

Appendix A.5.2

Structures Drawings

A.5.2 Structures Drawings

River Corrib Bridge – Drawings

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DESIGN REPORT

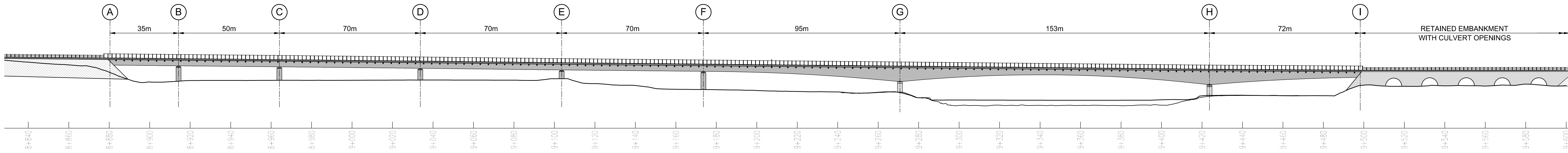
NOTES:

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- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.



PLAN

SCALE: 1:1000



ELEVATION

SCALE: 1:1000

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Galway County Council



An Roinn Iompair
Turasoireachta agus Spóirt
Department Transport, Tourism and Sport



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Job Title

N6 Galway City Ring Road

Scale

AS SHOWN @ A1

Date:

September 2016

I3	30/06/17	TP	PM	MS
I2	25/05/17	TP	PM	MS
I1	23/09/16	PD/FB	PM	MS
Issue	Date	By	Chkd	Appd

Drawing Title

Structure S08-04 River Corrib Bridge
General Arrangement
Sheet 1

Drawing Status

For Information

Job No
233985

Drawing No
GC08-1700-D-S08-04-001

Issue
13

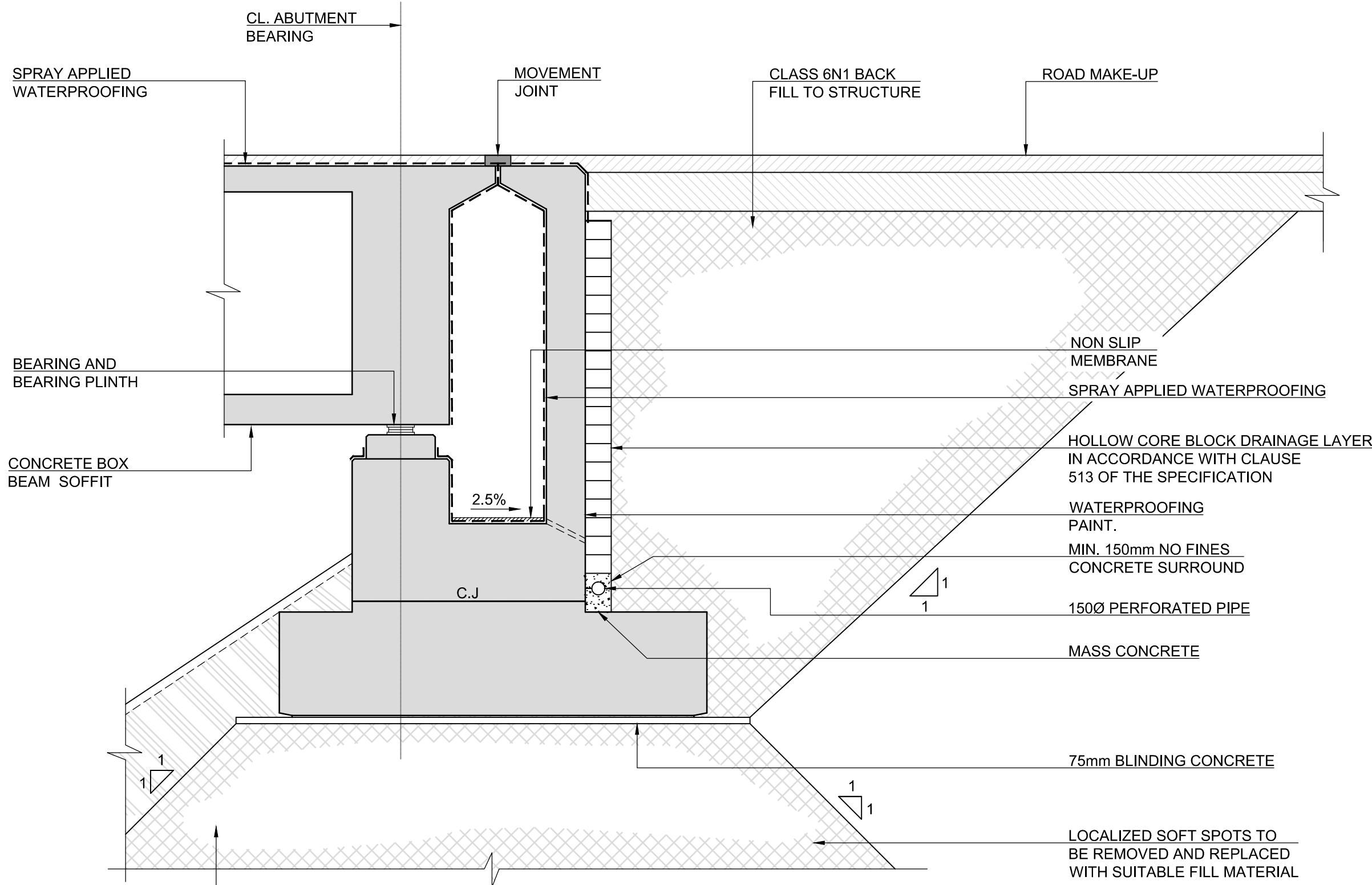
Do not scale

J:\233985\233985-0014 Internal\4-07 Drawings\4-02-R Hinchwaite\8 3 Design Revs\1700 STR\GC08-1700-D-S08-001-0014.dwg

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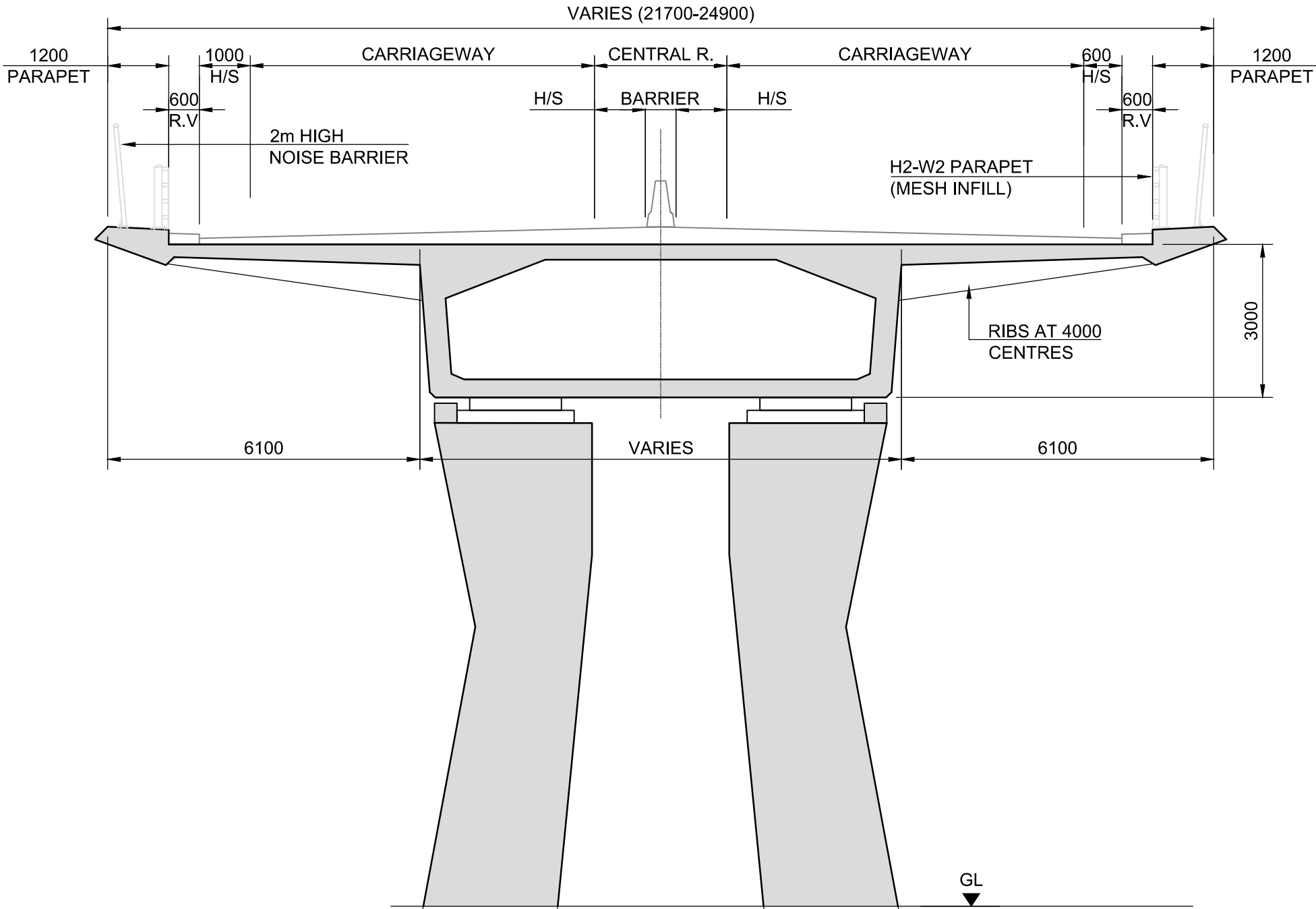
NOTES:

- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.



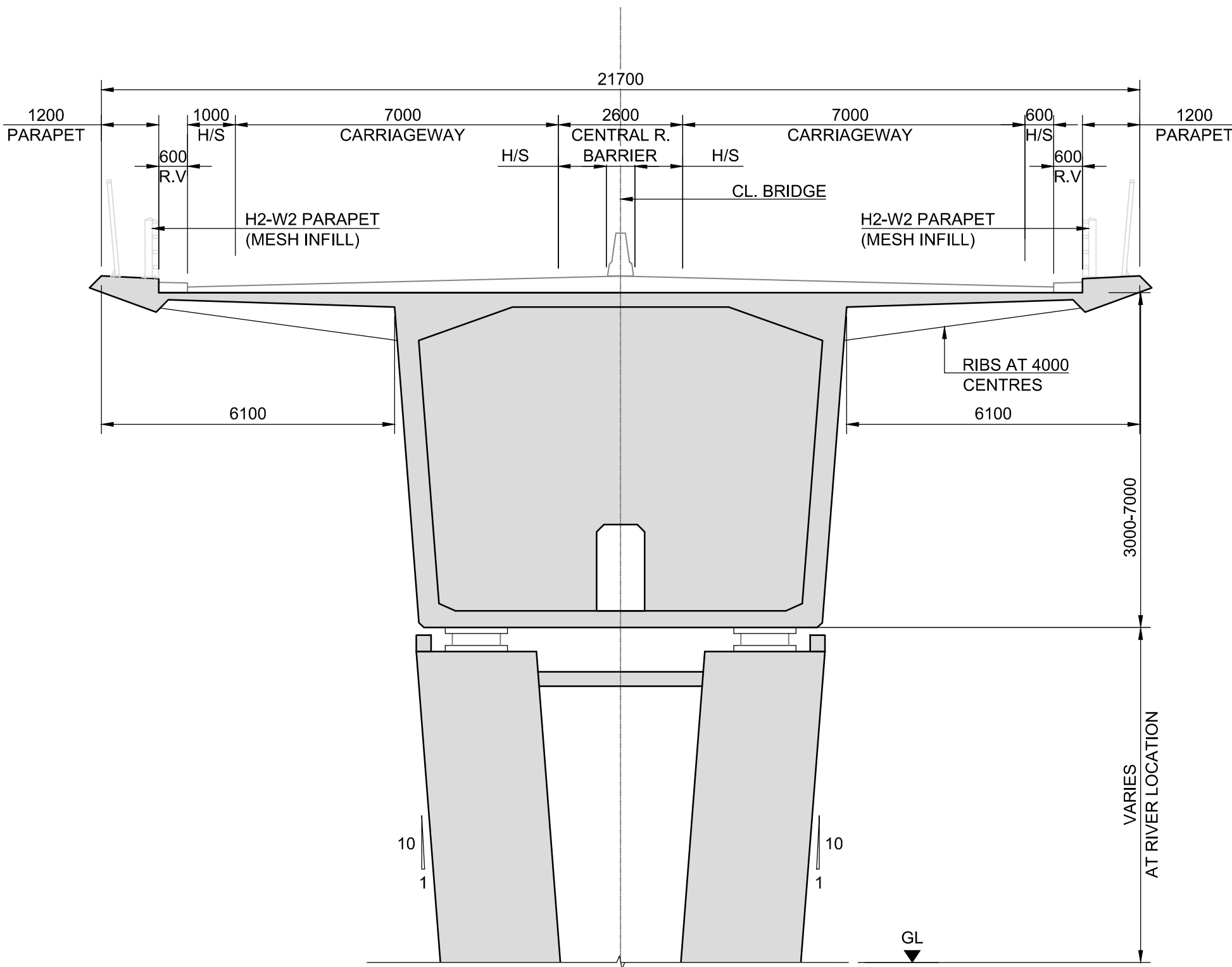
TYPICAL WEST ABUTMENT CROSS SECTION

SCALE: 1:50



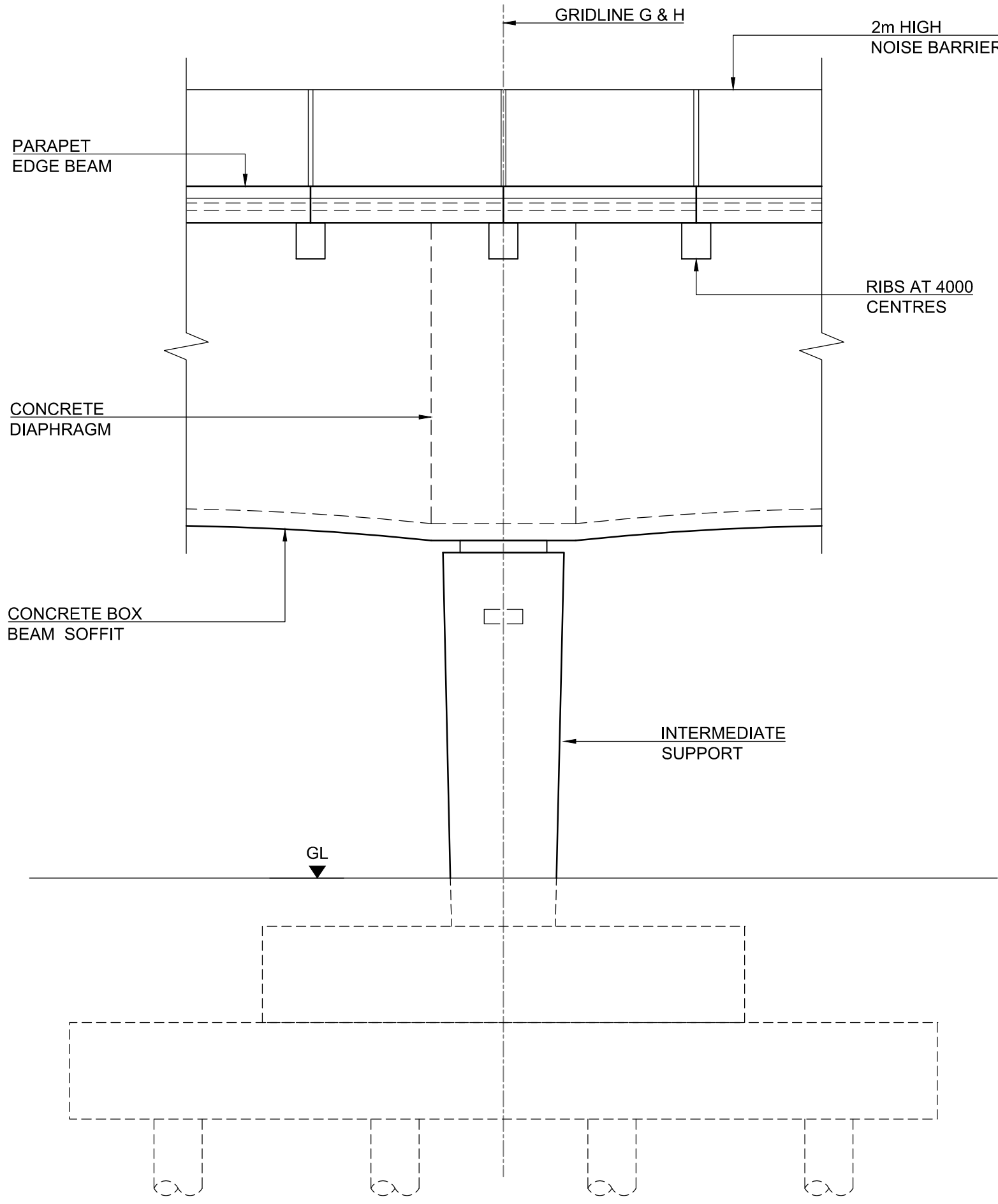
TYPICAL APPROACH-SPAN SUPPORT

SCALE: 1:100



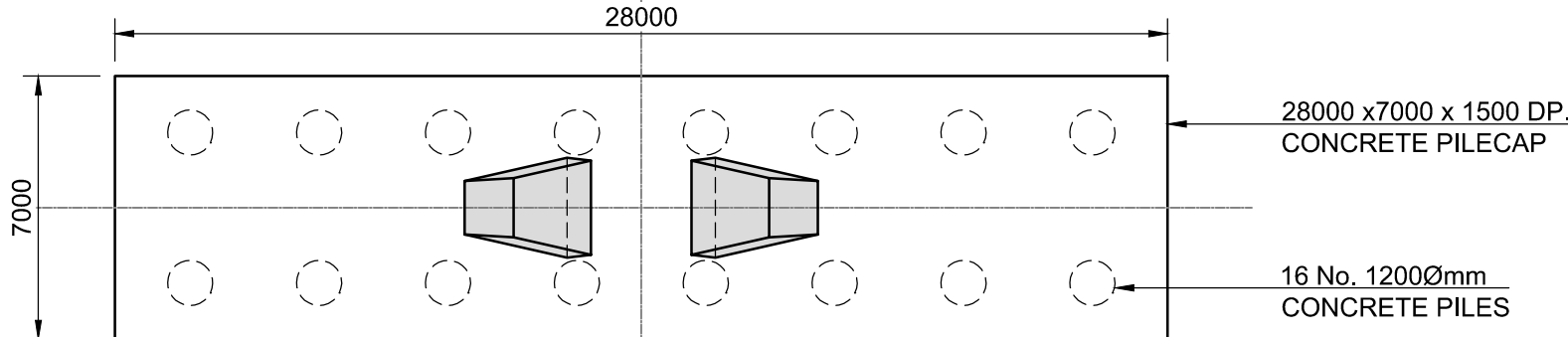
TYPICAL MAIN-SPAN CROSS SECTION

SCALE: 1:100



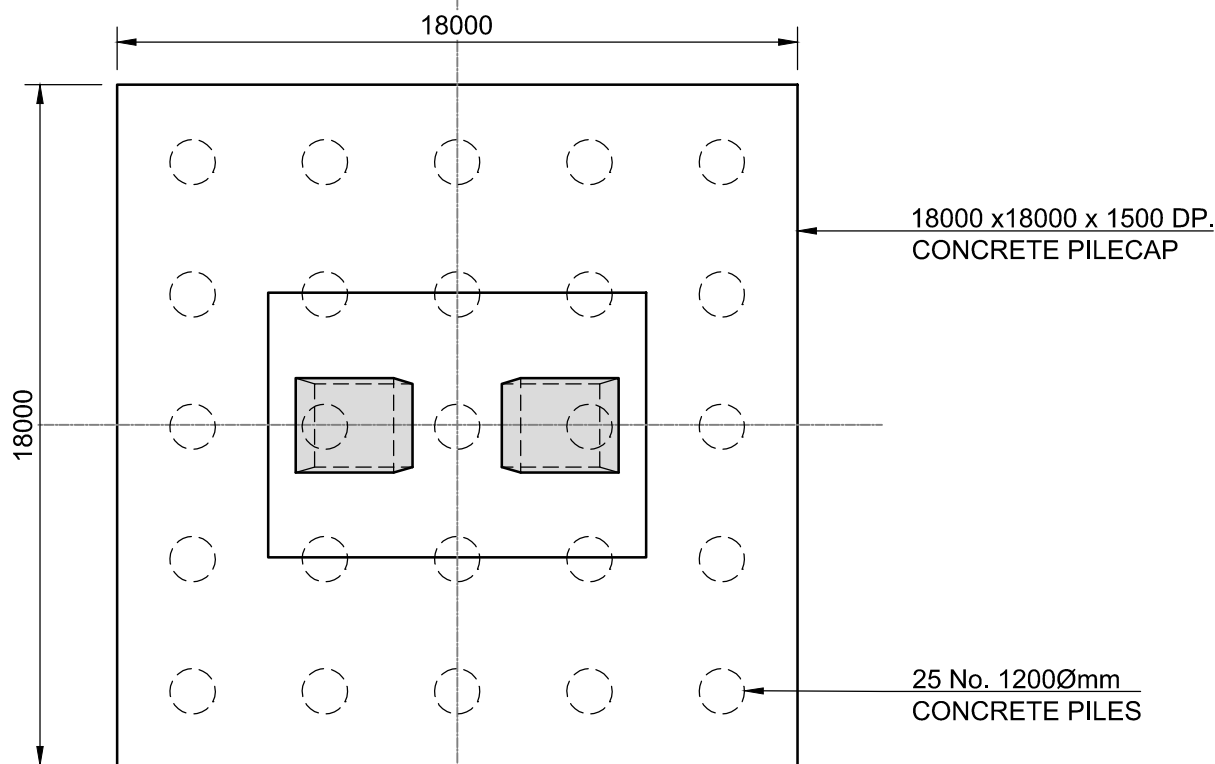
TYPICAL MAIN-SPAN INTERMEDIATE SUPPORT ELEVATION

SCALE: 1:100



PLAN ON TYPICAL INTERMEDIATE SUPPORT FOUNDATION

SCALE: 1:200



PLAN ON TYPICAL MAIN-SPAN INTERMEDIATE SUPPORT FOUNDATION

SCALE: 1:200

Clients

 **Comhairle Chontae na Gaillimhe**
Galway County Council

 **N6**
Galway City Transport Project

 **An Roinn Iompair**
Turasóireachta agus Spóirt

 **TIU**
Bonneagair Iompair Éireann

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Job Title
N6 Galway City Ring Road

Scale
AS SHOWN @ A1

Date:
November 2016

I3	28/06/17	TP	PM	MS
I2	22/05/17	TP	PM	MS
I1	23/09/2016	PD/FB	PM	MS
Issue	Date	By	Chkd	Appd

Drawing Title
Structure S08-04 River Corrib Bridge
General Arrangement
Sheet 2

Drawing Status
For Information

Job No
233985

Drawing No
GC08-1700-D-S08-04-002

Issue
I3



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Scale	AS SHOWN @ A1
Date:	September 2016

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I2	25/05/17	TP	PM	MS
I1	15/05/2016	TP	PM	MS
Issue	Date	By	Chkd	Appd

Drawing Status		
For Information		
Job No	Drawing No	Issue
233985	GCOB-1700-D-S08-04-004	I3

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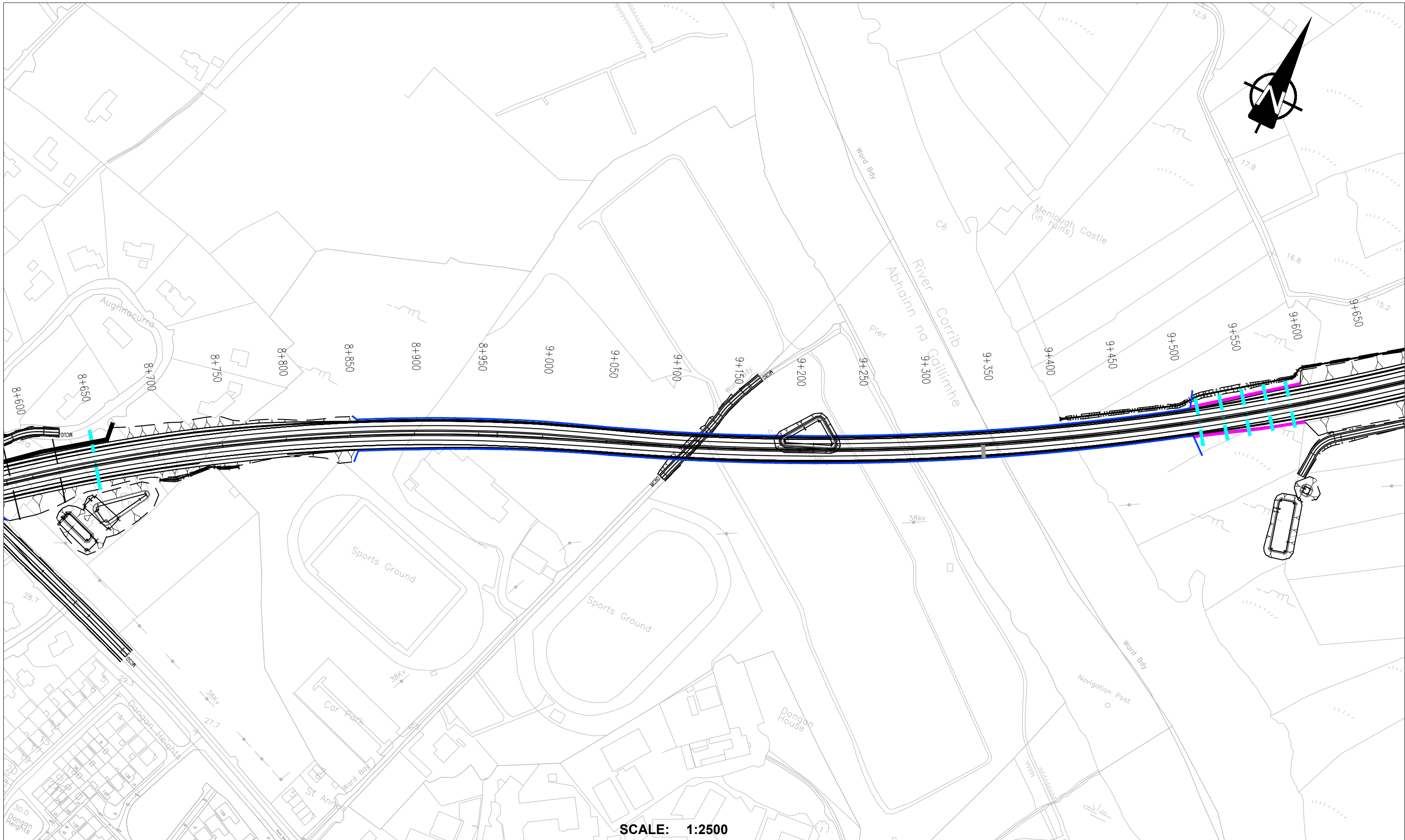
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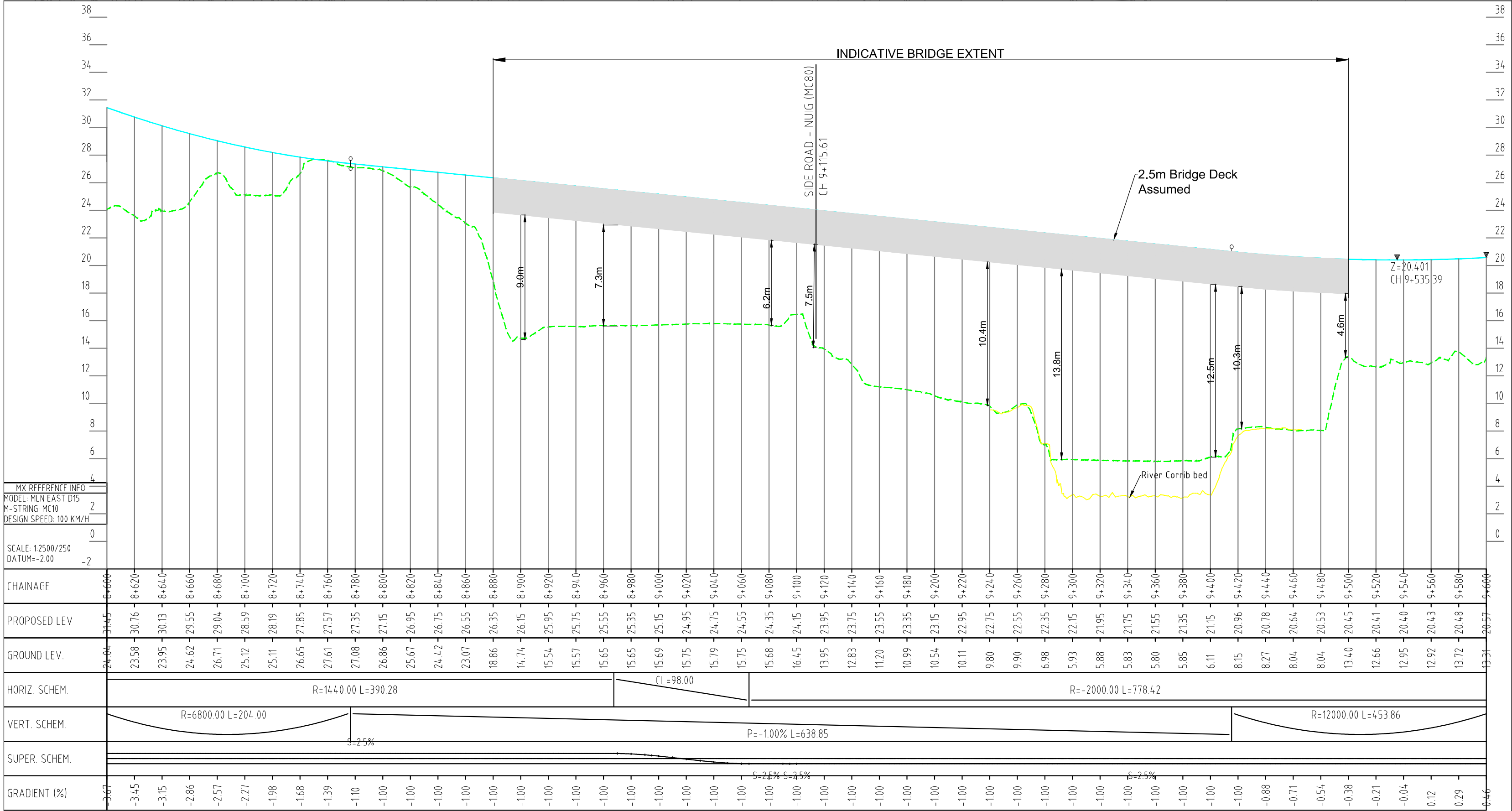
N

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P



SCALE: 1:2500



SCALE: 1:2500 H / 1:250 V @ A1

GCR - RIVER CORRIB BRIDGE CROSSING

PHASE 3 - DESIGN

Legend:

Plan view

Proposed Geometry Plan

Structure

Proposed Earth Retention Wall

Proposed Mammal Underpass

Proposed Attenuation Pond / Infiltration Basin

Profile view

Existing Ground Level

Proposed Road Level

Bridge Deck

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Nóta Séanta:
Tá an Dearadh ina bhfoirm dráacht, d'fhéadfai athraithe teacht air. Is mar toradh ar mheasúnaithe níos mionchruinne, ar staidéar leanúnach agus ar eolas ón bpobal a dhéanfaí athruithe teacht ar an Dearadh ina iomláine nó ar chuid de. D'fhéadfadh ag aon athrú ar an Dearadh tionchar a bheith aige ar an eolas eile.



Job Title
N6 Galway City Transport Project

Scale
As shown @ A1

Date:
May 2017

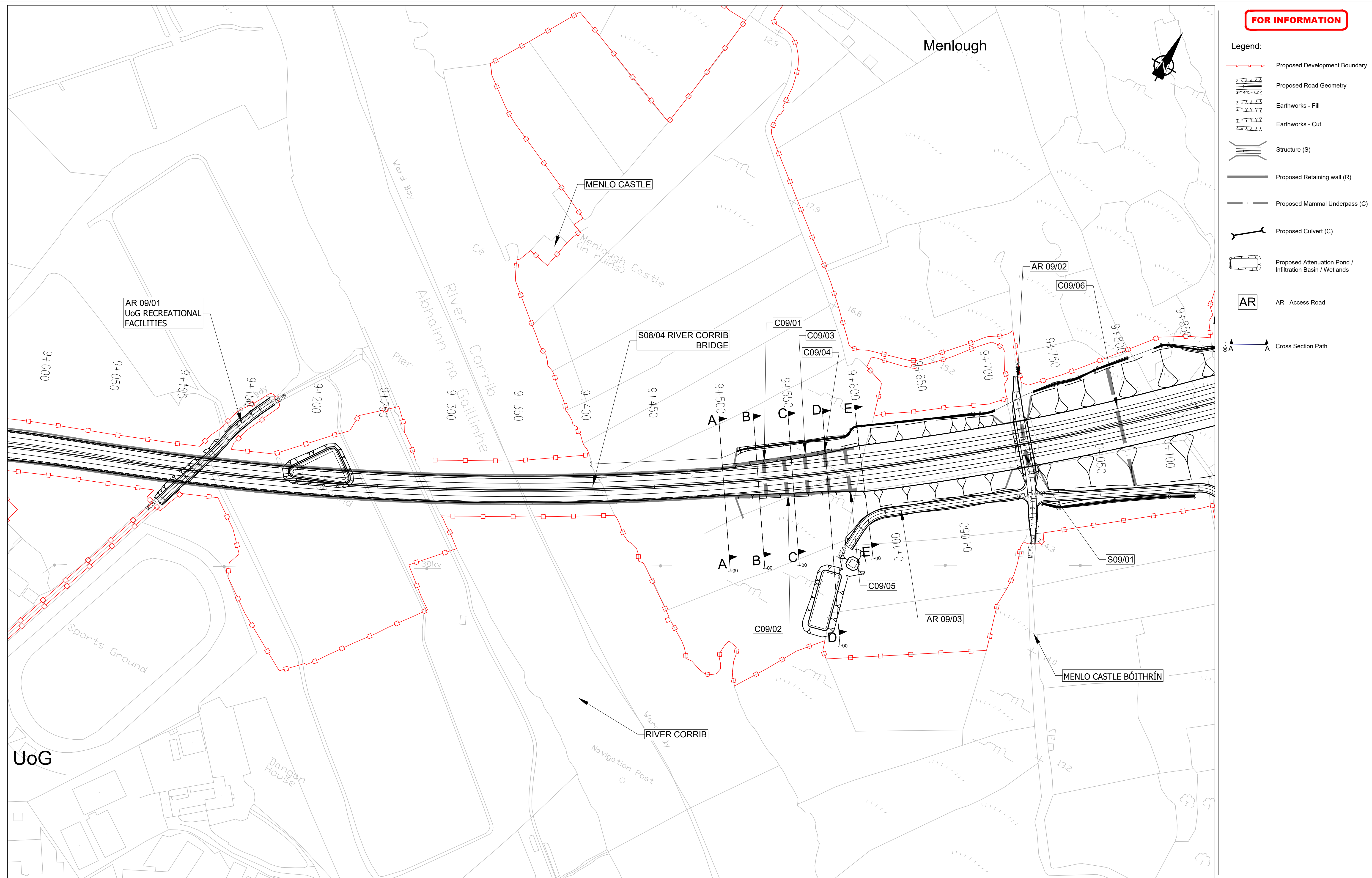
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I1	27/09/2016	GOD	HK	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Current Design
River Corrib Bridge
Plan & Profile

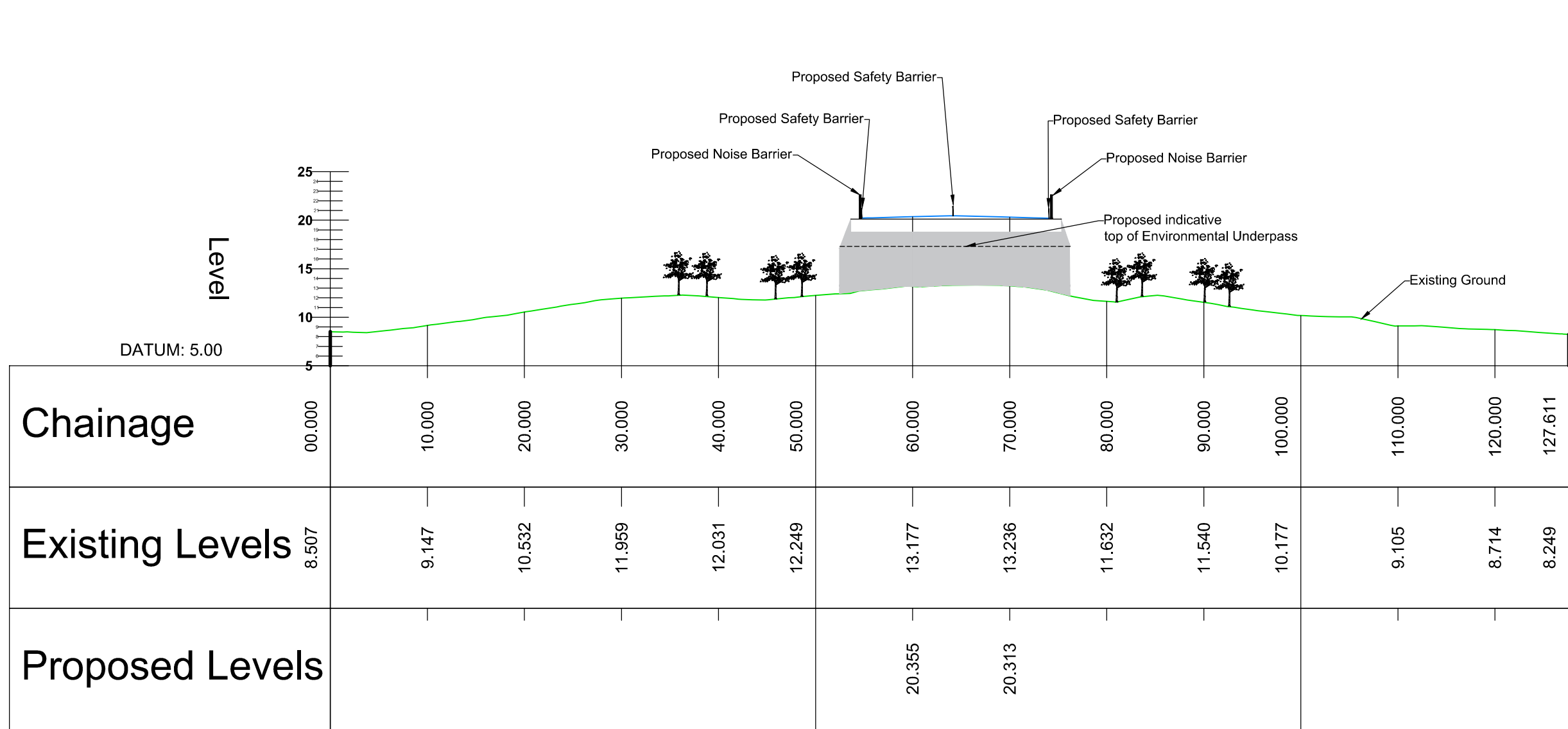
Drawing Status

For Information

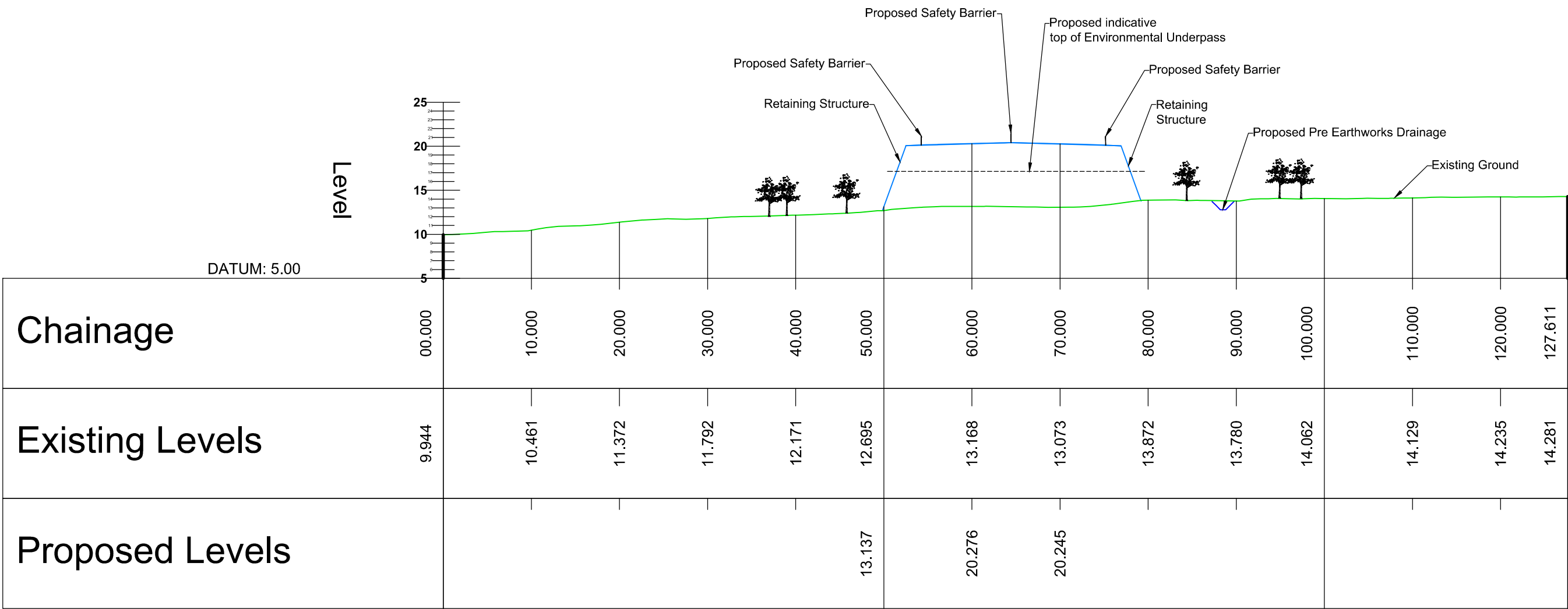
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233985-00	GCOB-SK-D-746	I1



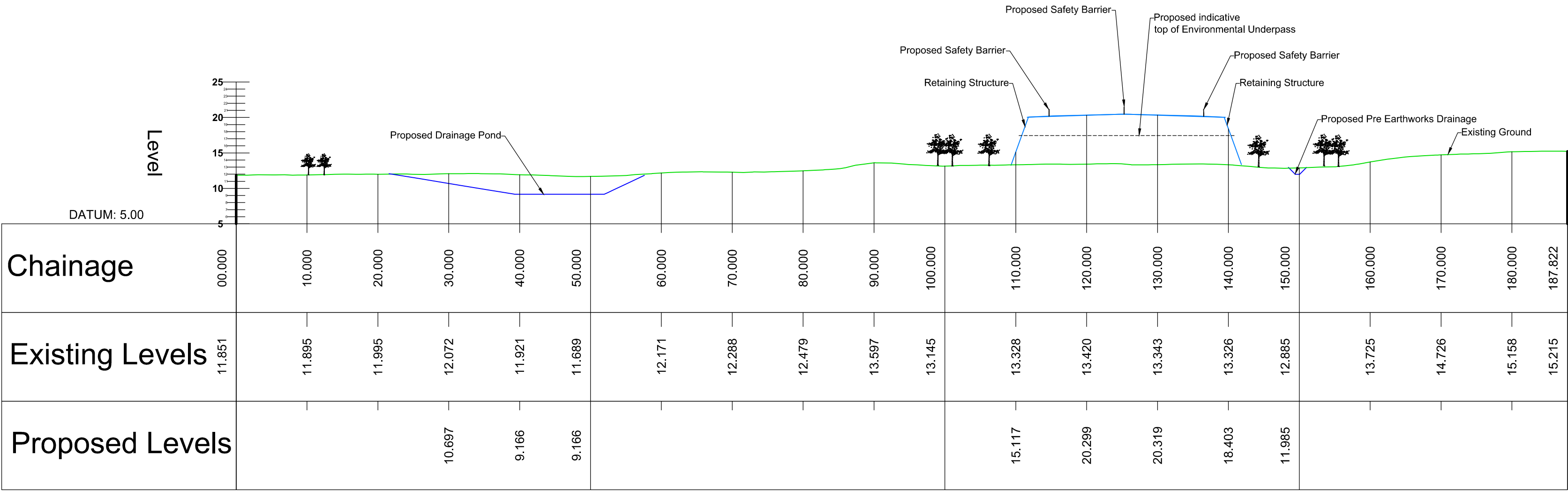
FOR INFORMATION



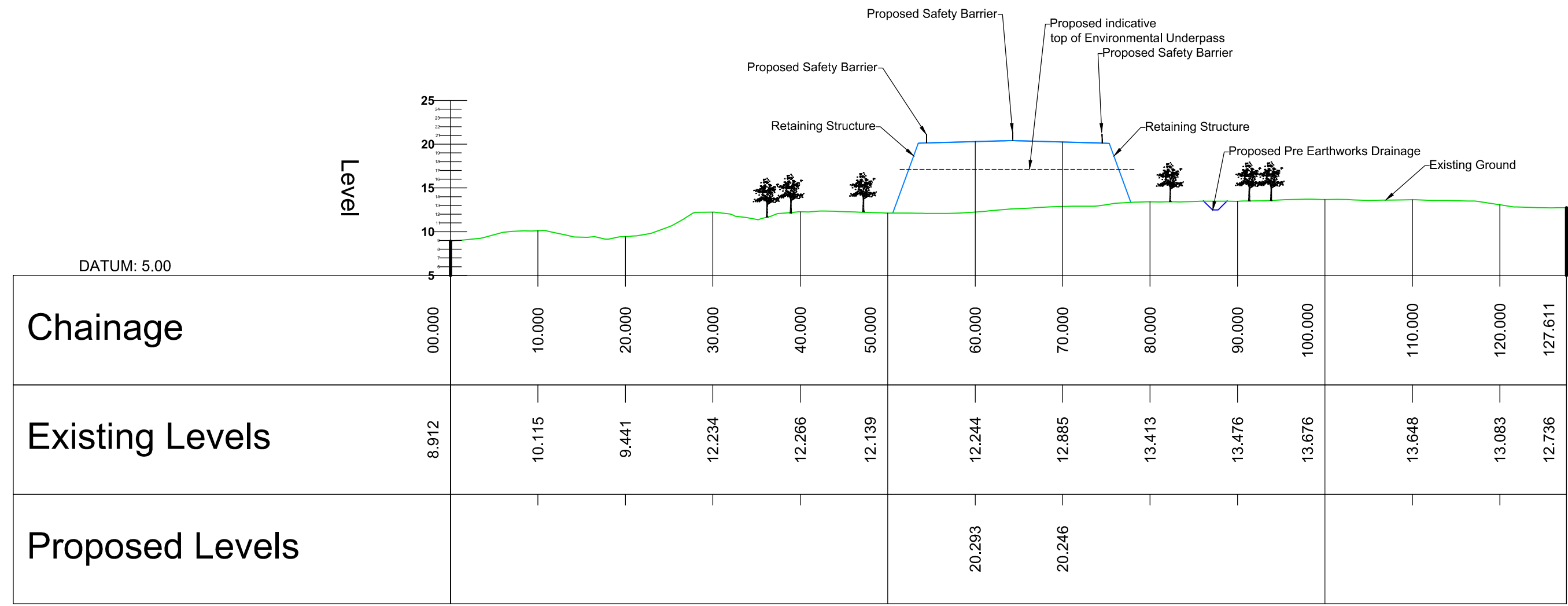
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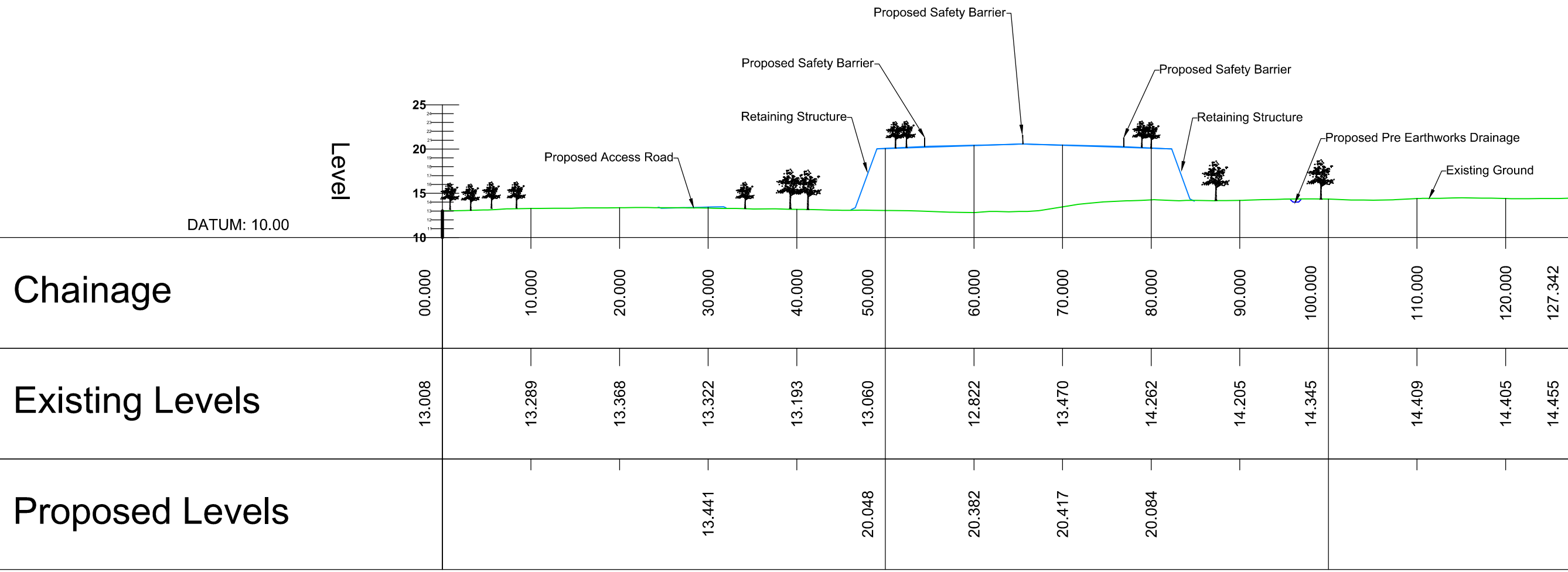
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CROSS SECTION D-D : CH 9+575



