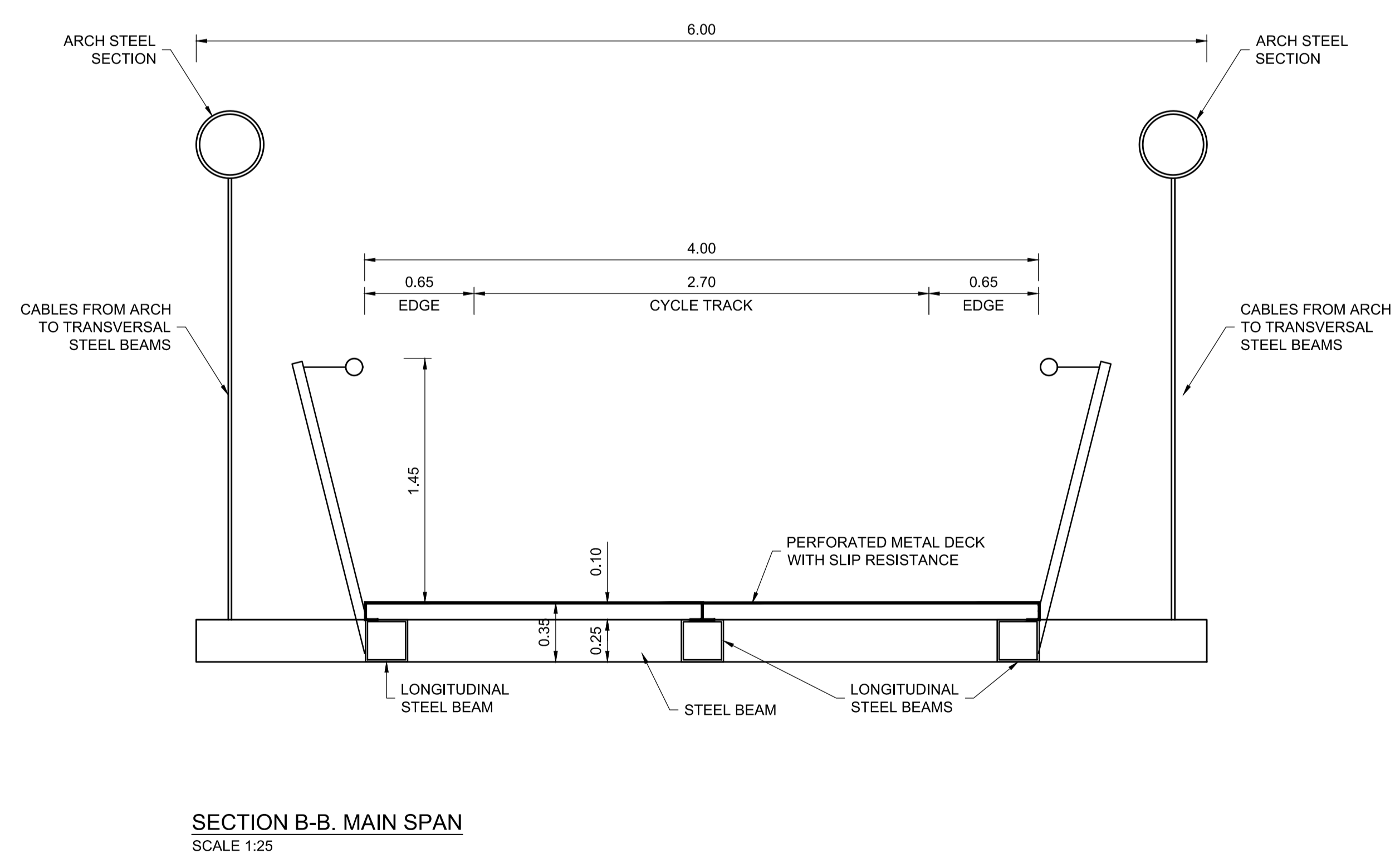
SECTION C-C. SOUTH RAMP
SCALE 1:50



SOUTH RAMP ELEVATION
SCALE 1:100



SECTION A-A. MAIN SPAN
SCALE 1:25



SECTION B-B. MAIN SPAN
SCALE 1:25

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Building Ireland's Future

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NTA
Údarás Náisiúnta Iompair
National Transport Authority

Engineering Designer
I-ROD
TYPSA

Date 13/05/2022
Scale AS SHOWN
Project Code BCIDD
Originator Code ROT

Drawn JVG
Checked EFD
Approved SMG

QMS Code

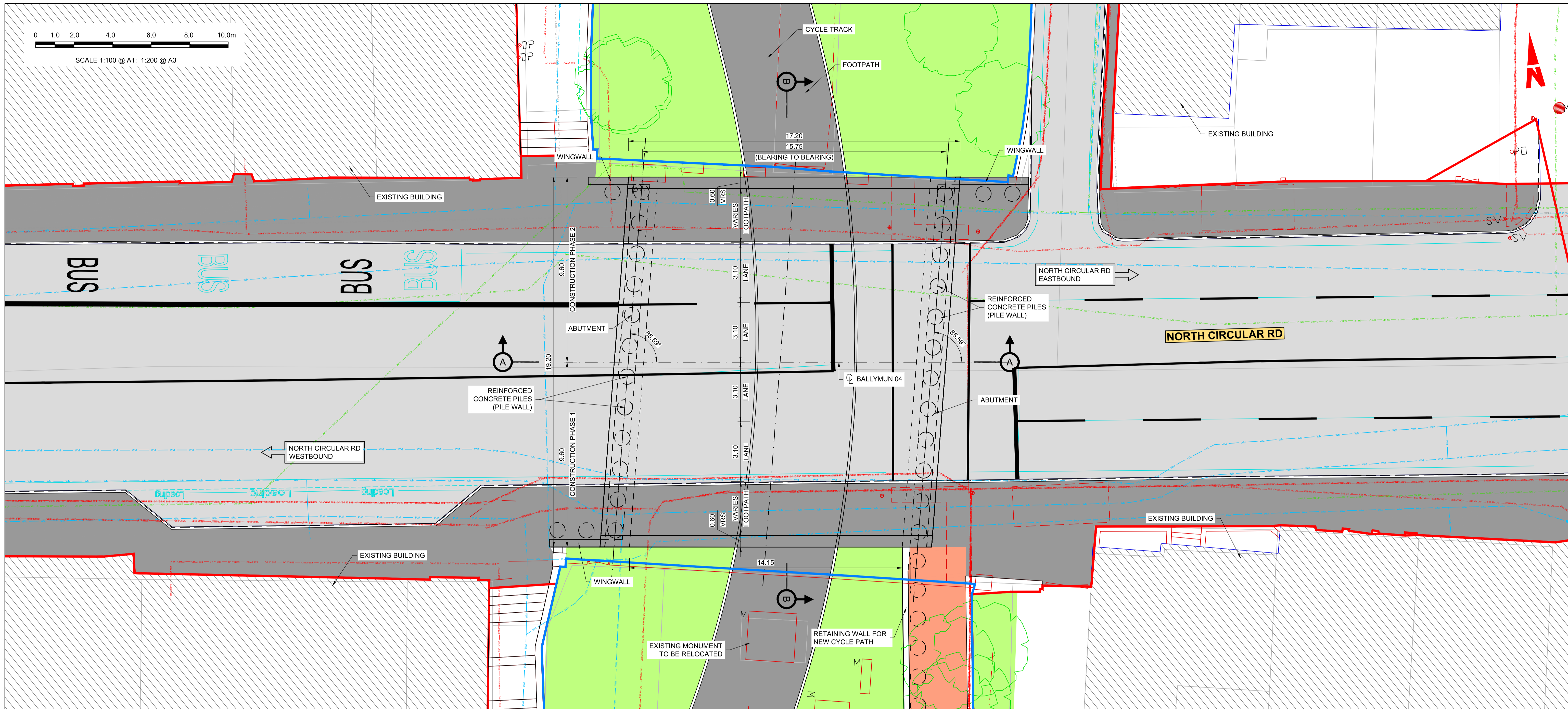
Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME
STRUCTURES
BALLYMUN 03. SECTIONS

Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0006
Sheet Number 02 of 02
Status A
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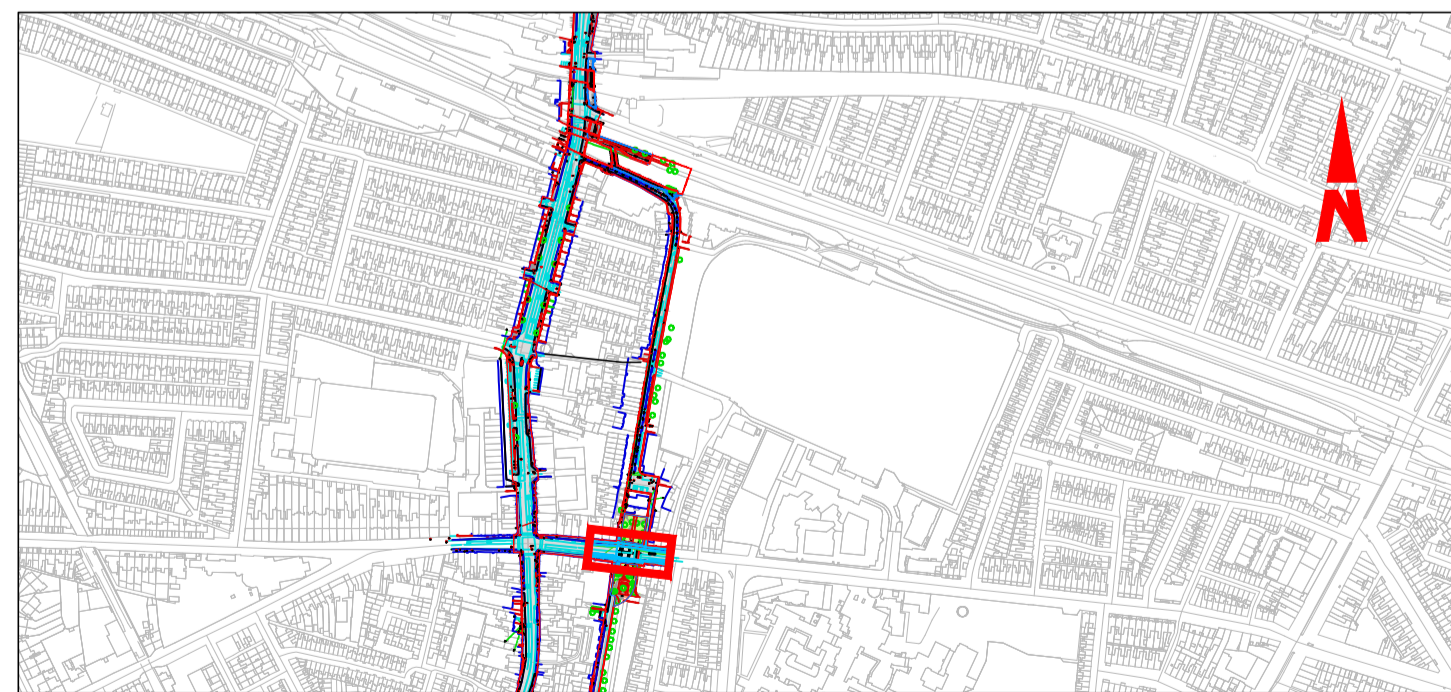
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GENERAL PLAN
SCALE 1:100

