

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010059

2.8 Structures Engineering Drawings and Sections

Regulations 5(2)(o), 5(2)(p) and 6(2)

Planning Act 2008

Infrastructure Planning (Examination Procedure) Rules 2010

Volume 2

April 2021

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning (Examination
Procedure) Rules 2010**

**The A1 in Northumberland: Morpeth to Ellingham
Development Consent Order 20[xx]**

STRUCTURES ENGINEERING DRAWINGS & SECTIONS

Rule Reference:	Regulations 5(2)(o), 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010059
Document Reference	2.8
Author:	A1 in Northumberland Project Team, Highways England

Version	Date	Status of Version
Rev 2	April 2021	Deadline 5

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1 INTRODUCTION

1.1 These Structures Engineering Drawings and Sections (these “Plans”) relate to an application made by Highways England (the “Applicant”) to the Secretary of State for Transport, via the Planning Inspectorate (the “Inspectorate”), under the Planning Act 2008 (the “2008 Act”) for a Development Consent Order (DCO). If made, the DCO would grant consent for the A1 in Northumberland: Morpeth to Ellingham (the “Scheme”).

1.2 The Scheme comprises two sections known as Part A: Morpeth to Felton (Part A) and Part B: Alnwick to Ellingham (Part B). A detailed description of the Scheme can be found in Chapter 2: The Scheme of the Environmental Statement (ES) [APP-037]. Part A and Part B were originally proposed to be the subject of separate applications for DCOs but have now been combined into a single application for a DCO in respect of the Scheme as a whole and these Plans covers the Scheme in its entirety.

1.3 These Plans comprise part of a suite of application documentation and are included in the application in compliance with Regulations 5(2)(o), 5(2)(p) and 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the “2009 Regulations”) which requires:

5(2)(o) “any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided and means of landscaping”.

5(2)(p) “any of the documents prescribed by Regulation 6 which are relevant to the particular project”

6(2) “if the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales which show, by reference to Ordnance Survey or Chart datum –

(a) The levels of the proposed works, including in particular and where relevant

(i) ground levels;

(ii) the height of every proposed bridge, viaduct, aqueduct, embankment and elevated guideway;

(iii) the depth of every proposed cutting and tunnel;

(iv) the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;

(v) the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal water or an inland waterway; and

(vi) drainage outfall details for highways;

(b) a cross section of every intended tunnel and any altered gradient of a carriageway or a way forming part of a guided transport system on either side of every level crossing, bridge, tunnel or underpass which would carry the carriageway or way through which it would pass”

- 1.4** As these Plans are part of the application documentation, they should be read alongside and are informed by the other application documents. In particular, these Plans should be read alongside Schedule 1 of the draft DCO [**REP4-004 and 005**], the Engineering Section Drawings [**APP-011**] and the Works Plans [**APP-007**].

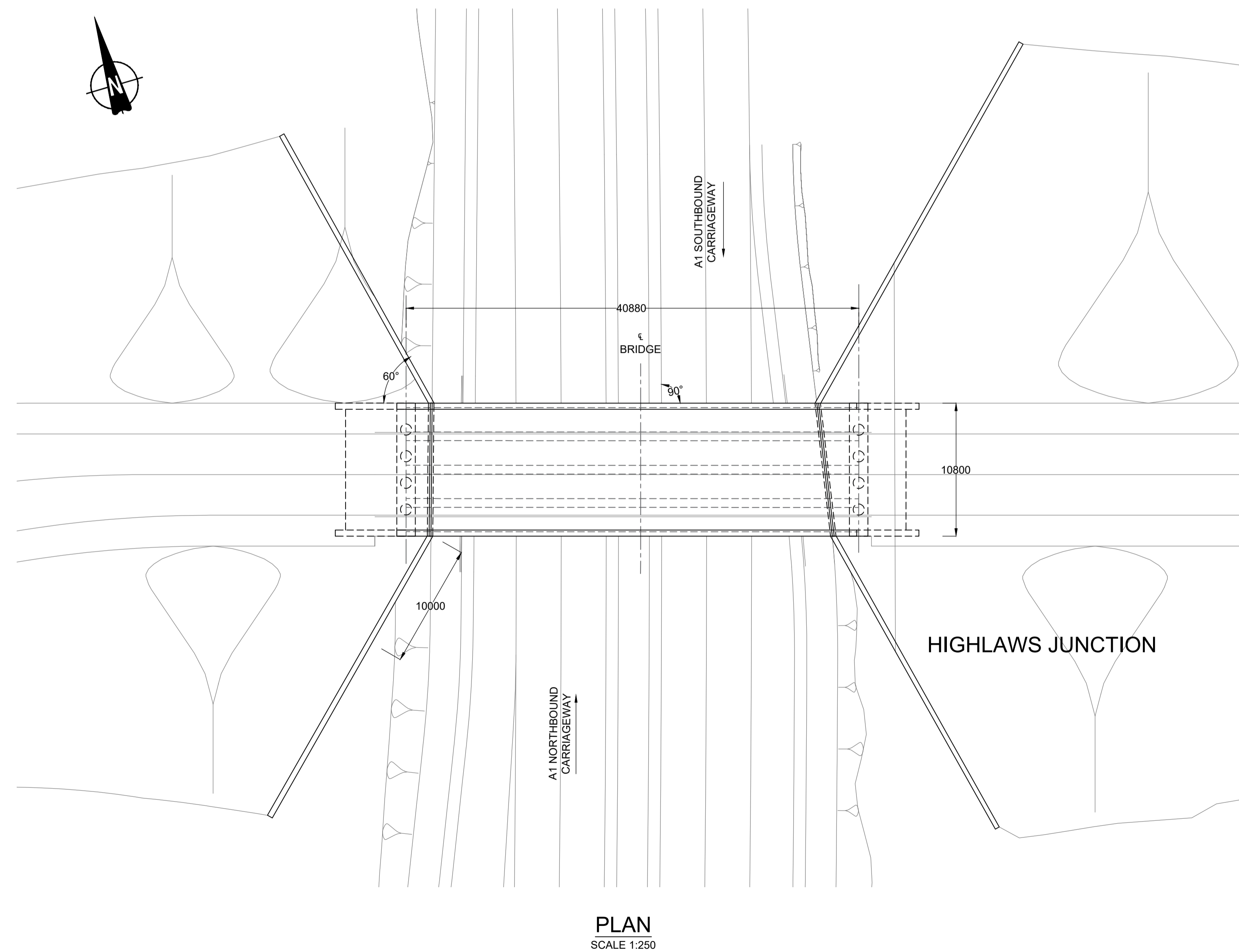
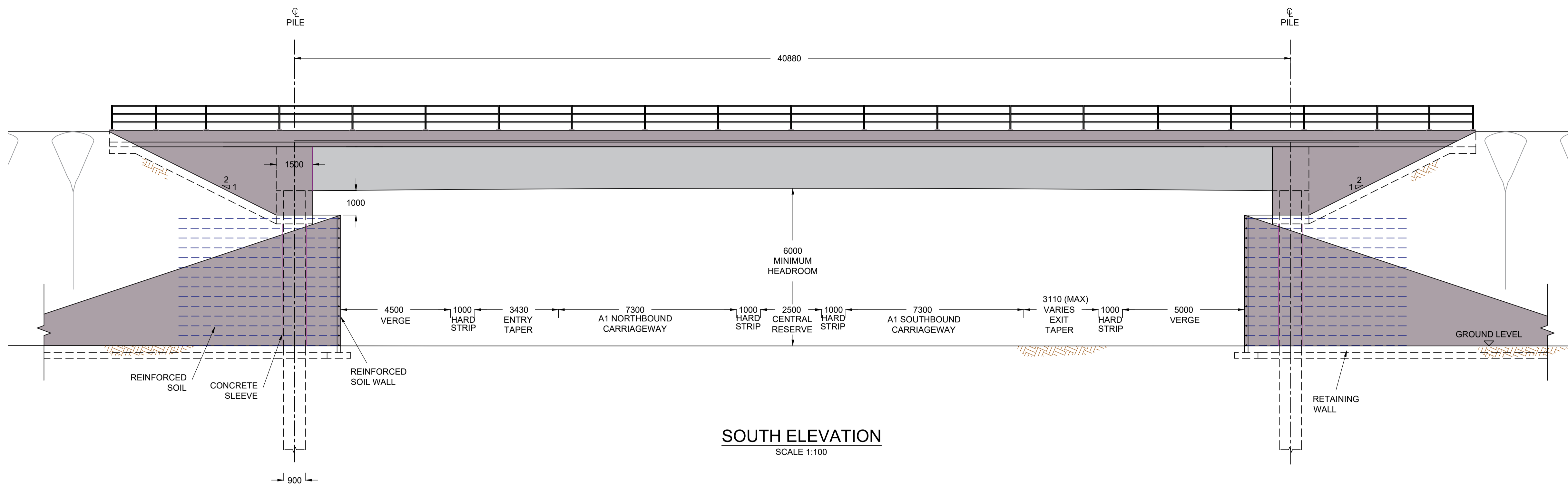
2 SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT

Drawing Title	Drawing Number	Revision
STRUCTURES ENGINEERING DRAWINGS AND SECTIONS HIGHLAWS JUNCTION – CH.12270 SHEET 1 of 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)	HE551459-WSP-HGN-M2F-DR-CH-1992	0
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STRUCTURES ENGINEERING DRAWINGS AND SECTIONS CAUSEY PARK OVERBRIDGE – CH 17680 SHEET 3 of 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)	HE551459-WSP-HGN-M2F-DR-CH-1994	0
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STRUCTURES ENGINEERING DRAWINGS AND SECTIONS PARKWOOD SUBWAY – CH23100 SHEET 6 of 2027REGULATIONS 5(2)(o), 5(2)(p) & 6(2)	HE551459-WSP-HGN-M2F-DR-CH-1997	0
STRUCTURES ENGINEERING DRAWINGS & SECTIONS WEST COTTING BURN CULVERT (1.4) – CH.10800 SHEET 07 OF 27 (Regulations 5(2)(o), 5(2)(p) & 6(2)	HE551459-WSP-HGN-M2F-DR-CH-1998	0
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STRUCTURES ENGINEERING DRAWINGS & SECTIONS SOUTH FENROTHER BURN CULVERT BURN CULVERT (5.2) – CH.14900 SHEET 11 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)	HE551459-WSP-HGN-M2F-DR-CH-2002	0
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STRUCTURES ENGINEERING DRAWINGS AND SECTIONS LINKHALL CULVERT (26.1) – CH.59275 SHEET 24 of 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)	HE551459-WSP-SBR-A2E-DR-CB-2164	1

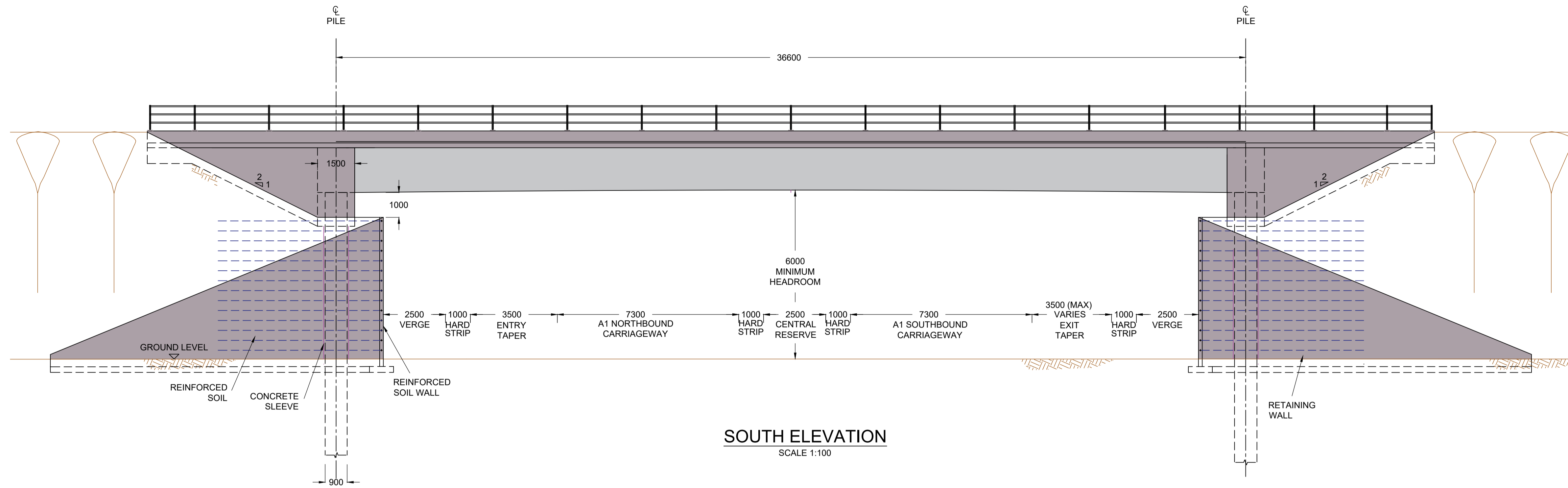
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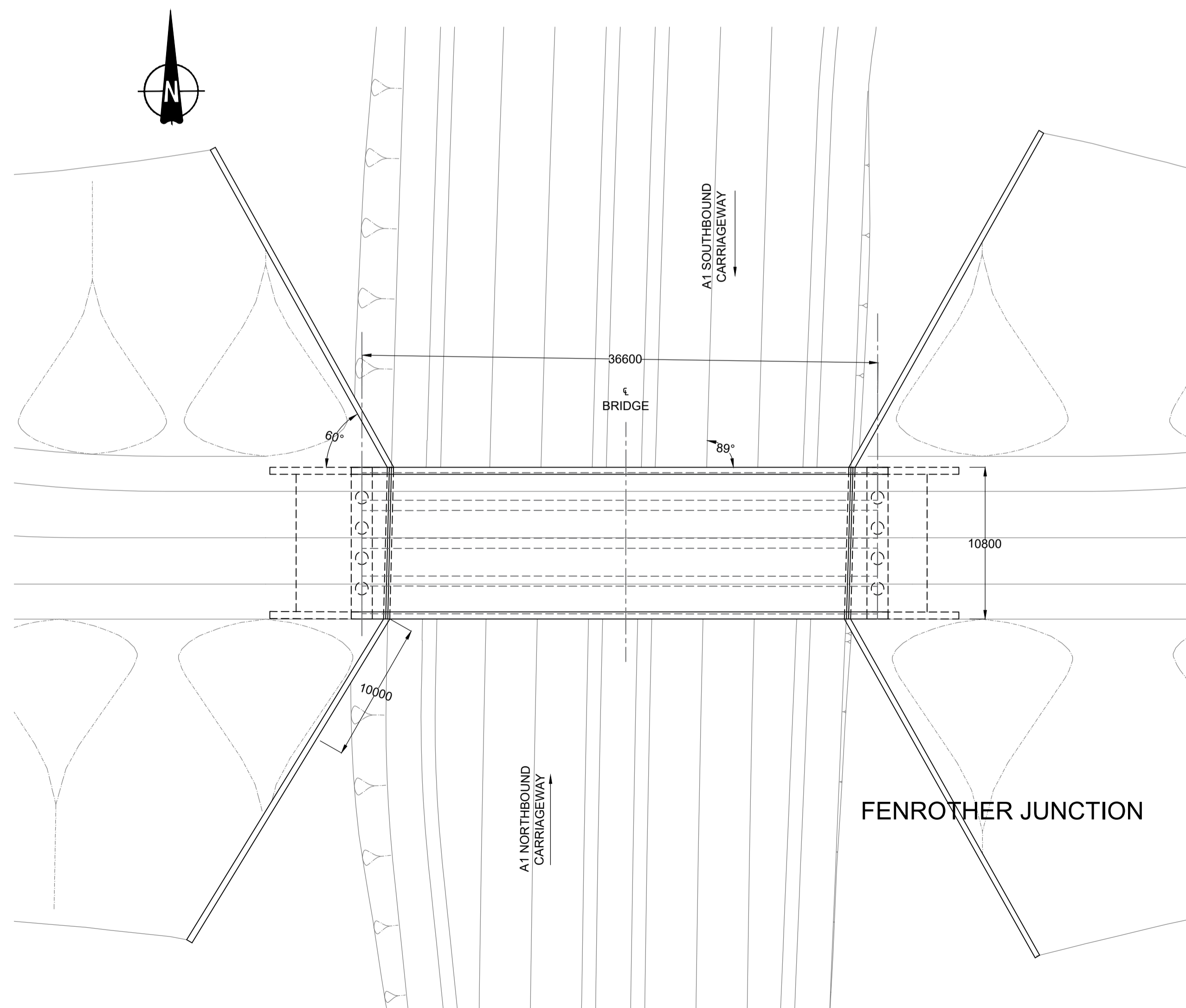
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1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
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Drawing Title						
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						0



SOUTH ELEVATION
SCALE 1:100



PLAN
SCALE 1:250

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

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Rev.	Date	Description	By	Eng' CHK	Disc' CHK	App'd

Suitability	DCO SUBMISSION	Status	S2
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PINS Reference Number	TR010041/APP/2.8
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Client	A1 in Northumberland: Morpeth to Ellingham Part A
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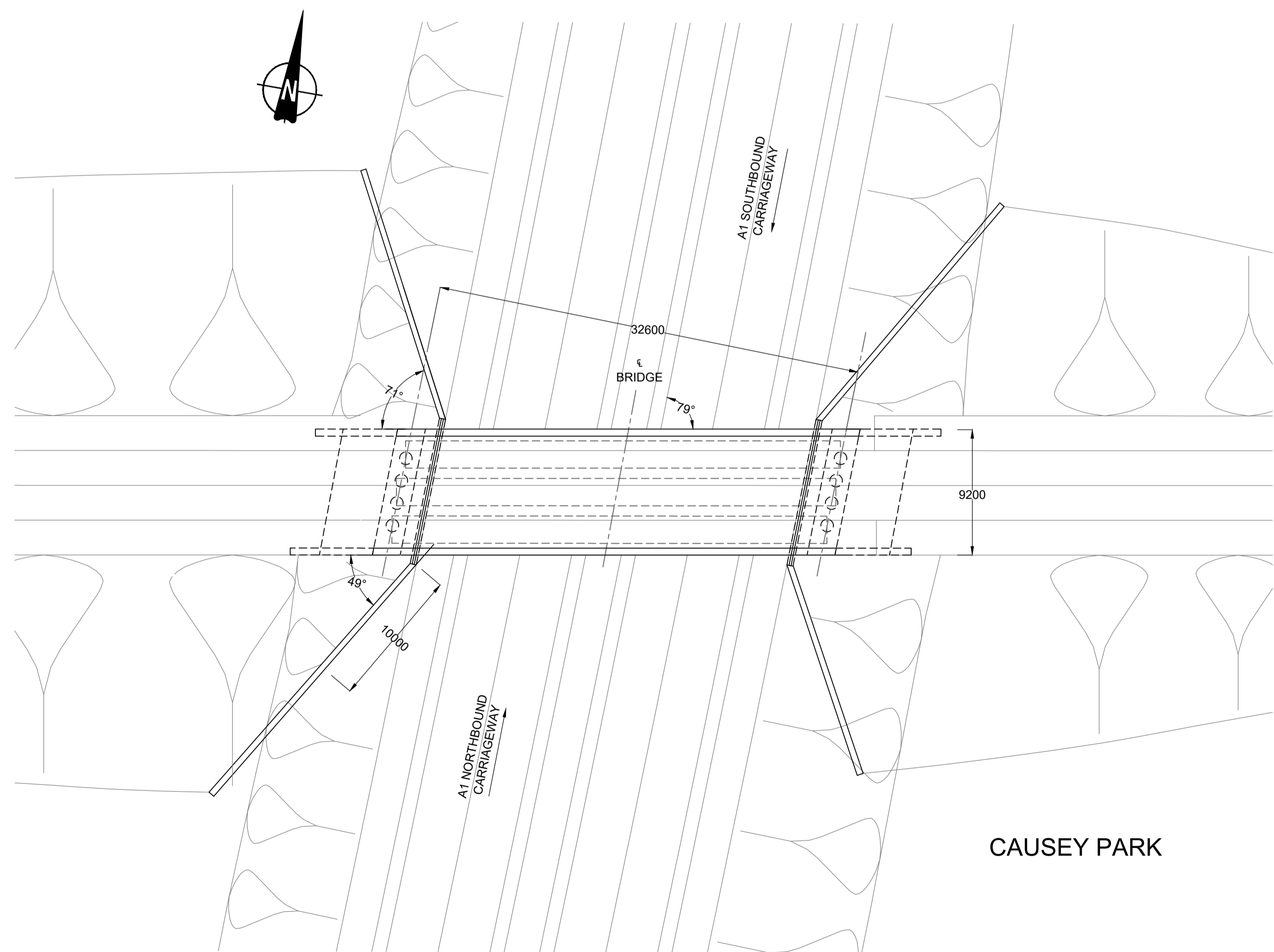
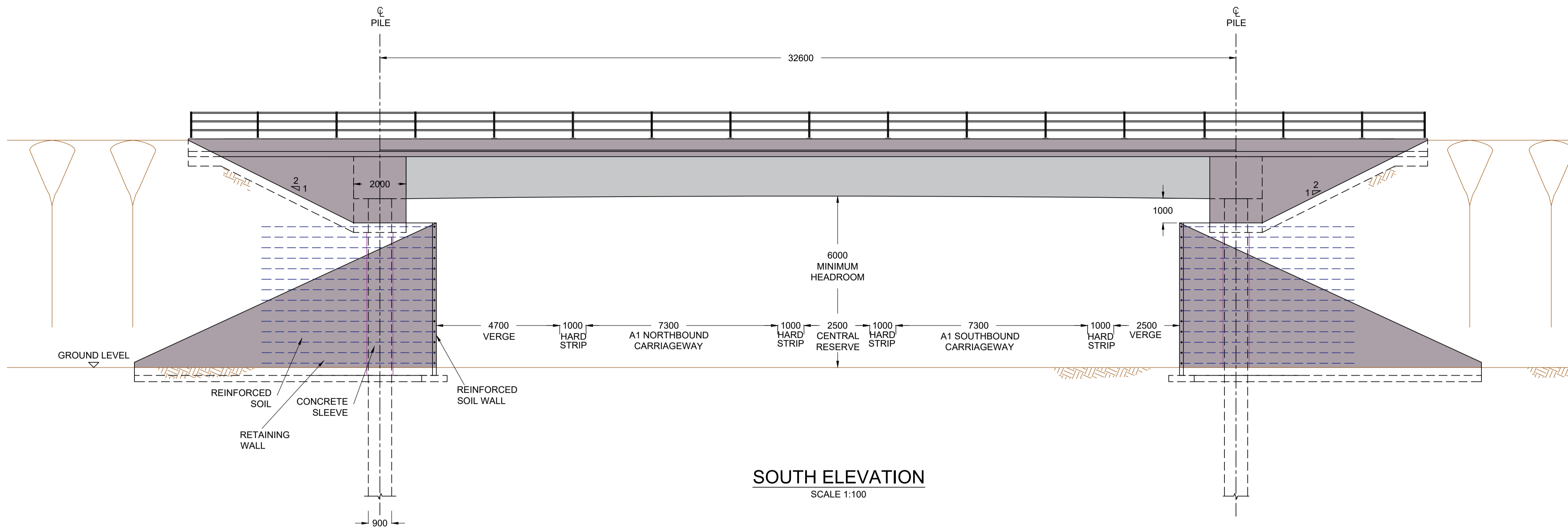
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NOTES:

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Rev.	Date	Description	By	Eng' CHK	Disc' CHK	App'd
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Suitability: DCO SUBMISSION Status: S2

PINS Reference Number: TR010041/APP/2.8



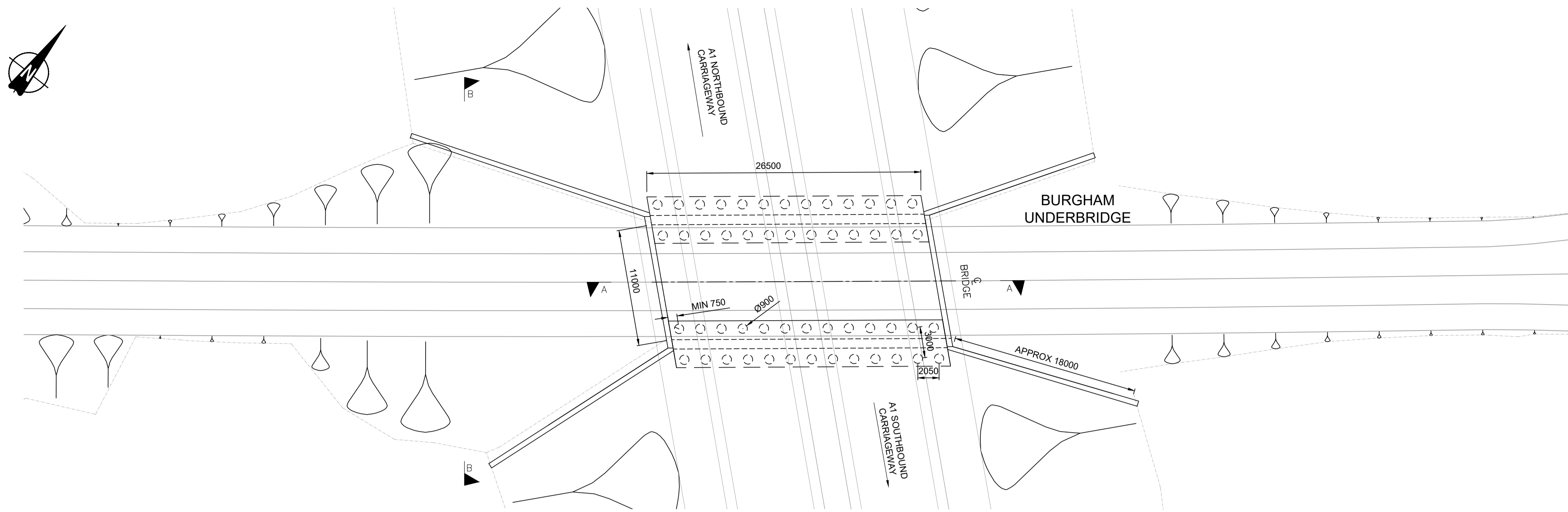
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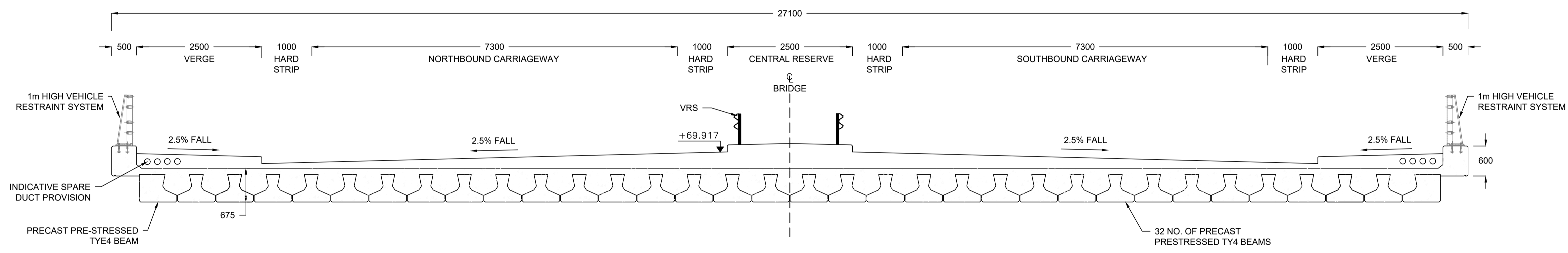
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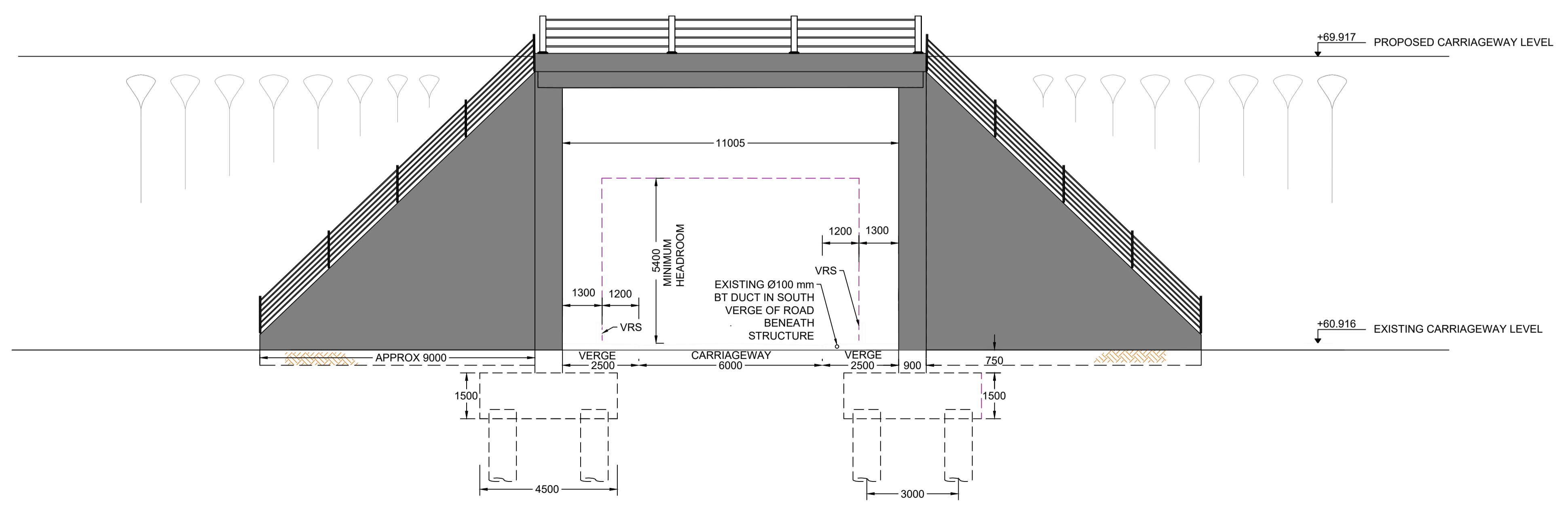
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PLAN
SCALE 1:250