CROSS SECTION B-B : CH 9+525



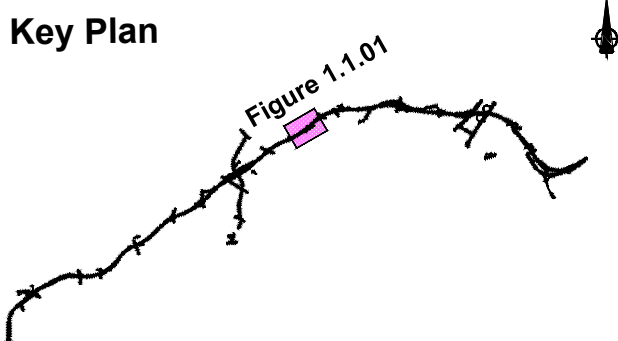
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Job Title
N6 Galway City Ring Road

Scale
1:1000 @ A3

Date:
August 2019

I1	30/08/2019	KJ	MH	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
**Proposed River Corrib Bridge
Eastern Approach Cross Section.
Sheet 2 of 2**

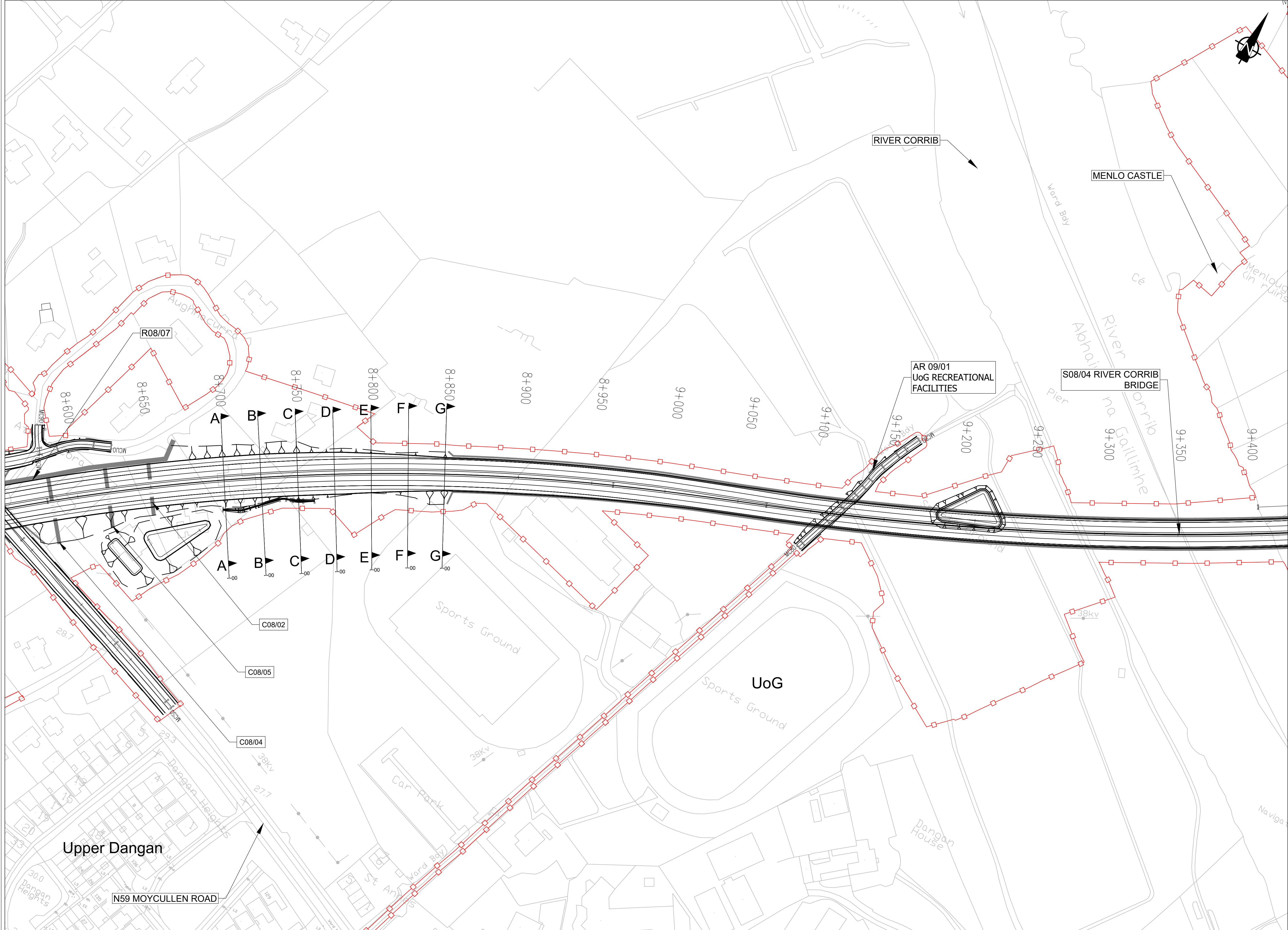
Drawing Status
For Information

Job No
233985

Drawing No
Figure 1.1.02

Issue
11

UoG Viaduct - Drawings



FOR INFORMATION

Legend:

Proposed Development Boundary

Proposed Road Geometry

Earthworks - Fill

Earthworks - Cut

Structure (S)

Proposed Retaining wall (R)

Proposed Mammal Underpass (C)

Proposed Culvert (C)

Proposed Attenuation Pond / Infiltration Basin / Wetlands

AR

AR - Access Road

Cross Section Path

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Clients

An Roinn Iompair
Department of Transport

Tionscadal Éireann
Project Ireland
2040

Comhairle Chontae na Gaillimhe
Galway County Council

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Job Title

N6 Galway City Ring Road

Scale

1:2500 @ A3

Date:

March 2025

I2

31/03/2025

KJ

MH

EMC

I1

30/08/2019

KJ

MH

EMC

Issue

Date

By

Chkd

Appd

Drawing Title

Proposed River Corrib Bridge
Western Approach @ UoG Plan Layout
Sheet 1 of 3

Drawing Status

For Information

Job No

233985

Drawing No

Figure 1.2.01

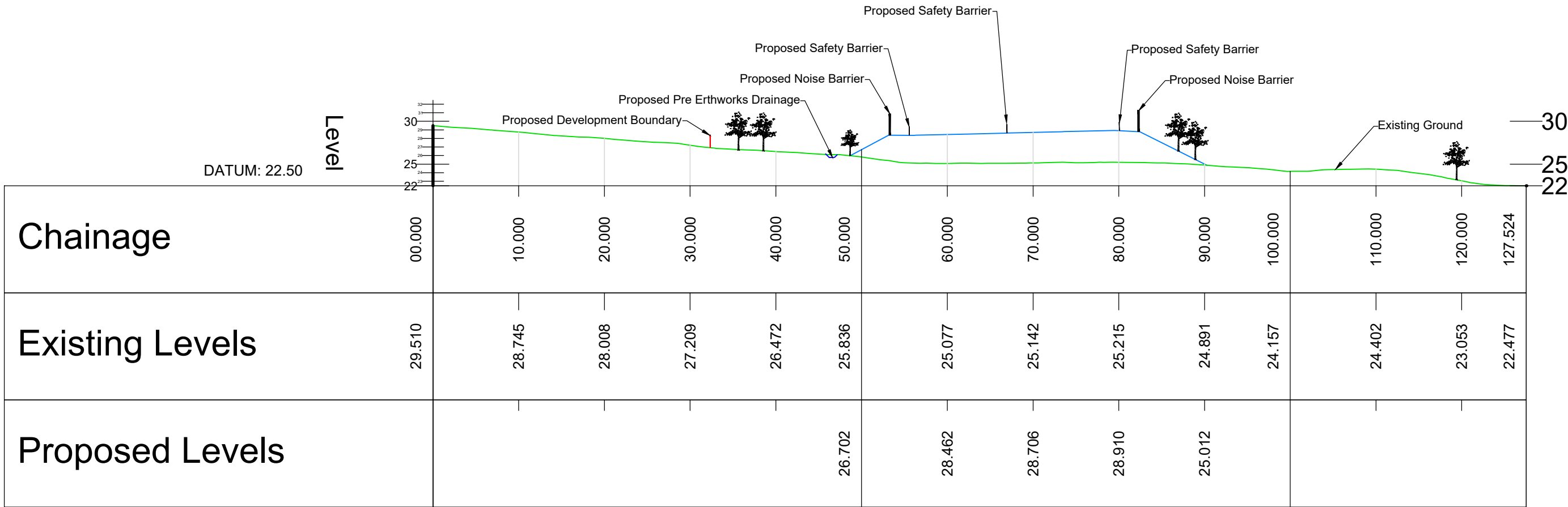
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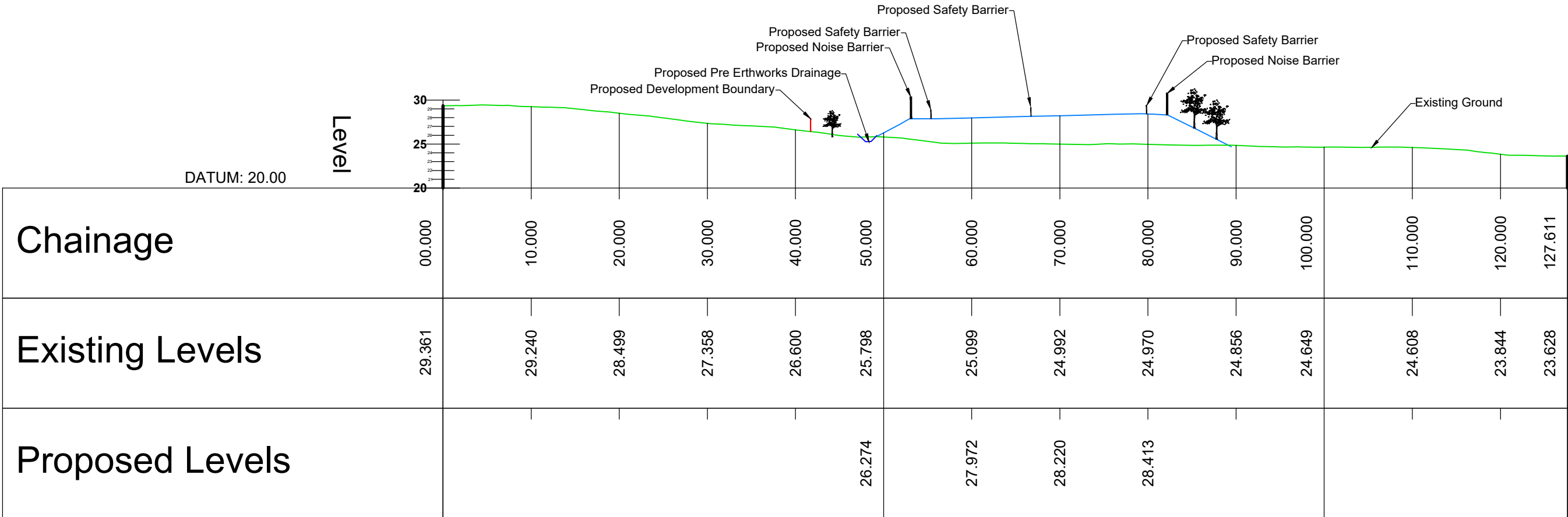
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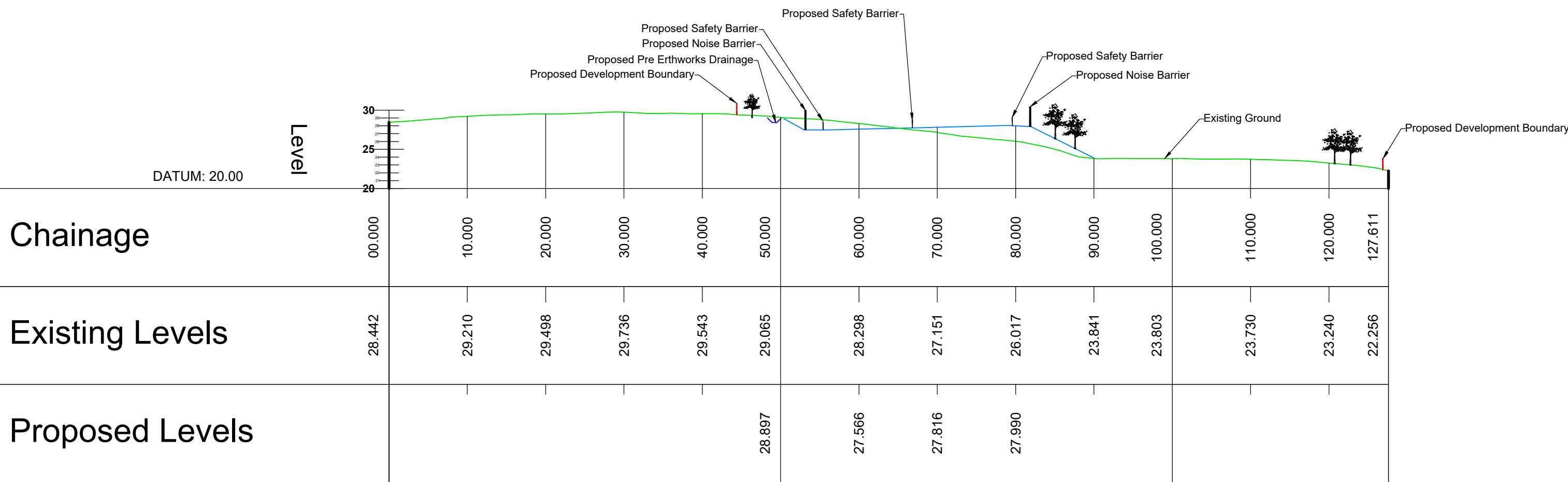
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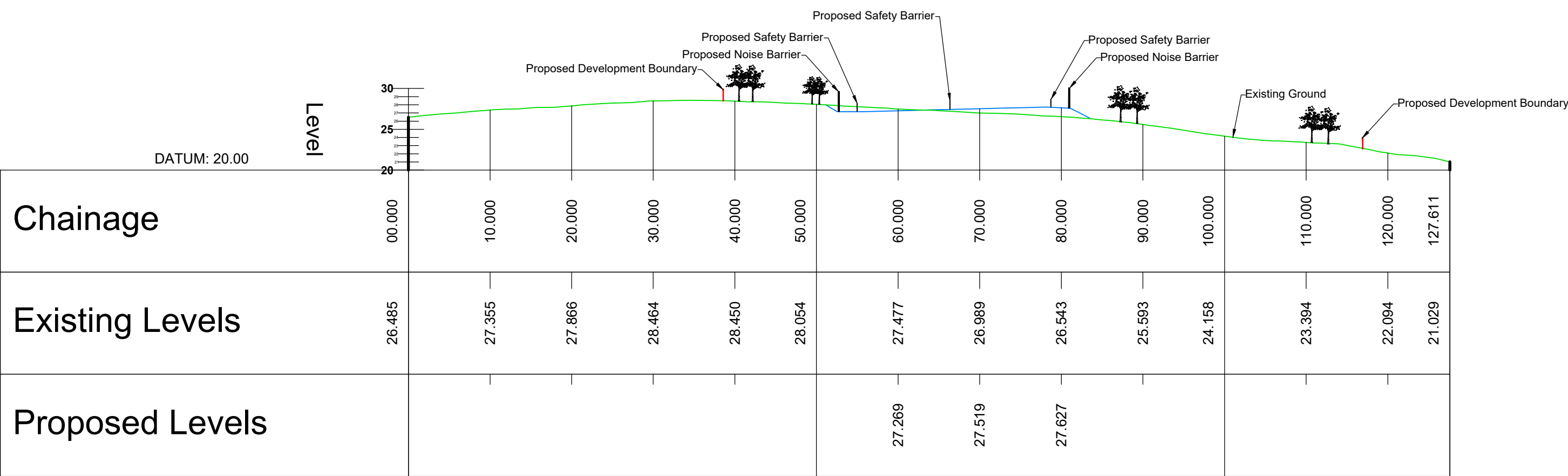
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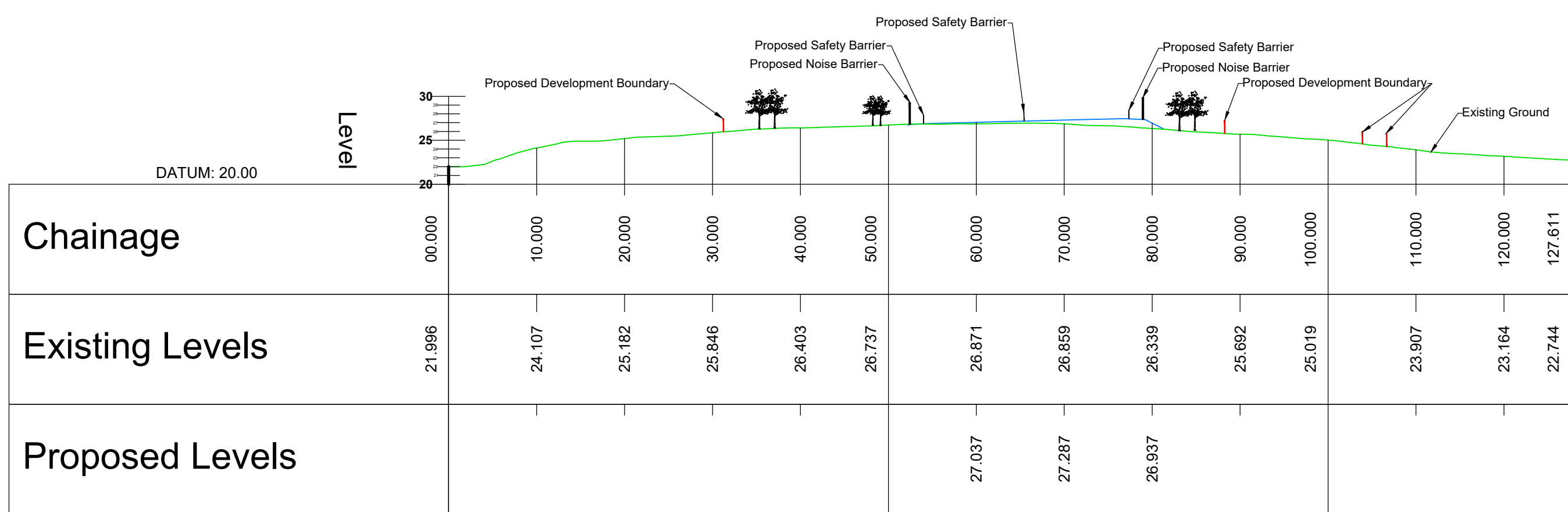
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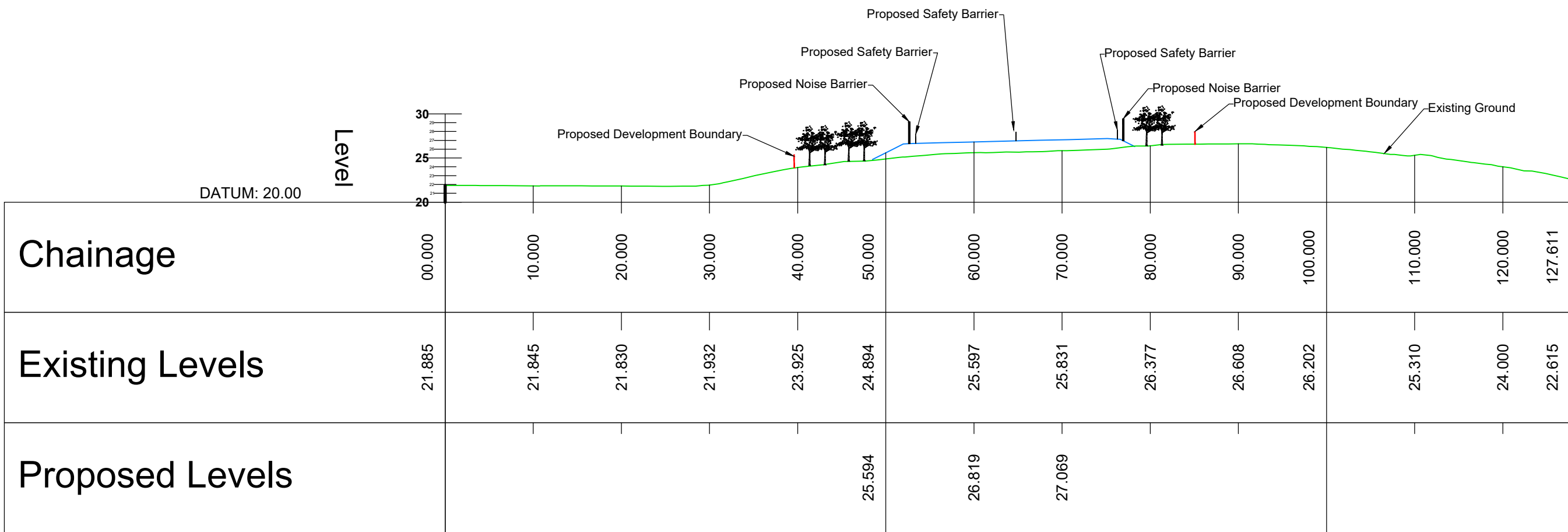
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CROSS SECTION D-D : CH 8+775

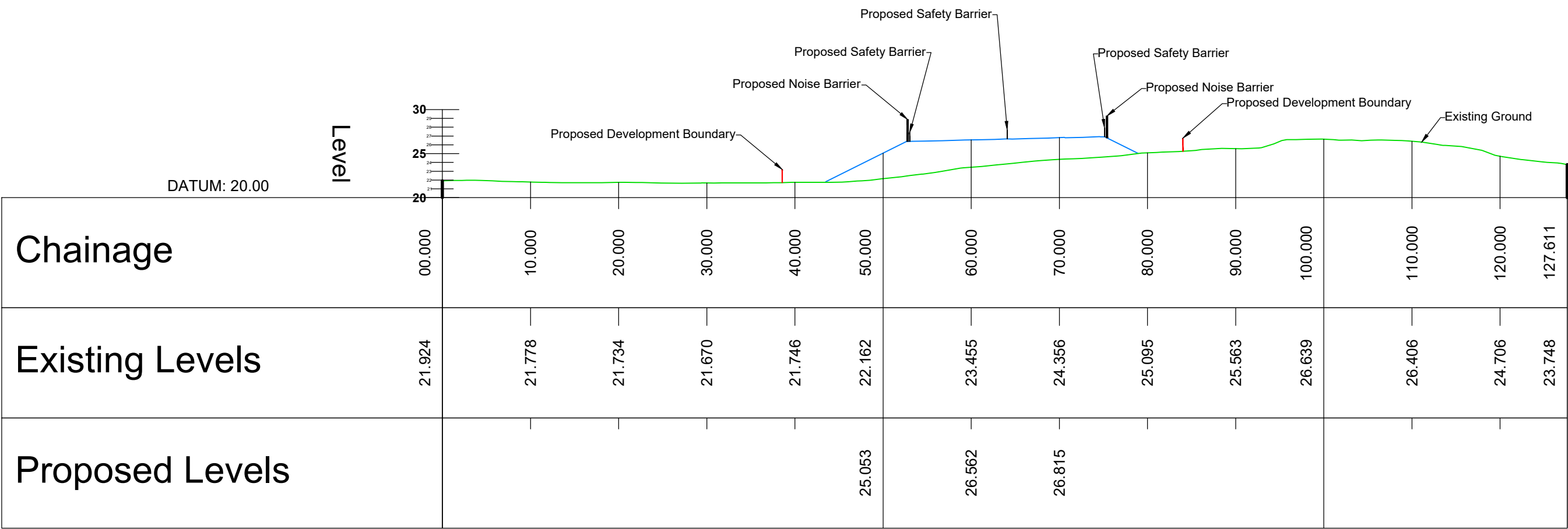


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CROSS SECTION F-F : CH 8+825

FOR INFORMATION



CROSS SECTION G-G: CH 8+850

Clients

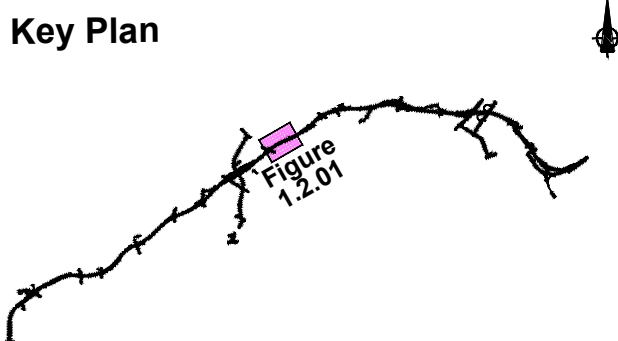
An Roinn Iompair
Department of Transport

Tionscadal Éireann
Project Ireland
2040

Galway City
Transport Project

Comhairle Chontae na Gaillimhe
Galway County Council

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Bonnasgar Iompair Éireann
Transport Infrastructure Ireland



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Job Title

N6 Galway City Ring Road

Scale

1:1000 @ A3

Date:

March 2025

I2	31/03/2025	KJ	MH	EMC
I1	30/08/2019	KJ	MH	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Proposed River Corrib Bridge
Western Approach @ UoG
Cross Section. Sheet 3 of 3

Drawing Status

For Information

Job No	Drawing No	Issue
233985	Figure 1.2.03	I2

Menlough Viaduct – Drawings

	2D-RESISTIVITY PROFILE
	SEISMIC REFRACTION PROFILE
	LIMESTONE PAVEMENT
	TURLOUGH

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2. ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

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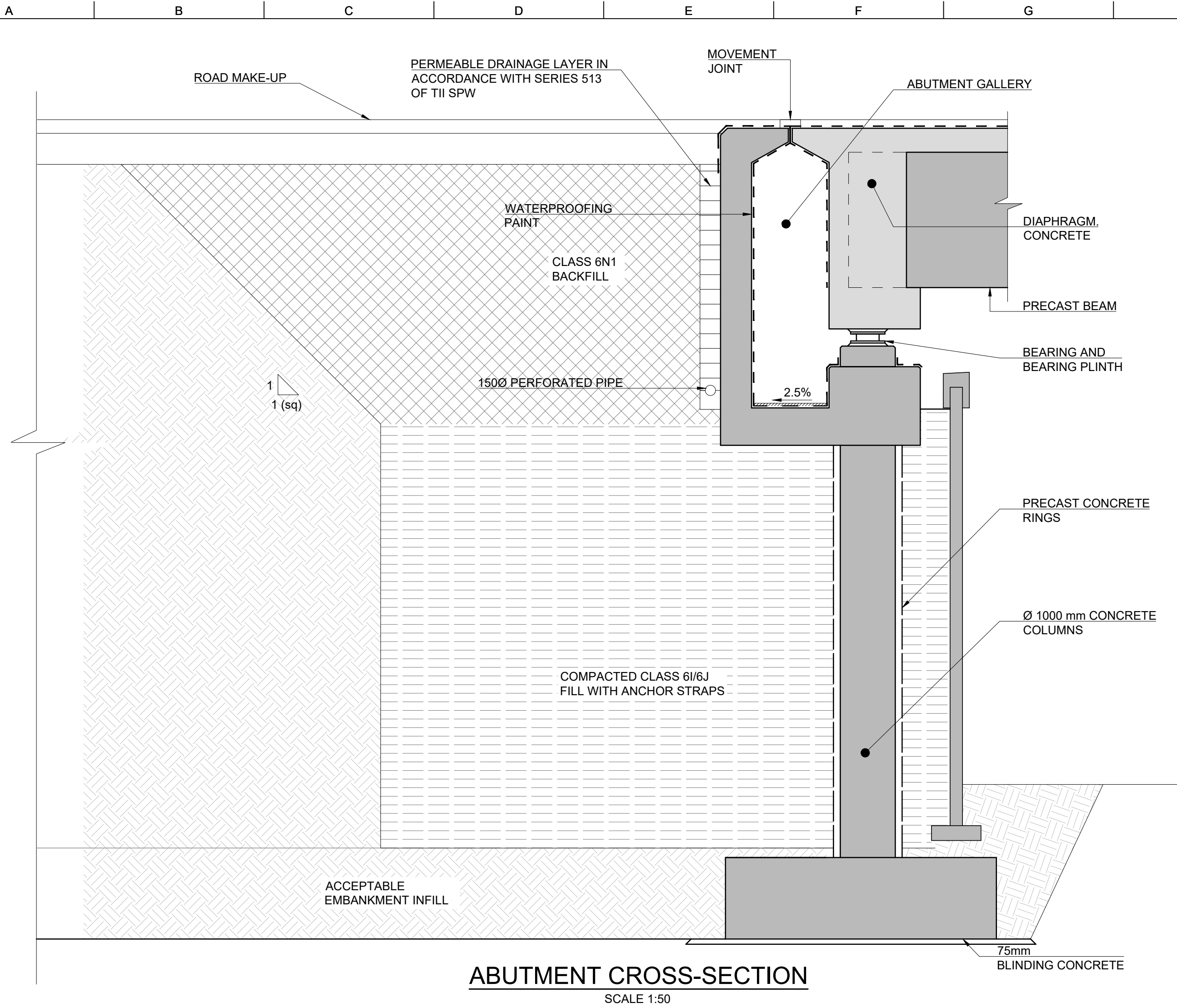
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Date: September 2016

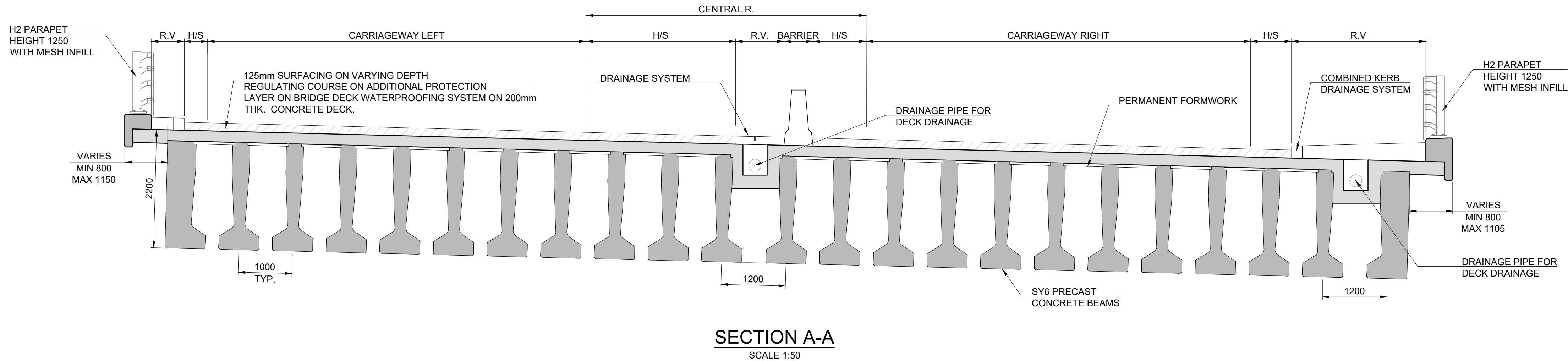
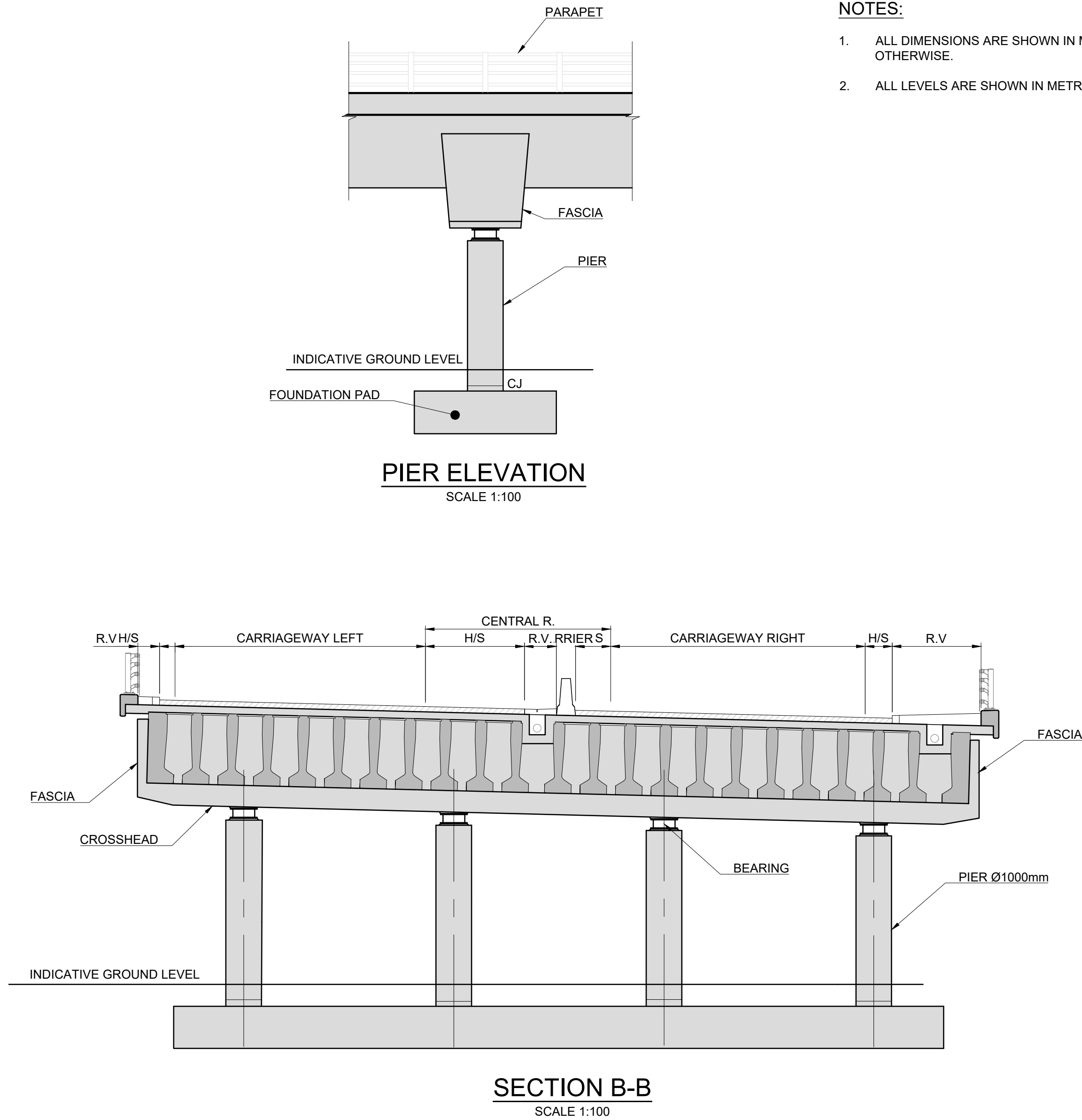
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I3	18/06/2017	LM	AP	PM
I2	17/05/2017	LM	AP	PM
I1	24/10/2016	LM	AP	PM
Issue	Date	By	Chkd	Appd

Job No 233985	Drawing No GCOB-1700-D-S10-01-001	Issue I6
-------------------------	---	--------------------

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BRIDGE DECK CROSS SECTION DIMENSIONS (ALONG INCREASING CHAINAGE) [mm]													
SECTION	PARAPET	RAISED VERGE	HARD SHOULDER (LEFT)	CARRIAGEWAY (LEFT)	HARD STRIP (LEFT)	RAISED VERGE	BARRIER	HARD STRIP (RIGHT)	CARRIAGEWAY (RIGHT)	HARD SHOULDER (RIGHT)	RAISED VERGE	PARAPET	TOTAL
WEST ABUT ch 10+097	500	600	500	7000	3500	1000	600	1000	7000	500	3600	500	26300
cH 10+200	500	600	500	7000	3500	1000	600	1000	7000	500	3600	500	26300
EAST ABUT ch 10+415	500	600	500	7000	1700	1000	600	1000	7000	500	3600	500	24500



- NOTES:**
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 - ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

DESIGN REPORT

Clients



Comhairle Chontae na Gaillimhe
Galway County Council



Galway City
Transport Project



An Roinn Iompair
Turasóireachta agus Spóirt



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Job Title

N6 Galway City Ring Road

Scale

As Shown

Date

September 2016

I5	04/10/2017	TP	AP	PM
I4	18/07/2017	TP	AP	PM
I3	30/06/2017	LM	AP	PM
I2	16/05/2017	LM	AP	PM
I1	24/10/2016	LM	AP	PM
Issue	Date	By	Chkd	Appd

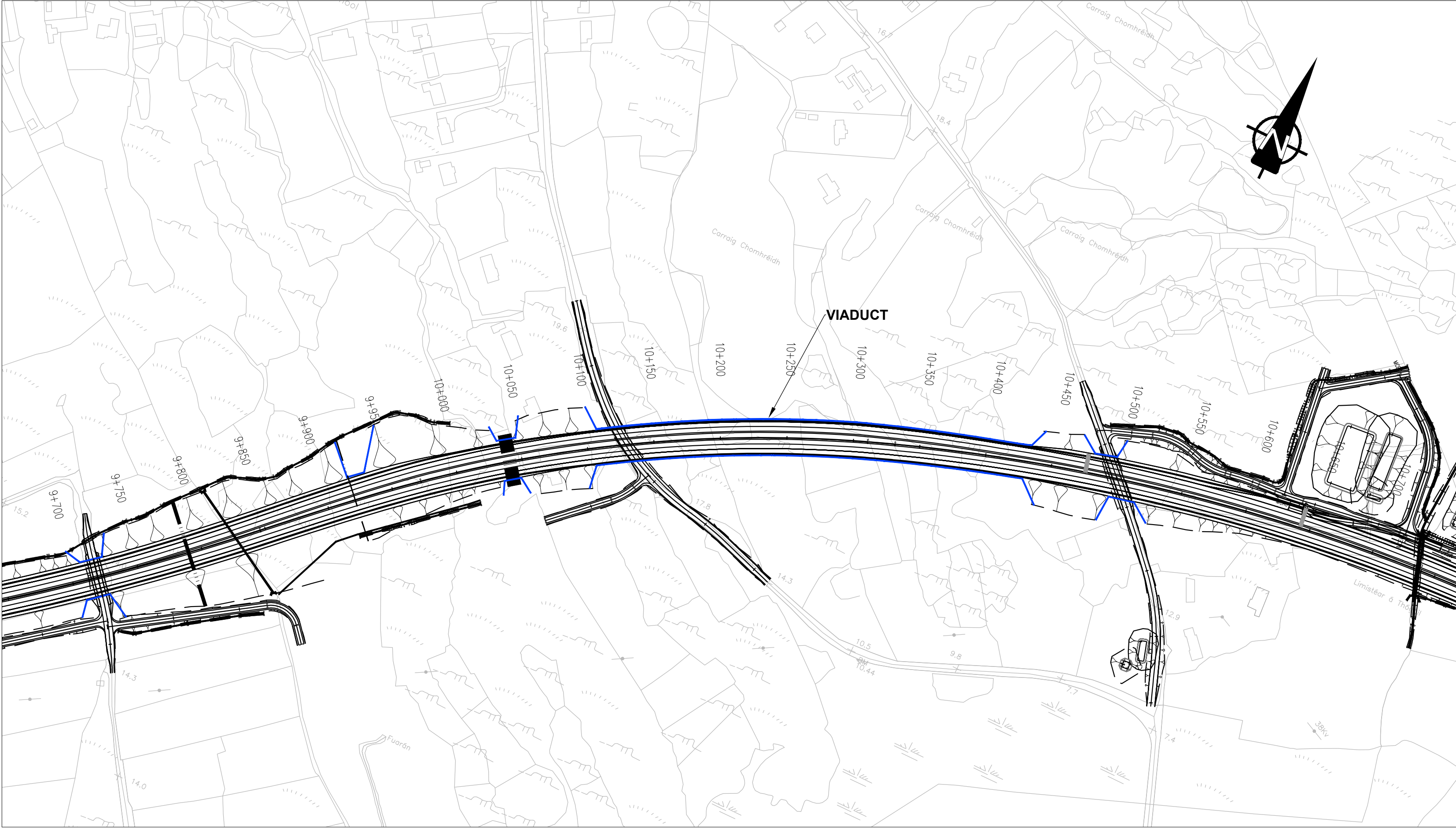
Drawing Title

S10-01 Menlough Viaduct
Sheet 2

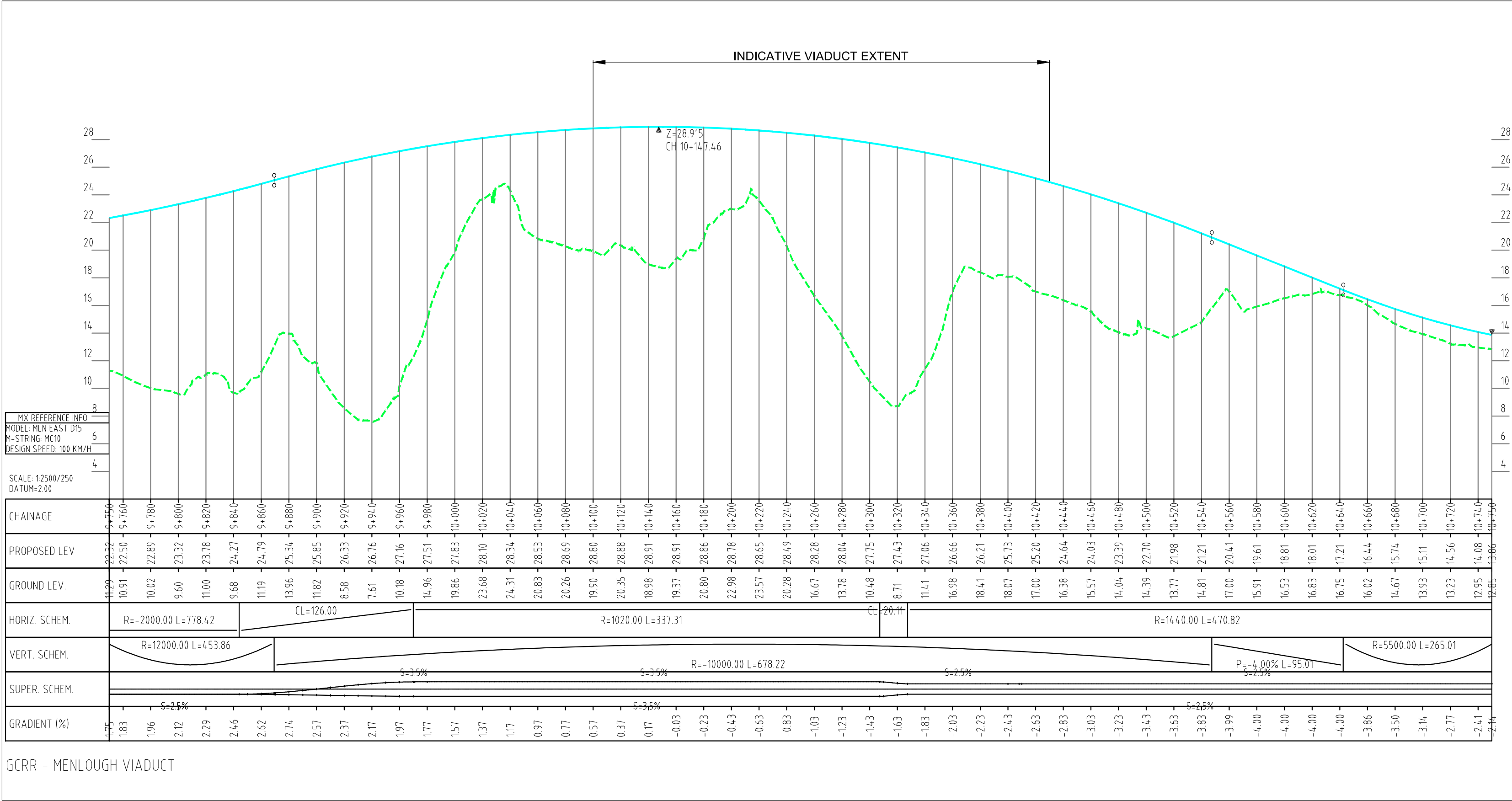
Drawing Status

For Information

Job No	Drawing No	Issue
233985	GCOB-1700-D-S10-01-002	I5



PLAN: SCALE 1:2500

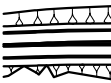


PROFILE: SCALE H 1:2500 / V 1:250

PHASE 3 - DESIGN

Legend:

Plan view



Current Design



Structure

Profile view



Existing Ground Level



Proposed Road Level

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Job Title
N6 Galway City Transport Project

Scale
AS SHOWN @ A1

Date:
May 2017

I4	10/05/2017	GOD	HK	EMC
I3	21/12/2016	GOD	HK	EMC
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I1	09/05/2016	GOD	HK	EMC
Issue	Date	By	Chkd	Appd

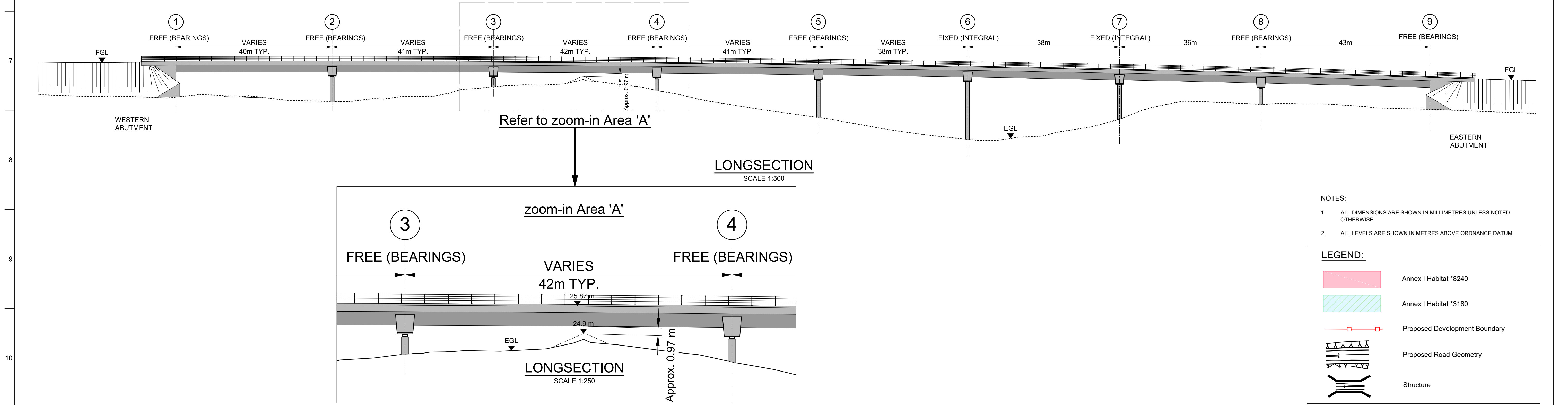
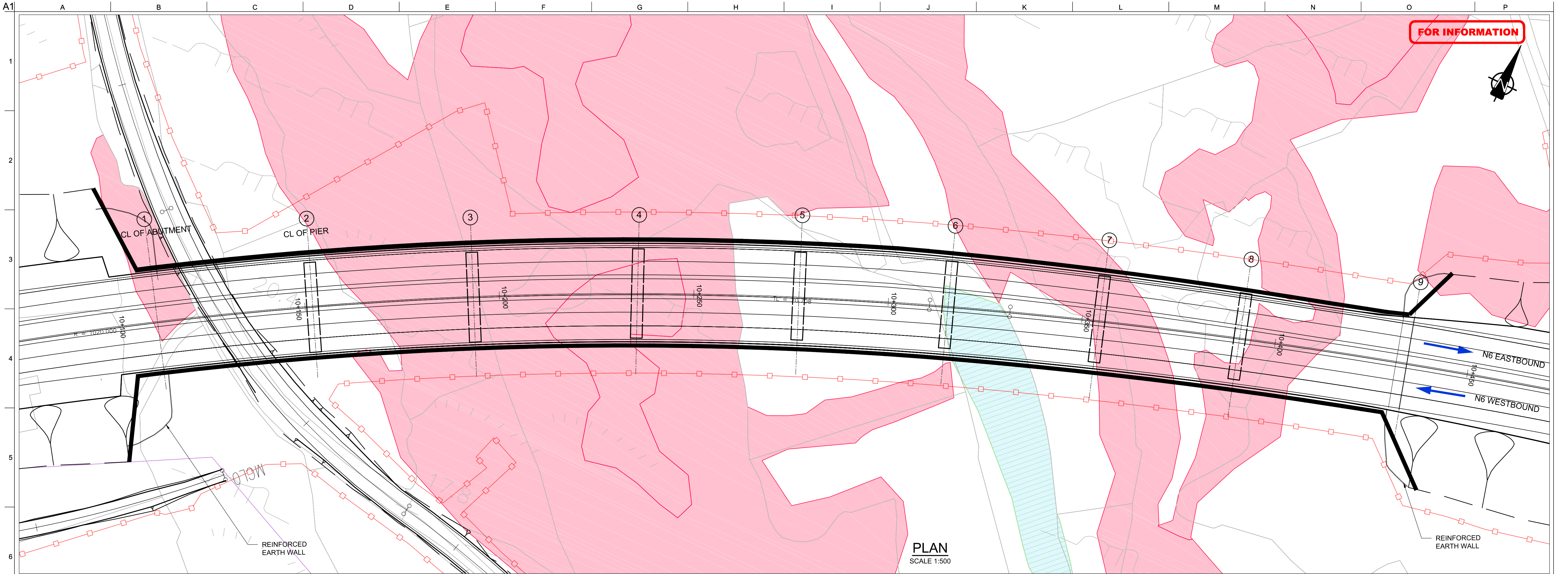
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Current Design
Menlough Viaduct

Plan & Profile

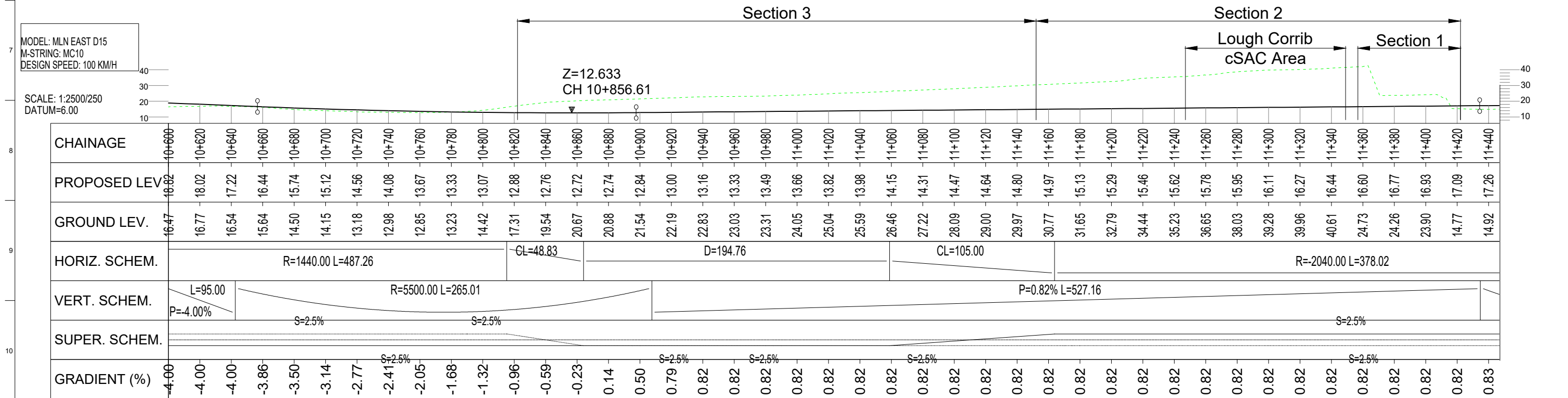
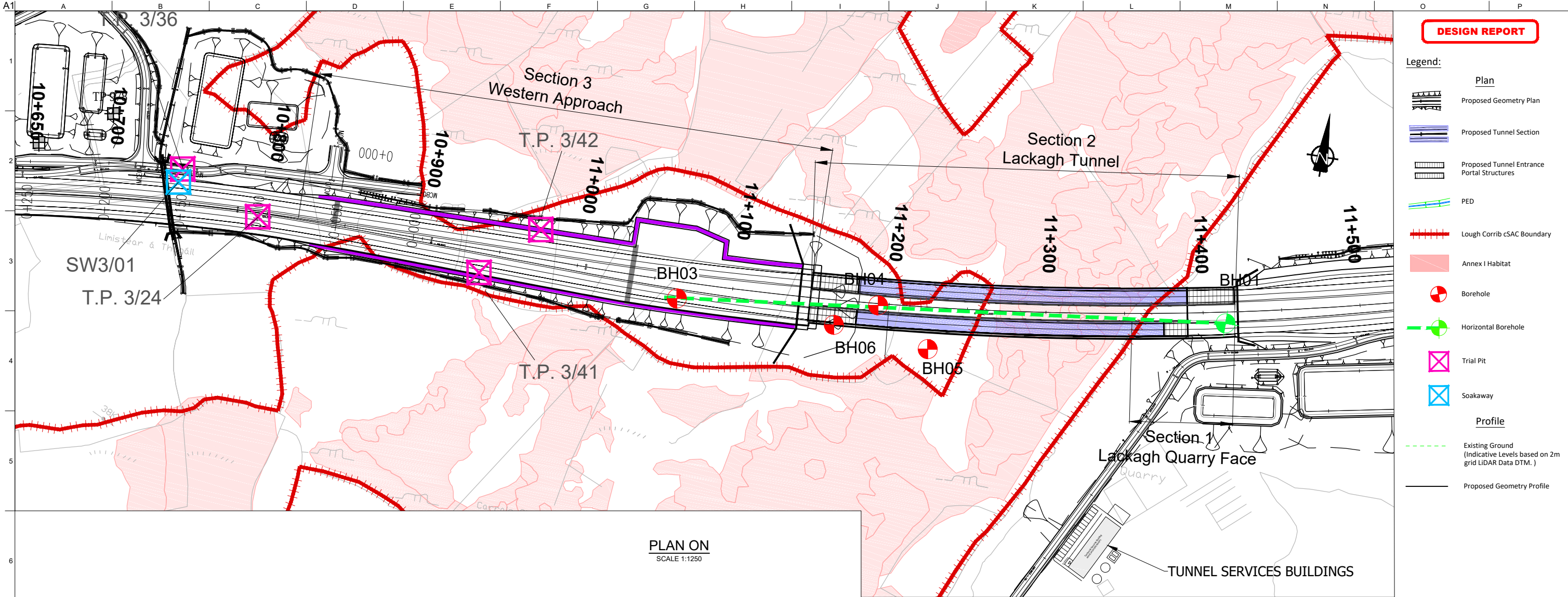
Drawing Status

For Information

Job No	Drawing No	Issue
233985-00	GCOB-SK-D-672	I4



Lackagh Tunnel – Drawings



San áireamh tá sonraíocht Shuirbhíreachtóirí Ordánais Éireann arna atáirgeadh faoi Cheadúnas OSI Uimh. 2010/17CCMA/Comhairle Contae na Gaillimhe. Sárúinn atáirgeadh neamhdaraithe cóipeacht Shuirbhíreachtóirí Ordánais Éireann agus Rialtas na hÉireann. © Suirbhíreachtóirí Ordánais Éireann, 2010.