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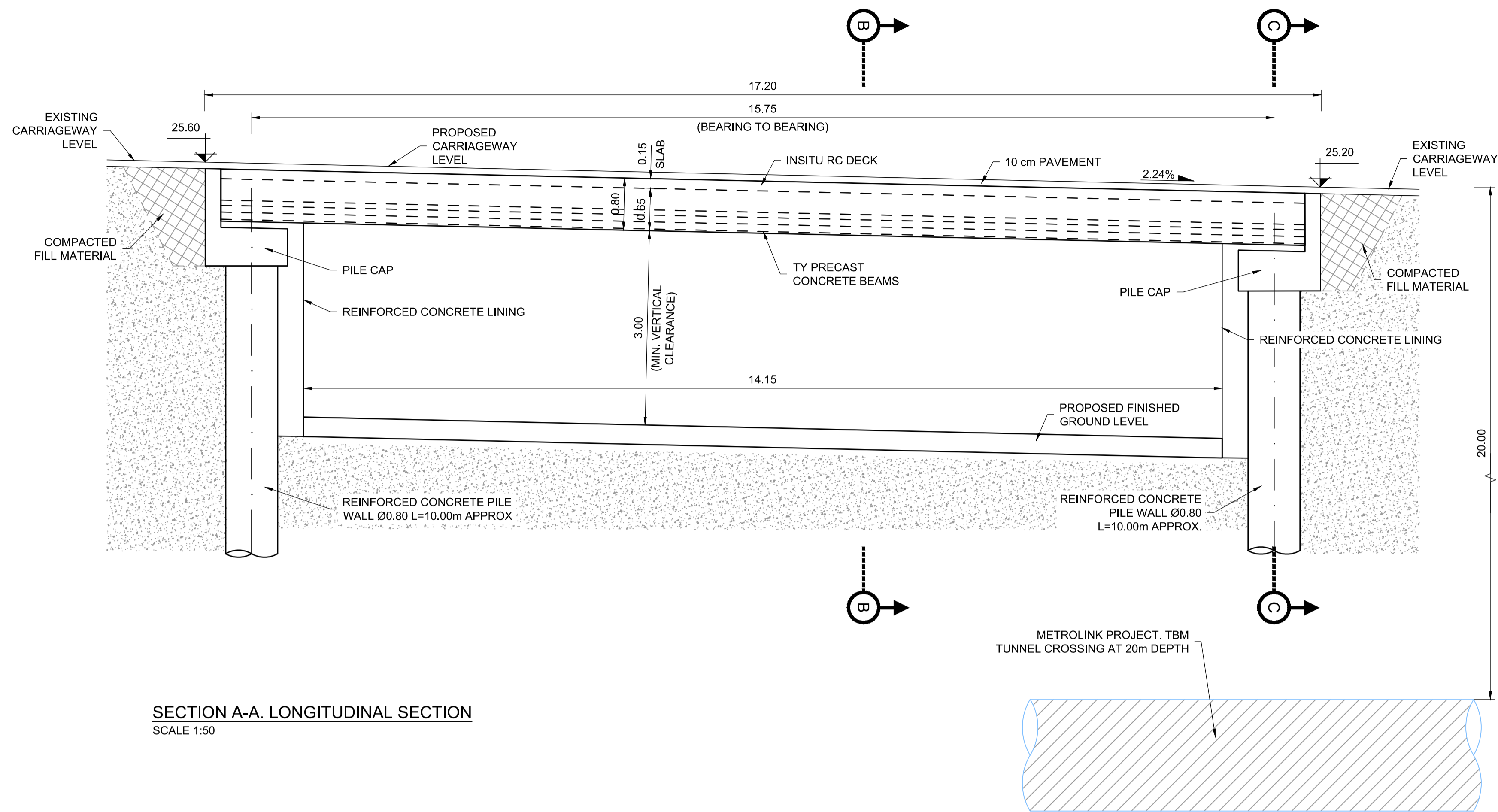
Rev	Date	Drn	Chk'd	App'd	Description
M01	13/05/2022	JVG	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer IROD TYPSA		
Date 13/05/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn JVG	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

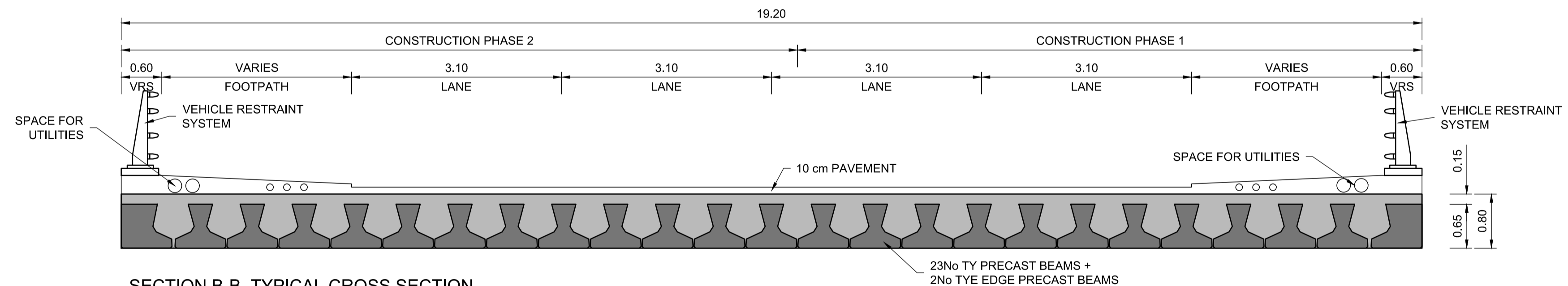
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Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 04. GENERAL ARRANGEMENT				
Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0007	Sheet Number 01 of 02	Status A	Rev M01	

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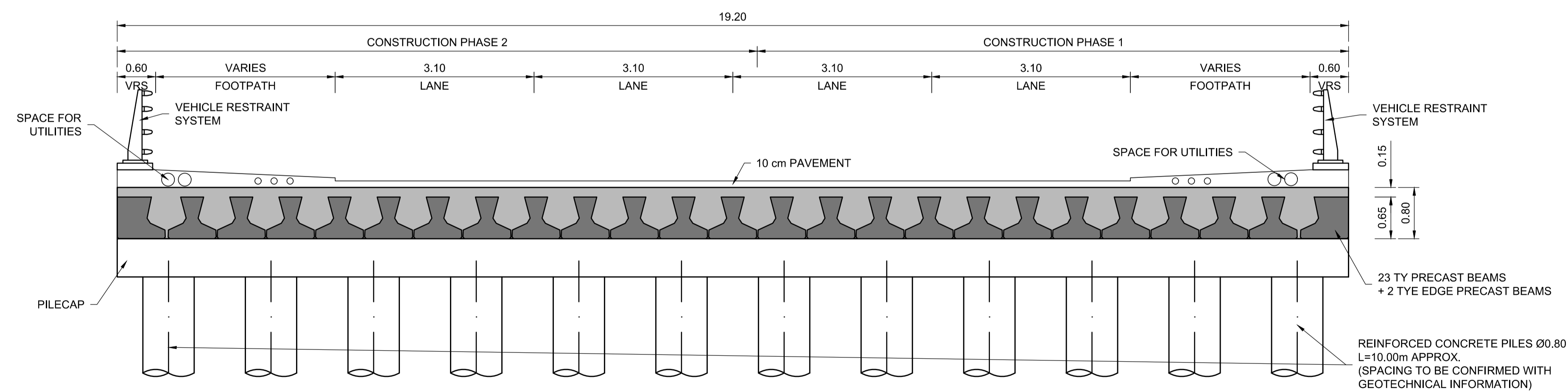
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SECTION A-A. LONGITUDINAL SECTION
SCALE 1:50



