

CURRENT STATE. ELEVATION
SCALE: 1:100

REV.	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	EAC	ACJ	CCH

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 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLG).

Client

Consultant

Project

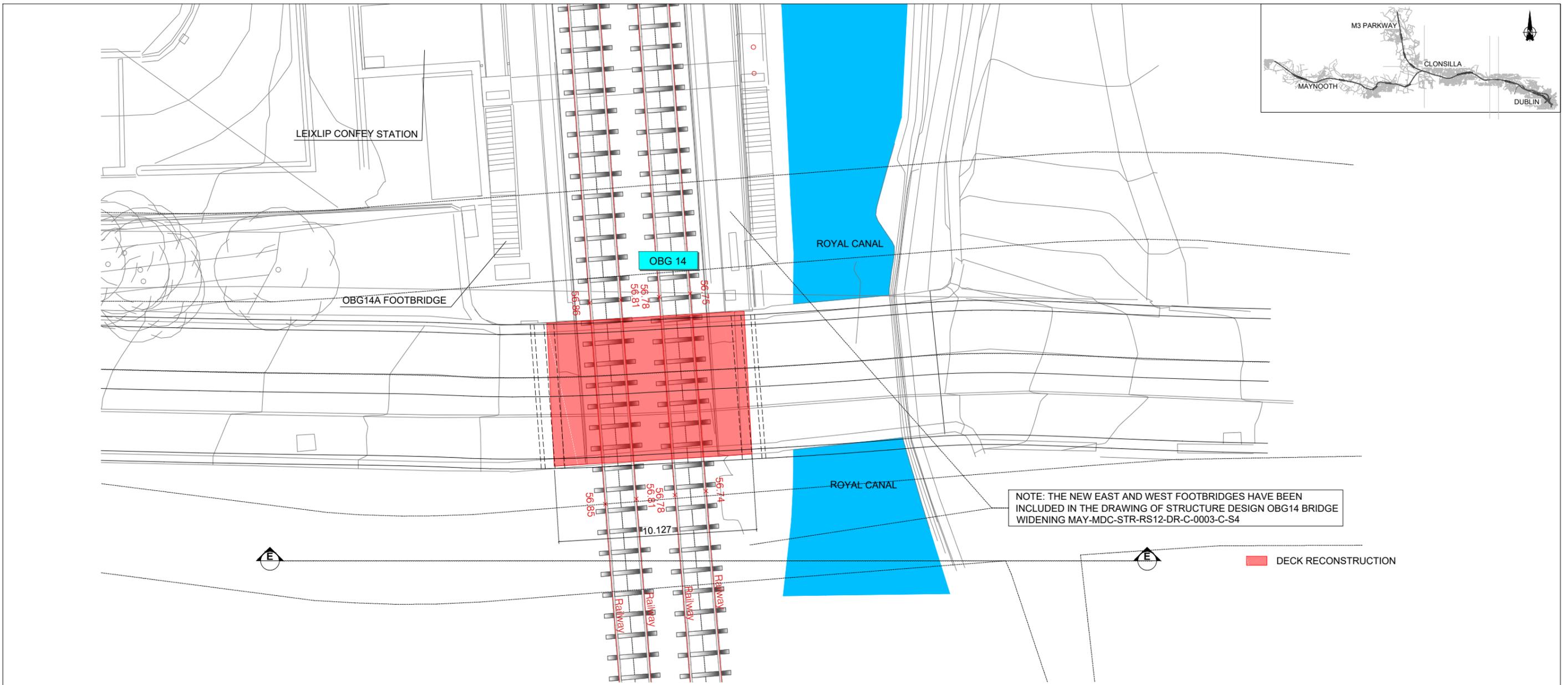
Drawing Title

STRUCTURE DESIGN
OBG14. BRIDGE DECK RECONSTRUCTION
CURRENT STATE

Scale:
1:1000 @ A1 1:2000 @ A3

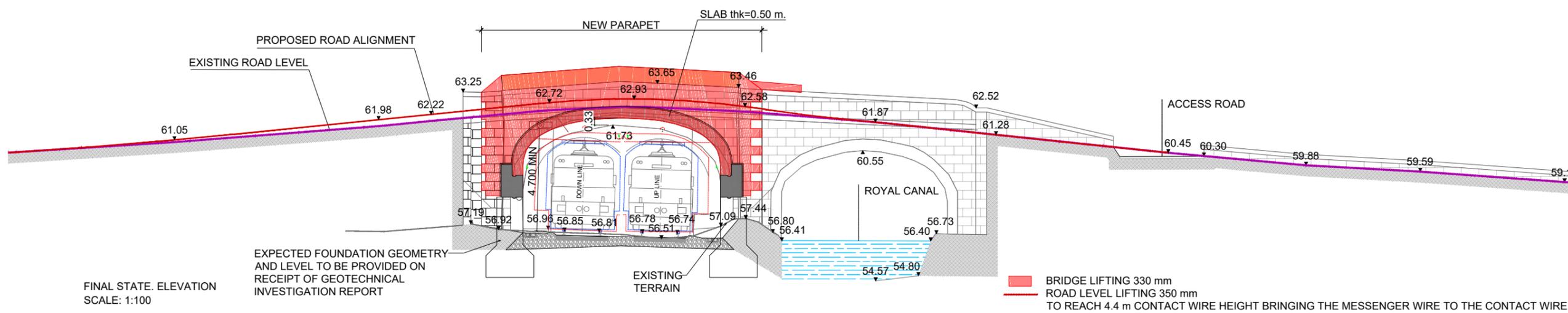
Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 1 of 4



NOTE: THE NEW EAST AND WEST FOOTBRIDGES HAVE BEEN INCLUDED IN THE DRAWING OF STRUCTURE DESIGN OBG14 BRIDGE WIDENING MAY-MDC-STR-RS12-DR-C-0003-C-S4

DECK RECONSTRUCTION



FINAL STATE. ELEVATION SCALE: 1:100

EXPECTED FOUNDATION GEOMETRY AND LEVEL TO BE PROVIDED ON RECEIPT OF GEOTECHNICAL INVESTIGATION REPORT

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Client

Consultant

Project

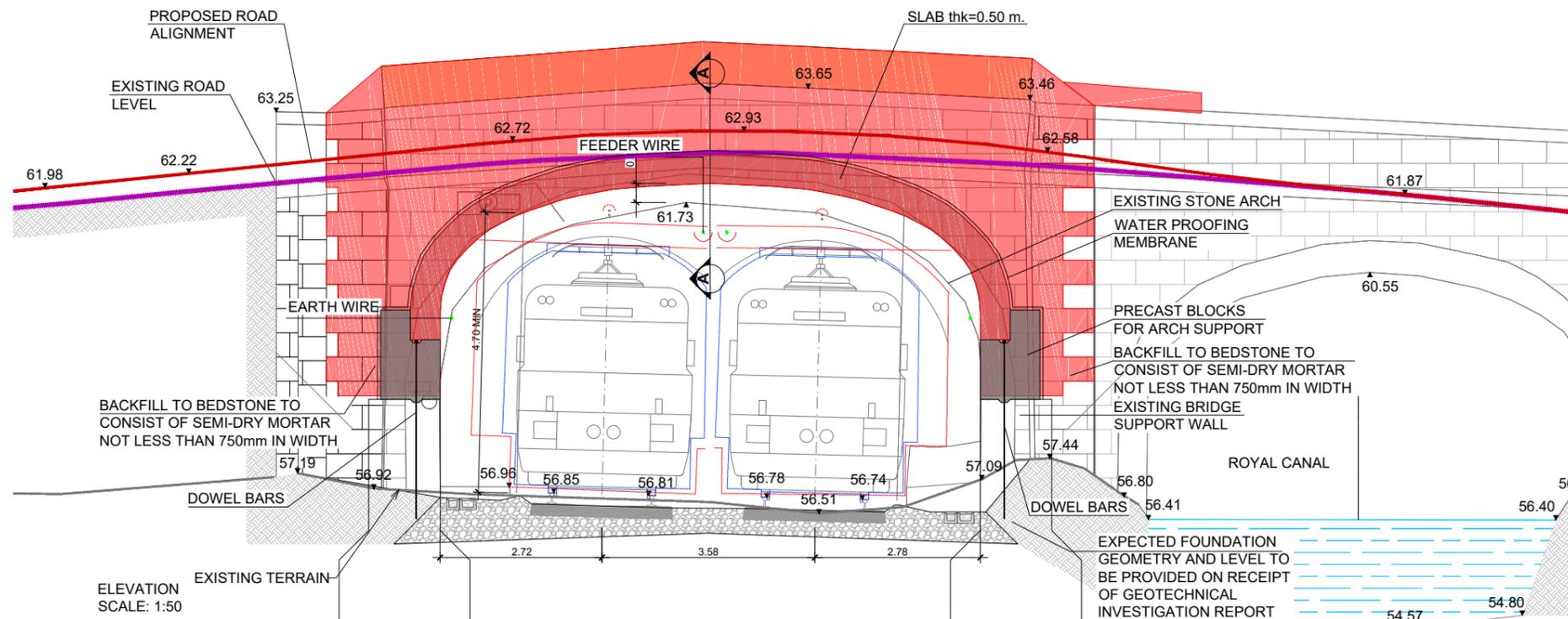
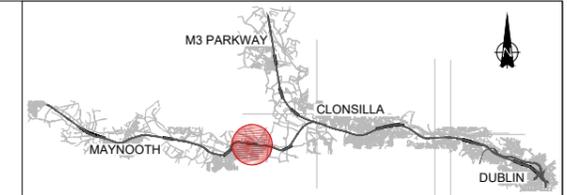
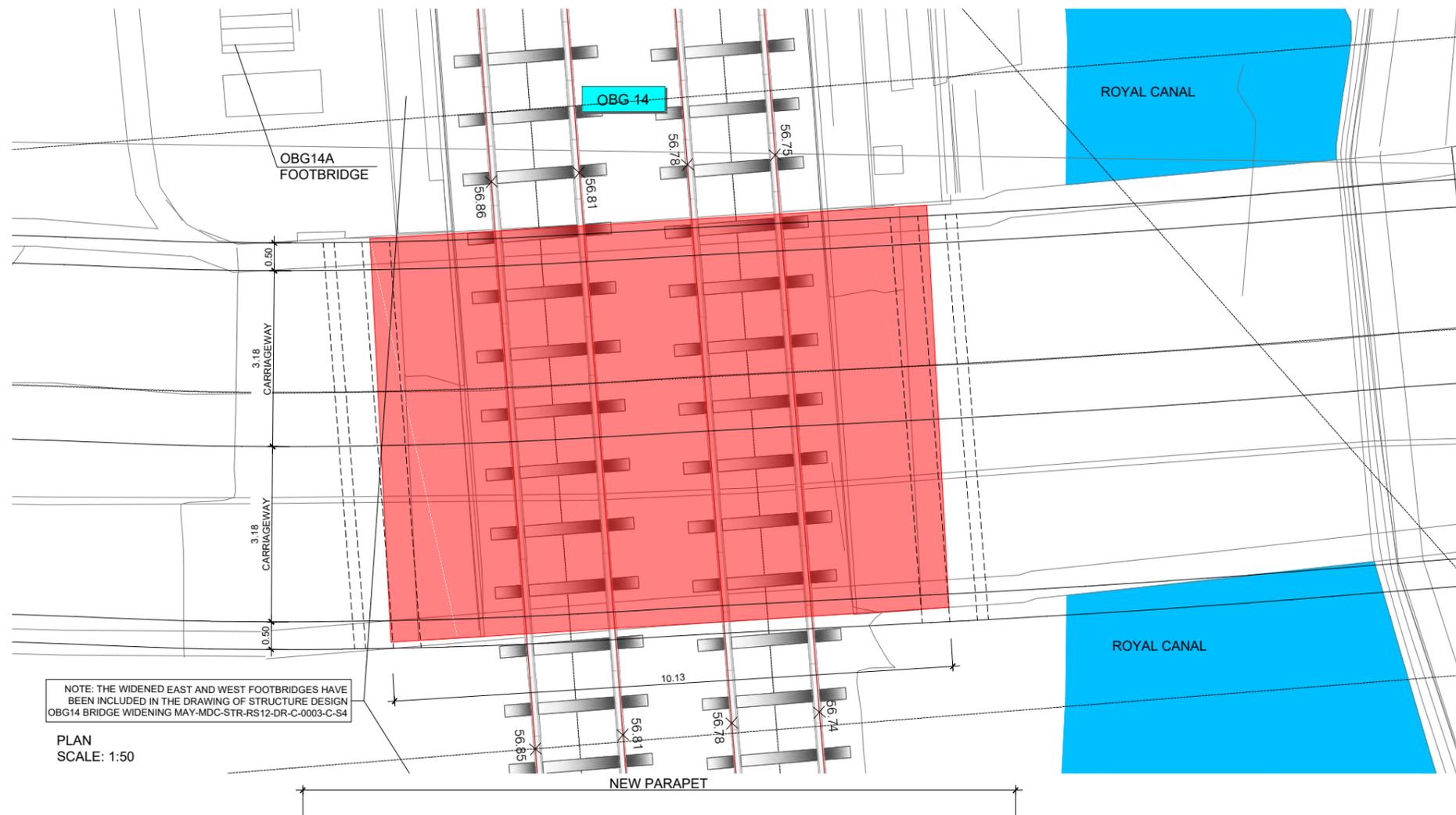
Drawing Title