CROSS SECTION A-A
SCALE 1:50



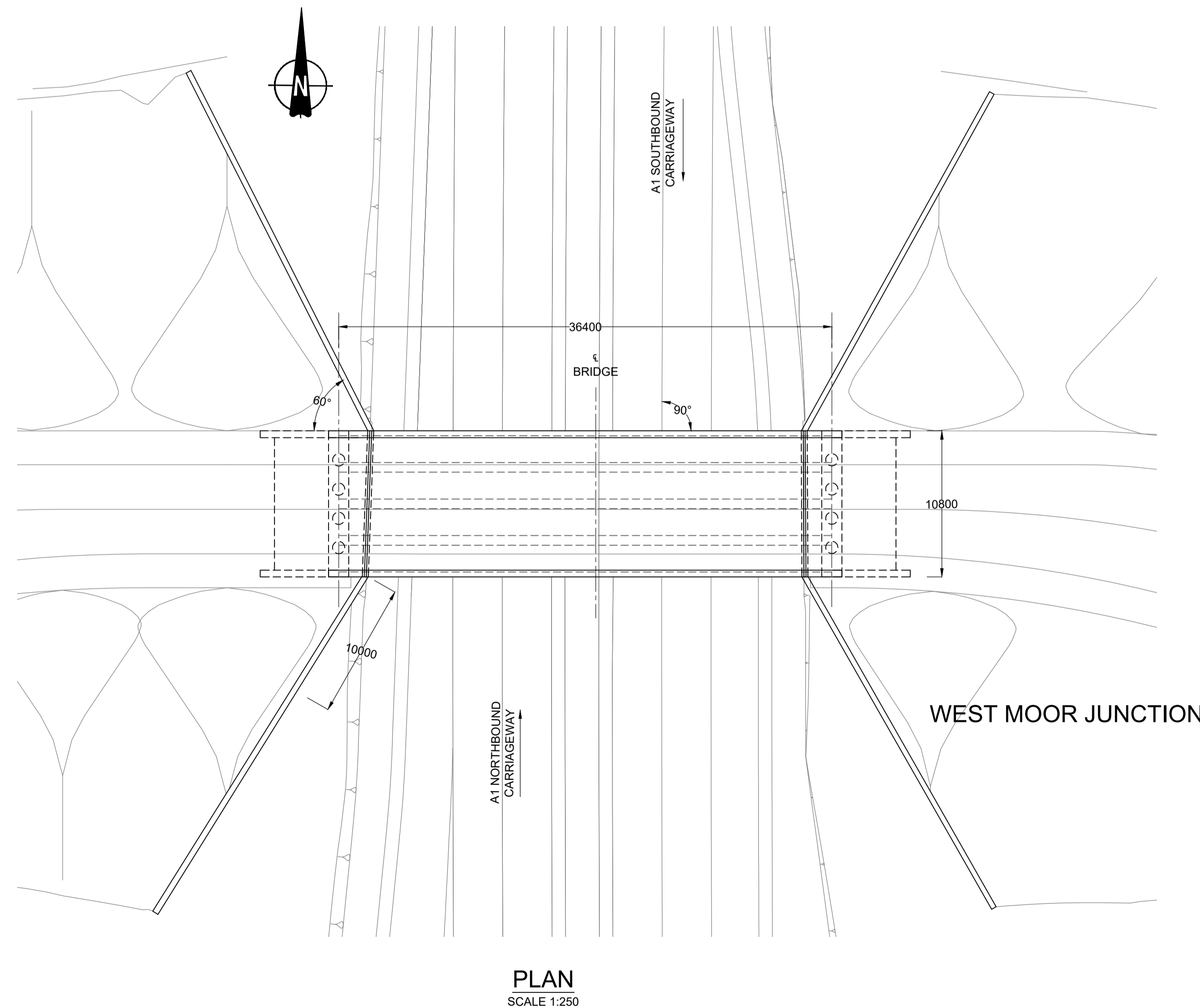
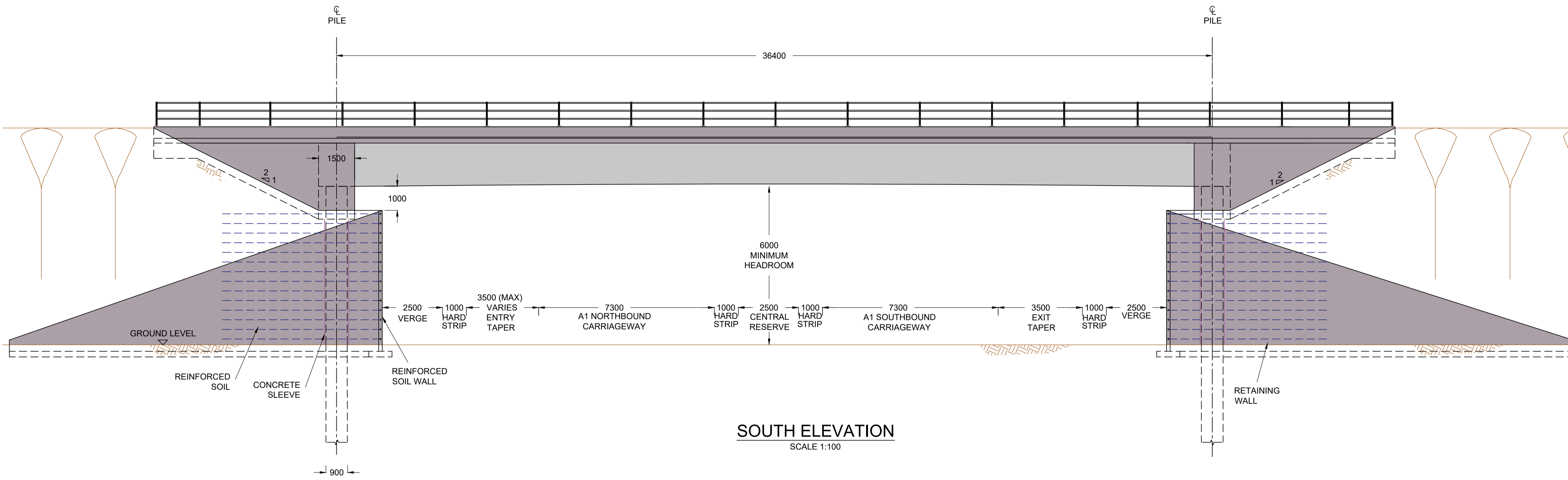
ELEVATION B-B
SCALE 1:100

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

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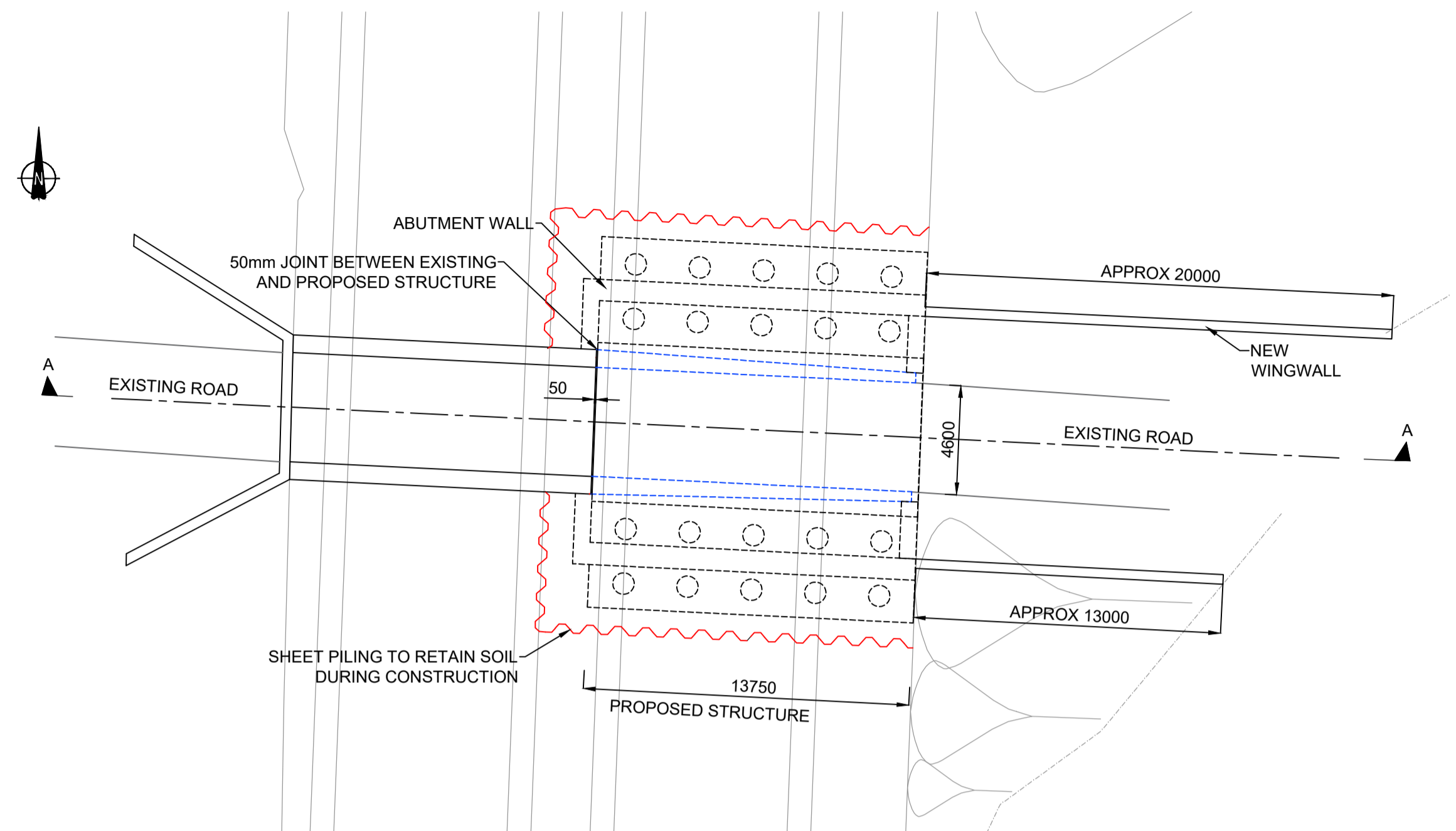
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2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.



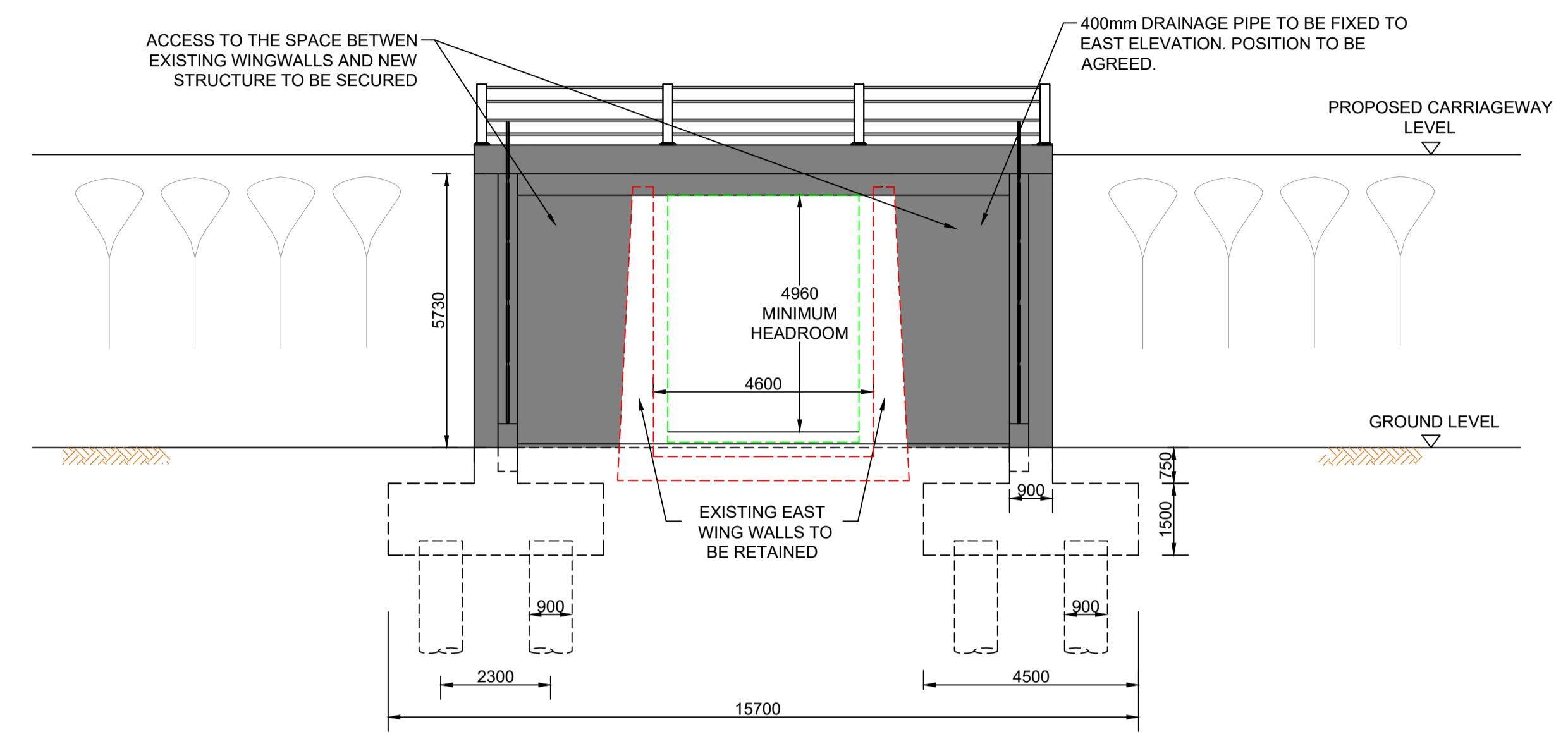
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Drawing Title						
STRUCTURES ENGINEERING DRAWINGS AND SECTIONS WEST MOOR JUNCTION - CH.21700 SHEET 05 of 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)						
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AS SHOWN	ABR	FCV	GL	HA		
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PW Stg Code						0

- NOTES:**
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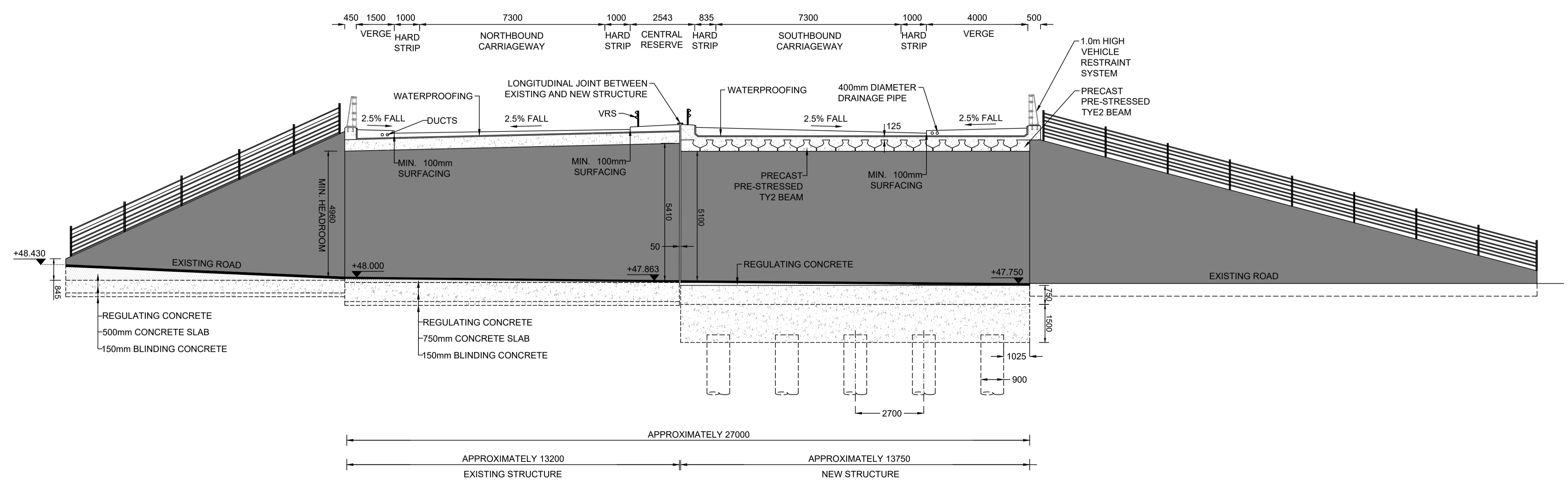
- KEY:**
- EXISTING WINGWALLS
 - HEADROOM ENVELOPE
 - HEIGHT OF EAST WINGWALLS TO BE EXTENDED UP TO THE SOFFIT LEVEL OR DEMOLISH AND REPLACED FOR ANOTHER WALLS.
 - +47.750 EXISTING/ PROPOSED LEVEL



PLAN
SCALE 1:200



EAST ELEVATION
SCALE 1:100



LONGITUDINAL SECTION A-A
SCALE 1:100

0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2

PINS Reference Number **TR010041/APP/2.8**



Project Title **A1 in Northumberland: Morpeth to Ellingham Part A**

Drawing Title **STRUCTURES ENGINEERING DRAWINGS AND SECTIONS
PARKWOOD SUBWAY - CH.23100
SHEET 06 of 27
REGULATIONS 5(2)(o), 5(2)(p) & 6(2)**

Scale	Drawn	Eng. Check	Approved	Authorised
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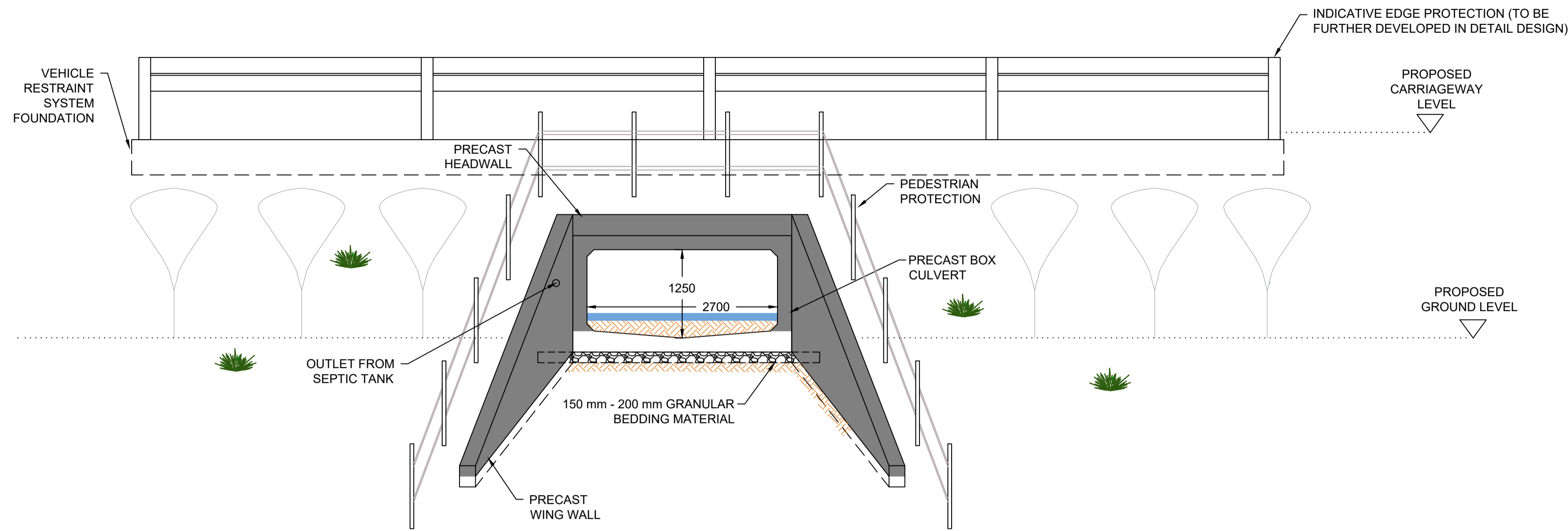
Drawing Number	Revision
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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
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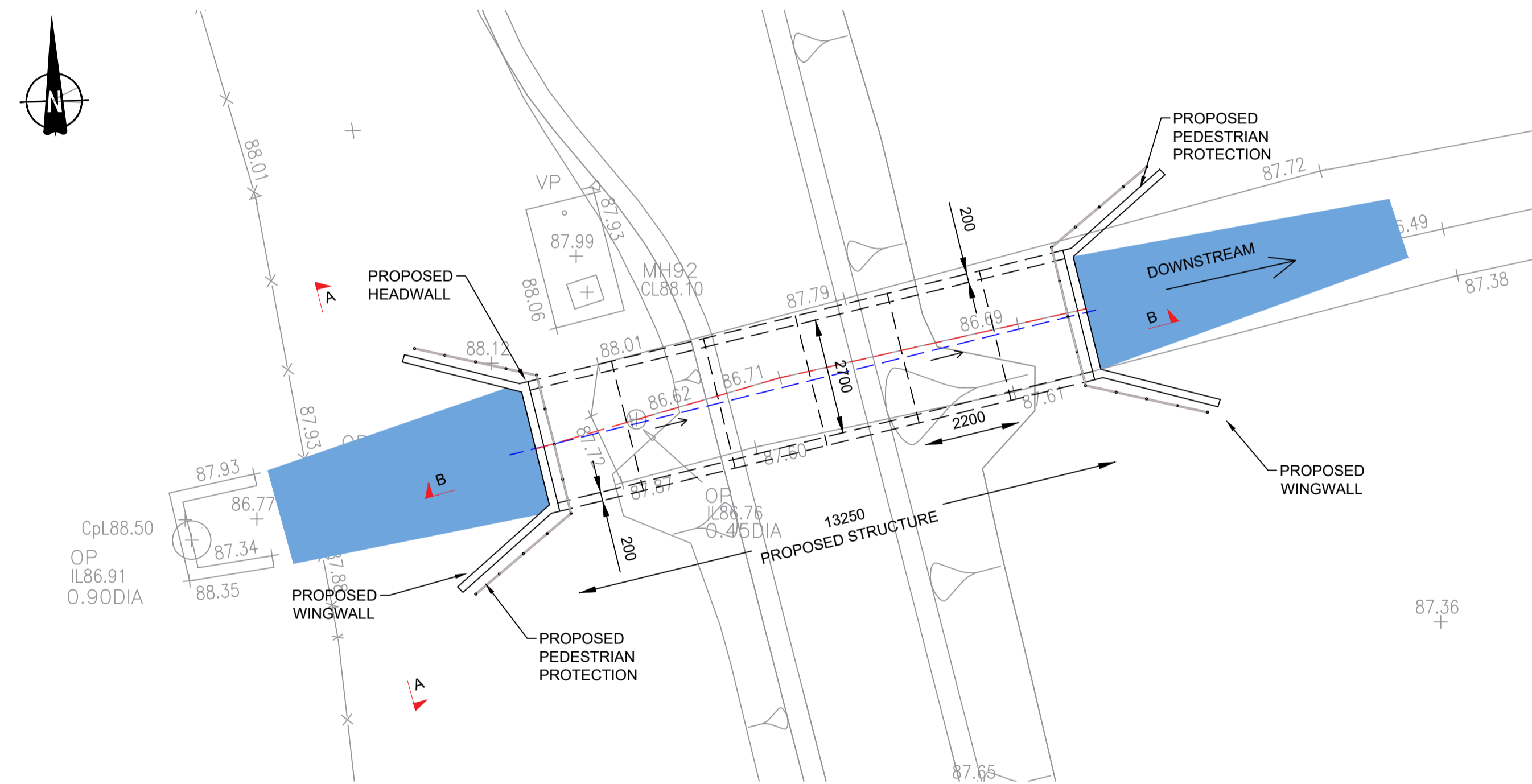
- - - PROPOSED RIVER ALIGNMENT
- - - EXISTING RIVER ALIGNMENT
- - - EXISTING GROUND LEVEL