SECTION B-B. TYPICAL CROSS SECTION
SCALE 1:50



SECTION C-C. TYPICAL CROSS SECTION AT ABUTMENTS
SCALE 1:50

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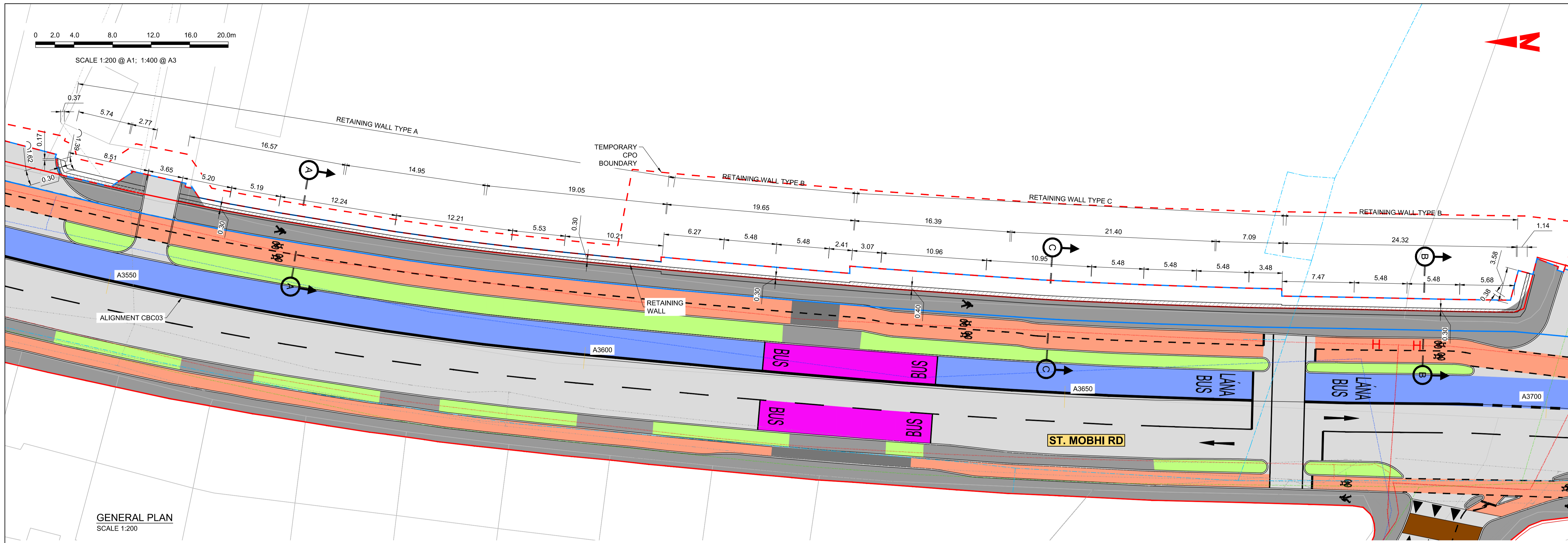