STRUCTURE DESIGN
OBG14. BRIDGE DECK RECONSTRUCTION
FINAL STATE

Scale:
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 2 of 4



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Client: Tionscald Éireann Project Ireland 2040, NTA Údarás Náisiúnta Iompartha National Transport Authority, Iarnród Éireann Irish Rail

Consultant: IDOM, G3, IROD

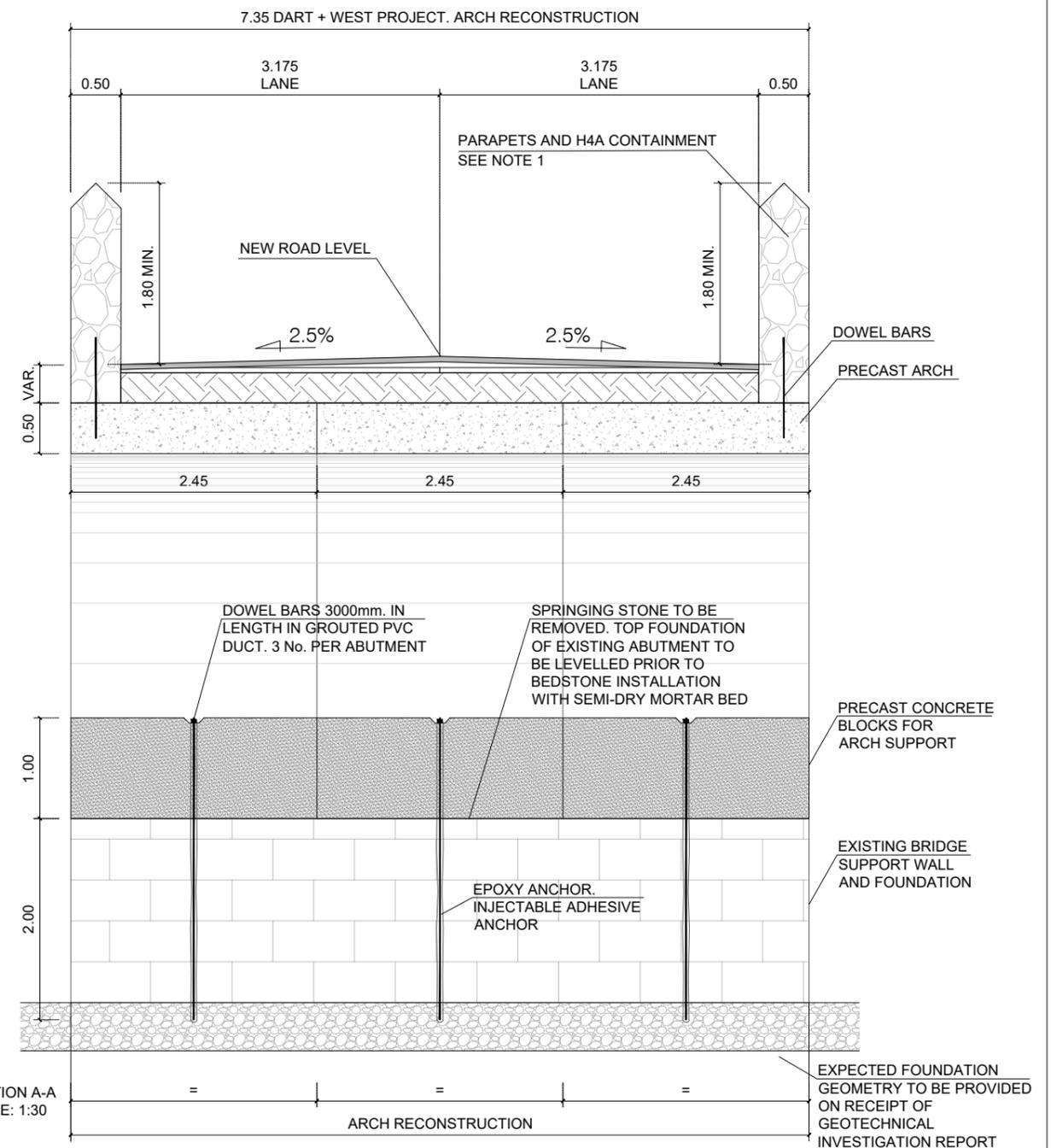
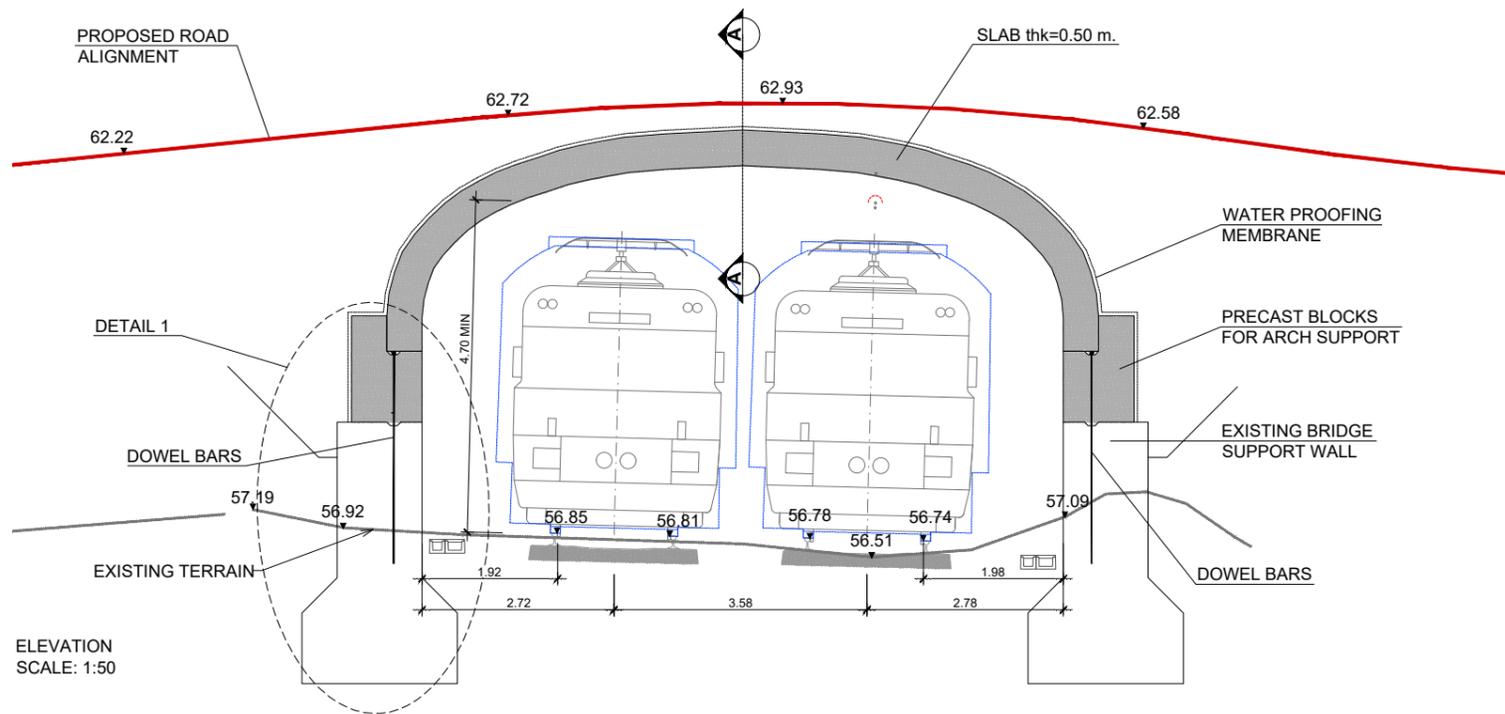
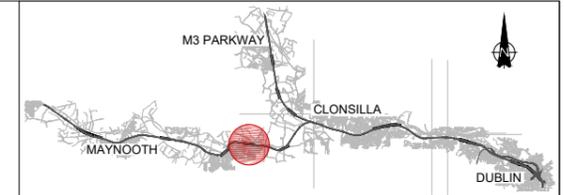
Project: DART+ West

Drawing Title: STRUCTURE DESIGN OBG14. BRIDGE DECK RECONSTRUCTION FINAL STATE DETAIL

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number: MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 3 of 4



NOTE 1: THE PARAPET WILL BE REBUILT TO ACHIEVE THE 1.8M OVER THE RAILWAY. A CONTEMPORARY SOLUTION TO BE AGREED WITH THE CONSERVATION ARCHITECT.

