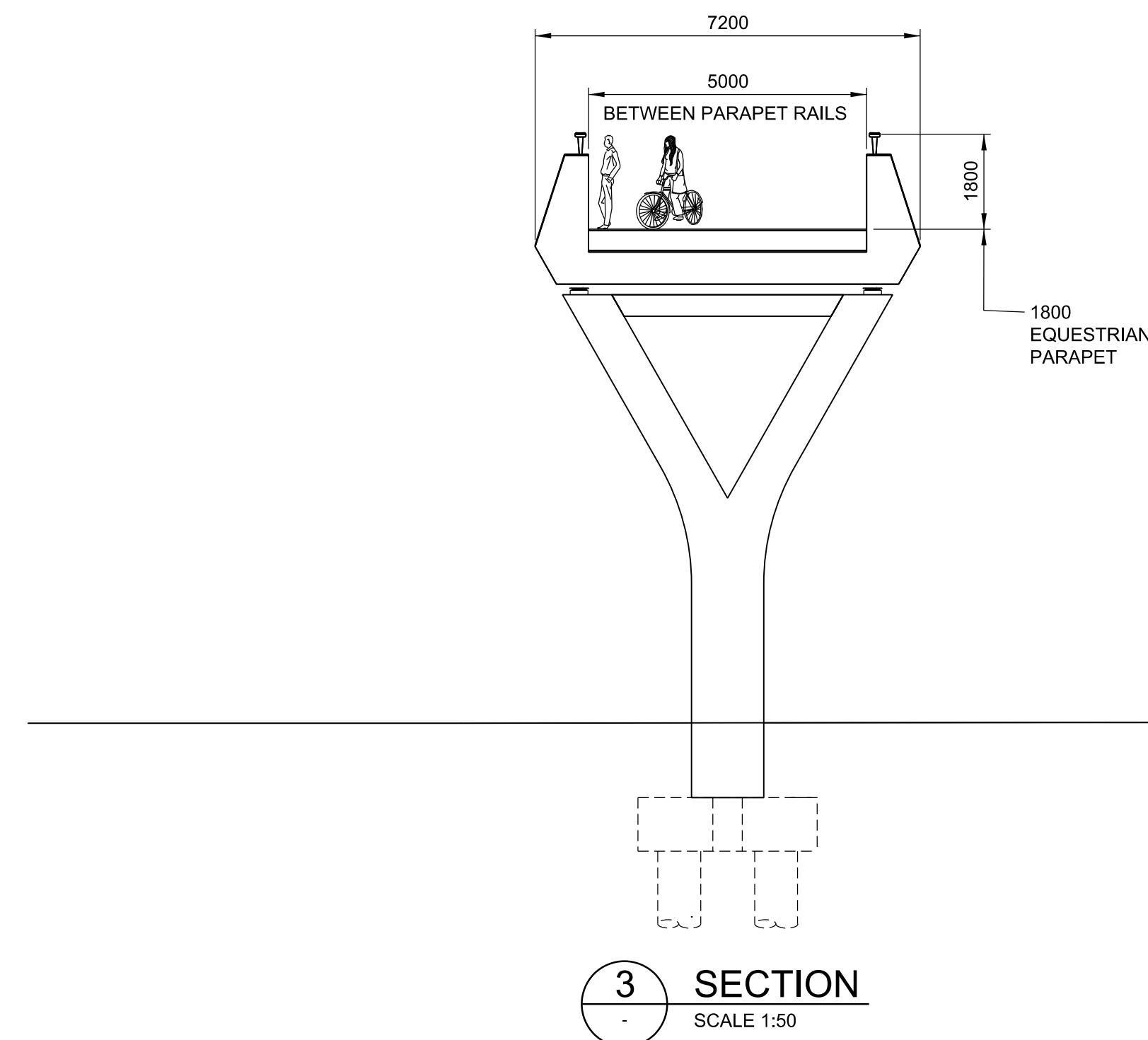
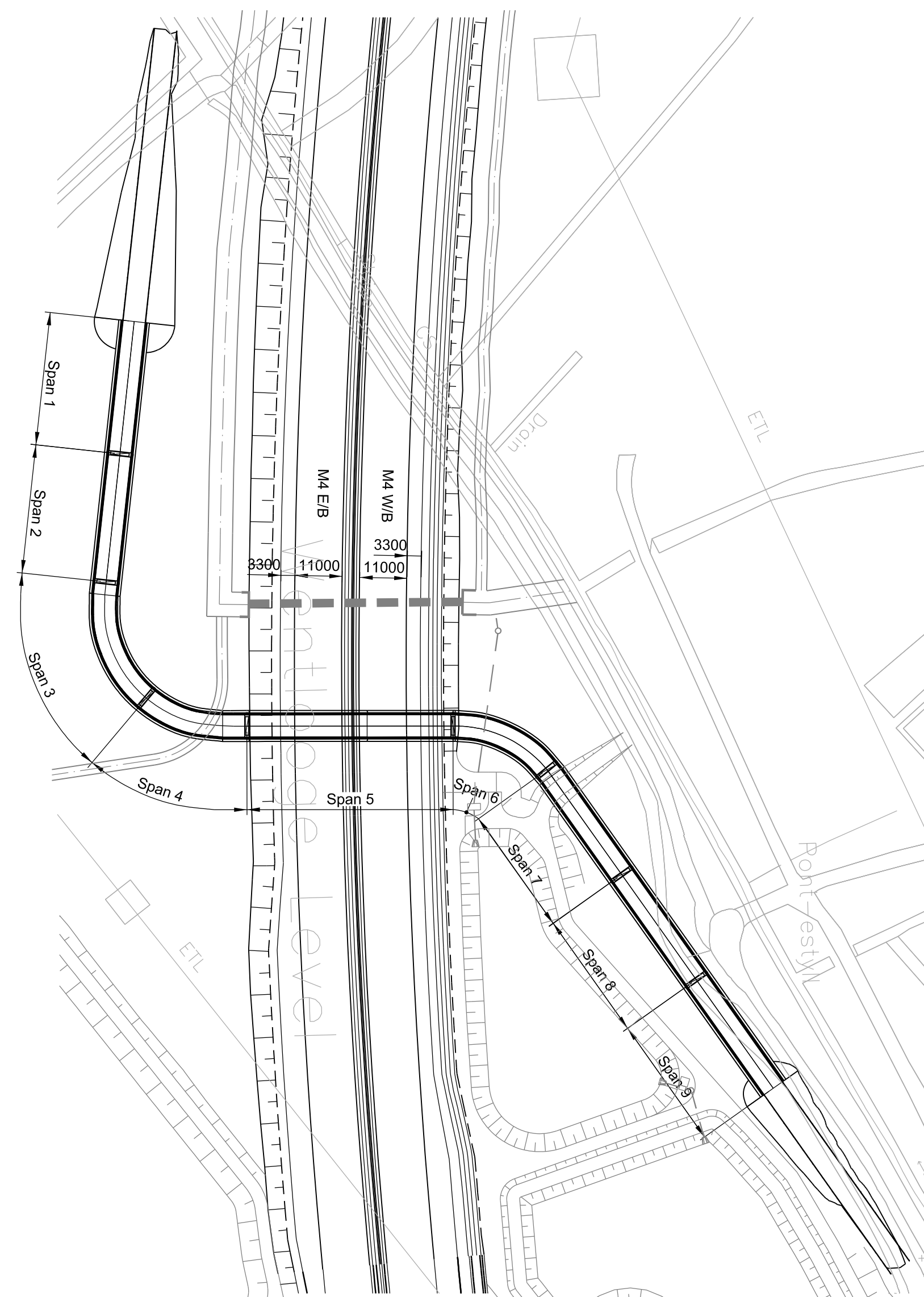
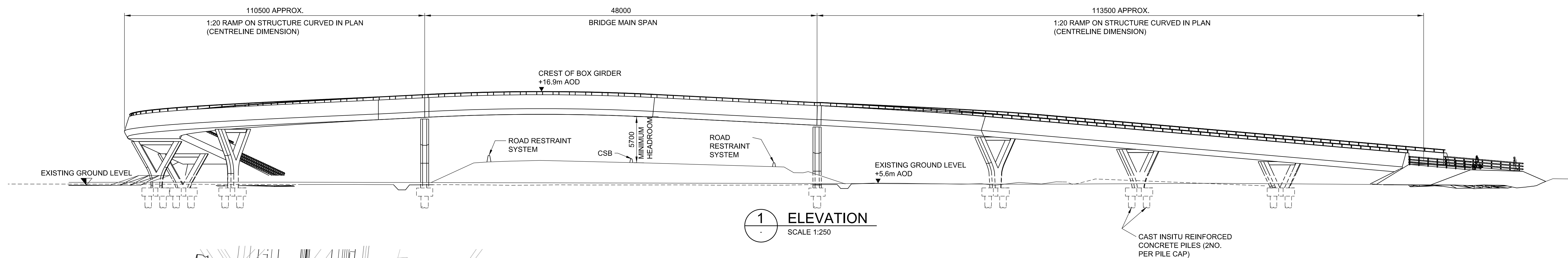


DO NOT SCALE

0 10 100

Millimetres



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3. DIMENSIONS SUBJECT TO CHANGE AT DETAILED DESIGN

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
Proximity to overhead power lines

Maintenance / Cleaning
Access to soffit for inspection and painting

Use
Access by unauthorised vehicles

Decommissioning / Demolition
Demolition in proximity to main line motorway and National Grid pylons

[illegible]

Drawing Status	
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	Suitability
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Project Title	M4 CORRIDOR AROUND NEWPORT
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Project Team	
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Drawing Title

FIGURE 2.9 PERCOED NMU BRIDGE
GENERAL ARRANGEMENT SKETCH

Scale	Designed / Drawn	Checked	Approved	Auth
1:1	MJW	MJW	MJW	

Original Size A1	Date ---	Date ---	Date ---	Date ---
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Drawing Number	Project			Originator	Volume	Rev
	MAG N. B. M. C. B.					

M4CaN - DJV - SBR - Z1_0580 - SK - CB - 0004	A
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Millimetres



PLAN
Scale 1:1000

LEGEND



1 ELEVATION
SCALE 1:500



2 SECTION
SCALE 1:250

3 SECTION
SCALE 1:250

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3. DIMENSIONS SUBJECT TO CHANGE AT DETAILED DESIGN

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
Construction adjacent to and over services not identified on plans.

Maintenance / Cleaning
Access to bridge span & abutments via Network Rail land, adjacent to railway and OLE.

Use
Refer to Emergency plan

Decommissioning / Demolition
Prestressed concrete bridge beam attached to soffit.