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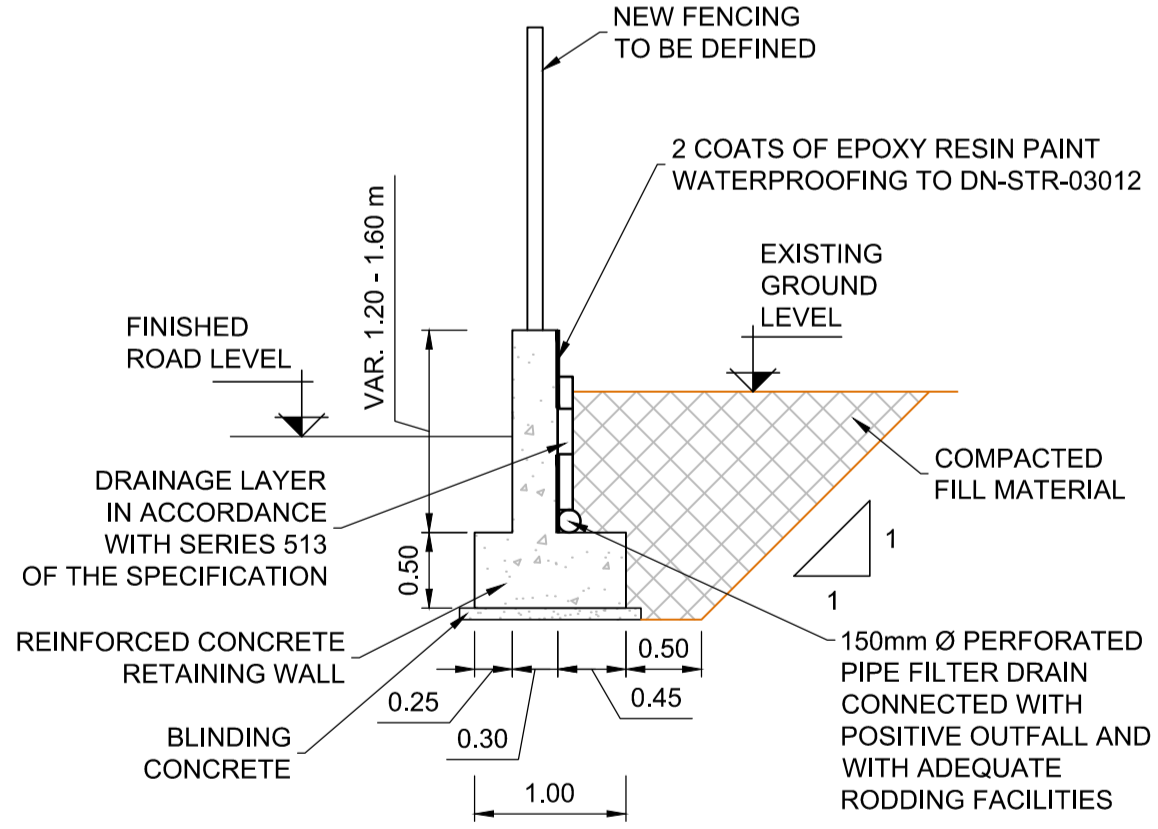
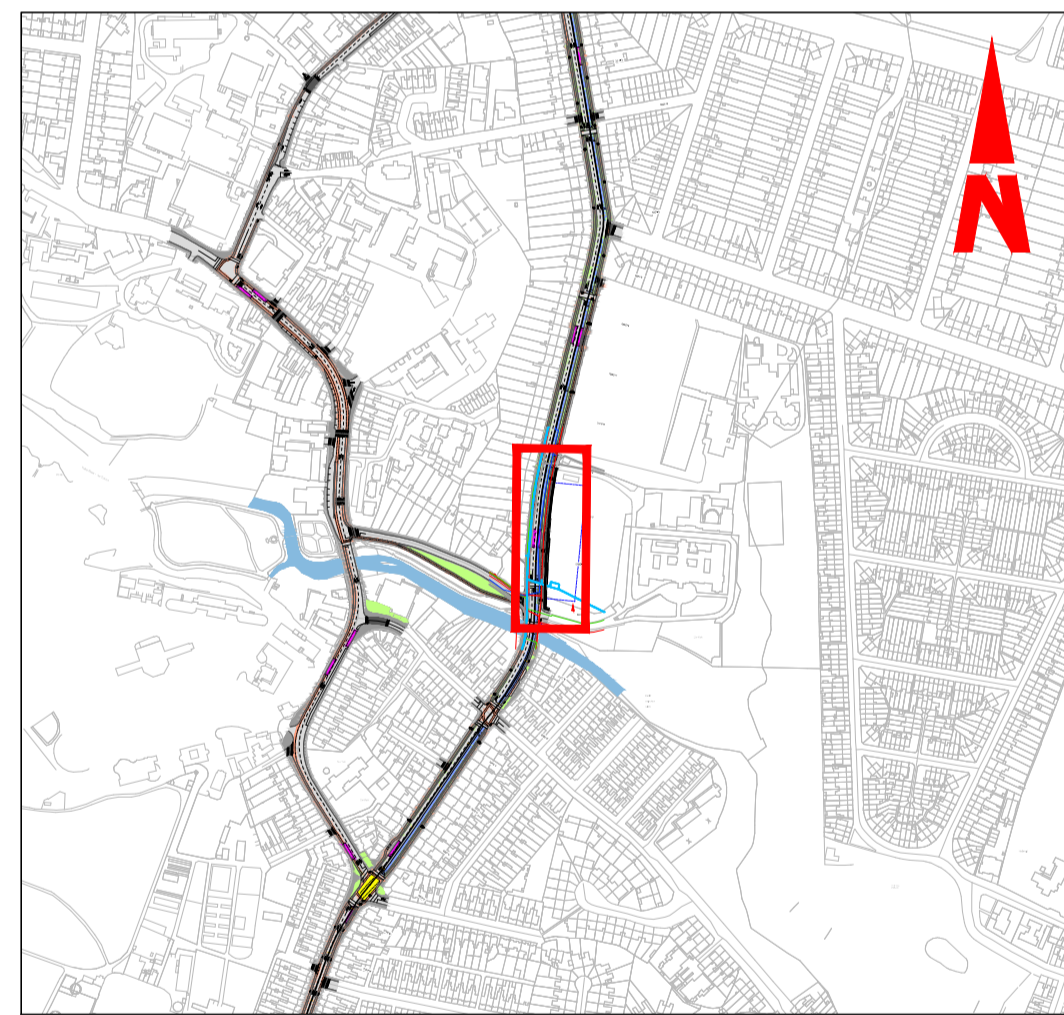
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Date 13/05/2022	Scale 1:50 @ A1 1:100 @ A3	Drawn JVG	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 04. SECTIONS				
Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0008	Sheet Number 02 of 02	Status A	Rev M01	