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 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLG9).

Client

Tionscatal Éireann Project Ireland 2040

NTA Údarás Náisiúnta Impleachtaí National Transport Authority

Iarnród Éireann Irish Rail

Consultant

IDOM

G3

IROD

Project

DART+ West

Drawing Title

STRUCTURE DESIGN

OBG14. BRIDGE DECK RECONSTRUCTION

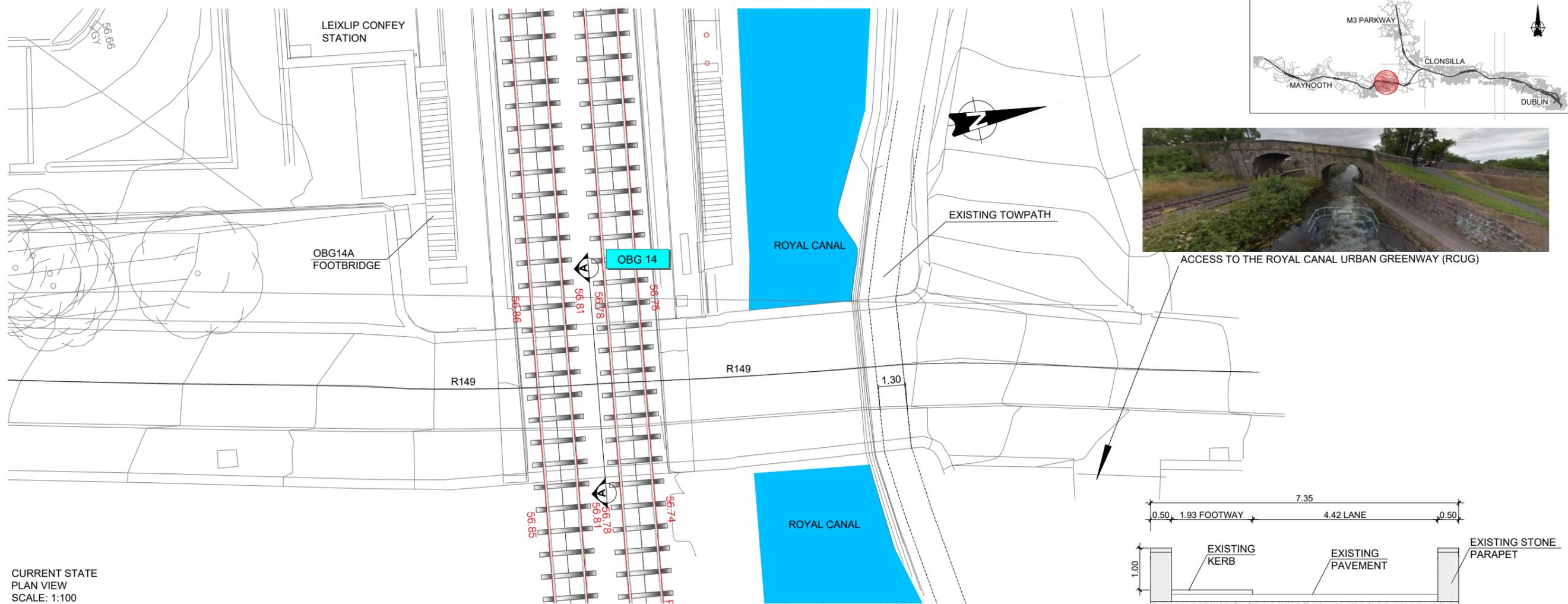
STRUCTURAL DESIGN DETAIL

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase

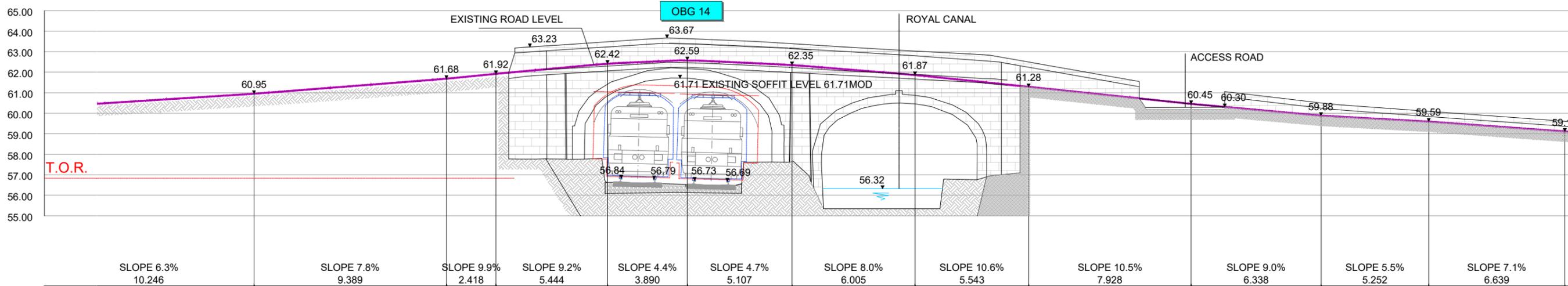
MAY MDC STR RS12 DR C 0002 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 4 of 4



CURRENT STATE
PLAN VIEW
SCALE: 1:100

CURRENT STATE
SECTION A-A
SCALE: 1:50



CURRENT STATE
ELEVATION
SCALE: 1:100

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
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 All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TL49).

Client

Tionscail Éireann Project Ireland 2040

NTA Údarás Náisiúnta Iompartha National Transport Authority

Irish Rail

Consultant

IDOM

G3

IROD

Project

DART+ West

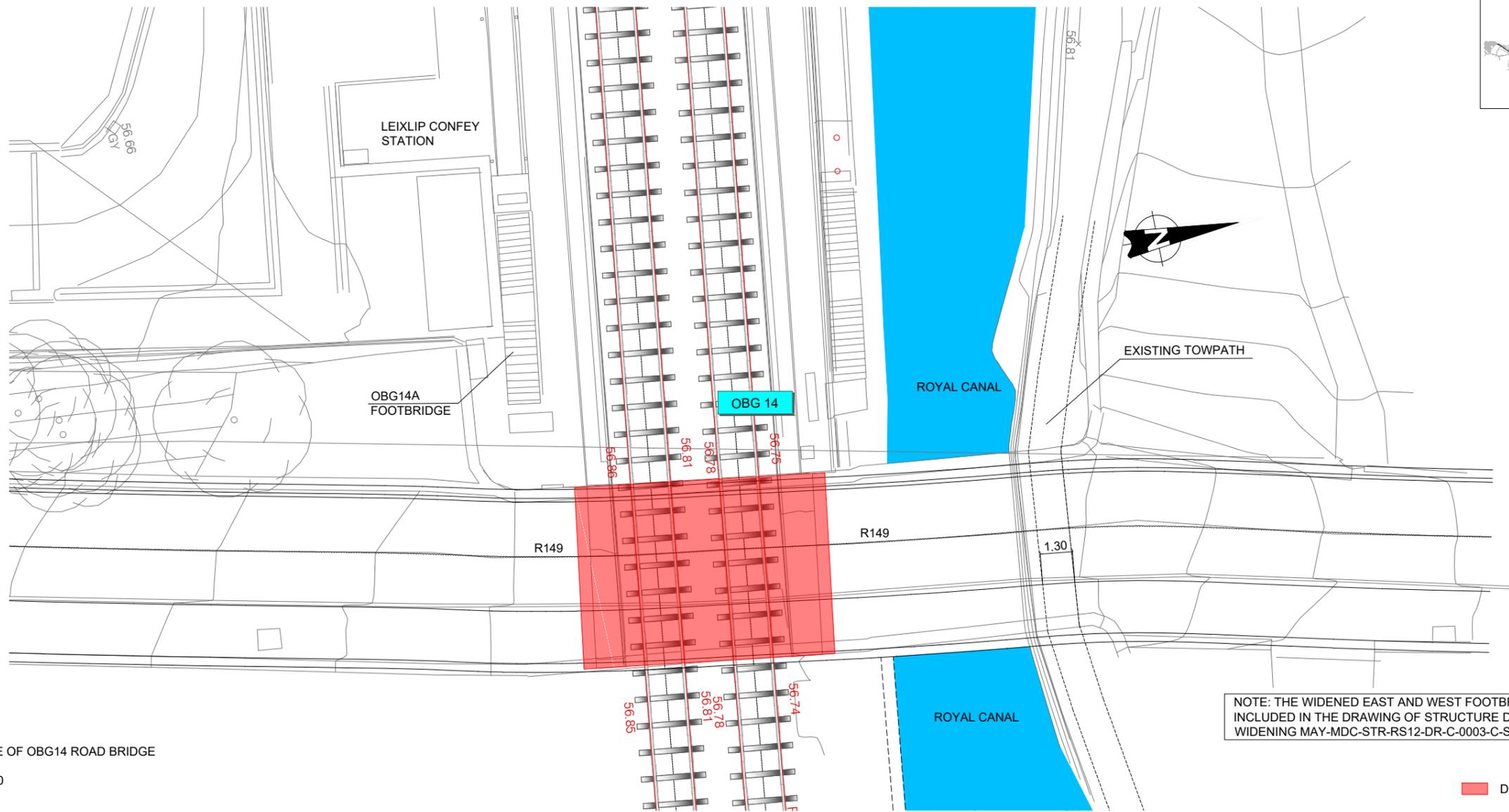
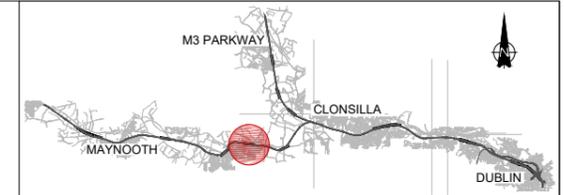
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
CURRENT STATE