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Clients

Comhairle Chontae na Gaillimhe
Galway County Council

Galway City Transport Project

ARUP

Consultant

Job Title
N6 Galway City Ring Road

Scale
1:2500 @ A3

Date
February 2017

Drawing Title
Lackagh Tunnel and Western Approach
General Plan & Profile

Drawing Status

For Information

Job No
233985

Drawing No
GCOB-1700-D-S11-01-001

Issue
12

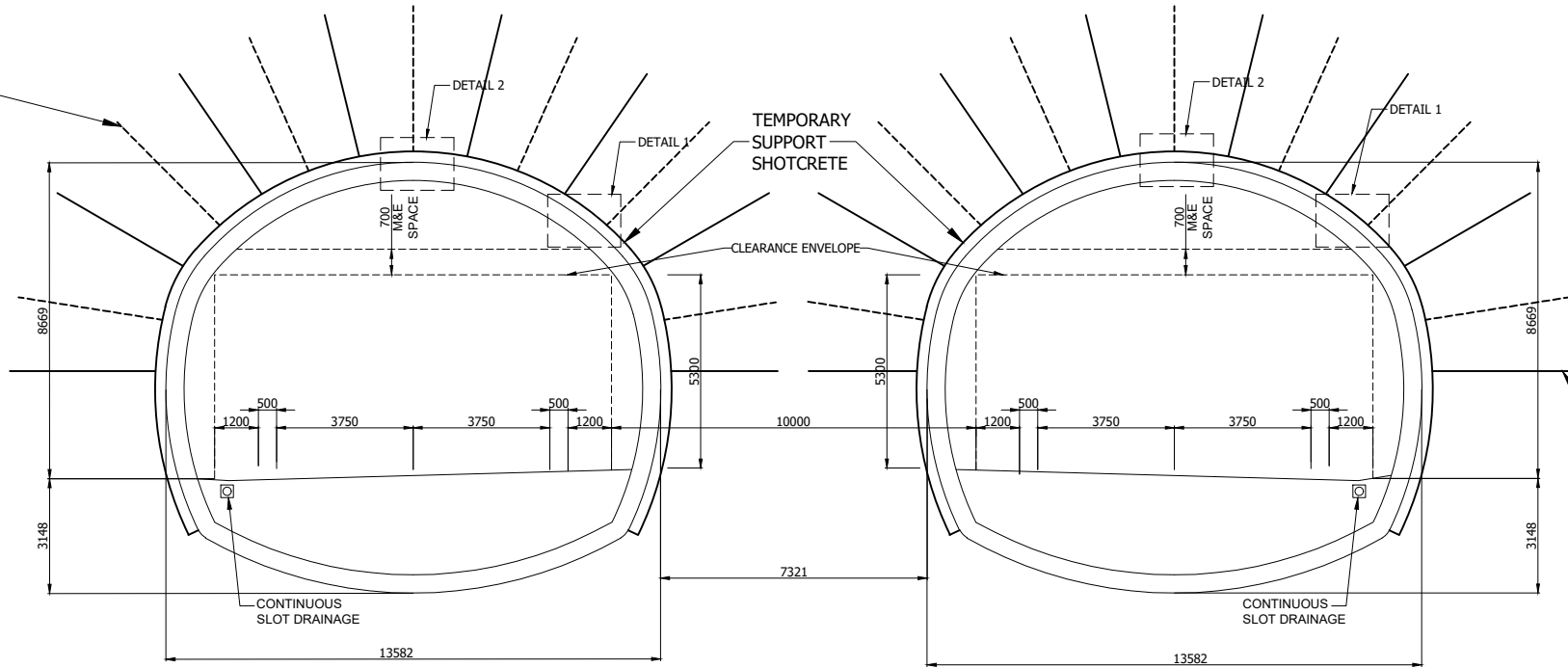
Do not scale

\\global\europa\Dublin\Jobs\233000\233985-004. Internal\4-02 Drawings\4-02-8 Highways\8.3 Design Rep\1700 STR\GCOB-D-S11-01-001.dwg

© Arup

NOTES:
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED.
2. DRAWING TO BE READ IN CONJUNCTION WITH ALIGNMENT DRAWINGS AND TUNNEL PLAN AND PROFILE DRAWINGS.

SYSTEMATIC DOWELS
(SUCCESSIVE DOWELS
TO BE INSTALLED IN
STAGGERED ARRAYS)

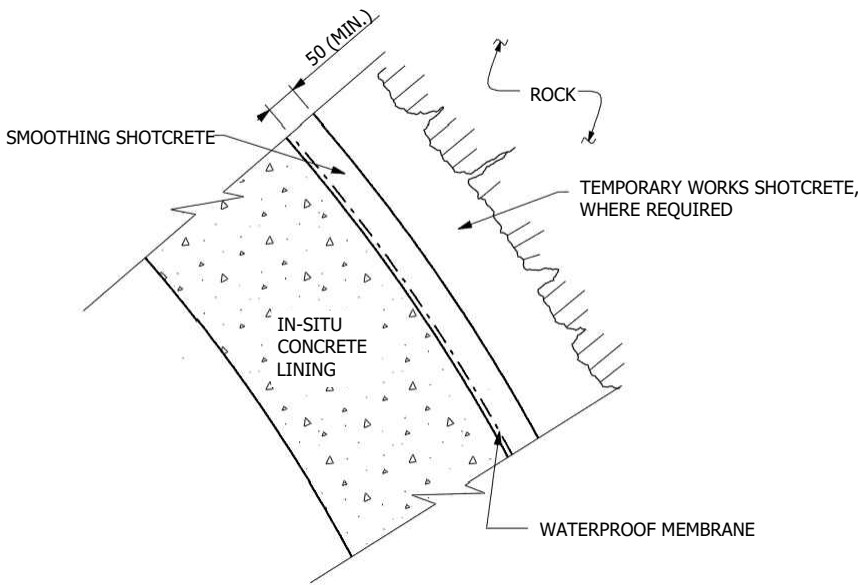


SEE DRG. GCOB-D-S11001-013 FOR TYPICAL
DETAILS OF TEMPORARY SUPPORT MEASURES

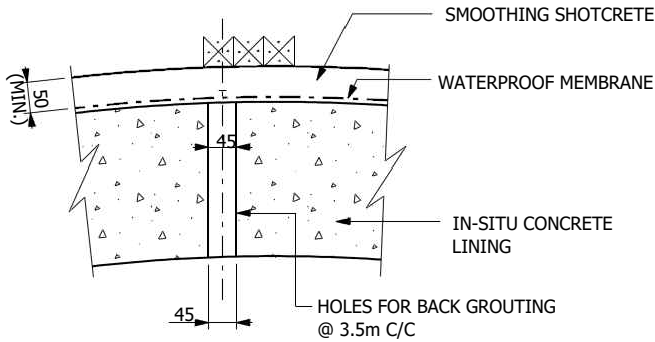
EASTBOUND BORE

WESTBOUND BORE

TYPICAL CROSS SECTION FOR LACKAGH TUNNEL



DETAIL 2



DETAIL 1

Clients

Comhairle Chontae na Gaillimhe
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Galway City Transport Project

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Job Title

N6 Galway City Ring Road

Scale

N.T.S.

Date:

July 2016

I3	14/09/2017	KJ	PS	JC
I2	08/06/2017	KJ	PS	JC
I1	27/02/2017	DC	PS	JC
Issue	Date	By	Chkd	Appd

Drawing Title

Lackagh Tunnel and Western Approach
Mined Tunnel General Arrangement

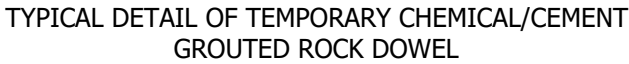
Drawing Status

For Information

Job No	Drawing No	Issue
233985	GCOB-D-S11-01-011	I3

NOTES:

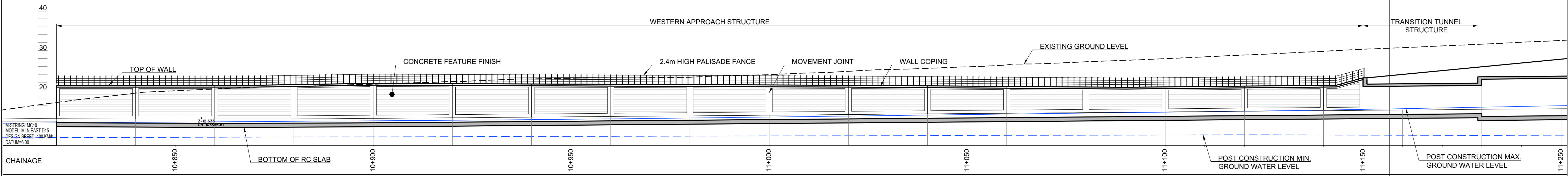
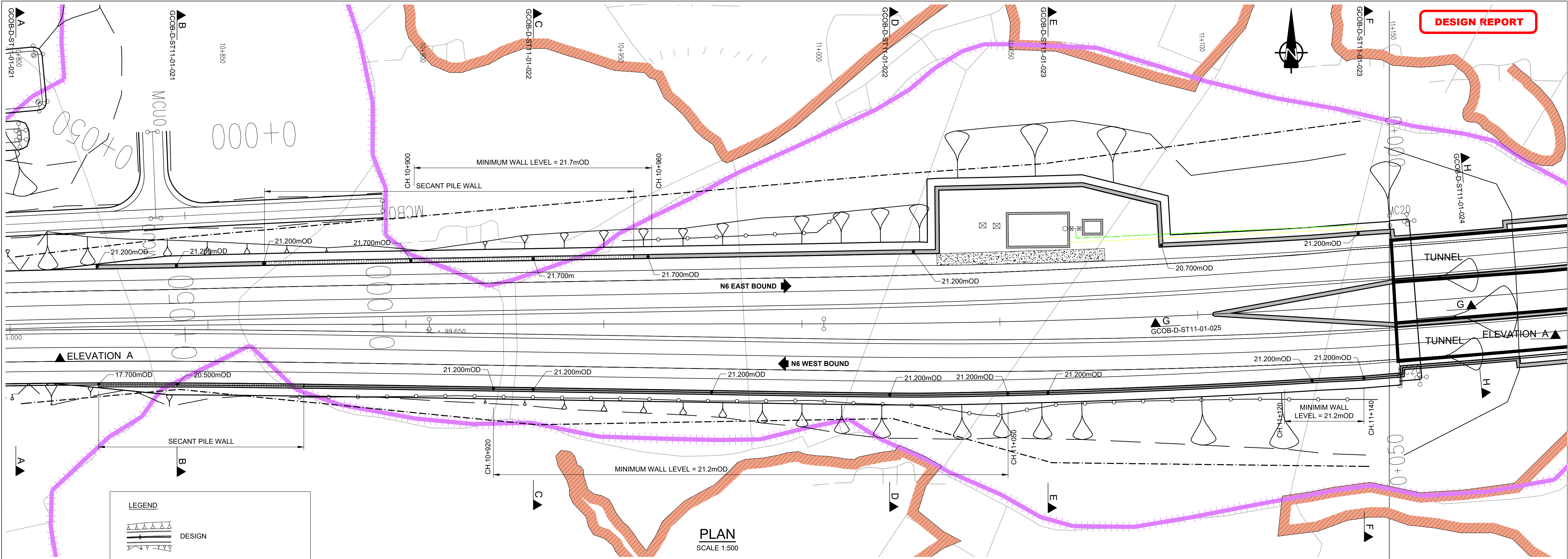
- [2] GRIMSTAD E AND BARTON N.R. (1993).
UPDATING OF THE Q-SYSTEM FOR NMT. IN
INTERNATIONAL SYMPOSIUM ON SPRAYED
CONCRETE, FARERNES, NORWAY,
NORWEGIAN CONCRETE ASSOCIATION, PP.
46-66.



N.T.S.

TABLE A (REFER TO NOTE 5)

SUPPORT CATEGORY	Q (AS MAPPED)	MIN. SUPPORT REQUIREMENT BASED ON Q-VALUE	
		ARCH	
1&2	$Q \geq 3.9$	FEATURE DOWELS: SYSTEMATIC DOWELS: SHOTCRETE:	AS NECESSARY NONE 50mm THICK ON LOCAL FRACTURE ZONES
3	$1.9 \leq Q < 3.9$	FEATURE DOWELS: SYSTEMATIC DOWELS: SHOTCRETE:	AS NECESSARY 4.3m LONG ON A 2.3m GRID 50mm THICK
4	$0.6 \leq Q < 1.9$	FEATURE DOWELS: SYSTEMATIC DOWELS: SHOTCRETE:	AS NECESSARY 4.3m LONG ON A 2m GRID 70mm THICK
5	$0.2 \leq Q < 0.6$	FEATURE DOWELS: SYSTEMATIC DOWELS: SHOTCRETE:	AS NECESSARY 4.3m LONG ON A 1.7m GRID 100mm THICK
6-9	< 0.2	PRE-SUPPORT AND PASSIVE LINING SYSTEM ON CONSULTATION WITH THE DESIGNER	



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Job Title
N6 Galway City Ring Road

Scale
1:500 @ A1 / 1:1000 @ A3

Date:
Februaire 2017

I2	14/09/2017	DC	PM	PM
I1	27/02/2017	DC	PM	PM
Issue	Date	By	Chkd	Appd

Drawing Title
Lackagh Tunnel & Western Approach
Western Approach Plan & Elevation

Drawing Status

For Information

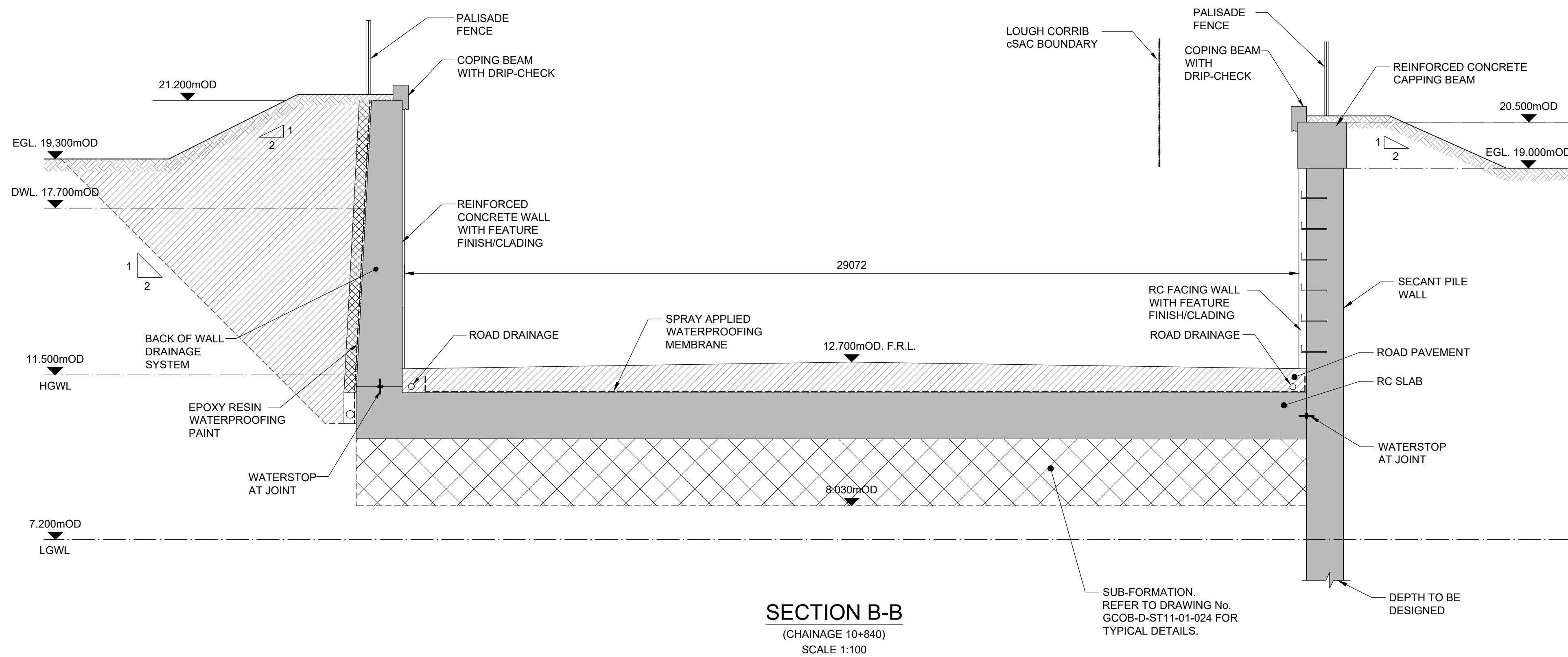
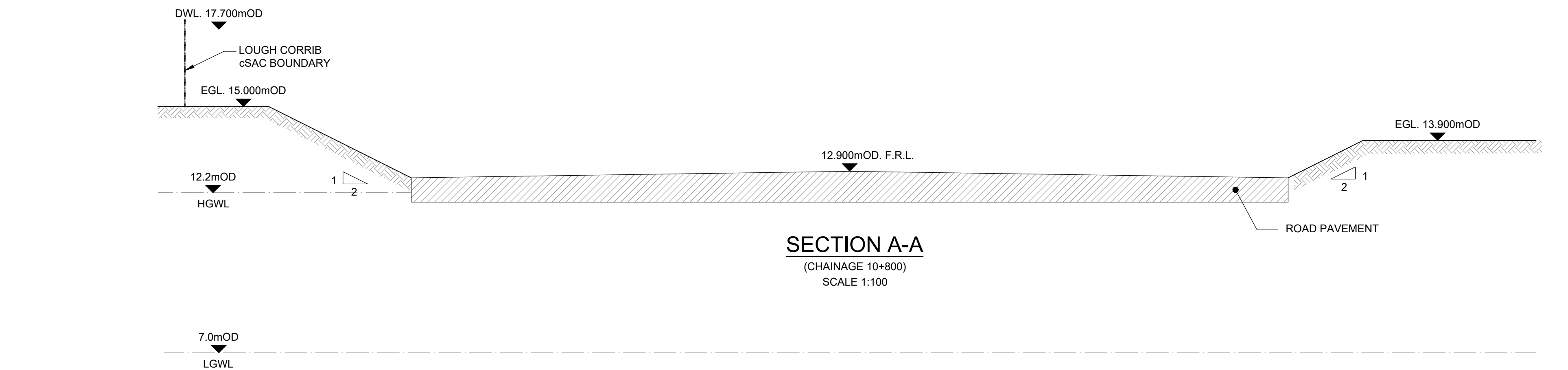
Job No	Drawing No	Issue
233985-00	GCOB-1700-D-S11-01-020	I2

Legend:

- | | | |
|------|---|-------------------------|
| EGL | = | Existing Ground Level |
| DWL | = | Design Water Level |
| HGWL | = | High Ground Water Level |
| LGWL | = | Low Ground Water Level |

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METERS ABOVE ORDNANCE DATUM.
3. FOR TYPICAL DETAILS SEE DRAWING GCOB-1700-D-S11-01-026.

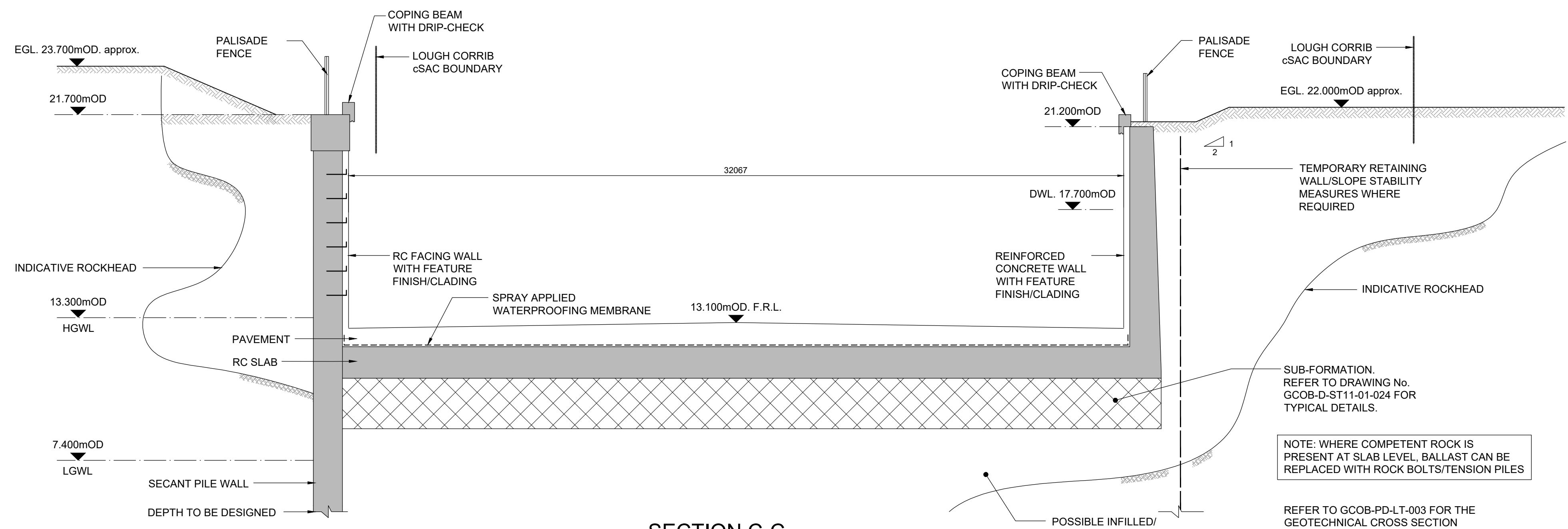


Legend:

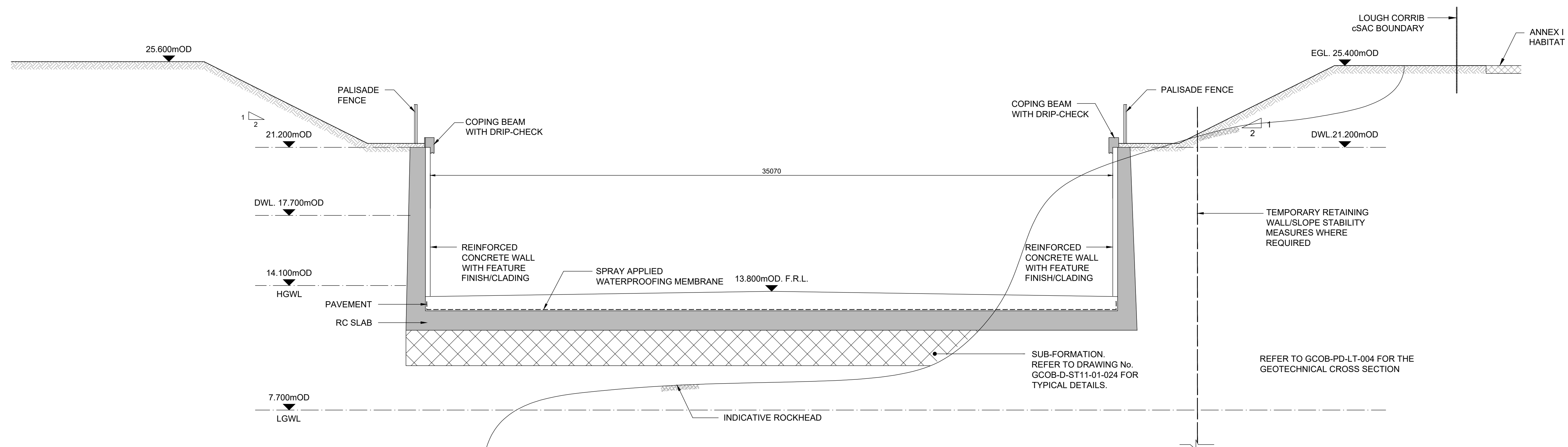
- | | | |
|------|---|-------------------------|
| EGL | = | Existing Ground Level |
| DWL | = | Design Water Level |
| HGWL | = | High Ground Water Level |
| LGWL | = | Low Ground Water Level |

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METERS ABOVE ORDANCE DATUM.
3. FOR TYPICAL DETAILS SEE DRAWING GCOB-1700-D-511-01-026.

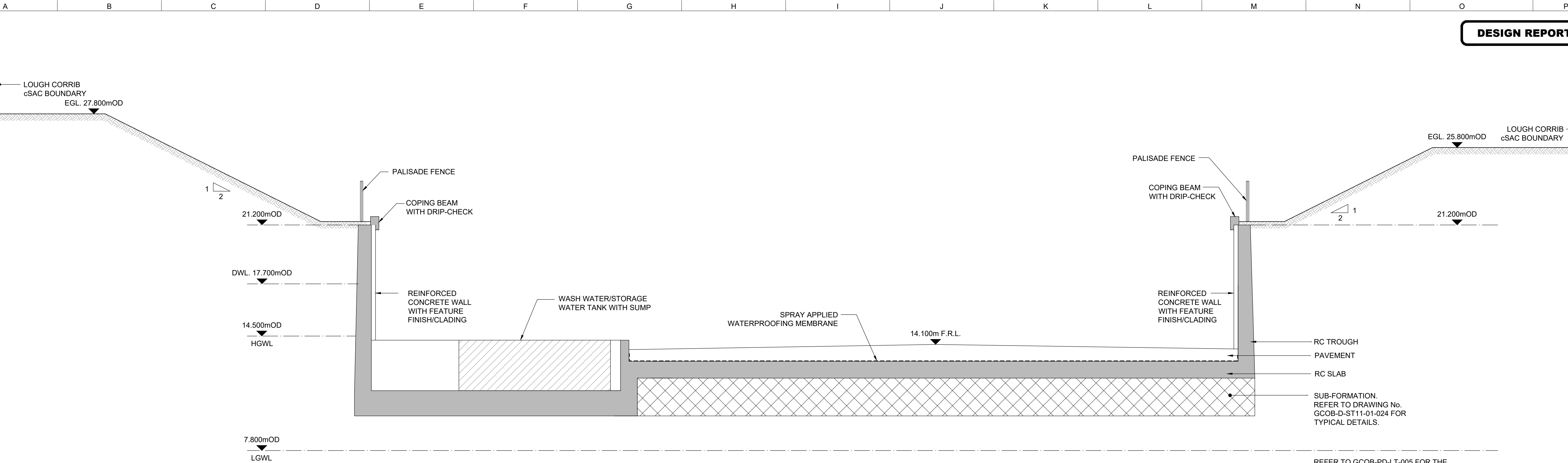


SECTION C-C
(CHAINAGE 10+930)
SCALE 1:125

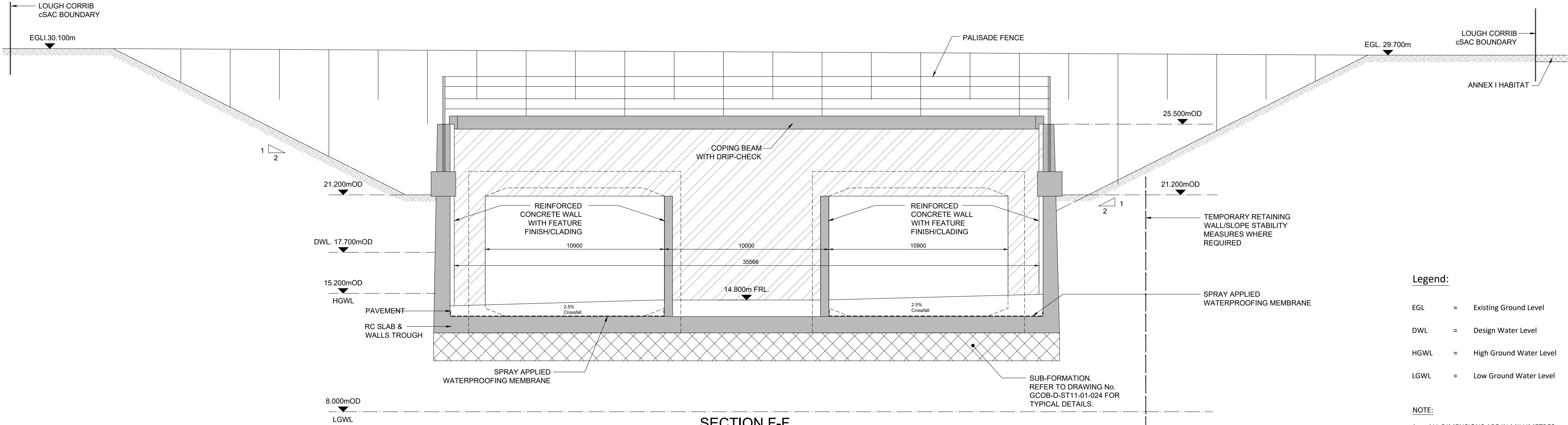


SECTION D-D
(CHAINAGE 11+020)
SCALE 1:125

A1
1
2
3
4
5
6
7
8
9
10



SECTION E-E
(CHAINAGE 11+060)
SCALE 1:125



SECTION F-F
(CHAINAGE 11+140)
SCALE 1:125

Legend:

- EGL = Existing Ground Level
DWL = Design Water Level
HGWL = High Ground Water Level
LGWL = Low Ground Water Level

NOTE:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METERS ABOVE ORDNANCE DATUM.
- FOR TYPICAL DETAILS SEE DRAWING GCOB-1700-D-S11-01-026.



Job Title
N6 Galway City Ring Road

Scale
1:125 @ A1 / 1:250 @ A3
Date
February 2017

I3	17/10/2017	DC	PM	PM
I2	14/09/2017	DC	PM	PM
I1	27/02/2017	DC	PM	PM
Issue	Date	By	Chkd	Appd

Drawing Title
Lackagh Tunnel & Western Approach
Western Approach
Sections - Sheet 3 of 4
Drawing Status
For Information
Job No
233985-00
Drawing No
GCOB-1700-D-S11-01-023
Issue
I3

1
2
3
4
5
6
7
8
9
10

A B C D E F G H I J K L M N O P

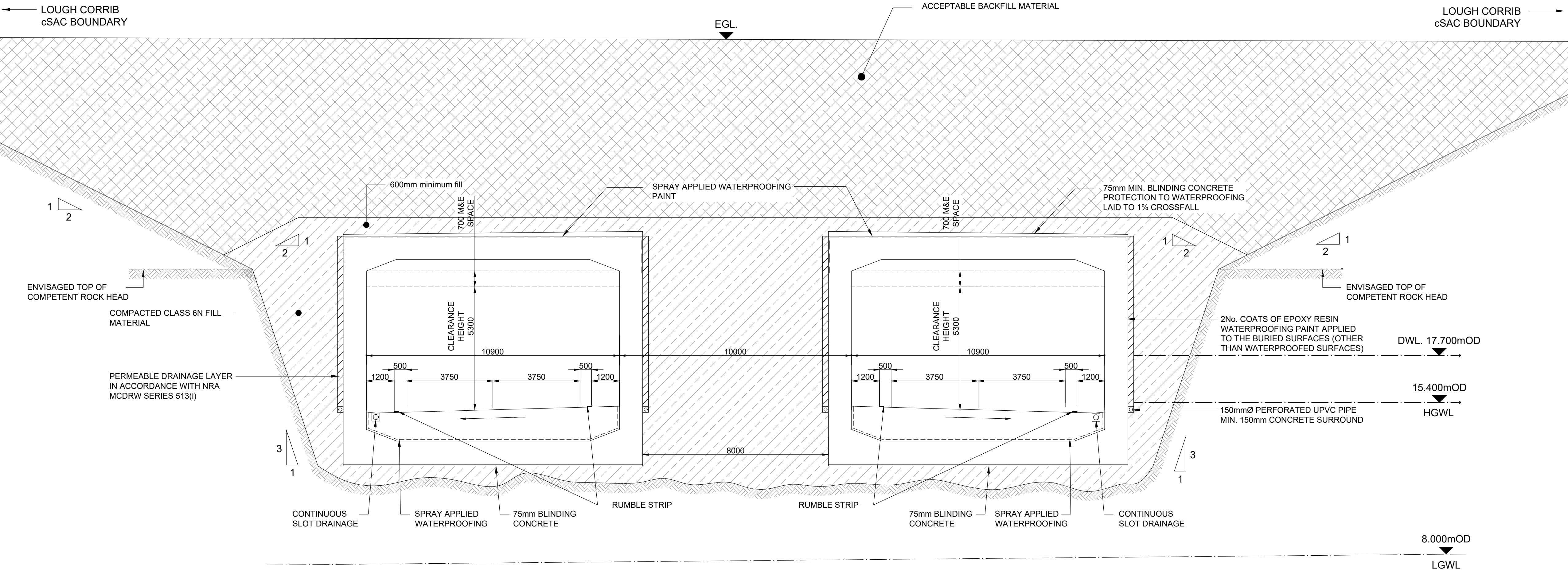
DESIGN REPORT

Legend:

- EGL = Existing Ground Level
DWL = Design Water Level
HGWL = High Ground Water Level
LGWL = Low Ground Water Level

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METERS ABOVE ORDNANCE DATUM.
3. FOR TYPICAL DETAILS SEE DRAWING GCOB-1700-D-S11-01-026.



SECTION H-H
(CHAINAGE 11+180)
SCALE 1:100

Clients

 **Comhairle Chontae na Gaillimhe**
Galway County Council

 **N6**
Galway City Transport Project

 **An Roinn Iompair**
Turasoireachta agus Spóirt

 **TIIV**
Bonnasgar Iompair Éireann
Transport Infrastructure Ireland

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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale 1:100 @ A1 / 1:200 @ A3

Date: January 2017

I2	14/09/2017	DC	PM	PM
I1	27/02/2017	DC	PM	PM
Issue	Date	By	Chkd	Appd

Drawing Title

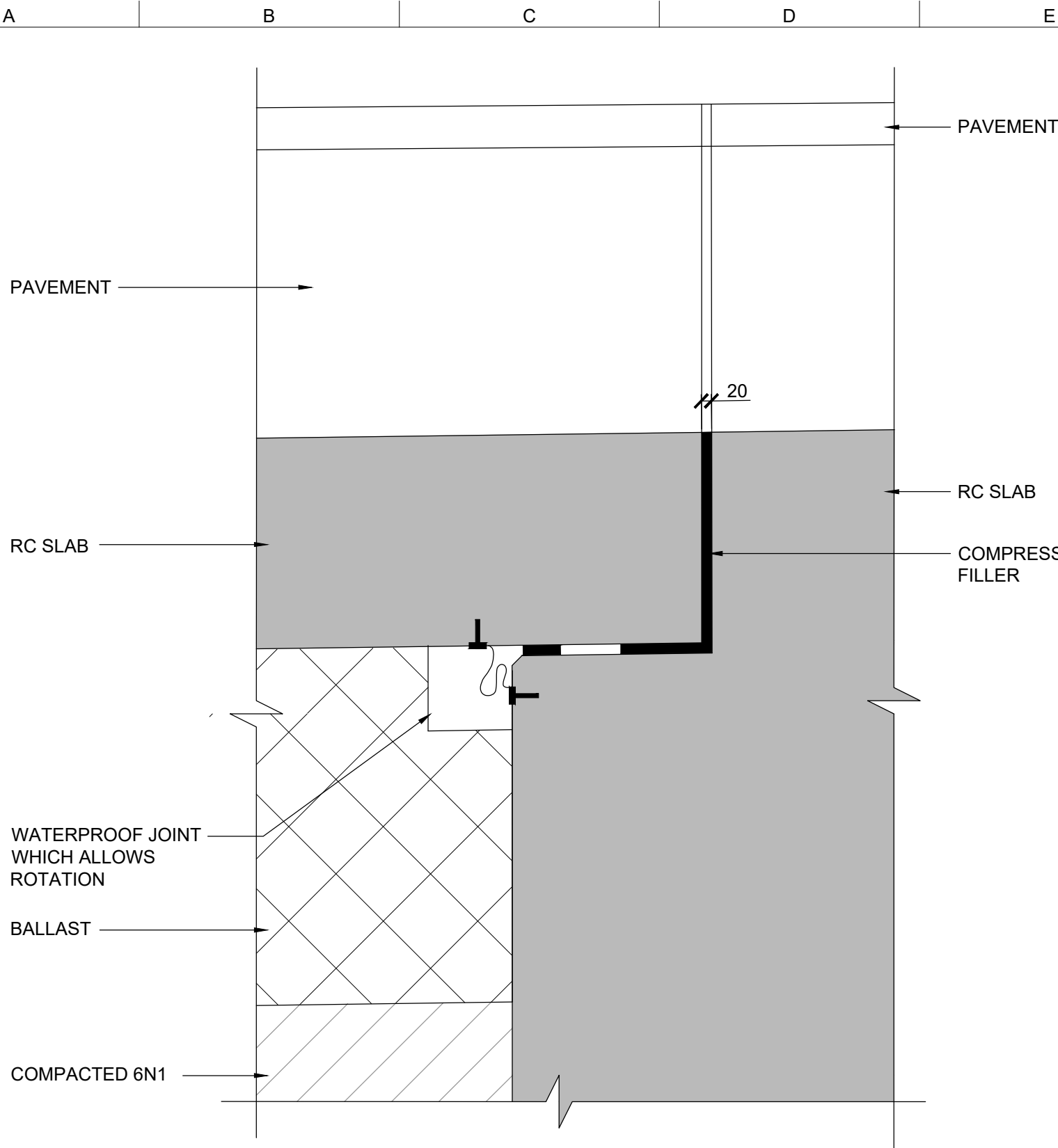
Lackagh Tunnel & Western Approach
Western Approach
Sections - Sheet 4 of 4

Drawing Status

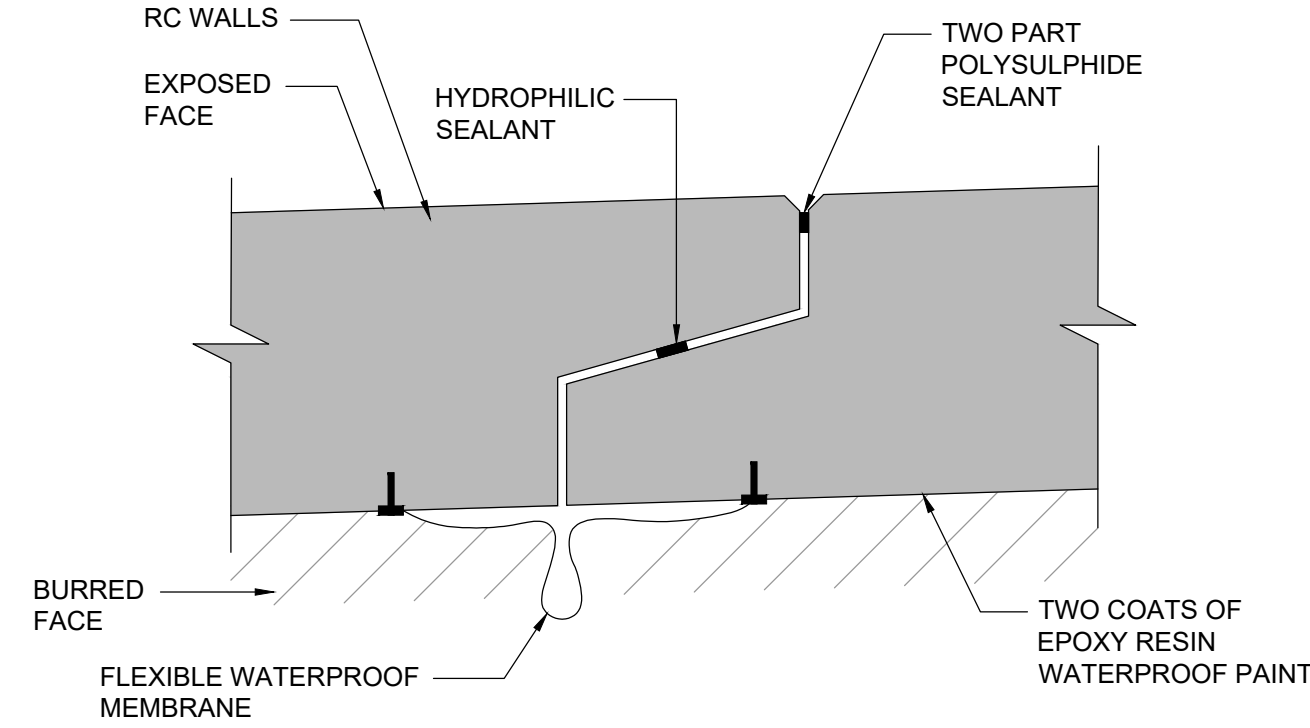
For Information

Job No	Drawing No	Issue
233985-00	GCOB-1700-D-S11-01-024	I2

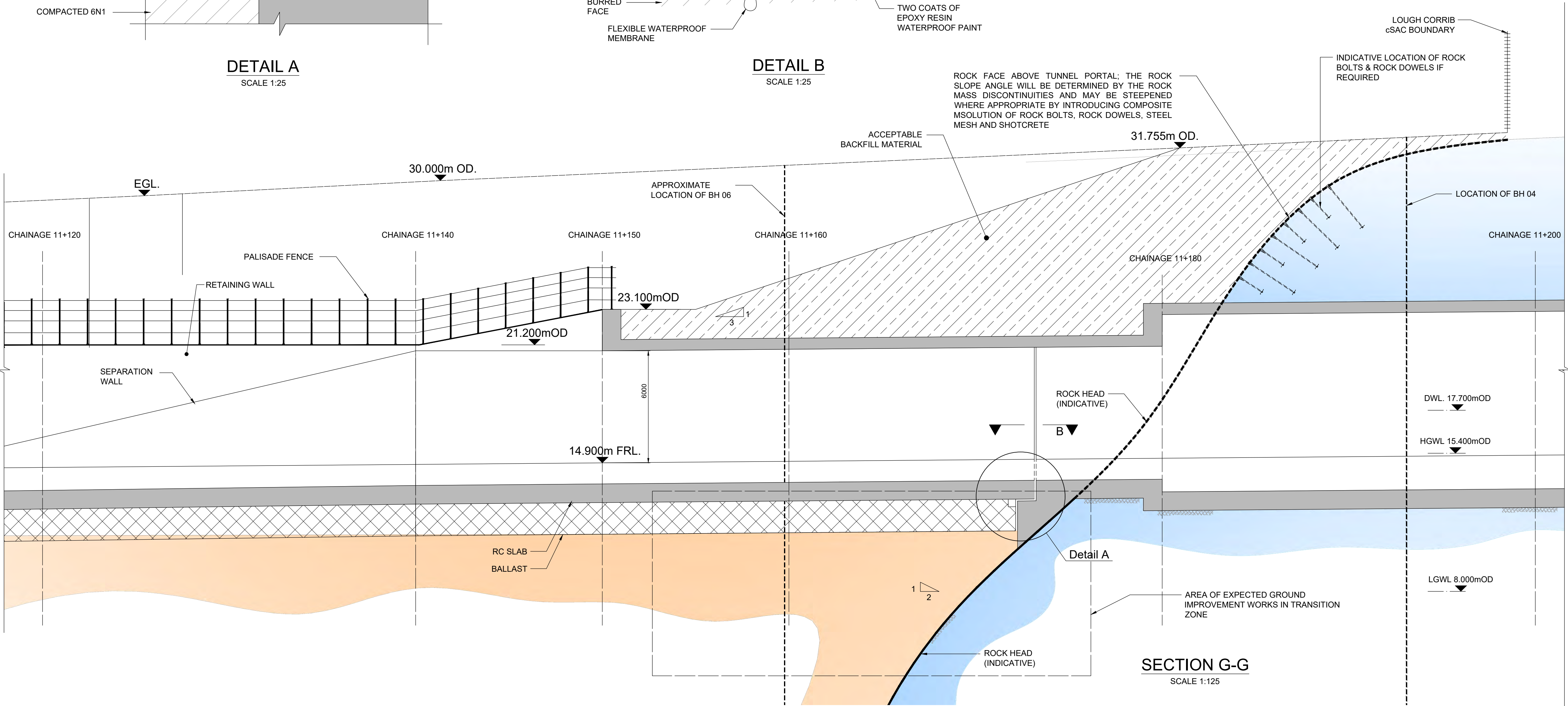
A1
1
2
3
4
5
6
7
8
9
10



DETAIL A
SCALE 1:25



DETAIL B
SCALE 1:25



SECTION G-G
SCALE 1:125

DESIGN REPORT

Legend:

- DWL = Design Water Level
HGWL = High Ground Water Level
LGWL = Low Ground Water Level
----- Existing Ground Level
—— Top of RC Wall
—— Indicative Rock Head Level
Limestone Bedrock
Overburden
Acceptable Backfill Material

Clients

Comhairle Chontae na Gaillimhe
Galway County Council

Galway City Transport Project

An Roinn Iompair
Turasóireachta agus Spóirt

Department of Transport, Tourism and Sport

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Job Title

N6 Galway City Ring Road

Scale

1:125 @ A1 / 1:250 @ A3

Date

February 2017

I3	17/10/2017	DC	PM	PM
I2	14/09/2017	DC	PM	PM
I1	27/02/2017	DC	PM	PM
Issue	Date	By	Chkd	Appd

Drawing Title

Lackagh Tunnel & Western Approach
Western Approach
Transition to Lackagh Tunnel

Drawing Status

For Information

Job No

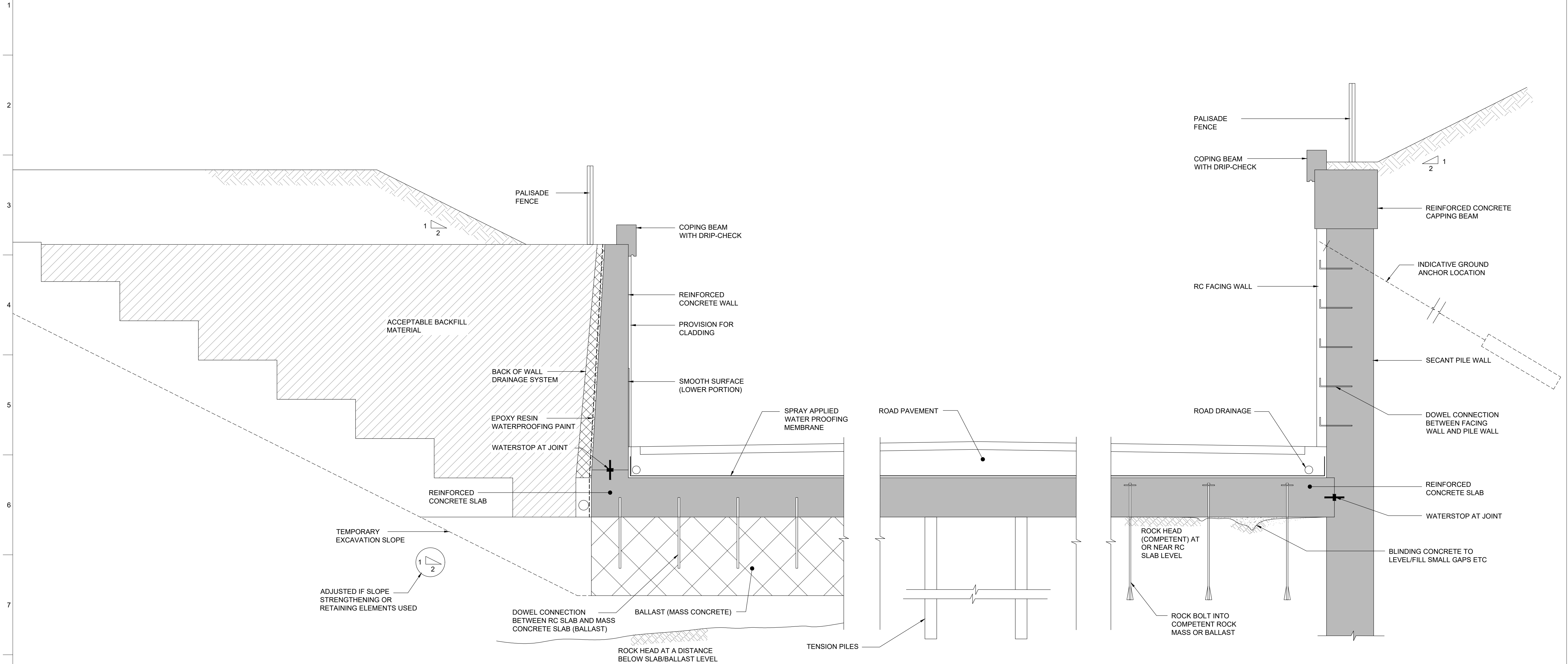
233985-00

Drawing No

GC0B-1700-D-S11-01-025

Issue

I3



TYPICAL DETAIL
SCALE 1:50

Clients



Comhairle Chontae na Gaillimhe
Galway County Council



Galway City
Transport Project



An Roinn Iompair
Turasóireachta agus Spóirt
Department Transport, Tourism and Sport



TII
Transport Infrastructure Ireland

Consultant

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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

1:125 @ A1 / 1:250 @ A3

Date:

January 2017

Drawing Title

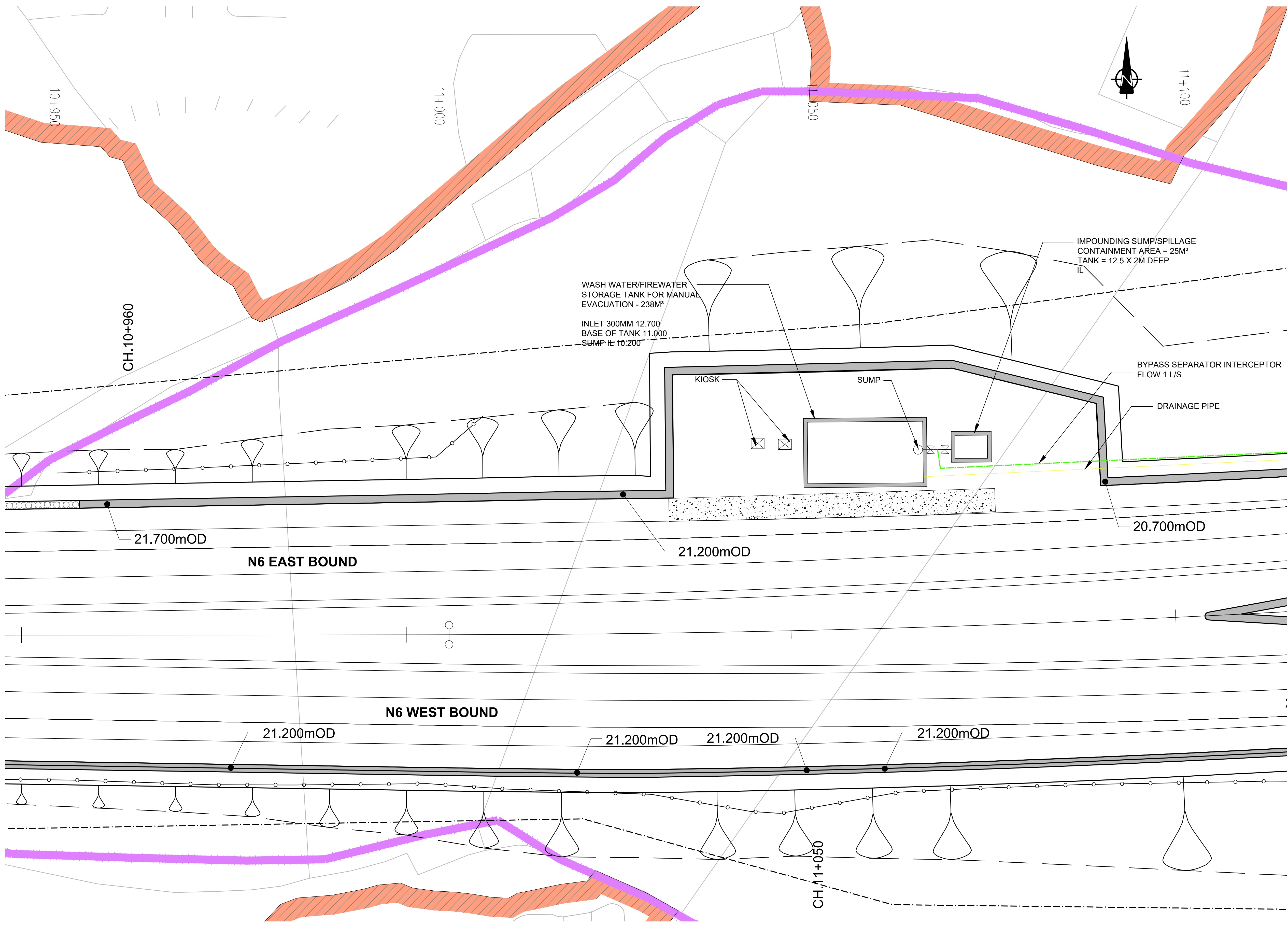
Lackagh Tunnel & Western Approach
Typical Details

Drawing Status

For Information

I2	14/09/2017	DC	PM	PM
I1	27/02/2017	DC	PM	PM
Issue	Date	By	Chkd	Appd

Job No	Drawing No	Issue
233985-00	GC0B-1700-D-S11-01-026	I2



LEGEND

- DESIGN
- ANNEX I HABITAT
- LOUGH CORRIB cSAC BOUNDARY
- TEMPORARY RETAINING ELEMENT OR SLOPE STABILITY MEASURES
- 1:2 SLOPE FROM BOTTOM OF APPROACH STRUCTURE TO GROUND LEVEL
- SECANT PILE WALL
- RC TROUGH WALL

NOTE:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METERS ABOVE ORDNANCE DATUM.
- FOR TYPICAL DETAILS SEE DRAWING GCOB-1700-D-S11-01-026.