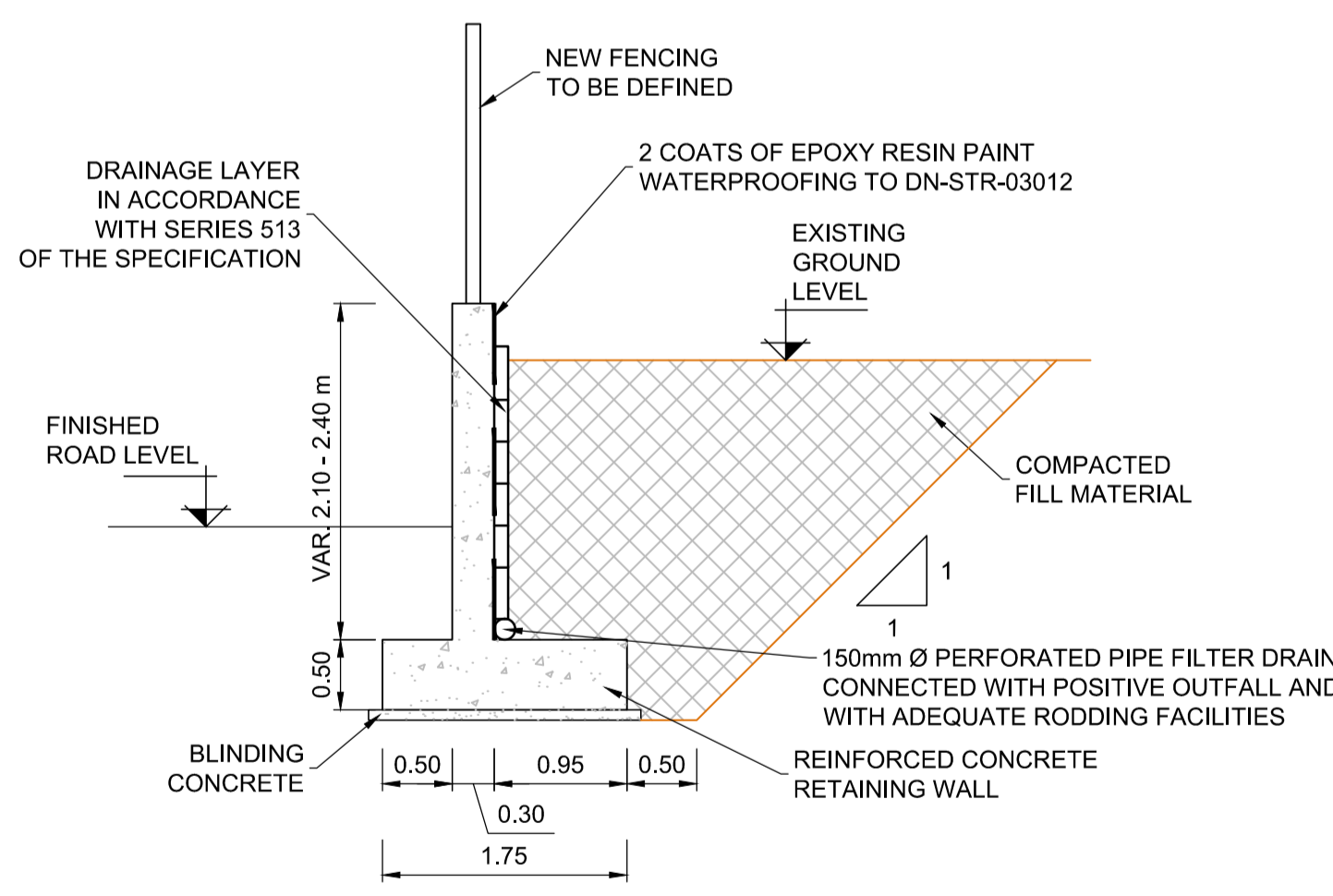
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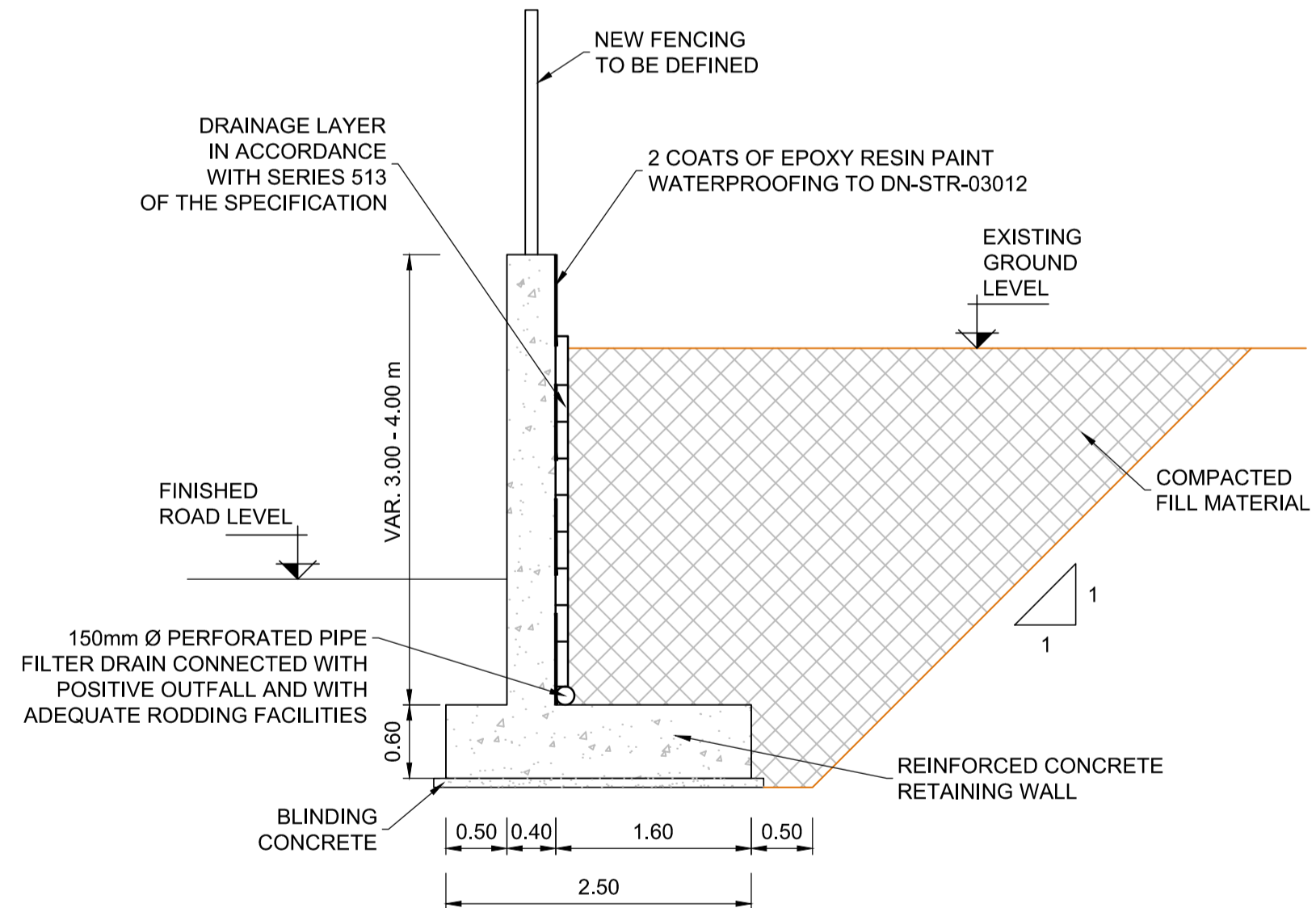
GENERAL PLAN
SCALE 1:200



RETAINING WALL TYPE A
SCALE 1:50



RETAINING WALL TYPE B
SCALE 1:50



RETAINING WALL TYPE C
SCALE 1:50

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*INFORMATION AND DIMENSIONS DRAWN FROM AVAILABLE DRAWINGS PROVIDED BY IANROD EIRANN.
- GASNEVIN ROAD OVERBRIDGE DRAWINGS (SEPT 1894)
- RENEWAL OF PARAPET CROSSGUNS BRIDGE DRAWINGS (26-OCT-1978)

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Project Code BCIDD	Originator Code ROT	QMS Code		