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

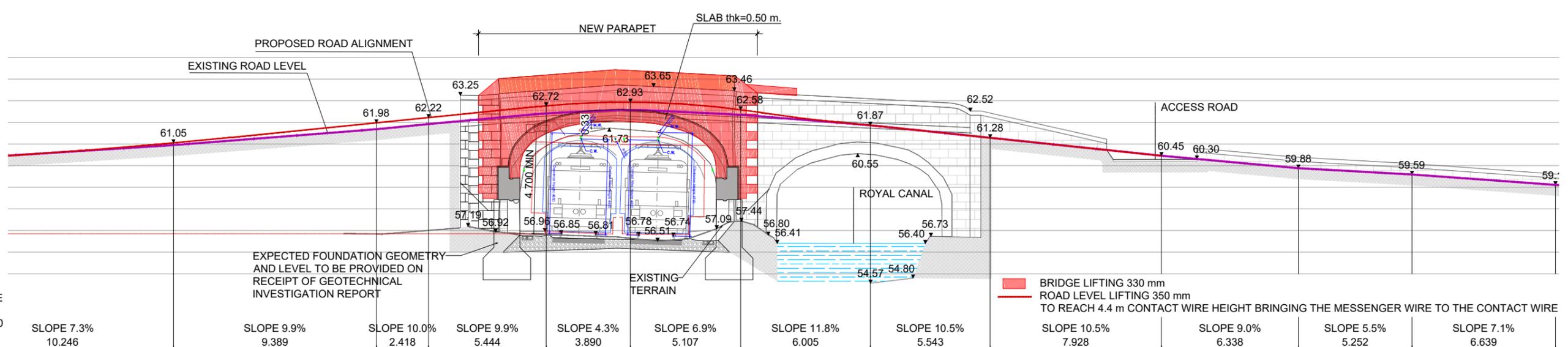
Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 1 of 9



NOTE: THE WIDENED EAST AND WEST FOOTBRIDGES HAVE BEEN INCLUDED IN THE DRAWING OF STRUCTURE DESIGN OBG14 BRIDGE WIDENING MAY-MDC-STR-RS12-DR-C-0003-C-S4, SHEET 3 OF 9 TO 9 OF 9

FINAL STATE OF OBG14 ROAD BRIDGE
PLAN VIEW
SCALE: 1:100

DECK RECONSTRUCTION



BRIDGE LIFTING 330 mm
ROAD LEVEL LIFTING 350 mm
TO REACH 4.4 m CONTACT WIRE HEIGHT BRINGING THE MESSENGER WIRE TO THE CONTACT WIRE

FINAL STATE ELEVATION
SCALE: 1:100

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	EAC	ACJ	CCH

Client: Tionscail Éireann Project Ireland 2040, NTA, Iarnród Éireann Irish Rail

Consultant: IDOM, G3, IROD

Project: DART+ West

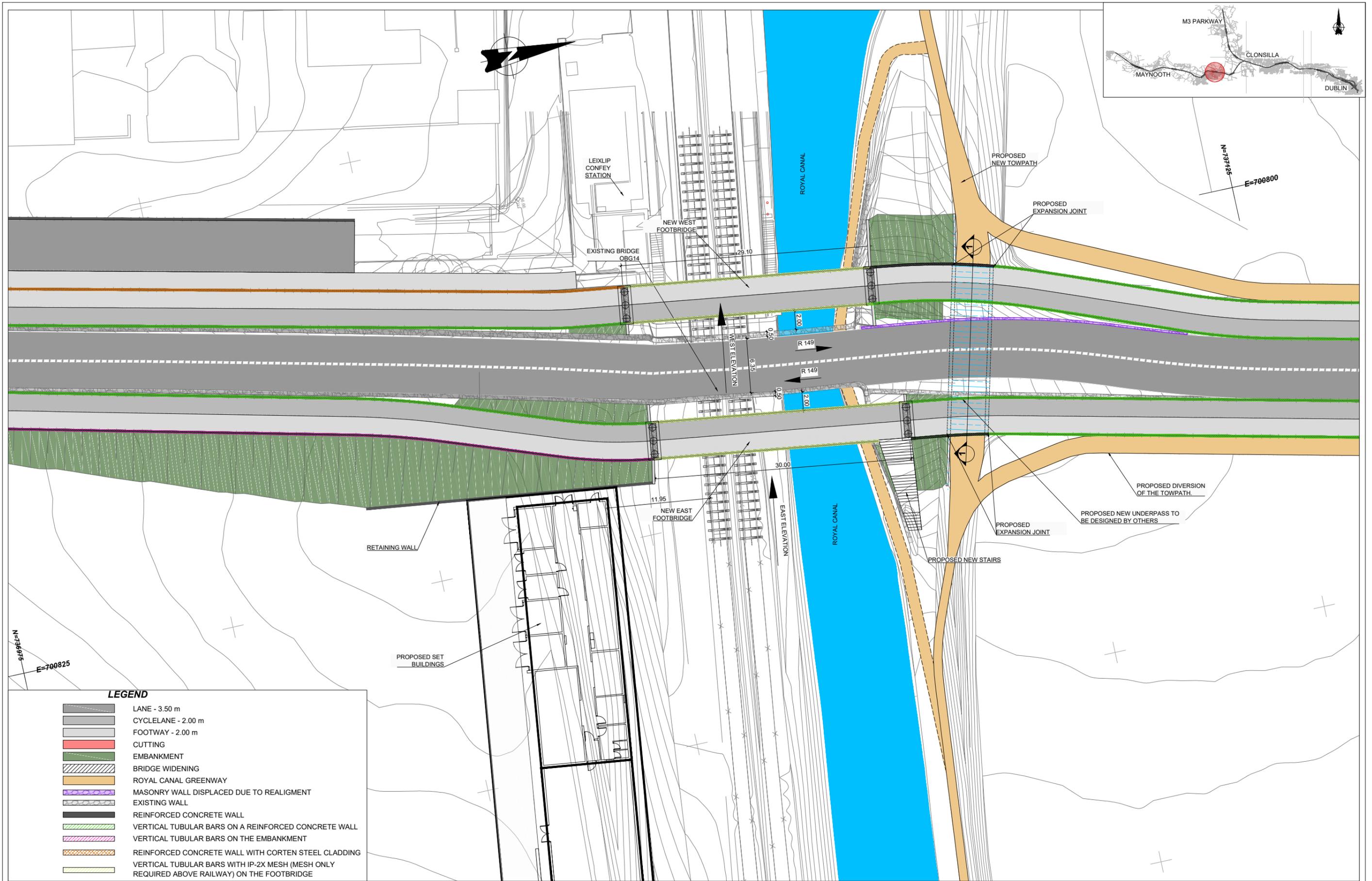
Drawing Title: STRUCTURE DESIGN OBG14 BRIDGE WIDENING OBG14 ROAD BRIDGE, FINAL STATE

Scale: 1:1000 @ A1, 1:2000 @ A3

Drawing Number: MAY MDC STR RS12 DR C 0003 D

Date: April 2022, Job No: P/101086, Status: F1-Approved & accepted, Rev: V01, Sheet: 2 of 9

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LEGEND

	LANE - 3.50 m
	CYCLELANE - 2.00 m
	FOOTWAY - 2.00 m
	CUTTING
	EMBANKMENT
	BRIDGE WIDENING
	ROYAL CANAL GREENWAY
	MASONRY WALL DISPLACED DUE TO REALIGNMENT
	EXISTING WALL
	REINFORCED CONCRETE WALL
	VERTICAL TUBULAR BARS ON A REINFORCED CONCRETE WALL
	VERTICAL TUBULAR BARS ON THE EMBANKMENT
	REINFORCED CONCRETE WALL WITH CORTEN STEEL CLADDING
	VERTICAL TUBULAR BARS WITH IP-2X MESH (MESH ONLY REQUIRED ABOVE RAILWAY) ON THE FOOTBRIDGE