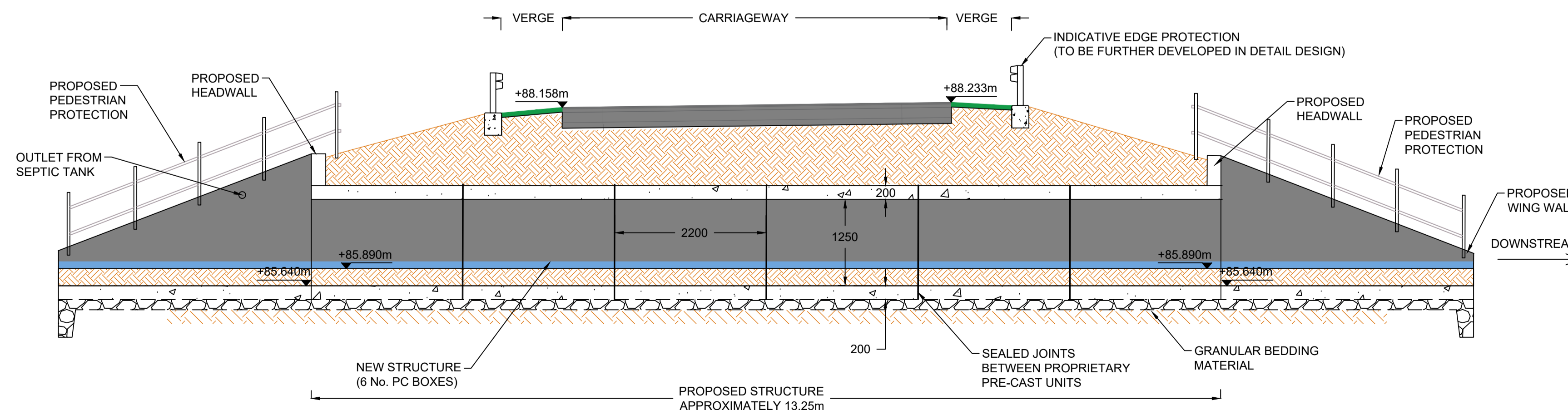
WEST ELEVATION A-A
SCALE 1:50



EXAMPLE OF PRECAST CONCRETE BOX CULVERT

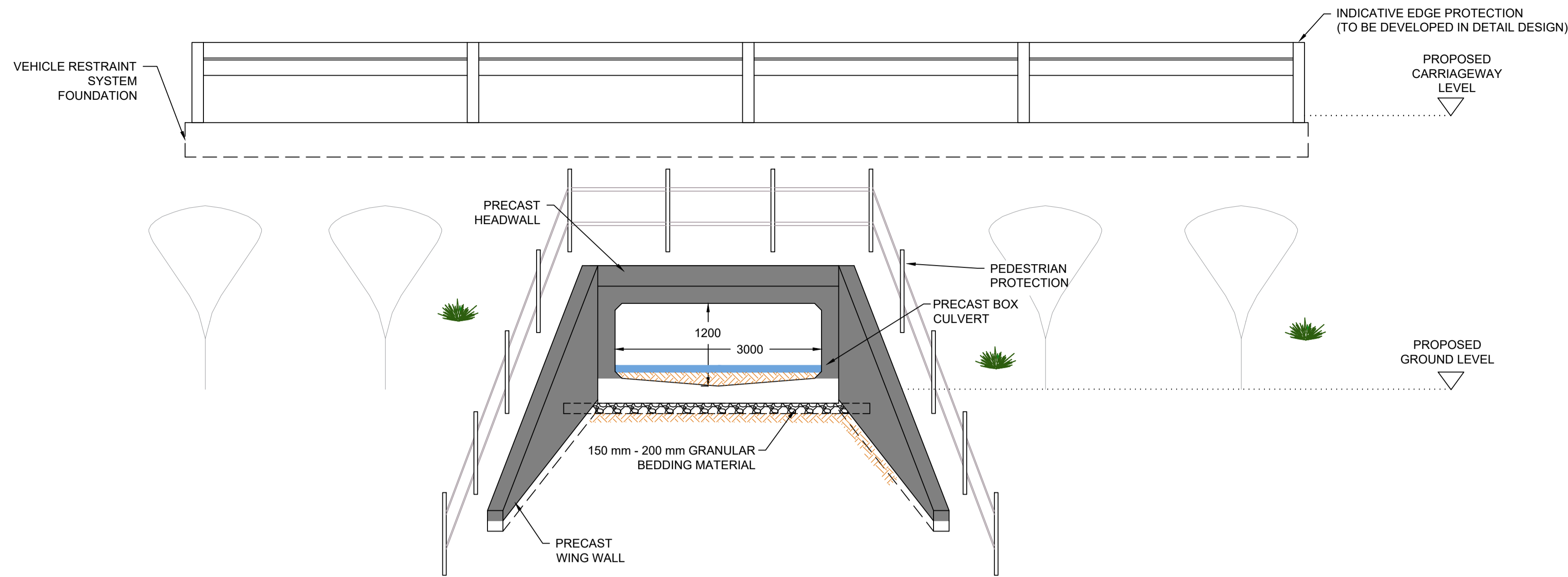


PLAN
SCALE 1:100



LONGITUDINAL SECTION B-B
SCALE 1:50

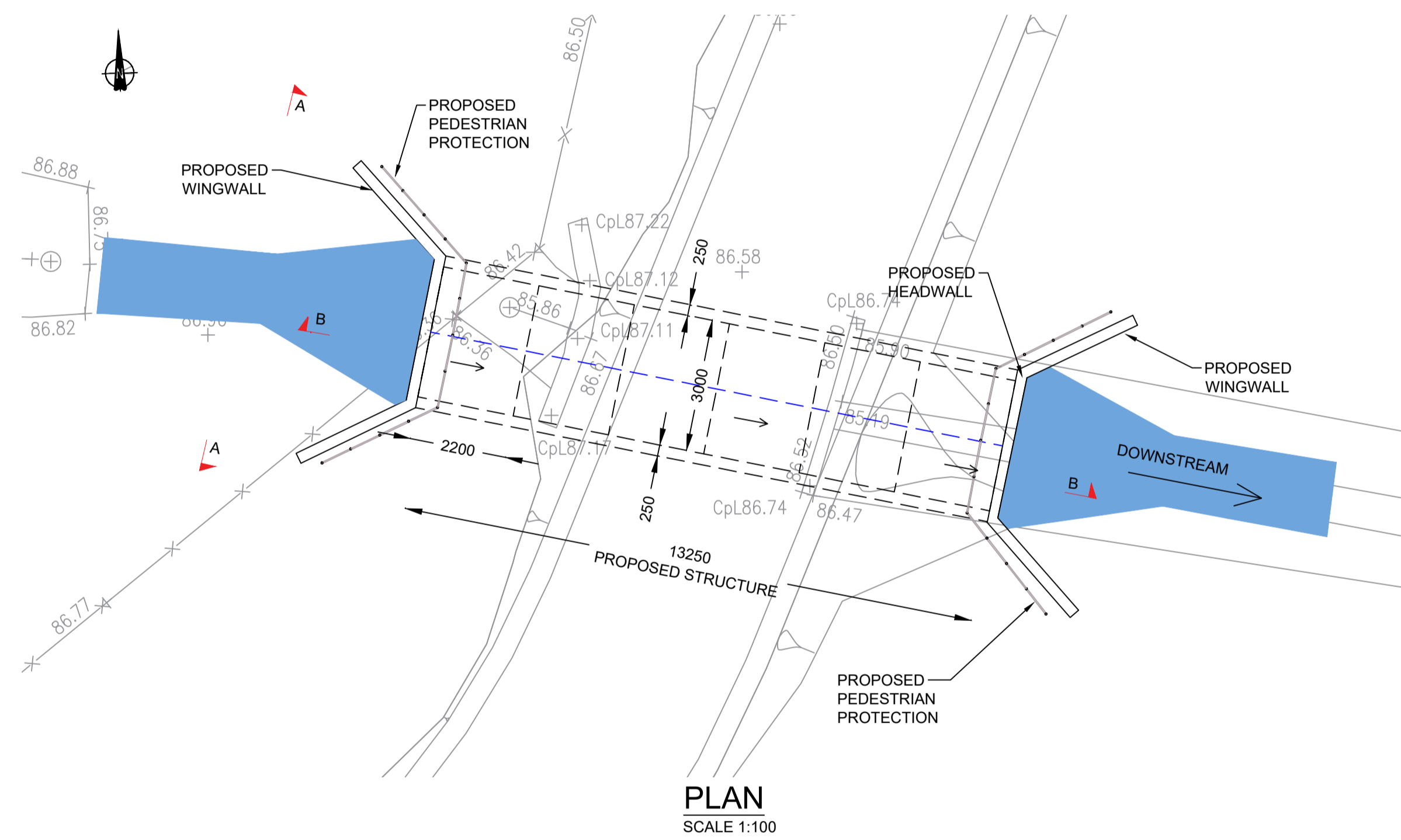
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Project Title						
A1 in Northumberland: Morpeth to Ellingham Part A						
Drawing Title						
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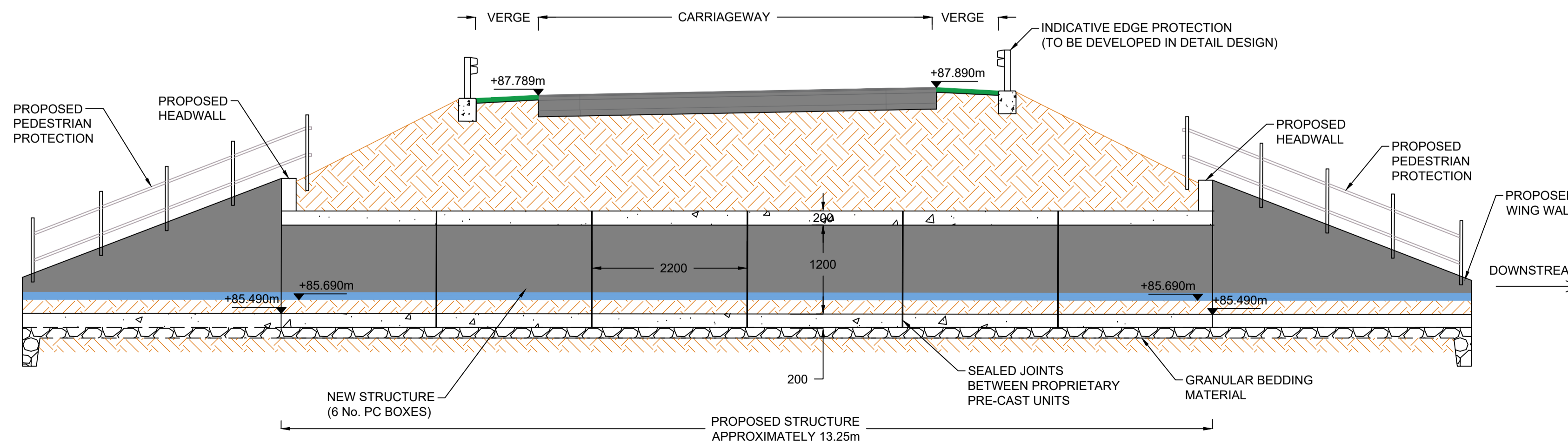
WEST ELEVATION A-A
SCALE 1:50



EXAMPLE OF PRECAST CONCRETE BOX CULVERT



PLAN
SCALE 1:100



LONGITUDINAL SECTION B-B
SCALE 1:50

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

KEY:
- - - PROPOSED RIVER ALIGNMENT

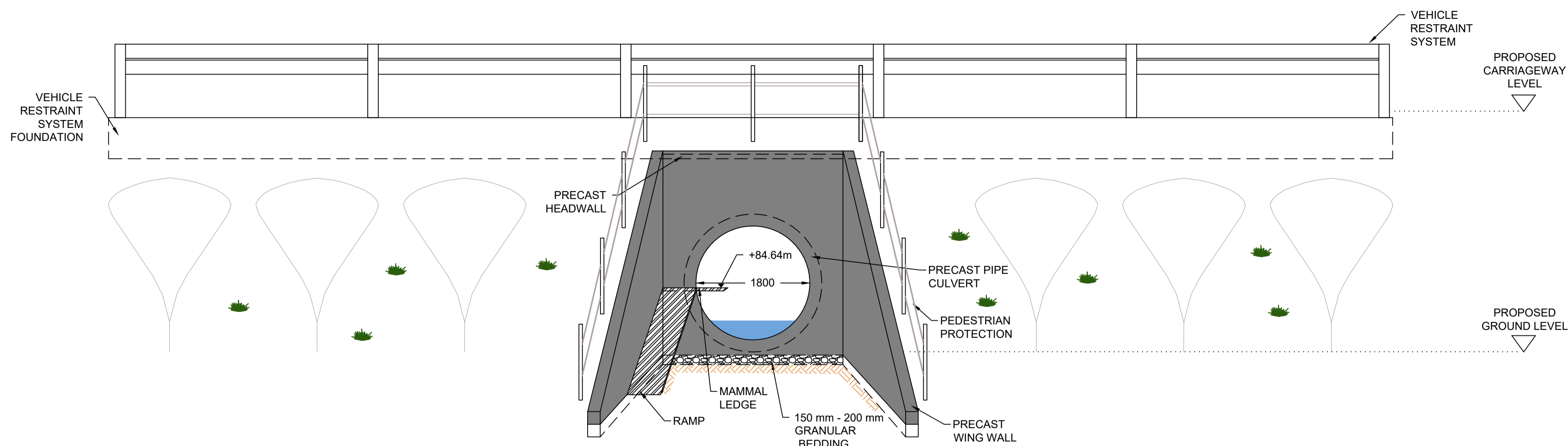
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Client						
Project Title						A1 in Northumberland: Morpeth to Ellingham Part A
Drawing Title						ENGINEERING DRAWINGS & SECTIONS EAST COTTING BURN CULVERT (1.5) - CH. 10800 SHEET 08 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	ABR	FCV	GL	HA		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-M2F-DR-CB-1999						0
						PW Sfg Code
						0

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY

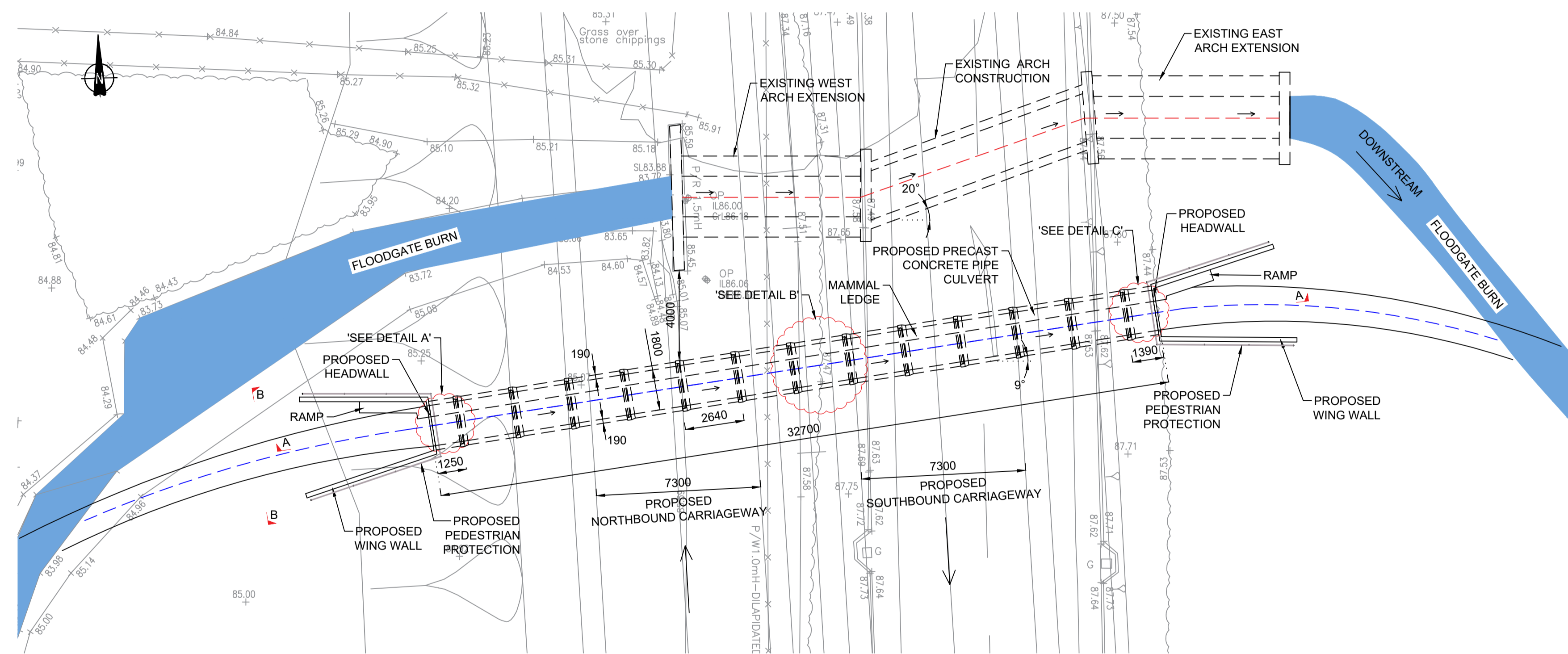
- KEY:**
- PROPOSED RIVER ALIGNMENT
 - - - EXISTING RIVER ALIGNMENT
 - - - EXISTING GROUND LEVEL



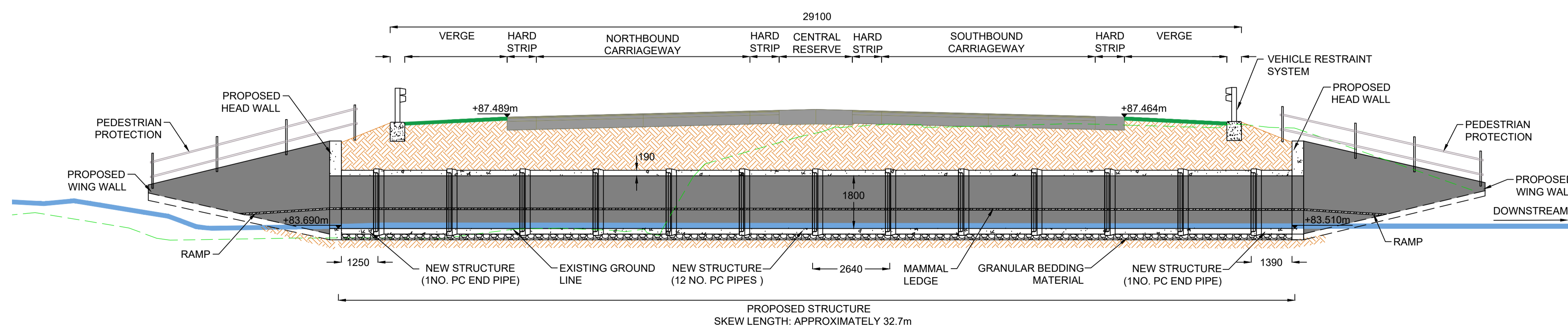
EXAMPLE OF PRECAST CONCRETE PIPE CULVERT



WEST ELEVATION B-B
SCALE 1:50

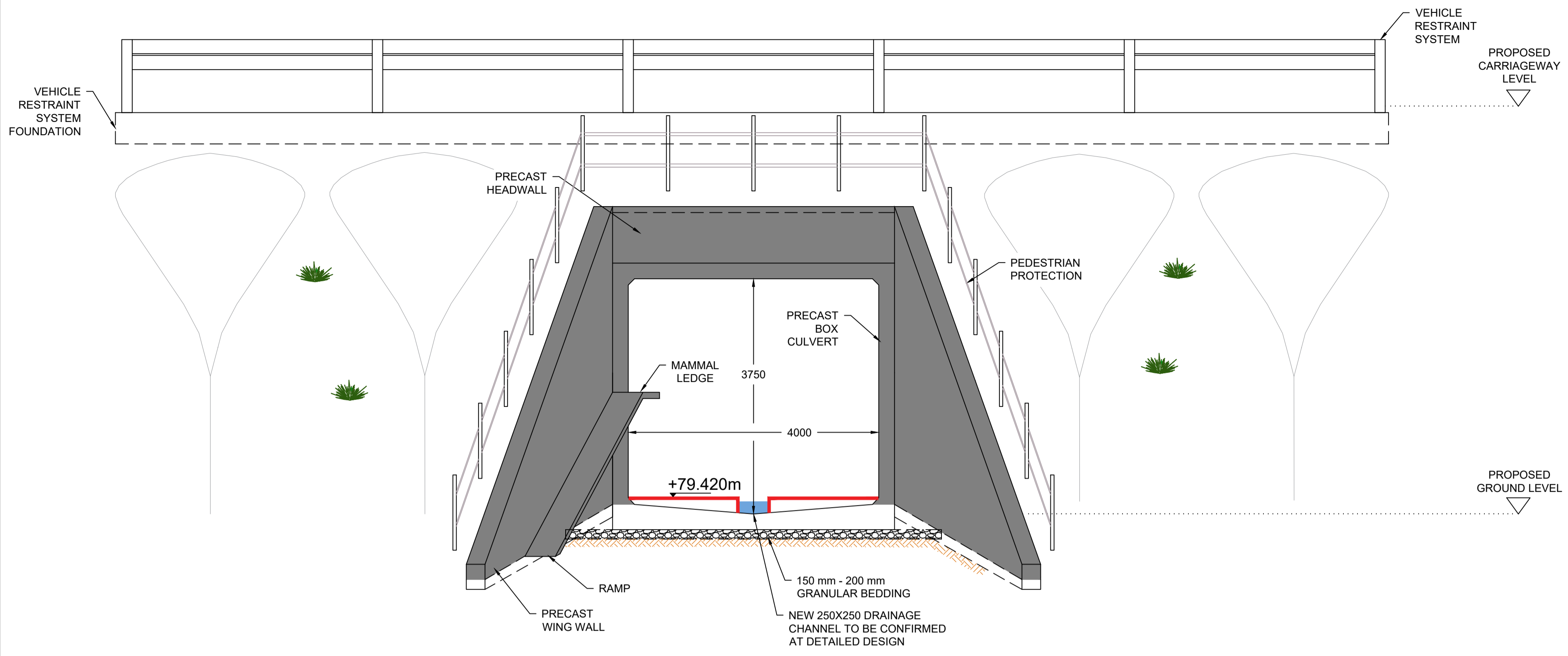


PLAN
SCALE 1:150



LONGITUDINAL SECTION A - A
SCALE 1:100

0		14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	Status
DCO SUBMISSION							S2
PINS Reference Number		TR010041/APP/2.8					
Project Title		A1 in Northumberland: Morpeth to Ellingham Part A					
STRUCTURES ENGINEERING DRAWINGS & SECTIONS PARADISE CULVERT (3) - CH.13660 SHEET 09 OF 27 REGULATIONS (5)(2)(o), 5(2)(p) & 6(2)							
Scale	AS SHOWN	Drawn	ABR	Eng. Check	FCV	Approved	GL
Original Size	A1	Date	14/04/2020	Date	14/04/2020	Date	14/04/2020
Drawing Number	HE551459-WSP-SBR-M2F-DR-CB-2000						Revision
						0	
						PW Stg Code	
						0	



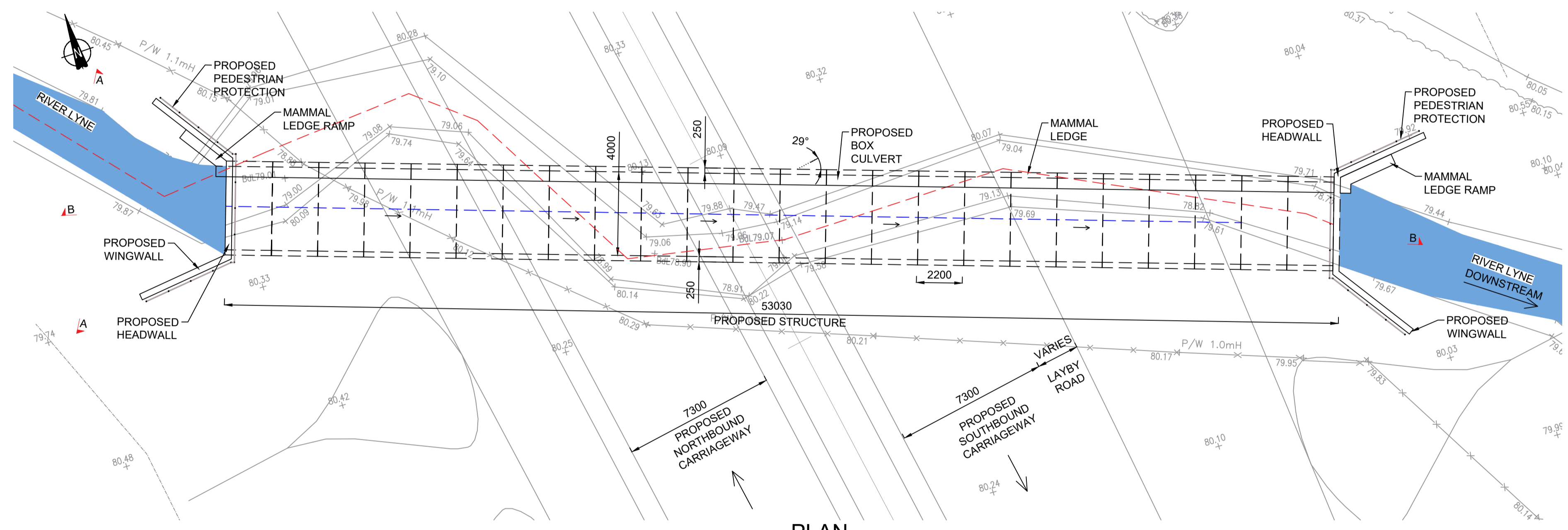
WEST ELEVATION A-A
SCALE 1:50



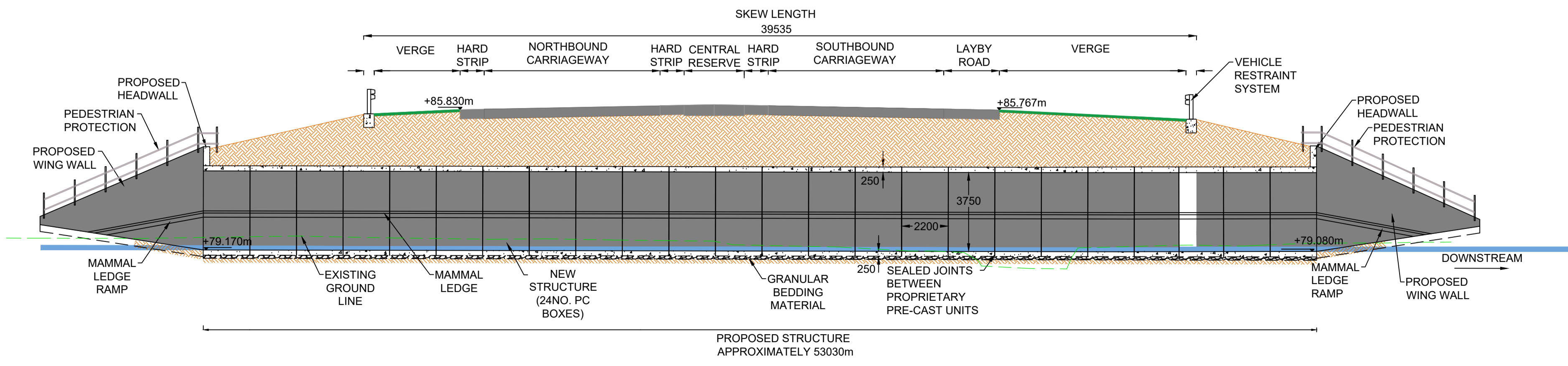
EXAMPLE OF PRECAST CONCRETE BOX CULVERT

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

- KEY:**
- PROPOSED RIVER ALIGNMENT
 - EXISTING RIVER ALIGNMENT
 - EXISTING GROUND LEVEL



PLAN
SCALE 1:150



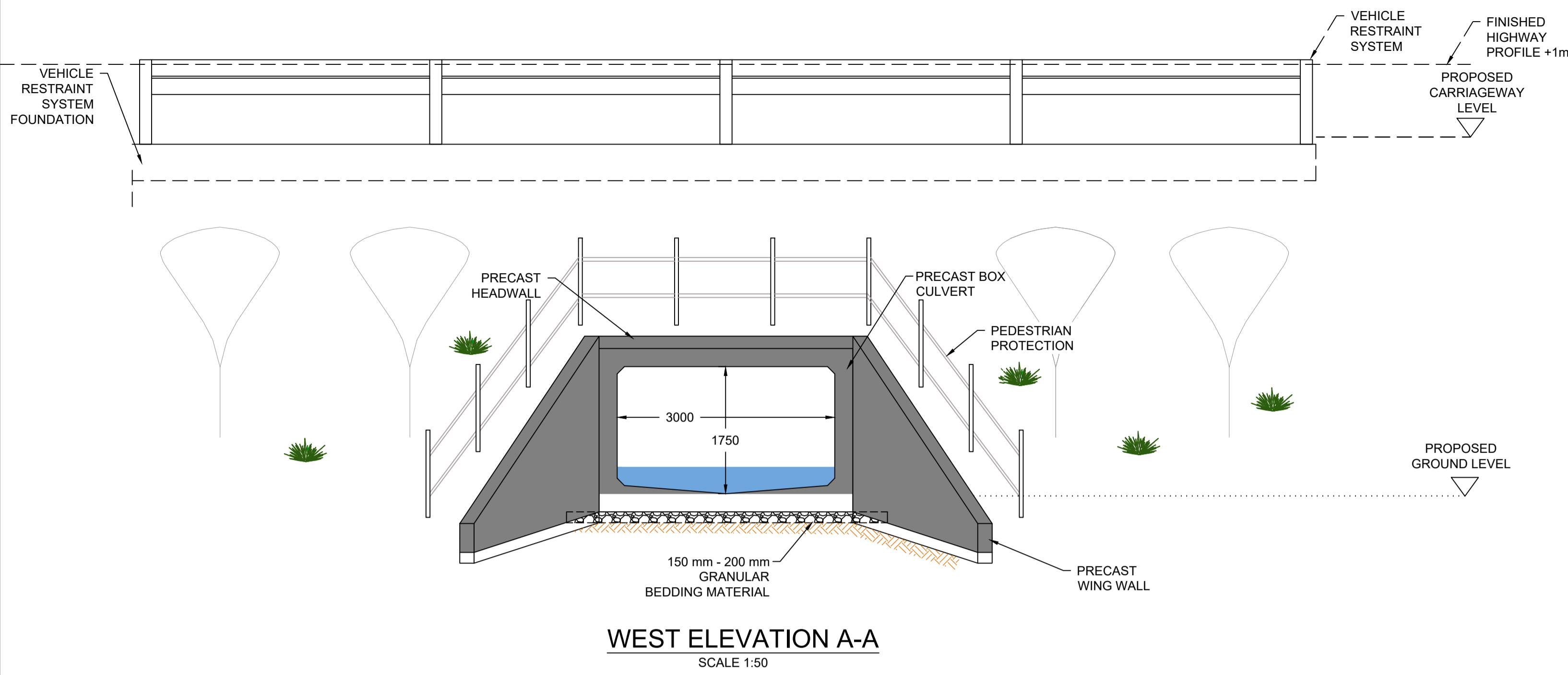
LONGITUDINAL SECTION B-B
SCALE 1:150

0		14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description		By	Eng' Chk	Disc' Chk	App'd
Suitability							Status
DCO SUBMISSION							S2
PINS Reference Number TR010041/APP/2.8							
Client 							
Project Title A1 in Northumberland: Morpeth to Ellingham Part A							
Drawing Title STRUCTURES ENGINEERING DRAWINGS & SECTIONS PRIEST BRIDGE CULVERT (4) - CH.14050 SHEET 10 OF 27 REGULATIONS - 5(2)(o), 5(2)(p) & 6(2)							
Scale	AS SHOWN	Drawn	ABR	Eng. Check	FCV	Approved	GL
Original Size	A1	Date	14/04/2020	Date	14/04/2020	Date	14/04/2020
Drawing Number HE551459-WSP-SBR-M2F-DR-CB-2001							Revision 0
							PW Slg Code 0