P01.1	--	First Issue		--	-- --
Rev.	Date	Description		By	Chk'd App'r

Drawing Status

Suitability

Project Title

M4 CORRIDOR AROUND NEWPORT

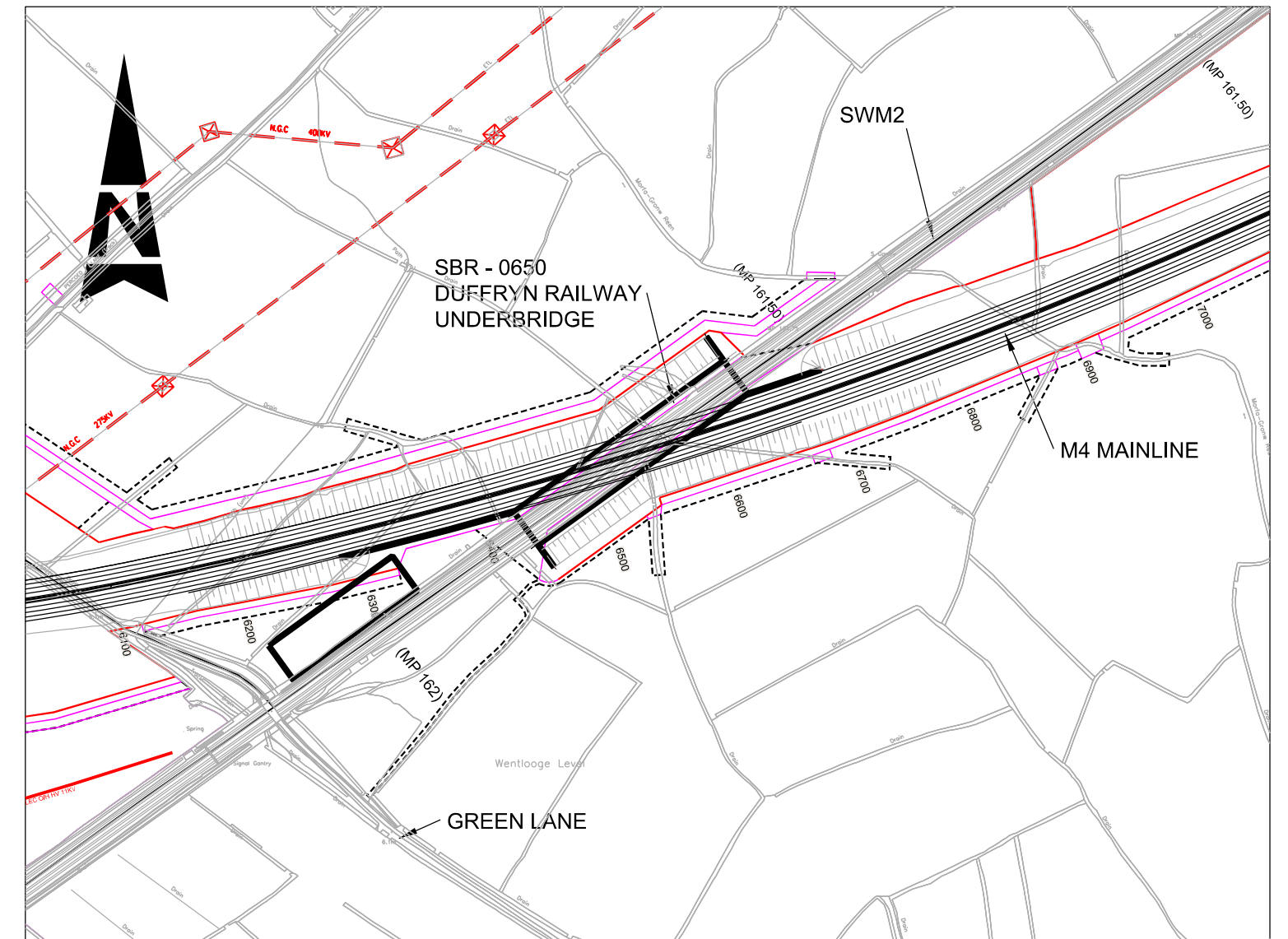
Drawing Title	FIGURE 2.10 DUFFRYN RAILWAY UNDERBRIDGE GA SKETCH FOR ES
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Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	---	---	---	---

Original Size A1	Date ---	Date ---	Date ---	Date ---
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Drawing Number	Revision	
Project	Originator	Volume
M4CaN - DJV - SBR -		AT ISSUE

Z2_0650 - SK - CB - 0023



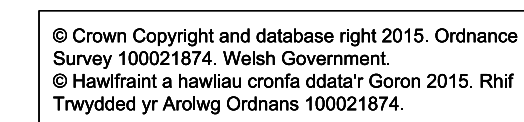
LOCATION PLAN

Scale 1:5000



Llywodraeth Cymru
Welsh Government

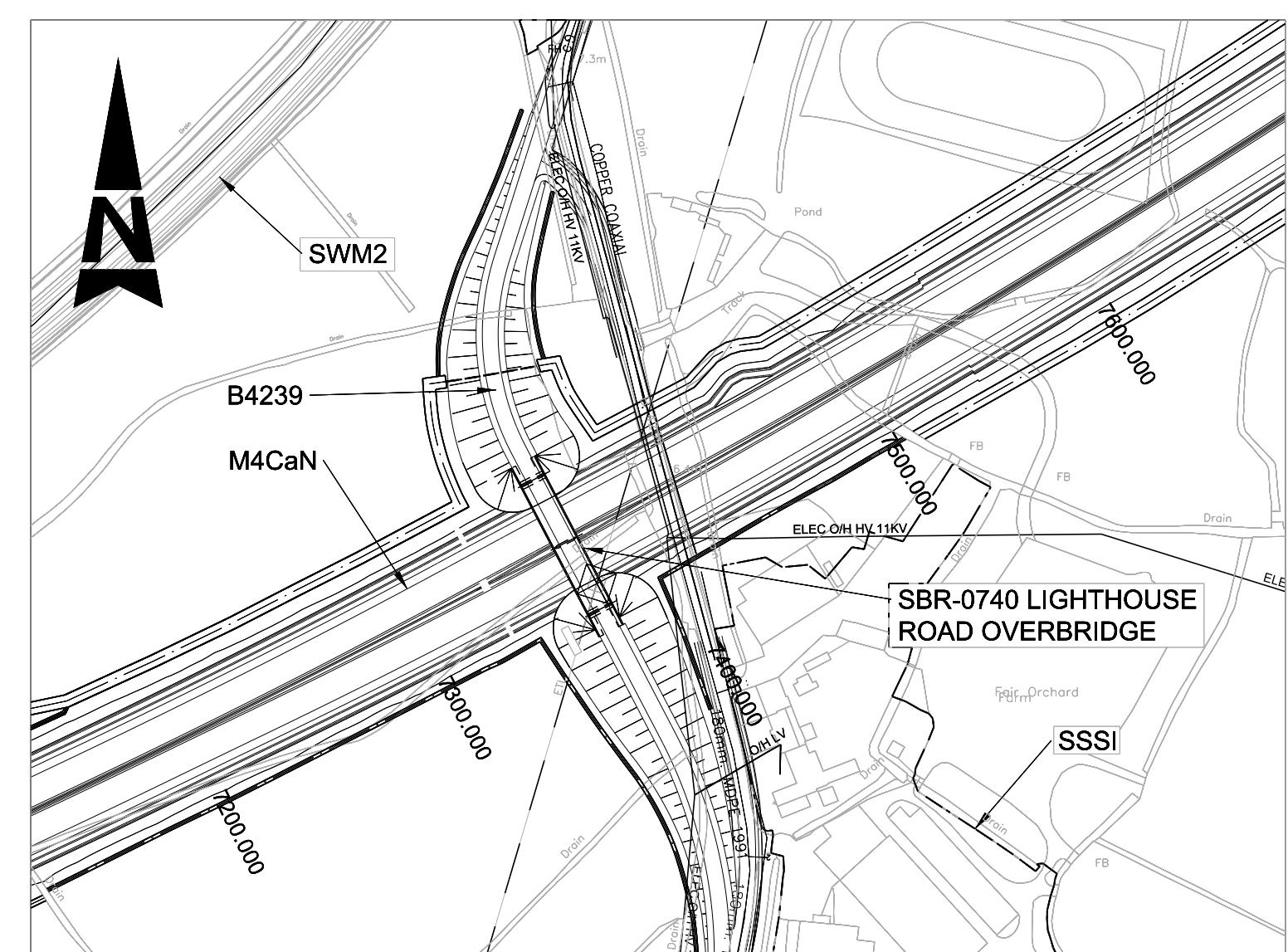
Millimetres



PLAN
SCALE 1:250

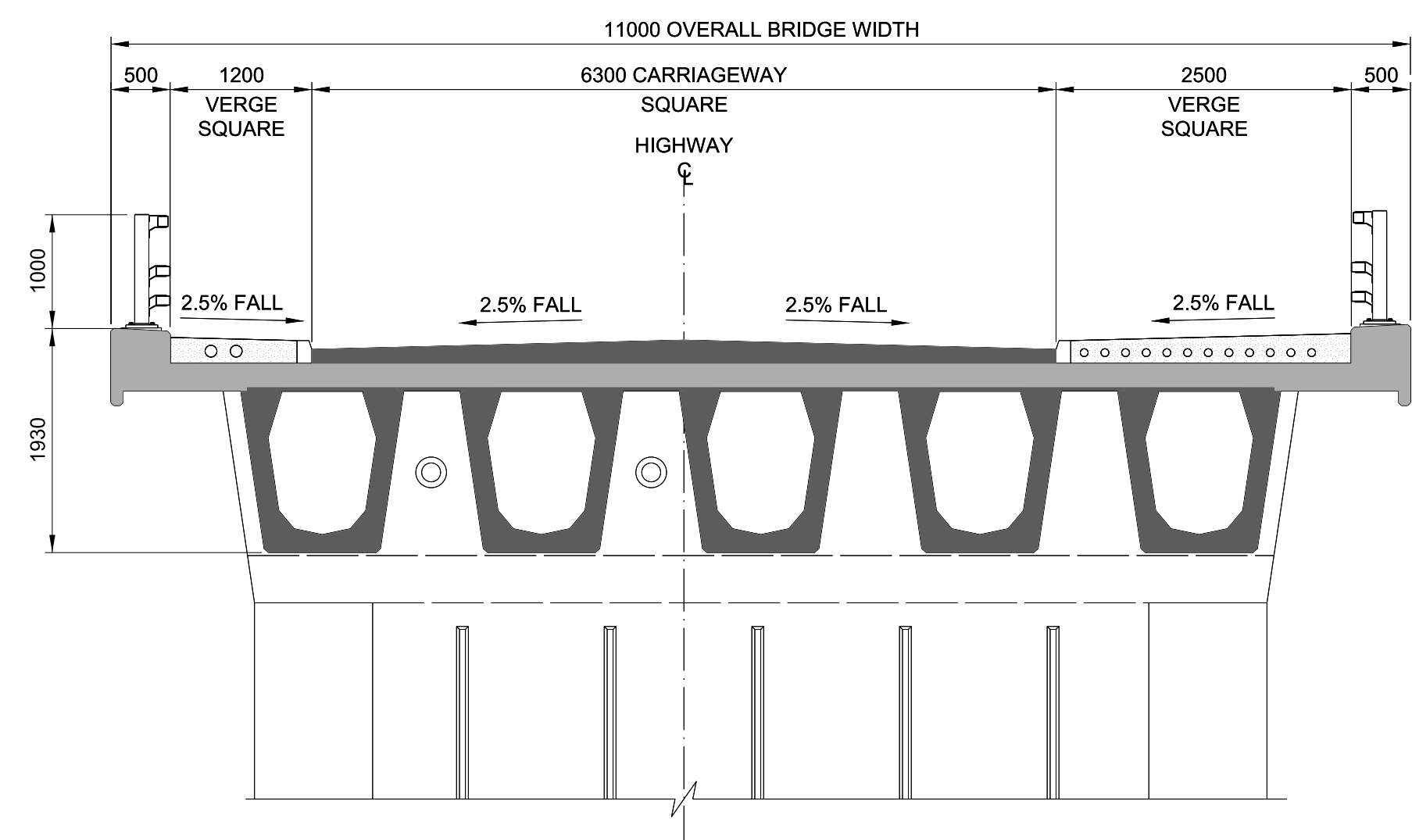


1 ELEVATION
SCALE 1:250



LOCATION PLAN

SCALE 1:5000



2 SECTION
- SCALE 1:50

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3. ALL DIMENSIONS MAY BE SUBJECT TO CHANGE AT DETAILED DESIGN.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
Crane stability on soft ground.
Risk of buried services not identified on plans.