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Client

Tionscatal Éireann
Project Ireland
2040

NTA
Údarás Náisiúnta Iompartha
National Transport Authority

lamróid Éireann
Irish Rail

Consultant

IDOM

G3

IROD
EÓIRIÁN & O'DONOVAN

Project

DART+
West

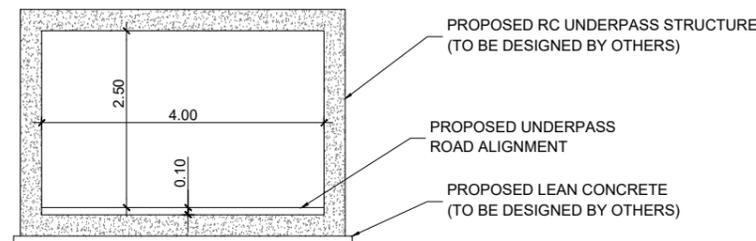
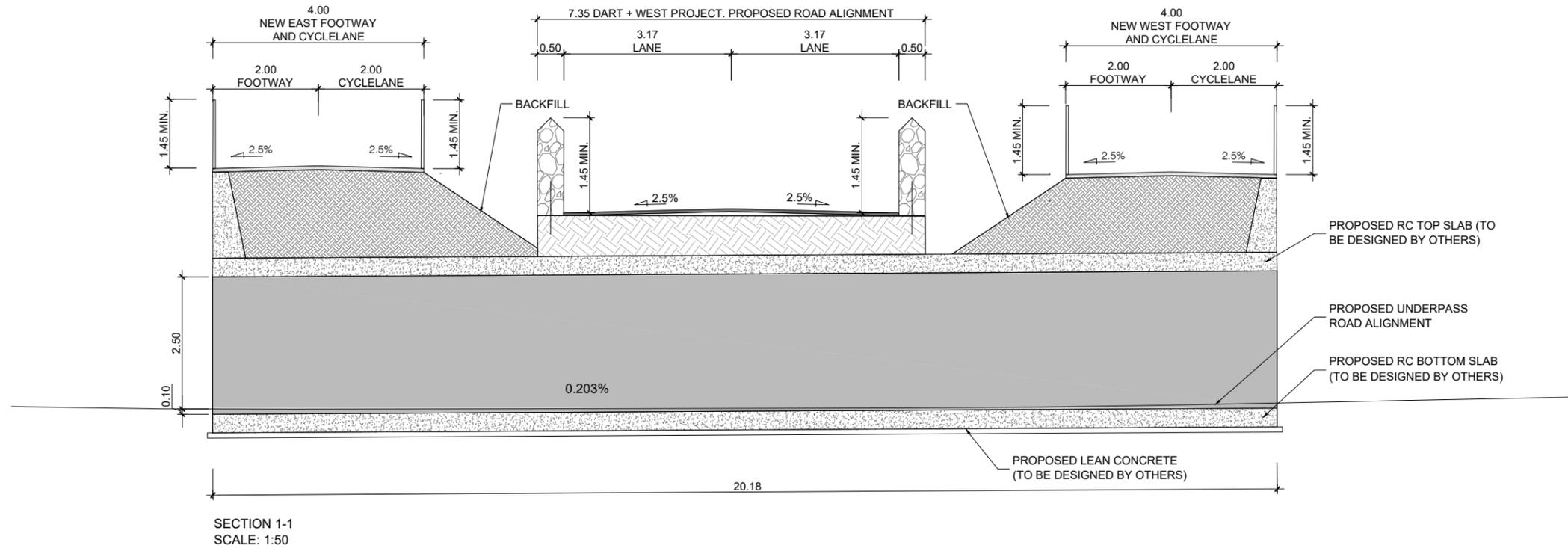
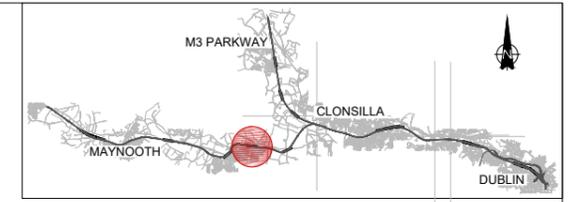
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
FINAL LAYOUT

Scale:
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 3 of 9



TYPICAL CROSS SECTION OF THE NEW UNDERPASS
(TO BE DESIGNED BY OTHERS)
SCALE: 1:50

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Client

Consultant

Project

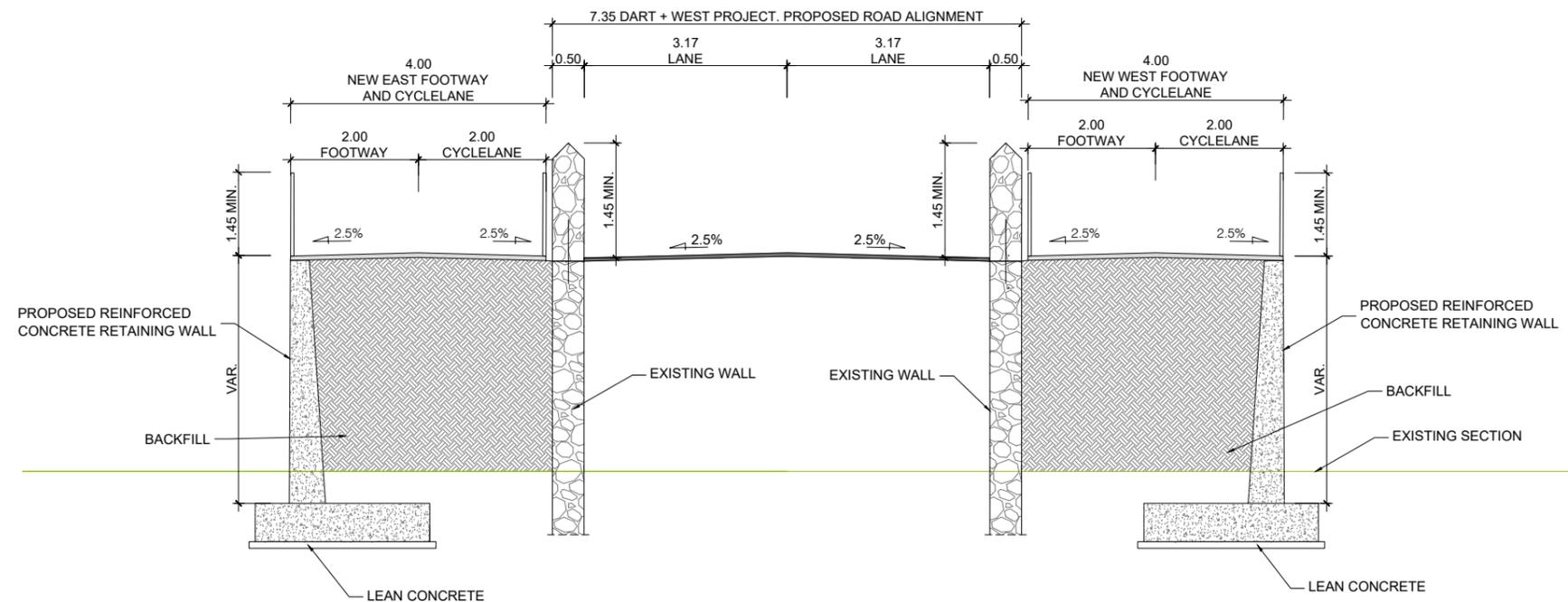
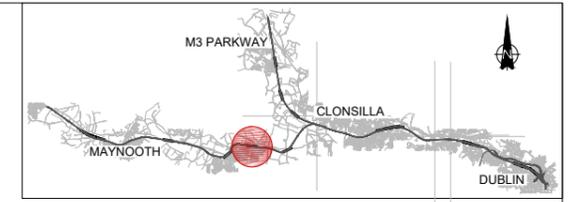
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
FINAL STATE - NEW UNDERPASS CROSS SECTION

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 4 of 9



DETAIL OF THE CONNECTION BETWEEN
FOOTWAY/CYCLELANE AND EXISTING ROAD
SCALE: 1:50

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Client

Consultant

Project

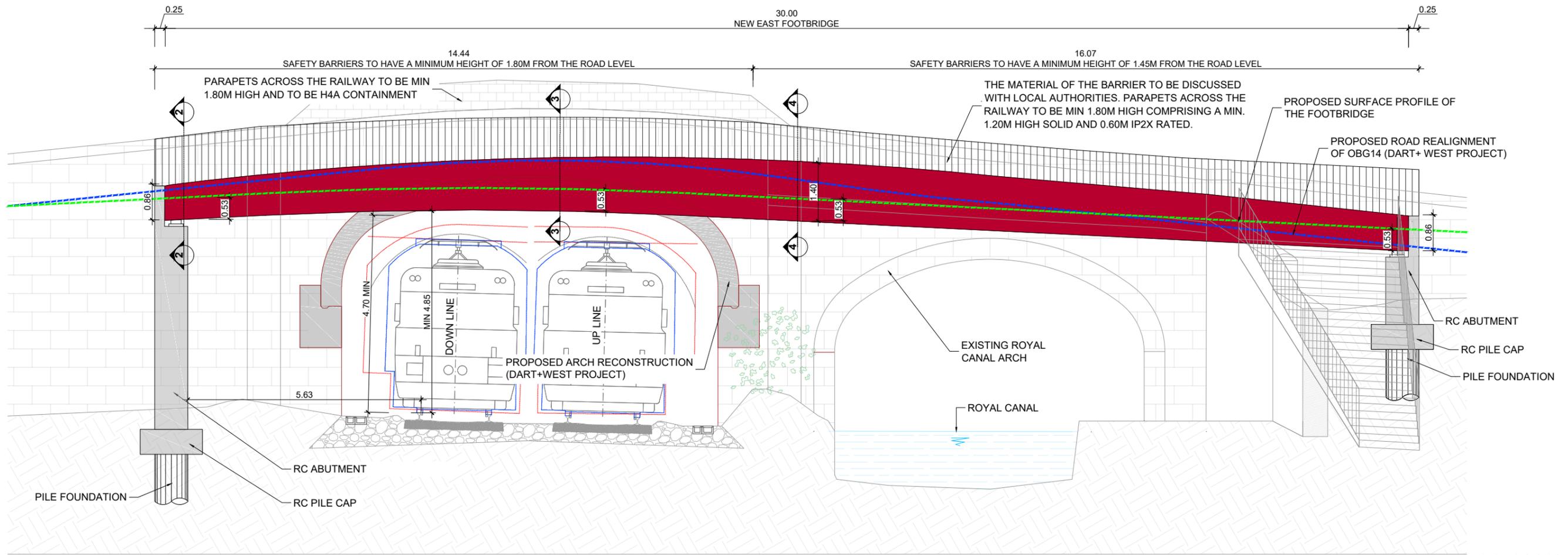
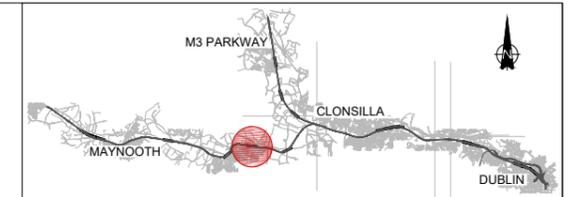
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
PROPOSED CONNECTION BETWEEN FOOTWAY/CYCLELANE AND EXISTING ROAD