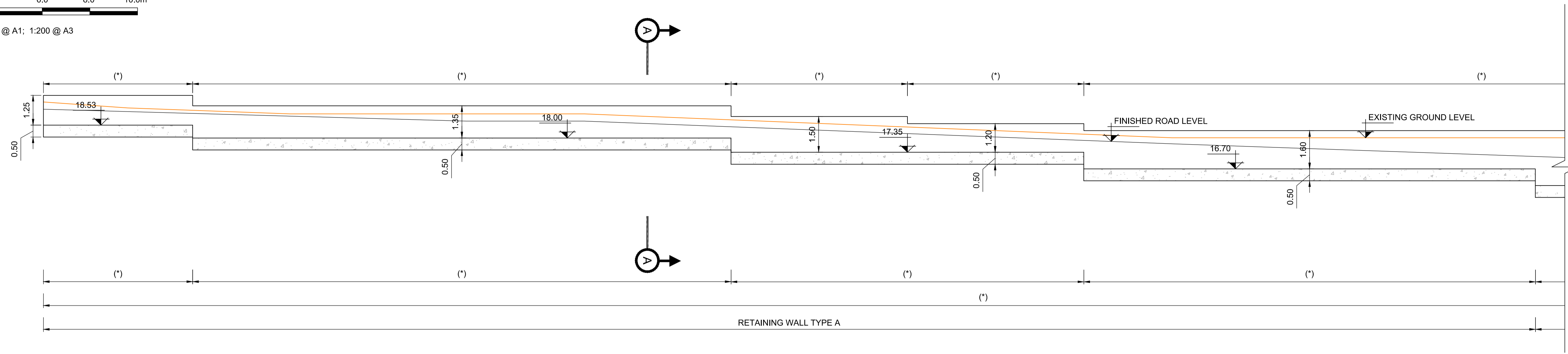
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Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 05. GENERAL ARRANGEMENT & SECTIONS			
Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0009	Sheet Number 01 of 02	Status A	Rev M01

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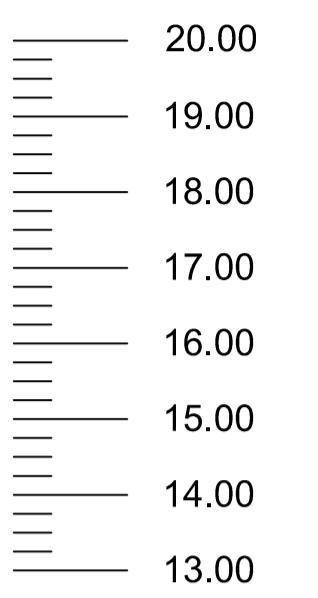
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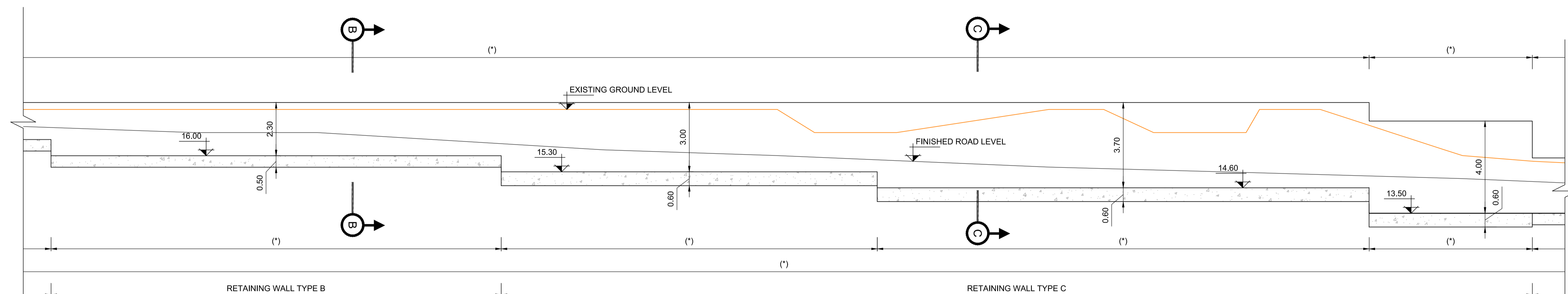
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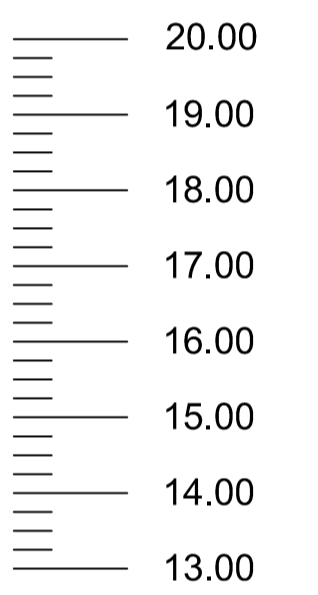
ELEVATIONS



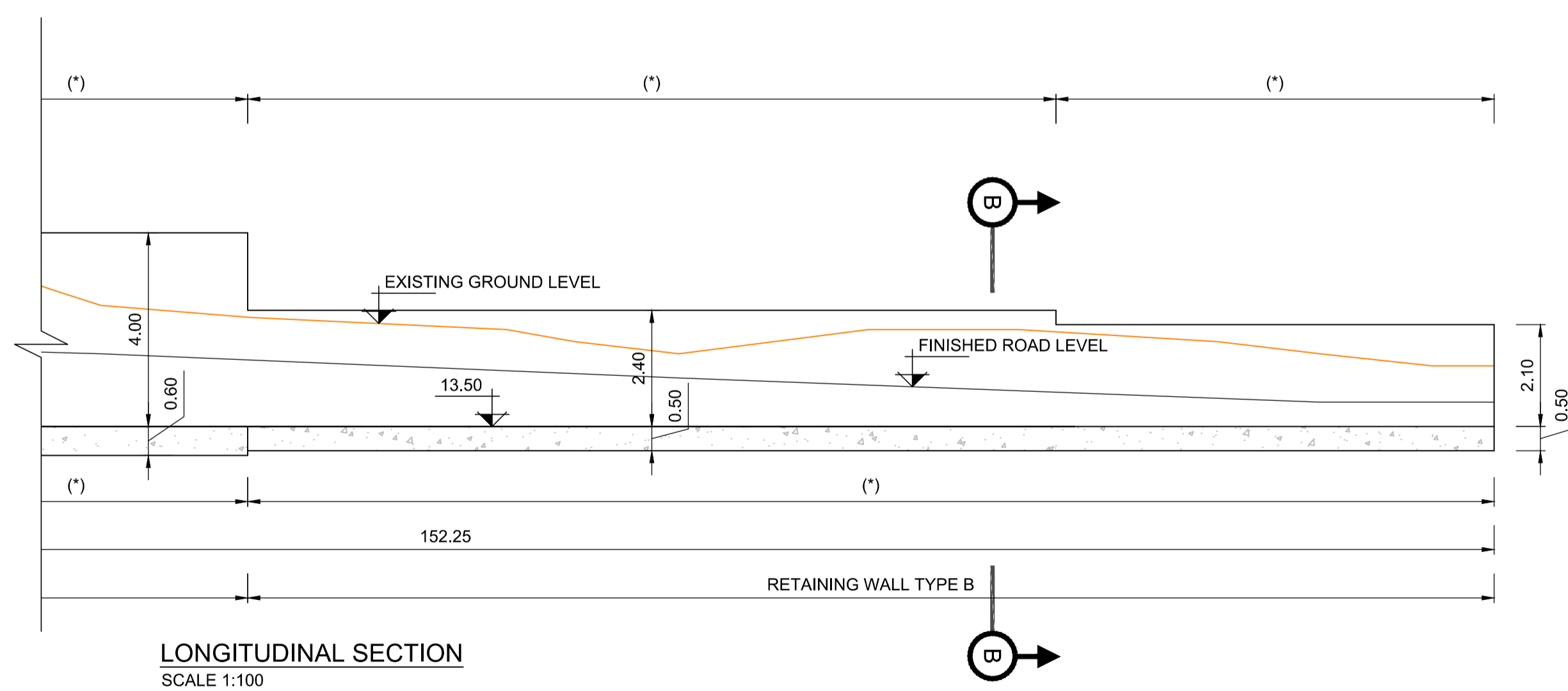
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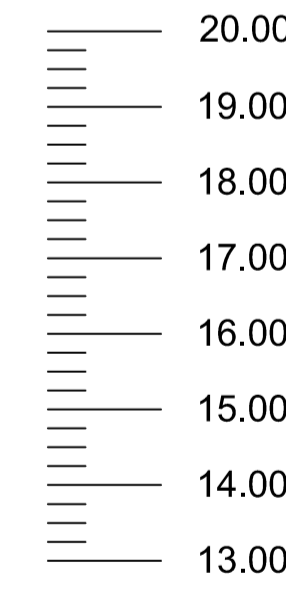
ELEVATIONS