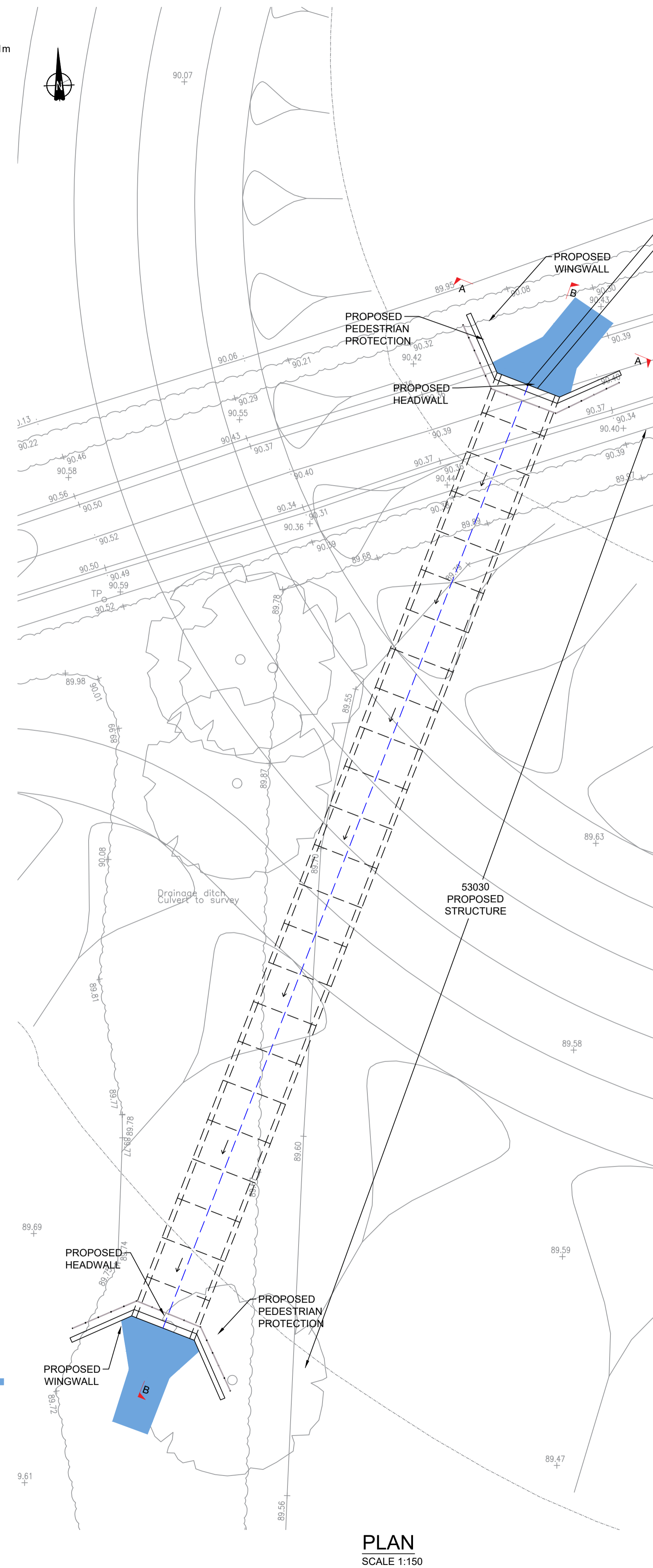
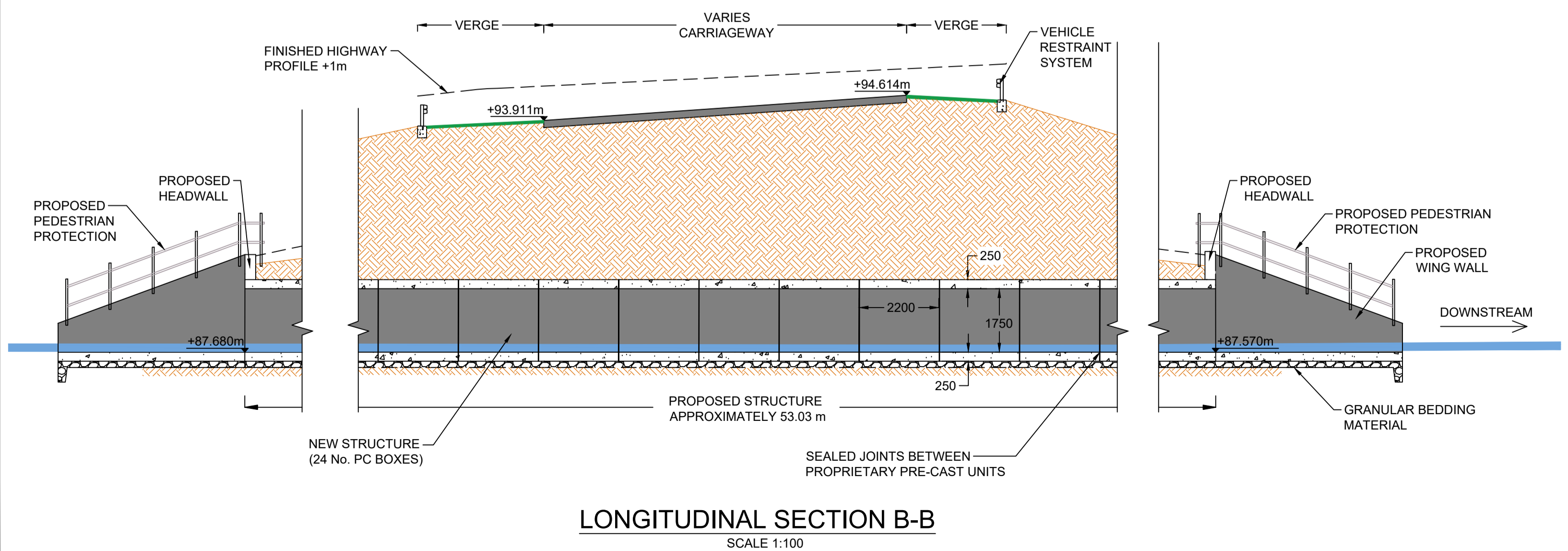
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

KEY:

- - - PROPOSED RIVER ALIGNMENT



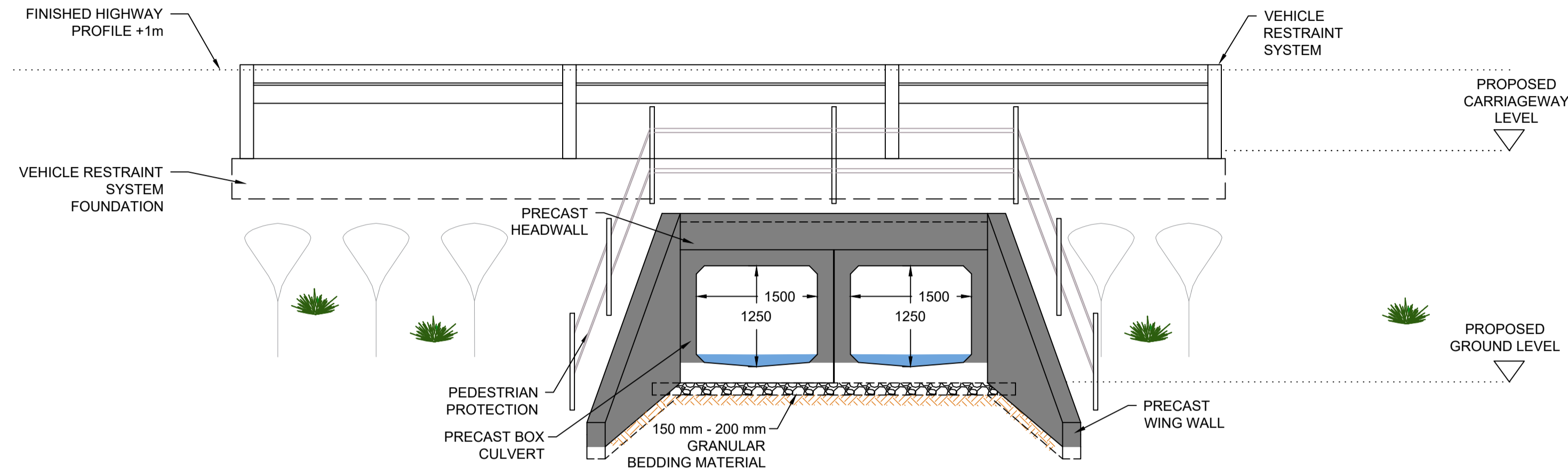
EXAMPLE OF PRECAST CONCRETE BOX CULVERT



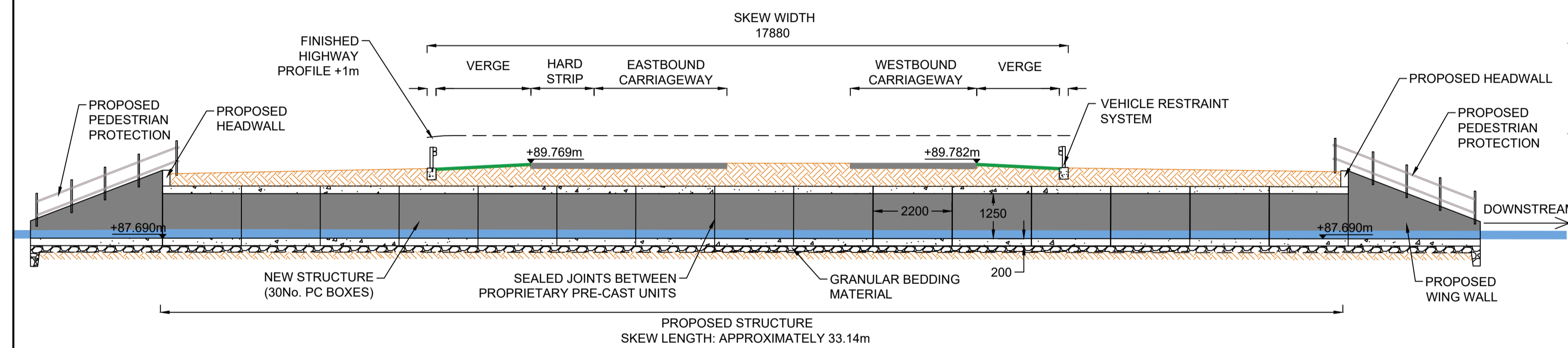
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						
TR010041/APP/2.8						
Client						
Project Title						
A1 in Northumberland: Morpeth to Ellingham Part A						
Drawing Title						
STRUCTURES ENGINEERING DRAWINGS & SECTIONS SOUTH FENROTHER BURN CULVERT (5.3) - CH. 14900 SHEET 11 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)						
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	ABR	FCV	GL	HA		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-M2F-DR-CB-2002						0
						PW Slg Code
						0

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

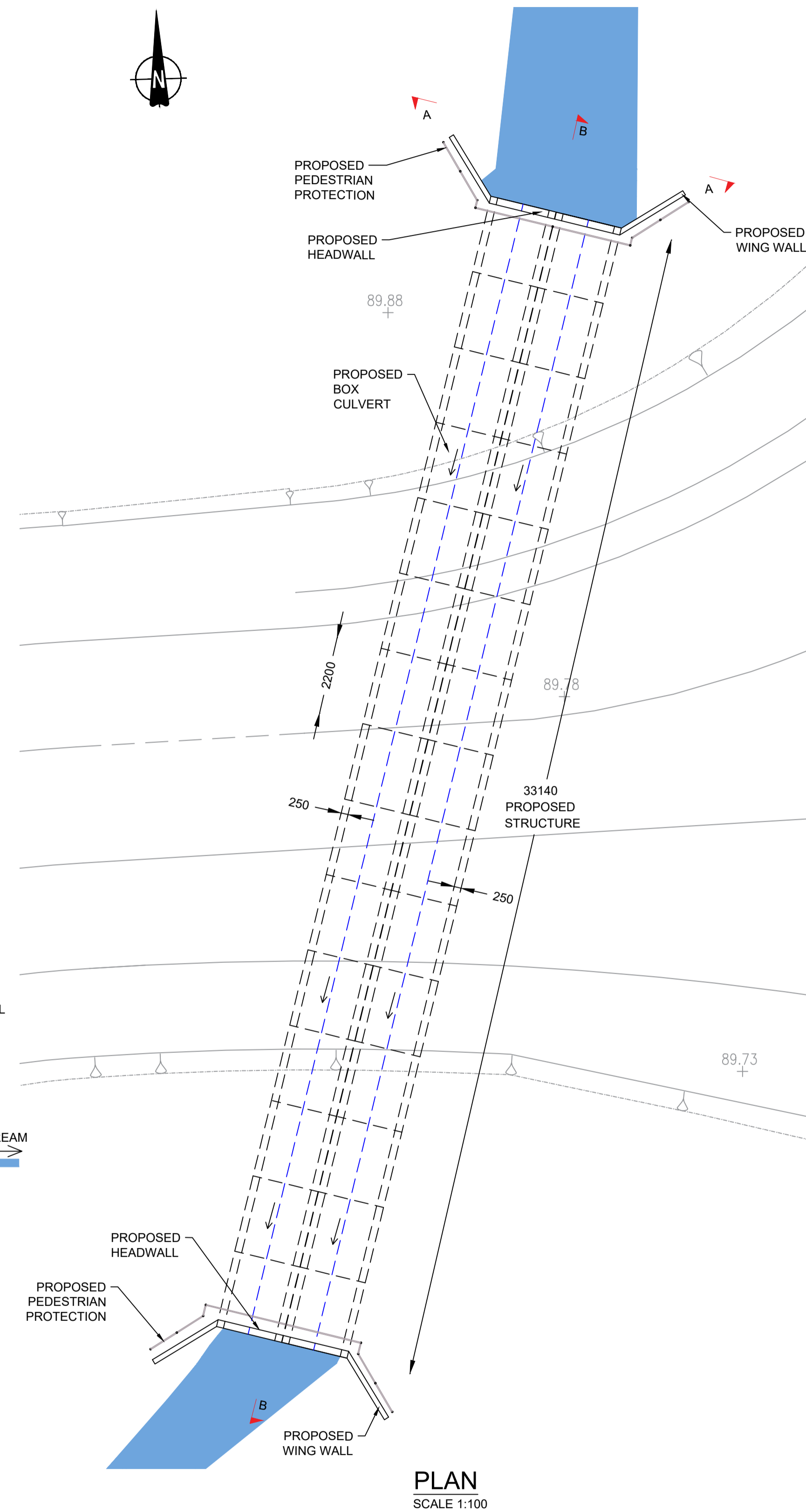
KEY:
 PROPOSED RIVER ALIGNMENT



NORTH ELEVATION A-A
SCALE 1:50



LONGITUDINAL SECTION B-B
SCALE 1:100



PLAN
SCALE 1:100

0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2

PINS Reference Number
TR010041/APP/2.8

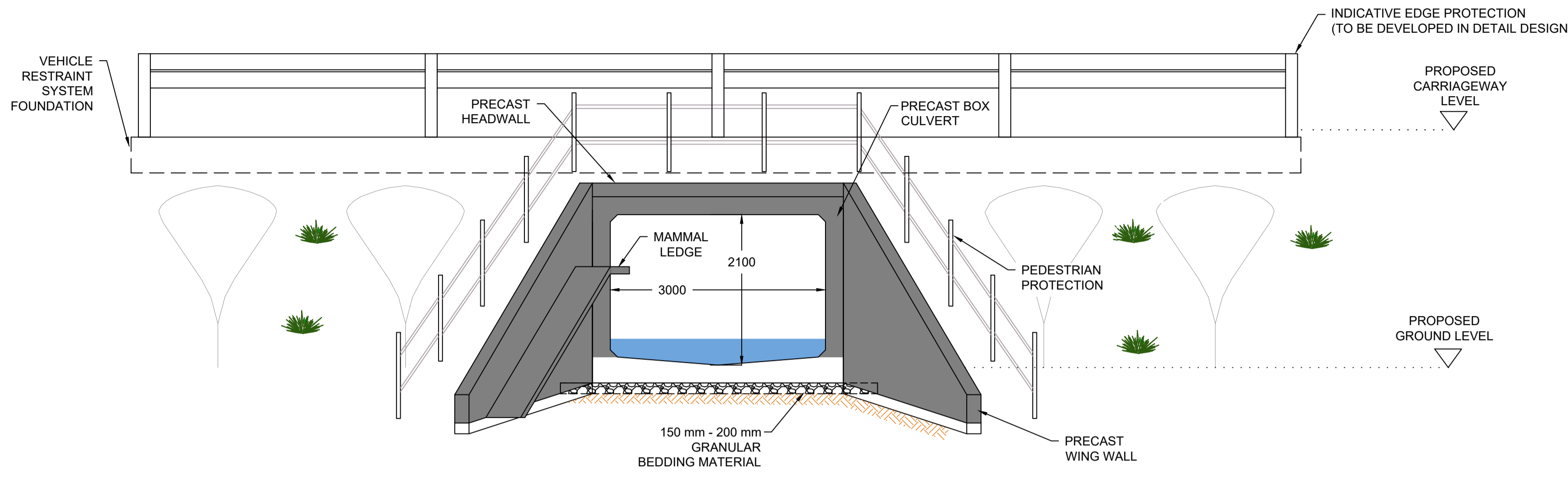


Project Title
A1 in Northumberland: Morpeth to Ellingham Part A

Drawing Title
**STRUCTURES ENGINEERING DRAWINGS & SECTIONS#
NORTH FENROTHER BURN CULVERT (5,2) - CH.15000
SHEET 12 OF 27
REGULATIONS 5(2)(o),5(2)(p) & 6(2)**

Scale	Drawn	Eng. Check	Approved	Authorised
AS SHOWN	ABR	FCV	GL	HA
Original Size	Date	Date	Date	Date
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020

Drawing Number	Revision
HE551459-WSP-SBR-M2F-DR-CB-2003	0
	PW Stg Code
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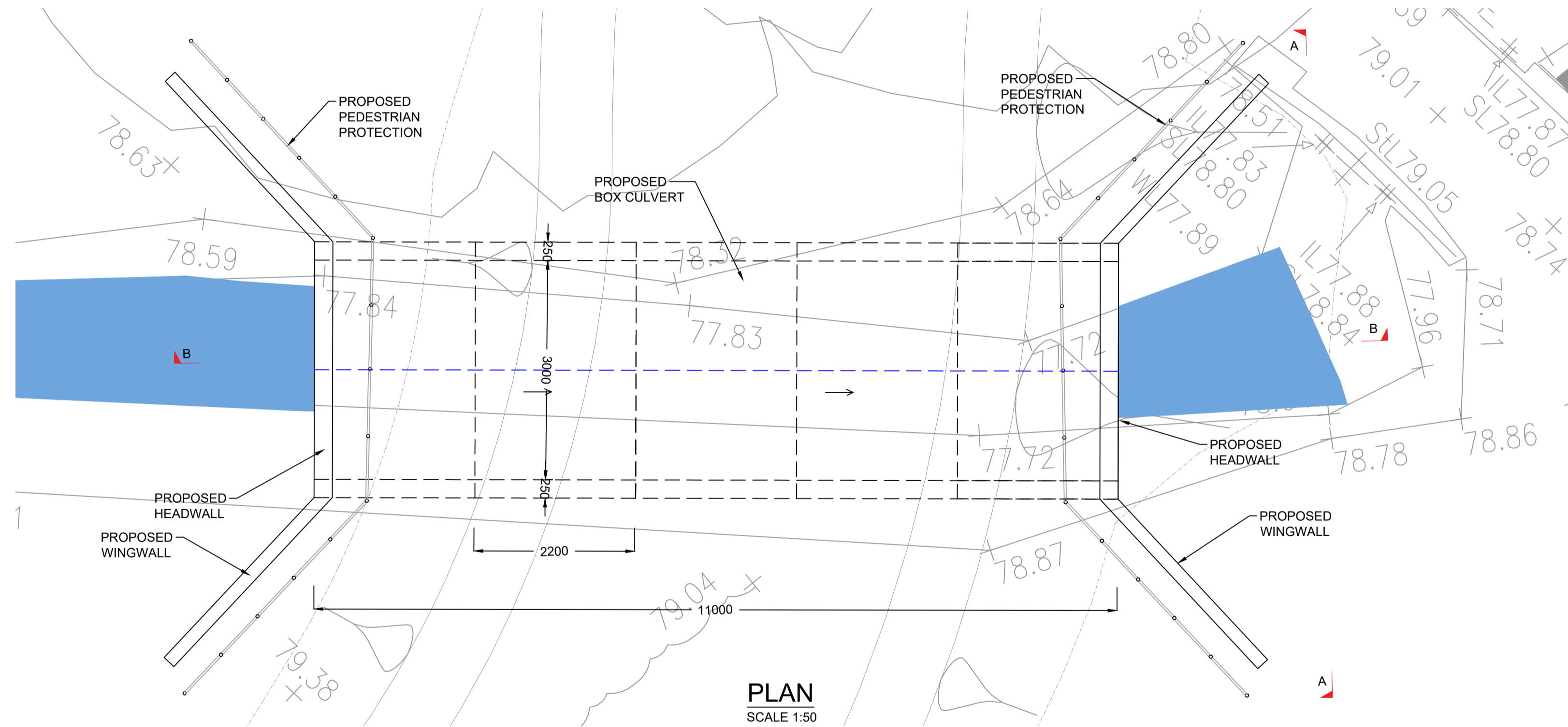