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Clients

Comhairle Chontae na Gaillimhe
Galway County Council

An Roinn Iompair
Turasoireacht agus Spóirt
Department Transport, Tourism and Sport

TII
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Job Title

N6 Galway City Ring Road

Scale

1:250 @ A1 / 1:500 @ A3

Date:

February 2017

I2	14/09/2017	DC	PM	PM
I1	27/02/2017	DC	PM	PM
Issue	Date	By	Chkd	Appd

Drawing Title

Lackagh Tunnel & Western Approach
Western Approach
Proposed Sump Layout

Drawing Status

For Information

Job No

233985-00

Drawing No

GCOB-1700-D-S11-01-027

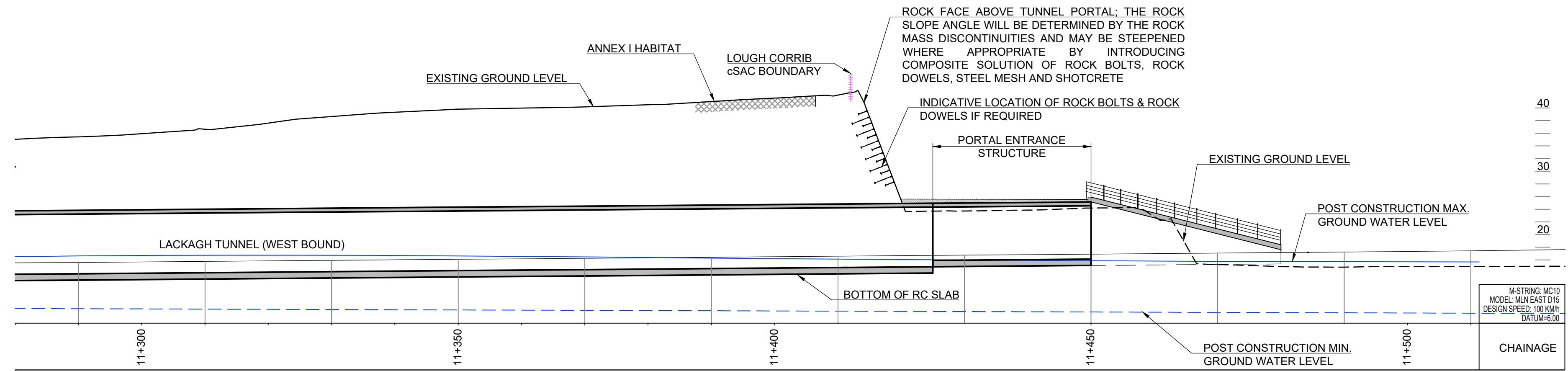
Issue

I2

- LEGEND
- DESIGN
 - ANNEX I HABITAT
 - LOUGH CORRIB cSAC BOUNDARY
 - TEMPORARY RETAINING ELEMENT OR SLOPE STABILITY MEASURES
 - 1:2 SLOPE FROM BOTTOM OF APPROACH STRUCTURE TO GROUND LEVEL
 - SECANT PILE WALL
 - RC TROUGH WALL



EASTERN APPROACH & TUNNEL PLAN
SCALE 1:500



EASTERN APPROACH & TUNNEL ELEVATION A-A
SCALE 1:500

San áireamh tá sonraíocht Shuirbhíreacht Ordnáis Éireann arna atáirgeadh faoi Cheadúnas OSI Uimh. 2010/17CCMA/Comhairle Contae na Gaillimhe. Sártaonn atáirgeadh neamhúdaraithe cóipeacht Shuirbhíreacht Ordnáis Éireann agus Rialtas na hÉireann. © Suirbhíreacht Ordnáis Éireann, 2010.

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Clients



Comhairle Chontae na Gaillimhe
Galway County Council



An Roinn Iompair
Turasóireacht agus Spóirt
Department of Transport, Tourism and Sport



Consultant

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Corporate House
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Tel +353 (0)91 460675
www.N6GalwayCity.ie
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Job Title

N6 Galway City Ring Road

Scale

1:500 @ A1 / 1:1000 @ A3

Date:

September 2017

Issue	Date	By	Chkd	Appd
I1	14/09/2017	tp	PM	PM

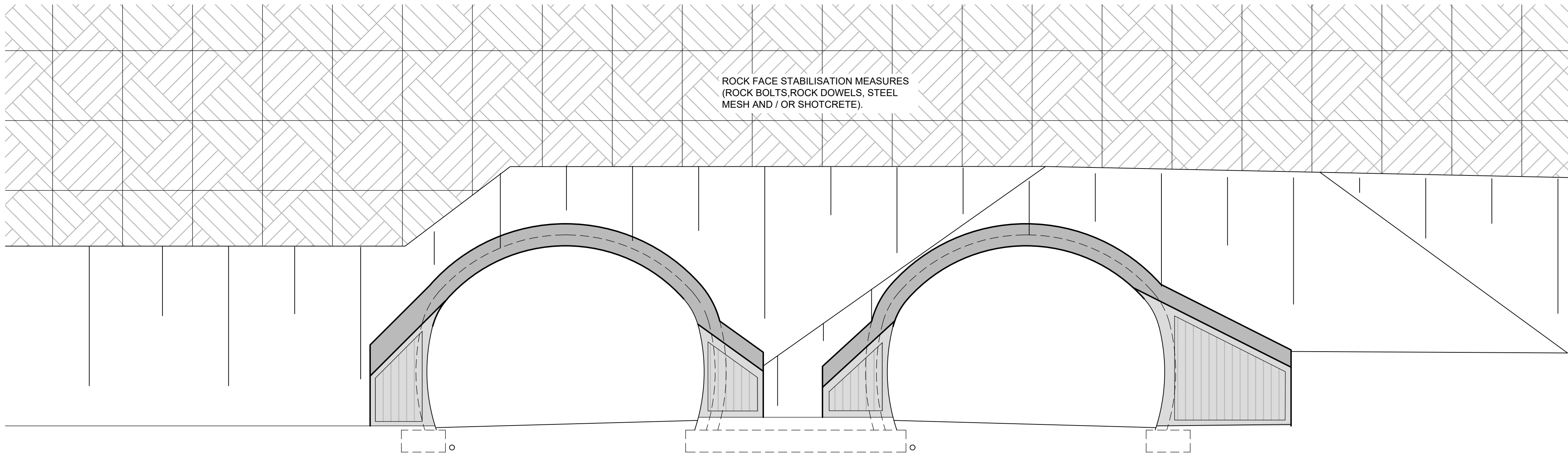
Drawing Title

Lackagh Tunnel & Western Approach
Eastern Approach Plan & Elevation

Drawing Status

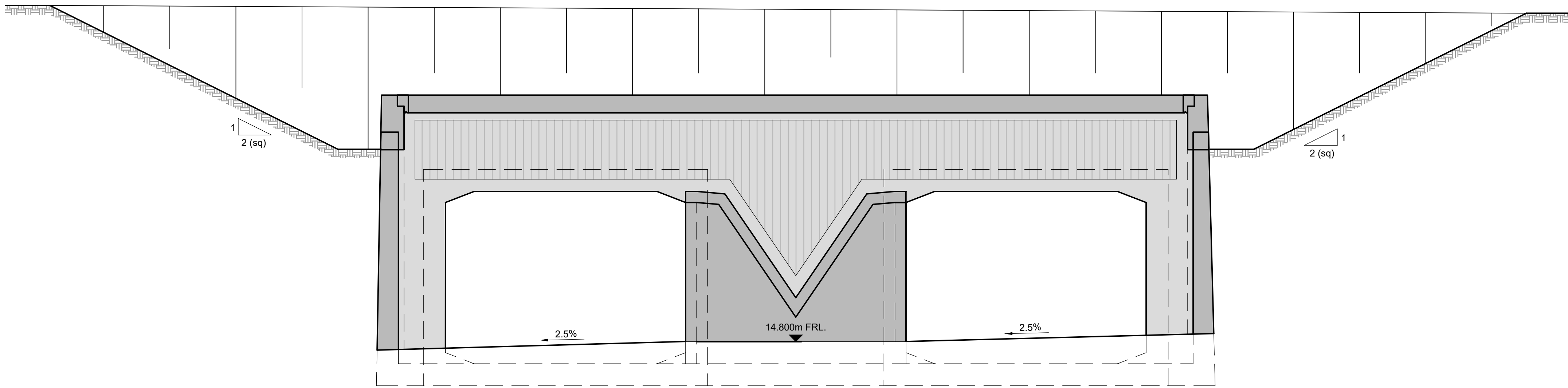
For Information

Job No	Drawing No	Issue
233985-00	GCOB-1700-D-S11-01-030	I1



**EASTERN PORTAL ELEVATION
IN LACKAGH QUARRY**
(CHAINAGE 11+450)
SCALE 1:125

NOTE
The aesthetic treatment of the portals will require further input from an aesthetic advisor and will be developed as the design progresses.



**WEST PORTAL ELEVATION AT
THE WESTERN APPROACH**
(CHAINAGE 11+100)
SCALE 1:125

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Job Title
N6 Galway City Ring Road

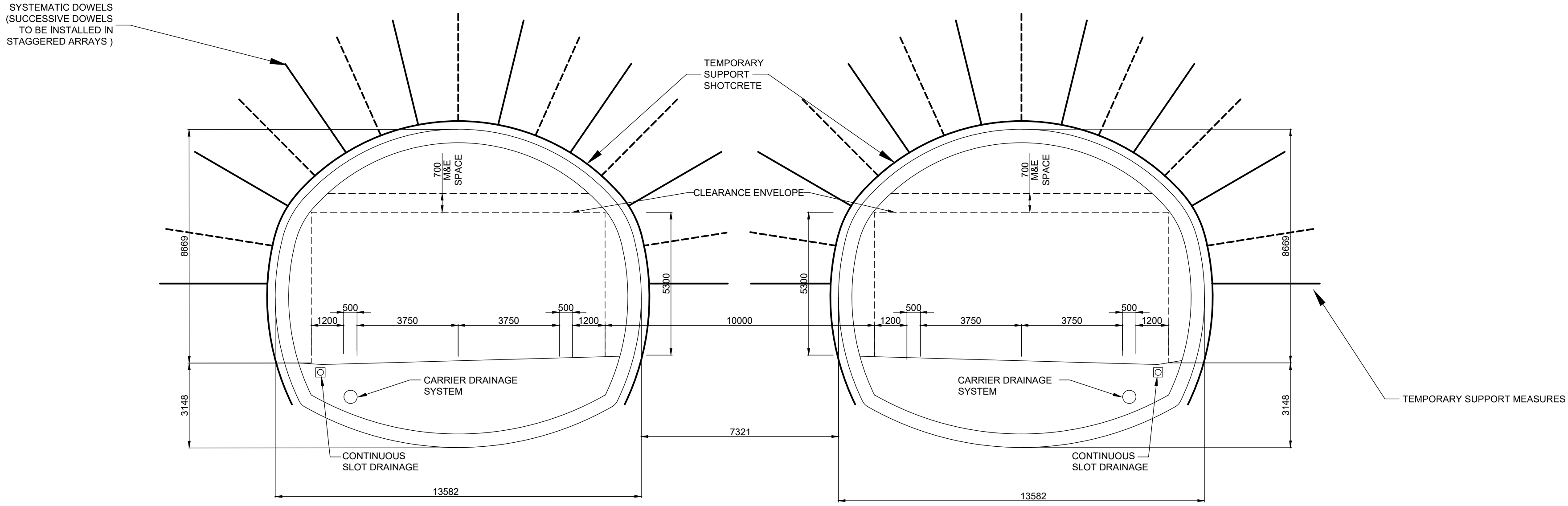
Scale
1:500 @ A1 / 1:1000 @ A3
Date: September 2017

Issue	Date	By	Chkd	Appd
11	14/09/2017	TP	PM	PM

Drawing Title
Lackagh Tunnel & Western Approach
Eastern Approach Plan & Elevation

Job No	Drawing No	Issue
233985-00	GCOB-1700-D-S11-01-040	11

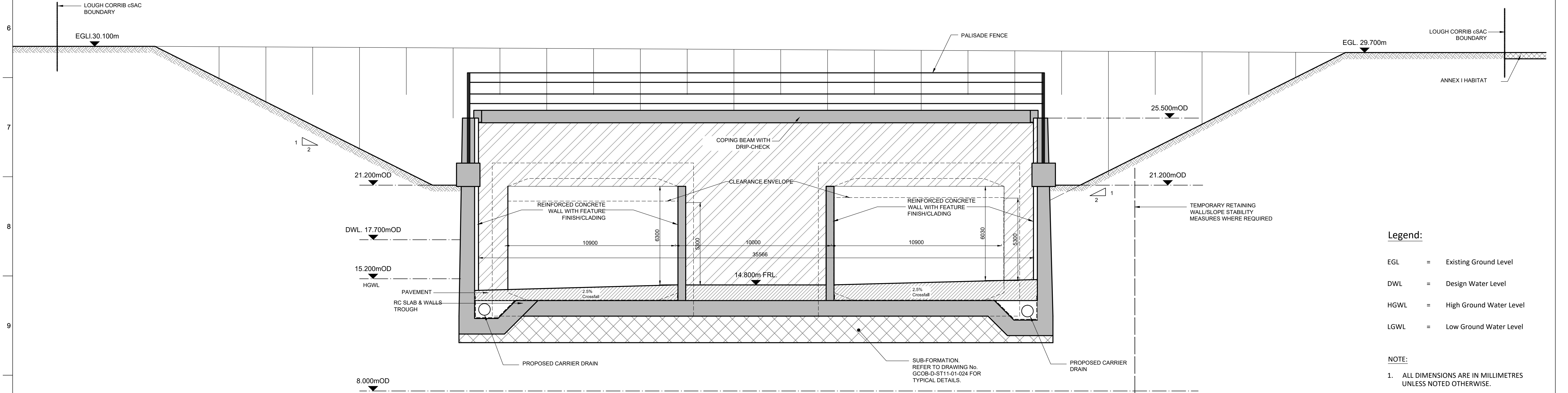
FOR INFORMATION



EASTBOUND BORE WESTBOUND BORE

TYPICAL CROSS - SECTION FOR LACKAGH TUNNEL

SCALE 1:125 @ A1



TUNNEL PORTAL CROSS - SECTION

Western Portal (CHAINAGE 11+140)

SCALE 1:125 @ A1

Legend:

- EGL = Existing Ground Level
DWL = Design Water Level
HGWL = High Ground Water Level
LGWL = Low Ground Water Level

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METERS ABOVE ORDNANCE DATUM.



Job Title
N6 Galway City Ring Road

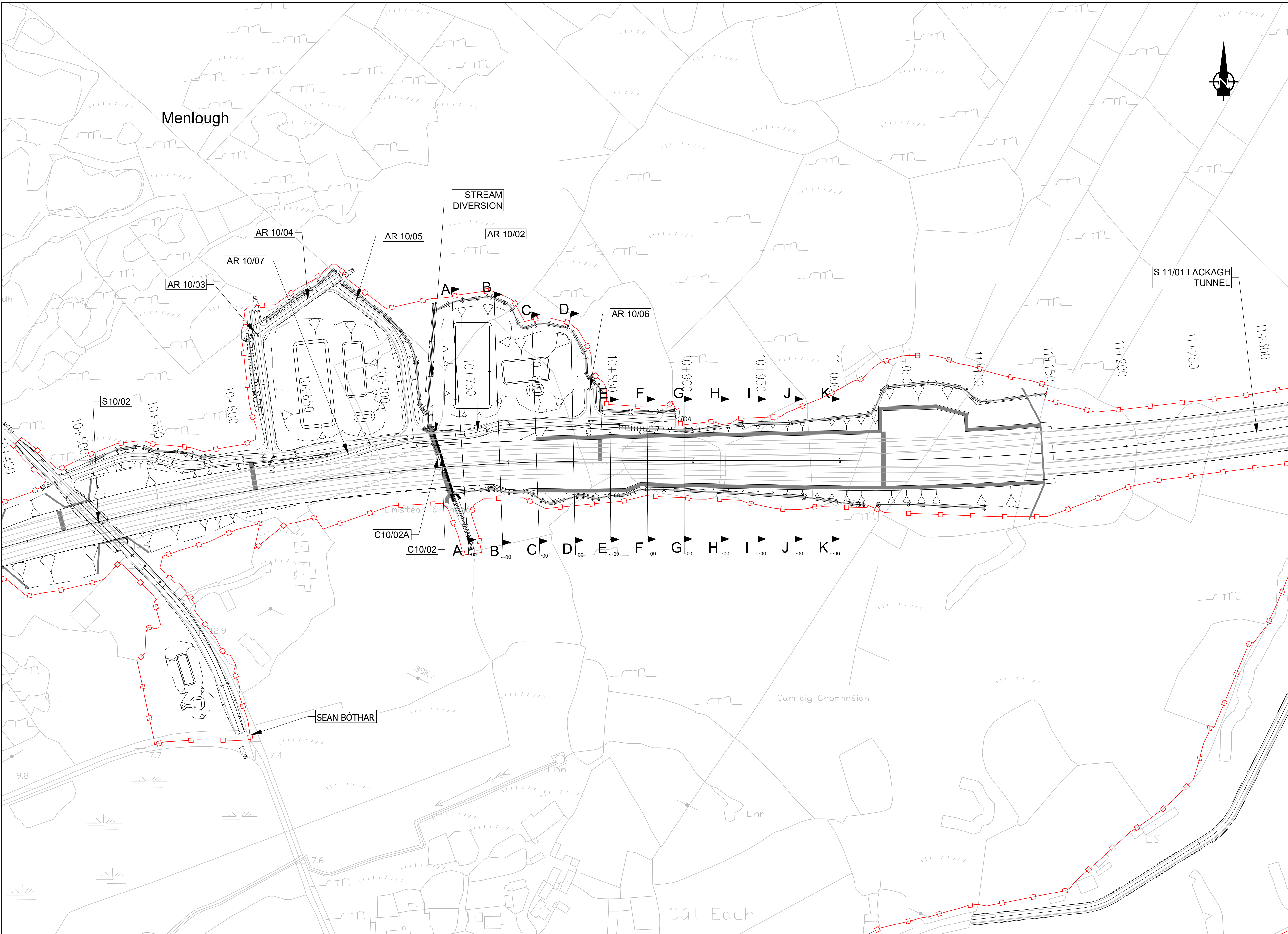
Scale
1:125 @ A1 / 1:250 @ A3
Date: August 2019

I1	30/08/2019	KJ	AP	PM
Issue	Date	By	Chkd	Appd

Drawing Title
Lackagh Tunnel Clearance and General Arrangement Dimentions for Portals and Typical Cross-Section

Drawing Status
For Information

Job No 233985	Drawing No Figure 1.4.01	Issue 11
------------------	-----------------------------	-------------



FOR INFORMATION

Legend:

Proposed Development Boundary

Proposed Road Geometry

Earthworks - Fill

Earthworks - Cut

Structure (S)

Proposed Retaining wall (R)

Proposed Mammal Underpass (C)

Proposed Culvert (C)

Proposed Attenuation Pond / Infiltration Basin / Wetlands

AR

AR - Access Road

8A

A

Cross Section Path

Clients

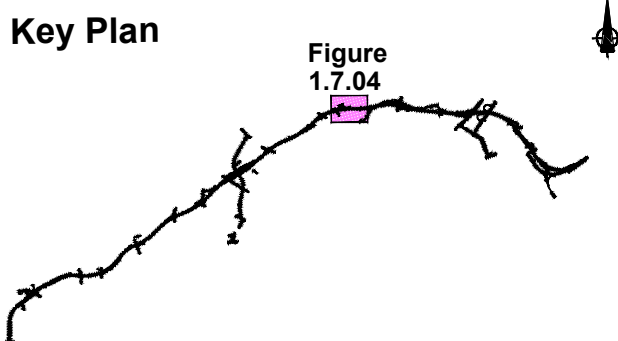
An Roinn Iompair
Department of Transport

Tionscadal Éireann
Project Ireland
2040

Comhairle Chontae na Gaillimhe
Galway County Council

N6
Galway City
Transport Project

TII
Bonnasgar Iompair Éireann
Transport Infrastructure Ireland



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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

1:2500 @ A3

Date:

March 2025

I2	31/03/2025	KJ	MH	EMC
I1	30/08/2019	KJ	MH	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Retaining Wall West of Lackagh Tunnel
Plan Layout
Sheet 1 of 4

Drawing Status

For Information

Job No

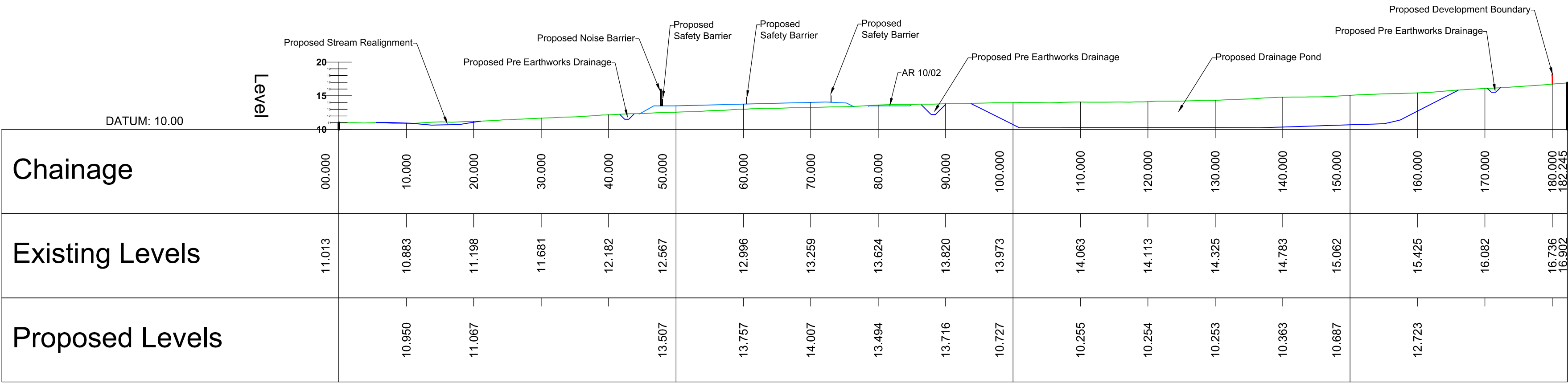
233985

Drawing No

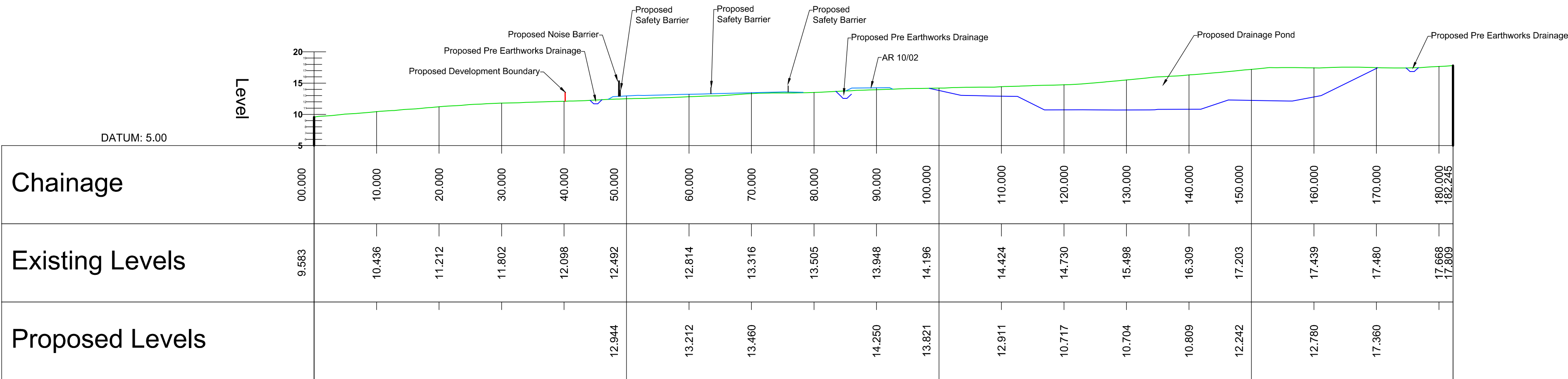
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Issue

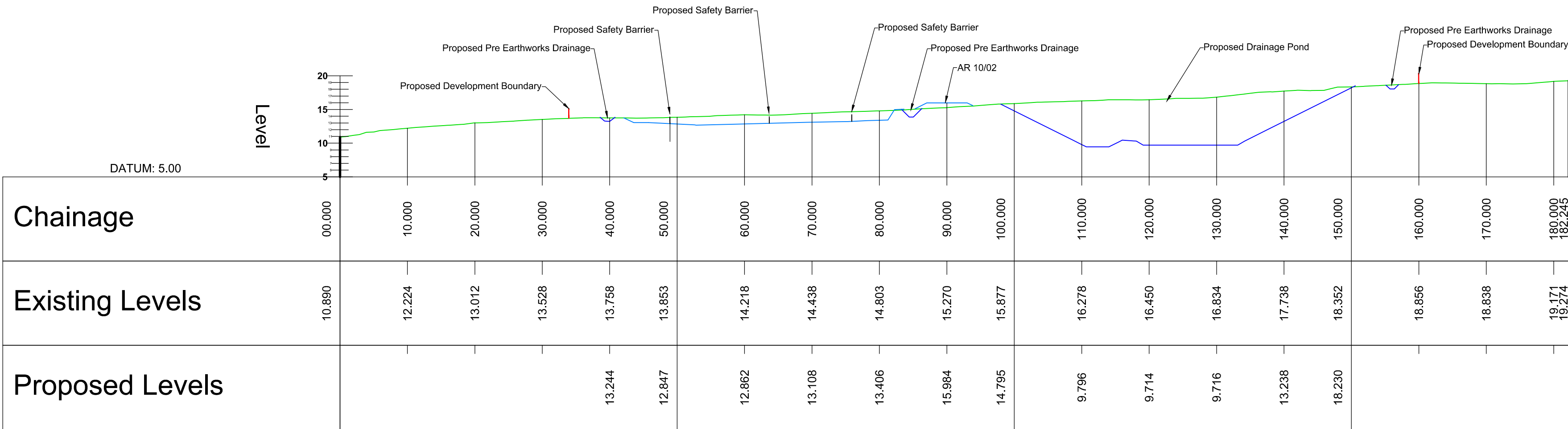
I2



CROSS SECTION A-A : CH 10+740



CROSS SECTION B-B : CH 10+775



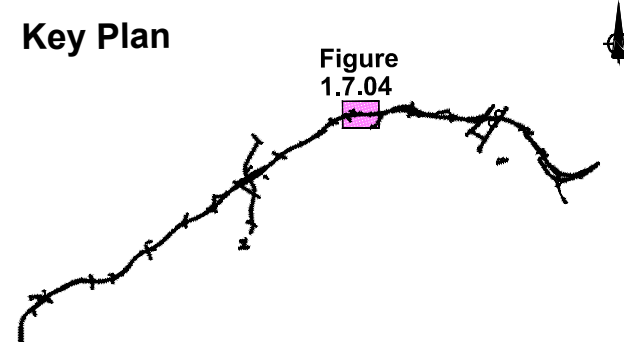
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Job Title
N6 Galway City Ring Road

Scale
1:1000 @ A3
Date:
August 2019

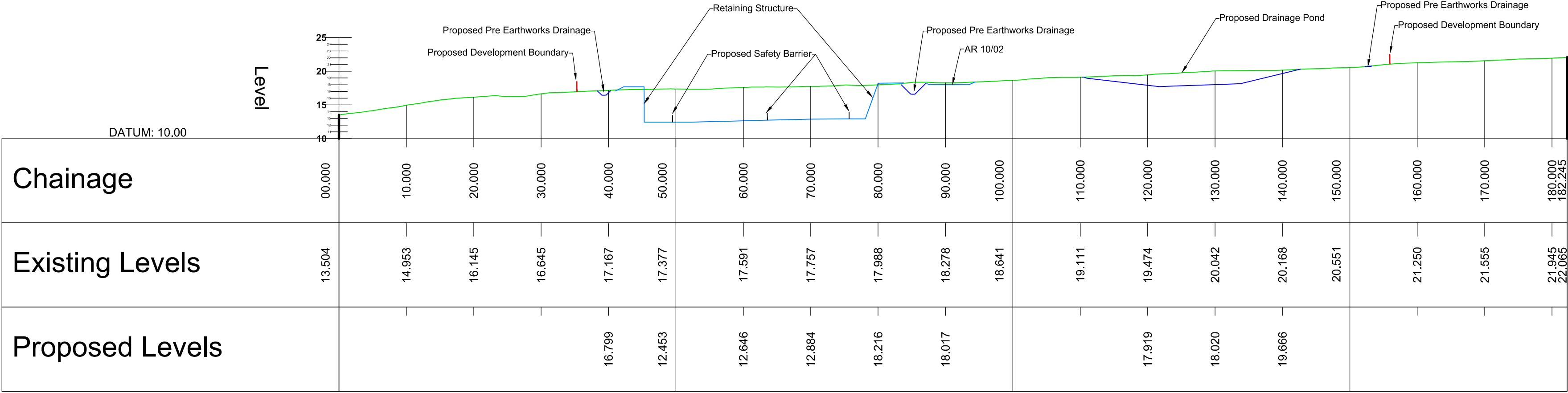
I1	30/08/2019	KJ	MH	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Retaining Wall West of Lackagh Tunnel
Cross Sections
Sheet 2 of 4

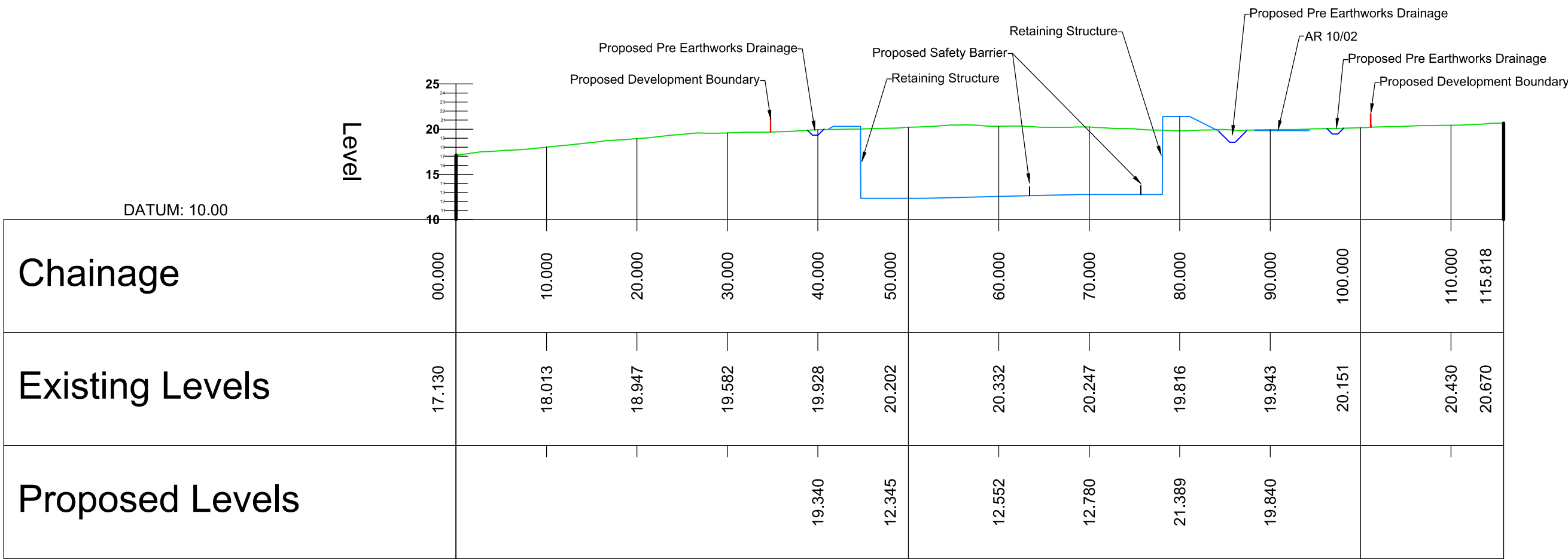
Drawing Status
For Information

Job No	Drawing No	Issue
233985	Figure 1.4.03	11

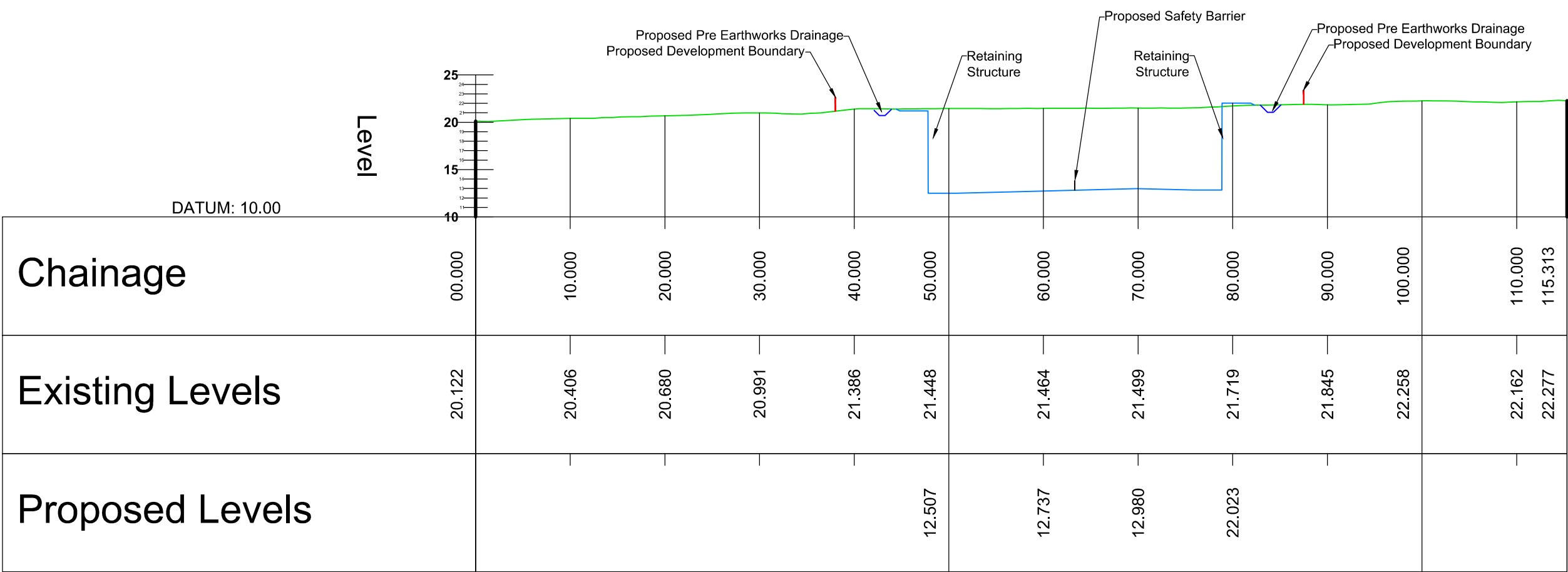
FOR INFORMATION



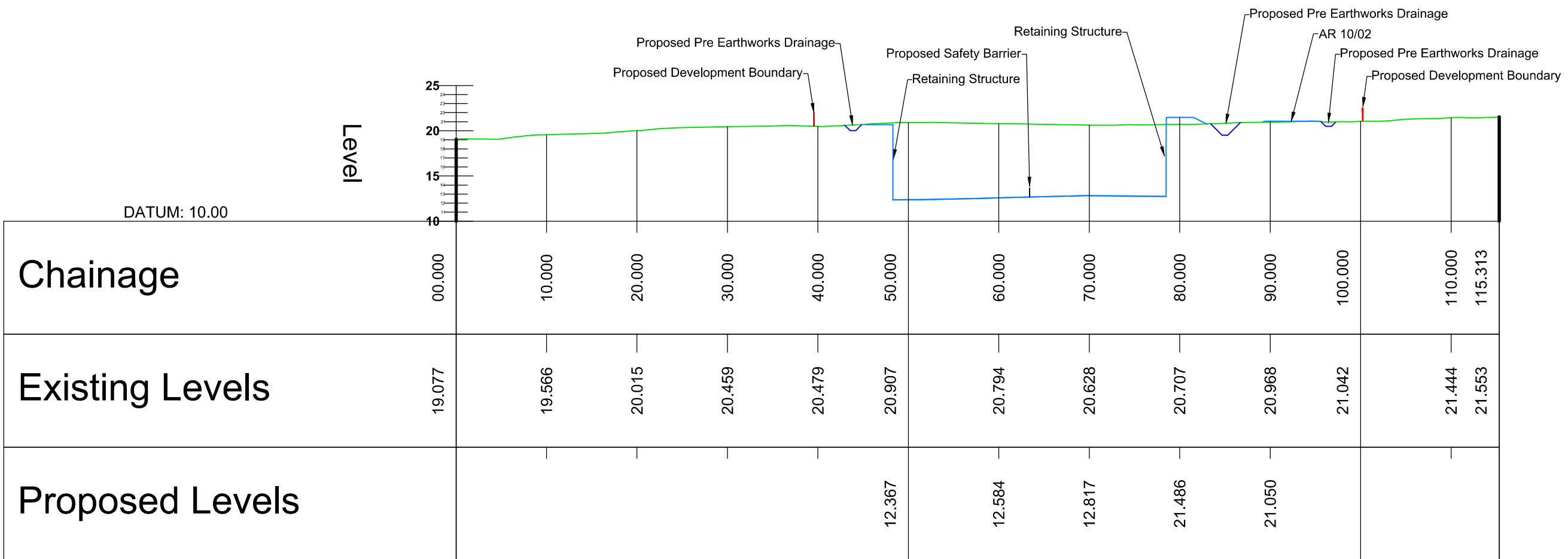
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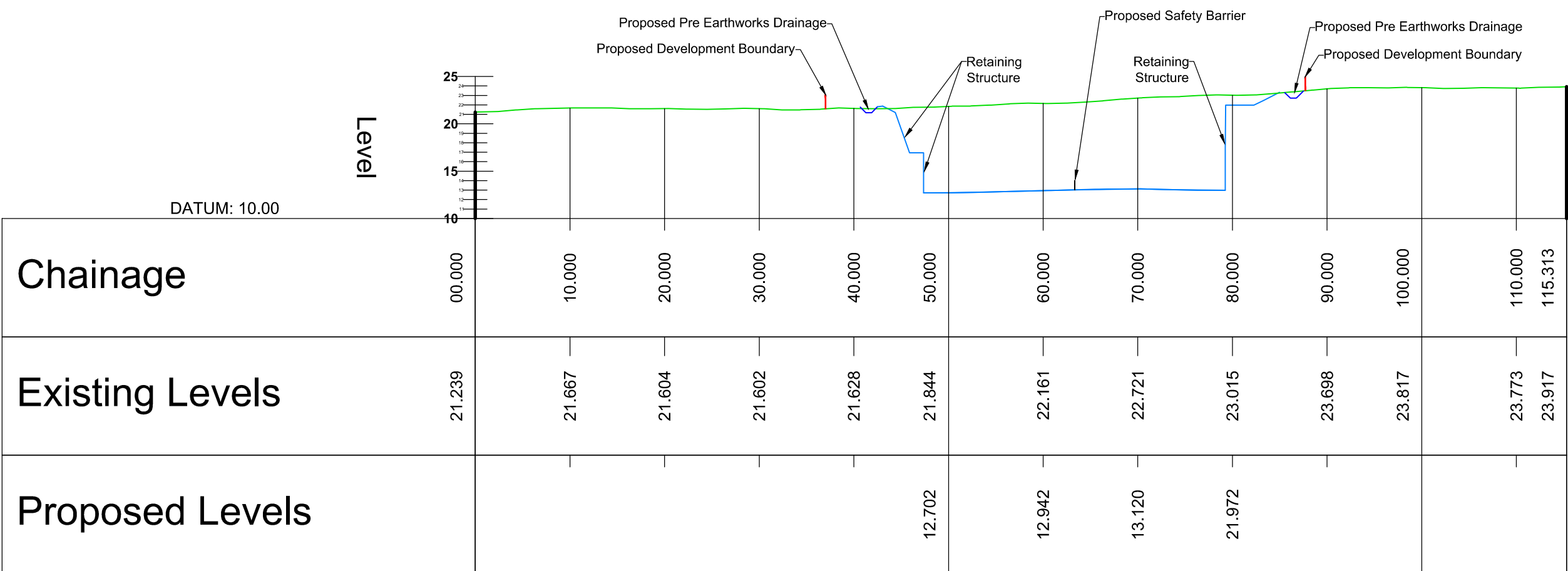
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CROSS SECTION G-G : CH 10+900



CROSS SECTION F-F : CH 10+875



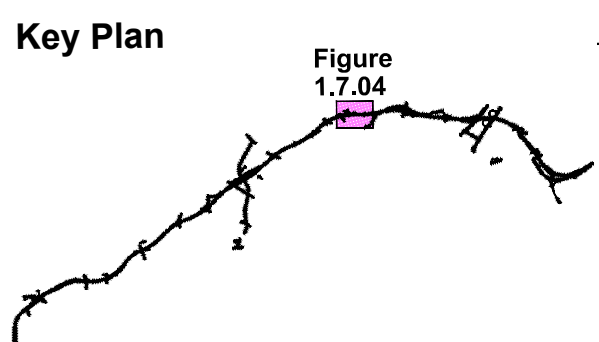
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Job Title
N6 Galway City Ring Road

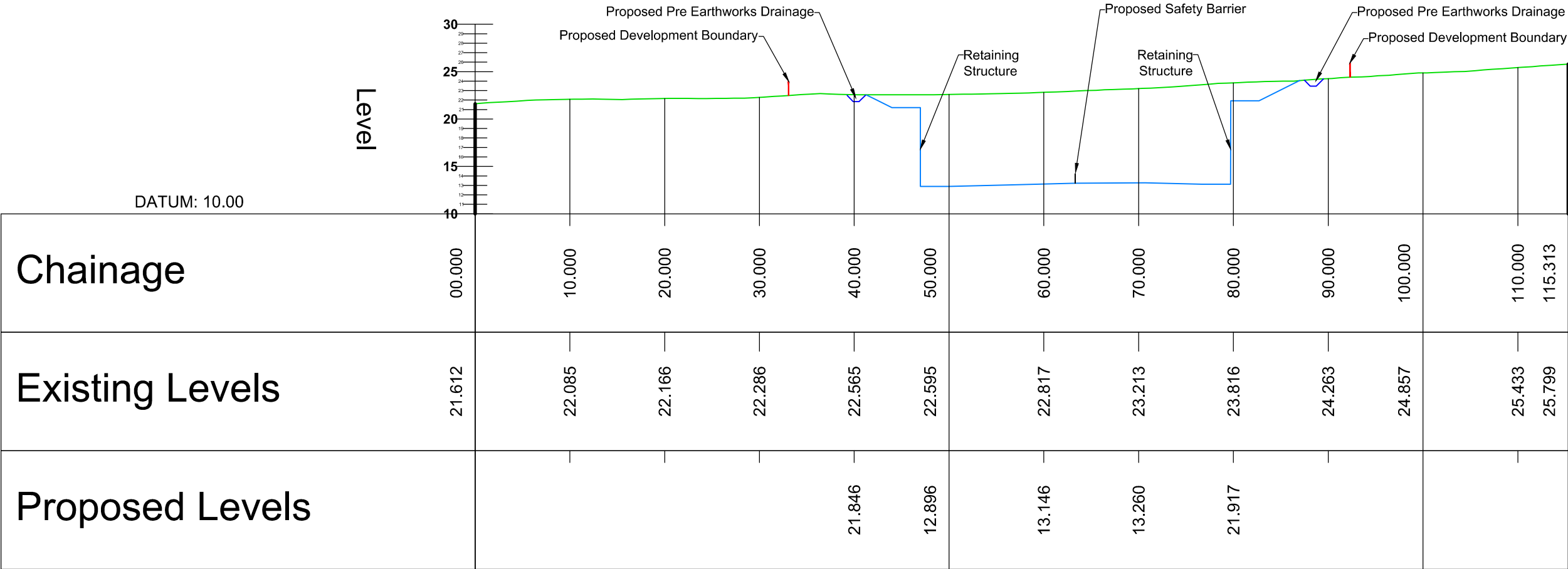
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1:1000 @ A3
Date
August 2019