Maintenance / Cleaning
Centre pier inspection requires lane closures

Use	
None	

Decommissioning / Demolition
Locked in stresses in precast p demolition.

P01.2	--	First Issue		--	--
Rev.	Date	Description		By	Chkd

Drawing Status	
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	Suitability
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Project Title	M4 CORRIDOR AROUND NEWPORT
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Project Team

Drawing Title
FIGURE 2.11 LIGHTHOUSE ROAD OVERBRIDGE GENERAL ARRANGEMENT SKETCH

Scale 1:1	Designed / Drawn —	Checked ---	Approved PLM	Authorised PLM
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Original Size A1	Date ---	Date ---	Date ---	Date ---
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Drawing Number			Revision
Project	Originator	Volume	

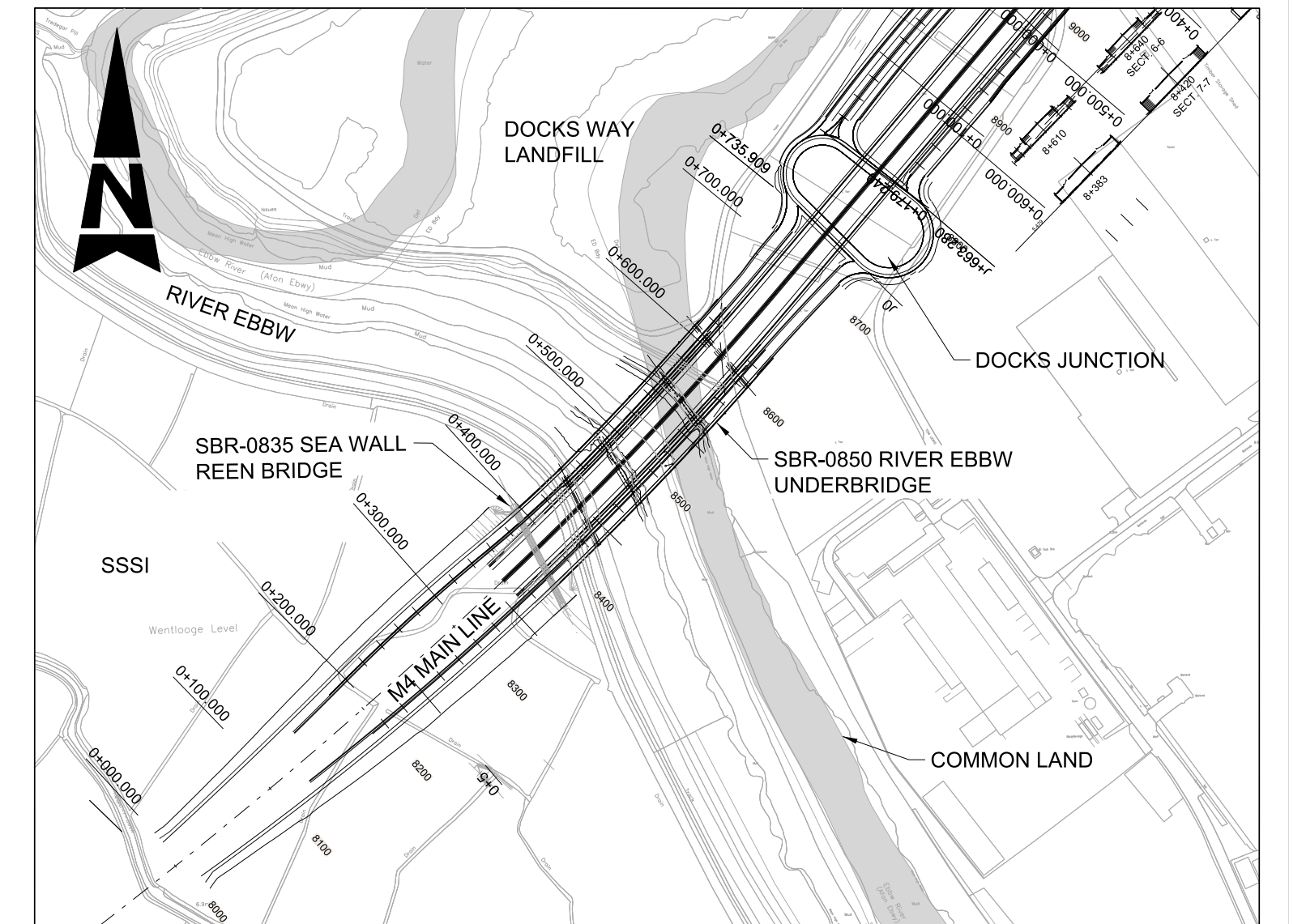
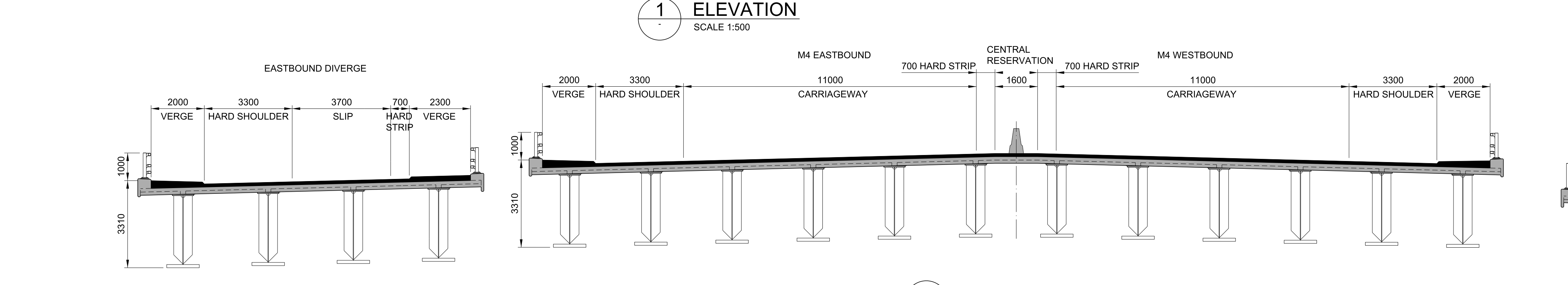
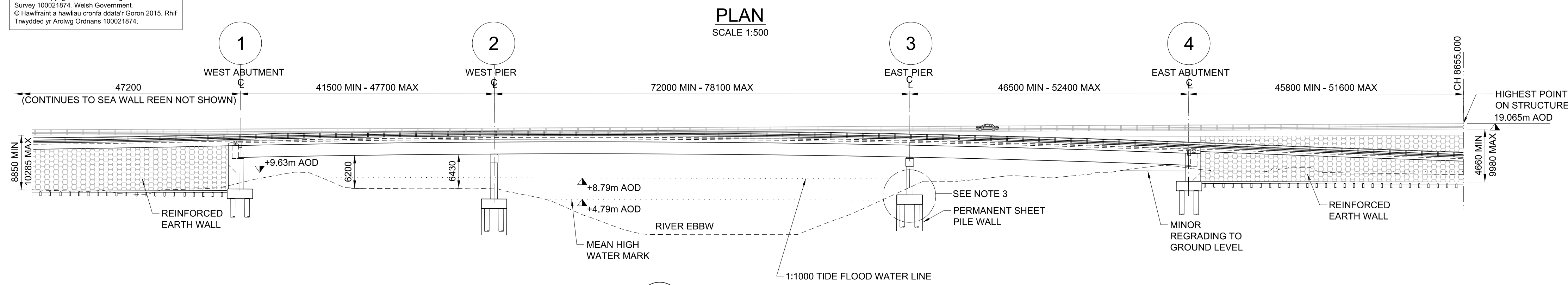
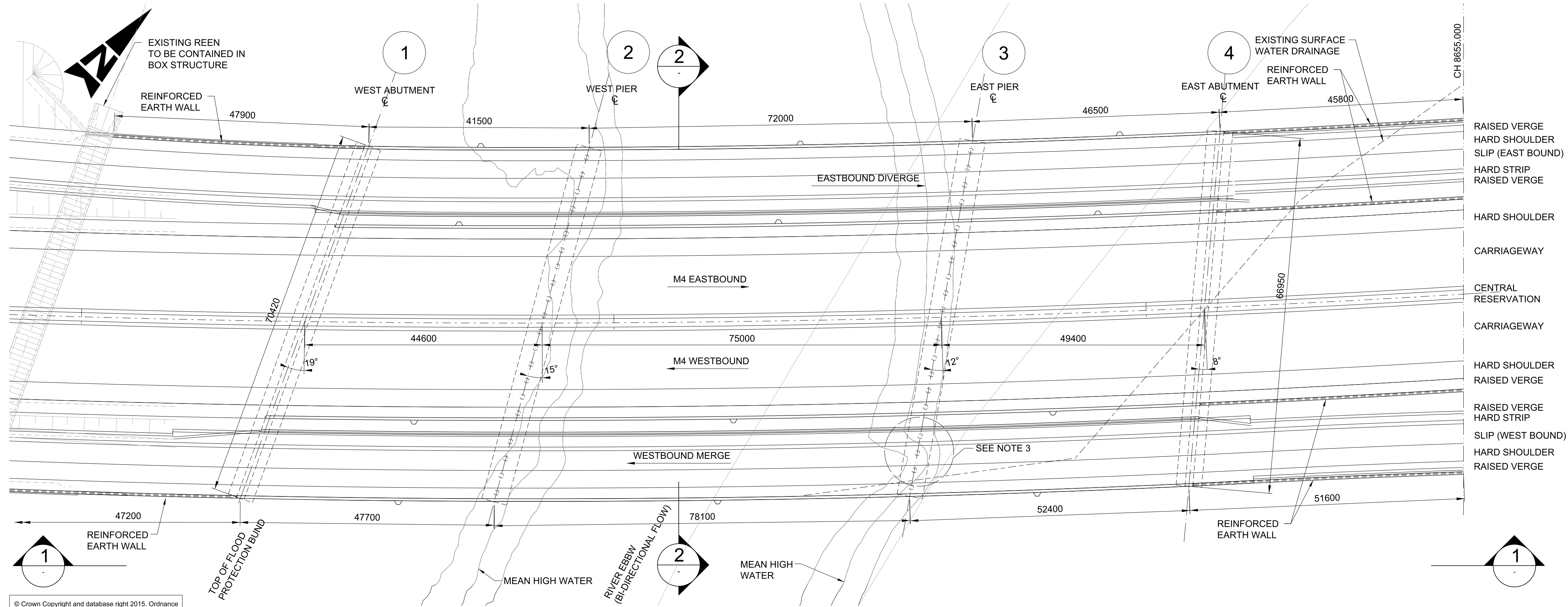
M4CaN - DJV - SBR - 72 0740 - SK - CB - 0003	AT ISSU
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Location	Type	Role	Number
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Client	 Llywodraeth Cymru Welsh Government
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DO NOT SCALE