EXAMPLE OF PRECAST CONCRETE BOX CULVERT

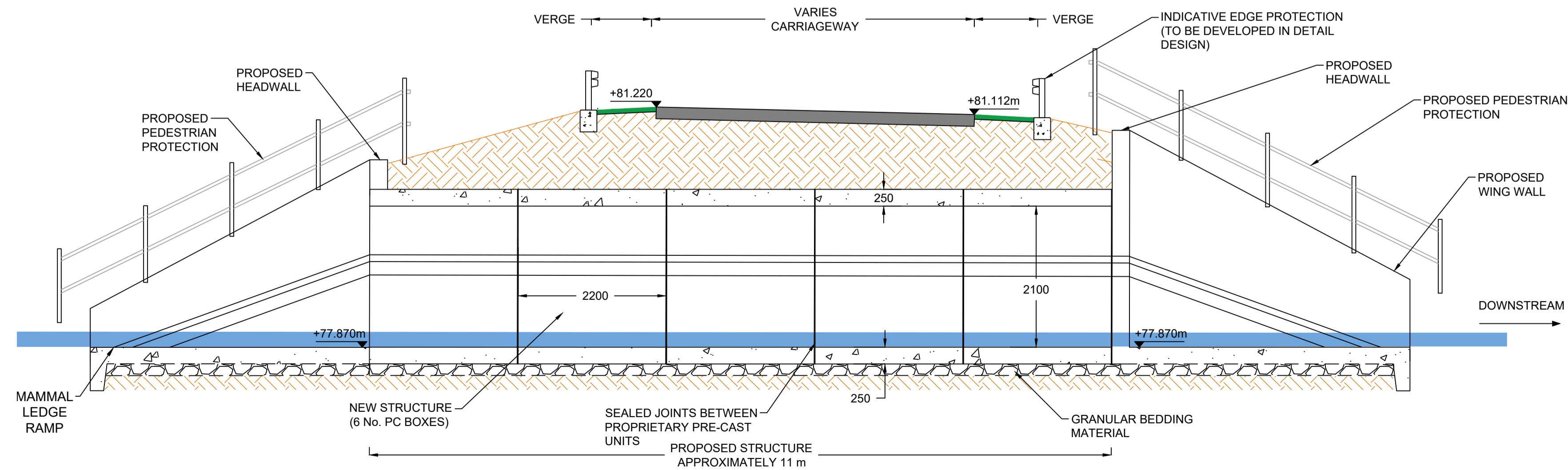
WEST ELEVATION A-A
SCALE 1:50

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

KEY:
- - - PROPOSED RIVER ALIGNMENT

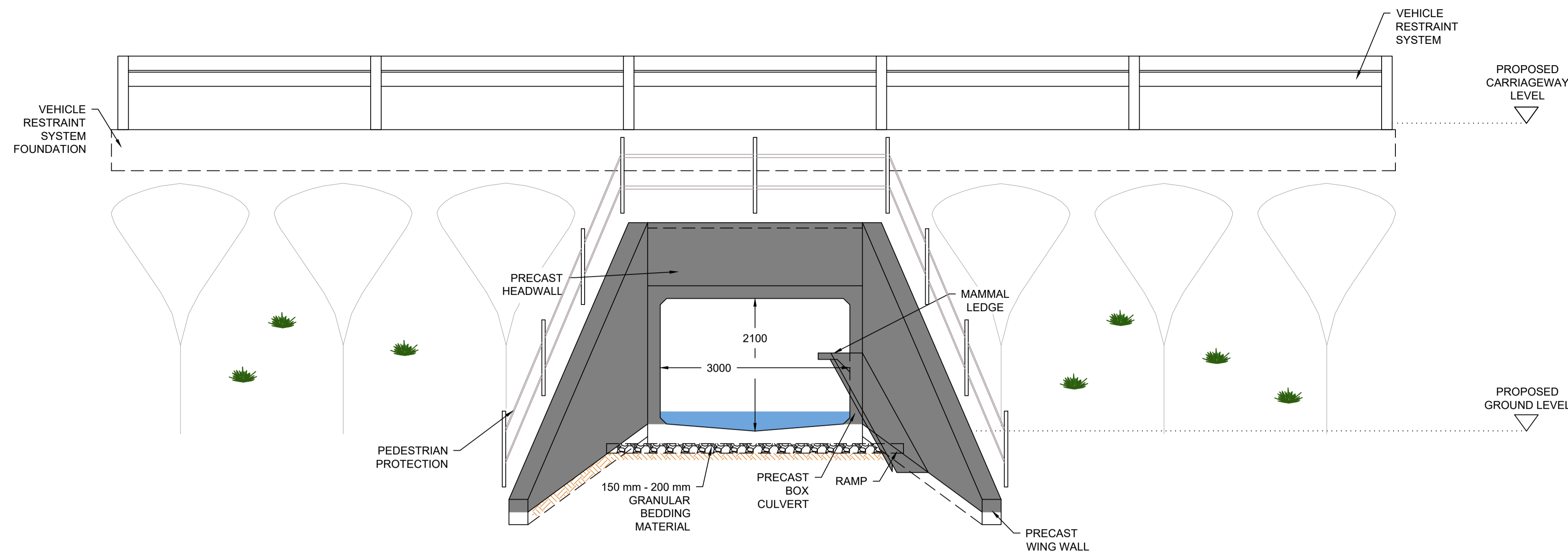


PLAN
SCALE 1:50



LONGITUDINAL SECTION B-B
SCALE 1:50

0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						TR010041/APP/2.8
Client						
Project Title						A1 in Northumberland: Morpeth to Ellingham Part A
Drawing Title						STRUCTURES ENGINEERING DRAWINGS & SECTIONS EARS DON BURN CULVERT (6.3) - CH.17000 SHEET 13 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	ABR	FCV	GL	HA		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-M2F-DR-CB-2004						0
						PW Stg Code
						0



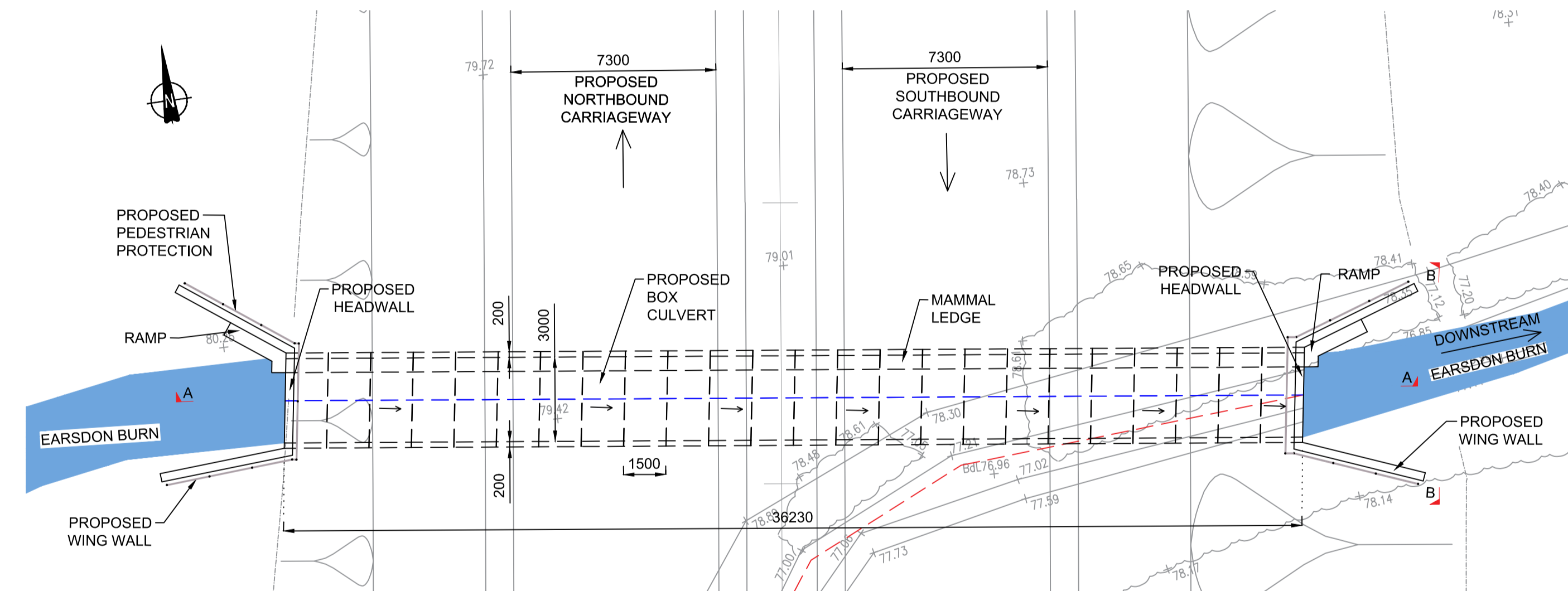
EAST ELEVATION B-B
SCALE 1:50



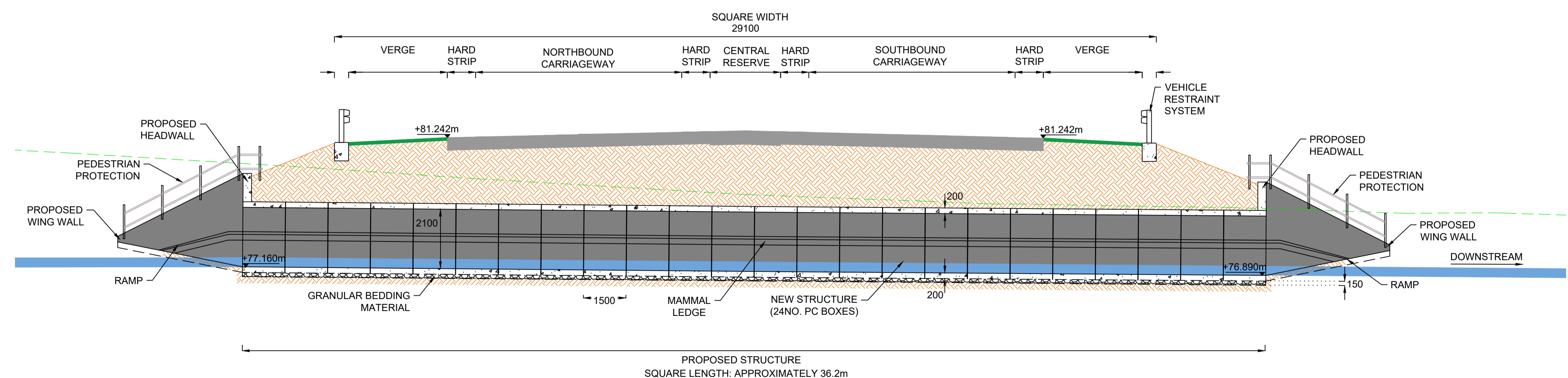
EXAMPLE OF PRECAST CONCRETE BOX CULVERT

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

- KEY:**
- PROPOSED RIVER ALIGNMENT
 - EXISTING RIVER ALIGNMENT
 - EXISTING GROUND LEVEL



PLAN
SCALE 1:150



LONGITUDINAL SECTION A-A
SCALE 1:100

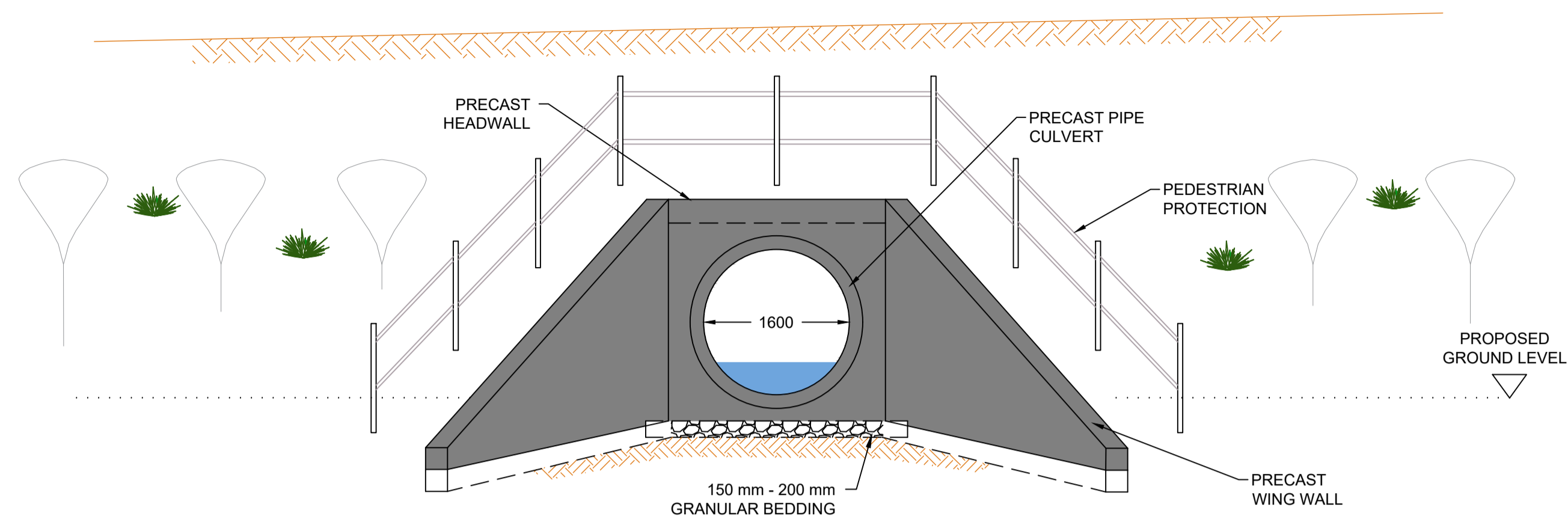
0		14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description		By	Eng' Chk	Disc' Chk	App'd
Suitability							Status
DCO SUBMISSION							S2
PINS Reference Number							
TR010041/APP/2.8							
Client							
Project Title							
A1 in Northumberland: Morpeth to Ellingham Part A							
Drawing Title							
STRUCTURES ENGINEERING DRAWINGS & SECTIONS CAUSEY PARK CULVERT (6.2) - CH.17070 SHEET 14 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)							
Scale	Drawn	Eng. Check	Approved	Authorised			
AS SHOWN	ABR	FCV	GL	HA			
Original Size	Date	Date	Date	Date			
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020			
Drawing Number							Revision
HE551459-WSP-SBR-M2F-DR-CB-2005							0
							PW Slg Code
							0

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS/CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

KEY:

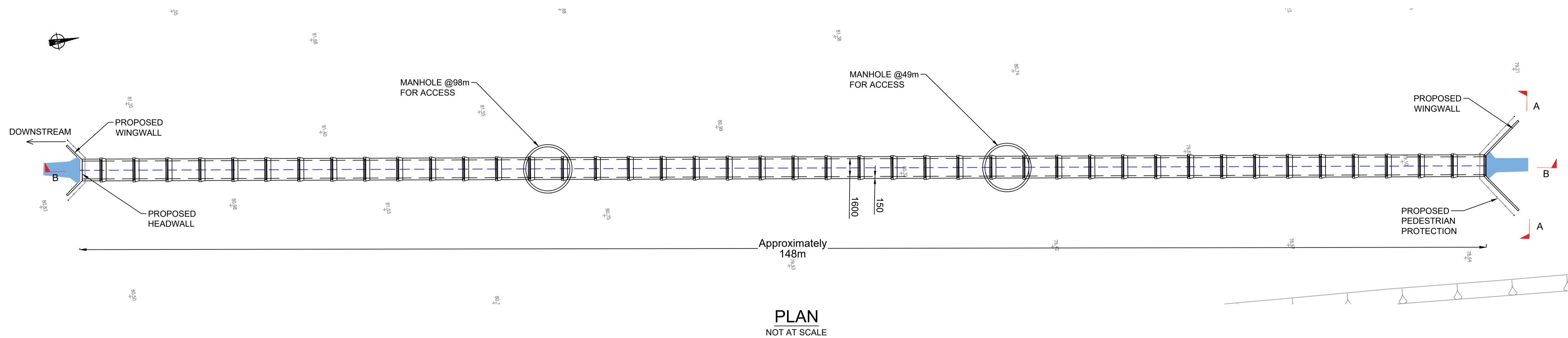
--- PROPOSED RIVER ALIGNMENT



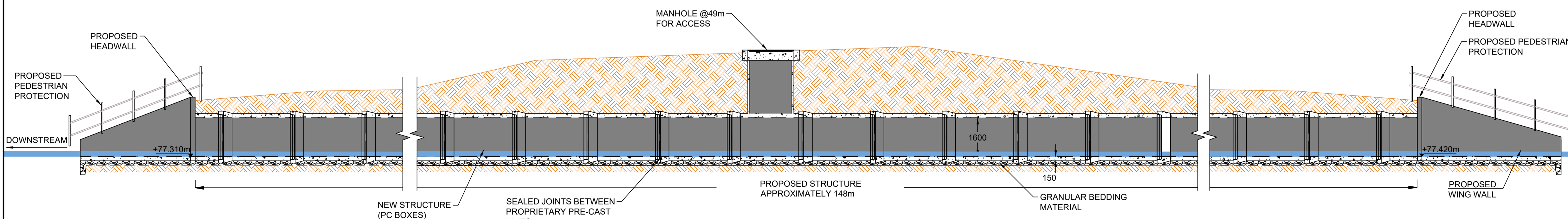
WEST ELEVATION A-A
SCALE 1:50



EXAMPLE OF PRECAST CONCRETE PIPE CULVERT



PLAN
NOT AT SCALE



LONGITUDINAL SECTION B-B
SCALE 1:100

0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2

PINS Reference Number
TR010041/APP/2.8



Client
A1 in Northumberland: Morpeth to Ellingham Part A

Drawing Title
**STRUCTURES ENGINEERING DRAWINGS & SECTIONS
NEW HOUSES FARM CULVERT (7.1) - CH.17150
SHEET 15 OF 27
REGULATIONS 5(2)(o), 5(2)(p) & 6(2)**

Scale	Drawn	Eng. Check	Approved	Authorised
AS SHOWN	ABR	FCV	GL	HA
Original Size	Date	Date	Date	Date
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020

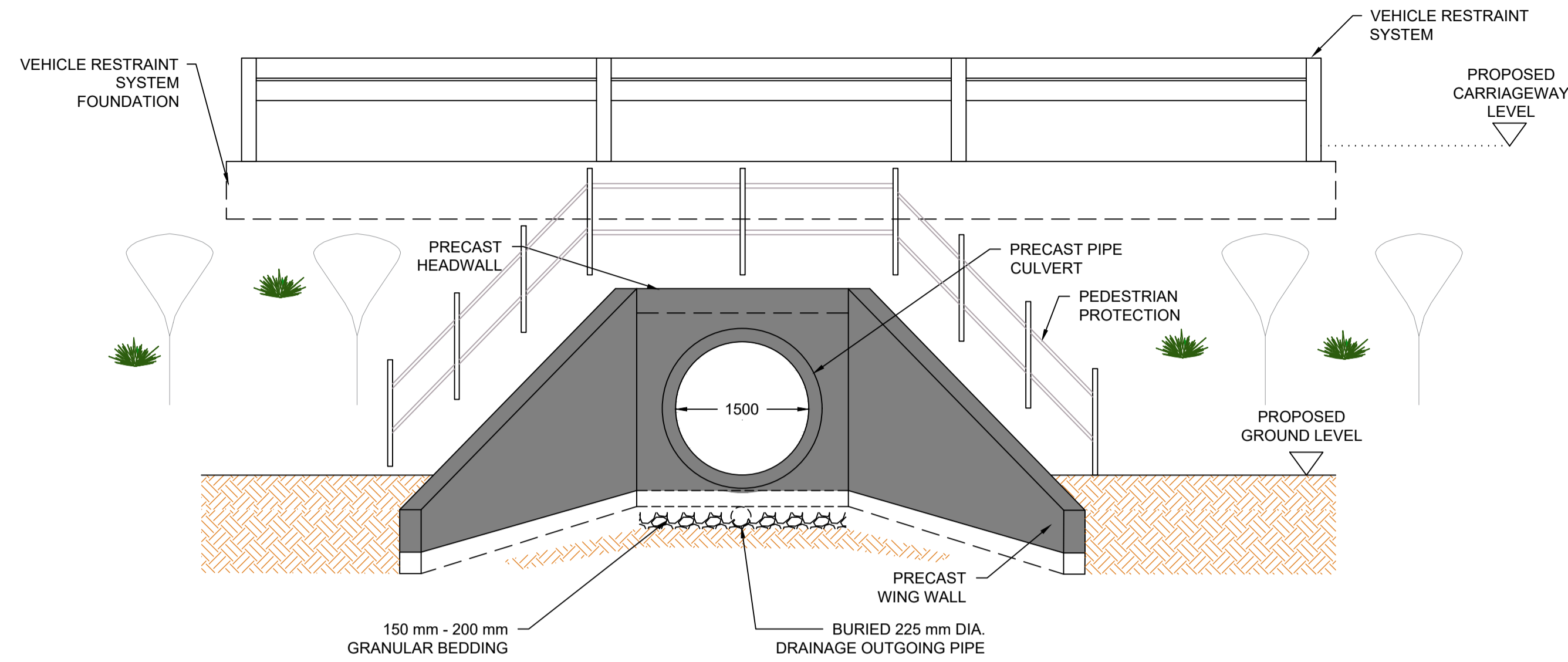
Drawing Number	Revision
HE551459-WSP-SBR-M2F-DR-CB-2006	0
	PW Slg Code
	0

NOTES:

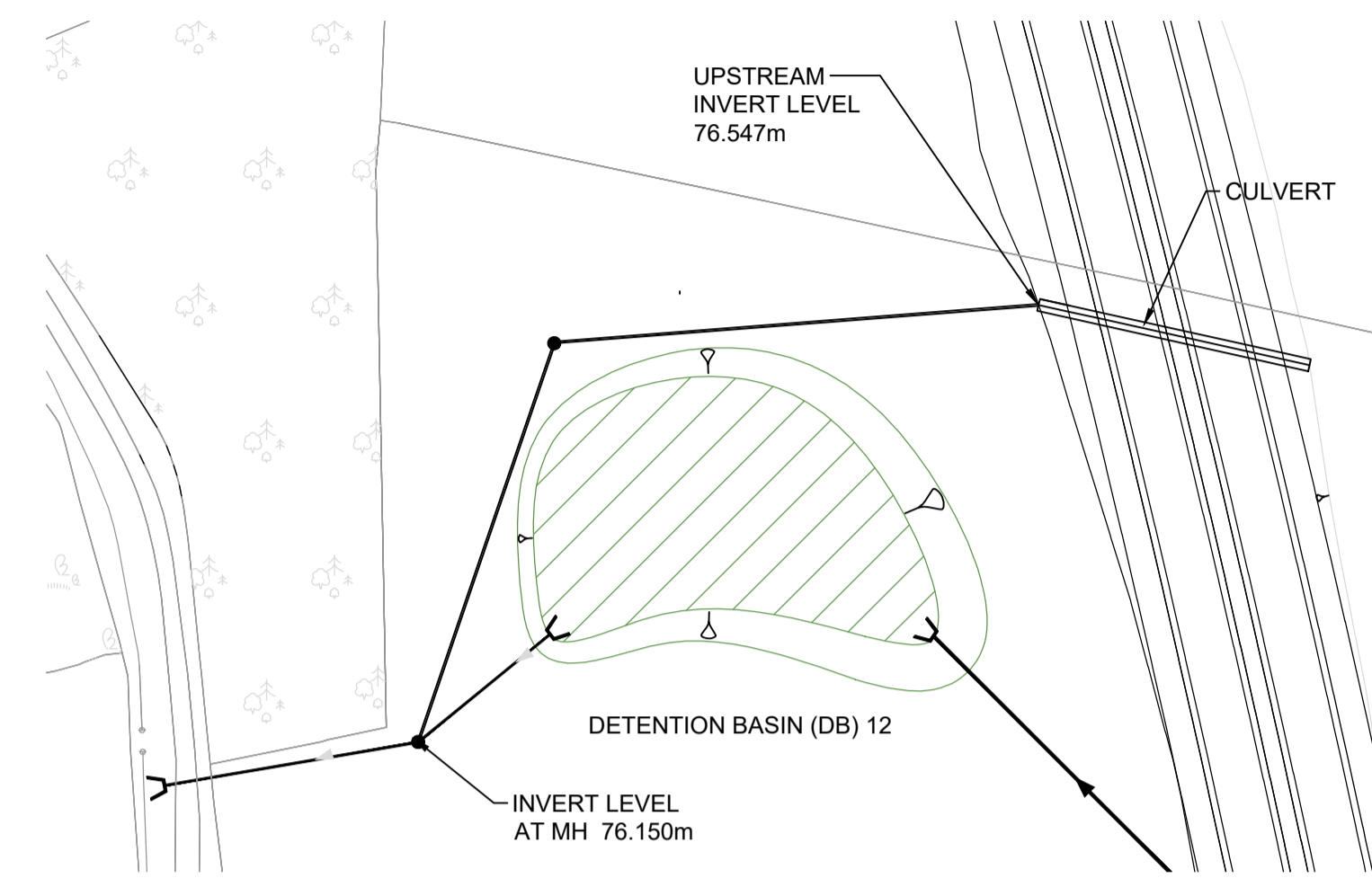
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

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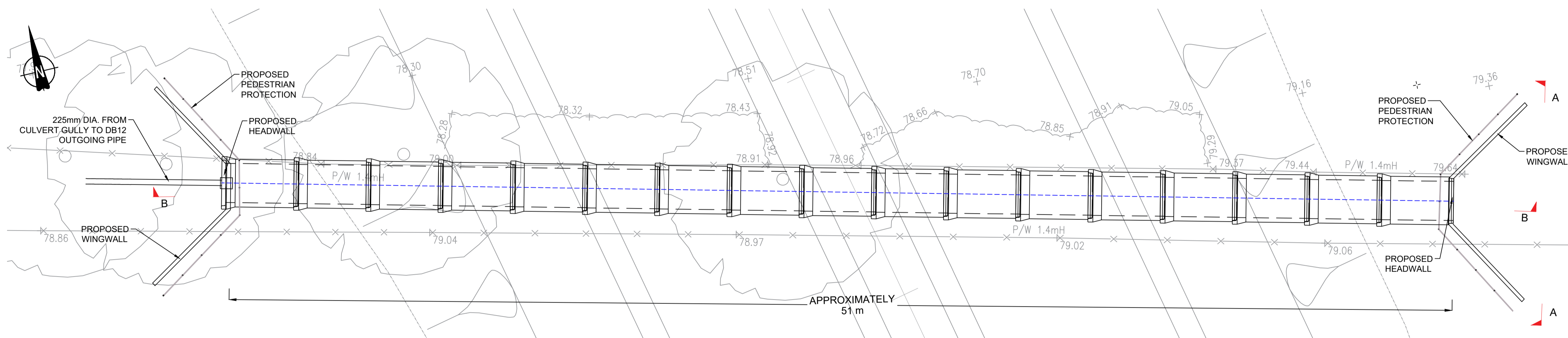
--- PROPOSED RIVER ALIGNMENT



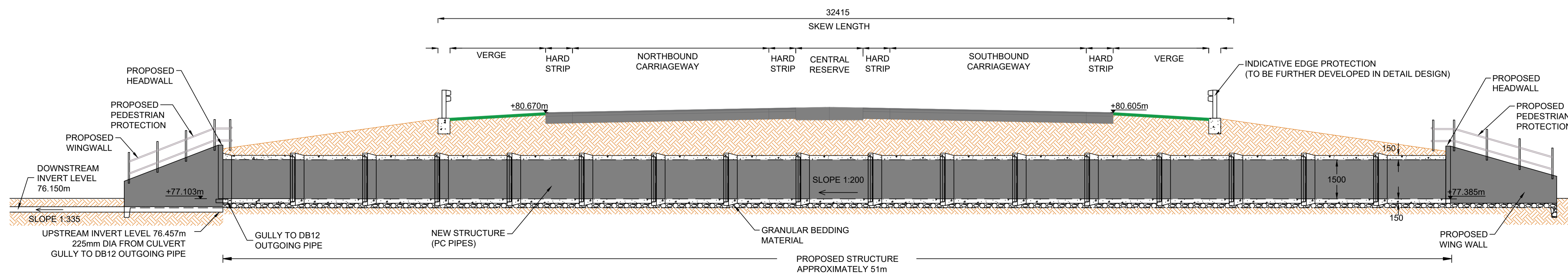
WEST ELEVATION A-A
SCALE 1:50



LOCATION PLAN
SCALE 1:1000



PLAN
SCALE 1:100



LONGITUDINAL SECTION B-B
SCALE 1:100

0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2

PINS Reference Number
TR010041/APP/2.8

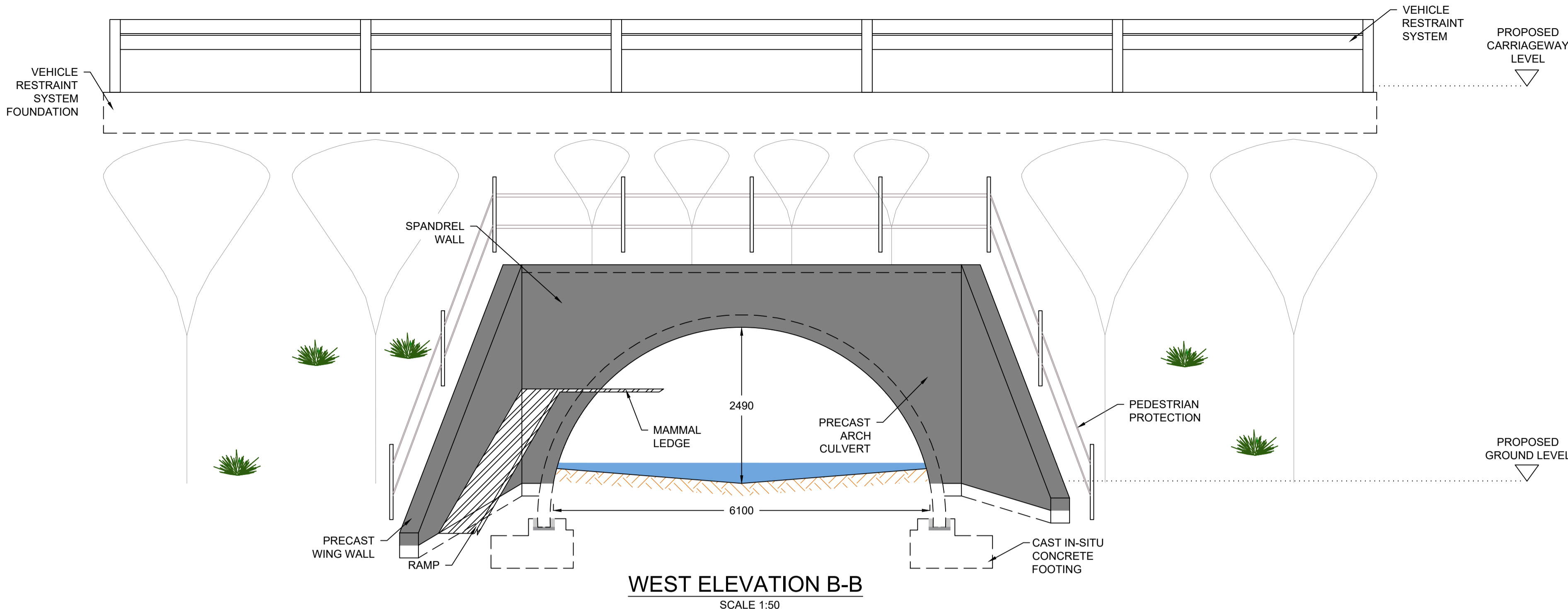


Client
A1 in Northumberland: Morpeth to Ellingham Part A

Drawing Title
**STRUCTURES ENGINEERING DRAWINGS & SECTIONS
WILDLIFE ESHOTT BURN CULVERT (8A) - CH 18300
SHEET 16 OF 27
REGULATIONS 5(2)(o), 5(2)(p) & 6(2)**