I1	30/08/2019	KJ	MH	EMC
Issue	Date	By	Chkd	Appd

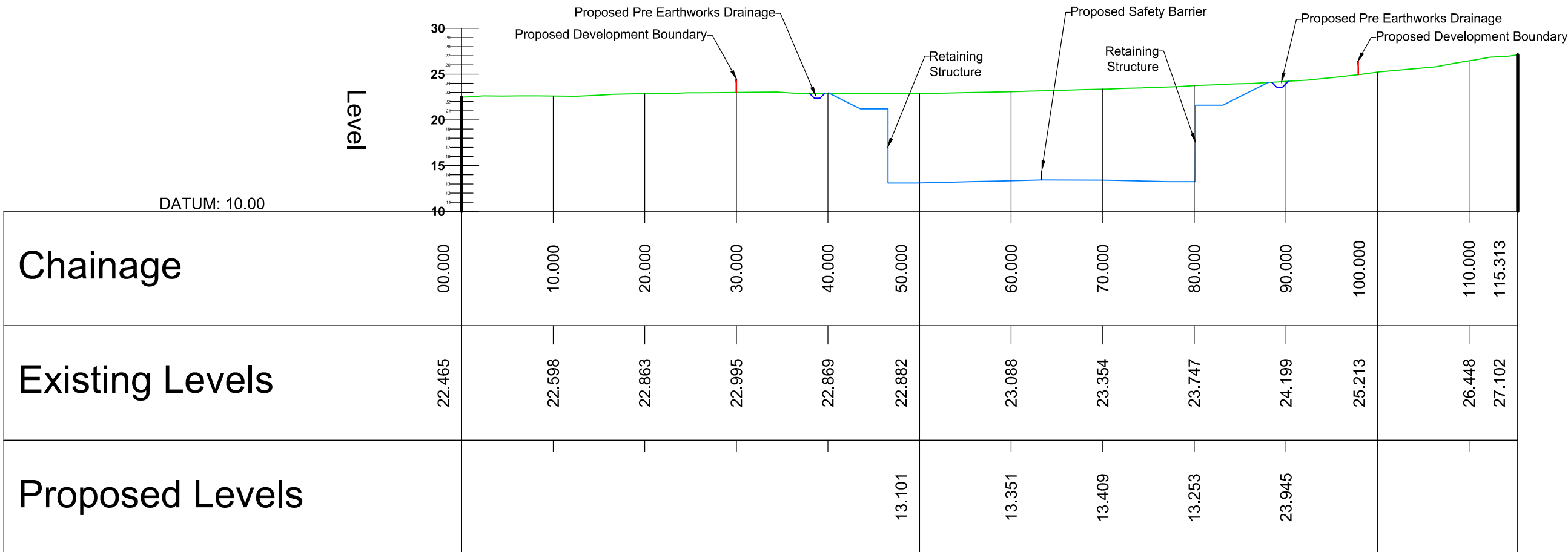
Drawing Title
Retaining Wall West of Lackagh Tunnel
Cross Sections
Sheet 3 of 4

Drawing Status
For Information

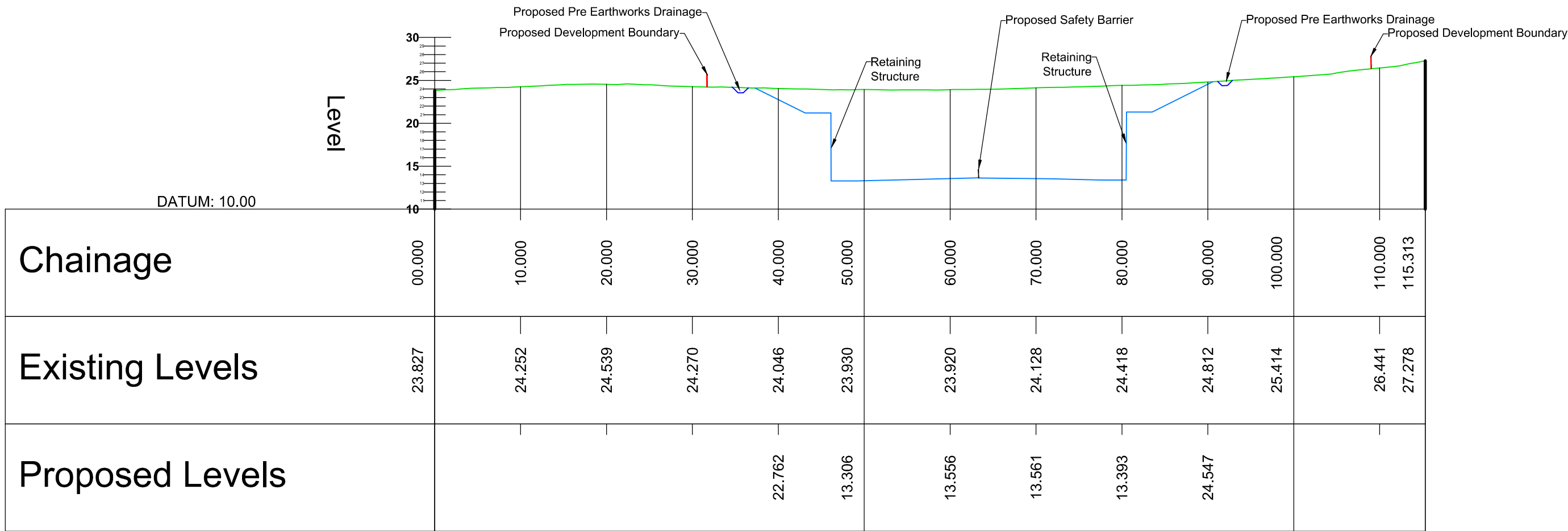
Job No 233985	Drawing No Figure 1.4.04	Issue 11
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CROSS SECTION I-I : CH 10+950

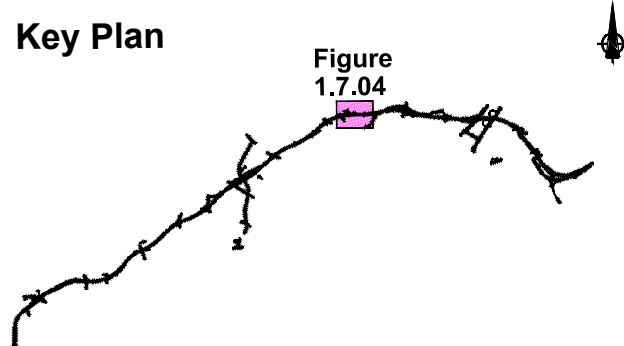


CROSS SECTION J-J : CH 10+975



CROSS SECTION K-K : CH 11+000

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Job Title

N6 Galway City Ring Road

Scale

1:1000 @ A3

Date:

August 2019

I1	30/08/2019	KJ	MH	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Retaining Wall West of Lackagh Tunnel

Cross Sections

Sheet 4 of 4

Drawing Status

For Information

Job No

233985

Drawing No

Figure 1.4.05

Issue

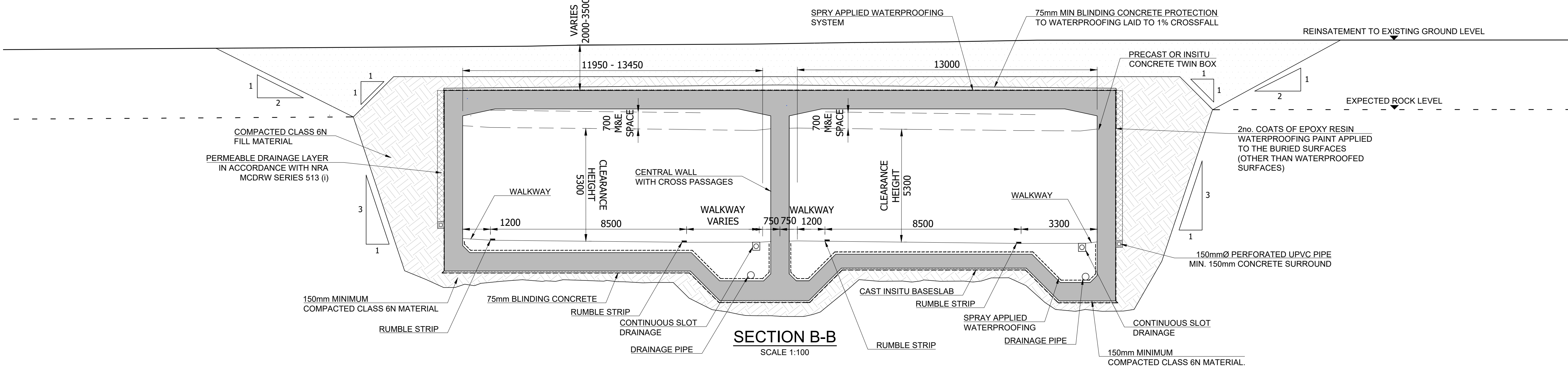
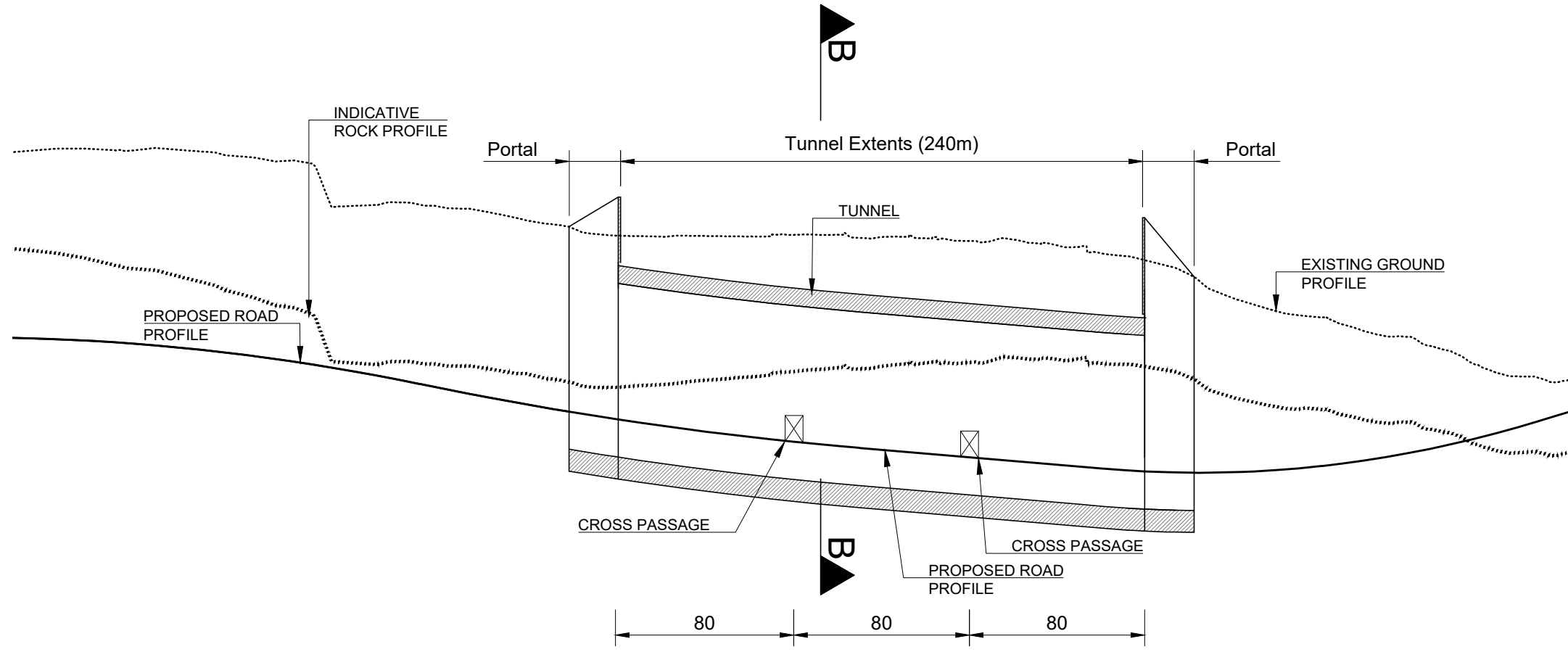
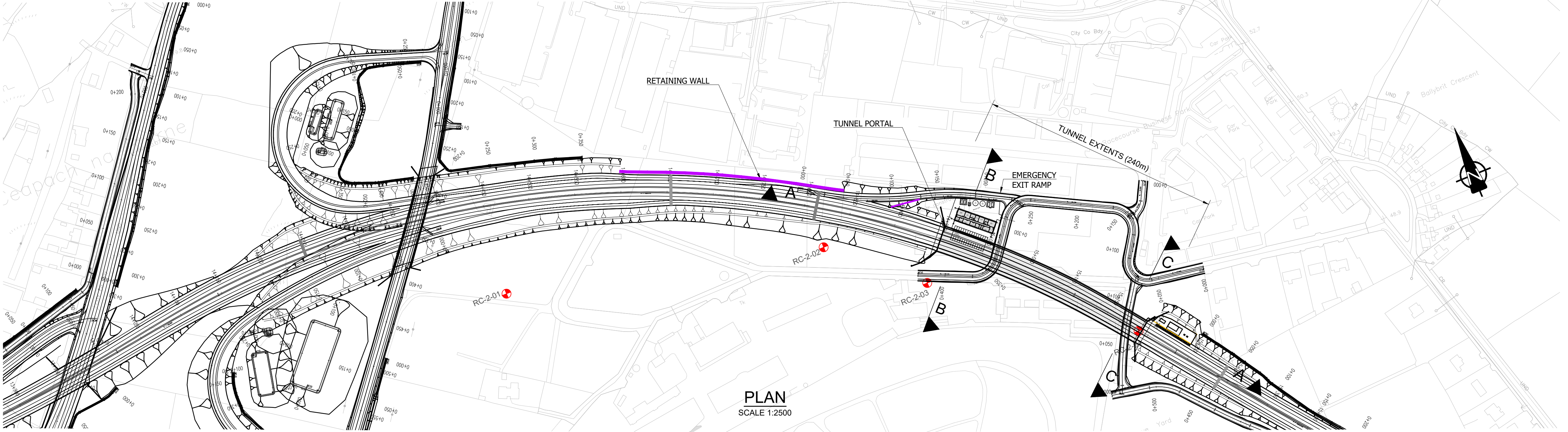
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Galway Racecourse Tunnel

- Drawings

DESIGN REPORT

- NOTES:
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 - ALL LEVELS ARE SHOWN IN METRES ABOVE ORDINANCE DATUM.



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Department Transport, Tourism and Sport

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Job Title

N6 Galway City Ring Road

Scale

As Noted

Date:

November 2016

I3	30/06/2017	LM	FB	PM
I2	02/06/2017	LM	FB	PM
I1	15/11/2016	AR	FB	PM
Issue	Date	By	Chkd	Appd

Drawing Title

S14-02 Galway Racecourse Tunnel
Plan, Profile & Section

Drawing Status

For Information

Job No

233985

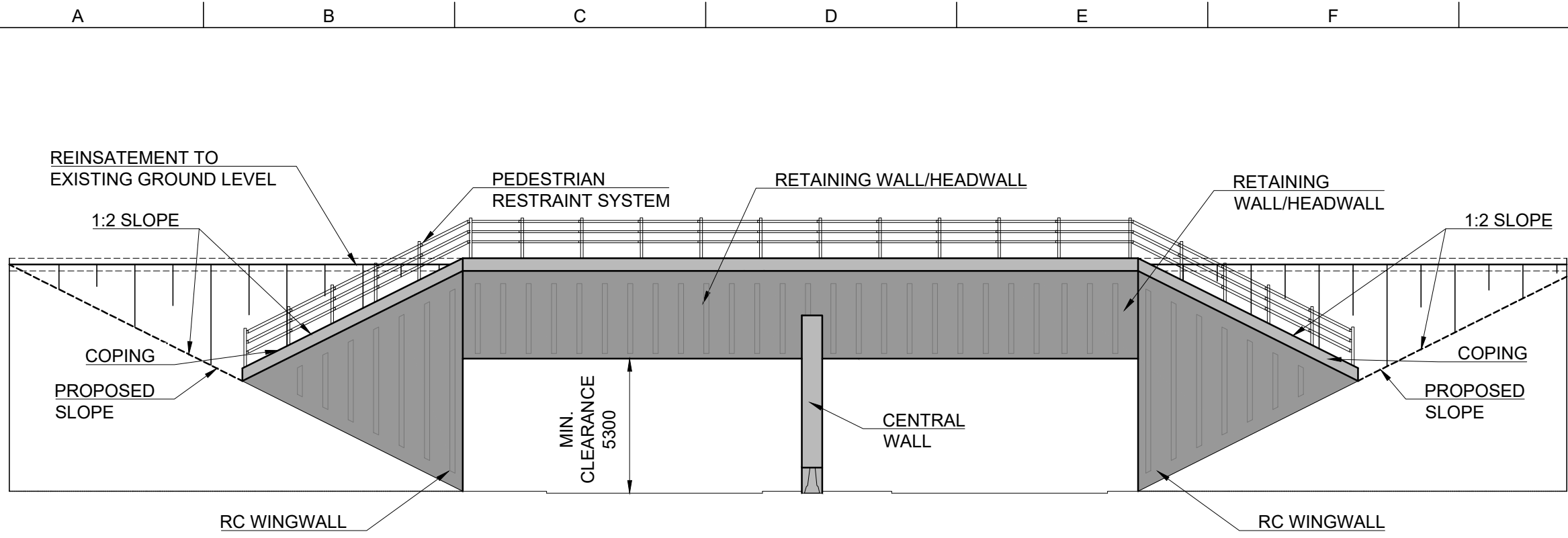
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GCOB-1700-D-S14-02-001

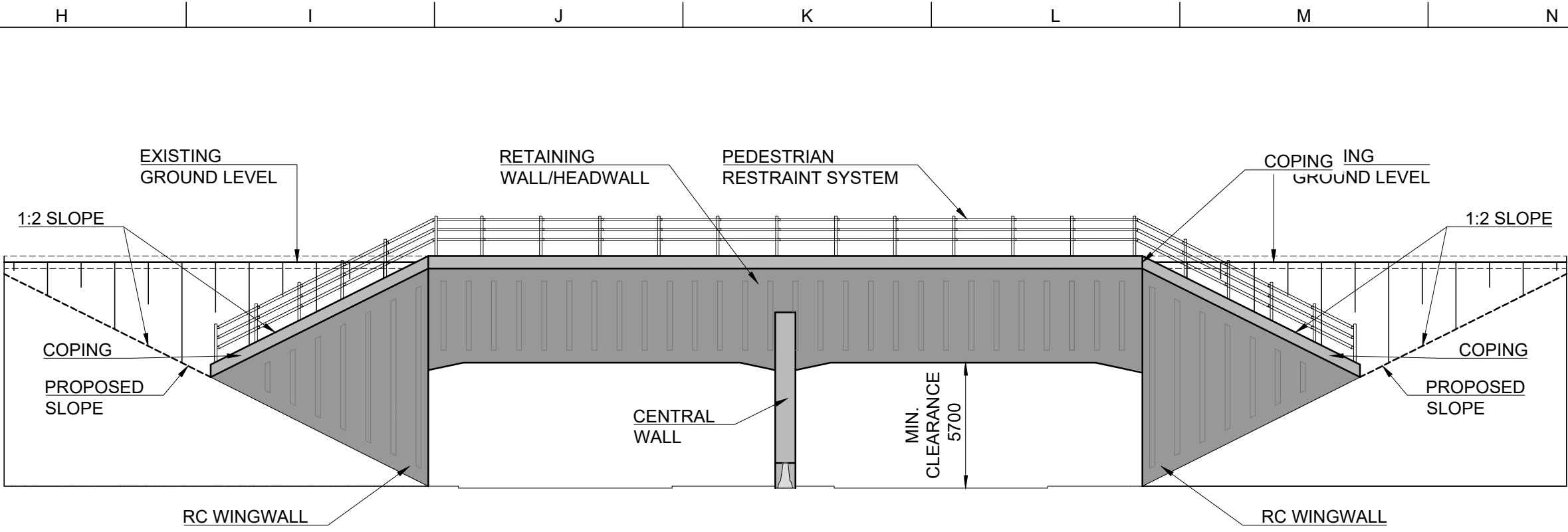
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I3

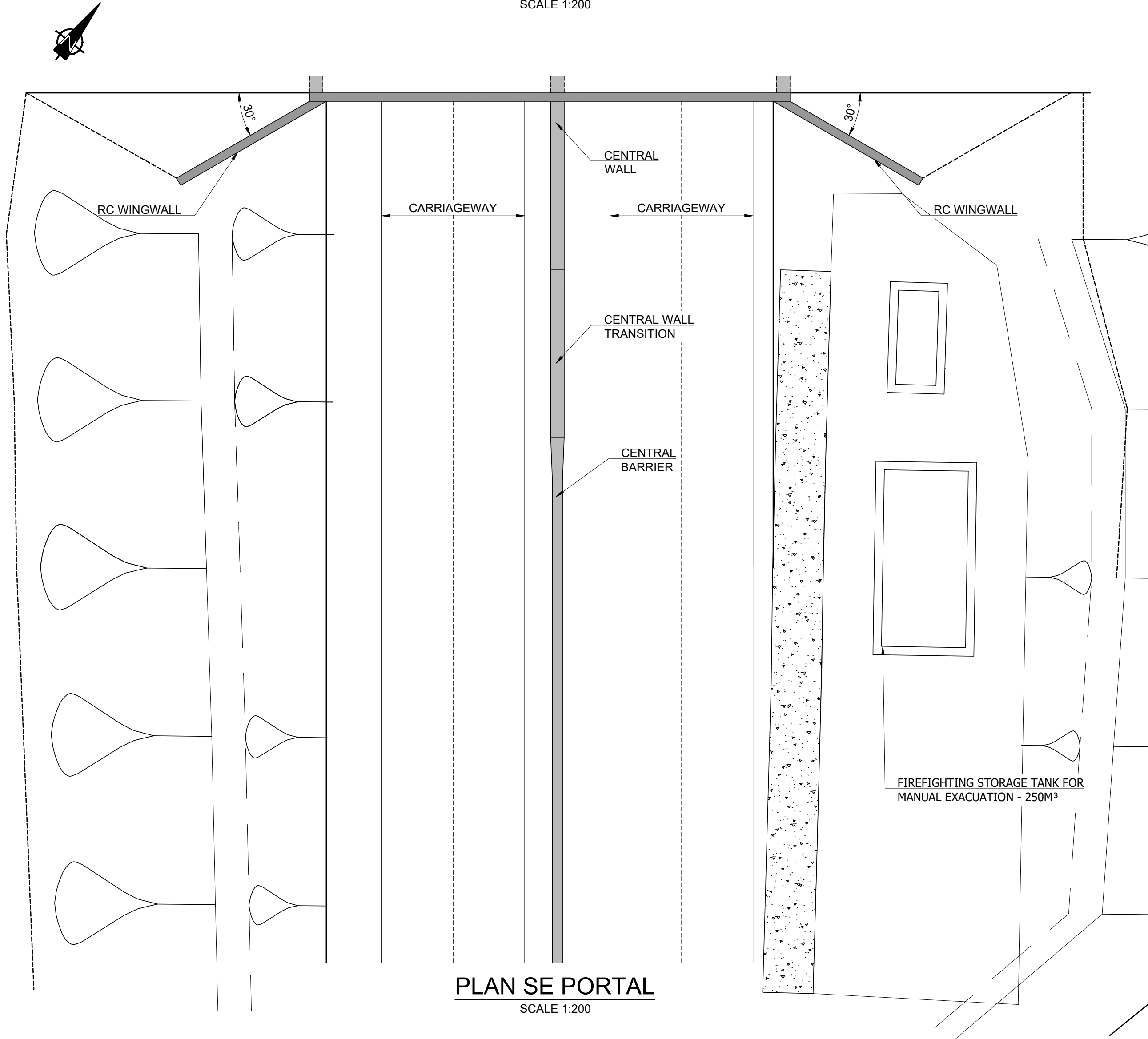
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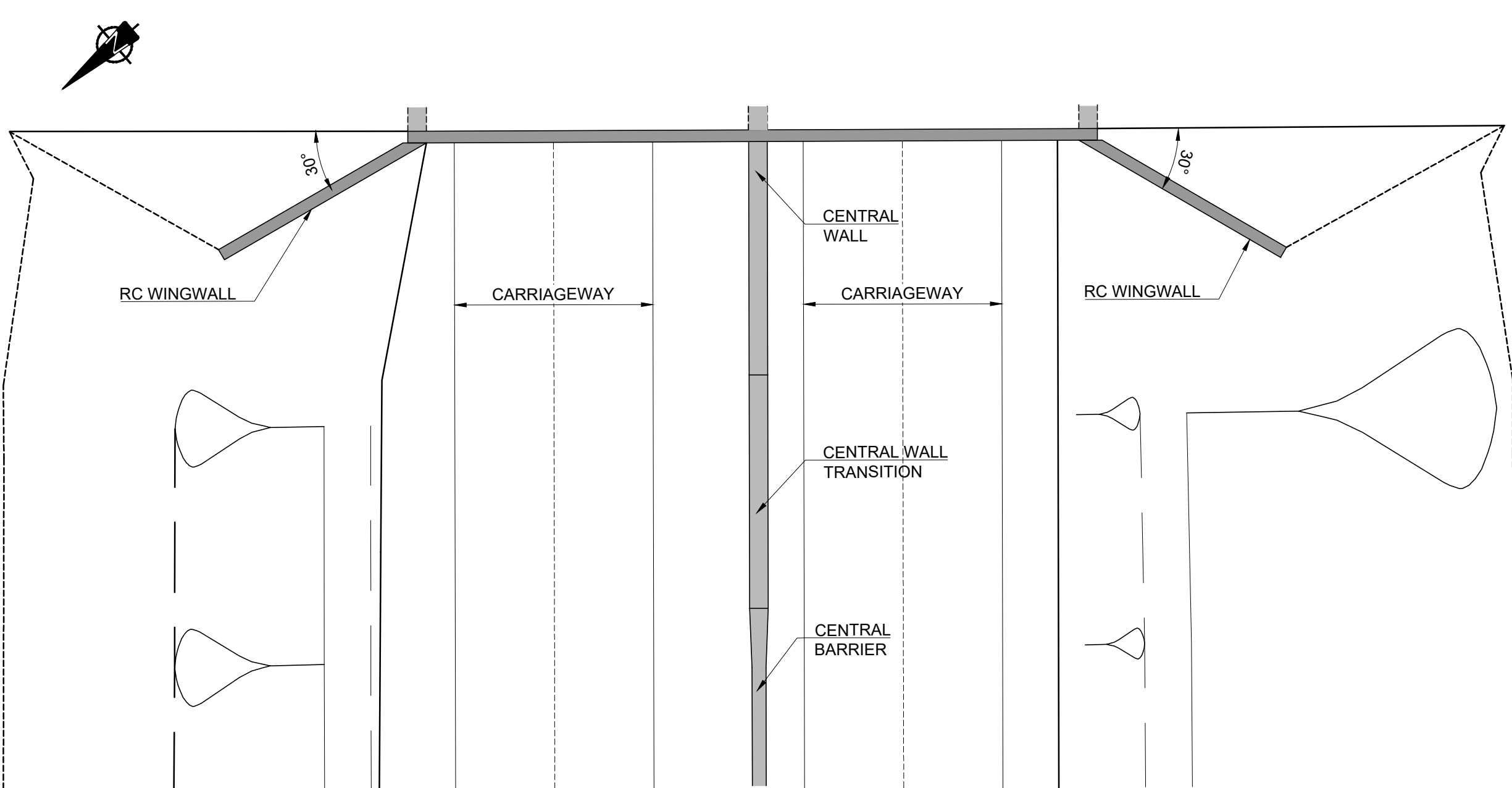
ELEVATION SE PORTAL
SCALE 1:200



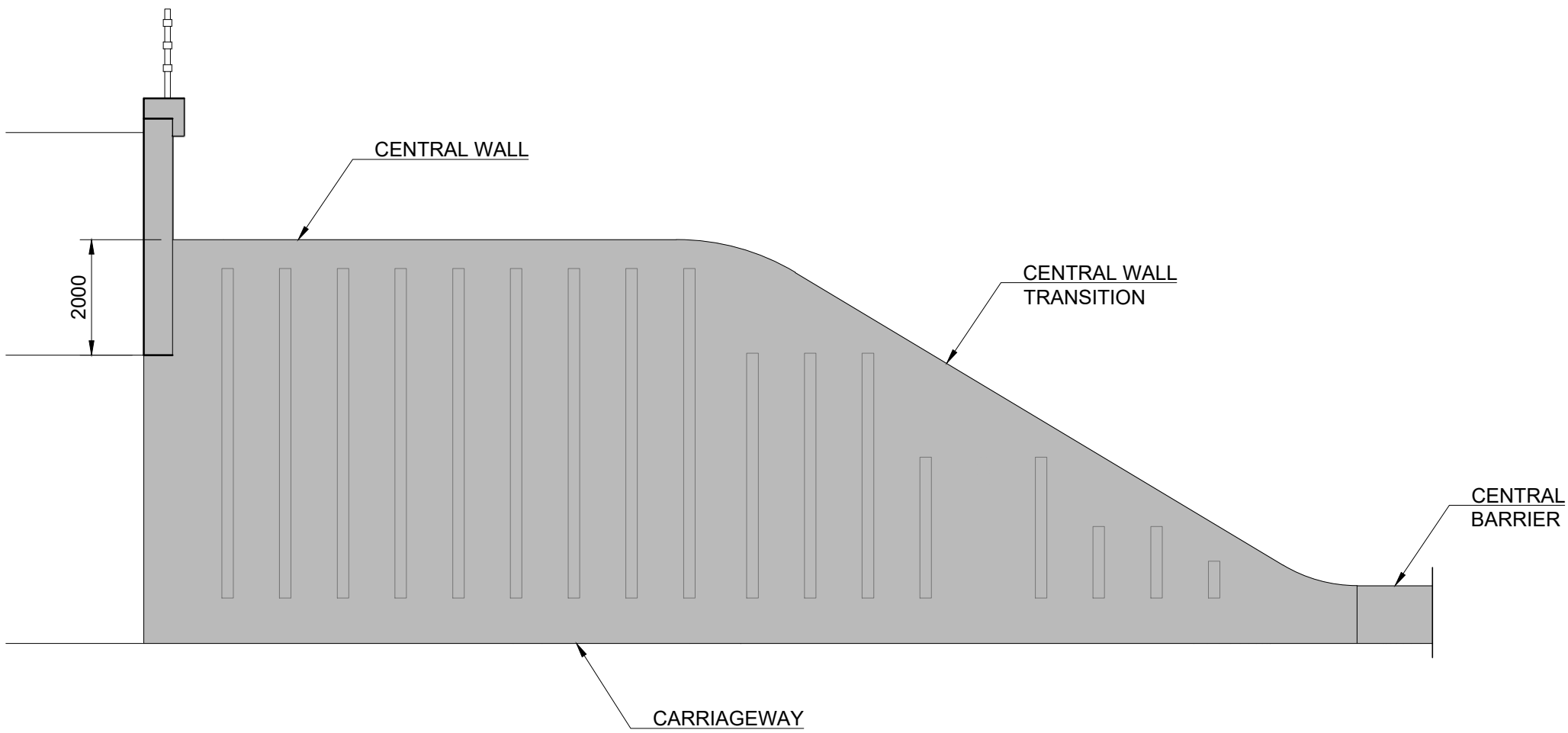
ELEVATION NW PORTAL
SCALE 1:200



PLAN SE PORTAL
SCALE 1:200



PLAN NW PORTAL
SCALE 1:200



ELEVATION OF CENTRAL WALL
SCALE 1:100

DESIGN REPORT

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Job Title
N6 Galway City Ring Road

Scale
As Noted

Date:
November 2016

I2	30/06/2017	LM	FB	PM
I1	02/06/2017	LM	FB	PM
Issue	Date	By	Chkd	Appd

Drawing Title
S14-02 Galway Racecourse Tunnel Tunnel Portal

Drawing Status
For Information

Job No	Drawing No	Issue
233985	GCOB-1700-D-S14-02-002	I2

A1
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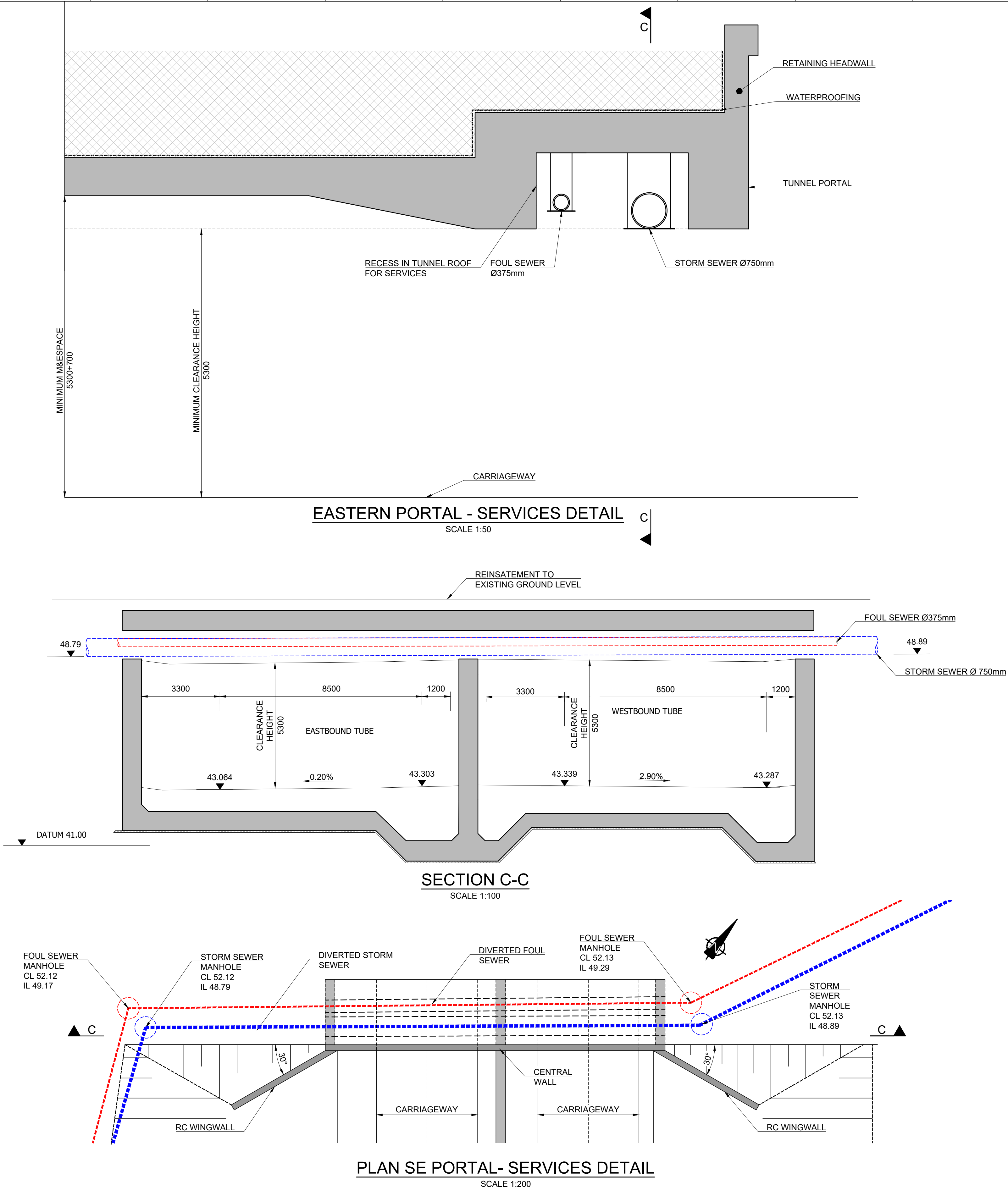
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DESIGN REPORT

NOTES:

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Galway County Council



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Turasóireachta agus Spóirt
Department of Transport, Tourism and Sport



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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

As Noted

Date:

November 2016

I2	30/06/2017	LM	FB	PM
I1	02/06/2017	LM	FB	PM
Issue	Date	By	Chkd	Appd

Drawing Title

S14-02 Galway Racecourse Tunnel
Utilities at South East Portal

Drawing Status

For Information

Job No

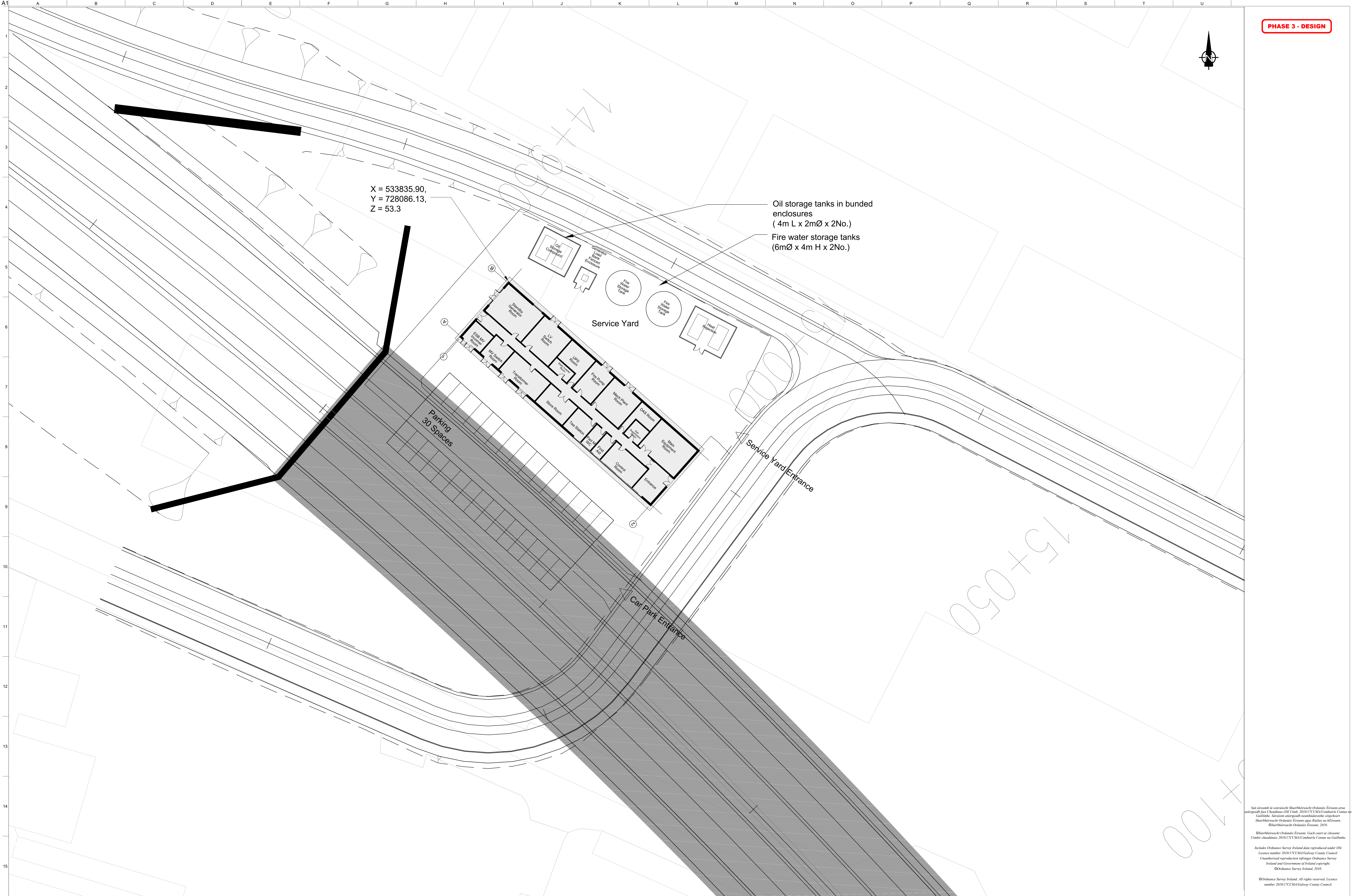
233985

Drawing No

GCOB-1700-D-S14-02-003

Issue

I2



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Client



Comhairle Chontae na Gaillimhe
Galway County Council



N6
Galway City
Transport Project



An Róipín Iompair
Turastaisreacht agus Sport
Department Transport, Tourism and Sport



TII
Transport Infrastructure Ireland

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Job Title		N6 Galway City Ring Road	
Scale		1:200 @A0	
Date:		June 2017	

17	22/06/17	GOD	AJD	AJD
16	02/06/17	SK	AJD	AJD
15	24/05/17	EK	AJD	AJD
14	08/05/17	EK	AJD	AJD
13	17/02/17	EK	AJD	AJD
12	09/12/2016	SK	AJD	AJD
11	20/10/2016	SK	AJD	AJD
Issue	Date	By	Chkd	Appd

Drawing Title			Galway Racecourse Tunnel Proposed Technical Services Building		
Drawing Status			For Information		
Job No	Drawing No	Issue			
233985	GCOB-2700-D-1000	17			

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Do not scale

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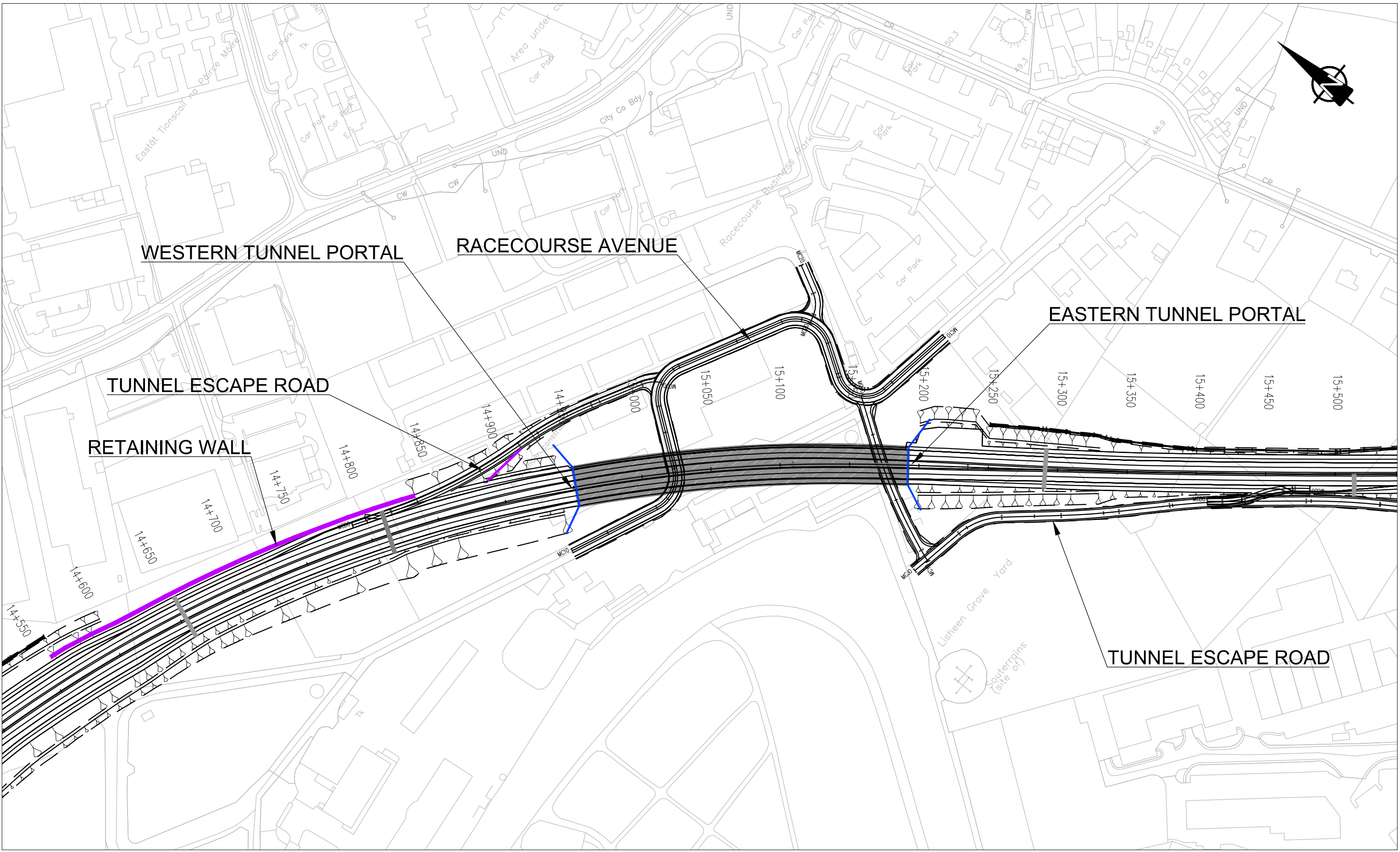
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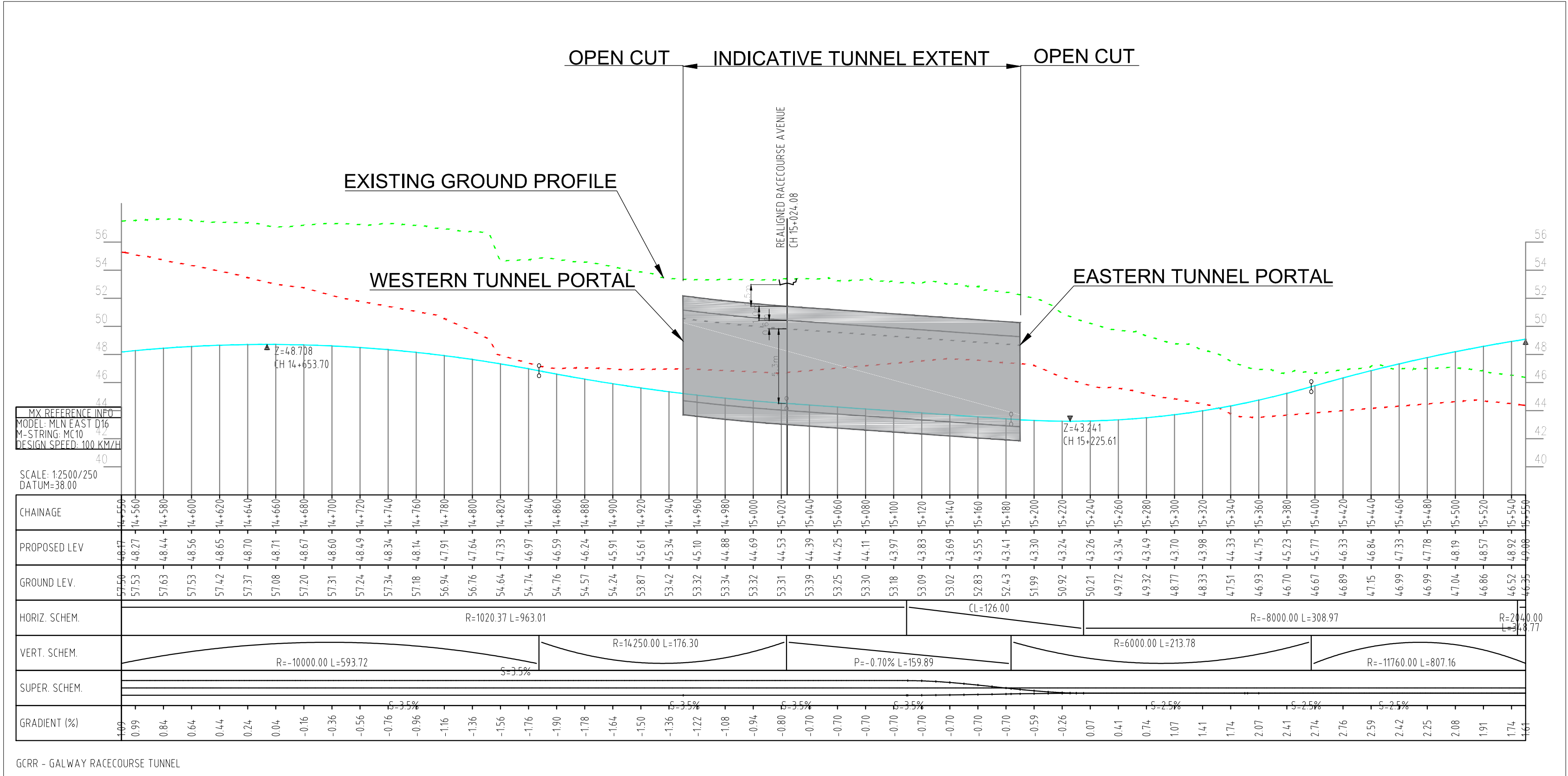
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PLAN VIEW

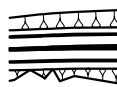


PROFILE VIEW

PHASE 3 - DESIGN

Legend:

Plan view



Current Design



Structure



Retaining Wall



Tunnel Outline

Profile view



Existing Ground Level



Indicative Rock Level



Proposed Road Level



Tunnel Outline

San áireamh tá sonraíocht Shuirbhíreacht Ordanáis Éireann arna atáirgeadh faoi Cheadúnas OSI Uimh. 2010/17CCMA/Comhairle Contae na Gaillimhe. Sáraíonn atáirgeadh neamhiúdaraithe cóipeacht Shuirbhíreacht Ordanáis Éireann agus Rialtas na hÉireann. © Suirbhíreacht Ordanáis Éireann, 2010.