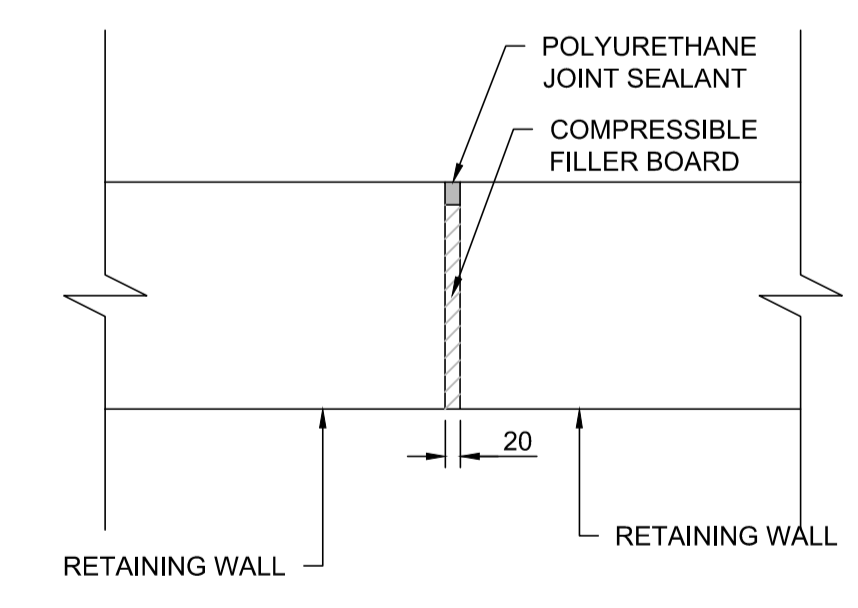
LONGITUDINAL SECTION
SCALE 1:100



ELEVATIONS



LONGITUDINAL SECTION
SCALE 1:100



EXPANSION JOINT DETAIL
SCALE 1:10

(* SEE PLAN VIEW FOR DIMENSIONS.)

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. THE GENERAL ARRANGEMENT IS INDICATIVELY ONLY.
3. PRIOR TO THE EXECUTION OF THE WORKS, THE CONTRACTOR MUST CHECK ON SITE THE GEOMETRY AND DIMENSIONS OF THE EXISTING STRUCTURAL ELEMENTS. SHOULD THE CONTRACTOR FIND ANY DISCREPANCY WITH THOSE INDICATED IN THE DRAWINGS, THEN IT SHALL BE COMMUNICATED IMMEDIATELY TO THE PROJECT DIRECTOR BEFORE COMMENCING CONSTRUCTION WORKS.
4. ALL BURIED SURFACES TO BE WATERPROOFED IN ACCORDANCE WITH THE TII SPECIFICATION FOR ROAD WORKS.
5. FOUNDATION DETAILS SUBJECT TO CONFIRMATION OR RECEIPT OF G.I.
6. SERVICES SHOWN INDICATIVELY ONLY. THE CONTRACTOR SHALL IDENTIFY THE SERVICES ON SITE PRIOR COMMENCING CONSTRUCTION WORKS.

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b. This drawing is to be used for the design element identified in the titleblock. Other information shown is to be considered indicative only. The drawing is to be read in conjunction with all other relevant design drawings.
c. O.S. data used for plans are printed under © Ordnance Survey Ireland Government of Ireland. All rights reserved. Licence Number 2022/OSI_NMA_180 National Transport Authority. All elevations are in metres and relate to OSI Geoid Model (OSGM15) Mean Head. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active local GPS station.
d. Information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superceded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.
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Rev	Date	Drn	Chk'd	App'd	Description
M01	13/05/2022	JVG	EFD	SMG	ISSUE FOR PHASE 4: PLANNING

Client NTA Údarás Náisiúnta Iompair National Transport Authority		Engineering Designer JROD TYPSA		
Date 13/05/2022	Scale 1:100 @ A1 1:200 @ A3	Drawn JVG	Checked EFD	Approved SMG
Project Code BCIDD	Originator Code ROT	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title BALLYMUN / FINGLAS TO CITY CENTRE CORE BUS CORRIDOR SCHEME STRUCTURES BALLYMUN 05. LONGITUDINAL SECTION	
Drawing File Name BCIDD-ROT-STR_ZZ-0304_XX_00-DR-SS-0010	Sheet Number 02 of 02
Status A	Rev M01

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