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Millimetres



LOCATION PLAN
SCALE 1:5000

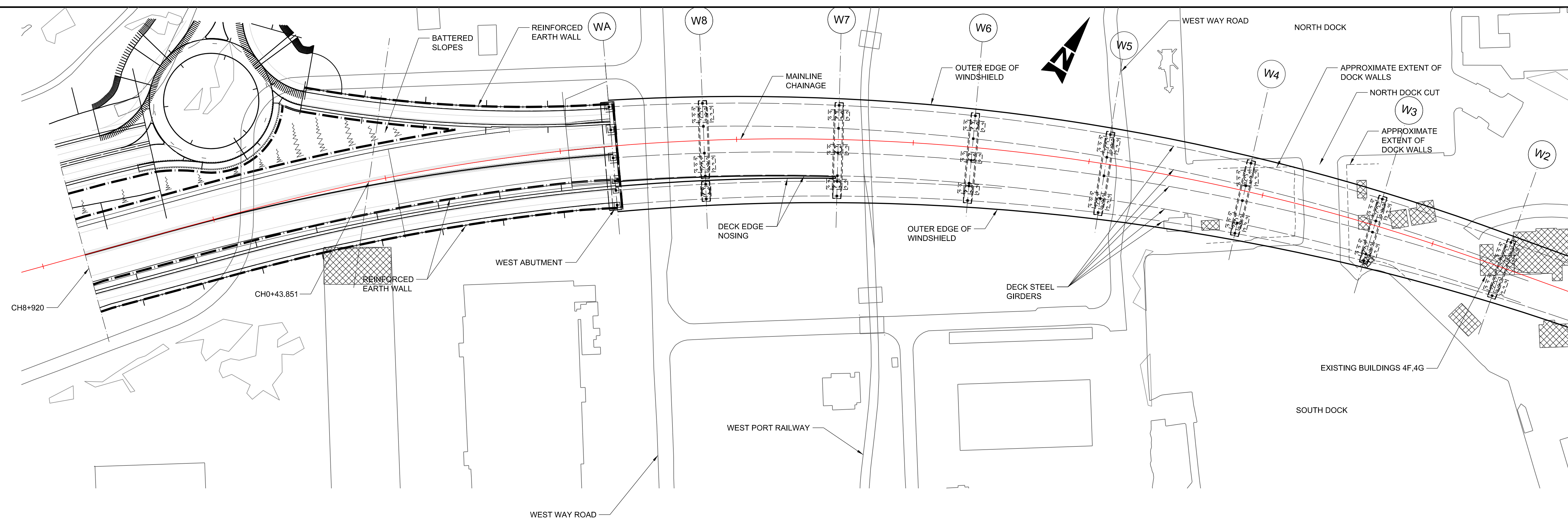
GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3. DRAINAGE HEADWALL TO BE REMOVED AND BANK REGRADED LOCALLY.
4. ALL DIMENSIONS MAY BE SUBJECT TO CHANGE AT DETAILED DESIGN

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION				
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).				
Construction Flood damage, Drainage outfall, Craneage on soft ground, Protection of water course.				
Maintenance / Cleaning Bearing replacement, Inspection of main span.				
Use Possible netting requirement between Eastbound diverge and Main Line decks.				
Decommissioning / Demolition Protection of water course.				

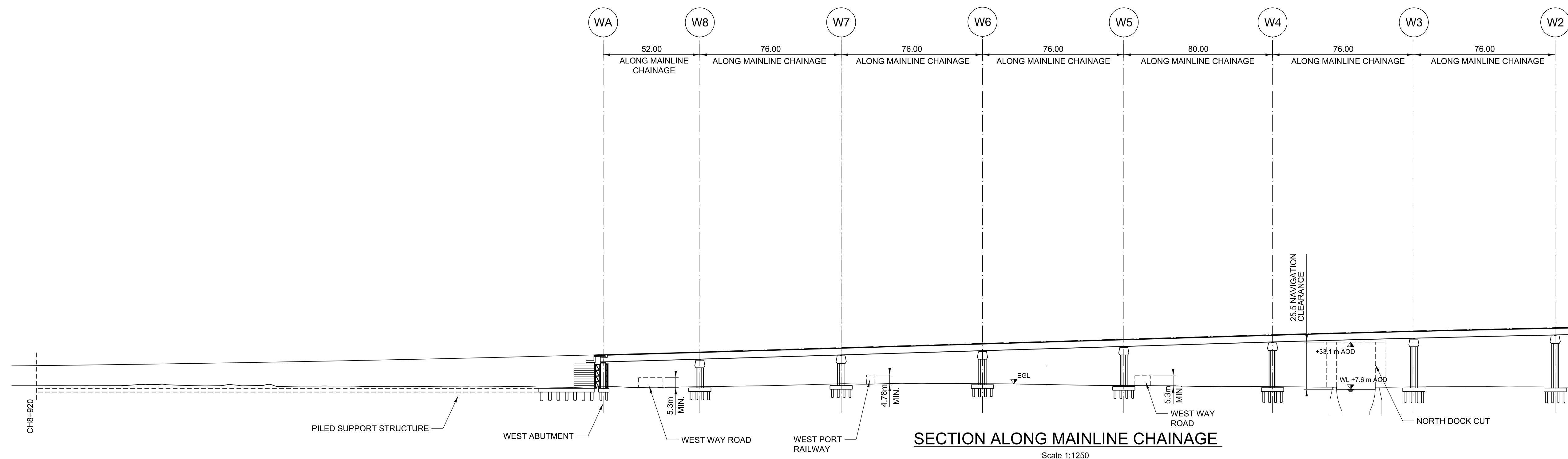
P01.2	---	First Issue	---	---	---
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status		Suitability		Project Title							
				M4 CORRIDOR AROUND NEWPORT							
Project Team						Drawing Title					
						FIGURE 2.12 RIVER EBBW UNDERBRIDGE ENVIRONMENTAL STATEMENT					
						Scale	Designed / Drawn	Checked	Approved	Authorised	
						AS SHOWN	---	---	---	---	
Client						Original Size	Date	Date	Date	Date	
						A1	---	---	---	---	
 Llywodraeth Cymru Welsh Government						Drawing Number				Revision	
						Project				Originator	Volume
						M4CaN - DJV - SBR - Z2_0850 - SK - CB - 0002				AT ISSUE	
						Location	Type	Role	Number		

Millimetres



PLAN
Scale 1:250



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GENERAL NOTES:	
1.	ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
2.	ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3.	REFER TO DRAWING 1001 FOR ABBREVIATIONS
4.	FOR EXISTING BUILDING CLASSIFICATIONS REFER TO NEWPORT DOCKS HISTORIC BUILT ENVIRONMENT ASSESSMENT.
5.	PRELIMINARY FOUNDATION SIZING HAS BEEN BASED ON LIMITED SPT DATA WITHIN THE MERCIA MIDSTONE. REFER TO THE AIP FOR DETAILS OF THE AVAILABLE GROUND INFORMATION AND DESIGN ASSUMPTIONS.

 BUILDINGS REQUIRING DEMOLITION OR MODIFICATION FOR PERMANENT AND TEMPORARY WORKS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
None

Maintenance / Cleaning

Use
None

Decommissioning / Demolition

None

[illegible]

Drawing Status	
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Project Team	
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Client	
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Llywodraeth Cymru
Welsh Government

	Suitability
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	Project Title
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Drawing Title

Scale

Designed / Drawn

Date	
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12/02/16

8

Original
M4CoN D

GEN. 25

GEN - DR

Type

Project Title	M4 CORRIDOR AROUND NEWPORT
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Drawing Title	FIGURE 2.13A - RIVER USK CROSSING PLAN & ELEVATION SHEET 1 OF 3
---------------	---

Scale	Designed / Drawn	Checked	Approved	Auth
1:1250	DAW	MAH	MYG	

Original Size	Date	Date	Date	Date
A1	12/02/16	15/02/16	15/02/16	1

Drawing Number	Project	Originator	Volume	Revision
	M4CoN	DIV	SBB	

M4CaN - DJV - SBR -				AI
Z3_GEN - DR - CB - 1002				
Location	Type	Date	Number	

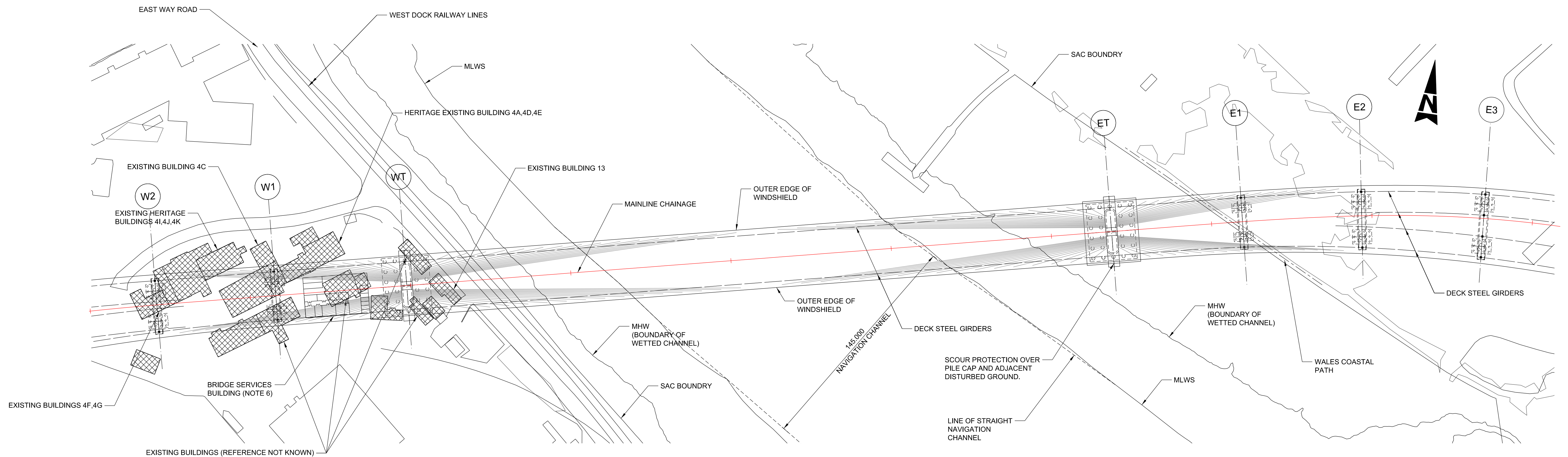
Location	Type	Role	Number
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AT ISSUE