Scale:
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 5 of 9



EAST ELEVATION
SCALE: 1:50

LEGEND	
	PROPOSED ROAD REALIGNMENT OF OBG14 (DART+ WEST PROJECT)
	PROPOSED SURFACE PROFILE OF THE FOOTBRIDGE

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Client

Consultant

Project

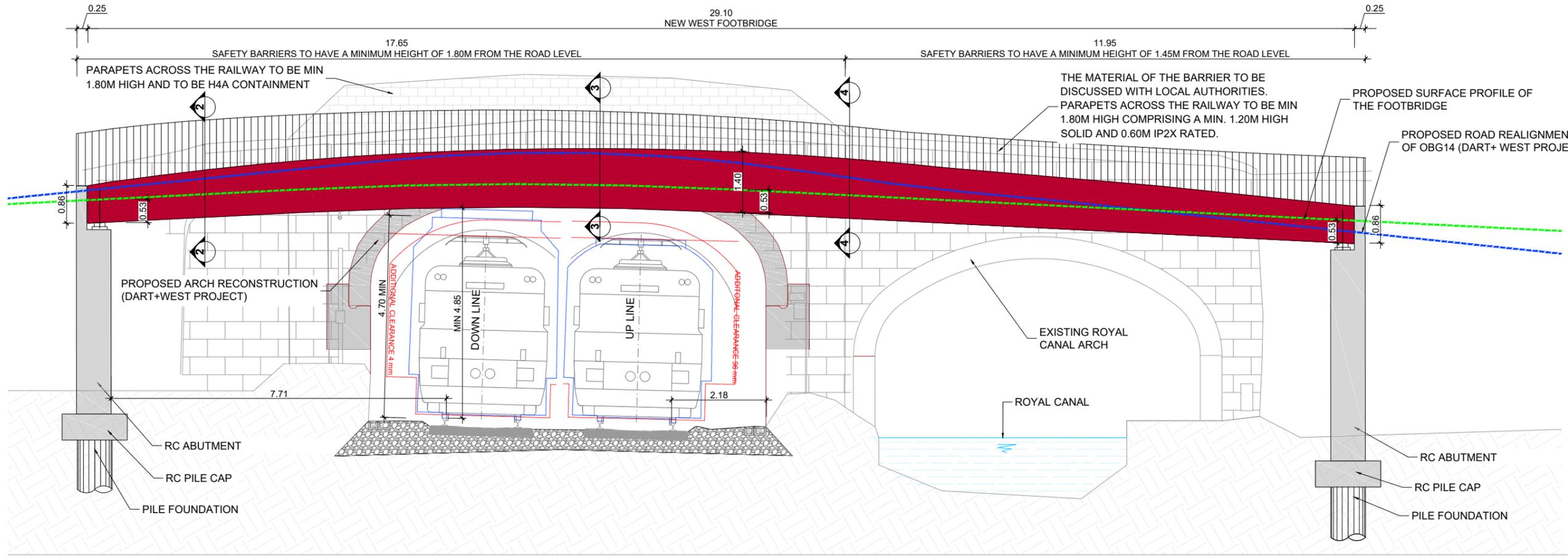
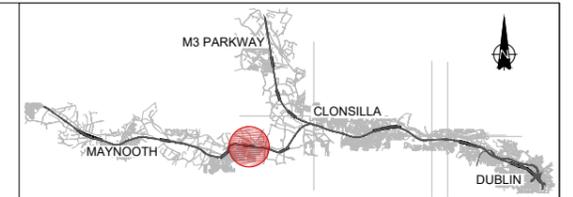
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
FINAL STATE - EAST ELEVATION

Scale:
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 6 of 9



WEST ELEVATION
SCALE: 1:50

LEGEND

- PROPOSED ROAD REALIGNMENT OF OBG14 (DART+ WEST PROJECT)
- PROPOSED SURFACE PROFILE OF THE FOOTBRIDGE

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Client

Consultant

Project

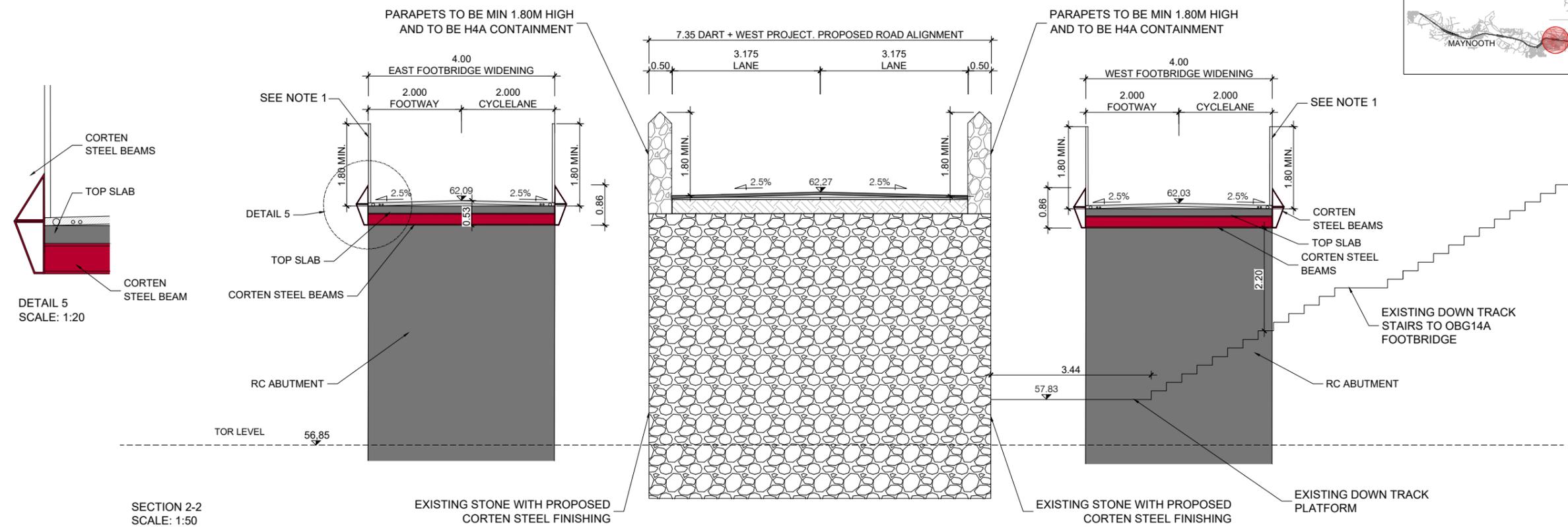
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
FINAL STATE - WEST ELEVATION

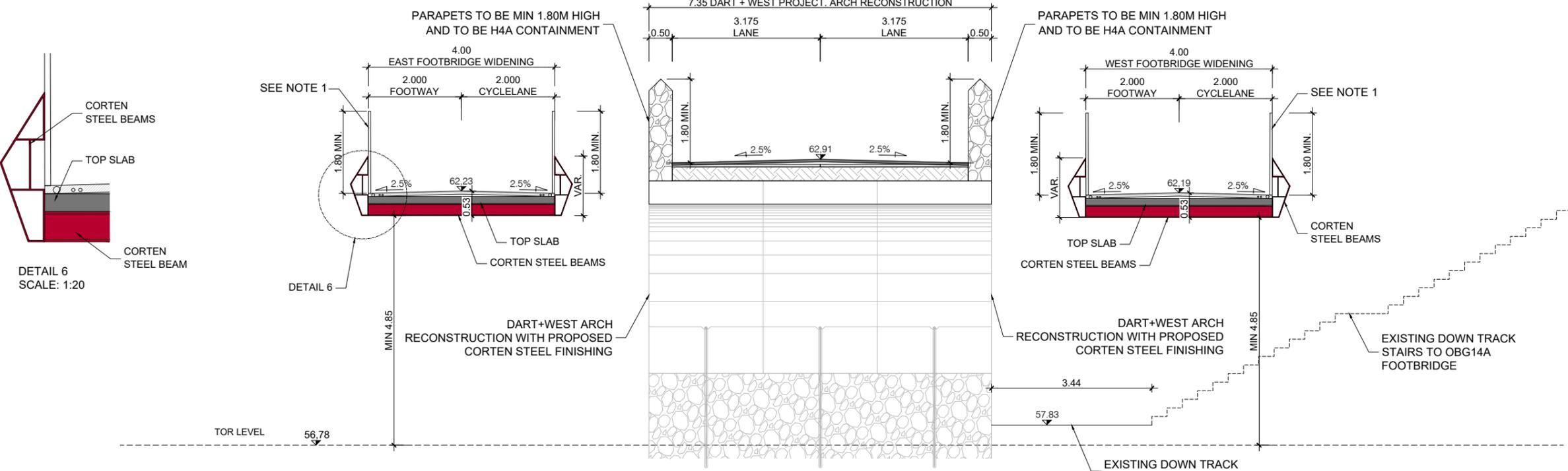
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Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 7 of 9



SECTION 2-2
SCALE: 1:50



SECTION 3-3
SCALE: 1:50

NOTE 1: THE MATERIAL OF THE BARRIER TO BE DISCUSSED WITH LOCAL AUTHORITIES. PARAPETS ACROSS THE RAILWAY TO BE MIN 1.80M HIGH COMPRISING A MIN. 1.20M HIGH SOLID AND 0.60M IP2X RATED.