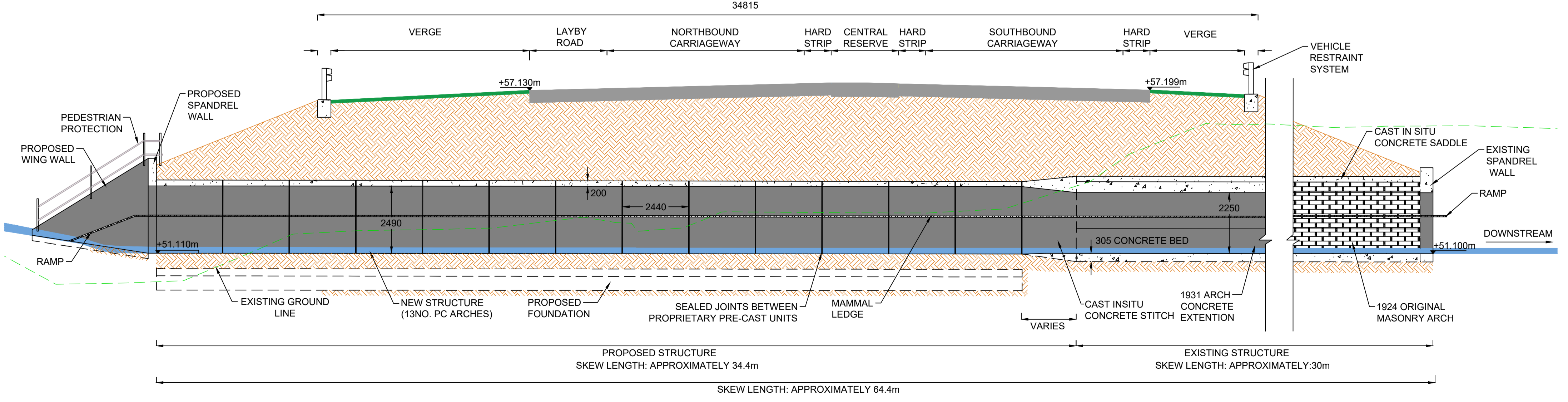
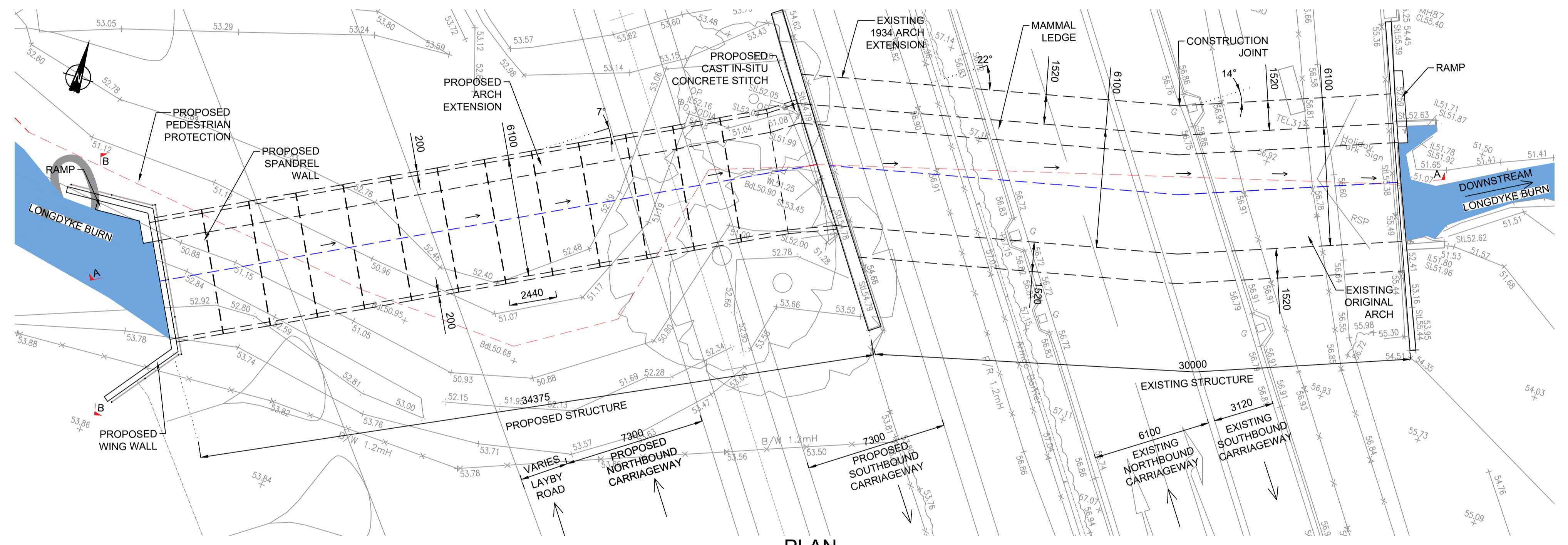
Scale	Drawn	Eng. Check	Approved	Authorised
AS SHOWN	ABR	FCV	GL	HA
Original Size	Date	Date	Date	Date
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020

Drawing Number	Revision
HE551459-WSP-SBR-M2F-DR-CB-2007	0
	P/W Slg Code
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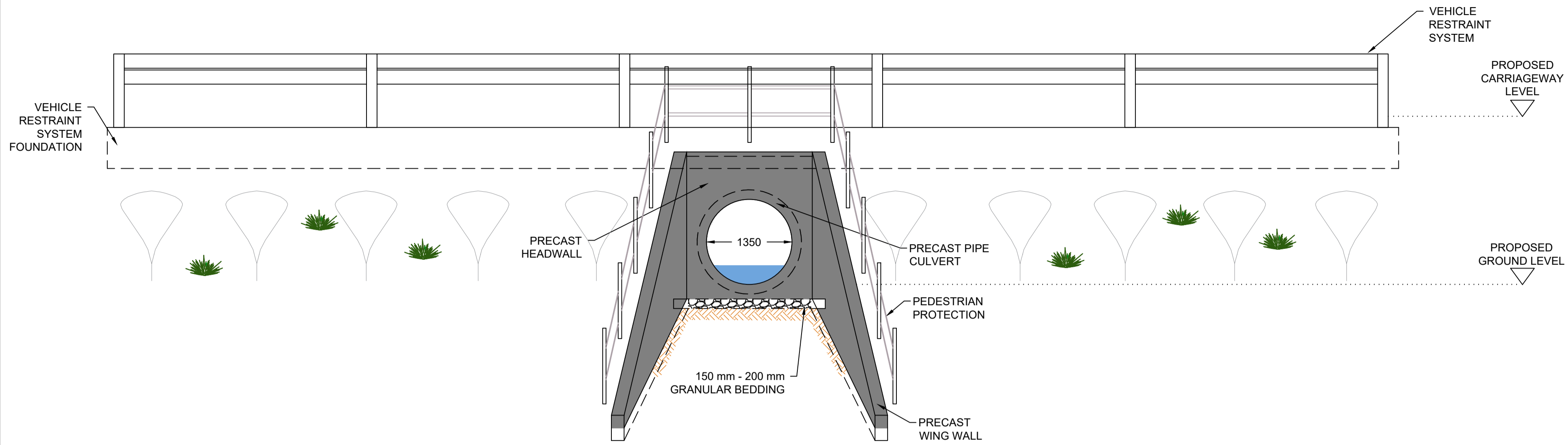


EXAMPLE OF PRECAST CONCRETE ARCH CULVERT

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.
- KEY:**
- PROPOSED RIVER ALIGNMENT
 - - - EXISTING RIVER ALIGNMENT
 - - - EXISTING GROUND LEVEL



0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						
TR010041/APP/2.7						
Client						
Project Title						
A1 in Northumberland: Morpeth to Ellingham Part A						
Drawing Title						
STRUCTURES ENGINEERING DRAWINGS & SECTIONS BOCKENFIELD CULVERT (12) - CH.20000 SHEET 17 OF 27 REGULATIONS 5(2)(o), 5(2)(p), 6(2)						
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	ABR	FCV	GL	HA		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-M2F-DR-CB-2008						0
						PW Stg Code
						0



EAST ELEVATION B-B
SCALE 1:50



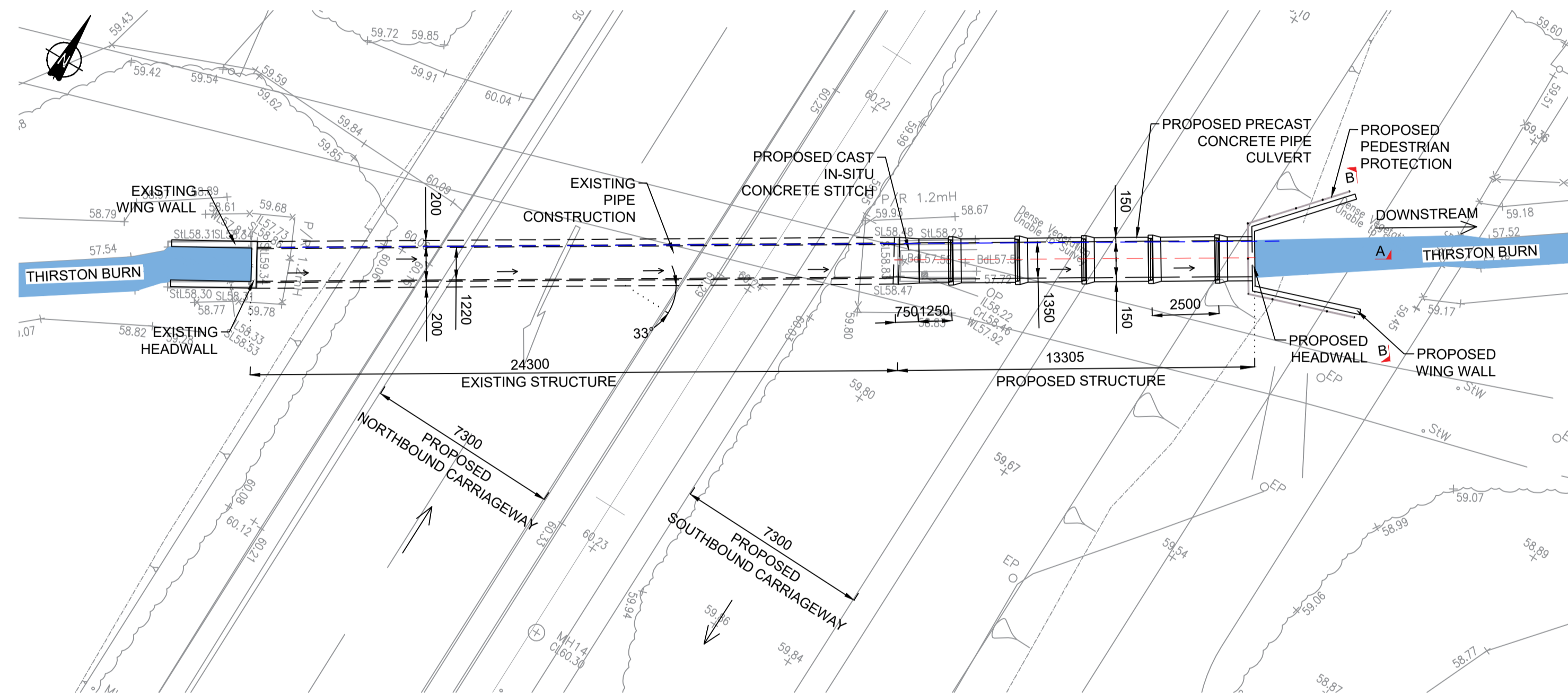
EXAMPLE OF PRECAST CONCRETE PIPE CULVERT

NOTES:

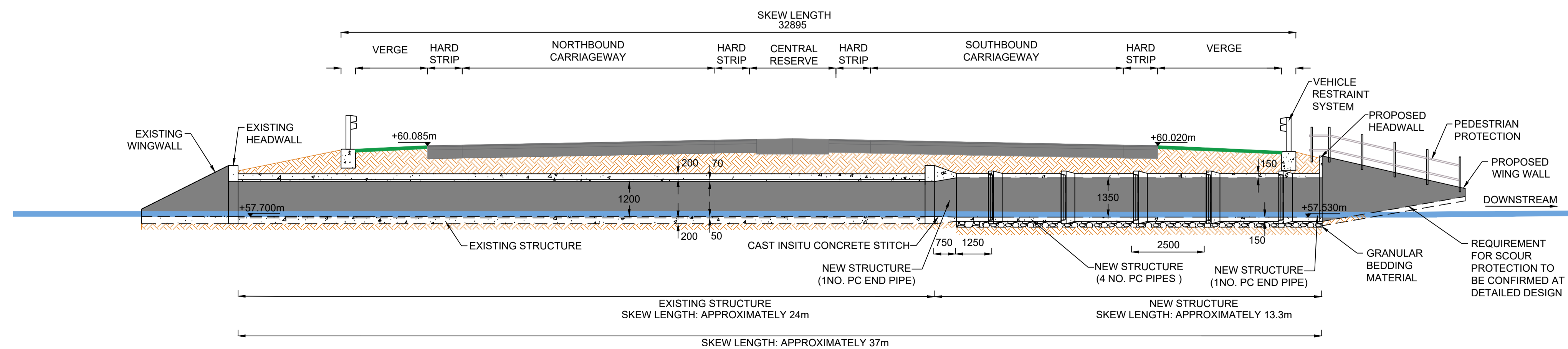
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

KEY:

--- EXISTING RIVER ALIGNMENT



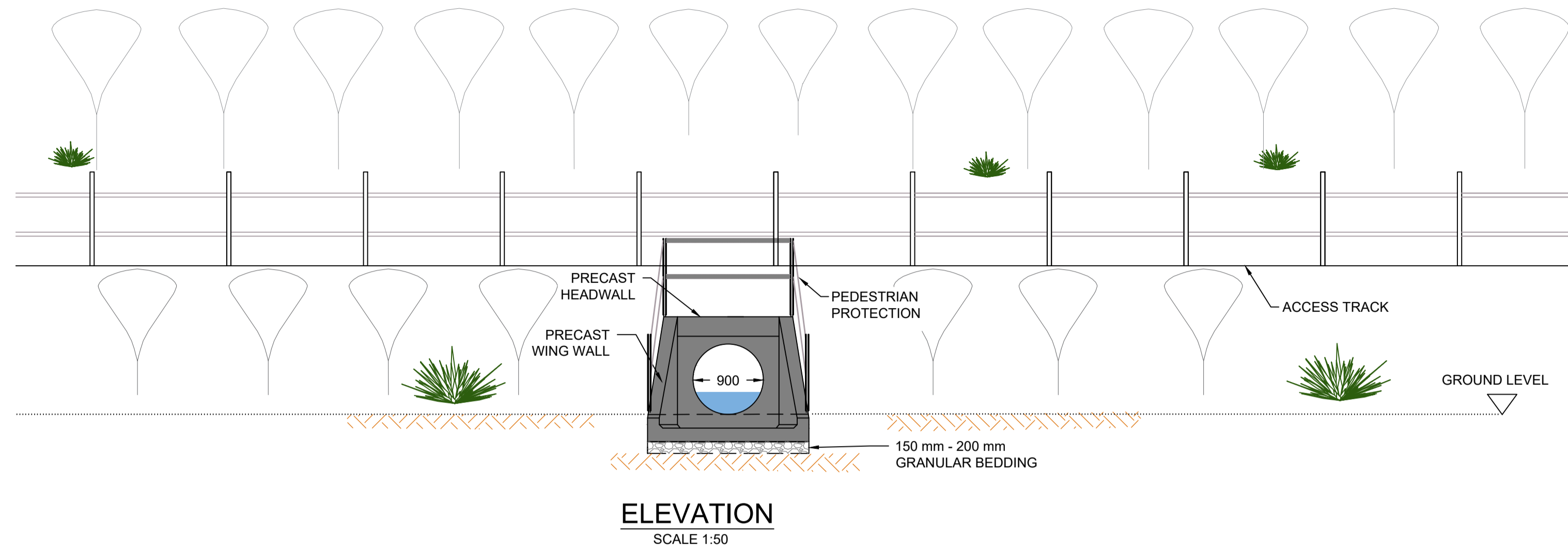
PLAN
SCALE 1:150



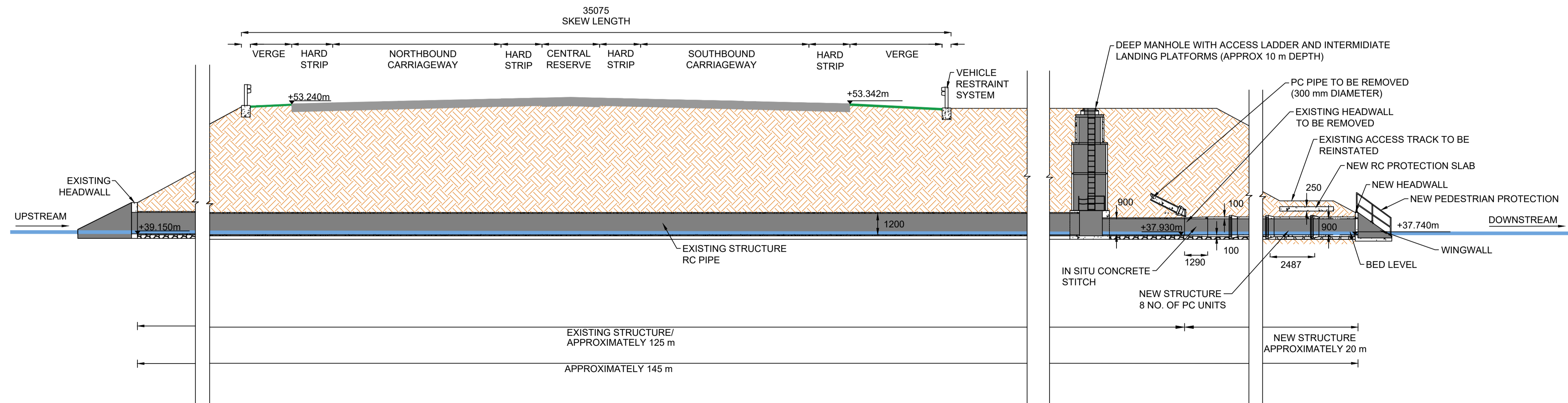
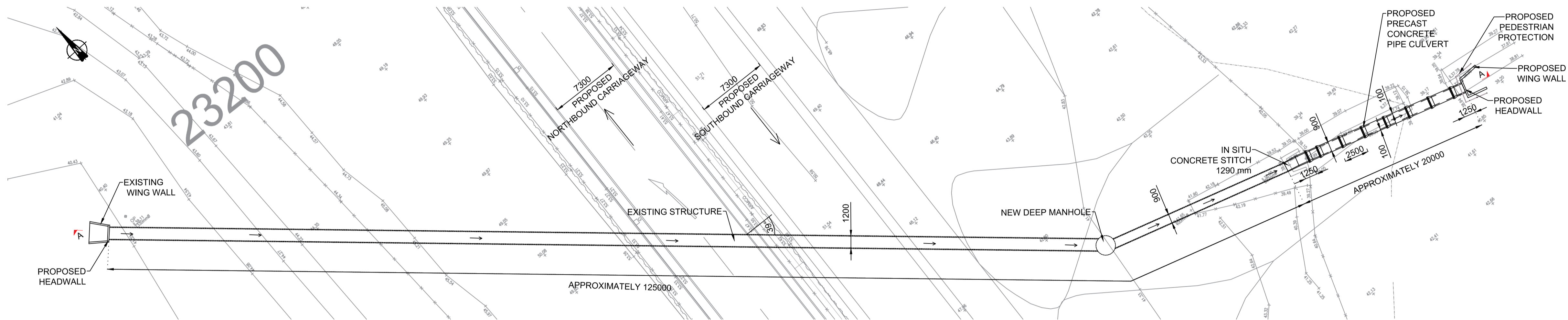
LONGITUDINAL SECTION A-A
SCALE 1:100

0		14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description		By	Eng' Chk	Disc' Chk	App'd
Suitability							Status
DCO SUBMISSION							S2
PINS Reference Number TR010041/APP/2.8							
Client 							
Project Title A1 in Northumberland: Morpeth to Ellingham Part A							
Drawing Title STRUCTURES ENGINEERING DRAWINGS & SECTIONS GLENSHOTTON CULVERT (14) - CH.21860 SHEET 18 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)							
Scale	AS SHOWN	Drawn	ABR	Eng. Check	FCV	Approved	GL
Original Size	A1	Date	14/04/2020	Date	14/04/2020	Date	14/04/2020
Drawing Number HE551459-WSP-SBR-M2F-DR-CB-2009							Revision 0
							PW Sig Code 0

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS/CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.



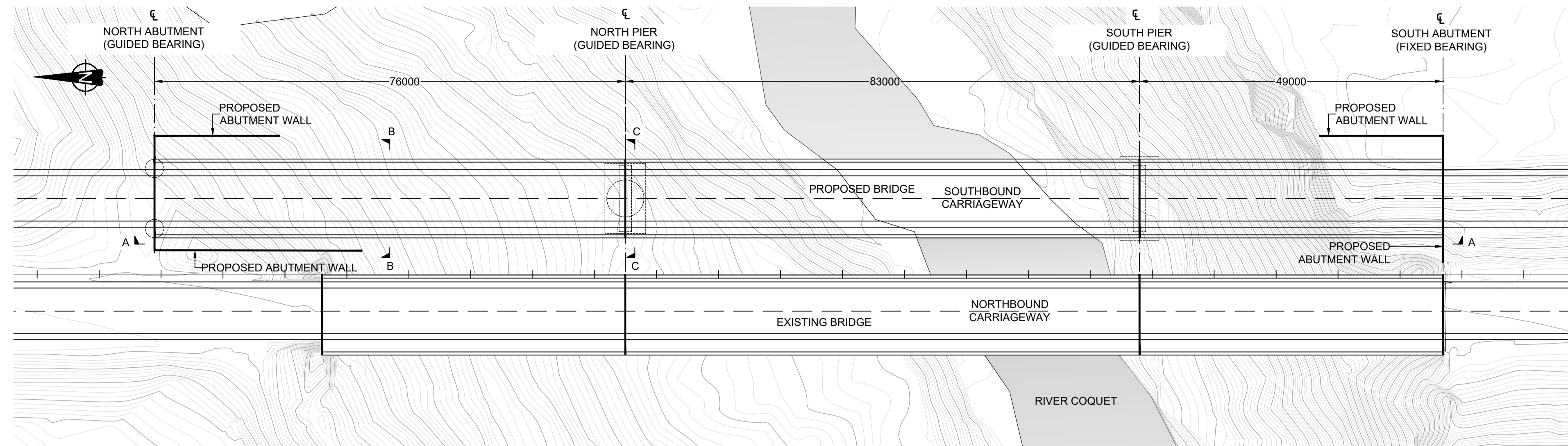
EXAMPLE OF PRECAST CONCRETE PIPE CULVERT



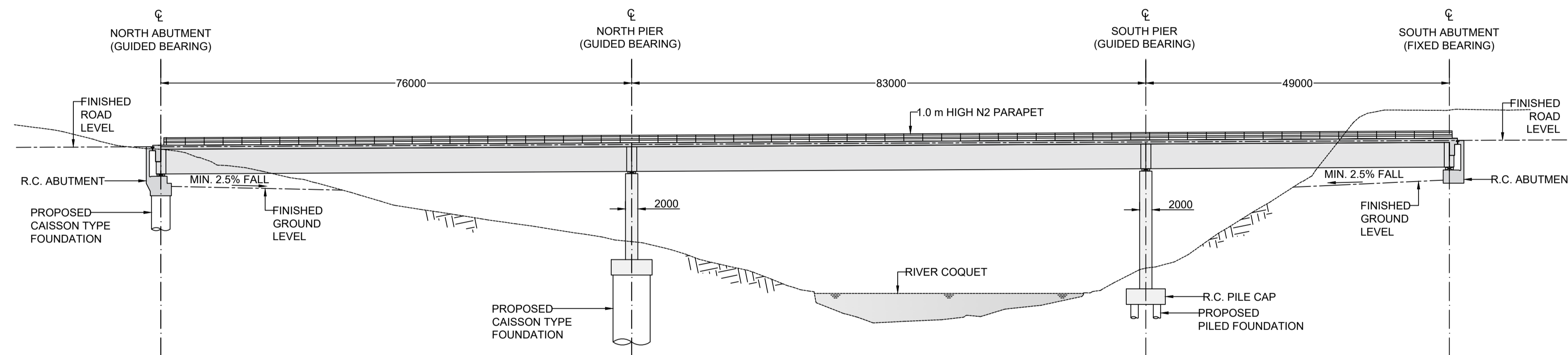
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						TR010041/APP/2.8
Client						
Project Title						
A1 in Northumberland: Morpeth to Ellingham Part A						
Drawing Title						
STRUCTURES ENGINEERING DRAWINGS & SECTIONS PARKWOOD CULVERT (16) - CH.23140 SHEET 19 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)						
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	ABR	FCV	GL	HA		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-M2F-DR-CB-2010						0
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NOTES:

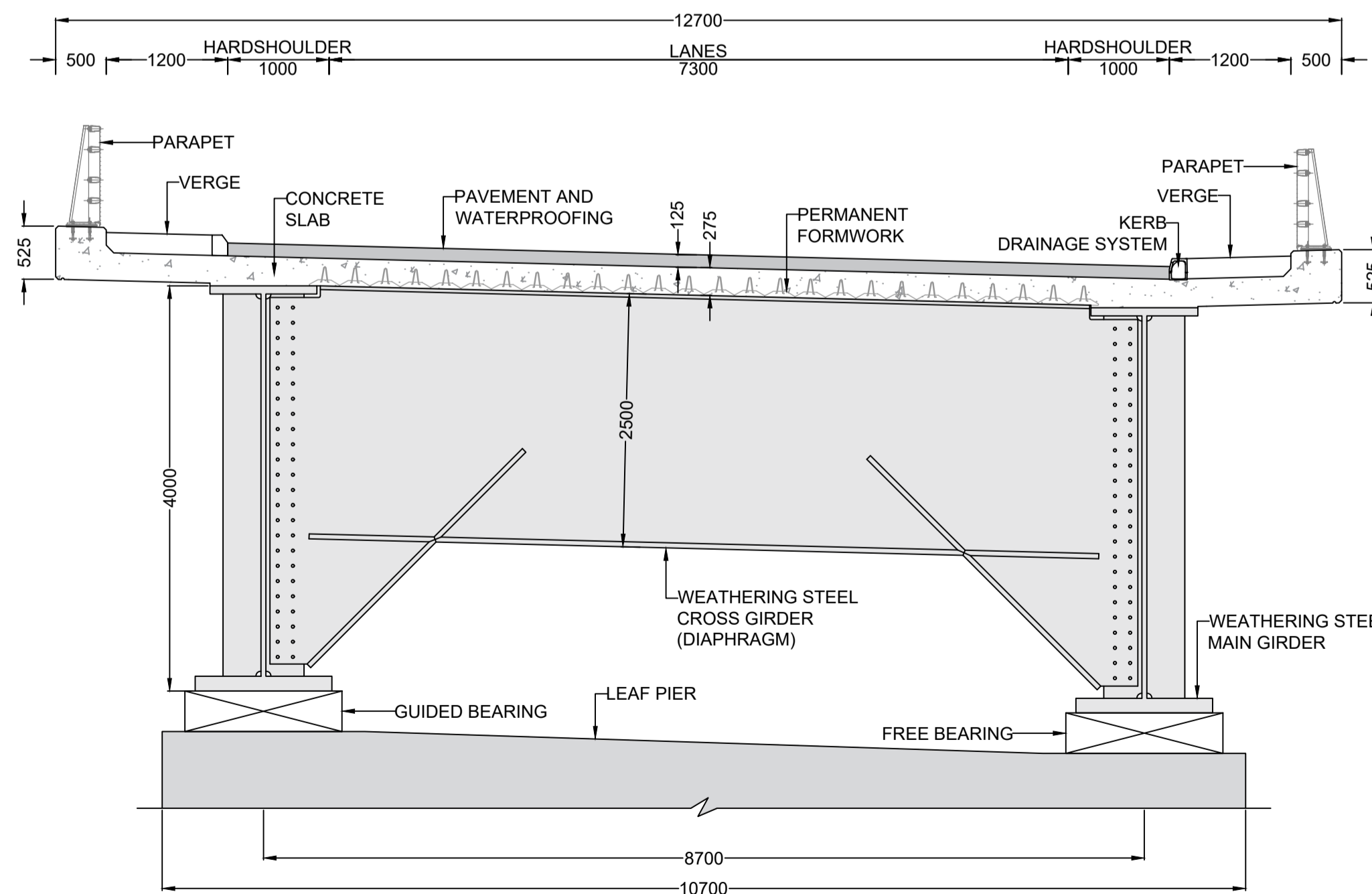
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY



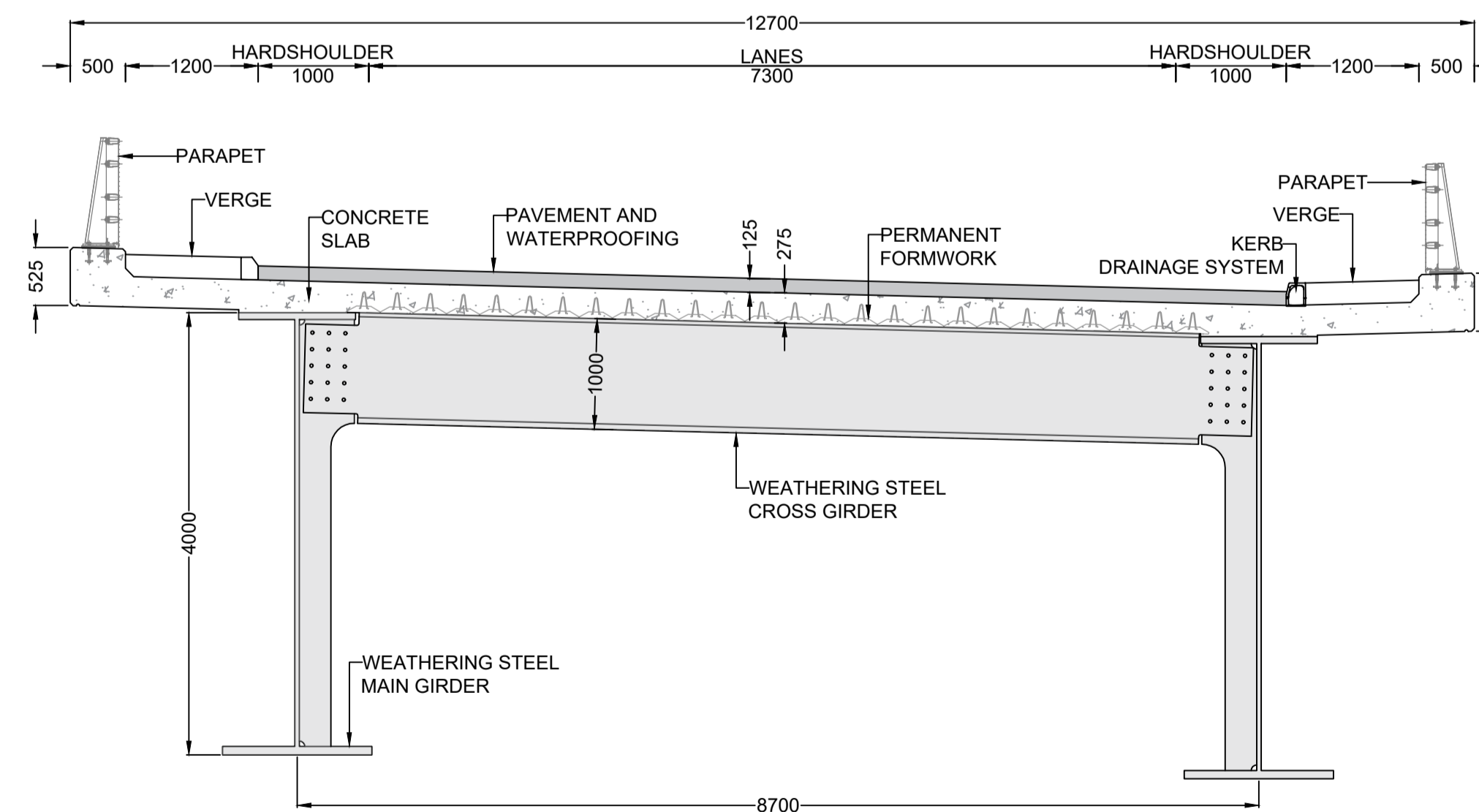
LOCATION PLAN
SCALE 1:500



ELEVATION A - A
SCALE 1:500



CROSS SECTION C-C
SCALE 1:50



CROSS SECTION B-B
SCALE 1:50

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA

Suitability: DCO SUBMISSION Status: S2

PINS Reference Number: TR010041/APP/2.8



Project Title: A1 in Northumberland: Morpeth to Ellingham Part A

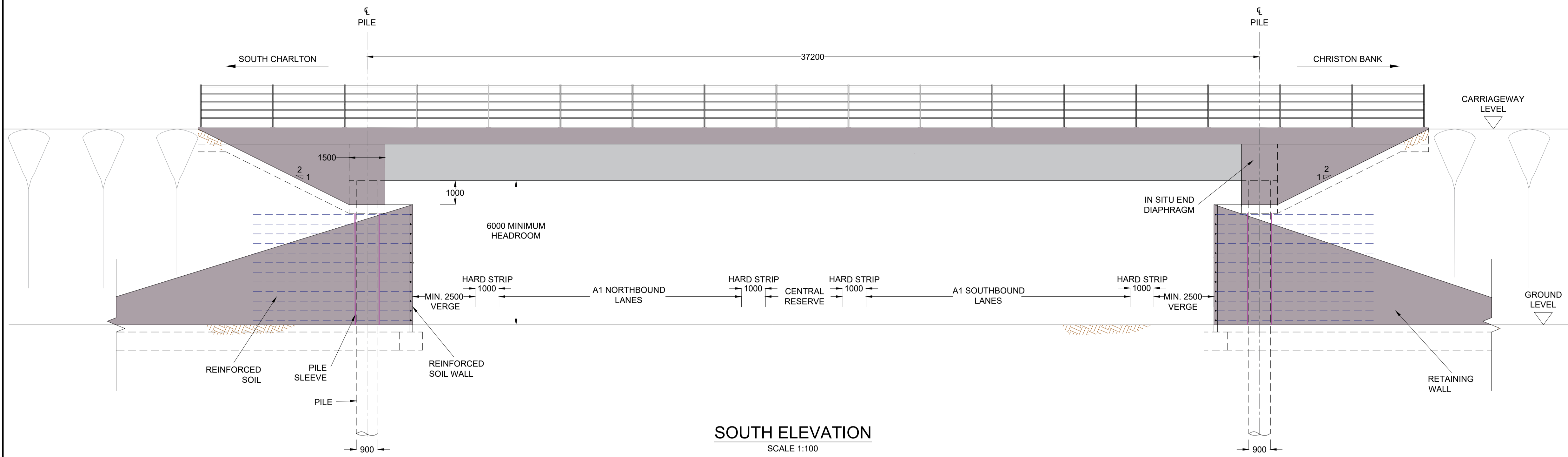
Drawing Title: STRUCTURES ENGINEERING DRAWINGS AND SECTIONS RIVER COQUET BRIDGE - CH 22483 SHEET 20 OF 27 REGULATIONS 5(2)(o), 5(2)(p) & 6(2)

Scale	Drawn	Eng. Check	Approved	Authorised
AS SHOWN	ABR	FCV	GL	HA
Original Size	Date	Date	Date	Date
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020

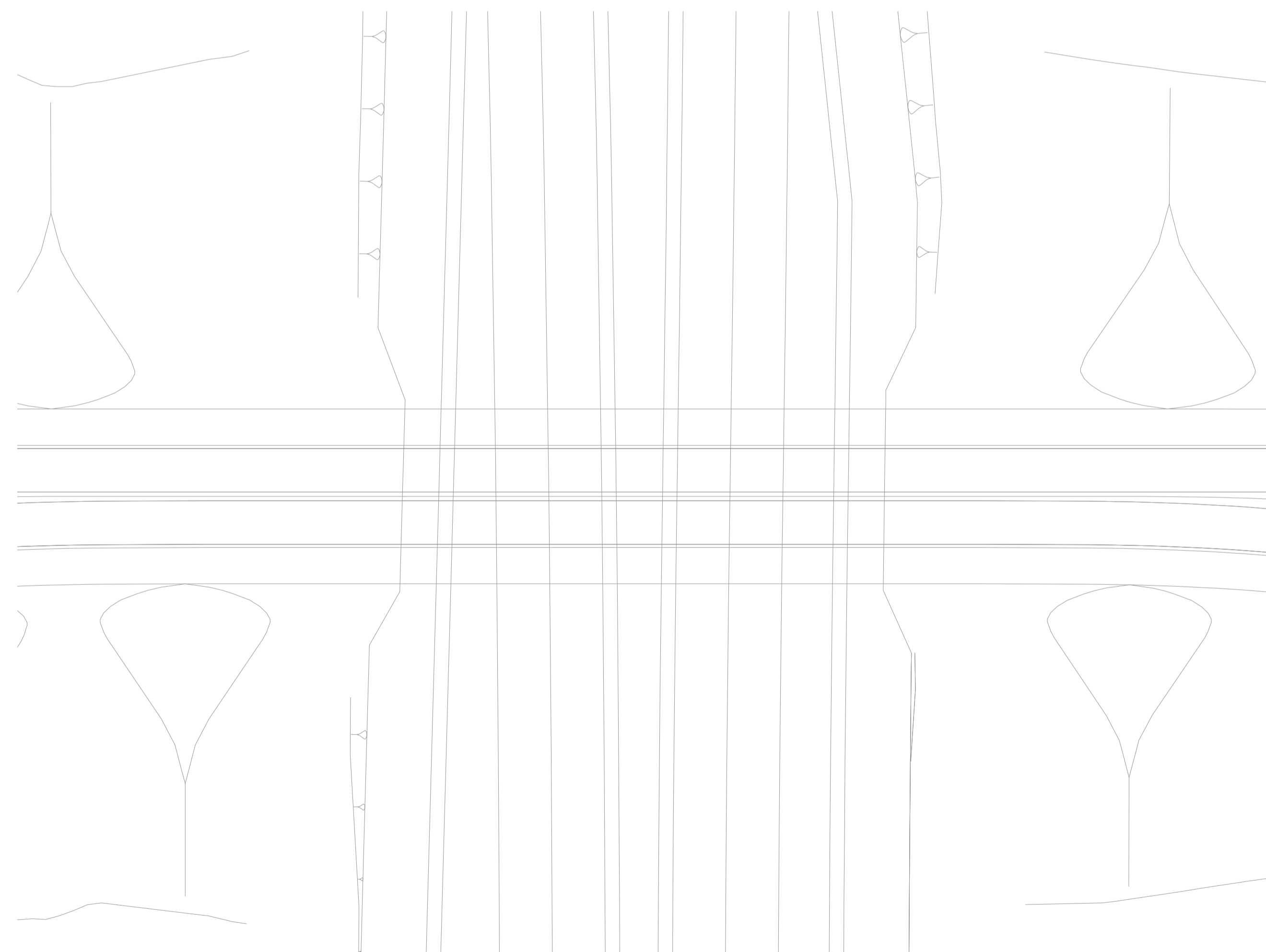
Drawing Number	Revision
HE551459-WSP-SBR-M2F-DR-CB-2011	0
	PW Stg Code
	0

NOTES


1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

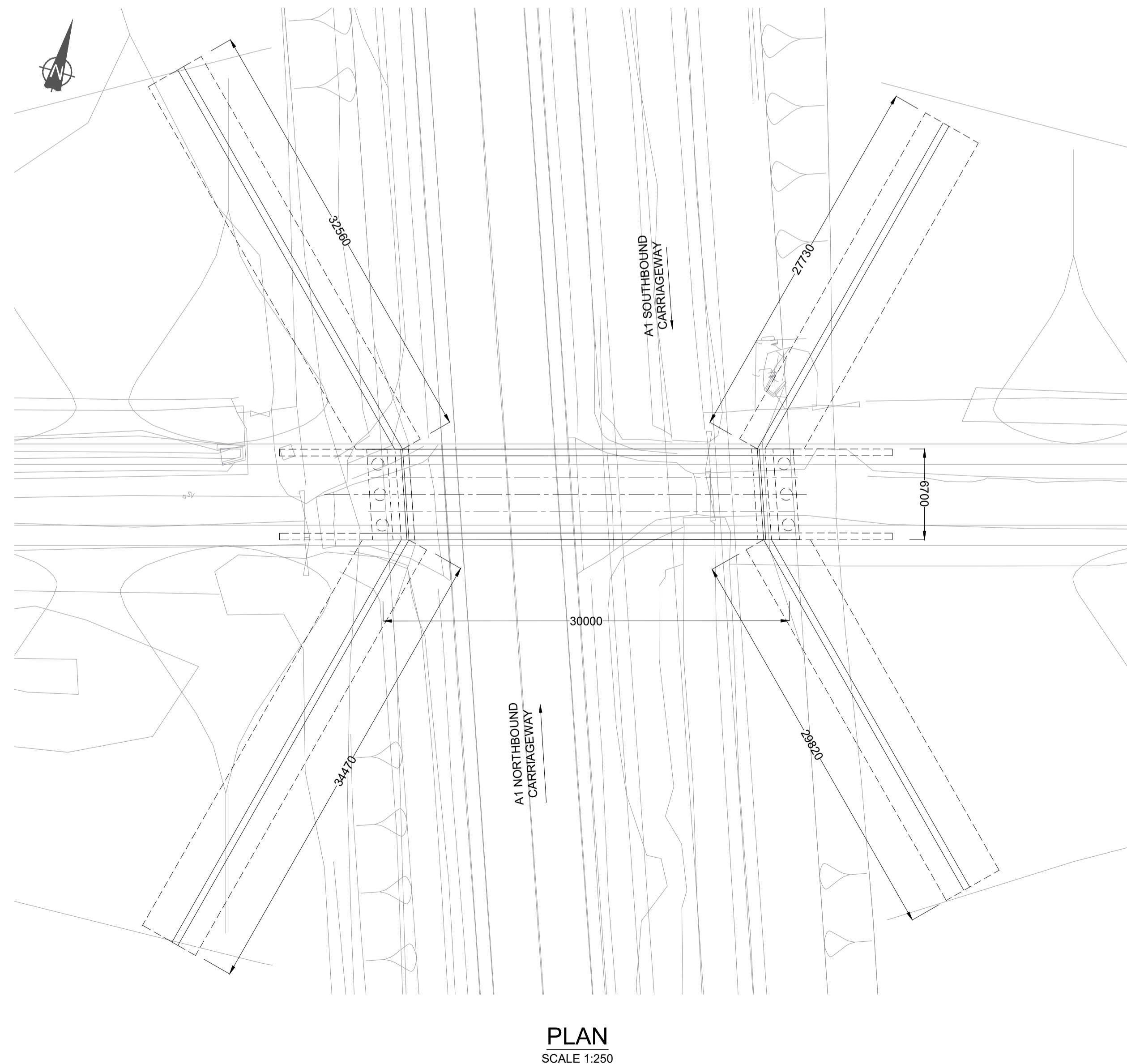
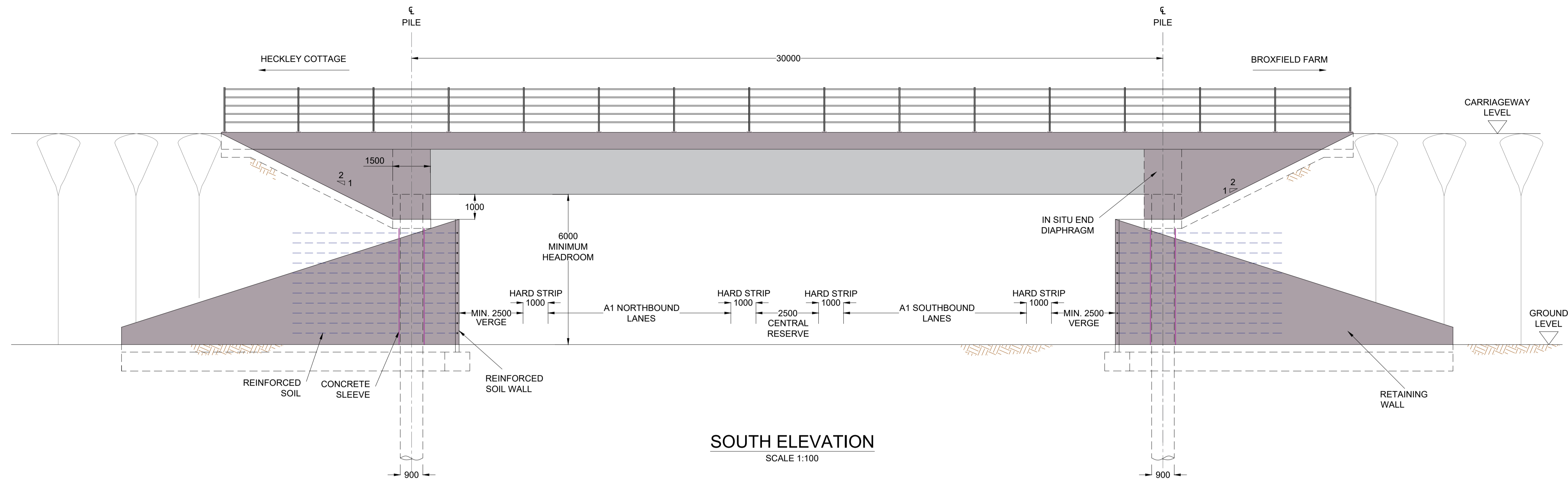


SOUTH ELEVATION
SCALE 1:100



PLAN
SCALE 1:250

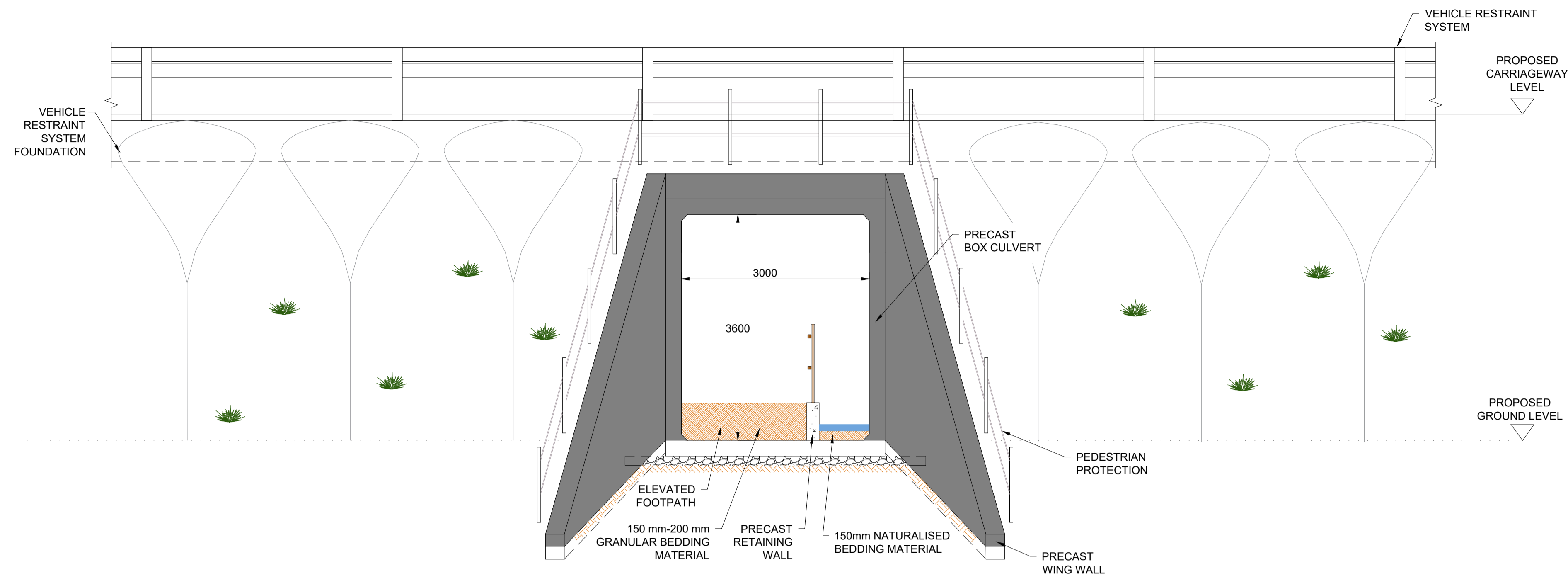
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' CHK	Disc' CHK	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						TR010041/APP/2.8
Client						
						
Project Title						
A1 in Northumberland: Morpeth to Ellingham Part B						
Drawing Title						
STRUCTURES ENGINEERING DRAWINGS & SECTIONS CHARLTON MIRES JUNCTION TO OVERBRIDGE - CH.55310 SHEET 21 of 27 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)						
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	SJW	SC	GL	DM		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-A2E-DR-CB-2161						0
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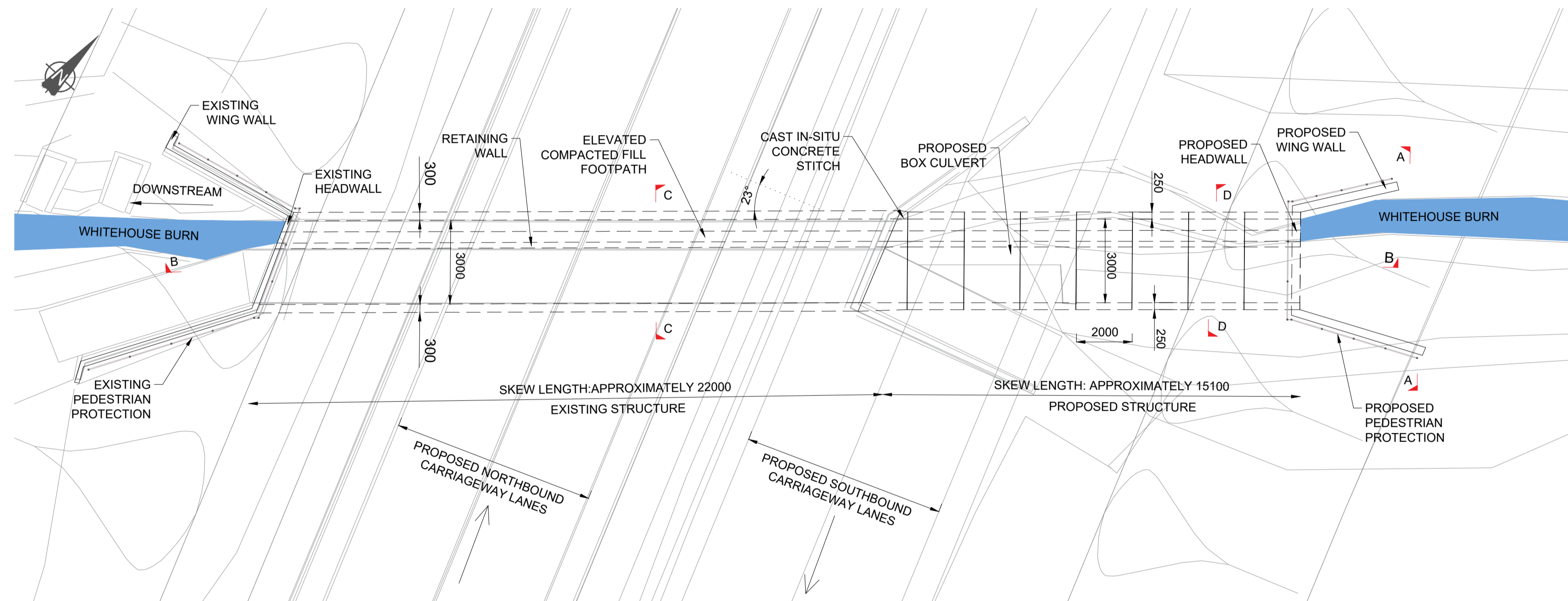
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