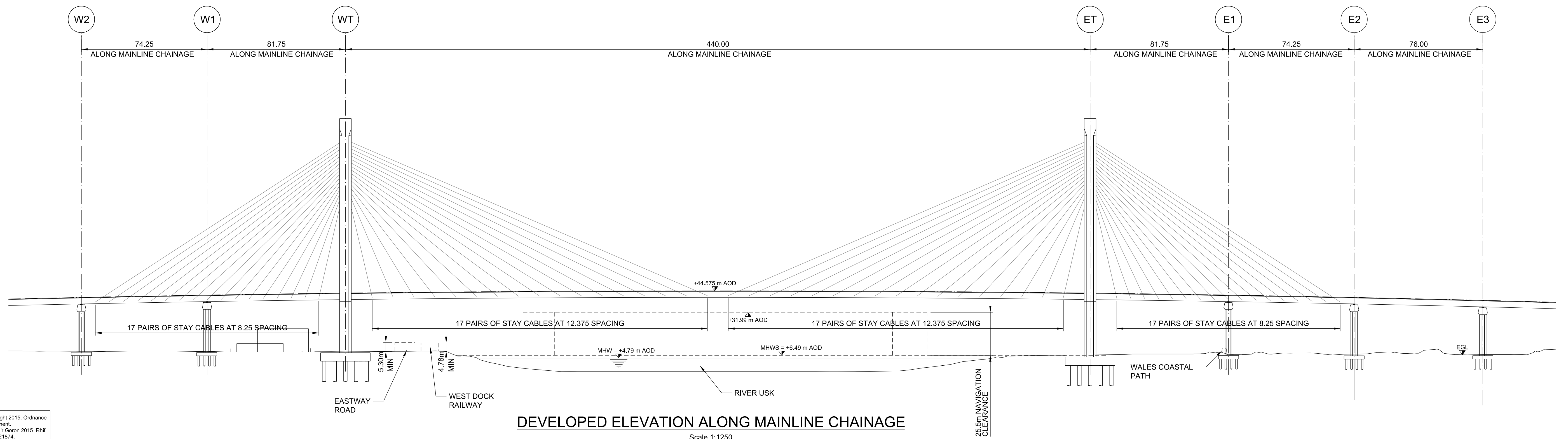
DO NOT SCALE

Millimetres

0 10 100



PLAN
Scale 1:1250



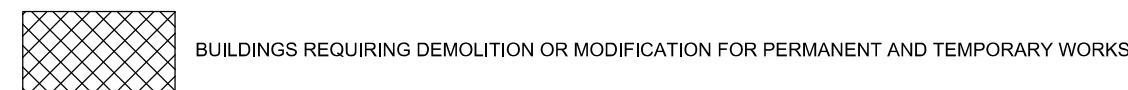
DEVELOPED ELEVATION ALONG MAINLINE CHAINAGE

Scale 1:1250

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GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3. REFER TO DRAWING '1001 FOR ABBREVIATIONS.
4. FOR EXISTING BUILDING CLASSIFICATIONS REFER TO NEWPORT DOCKS HISTORIC BUILD ENVIRONMENT ASSESSMENT.
5. PRELIMINARY FOUNDATION SIZING HAS BEEN BASED ON LIMITED DATA WITHIN THE AREA. MERCIA MUSEUMS REFER TO THE AIP FORM C FOR DETAILS OF THE AVAILABLE GROUND INFORMATION AND DESIGN ASSUMPTIONS.
6. REFER TO DRAWING 2008 FOR PLAN LAYOUT OF THE BUILDING SERVICES BUILDING.



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
None

Maintenance / Cleaning

None

Use

None

[illegible]

Decommissioned
None

[illegible]

	Drawing Status
--	----------------

Suitability

Project Title

M4 CORRIDOR AROUND NEWPORT

Project Team	
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Drawing Title	FIGURE 2.13B - RIVER USK CROSSING PLAN & ELEVATION SHEET 2 OF 3
---------------	--

Scale 1:1250	Designed / Drawn DAW	Checked MAH	Approved MYG	Authorised MY
Original Size A1	Date 12/02/16	Date 15/02/16	Date 15/02/16	Date 15/02/16

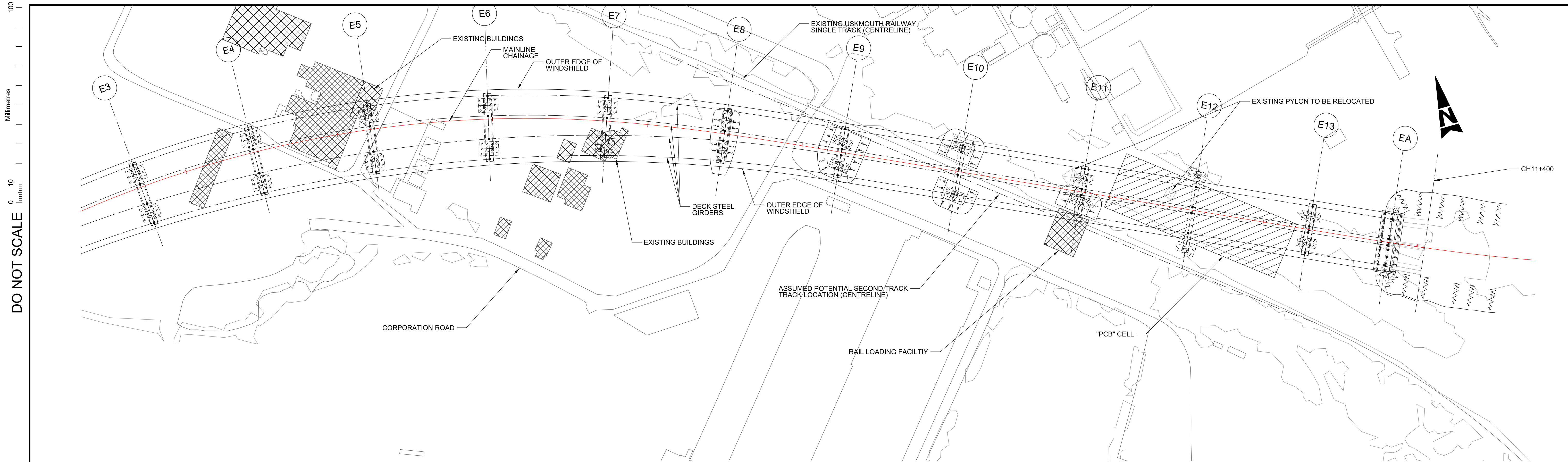
Drawing Number					Revision	
Project		Originator		Volume		
M4CaN - DJV - SBR -					AT IS	
Z3_GEN - DR - CB - 1003						
Location		Type		Number		

Client

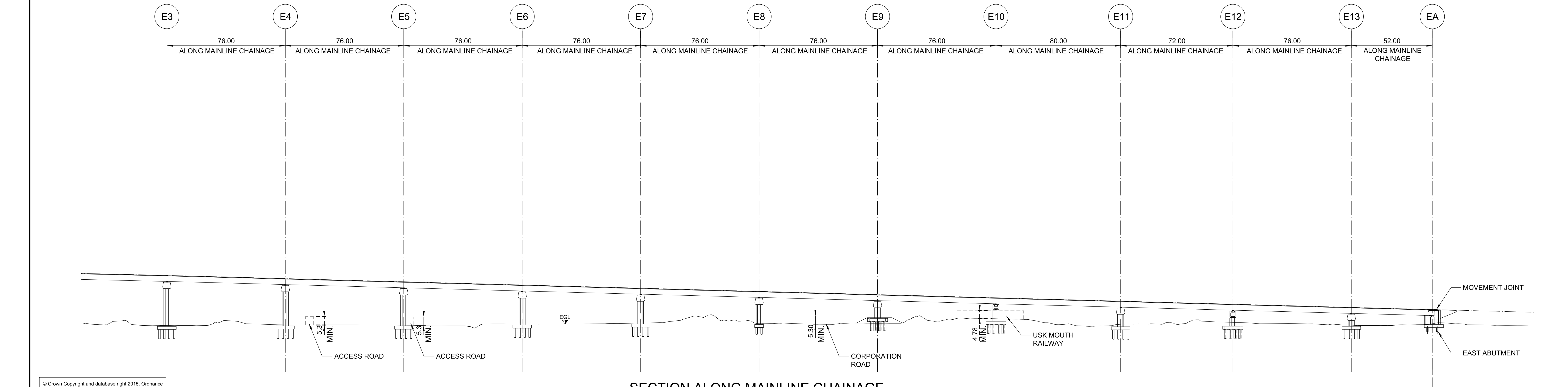


Llywodraeth Cymru
Welsh Government

Millimetres



PLAN
Scale 1:1250

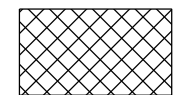


SECTION ALONG MAINLINE CHAINAGE

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GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
3. REFER TO DRAWING 1001 FOR ABBREVIATIONS
4. FOR EXISTING BUILDING CLASSIFICATIONS REFER TO NEWPORT DOCKS HISTORIC BUILT ENVIRONMENT ASSESSMENT.
5. PRELIMINARY FOUNDATION SIZING HAS BEEN BASED ON LIMITED SPT DATA WITHIN THE MERCIA MUDSTONE. REFER TO THE AIP FORM C FOR DETAILS OF THE AVAILABLE GROUND INFORMATION AND DESIGN ASSUMPTIONS.



BUILDINGS REQUIRING DEMOLITION OR MODIFICATION FOR PERMANENT AND TEMPORARY WORKS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	The PCB cell is a highly contaminated zone No construction to take place directly on this zone
--------------	--

Maintenance / Cleaning
None

Use
None

Decommissioning / Demolition
None

[illegible]

Drawing Status

	Suitability
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Project Title	
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M4 CORRIDOR AROUND NEWPORT

Drawing Title

FIGURE 2.13C - RIVER USK CROSSING
PLAN & ELEVATION
SHEET 3 OF 3

Scale	Designed / Drawn	Checked	Approved	Authorised
1:1250	DAW	MAH	MYG	KE

Original Size A1	Date 12/02/16	Date 15/02/16	Date 15/02/16	Date 15/02/16
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Drawing Number			Revision
Project	Originator	Volume	

M4CaN - DJV - SBR -	AT IS
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Z3_GEN - DR - CB - 1004