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Job Title
N6 Galway City Transport Project

Scale: Plan: 1:2500 Profile: 1:2500 H / 1:250 V @ A1
Date: May 2017

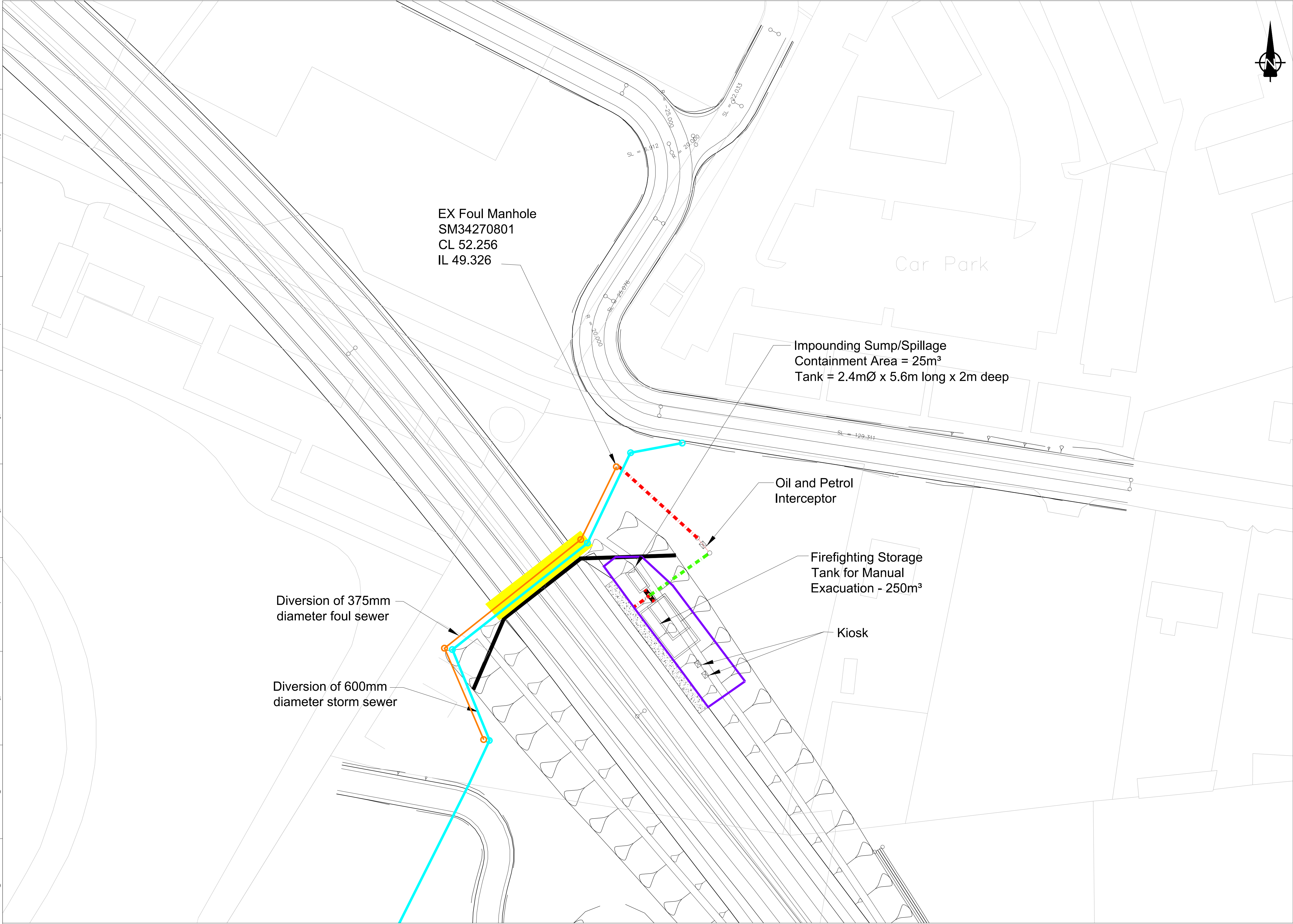
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I4	06/12/2016	GOD	MH	EMC
I3	19/10/2016	ND	HK	EMC
I2	12/10/2016	GOD	HK	EMC
I1	18/05/2016	GOD	HK	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
S14-02 Galway Racecourse Tunnel
Plan & Profile
Alignment

Drawing Status

For Information

Job No	Drawing No	Issue
233985-00	GCOB-SK-D-674	I5



FOR INFORMATION

Legend:

- Current Design - N6 Galway City Ring Road (GCRR)
- Proposed Foul Sewer Diversion
- Proposed Surface Water Sewer Diversion
- Proposed Foul Sewer
- Proposed Foul Rising Main

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Galway County Council

Galway City Transport Project

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Turasóireachta agus Spóirt

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Job Title

N6 Galway City Ring Road

Scale

1:1000 @ A1 / 1:2000 @ A3

Date:

Jan 2017

I1	06/01/2017	IA	EMC	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Galway Racecourse Tunnel
Proposed Sump Location and
Sewer Diversion

Drawing Status

For Information

Job No
233985-00

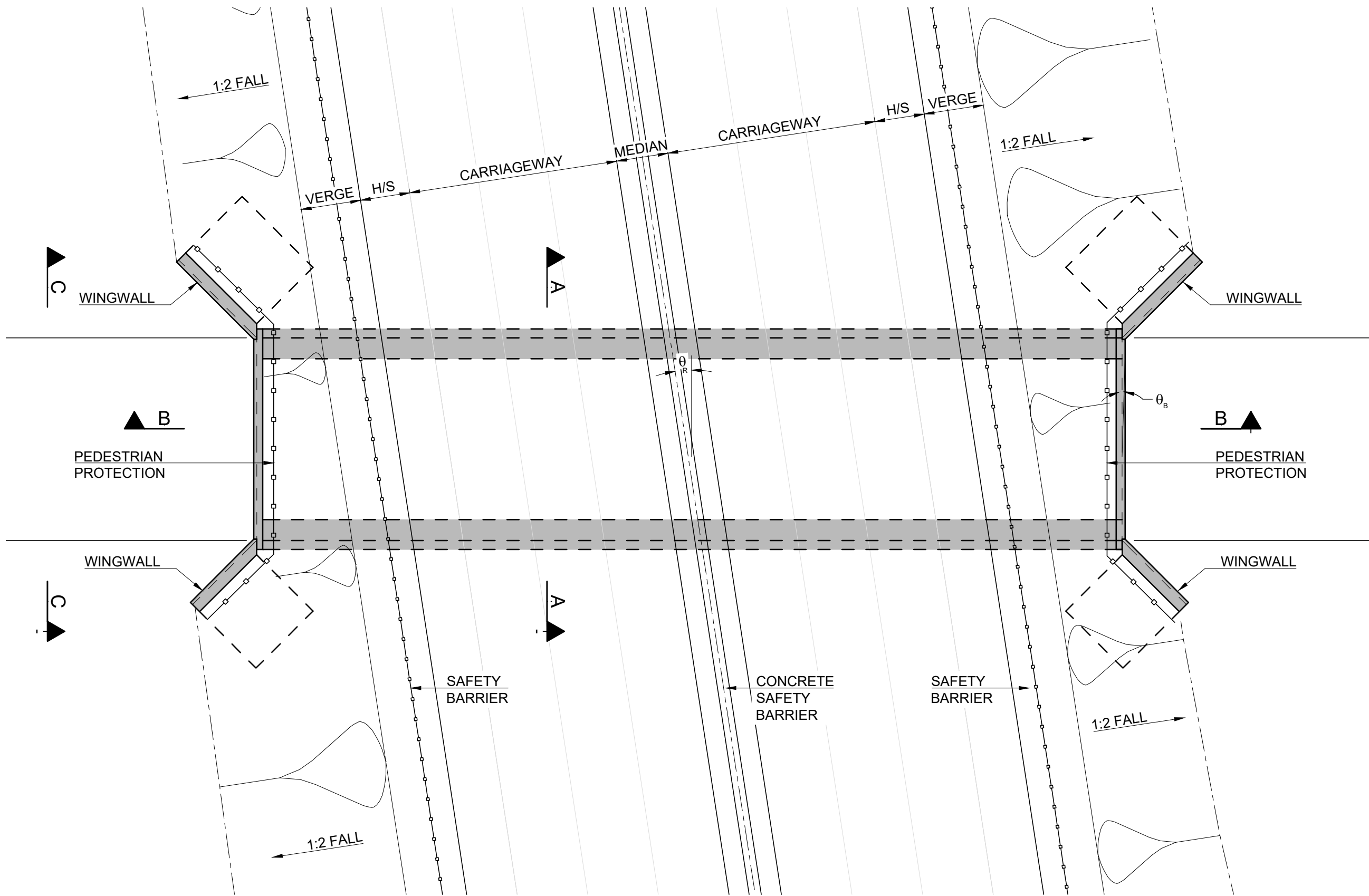
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Issue
11

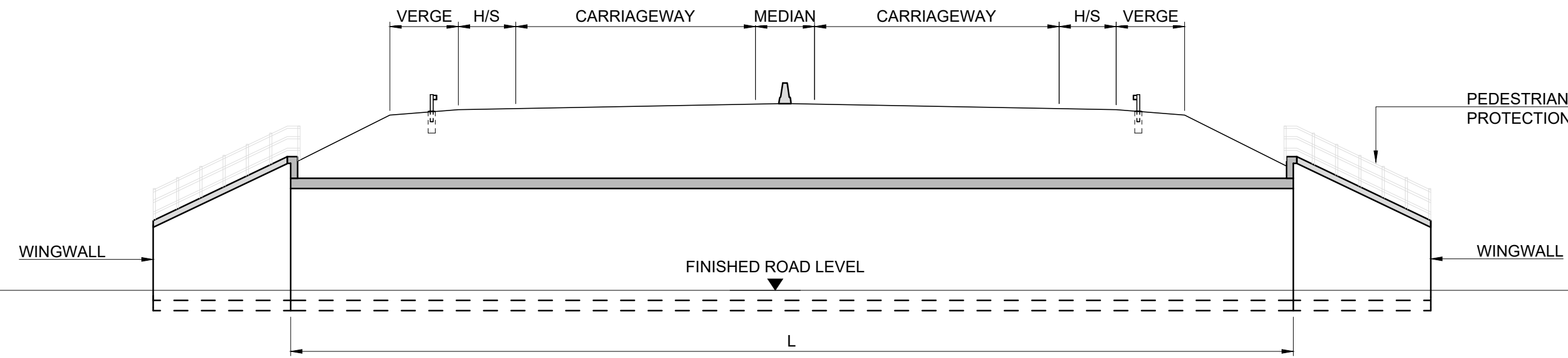
Standard Underbridges - Drawings

NOTES:

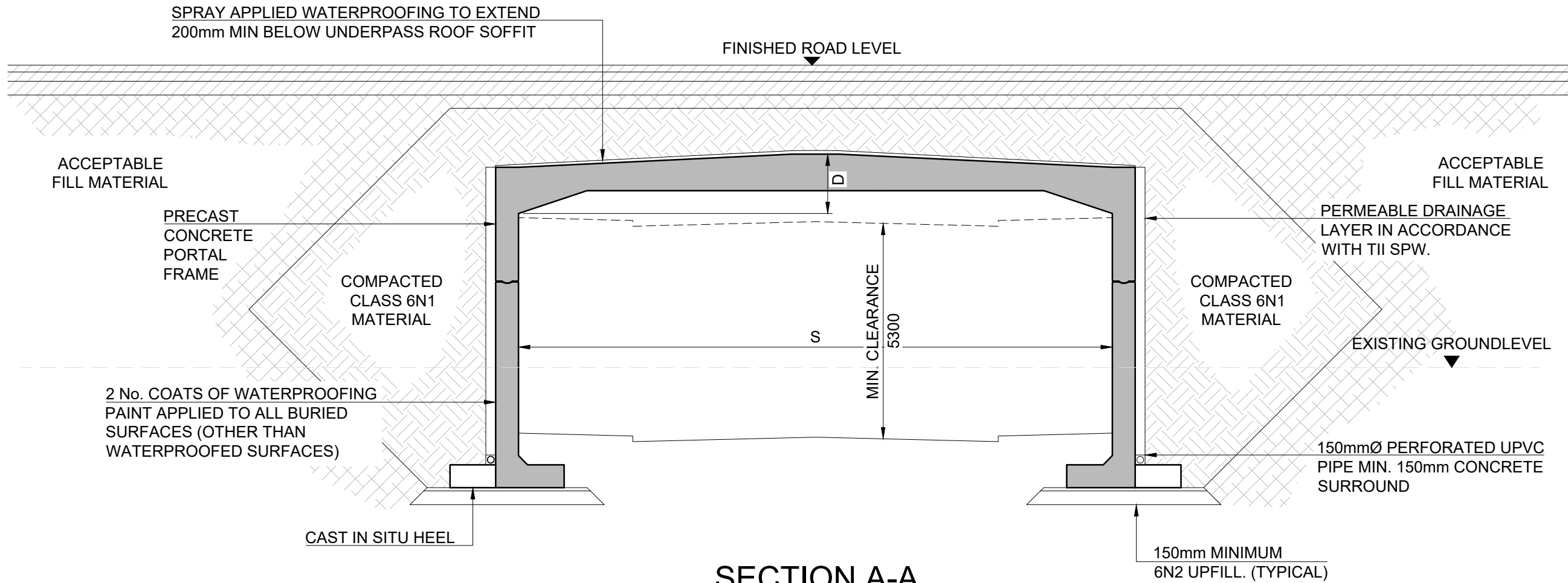
- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.



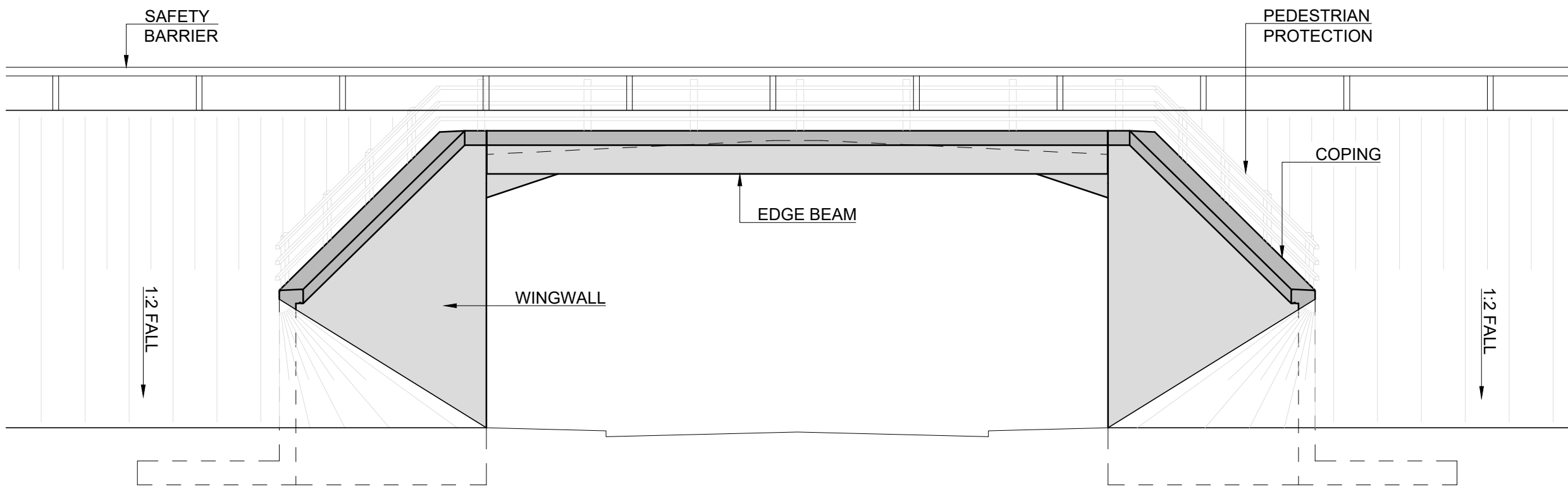
PLAN ON STRUCTURE
SCALE 1:200



SECTION B-B
SCALE 1:200



SECTION A-A
SCALE 1:100



ELEVATION C-C
SCALE 1:100

Reference	Name	Chainage	Clear Span, S [m]	Length, L [m]	Structural Depth, SD (including haunch) [m]	Bridge Skew Angle, θ_B (deg)	Road Skew Angle, θ_R (deg)
S06/01	Rahoon Road Underbridge	06+335	12.5	52.0	1.30	0	36
S07/01	Letteragh Road underbridge	07+290	12.5	71.0	1.30	0	25
S09/01	Menlo Castle Boithrin Underbridge	09+730	10.0	37.0	0.75	0	0
S10/02	Seanbothar Underbridge	10+520	9.8	49.0	0.75	0	32

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Job Title
N6 Galway City Ring Road

Scale
AS SHOWN @ A1

Date:
November 2016

I3	30/06/2017	PD	PM	EMC
I2	11/11/2016	PD	PM	EMC
I1	04/07/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

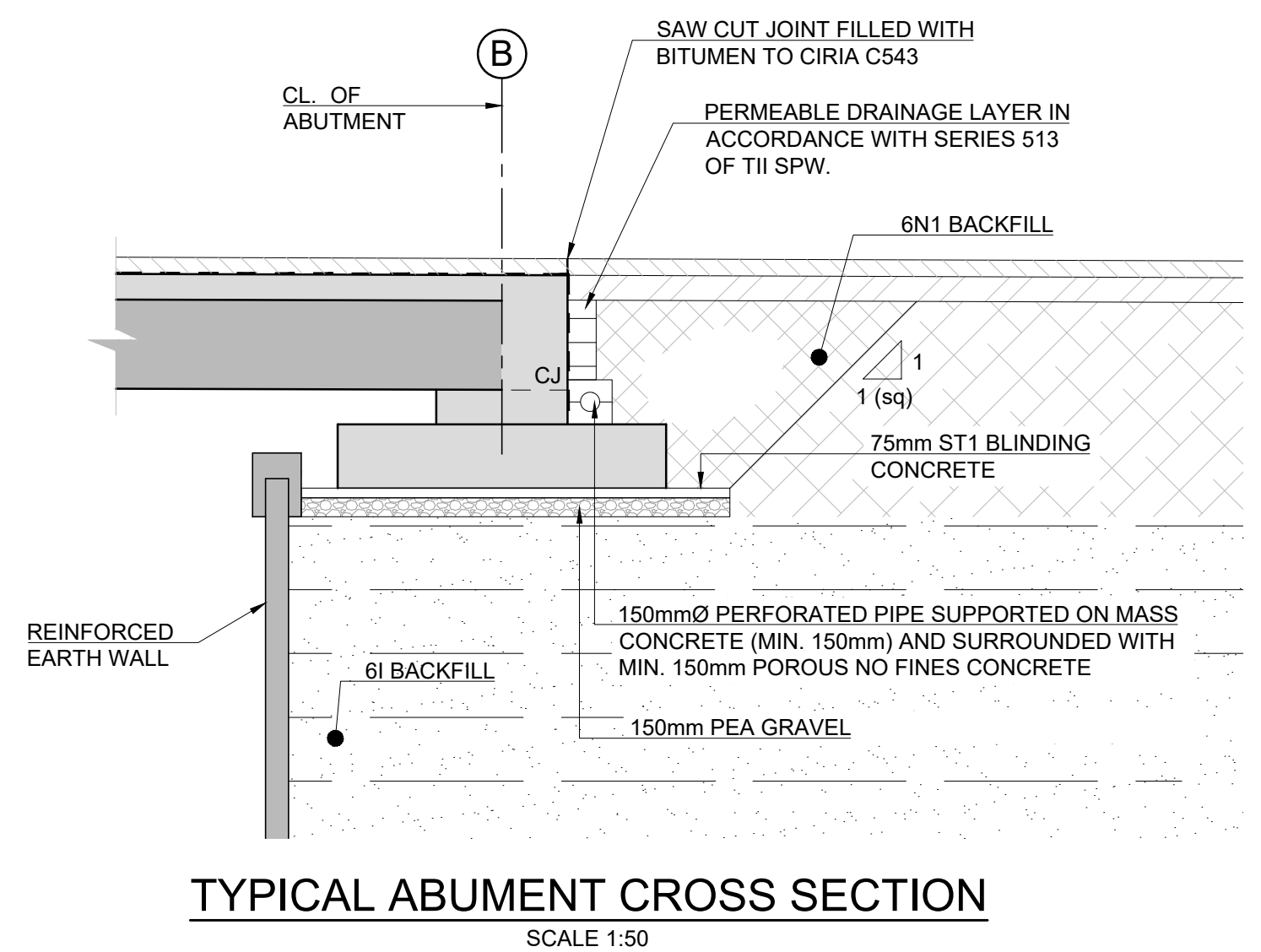
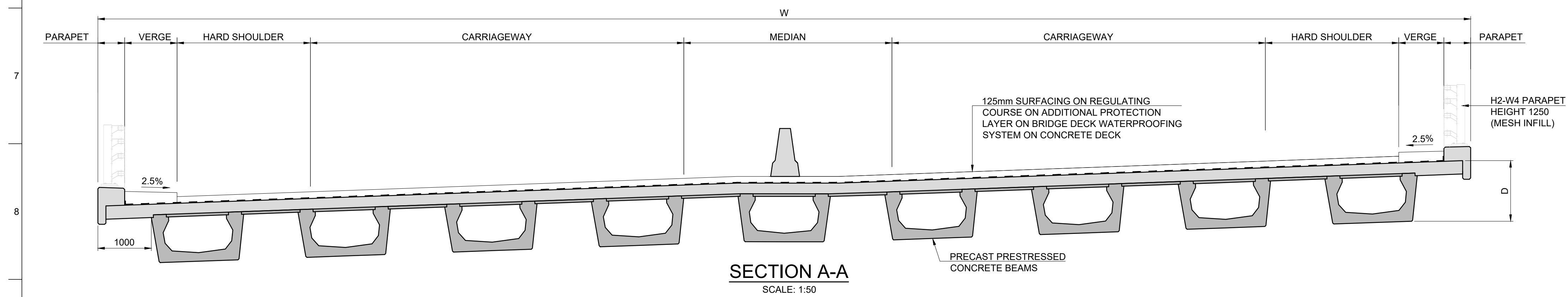
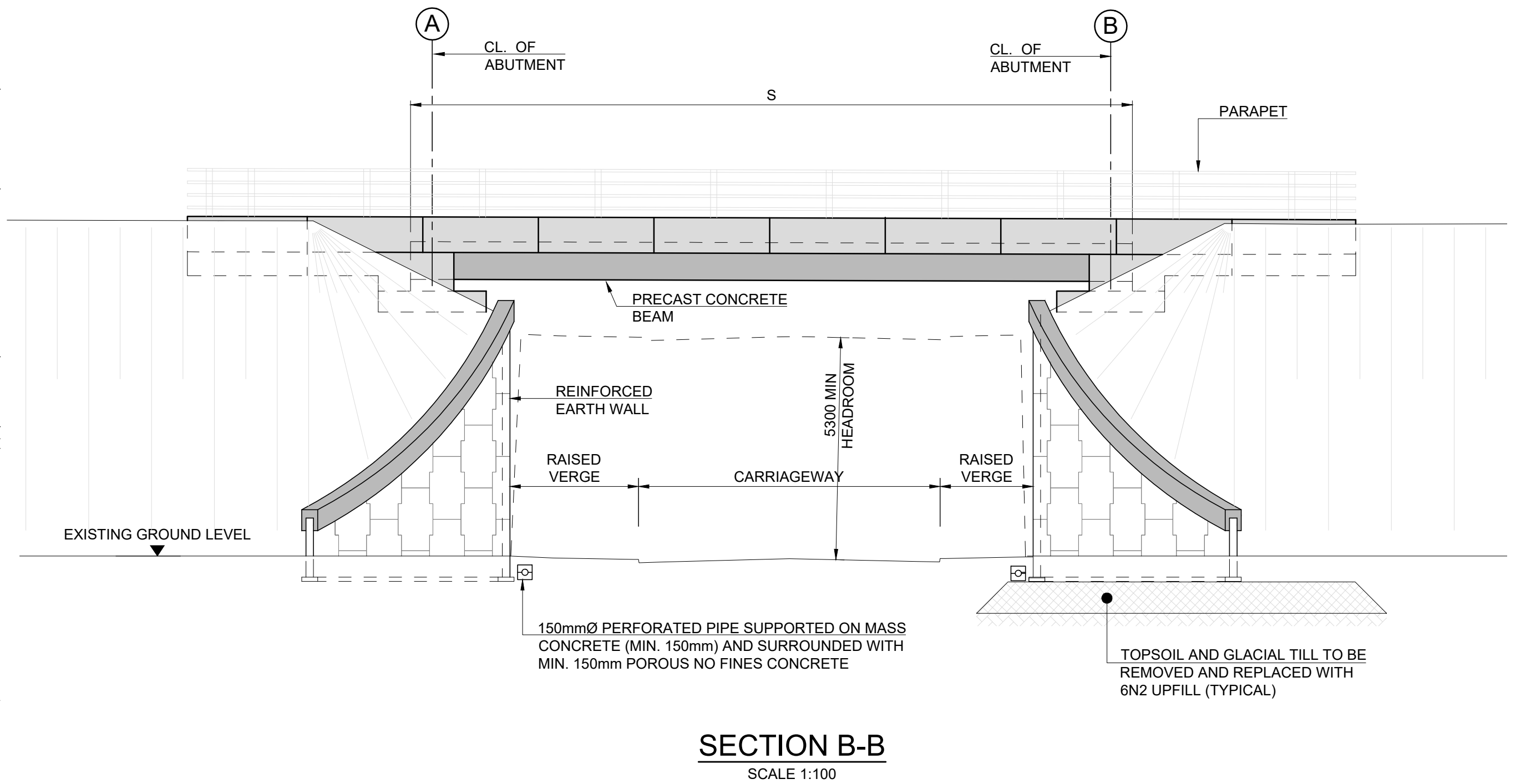
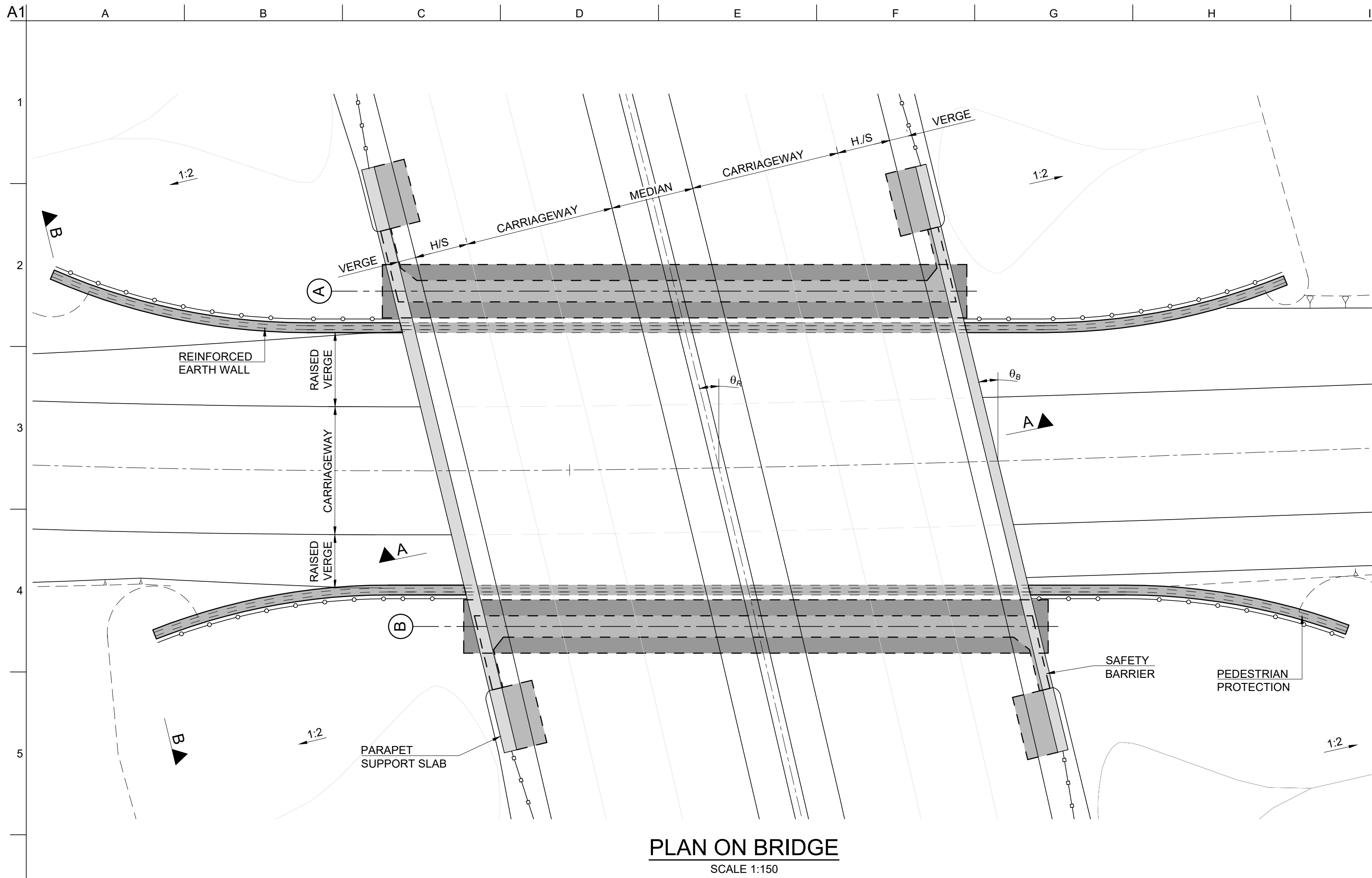
Drawing Title
Standard Underbridges:
Type 1

Drawing Status
For Information

Job No
233985

Drawing No
GCOB-1700-D-GEN-001

Issue
I3



Reference	Name	Chainage	Total Deck Length, S [m]	Width, W [m]	Structural Depth, D [m]	Bridge Skew Angle, θ_B (deg)	Road Skew Angle, θ_R (deg)
S15/01	Briarhill Business Park Underbridge	15+725	15.5	25.1	1.15	8	8

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Job Title
N6 Galway City Ring Road

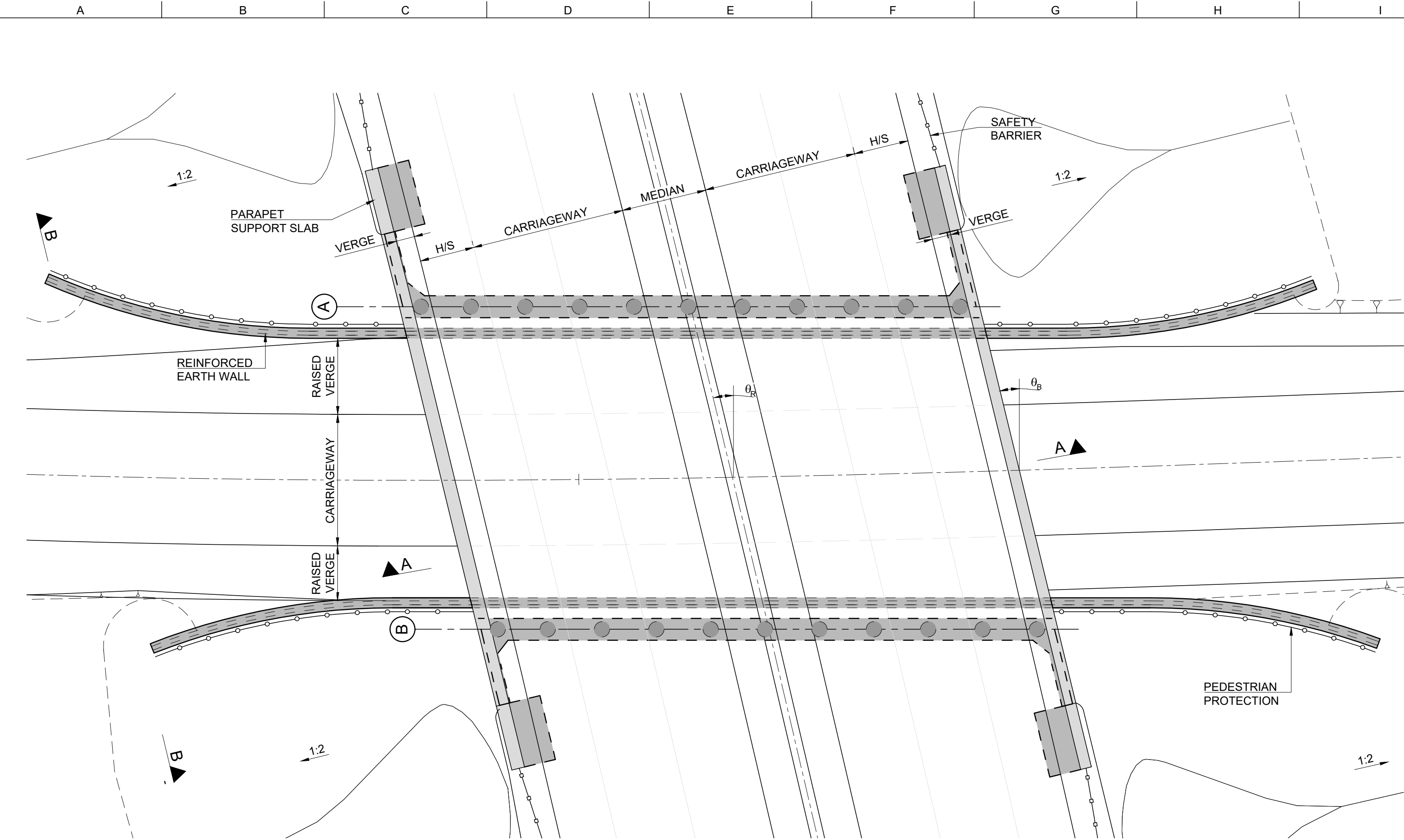
Scale
AS SHOWN @ A1

Date:
November 2016

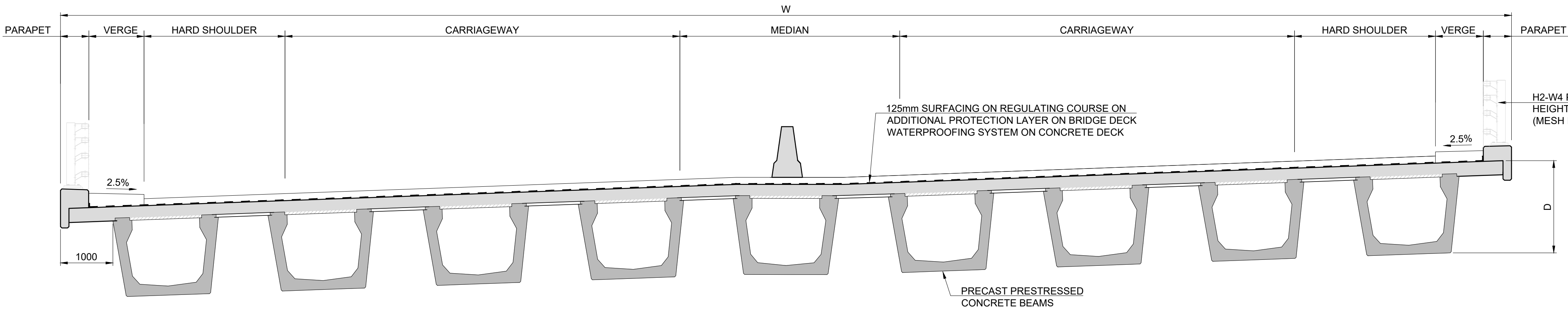
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I3	20/04/2017	PD	PM	EMC
I2	11/11/2016	PD	PM	EMC
I1	04/07/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title		
Standard Underbridges: Type 2A		
Drawing Status		
For Information		
Job No	Drawing No	Issue
233985	GC0B-1700-D-GEN-002	14

A1
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PLAN ON BRIDGE
SCALE 1:150

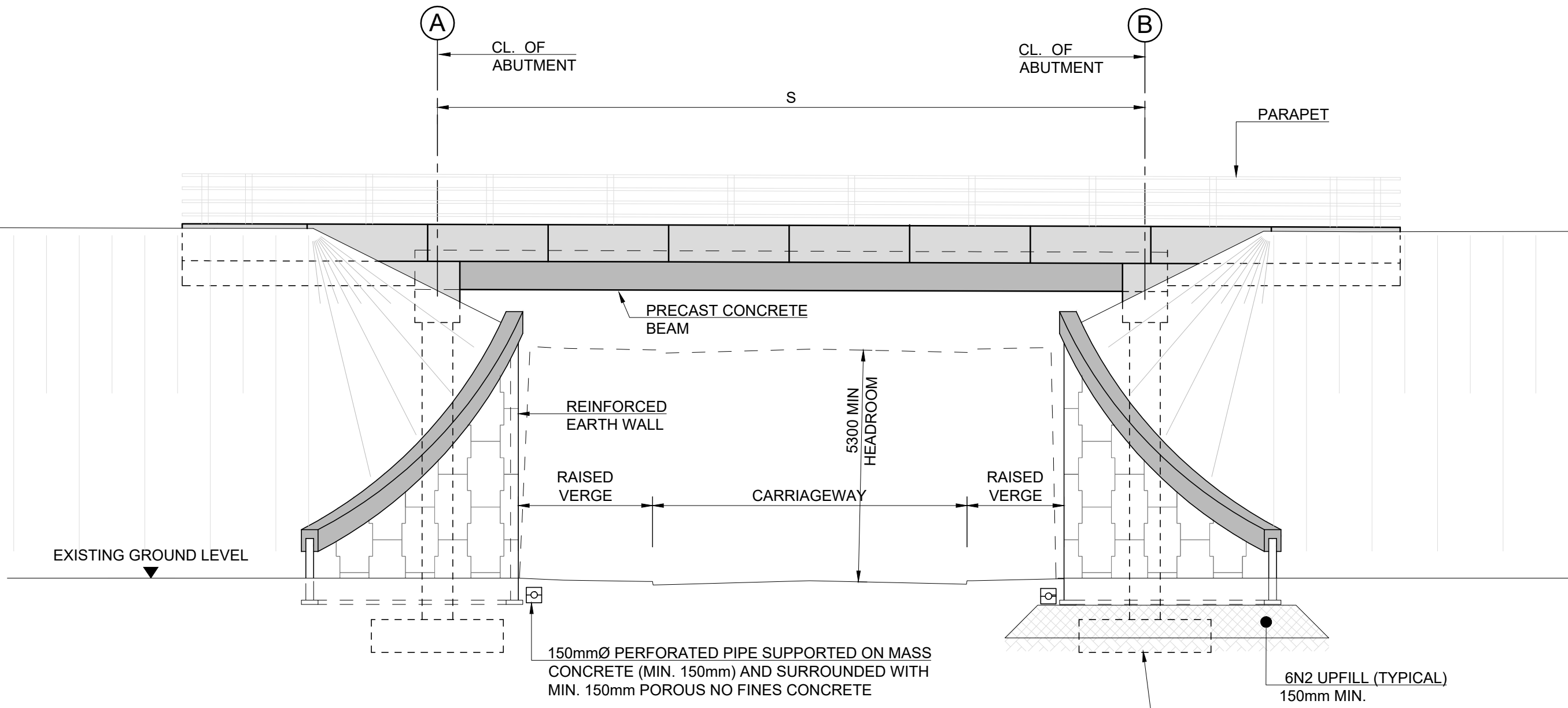


SECTION A-A
SCALE: 1:50

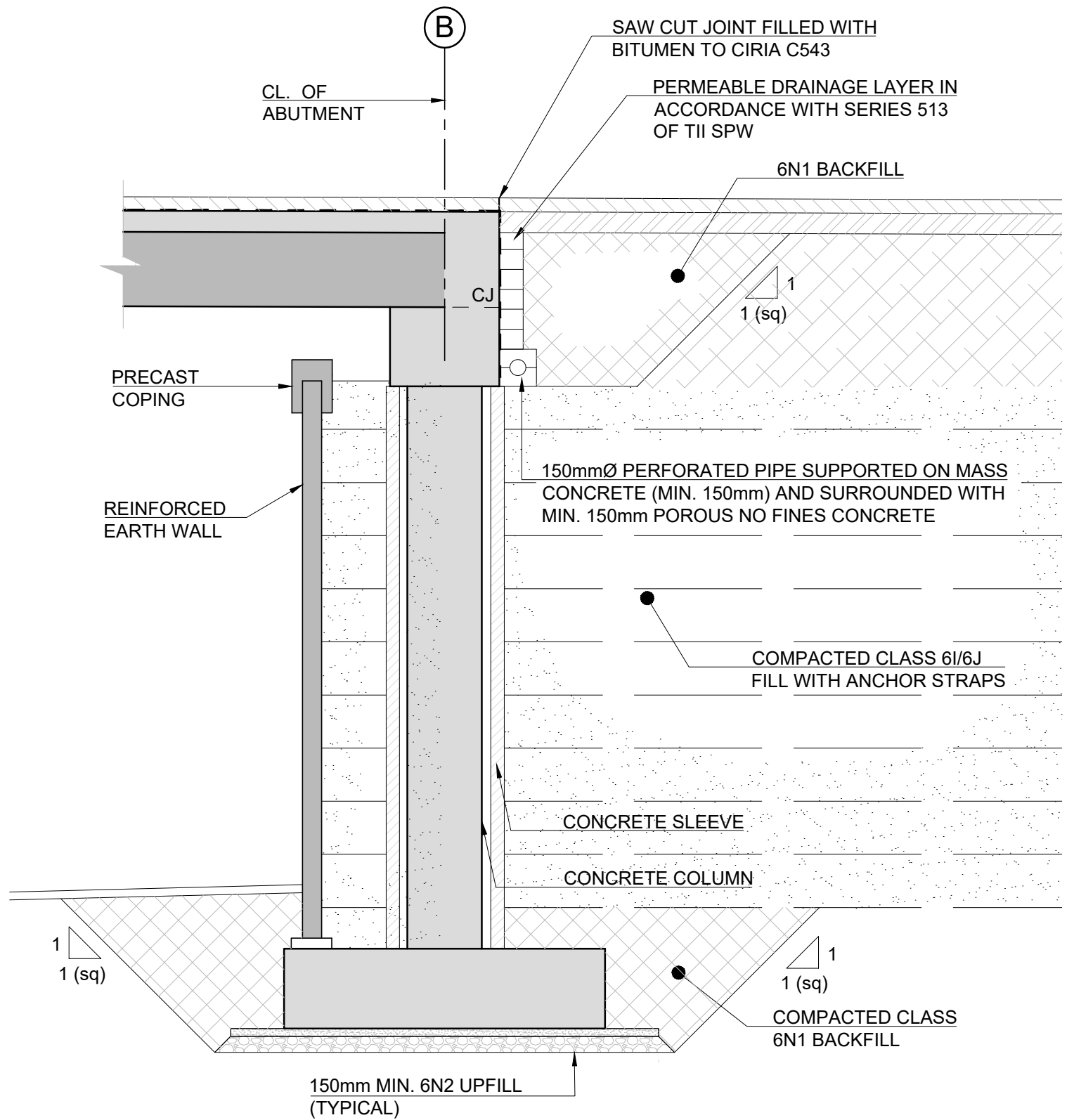
Reference	Name	Chainage	Span, S [m]	Width, W [m]	Structural Depth, D [m]	Bridge Skew Angle, θ_B (deg)	Road Skew Angle, θ_R (deg)
S07/02	N59 Link Road North Underbridge	07+570	27.0	23.8	2.05	6	6
S12/01	N84 Headford Road Underbridge	12+150	23.4	32.9	1.55	4	4
S13/02	N17 Tuam Road Underbridge	13+975	32.6	45.4	1.85	30	47
S15/02	Monivea Road R339 Underbridge	15+880	26.6	31.6	1.55	6	6

NOTES:

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- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.



SECTION B-B
SCALE 1:100



TYPICAL ABUMENT CROSS SECTION
SCALE 1:50

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Job Title
N6 Galway City Ring Road

Scale
AS SHOWN @ A1
Date:
November 2016

I4	30/06/2017	PD	PM	EMC
I3	20/04/2017	PD	PM	EMC
I2	11/11/2016	PD	PM	EMC
I1	04/07/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Standard Underbridges:
Type 2B

Drawing Status
For Information

Job No
233985
Drawing No
GCOB-1700-D-GEN-003
Issue
14



Reference	Name	Chainage	Span, S [m]	Width, W [m]	Structural Depth, D [m]	Bridge Skew Angle, θ_B (deg)	Road Skew Angle, θ_R (deg)
S08/02*	N59 Moycullen Road Underbridge	08+540	32.5	27.5	1.95	30	30

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Scale	AS SHOWN @ A1
Date:	November 2016

I4	30/06/2017	PD	PM	EMC
I3	20/04/2017	PD	PM	EMC
I2	11/11/2016	PD	PM	EMC
I1	04/07/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Job No	Drawing No	Issue
233985	GCOB-1700-D-GEN-004	I4

Standard Overbridges

- Drawings



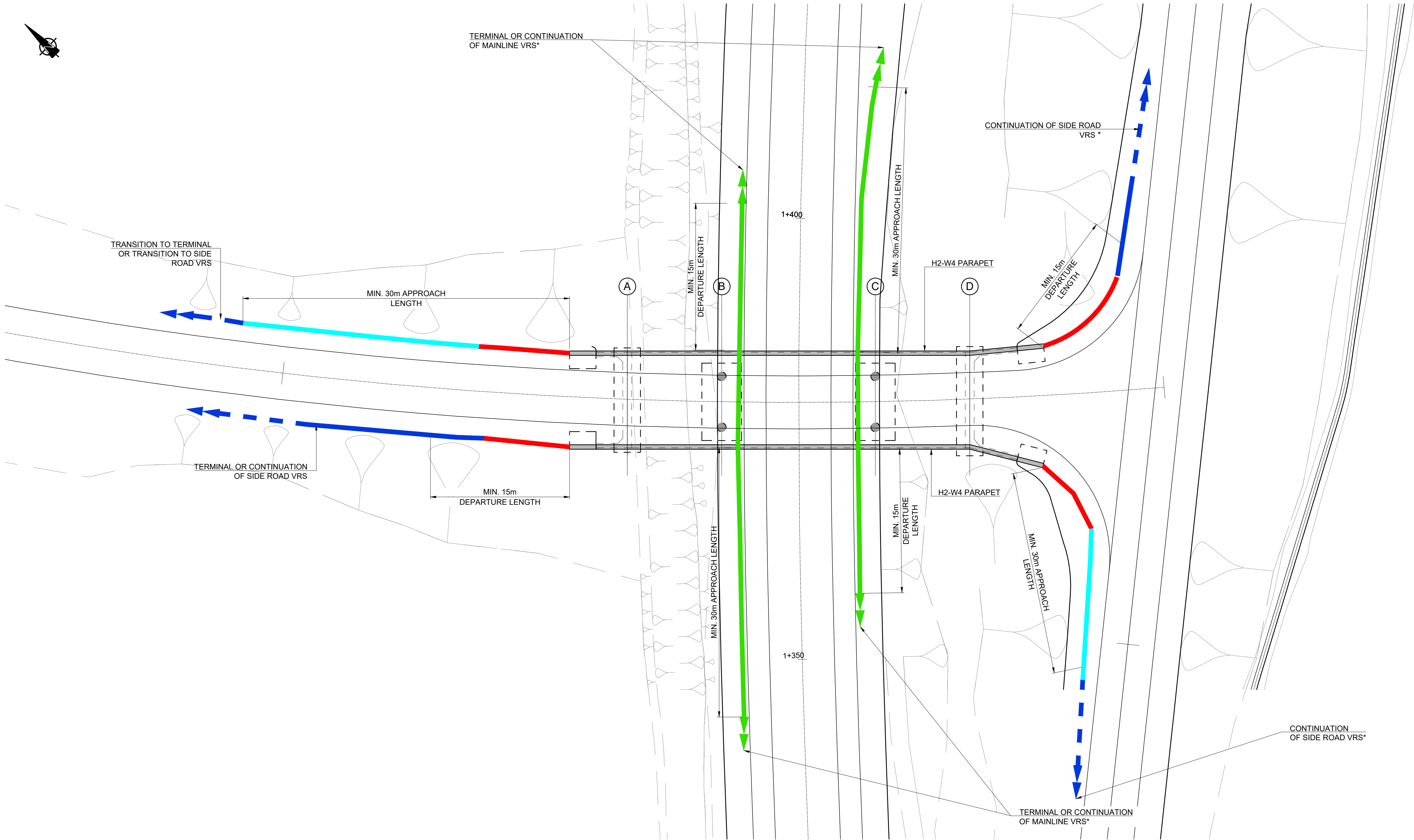
Job No 233985	Drawing No GCOB-1700-D-S01-01-001	Issue I1
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NOTES:

1. ALL DETAILS SHOWN ARE SUBJECT TO CONFIRMATION DURING THE DETAILED DESIGN AND SERIES 400 CERTIFICATION..

LEGEND:

- APPROVED TRANSITION FROM H2 PARAPET TO VRS
- SIDE ROAD VRS
- H2 VRS TO DN-REQ-03034
- MAINLINE BARRIER TO SERIES 400
- H2 - W4 PARAPET TO DN-STR-03011



PARAPET / SAFETY BARRIER LAYOUT
SCALE 1:250

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N6
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Job Title