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Client

Tionscaldal Éireann
Project Ireland
2040

NTA
Údarás Náisiúnta Iompartha
National Transport Authority

Iarnród Éireann
Irish Rail

Consultant

IDOM

G3

PROJOD
EORIGIAN & O'DONOVAN

Project

DART+
West

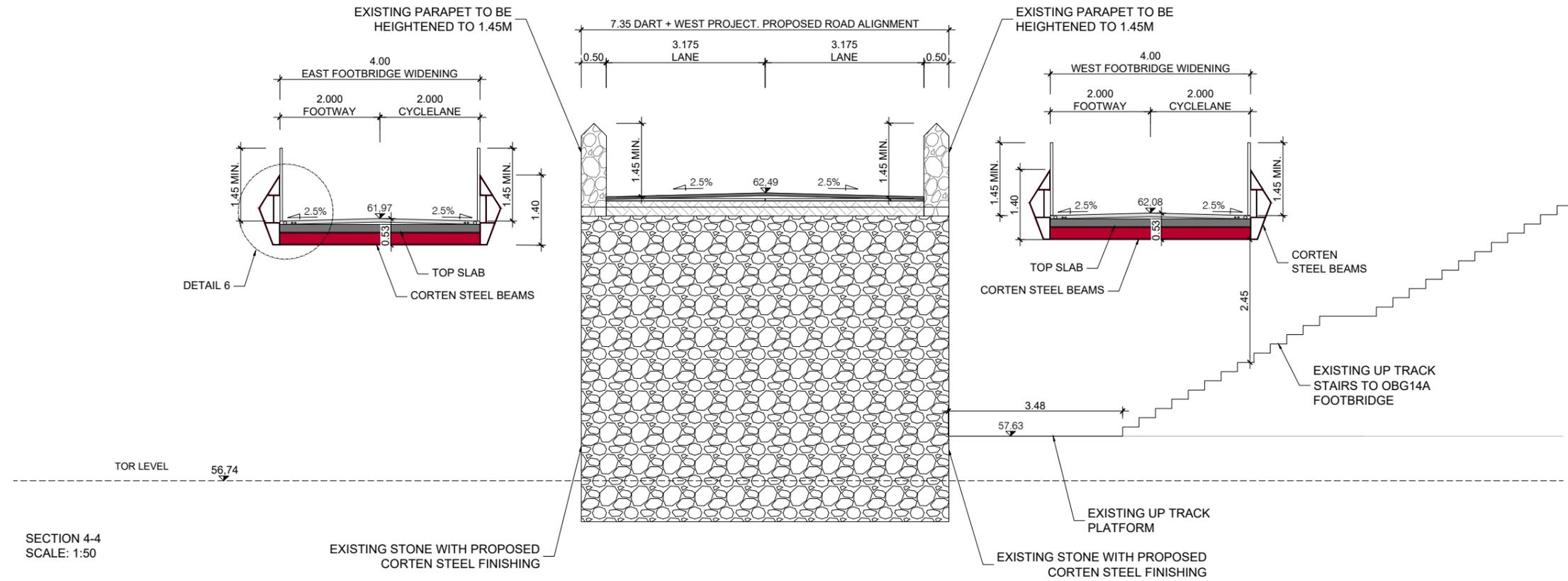
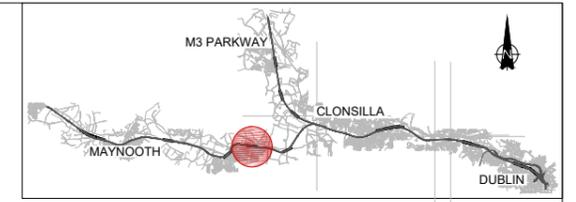
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
FINAL STATE - CROSS SECTION (I)

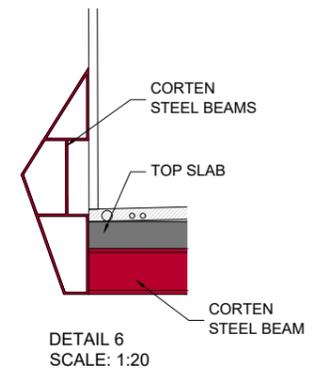
Scale:
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 8 of 9



SECTION 4-4
SCALE: 1:50



DETAIL 6
SCALE: 1:20

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Client

Consultant

Project

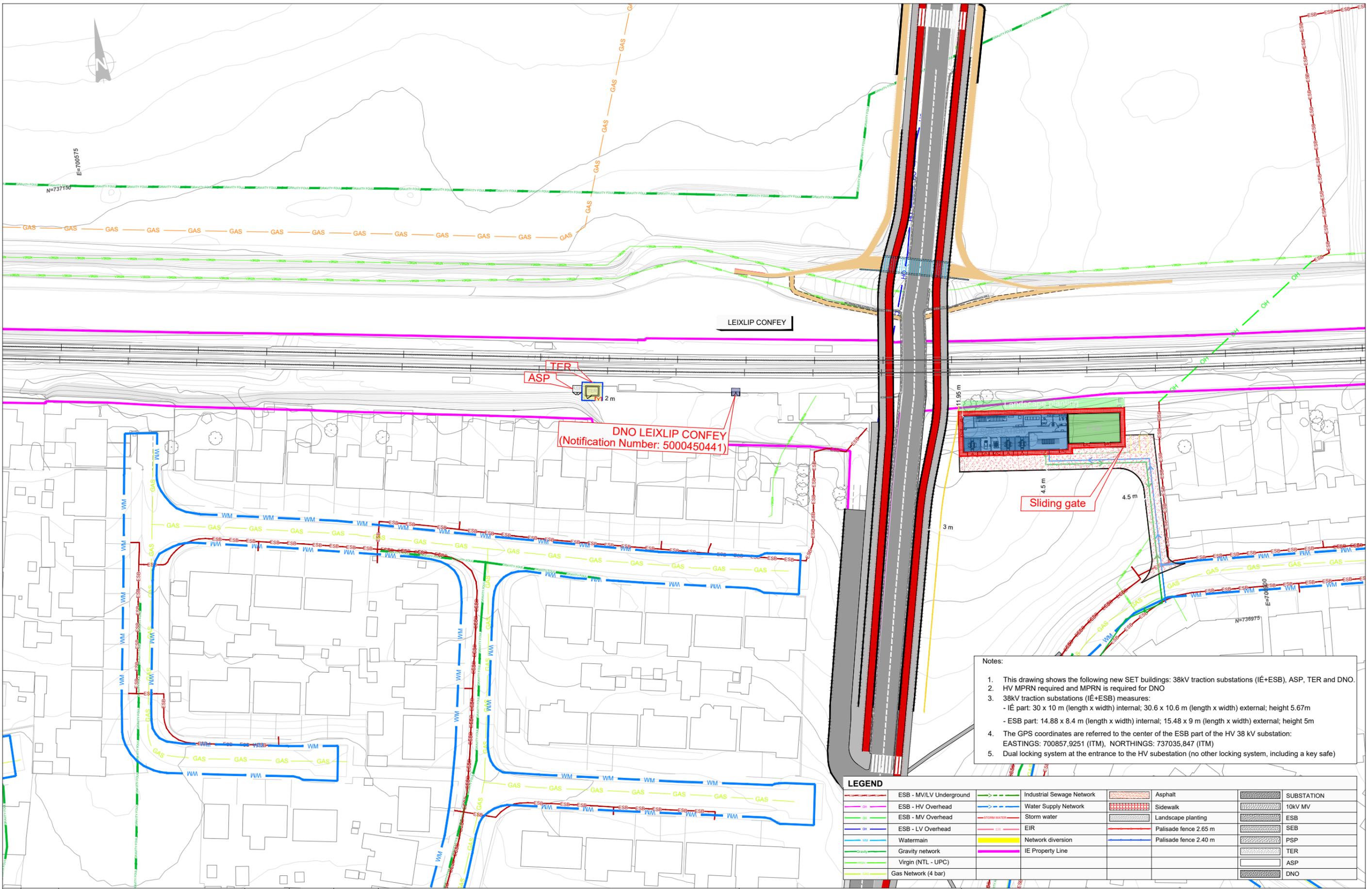
Drawing Title

STRUCTURE DESIGN
OBG14 BRIDGE WIDENING
FINAL STATE - CROSS SECTION (II)

Scale:
1:1000 @ A1 1:2000 @ A3

Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
MAY MDC STR RS12 DR C 0003 D

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 9 of 9



DNO LEIXLIP CONFEIY
(Notification Number: 5000450441)

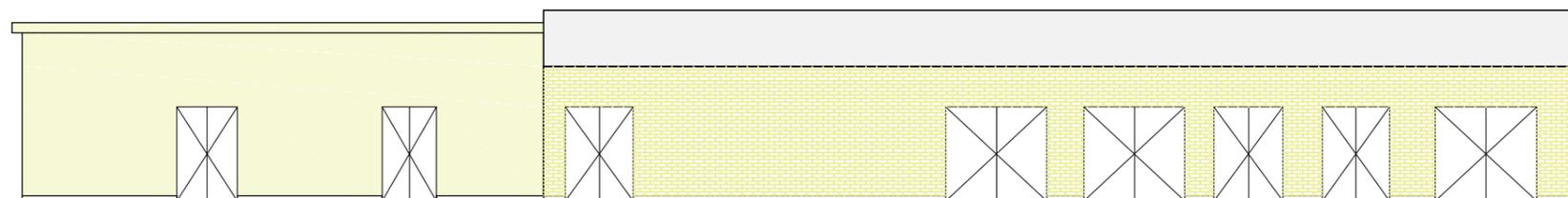
- Notes:
- This drawing shows the following new SET buildings: 38kV traction substations (IÉ+ESB), ASP, TER and DNO.
 - HV MPRN required and MPRN is required for DNO
 - 38kV traction substations (IÉ+ESB) measures:
 - IÉ part: 30 x 10 m (length x width) internal; 30.6 x 10.6 m (length x width) external; height 5.67m
 - ESB part: 14.88 x 8.4 m (length x width) internal; 15.48 x 9 m (length x width) external; height 5m
 - The GPS coordinates are referred to the center of the ESB part of the HV 38 kV substation:
EASTINGS: 700857,9251 (ITM), NORTHINGS: 737035,847 (ITM)
 - Dual locking system at the entrance to the HV substation (no other locking system, including a key safe)

LEGEND	
ESB - MV/LV Underground	Industrial Sewage Network
ESB - HV Overhead	Water Supply Network
ESB - MV Overhead	Storm water
ESB - LV Overhead	EIR
Watermain	Network diversion
Gravity network	IE Property Line
Virgin (NTL - UPC)	
Gas Network (4 bar)	
Asphalt	SUBSTATION
Sidewalk	10kV MV
Landscape planting	ESB
Palisade fence 2.65 m	SEB
Palisade fence 2.40 m	PSP
	TER
	ASP
	DNO

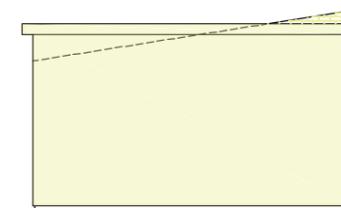
Client	Tionscald Éireann Project Ireland 2040		
Consultant	IDOM	C3	IRIOD
Project	DART+ West		
Drawing Title	SET TECHNICAL BUILDINGS LEIXLIP CONFEIY		
Scale:	1:500 @ A1		
Drawing Number	Project	Originator	Discipline
Date:	Job No:	Status:	Rev:
April 2022	P/101086	F1-Approved & accepted	V01
REV	DATE	DESCRIPTION	PRODUCED BY
V01	April 2022	PLANNING ISSUE	MCG
			MPT
			CCS

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Survey No. 0039720 (OSi Aerial Data or OSi Lidar Data) & Survey No. 2020/081_NMA_180 (OSi Vector Data).
All elevations are in metres and relate to OSi Geoid Model (OSGM02) Mean 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 (TLG).