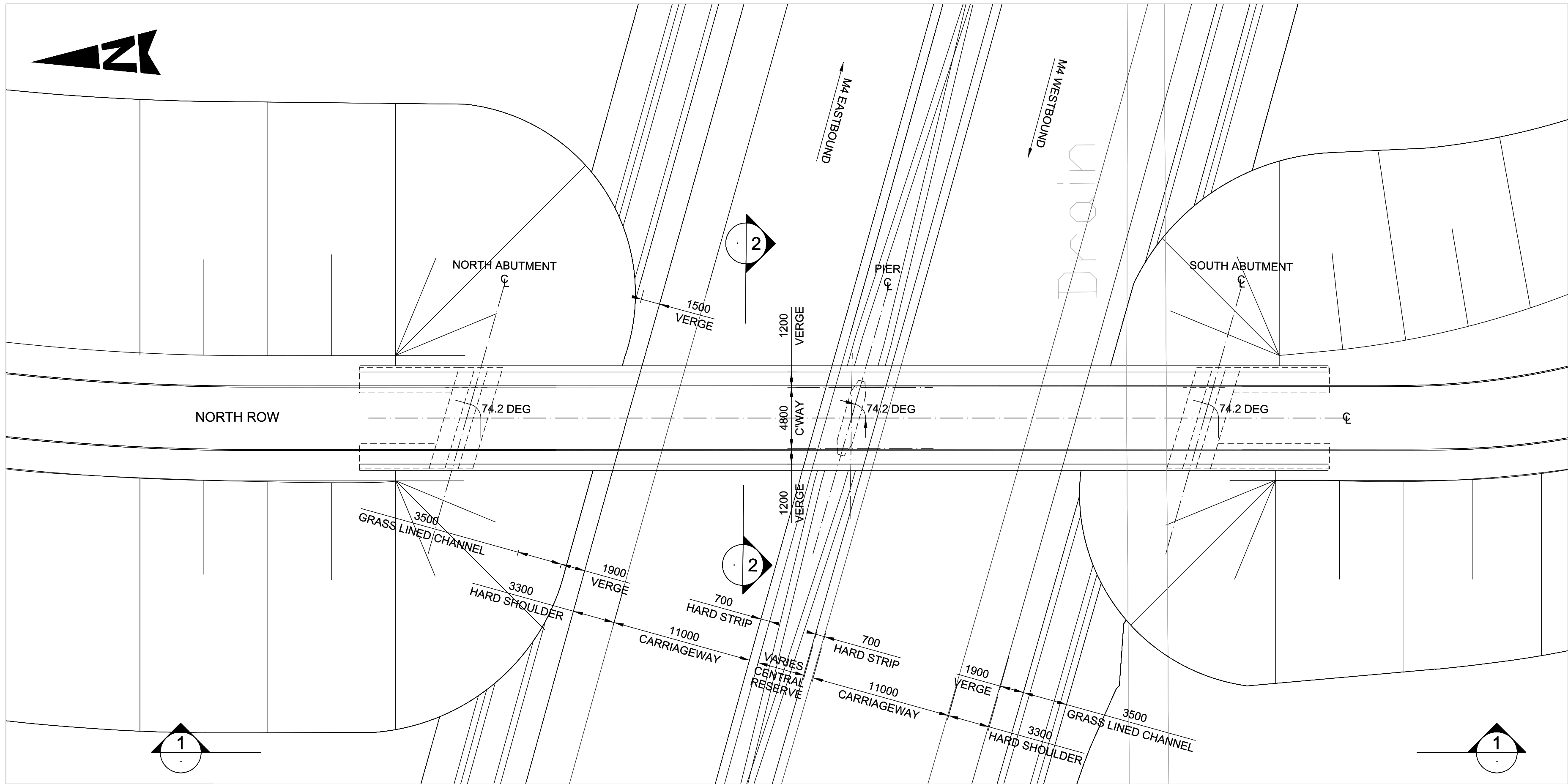
Client	
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Llywodraeth Cymru
Welsh Government

DO NOT SCALE

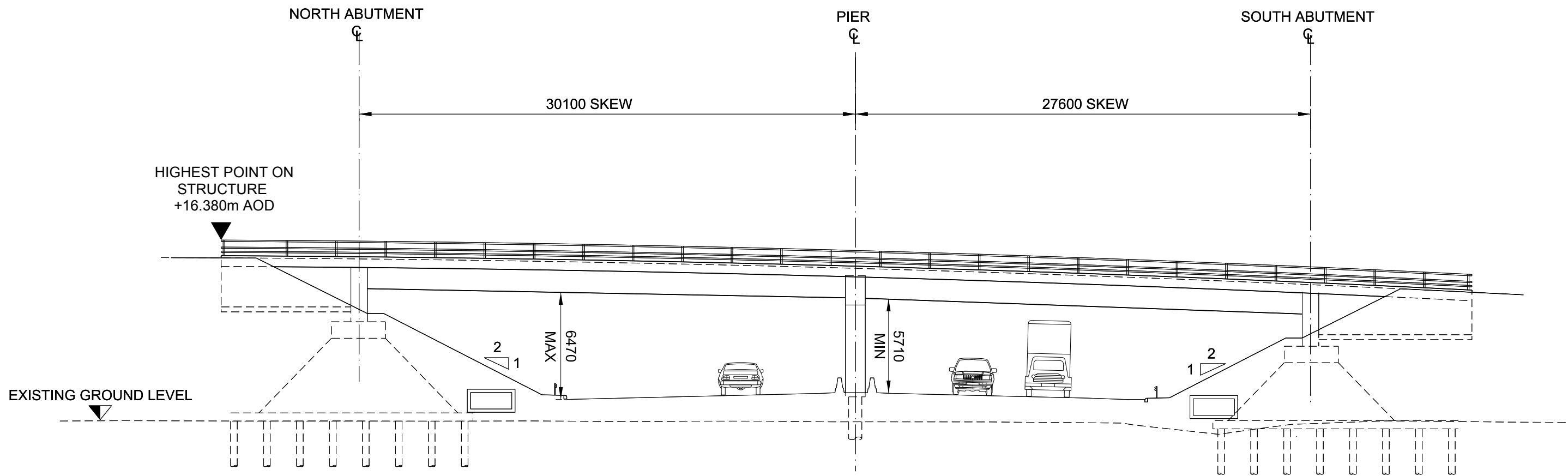
100
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Millimetres



PLAN

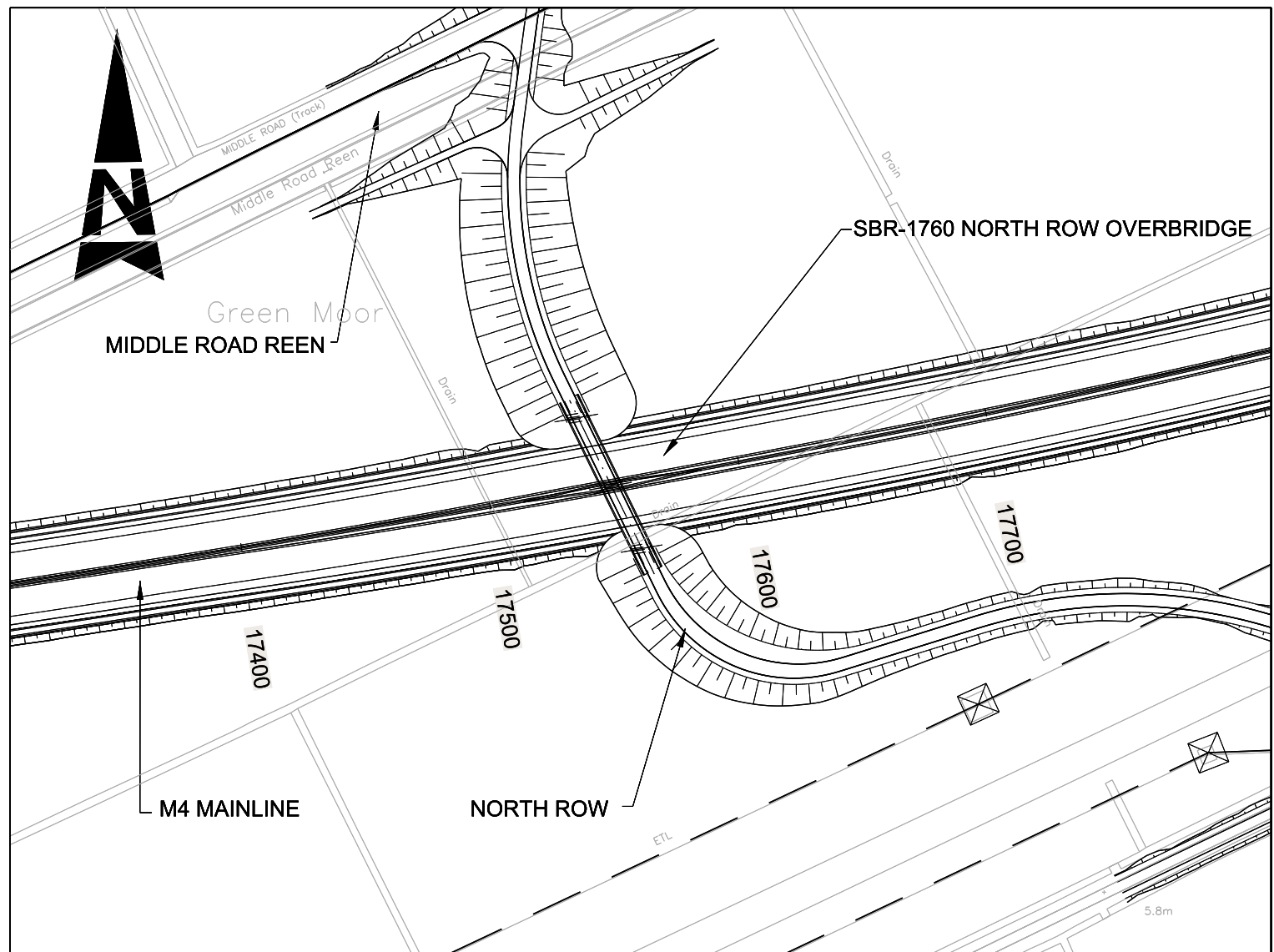
SCALE 1:250

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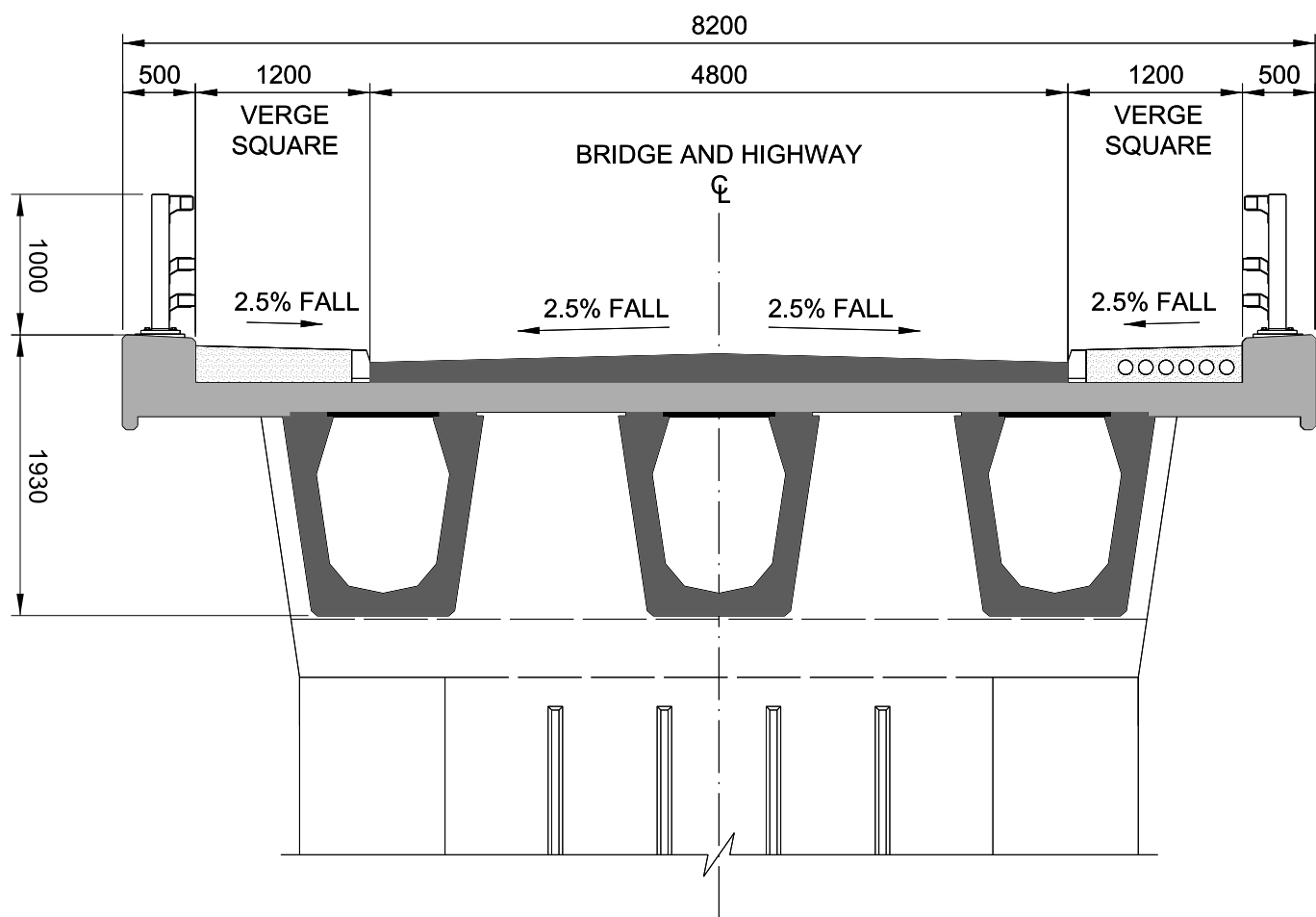
1 ELEVATION