N6 Galway City Ring Road

Scale AS SHOWN @ A1

Date: June 2017

I1	30/06/2017	MS	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

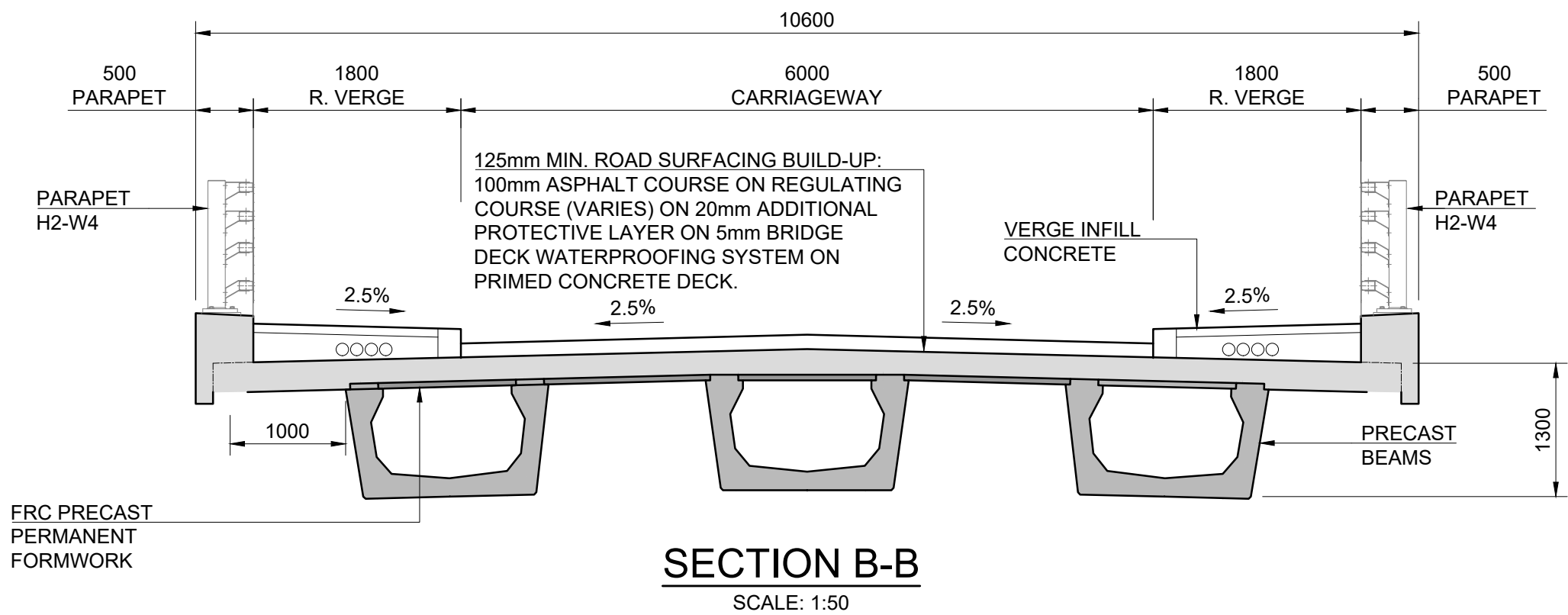
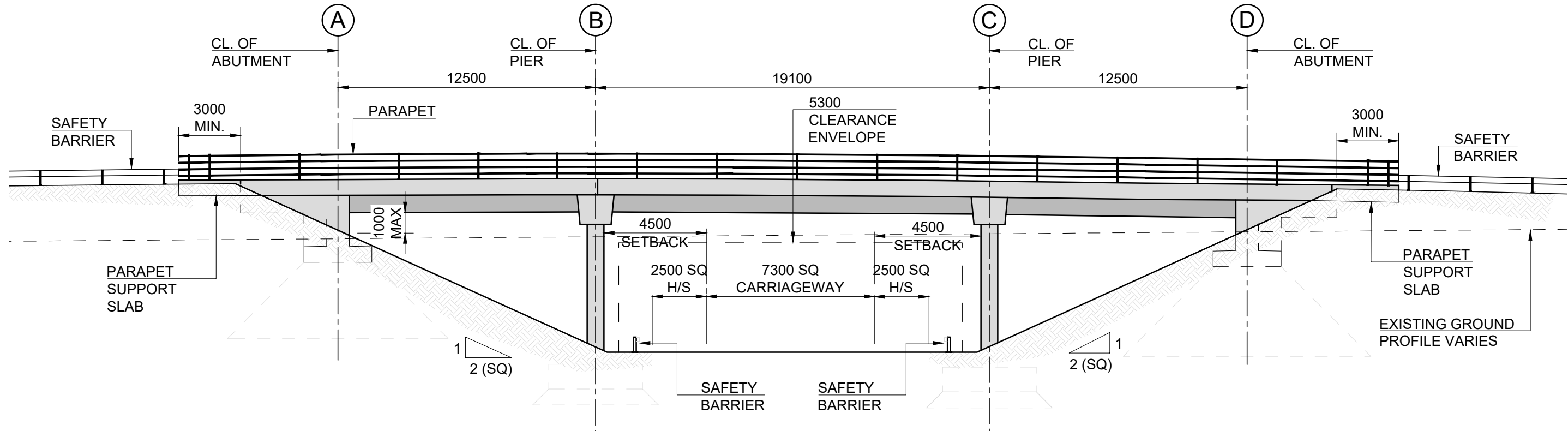
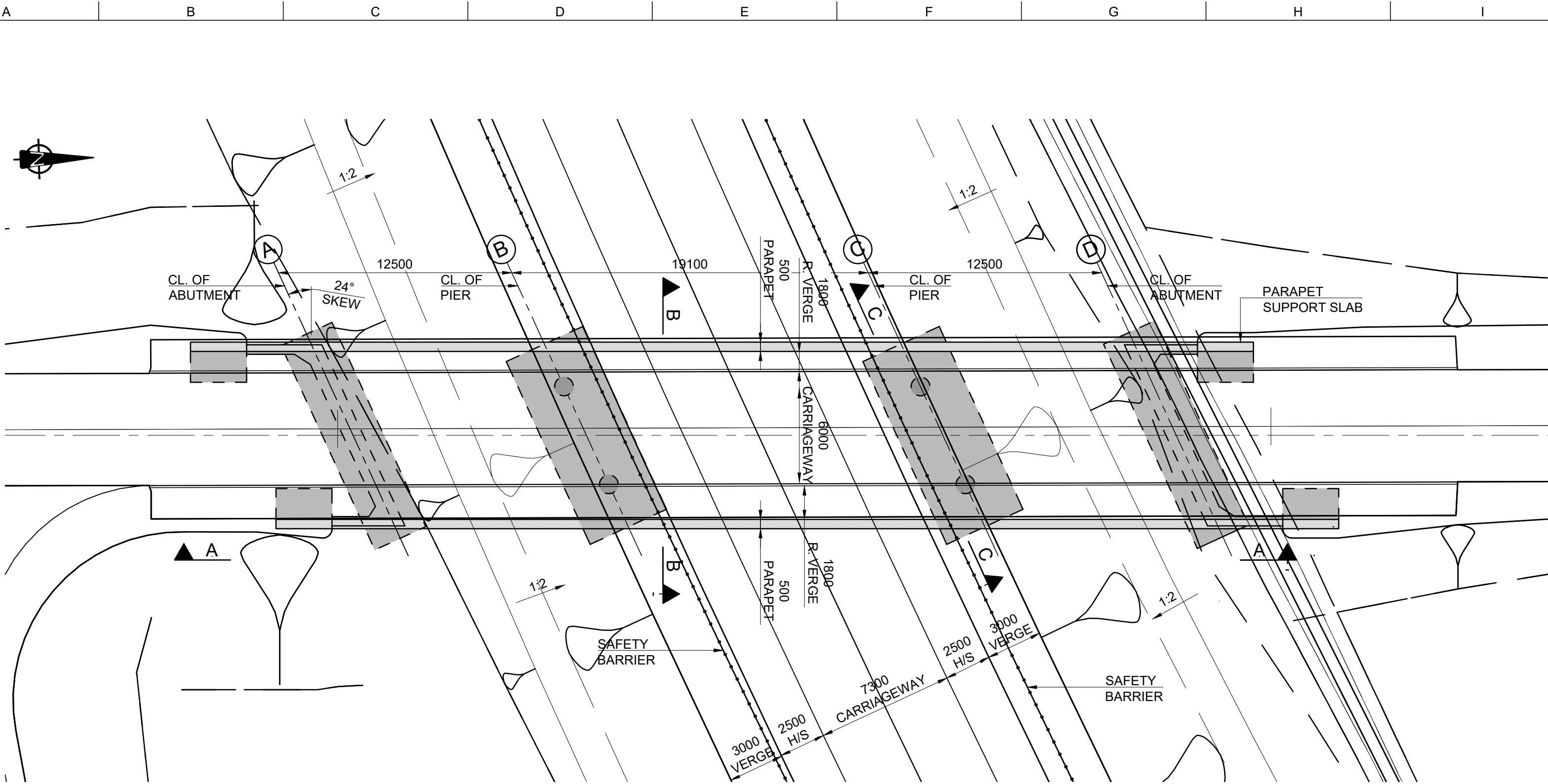
Standard Overbridge
Structure S01-01
Parapet / Safety Barrier Layout

Drawing Status

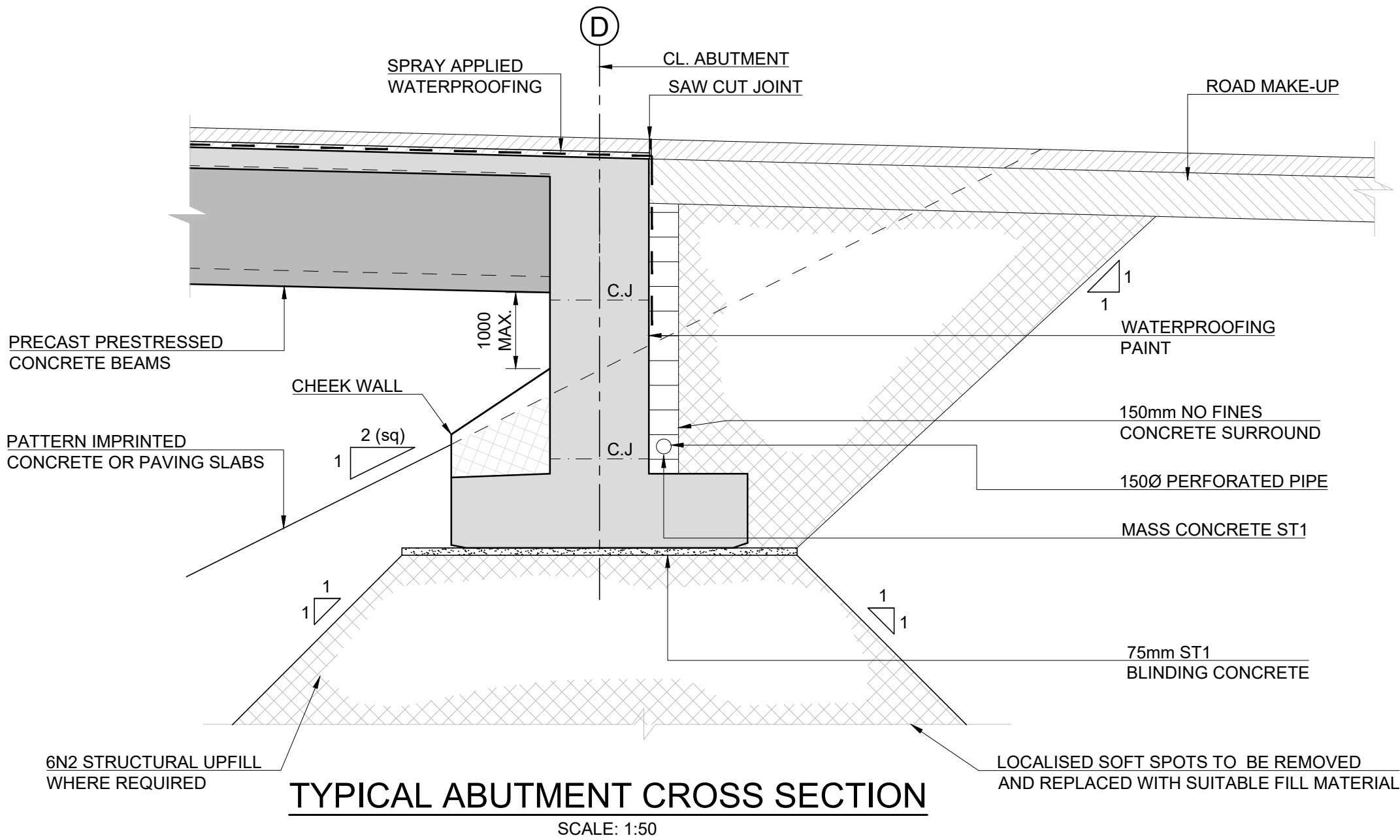
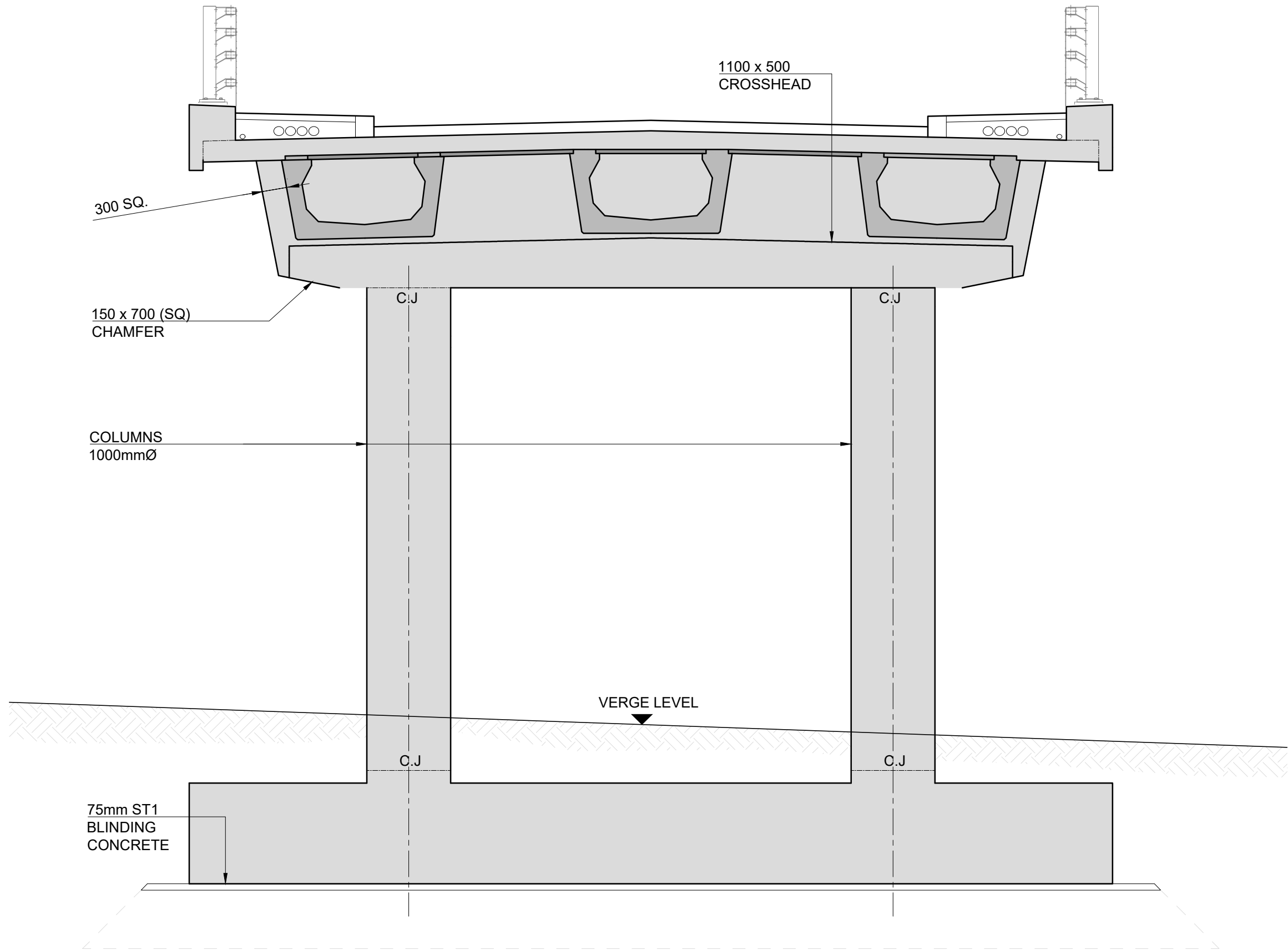
For Information

Job No	Drawing No	Issue
233985	GCOB-1700-D-S01-01-002	11

A1
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Job Title
N6 Galway City Ring Road

Scale
AS SHOWN @ A1

Date
October 2016

I2	30/06/2017	MS	PM	EMC
I1	26/10/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Standard Overbridge
Structure S03-01

Drawing Status

For Information

Job No
233985

Drawing No
GCOB-1700-D-S03-01-001

Issue
12

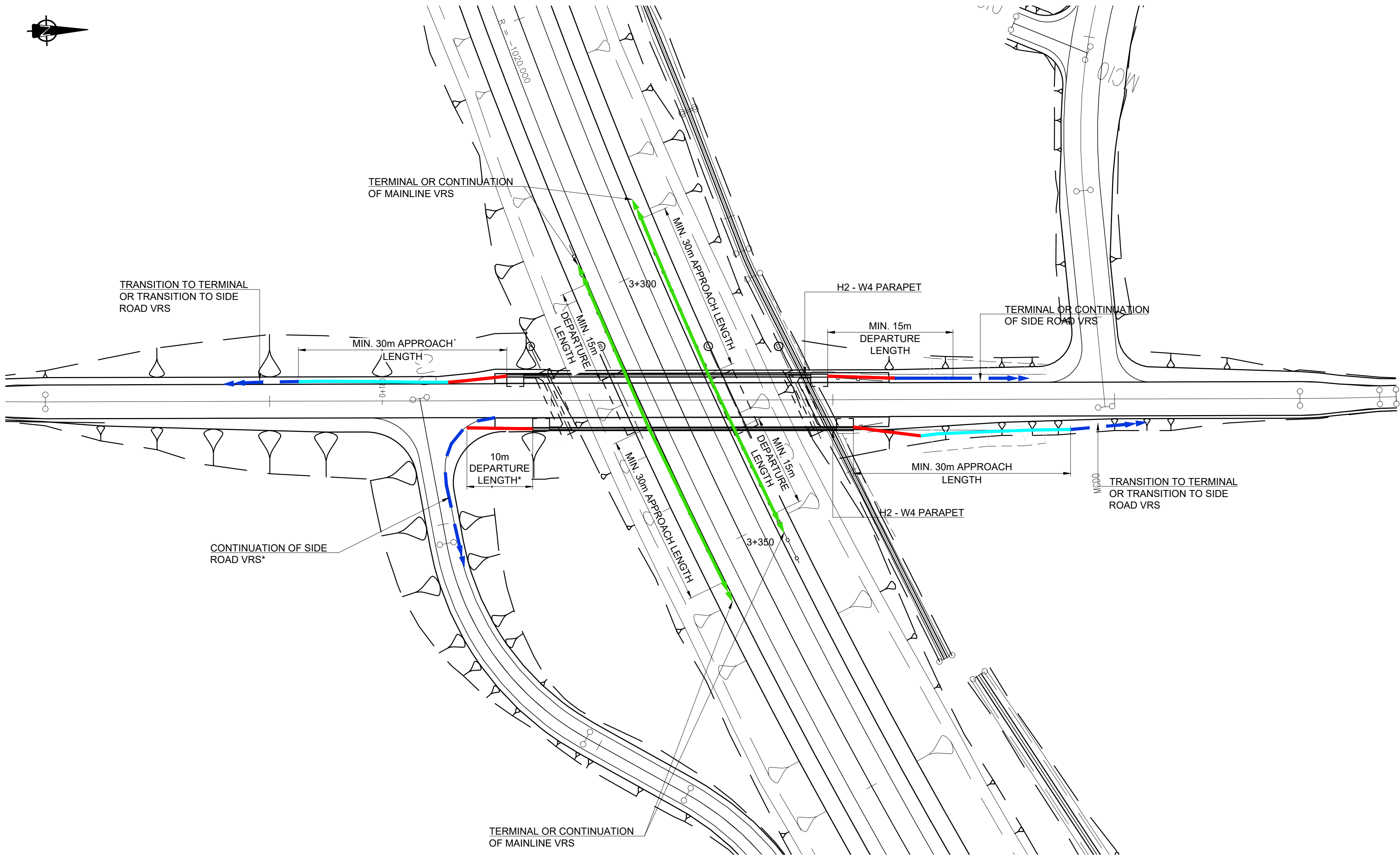
NOTES:

1. ALL DETAILS SHOWN ARE SUBJECT TO CONFIRMATION DURING THE DETAILED DESIGN AND SERIES 400 CERTIFICATION.

LEGEND:

- APPROVED TRANSITION FROM H2 PARAPET TO VRS
- SIDE ROAD VRS
- H2 VRS TO DN-REQ-03034
- MAINLINE BARRIER TO DN-REQ-03034
- H2-W4 PARAPET TO DN-STR-03011

SIDE ROAD & MAINLINE VRS DETAILS WILL BE CERTIFIED IN 400 SERIES.
* SUBJECT TO APPROVAL OF REALXATION.OR DEPARTURE



PARAPET / SAFETY BARRIER LAYOUT

SCALE: 1:500

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Job Title
N6 Galway City Transport Project

Scale
AS SHOWN @ A1

Date:
January 2017

I1	30/06/2017	MS	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Standard Overbridge
Structure S01-01

Drawing Status

For Information

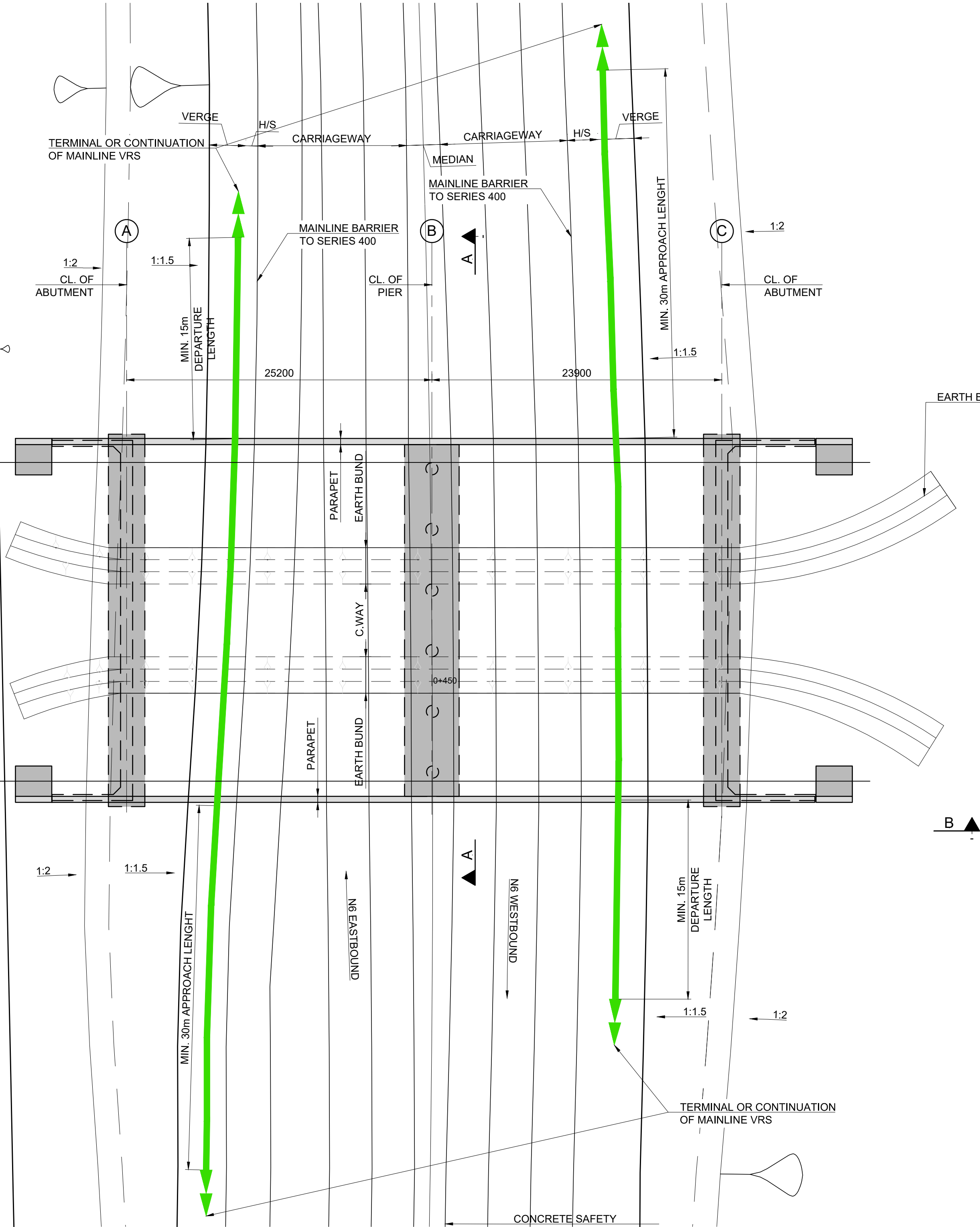
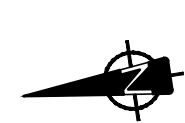
Job No	Drawing No	Issue
233985	GCOB-1700-D-S03-01-002	11

A1
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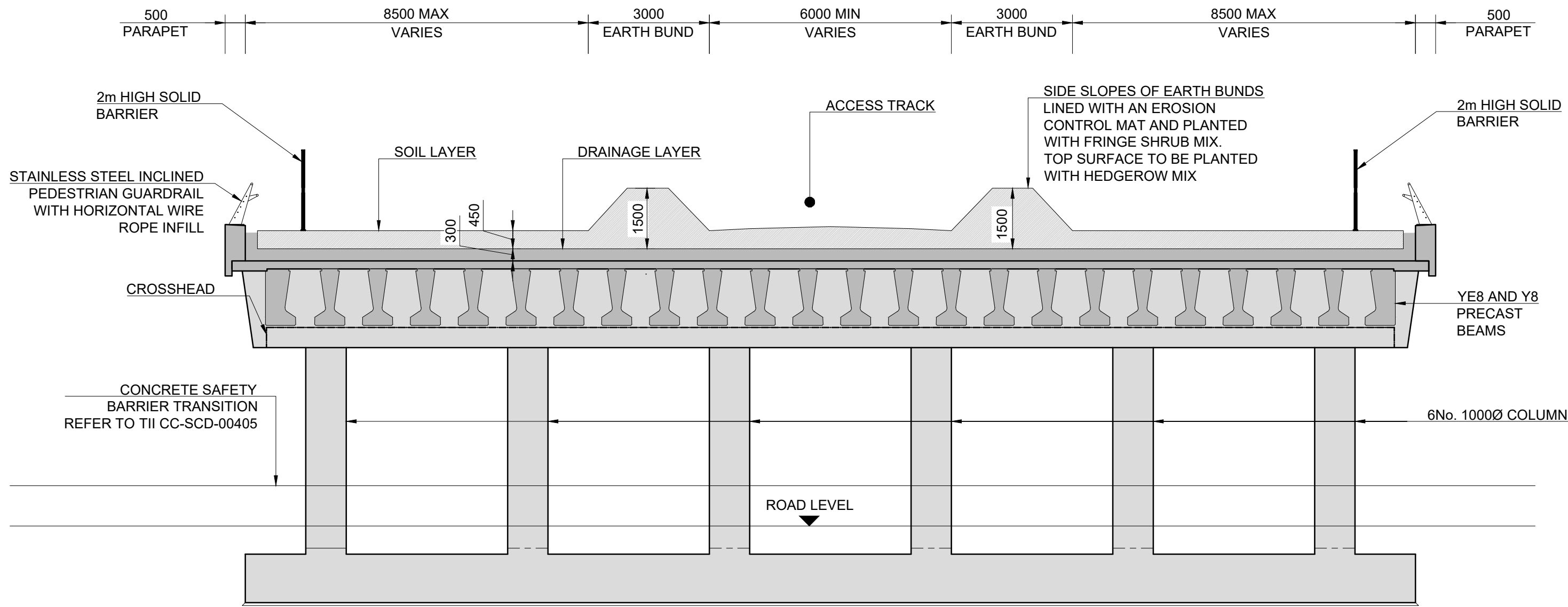
A B C D E F G H I J K L M N O P

DESIGN REPORT

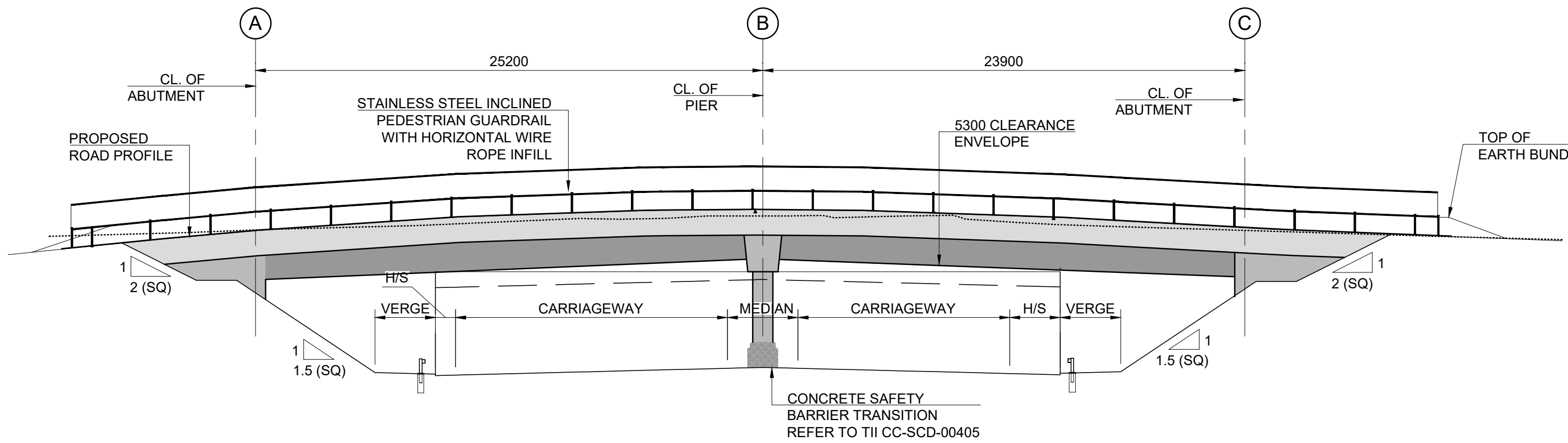
- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.



PLAN
SCALE 1:200



SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100

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Turasóireachta agus Spóirt



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Scale
AS SHOWN @ A1

Date:
October 2016

I2	30/06/2017	MS	PM	EMC
I1	10/10/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title
Standard Overbridge
Structure S12-02

Drawing Status

For Information

Job No	Drawing No	Issue
233985	GCOB-1700-D-S12-02-001	I2



Job No	Drawing No	Issue
233985	GCOB-1700-D-S13-01-001	I2

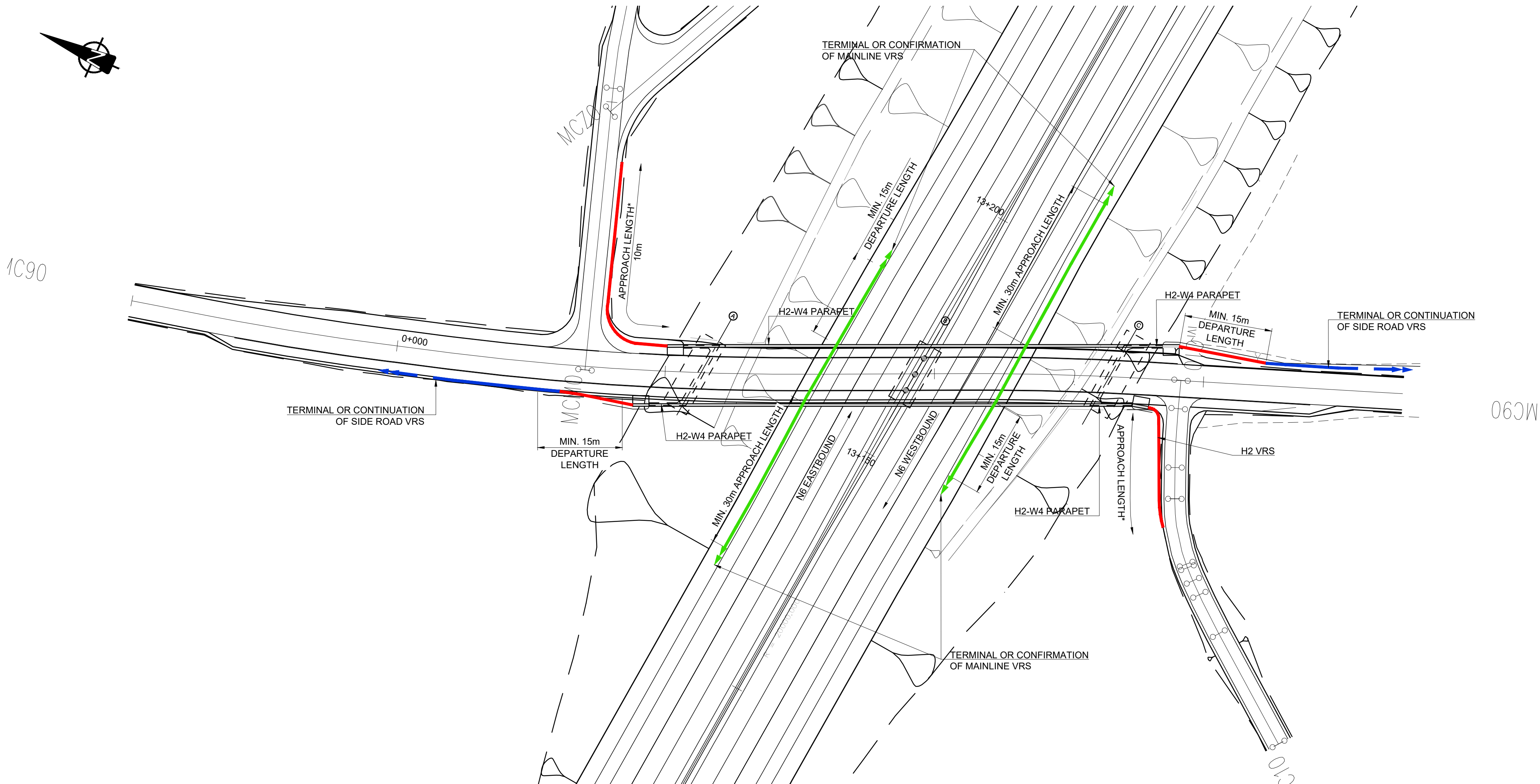
NOTES:

1. ALL DETAILS SHOWN ARE SUBJECT TO CONFIRMATION DURING THE DETAILED DESIGN AND SERIES 400 CERTIFICATION..

LEGEND:

- APPROVED TRANSITION FROM H2 PARAPET TO VRS
- SIDE ROAD VRS
- H2 VRS TO DN-REQ-03034
- MAINLINE BARRIER TO SERIES 400
- H2-W4 PARAPET TO DN-STR-03011

* SUBJECT TO RELAXATION OR DEPARTURE APPROVAL



PARAPET / SAFETY BARRIER LAYOUT
SCALE: 1:500

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Ballybrit, Galway, Ireland.

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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale AS SHOWN @ A1

Date: June 2016

I1	30/06/2017	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Standard Overbridge
Structure S13-01
Parapet / Safety Barrier Layout

Drawing Status

For Information

Job No	Drawing No	Issue
233985	GCOB-D-ST-S13-01-002	11



Job No	Drawing No	Issue
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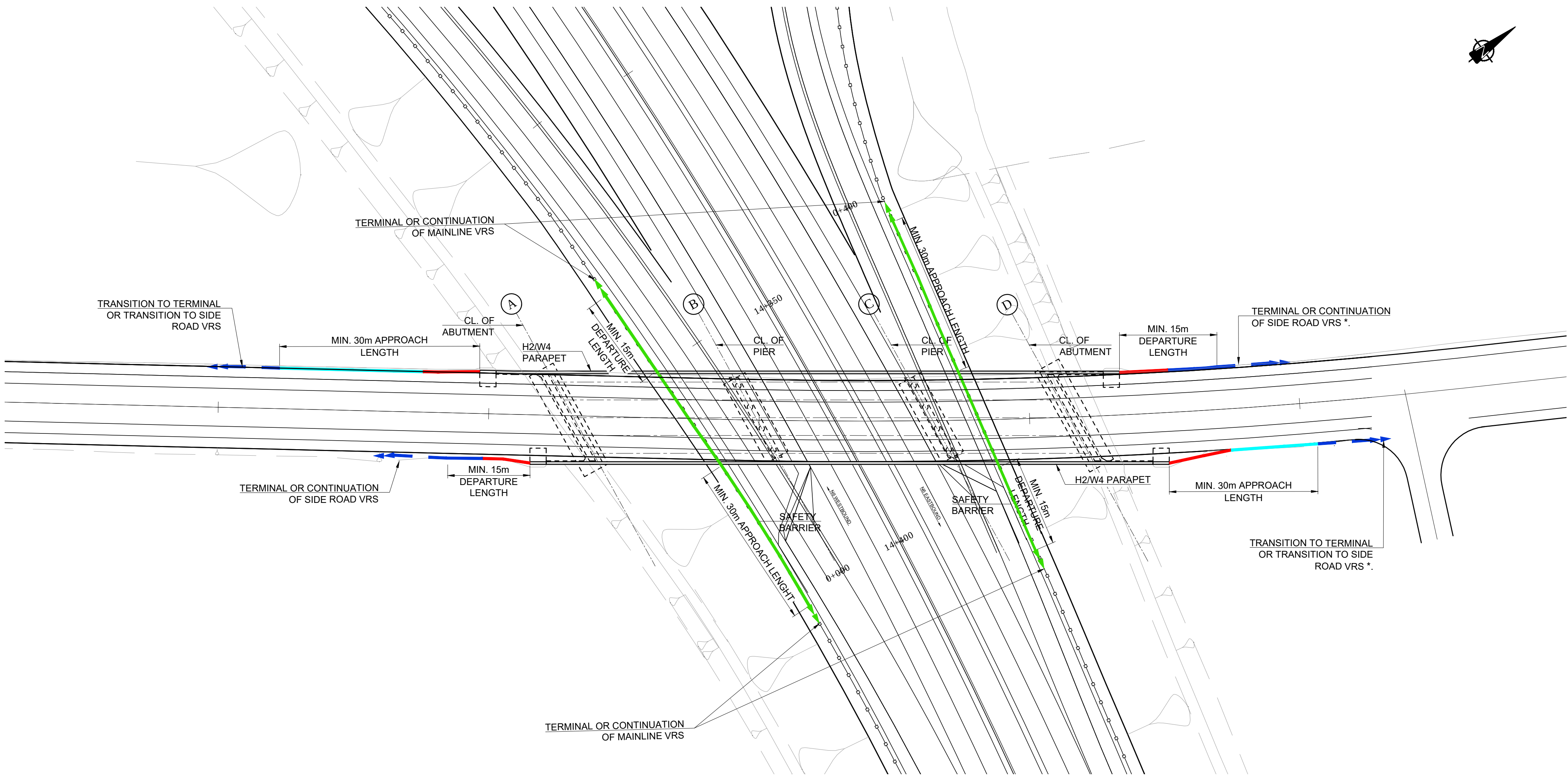
DESIGN REPORT

NOTES:

1. ALL DETAILS SHOWN ARE SUBJECT TO CONFIRMATION DURING THE DETAILED DESIGN AND SERIES 400 CERTIFICATION..

LEGEND:

- APPROVED TRANSITION FROM H2 PARAPET TO VRS
- SIDE ROAD VRS
- H2 VRS TO DN-REQ-03034
- MAINLINE BARRIER TO SERIES 400
- H2-W4 PARAPET TO DN-STR-03011



PARAPET / SAFETY BARRIER LAYOUT

SCALE: 1:500

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An Roinn Iompair
Turasoireachta agus Spóirt
Department Transport, Tourism and Sport



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Job Title

N6 Galway City Ring Road

Scale

AS SHOWN @ A1

Date:

June 2017

Drawing Title

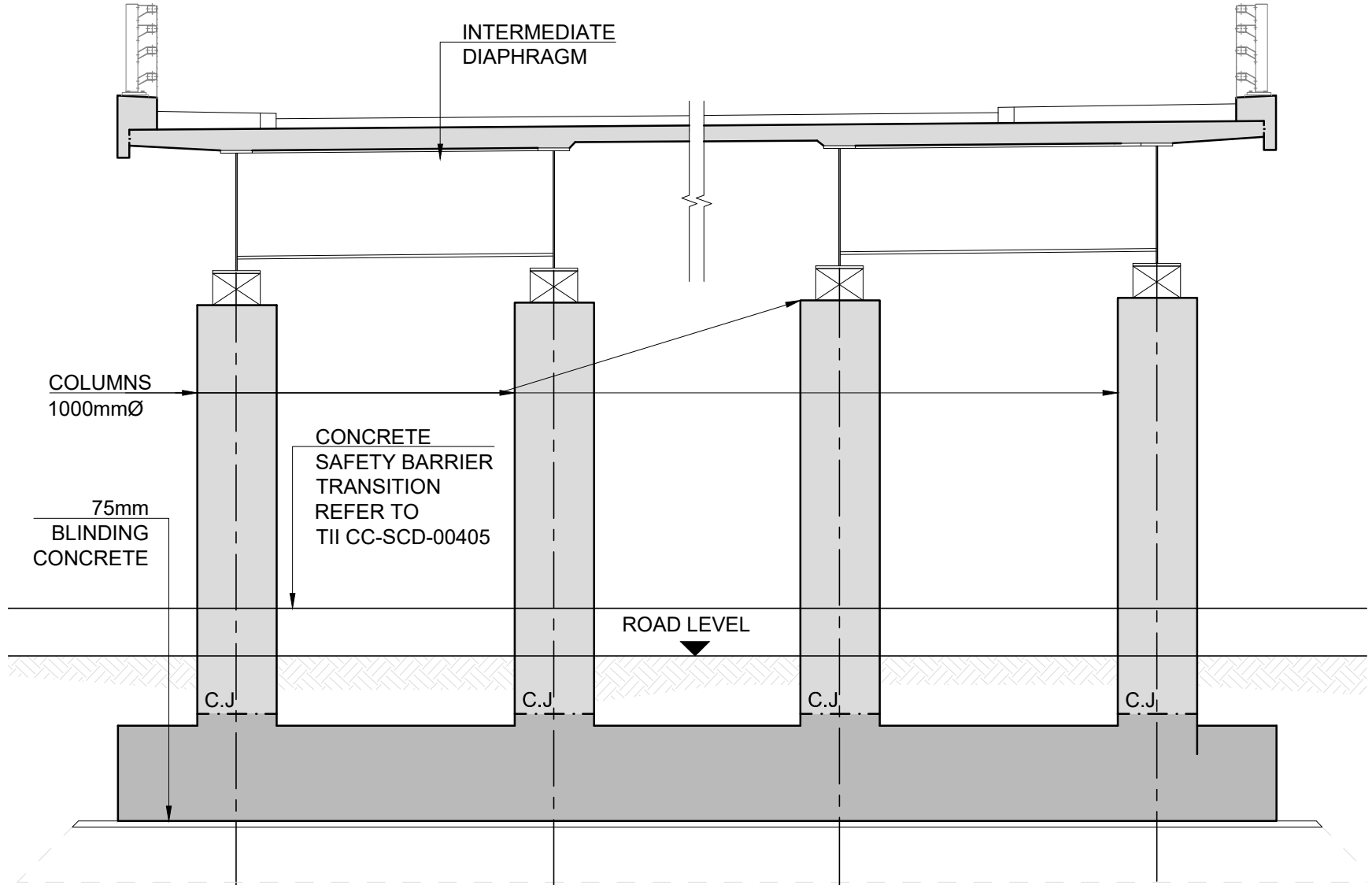
Standard Overbridge
Structure S14-01

Drawing Status

For Information

Job No	Drawing No	Issue
233985	GCOB-1700-D-S14-01-002	11

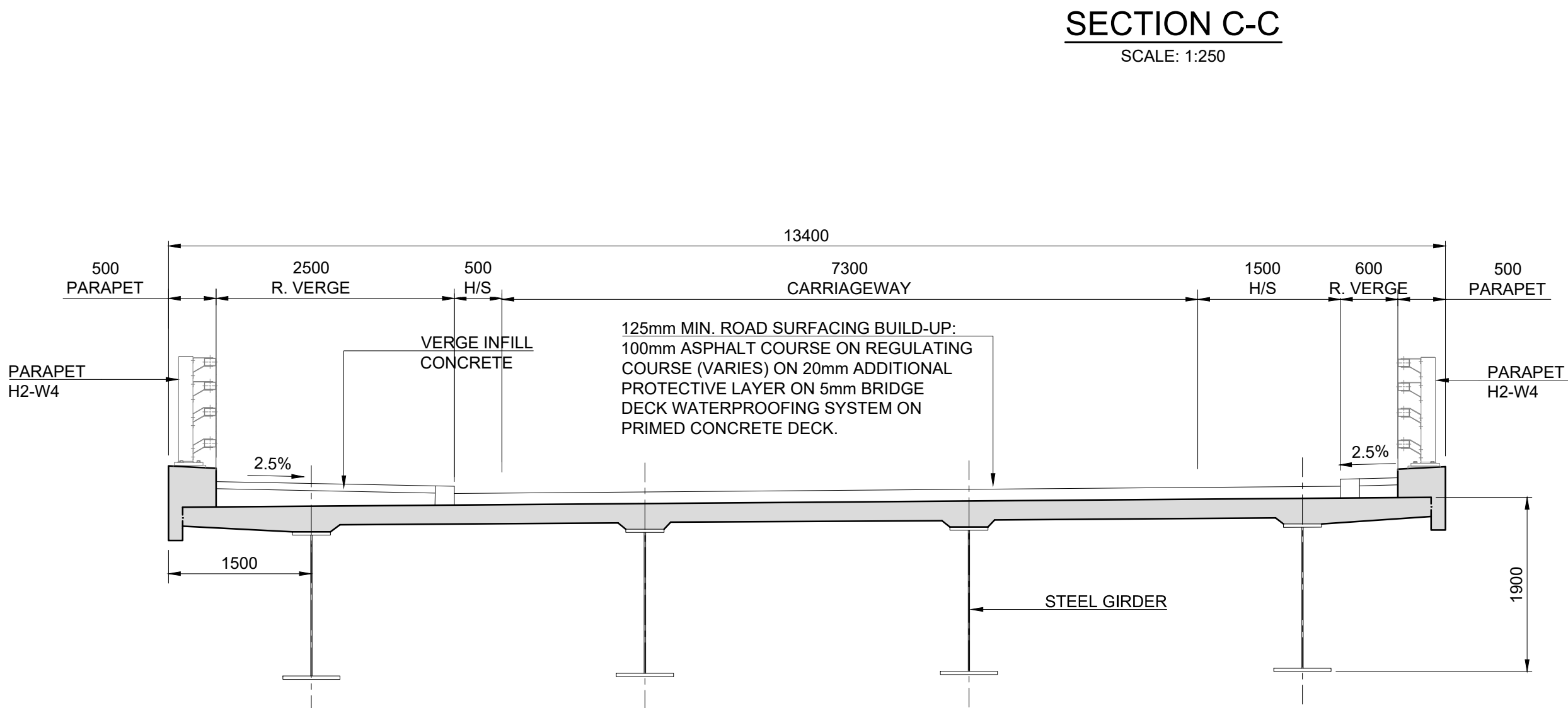
I1	30/06/2017	PD	PM	EMC
Issue	Date	By	Chkd	Appd



SECTION B-B

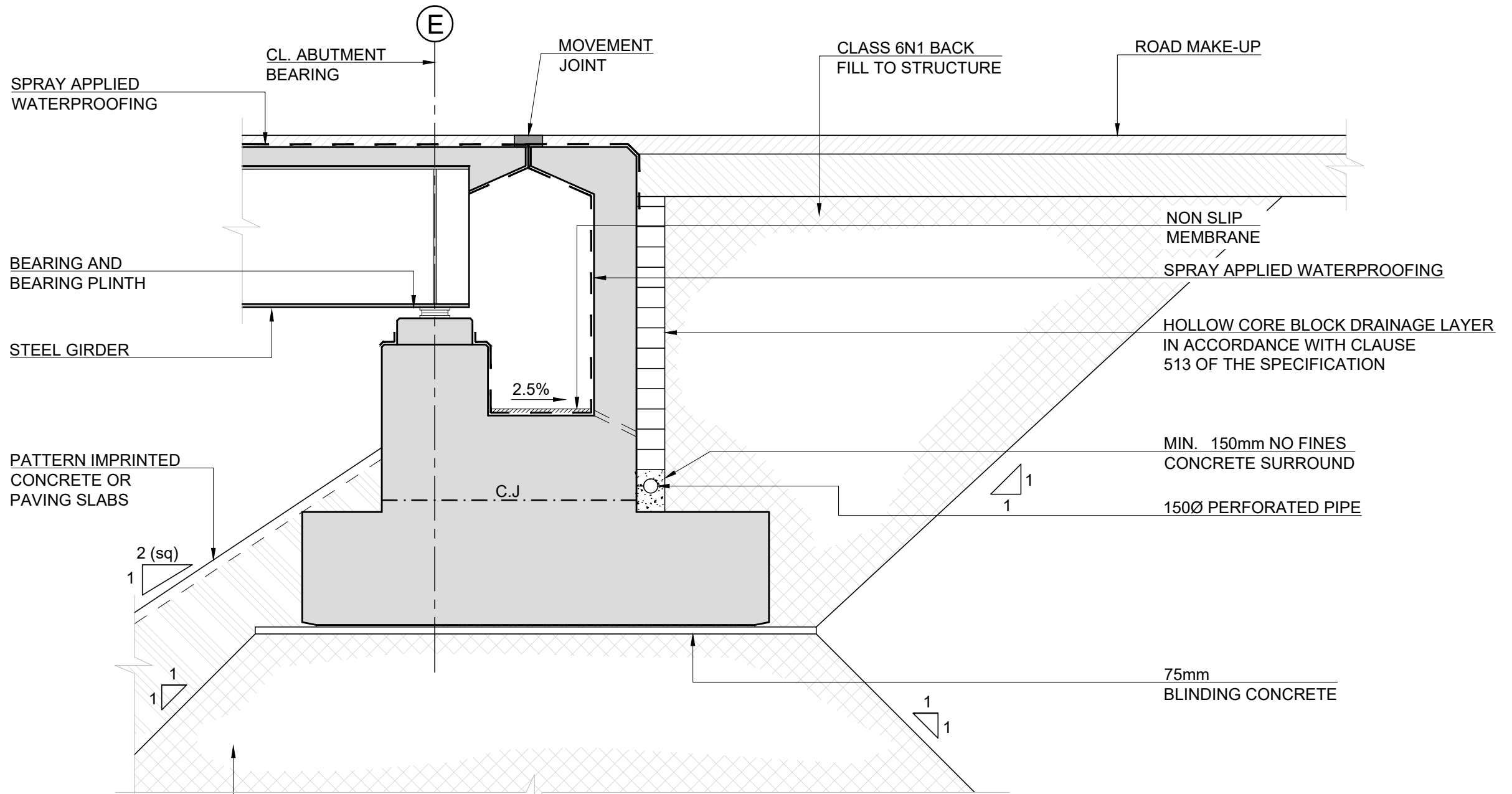
SCALE: 1:250

SCALE: 1:75



SECTION A-A

SCALE: 1:50



TYPICAL ABUTMENT CROSS SECTION

SCALE: 1:50

Job No	Drawing No	Issue
233985	GCOB-1700-D-S16-01-001	12

NOTES:
1. ALL DETAILS SHOWN ARE SUBJECT TO CONFIRMATION DURING THE DETAILED DESIGN AND SERIES 400 CERTIFICATION.