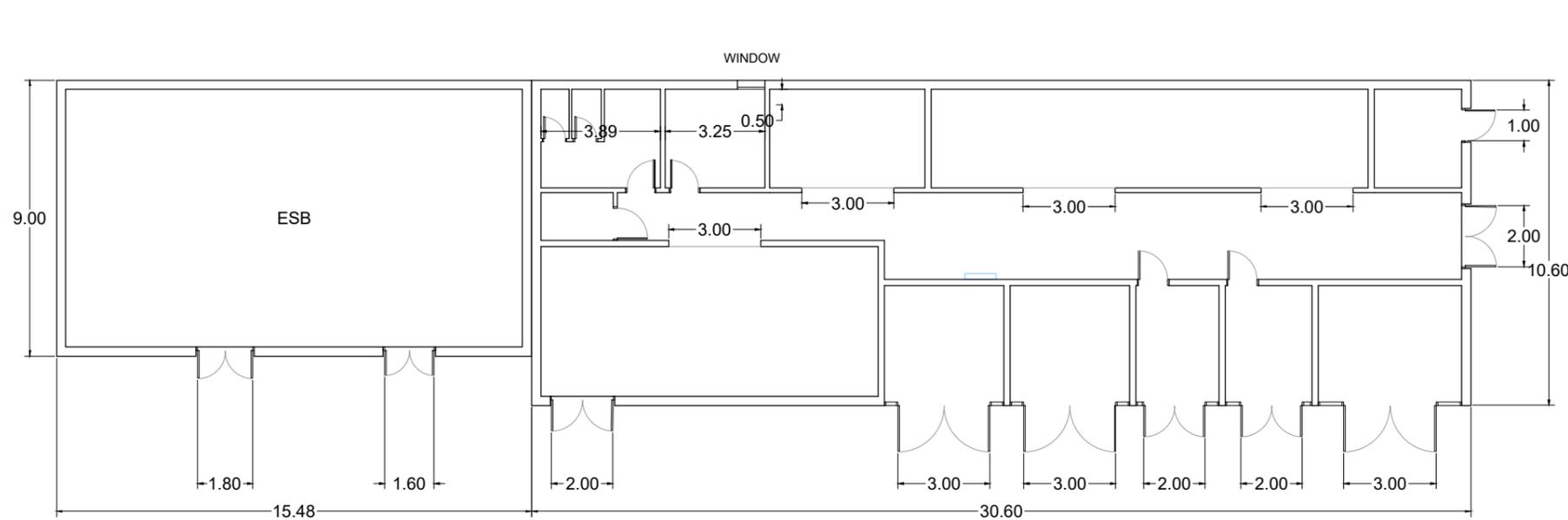
Scale:	Drawing Number	Project	Originator	Discipline	Location	Type	Role	Number	Phase
1:500 @ A1		MAY	MDC	SET	RS12	DR	Z	0003	D
0 2.5 6.25 12.5 25	Date:	Job No:	Status:	Rev:					
	April 2022	P/101086	F1-Approved & accepted	V01	Sheet 01 of 01				



FRONT VIEW



VIEW 1-1'



PLAN VIEW

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	MCG	MPT	CCS

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 All Coordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TL40).

Client

Consultant

Project

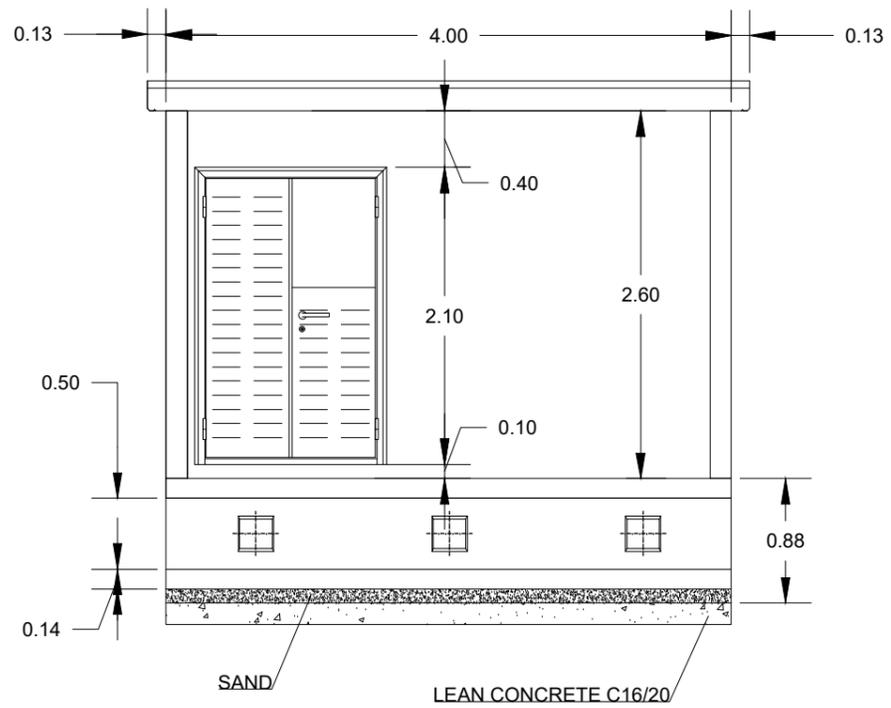
Drawing Title

SET TECHNICAL BUILDINGS
LEIXLIP CONFEEY BUILDINGS DETAIL

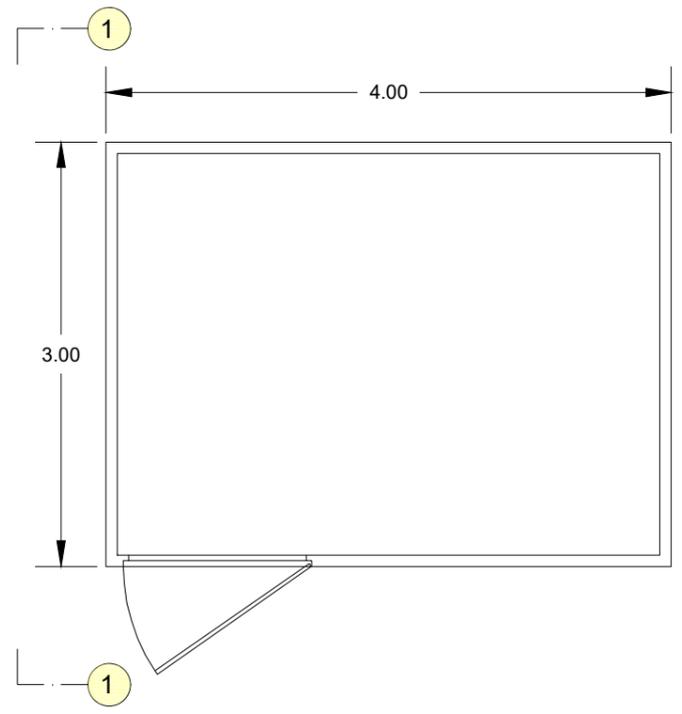
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Date:	Job No:	Status:	Rev:	Sheet:
April 2022	P/101086	F1-Approved & accepted	V01	01 of 02

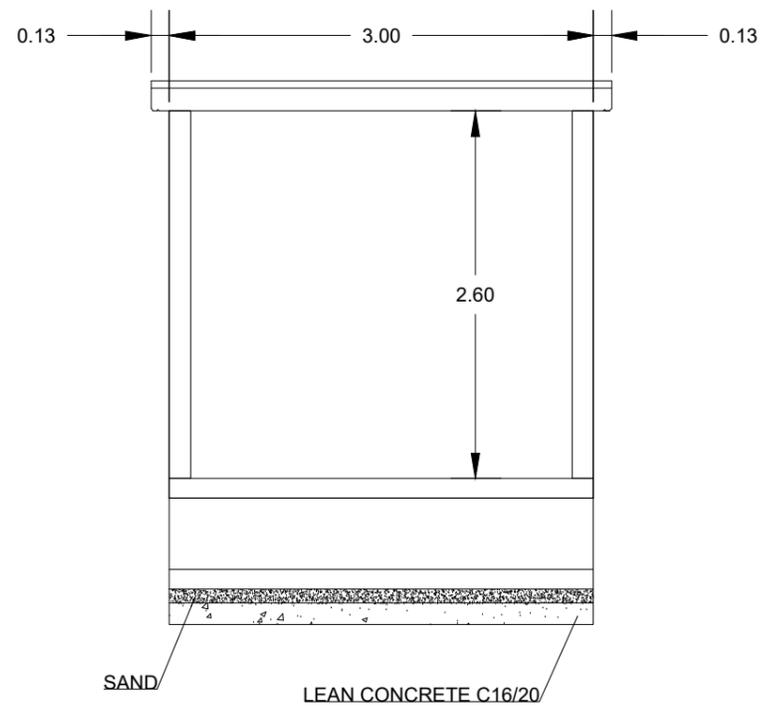
Drawing Number | Project | Originator | Discipline | Location | Type | Role | Number | Phase
 MAY MDC SET RS12 DR Z 0010 D



FRONT VIEW



PLANT VIEW



VIEW 1'-1'

TER BUILDING

REV	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY
V01	April 2022	PLANNING ISSUE	MCG	MPT	CCS

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Client

Consultant

Project

Drawing Title

SET TECHNICAL BUILDINGS
LEIXLIP CONFEEY BUILDINGS DETAIL

Scale: 1:20@ A3

Date:	Job No:	Status:	Rev:	Sheet:
April 2022	P/101086	F1-Approved & accepted	V01	01 of 02