SCALE 1:250



LOCATION PLAN

SCALE 1:5000



2 SECTION

SCALE 1:50

- GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
 3. ALL DIMENSIONS MAY BE SUBJECT TO CHANGE AT DETAILED DESIGN

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

- Construction
- Crane stability on soft ground.
 - Risk of buried services not identified on plan
- Maintenance / Cleaning
- Centre pier inspection requires lane closure

Use

None

Decommissioning / Demolition

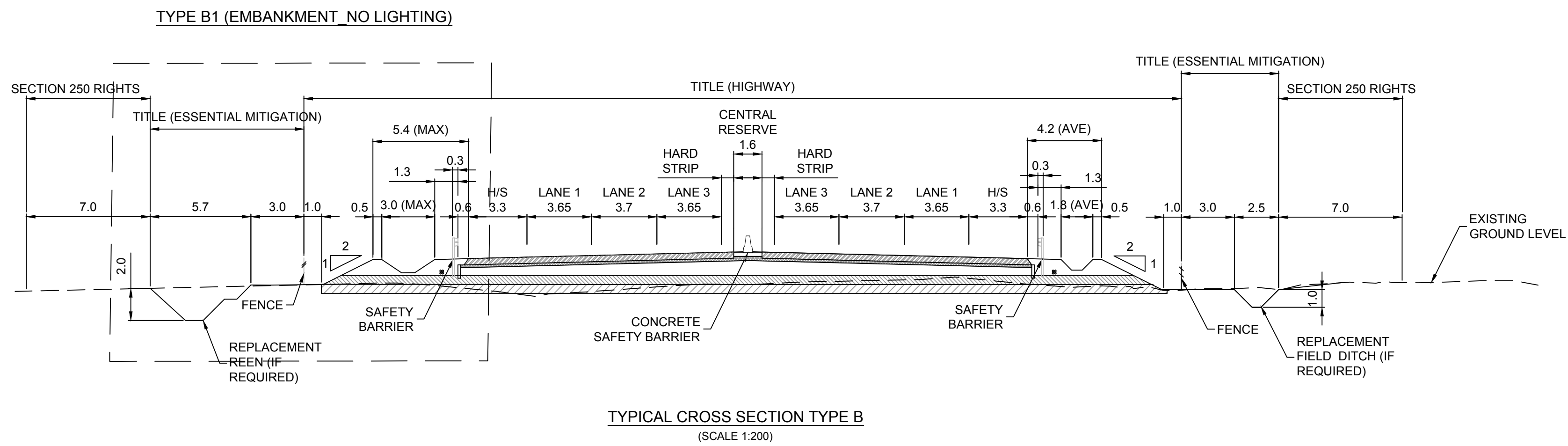
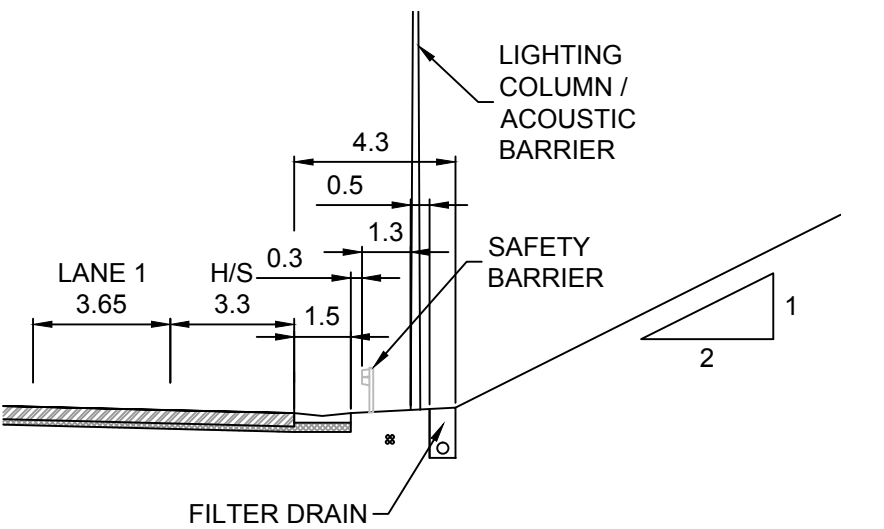
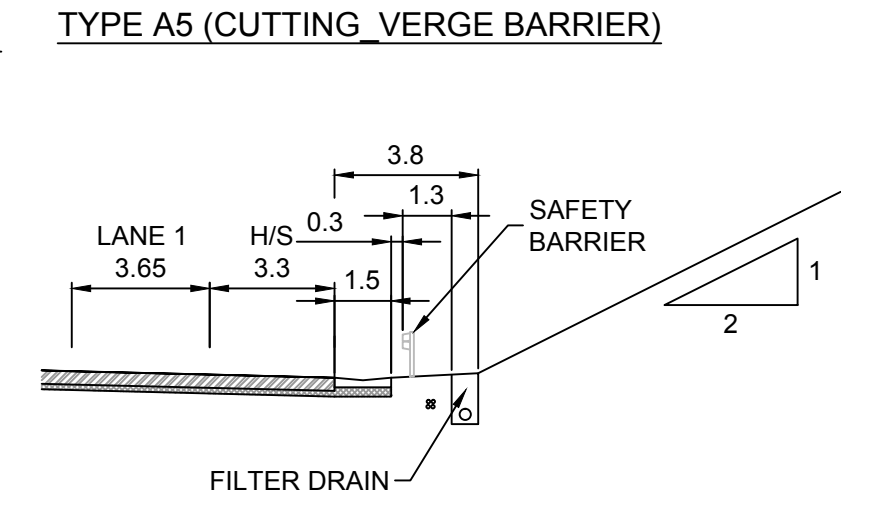
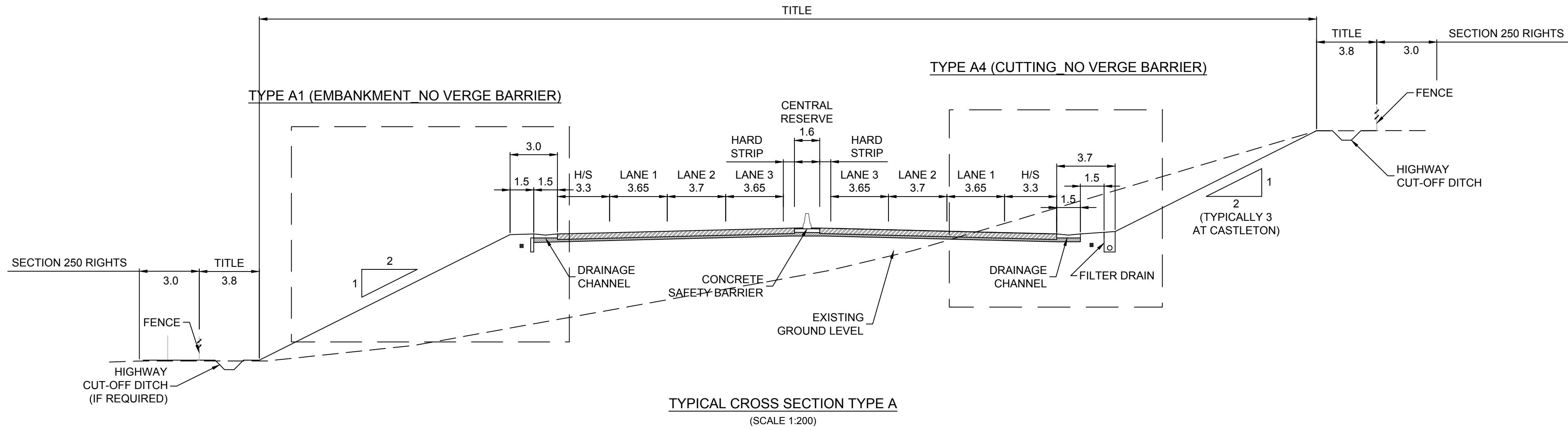
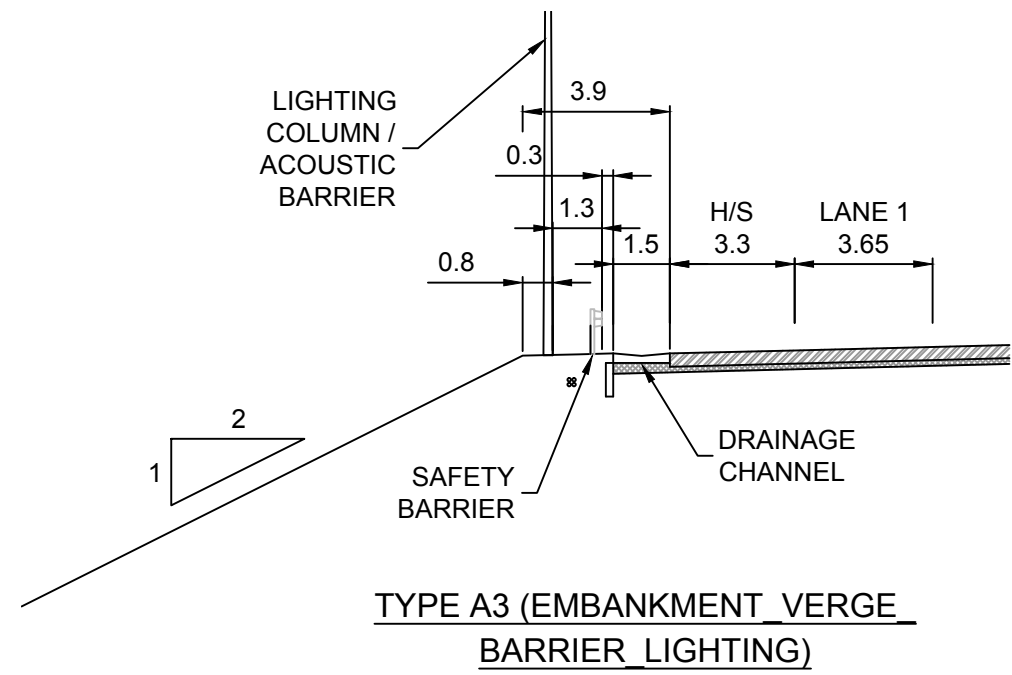
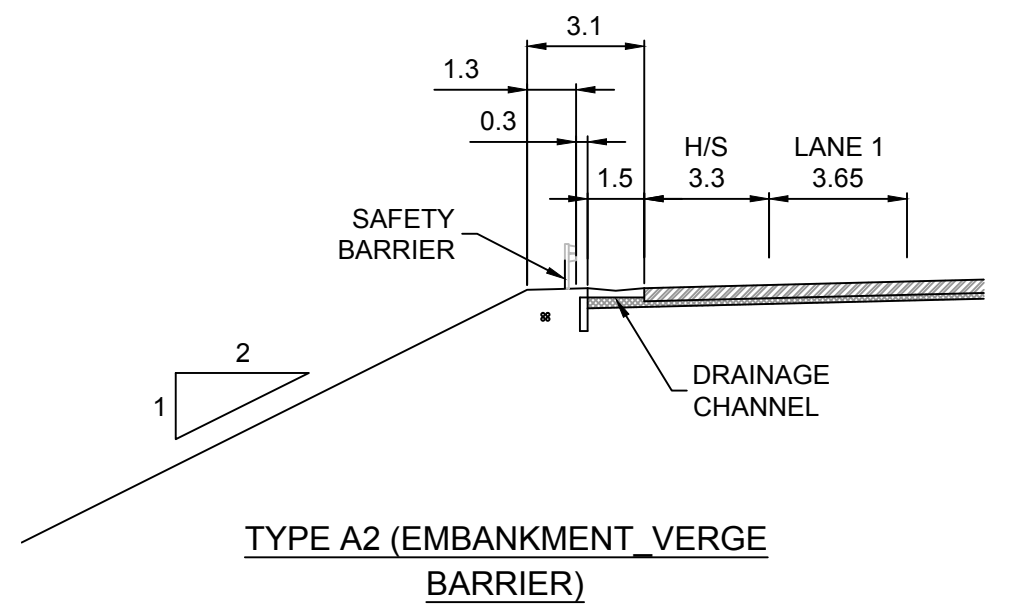
Locked in stresses in precast prestressed beams to be considered during demolition.