LEGEND:

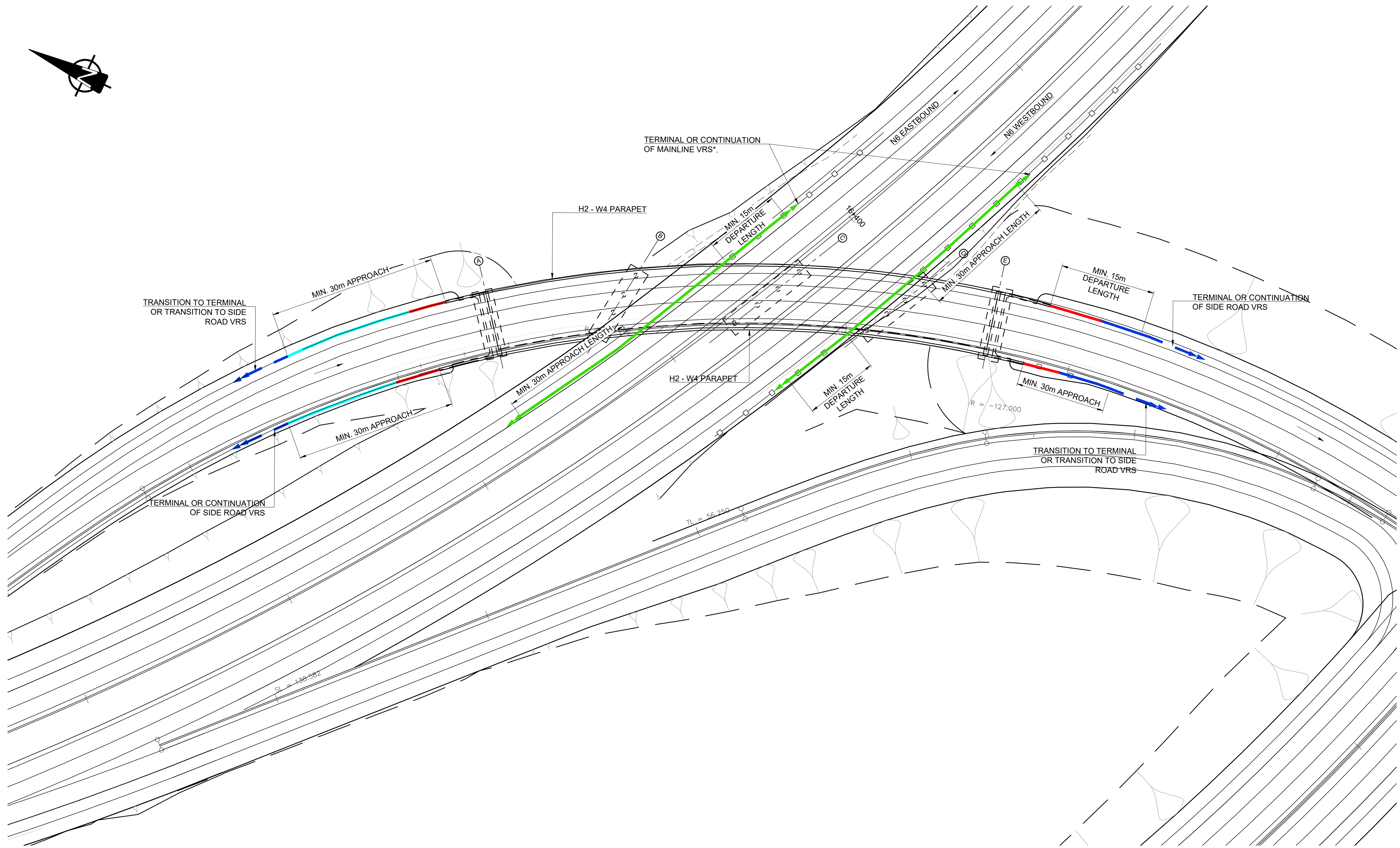
APPROVED TRANSITION FROM H2 PARAPET TO VRS

SIDE ROAD VRS *

H2 VRS

MAINLINE BARRIER TO SERIES 400

H2-W4 PARAPET



PARAPET / SAFETY BARRIER LAYOUT
SCALE: 1:500

Clients

Comhairle Chontae na Gaillimhe
Galway County Council

N6
Galway City Transport Project

An Roinn Iompair
Turasóireachta agus Spóirt
Department Transport, Tourism and Sport

TII
Bonnagar Iompair Éireann
Transport Infrastructure Ireland

Consultant

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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

AS SHOWN @ A1

Date:

June 2017

I1	30/06/2017	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Standard Overbridge
Structure S16-01
Parapet / Safety Barrier Layout

Drawing Status

For Information

Job No

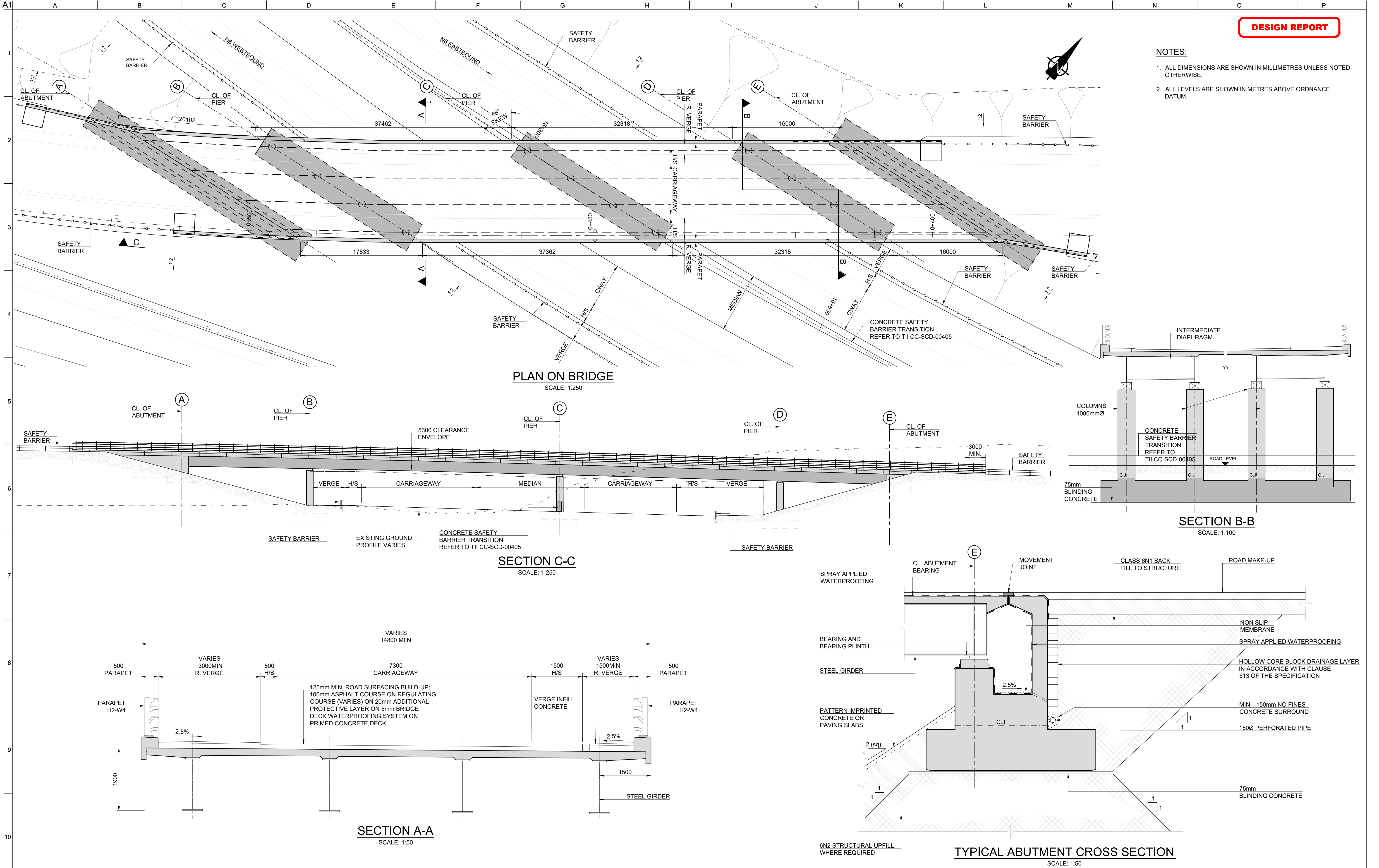
233985

Drawing No

GCOB-D-ST-S16-01-002

Issue

11



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Clients

Comhairle Chontae na Gaillimhe

Galway County Council

AN6

Galway City Transport Project

An Roinn Iompair

Turasóireachta agus Spóirt

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Job Title

N6 Galway City Ring Road

Scale

AS SHOWN @ A1

Date:

October 2016

I2	26/06/2017	MS	PM	EMC
I1	26/10/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Standard Overbridge
Structure S16-02

Drawing Status

For Information

Job No

233985

Drawing No

GCOB-1700-D-S16-02-001

Issue

12

Do not scale

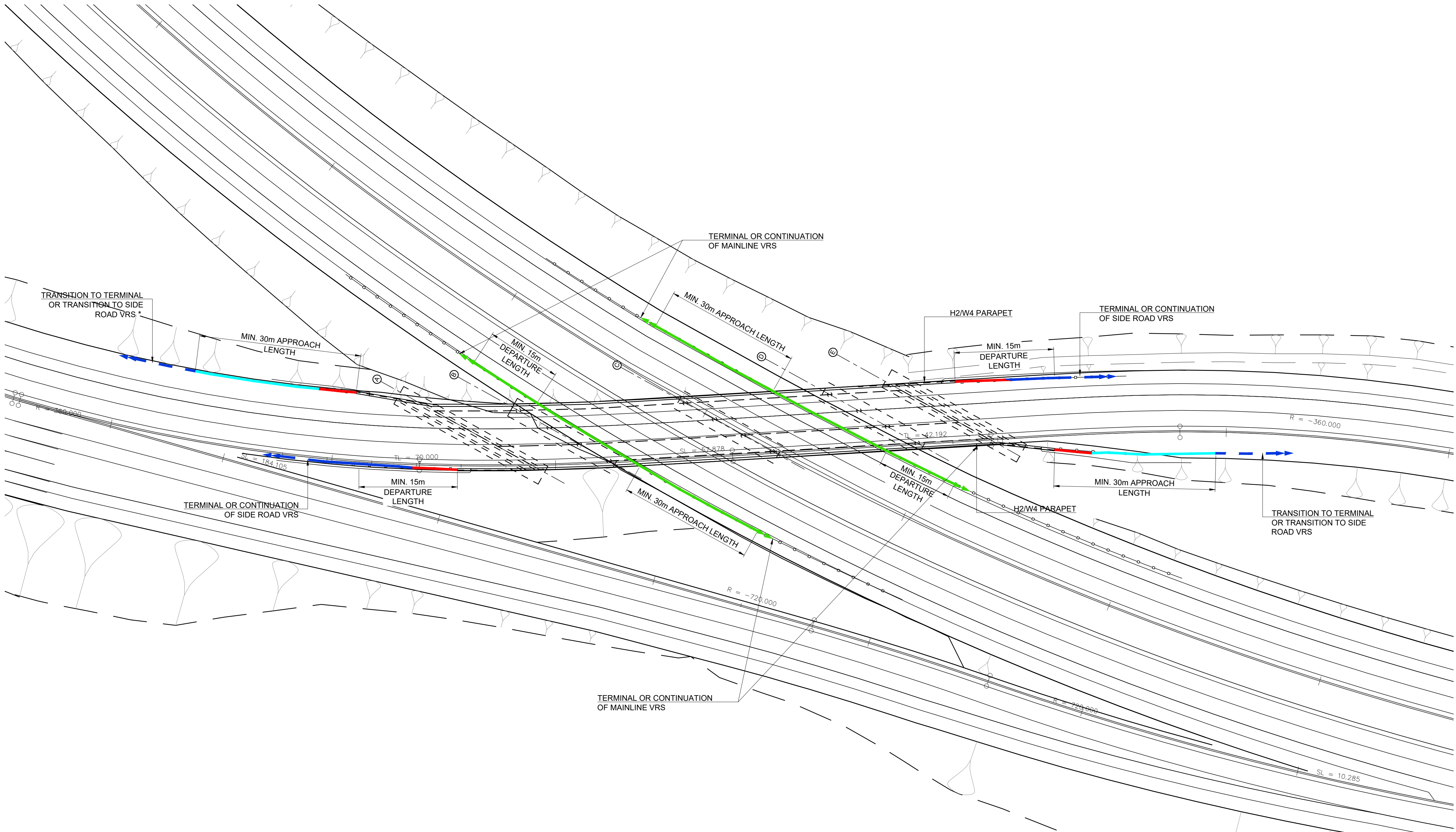
© Arup

NOTES:

1. ALL DETAILS SHOWN ARE SUBJECT TO CONFIRMATION DURING THE DETAILED DESIGN AND SERIES 400 CERTIFICATION.

LEGEND:

- APPROVED TRANSITION FROM H2 PARAPET TO VRS
- SIDE ROAD VRS
- H2 VRS
- MAINLINE BARRIER TO SERIES 400
- H2-W4 PARAPET



PARAPET / SAFETY BARRIER LAYOUT

SCALE: 1:500

San áireamh tá sonraíocht Shuirbhíreacht Ordanáis Éireann arna atáirgeadh faoi Cheadúnas OSI Uimh. 2010/17CCMA/Comhairle Contae na Gaillimhe. Sáratonn atáirgeadh neamhúdaraithe cóipeacht Shuirbhíreacht Ordanáis Éireann agus Bialas na hÉireann. © Suirbhíreacht Ordanáis Éireann, 2010.

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Clients



Comhairle Chontae na Gaillimhe
Galway County Council



An Roinn Iompair
Turasóireachta agus Spóirt
Department of Transport, Tourism and Sport



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Job Title

N6 Galway City Ring Road

Scale

AS SHOWN @ A1

Date:

June 2017

I1	30/06/2017	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

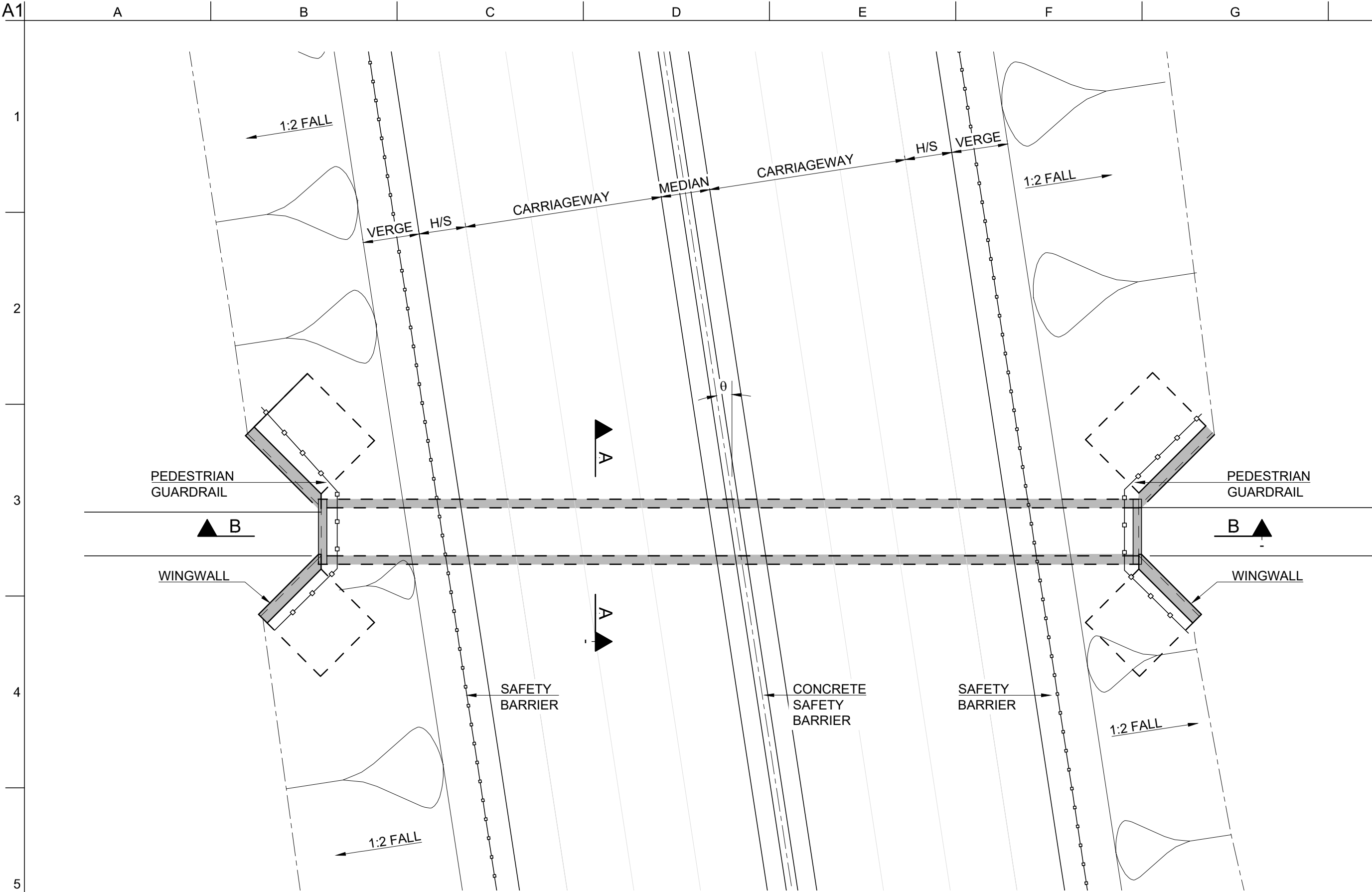
Standard Overbridge
Structure S16-02
Parapet / Safety Barrier Layout

Drawing Status

For Information

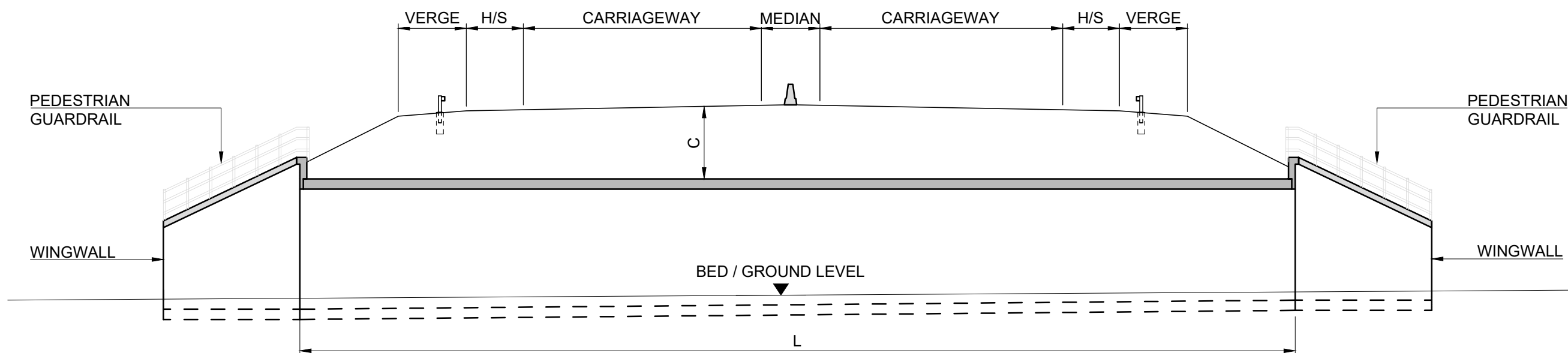
Job No	Drawing No	Issue
233985	GCOB-D-ST-S16-02-002	11

Mammal Underpass & Culverts - Drawings



PLAN ON STRUCTURE

SCALE 1:200



SECTION B-B

SCALE 1:200

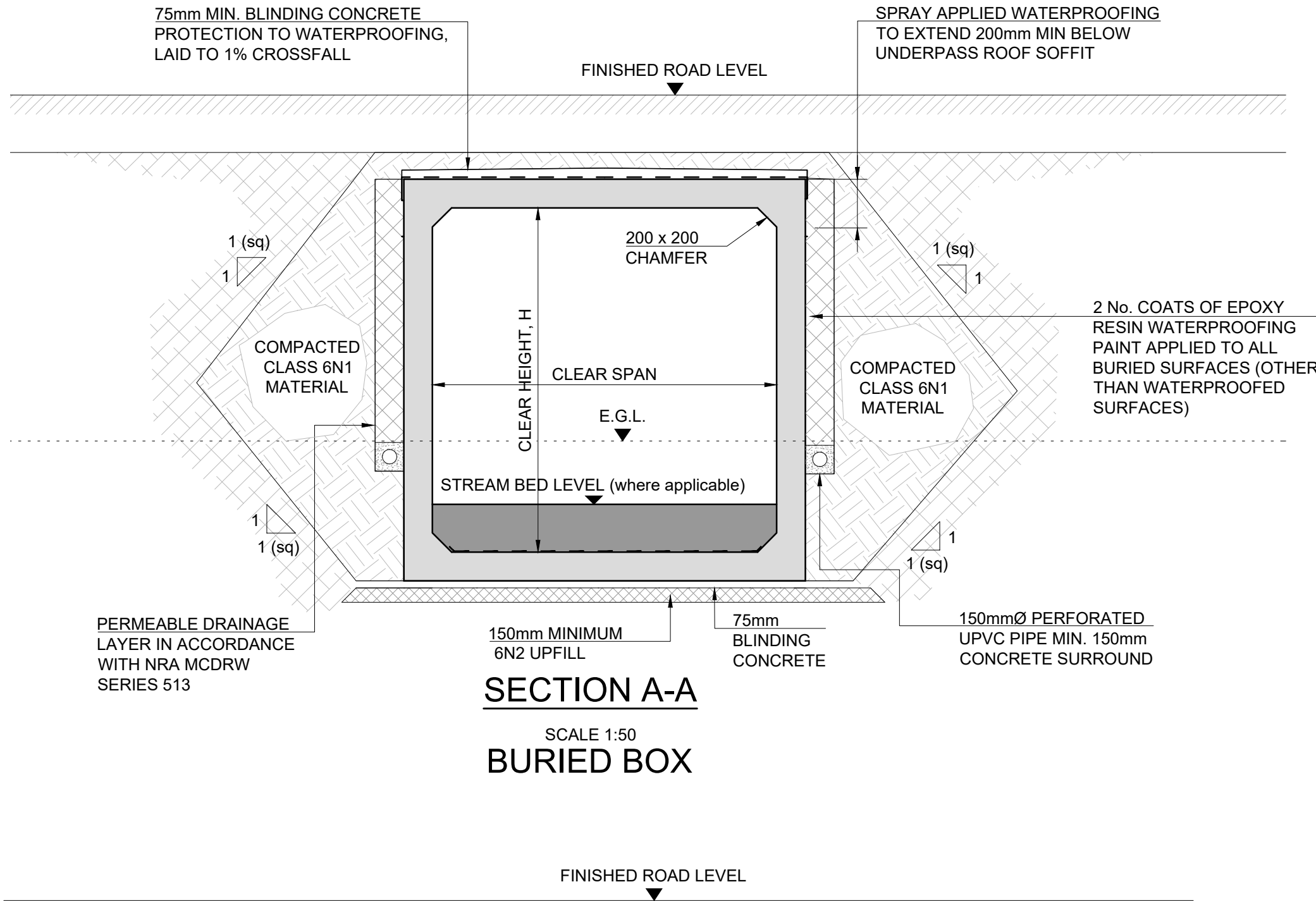
Reference	Name	Chainage	Structure Type	Clear Span, S [m]	Length, L [m]	Structural Depth, SD [m]	Clear Height, H [m]	Approximate cover, C (m)	Skew Angle, θ (deg)
C00/01	Culvert C00/01	00+670	Buried RC box	2.5	95.0	0.25	1.35	2.2	65
C02/01a	Culvert C02/01a - Tusky Stream	02+800	Buried RC box	2.1	38.0	0.25	1.80	2.6	16
C02/01b	Culvert C02/01b - Tusky Stream	02+850	Buried RC box	2.5	78.0	0.25	2.50	2.7	30
C03/01	Culvert C03/01	03+070	Buried RC box	2.5	48.0	0.25	1.20	0.6	4
C03/04	Culvert C03/04	03+965	Buried RC box	2.5	55.0	0.25	1.20	2.9	19
C03/03	Culvert C03/03	03+945	Buried RC box	2.5	52.0	0.25	1.20	3.1	19
C04/01	Culvert C04/01 - Beama Stream	04+120	Buried RC box	5.0	35.0	0.35	2.50	0.9	15
C04/02	Culvert C04/02	04+915	Buried RC box	3.1	82.0	0.25	2.50	1.7	59
C06/00	Culvert C06/00	06+450	Buried RC box	2.5	64.0	0.25	2.50	4.2	31
C06/01	Culvert C06/01	06+850	Buried RC box	2.5	64.0	0.25	2.50	3.6	53
C07/00	Culvert C07/00	07+100	Buried RC box	2.5	59.0	0.25	2.00	1.6	11
C07/02a	Culvert C07/02a	07+225	Buried RC arch	2.5	101.0	0.25	2.50	7.7	0
C08/01a	Culvert C08/01a	08+450	Buried RC box	2.5	52.0	0.25	2.50	4.3	0
C08/02	Culvert C08/02	08+650	Buried RC box	2.5	37.0	0.25	2.50	1.9	0
C08/04	Culvert C08/04	08+580	Buried RC box	2.5	46.0	0.25	2.50	4.6	0
C08/05	Culvert C08/05	08+620	Buried RC box	2.5	42.0	0.25	2.50	2.7	0
C09/06	Culvert C09/06	09+790	Buried RC arch	2.5	80.0	0.25	2.50	10.9	0
C09/07	Culvert C09/07	09+920	Buried RC arch	2.5	70.0	0.25	2.50	14.2	0
C12/02	Culvert C12/02	12+375	Buried RC arch	2.5	117.0	0.25	2.50	12.6	0
C12/03	Culvert C12/03	12+410	Buried RC arch	2.5	108.0	0.25	2.50	10.5	0
C12/04	Culvert C12/04	12+435	Buried RC arch	2.5	96.0	0.25	2.50	8.8	0
C13/01	Culvert C13/01	12+980	Buried RC box	2.5	57.0	0.25	1.50	3.9	0

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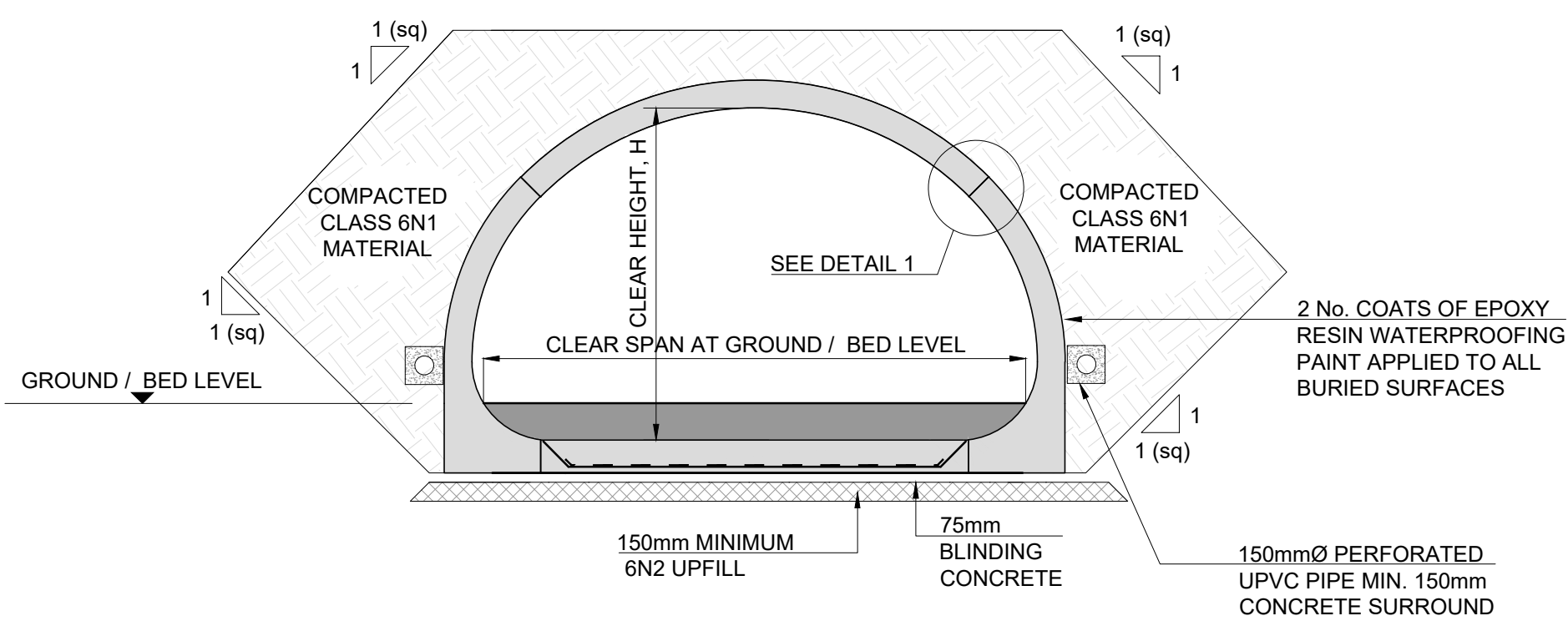
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SECTION A-A

SCALE 1:50

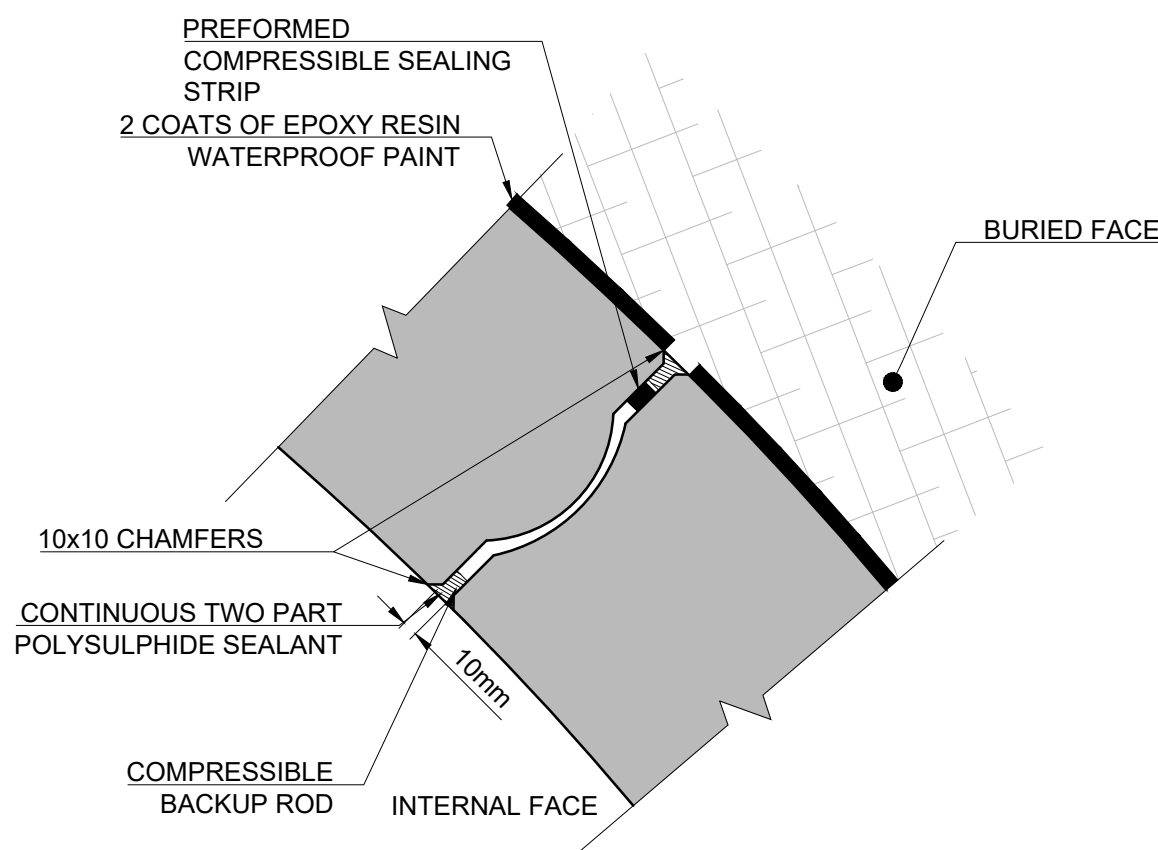
BURIED BOX



SECTION A-A

SCALE 1:50

BURIED ARCH



DETAIL 1

SCALE 1:5

NOTES:

- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

DESIGN REPORT

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www.arup.ie

Job Title

N6 Galway City Ring Road

Scale

AS SHOWN @ A1

Date:

July 2016

I3	02/08/2017	LM	PM	EMC
I2	30/06/2017	LM	PM	EMC
I1	11/07/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd

Drawing Title

Culverts & Underpasses
Buried Box and Arch Structures

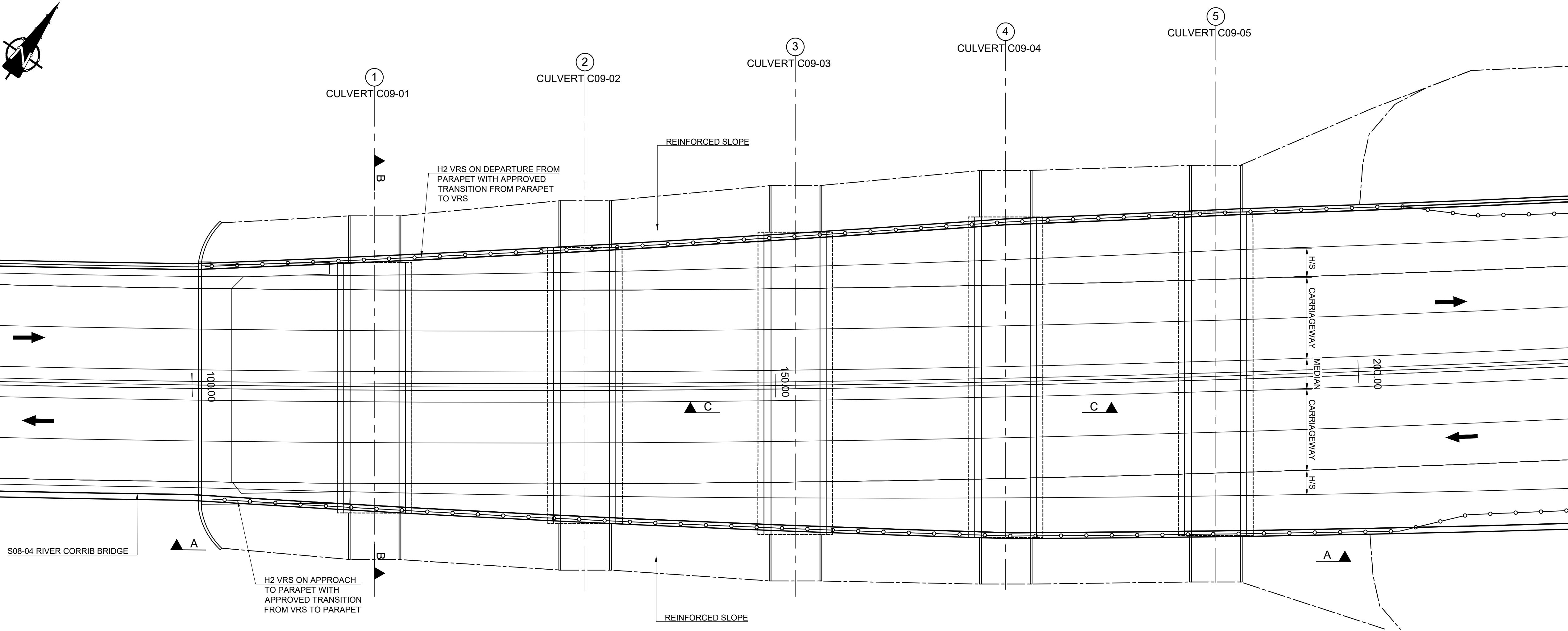
Drawing Status

For Information

Job No	Drawing No	Issue
233985	GCOB-1700-D-GEN-011	I3

A1
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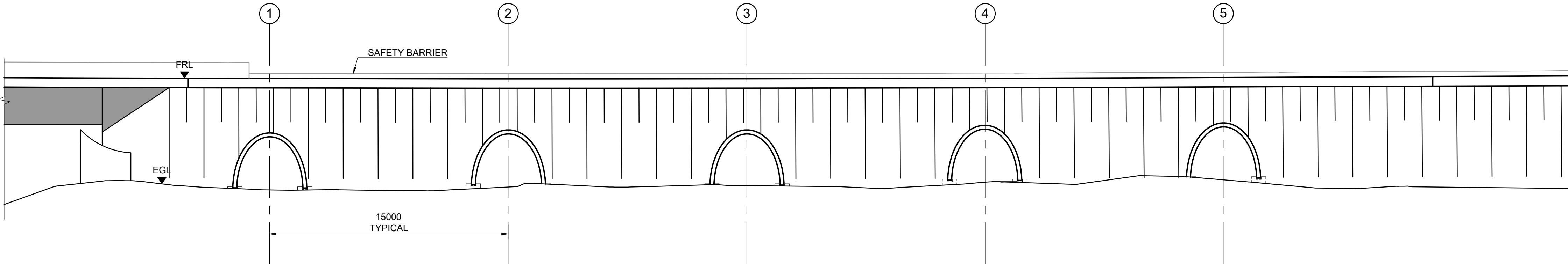
A B C D E F G H I J K L M N O P



DESIGN REPORT

- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

PLAN ON CULVERTS
SCALE: 1:200



ELEVATION A-A
SCALE: 1:200

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Clients

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N6
Galway City
Transport Project

An Roinn Iompair
Turasóireachta agus Spóirt
Department Transport, Tourism and Sport

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www.arup.ie

Job Title
N6 Galway City Ring Road

Scale
AS SHOWN @ A1

Date
June 2017

Issue	Date	By	Chkd	Appd
I2	17/10/2017	LM	PM	MS
I1	1/06/2017	LM	PM	MS

Drawing Title
Culverts and Underpasses
Structure C09-01 to 05
Sheet 1

Drawing Status
For Information

Job No 233985	Drawing No GC08-D-ST-C09-1 to 5-001	Issue I2
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A1

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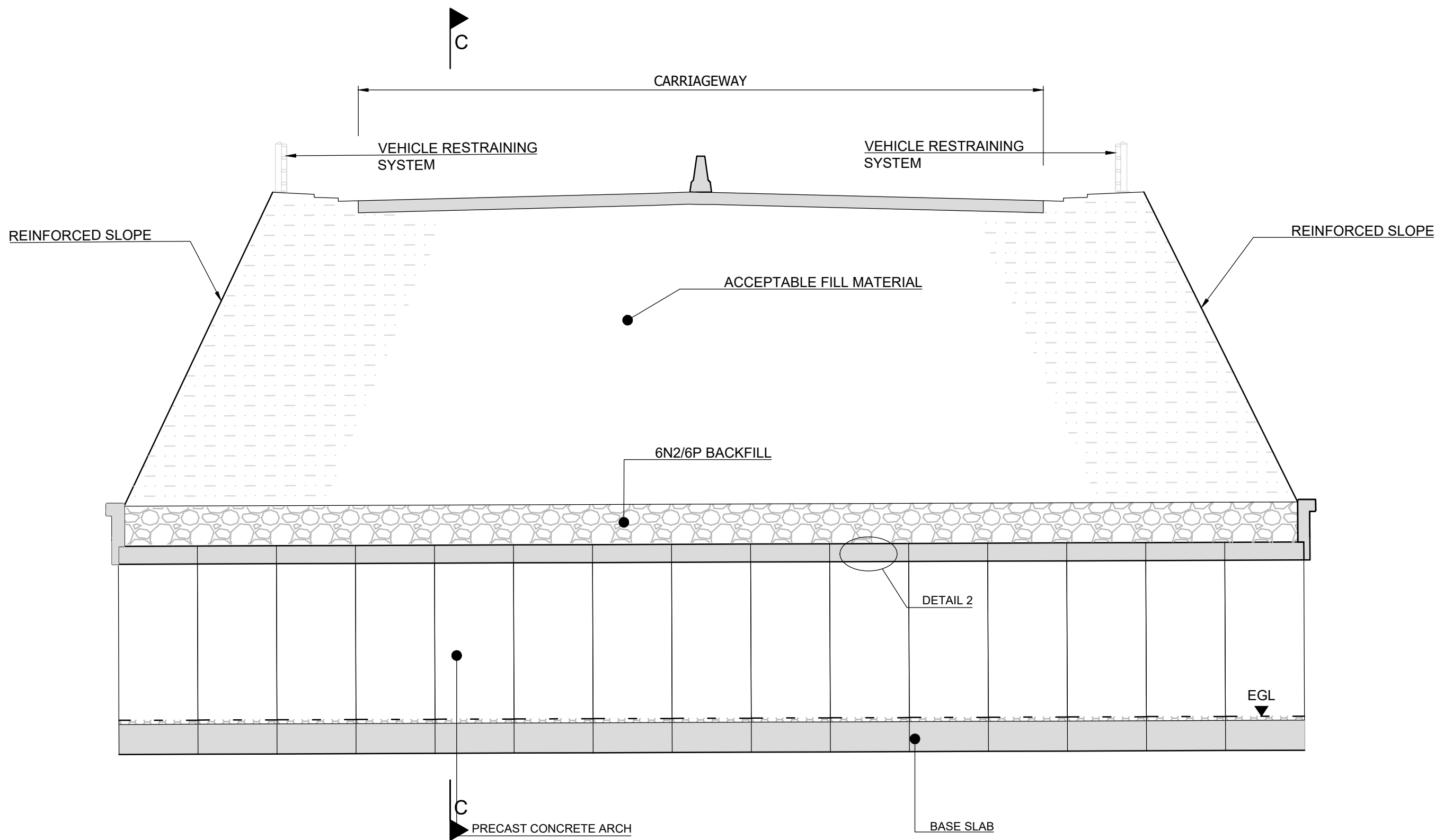
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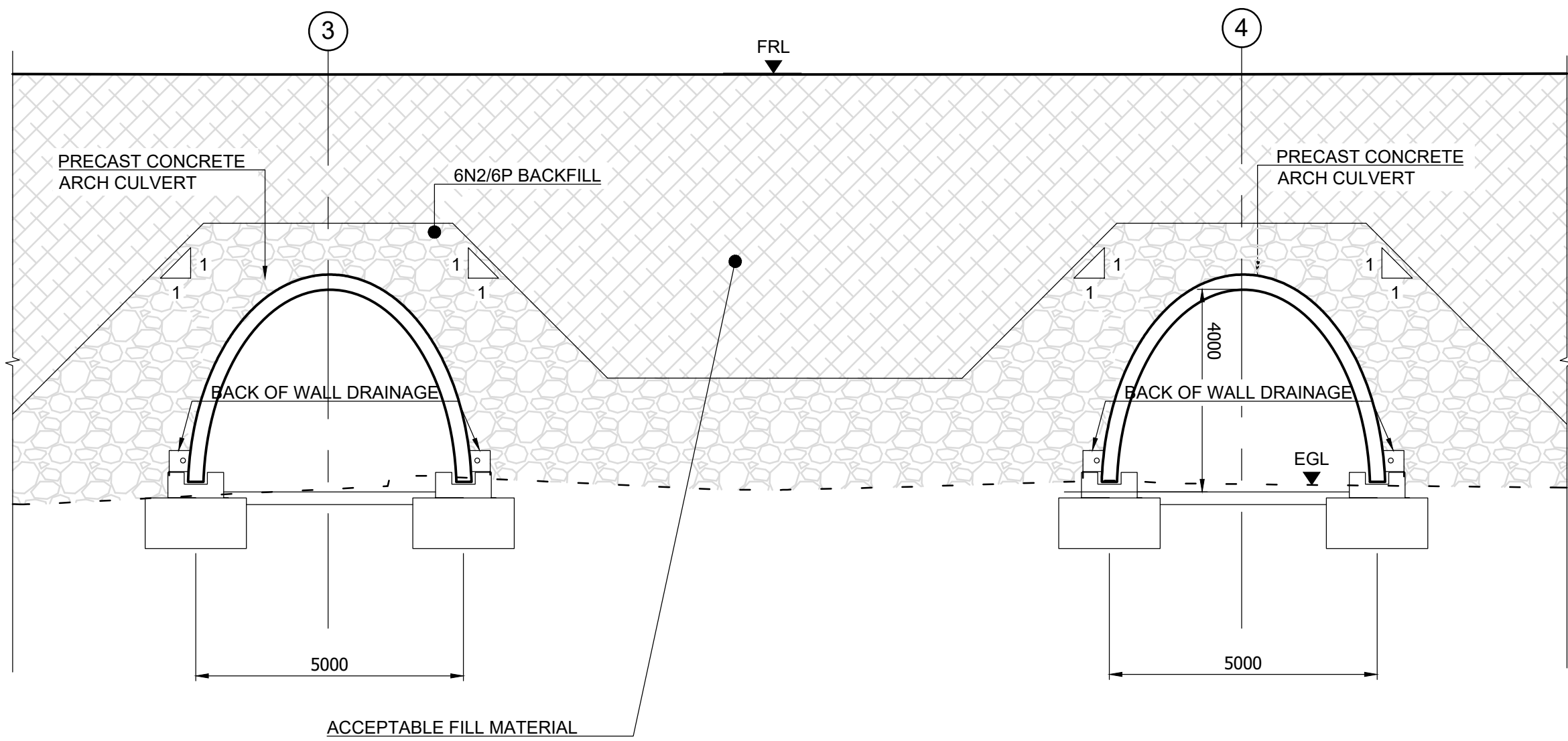
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DESIGN REPORT

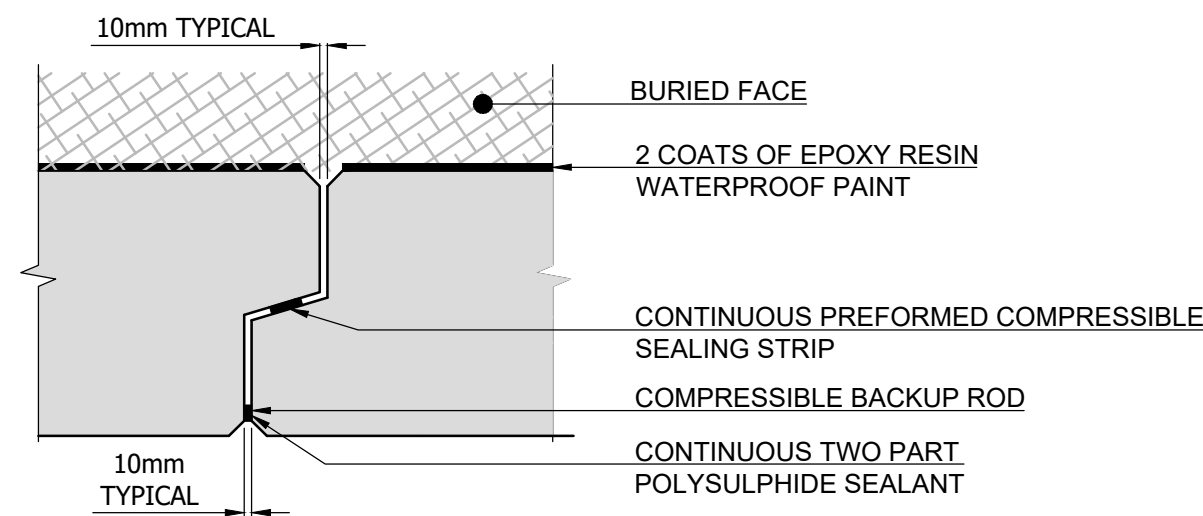
- NOTES:
- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE SHOWN IN METERS ABOVE ADVANCE DATUM.



SECTION B-B
SCALE: 1:100



TYPICAL SECTION C-C
SCALE: 1:100



DETAIL 2
SCALE: 1:10



Job Title
N6 Galway City Ring Road

Scale
AS SHOWN @ A1
Date
June 2017

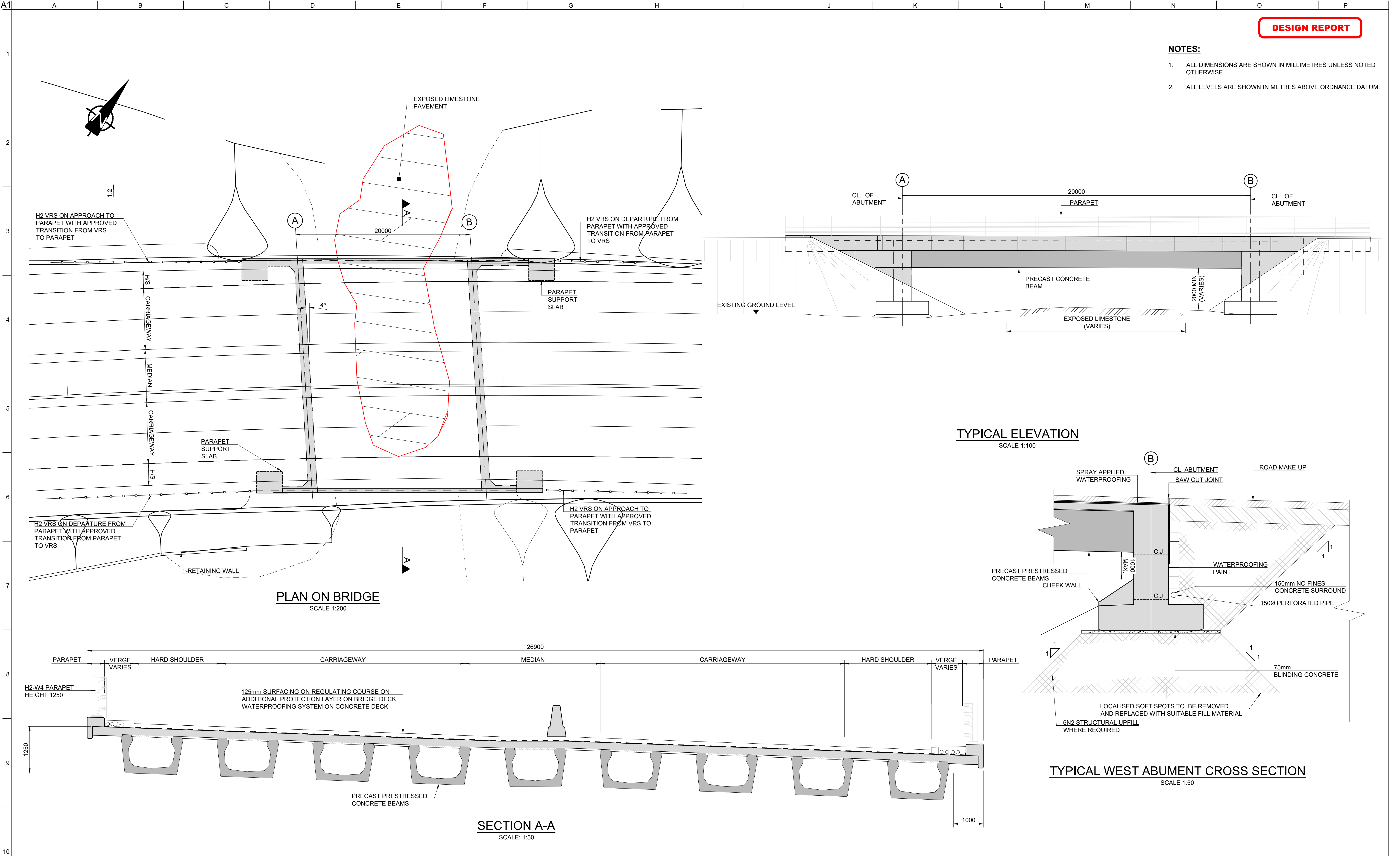
I2	17/10/2017	LM	PM	MS
I1	01/06/2017	LM	PM	MS
Issue	Date	By	Chkd	Appd

Drawing Title
Culverts and Underpasses
Structure C09-01 to 05
Sheet 2

Drawing Status
For Information

Job No
233985
Drawing No
GC08-1700-D-C09-1 to 5-002
Issue
12

A1
1
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10



DESIGN REPORT

NOTES:

- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

I2	30/06/2017	LM	PM	EMC
I1	11/07/2016	PD	PM	EMC
Issue	Date	By	Chkd	Appd