P01.2	---	First Issue	---	---	---
Rev.	Date	Description	By	Chk'd	App'd

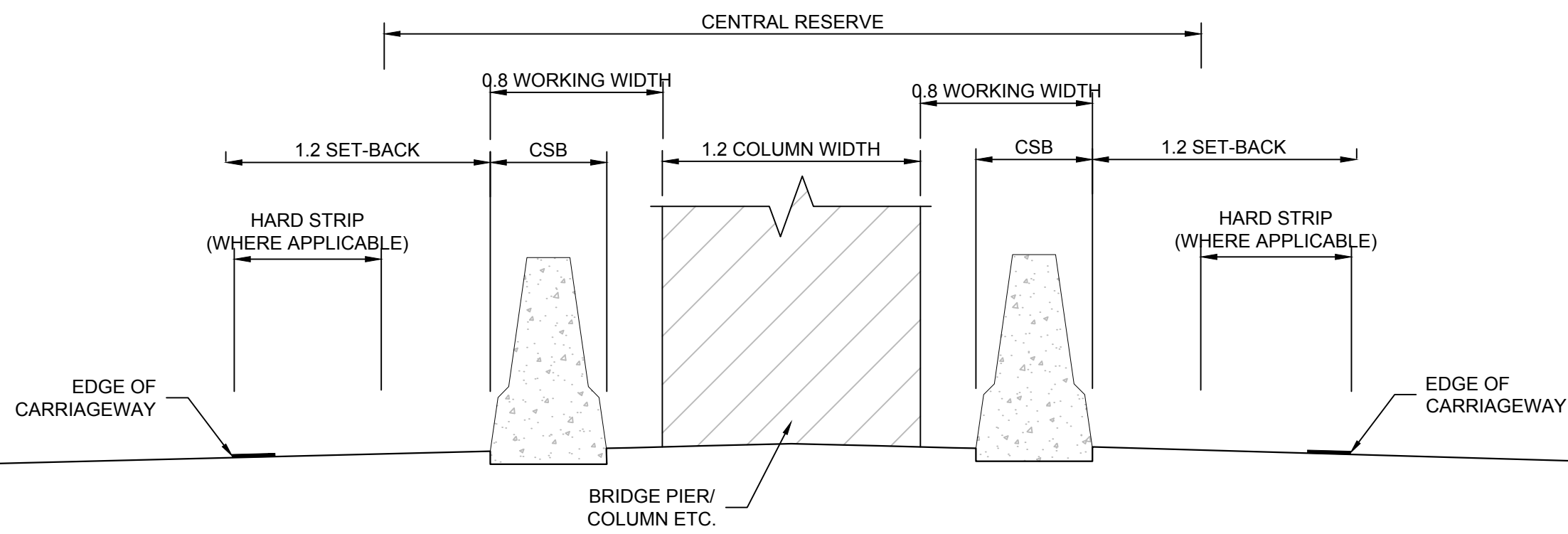
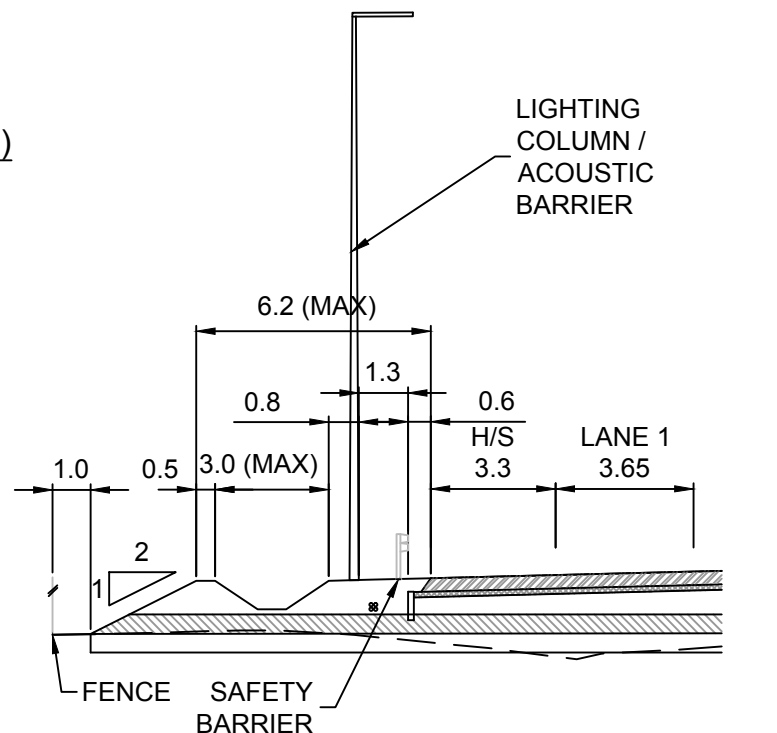
Drawing Status		Suitability	Project Title							
			M4 CORRIDOR AROUND NEWPORT							
Project Team			Drawing Title							
			FIGURE 2.14 NORTH ROW OVERBRIDGE GENERAL ARRANGEMENT SKETCH							
Client			Scale	Designed / Drawn	Checked	Approved	Authorised			
			1:1	---	---	---	---			
			Original Size	Date	Date	Date	Date			
			A1	---	---	---	---			
 Llywodraeth Cymru Welsh Government			Drawing Number		Project		Originator	Volume	Revision	
			M4CaN - DJV - SBR -						AT ISSUE	
			Z4_1760 - SK - CB - 0003							
			Location	Type	Role	Number				

DO NOT SCALE

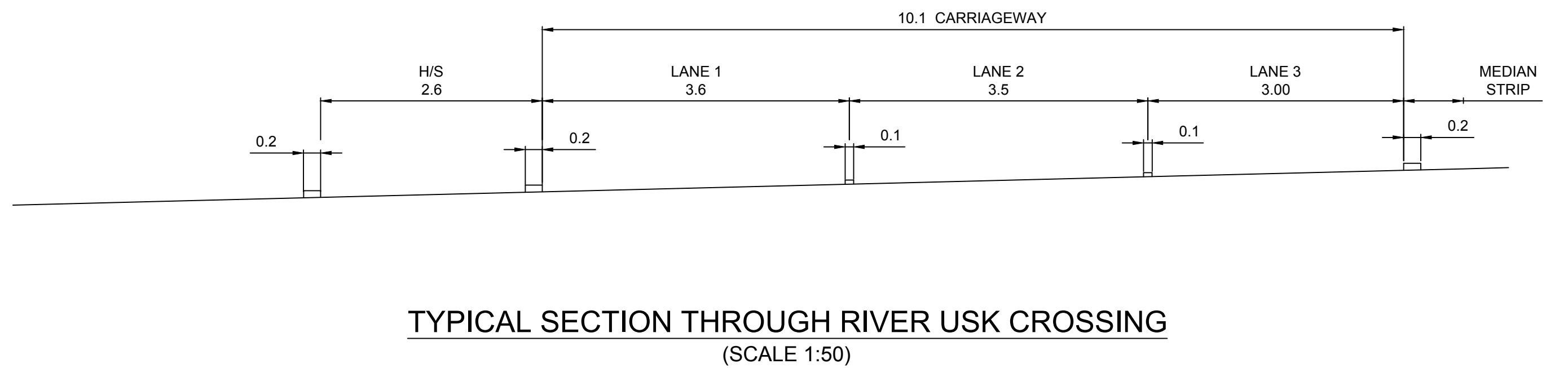
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Millimetres



TYPE B2 (LIGHTING)



DUAL CSB AT CENTRAL RESERVE
(SCALE 1:25)



TYPICAL SECTION THROUGH RIVER USK CROSSING
(SCALE 1:50)

GENERAL NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).		
Construction	None	
Maintenance / Cleaning	None	
Use	None	
Decommissioning / Demolition	None	
Rev.	Date	Description
By	Chk'd	App'd

ISSUE	02/03/16	FINAL ISSUE TO WG	JSN	BEB	KEN
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status		Project Title		Suitability		M4 CORRIDOR AROUND NEWPORT								
Project Team					Drawing Title									
					FIGURE 2.15 TYPICAL SECTIONS									
Client					Scale		Designed / Drawn		Checked		Approved		Authorised	
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					Original Size		Date		Date		Date		Date	
 Llywodraeth Cymru Welsh Government					A1		02/03/16		02/03/16		02/03/16		02/03/16	
					Drawing Number		Project		Originator		Volume		Revision	
					M4CaN - DJV - HML - ZG_GEN - DR - CH - 0001								AT ISSUE	
					Location		Type		Role		Number			