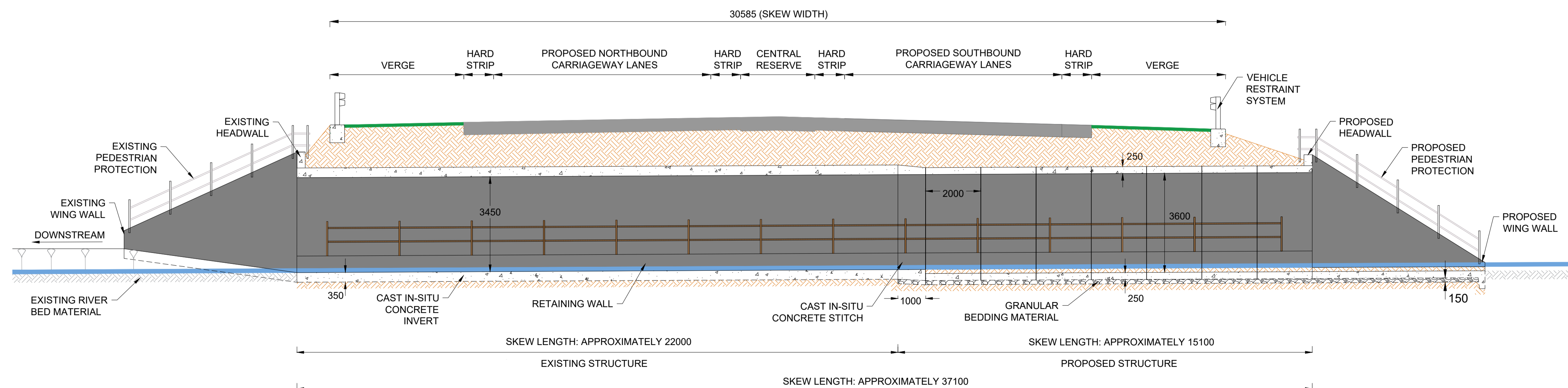
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						TR010041/APP/2.8
Client						
Project Title						
A1 in Northumberland: Morpeth to Ellingham Part B						
Drawing Title						
STRUCTURES ENGINEERING DRAWINGS & SECTIONS HECKLEY FENCE OVERBRIDGE - CH.58940 SHEET 22 of 27 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)						
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	SJW	SC	GL	DM		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-A2E-DR-CB-2162						0
						PW Stg Code
						0



EAST ELEVATION A-A
SCALE 1:50



PLAN
SCALE 1:125

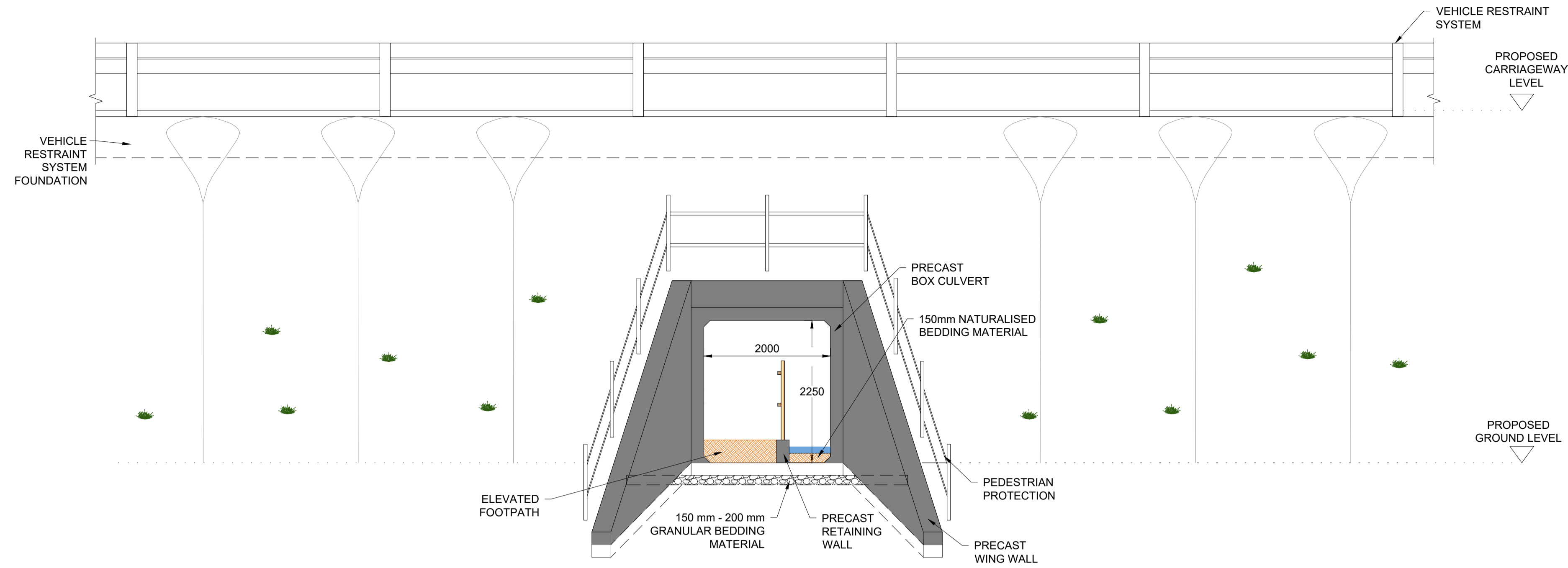


LONGITUDINAL SECTION B-B
SCALE 1:100

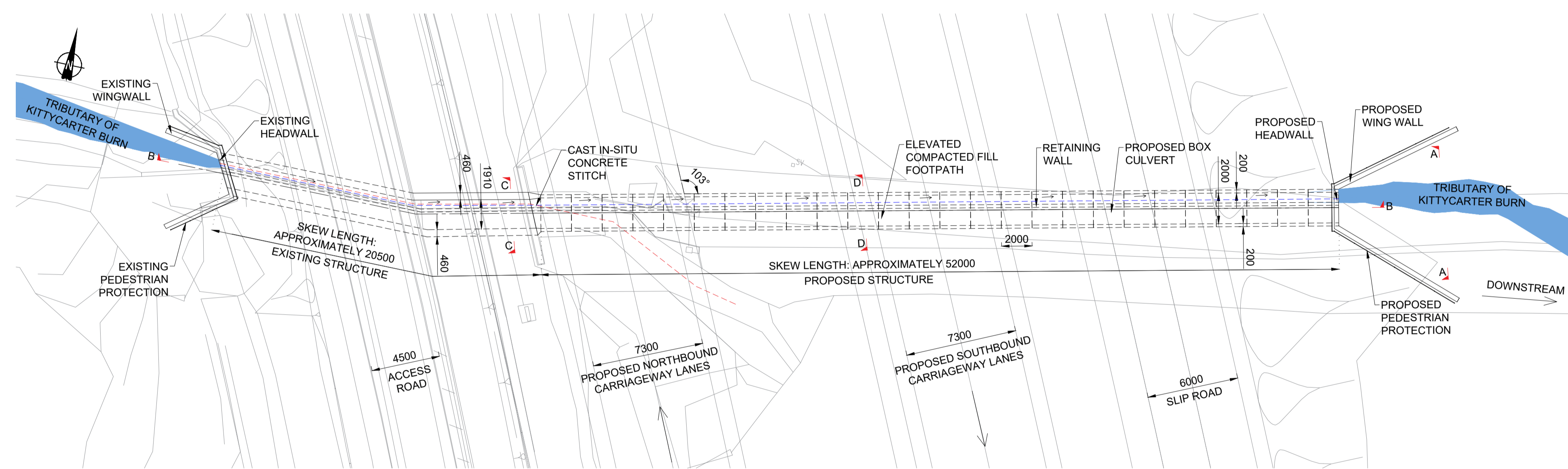
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

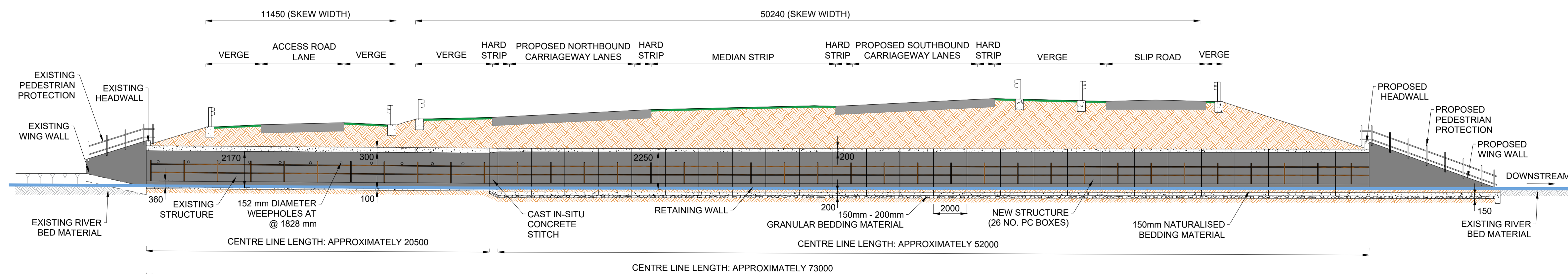
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number TR010041/APP/2.8						
Client 						
Project Title A1 in Northumberland: Morpeth to Ellingham Part B						
Drawing Title STRUCTURES ENGINEERING DRAWINGS & SECTIONS WHITEHOUSE BURN CULVERT - CH.56920 SHEET 23 of 27 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)						
Scale AS SHOWN	Drawn SJW	Eng. Check SC	Approved GL	Authorised DM		
Original Size A1	Date 14/04/2020	Date 14/04/2020	Date 14/04/2020	Date 14/04/2020	Date 14/04/2020	
Drawing Number HE551459-WSP-SBR-A2E-DR-CB-2163						Revision 0
						PW Stg Code 0



EAST ELEVATION A-A
SCALE 1:50



PLAN
SCALE 1:200



LONGITUDINAL SECTION B-B
SCALE 1:150

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	12/03/2021	AMENDMENTS DUE TO THE UPDATED HIGHWAY ALIGNMENT	EE	GL	GL	HA
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA

Suitability	DCO SUBMISSION	Status	S2
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PINS Reference Number	TR010041/APP/2.8
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Client	A1 in Northumberland: Morpeth to Ellingham Part B
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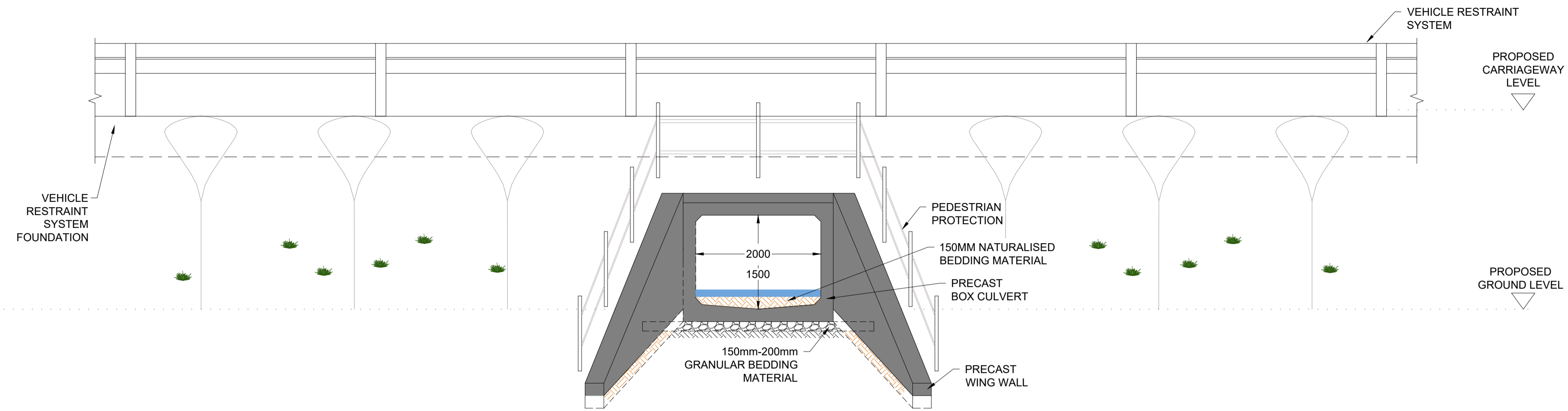
Project Title	STRUCTURES ENGINEERING DRAWINGS & SECTIONS LINKHALL CULVERT - CH.59275 SHEET 24 of 27 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)
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Scale	AS SHOWN	Drawn	SJW	Eng. Check	SC	Approved	GL	Authorised	DM
Original Size	A1	Date	14/04/2020	Date	14/04/2020	Date	14/04/2020	Date	14/04/2020

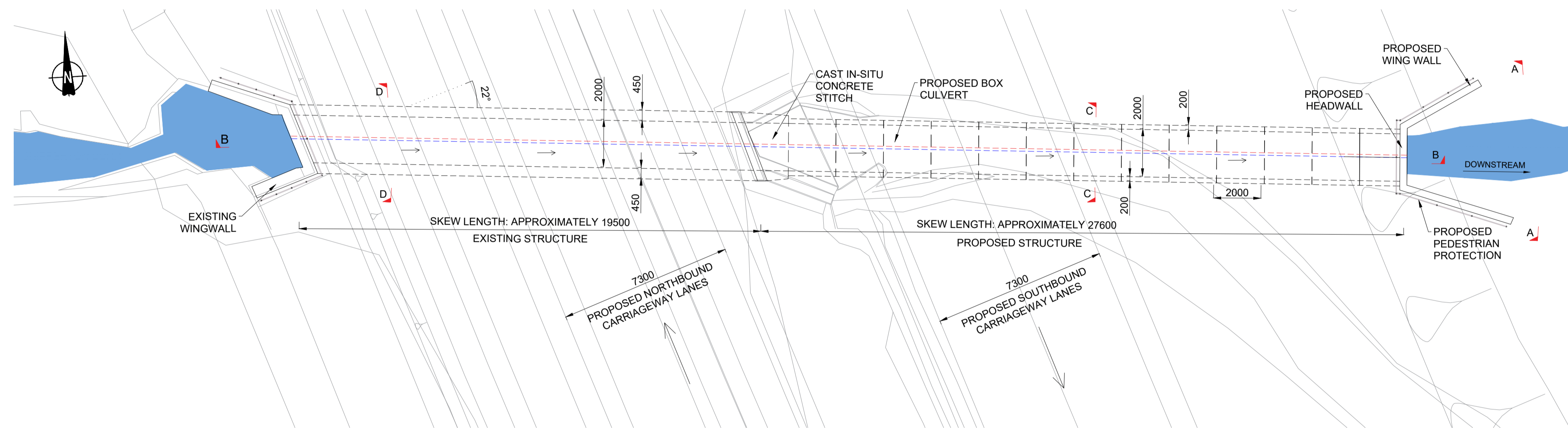
Drawing Number	HE551459-WSP-SBR-A2E-DR-CB-2164	Revision	1
		PW Stg Code	0

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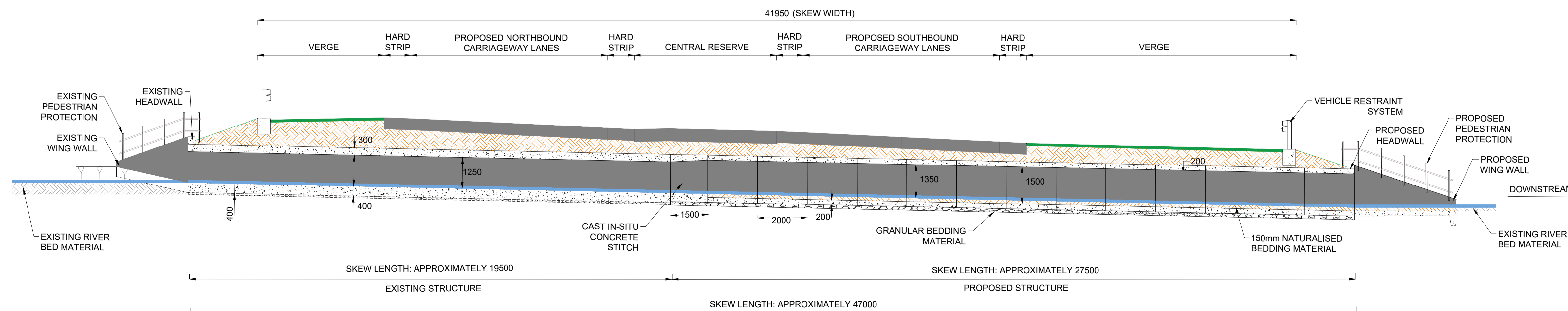
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.



EAST ELEVATION A-A
SCALE 1:50



PLAN
SCALE 1:125

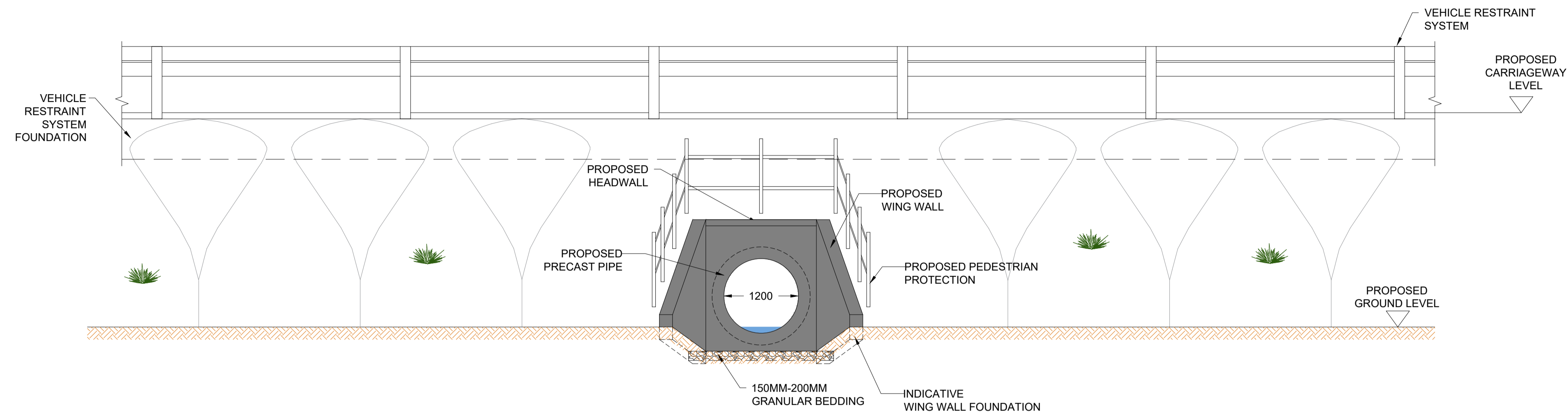


LONGITUDINAL SECTION B-B
SCALE 1:100

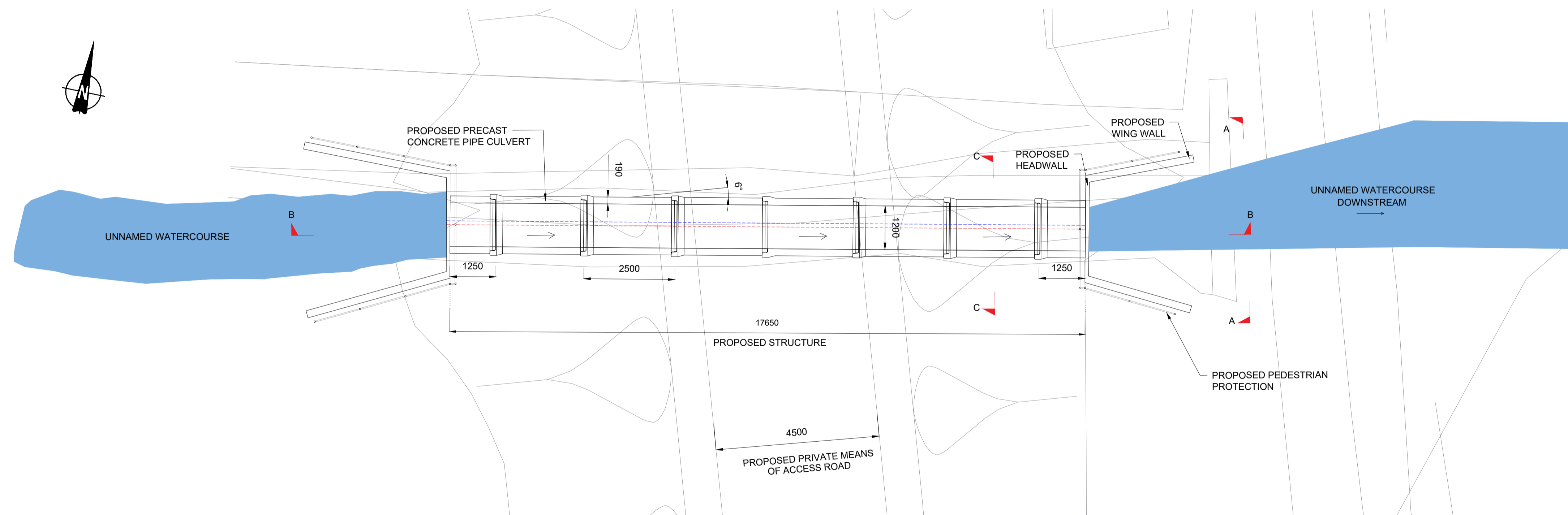
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
Suitability						Status
DCO SUBMISSION						S2
PINS Reference Number						
TR010041/APP/2.8						
Client						
Project Title						
A1 in Northumberland: Morpeth to Ellingham Part B						
Drawing Title						
STRUCTURES ENGINEERING DRAWINGS & SECTIONS SHIPPERTON CULVERT - CH.60385 SHEET 25 of 27 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)						
Scale	Drawn	Eng. Check	Approved	Authorised		
AS SHOWN	SJW	SC	GL	DM		
Original Size	Date	Date	Date	Date		
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020		
Drawing Number						Revision
HE551459-WSP-SBR-A2E-DR-CB-2165						0
						PW Stg Code
						0

NOTES

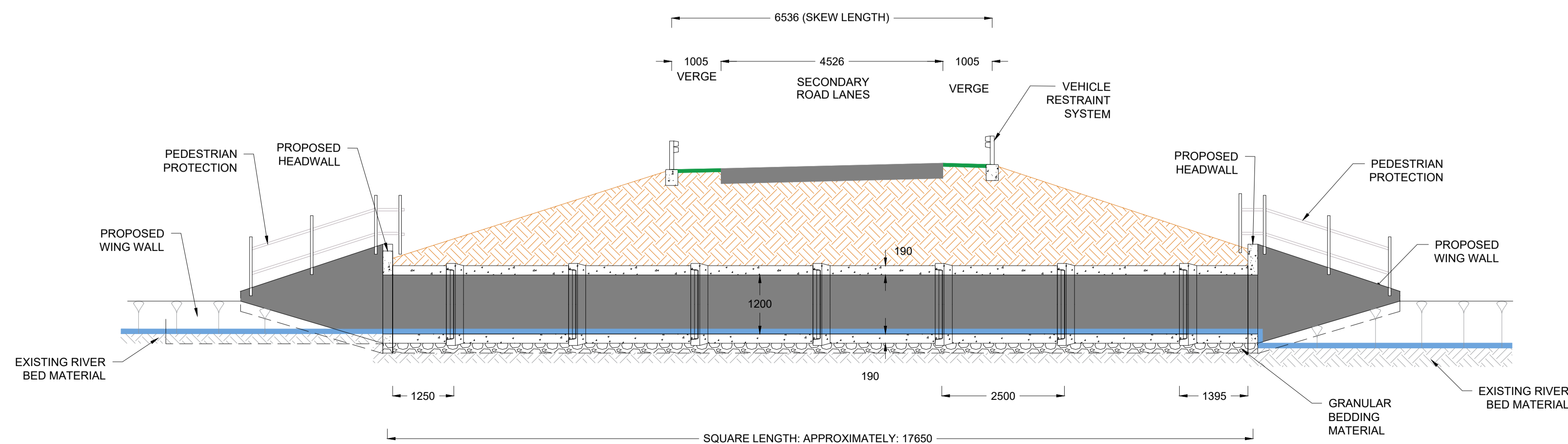
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY.



EAST ELEVATION A-A
SCALE 1:50



PLAN
SCALE 1:75



LONGITUDINAL SECTION B-B
SCALE 1:75

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA

Suitability	DCO SUBMISSION	Status	S2
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PINS Reference Number	TR010041/APP/2.8
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Client	A1 in Northumberland: Morpeth to Ellingham Part B
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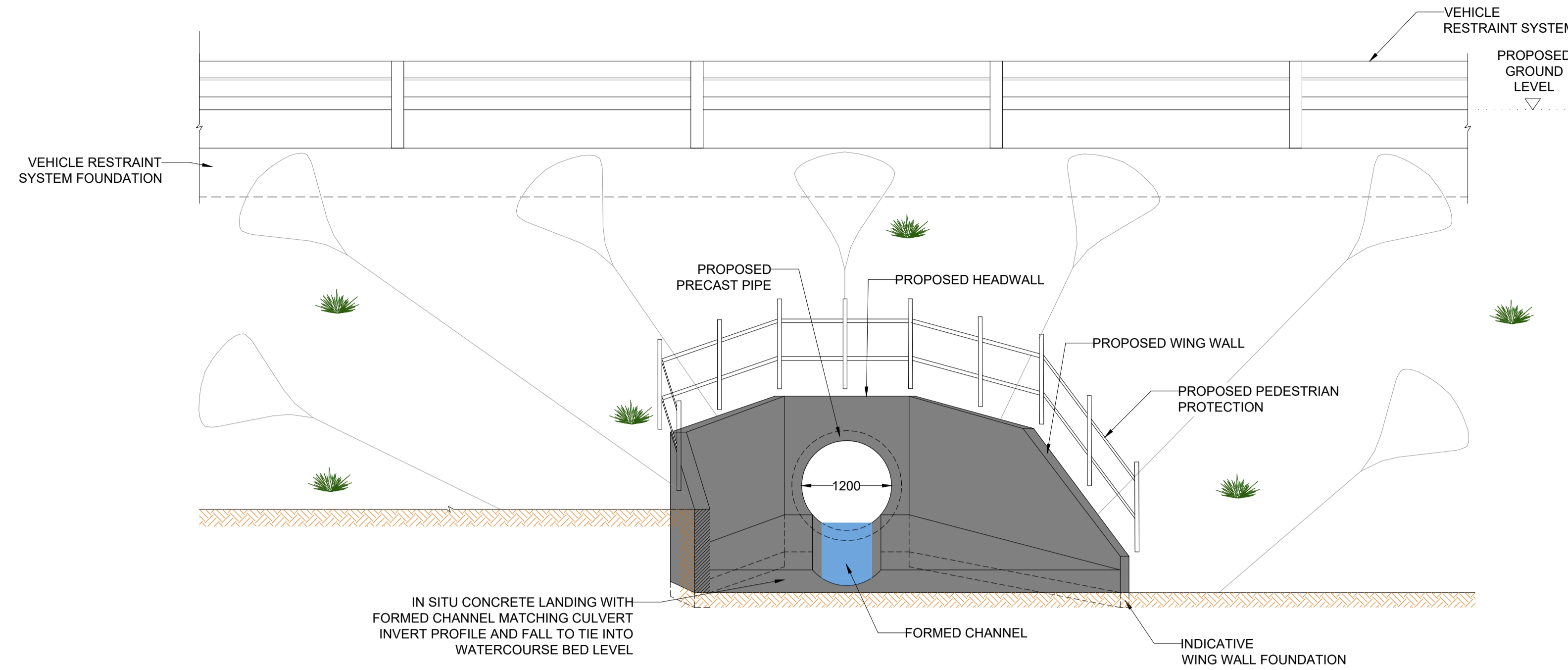
Drawing Title	STRUCTURES ENGINEERING DRAWINGS & SECTIONS ROCK CULVERT - CH.58100 SHEET 26 of 27 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)
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Scale	Drawn	Eng. Check	Approved	Authorised
AS SHOWN	SJW	SC	GL	DM
Original Size	Date	Date	Date	Date
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020

Drawing Number	HE551459-WSP-SBR-A2E-DR-CB-2166	Revision	0
		PW Stg Code	0

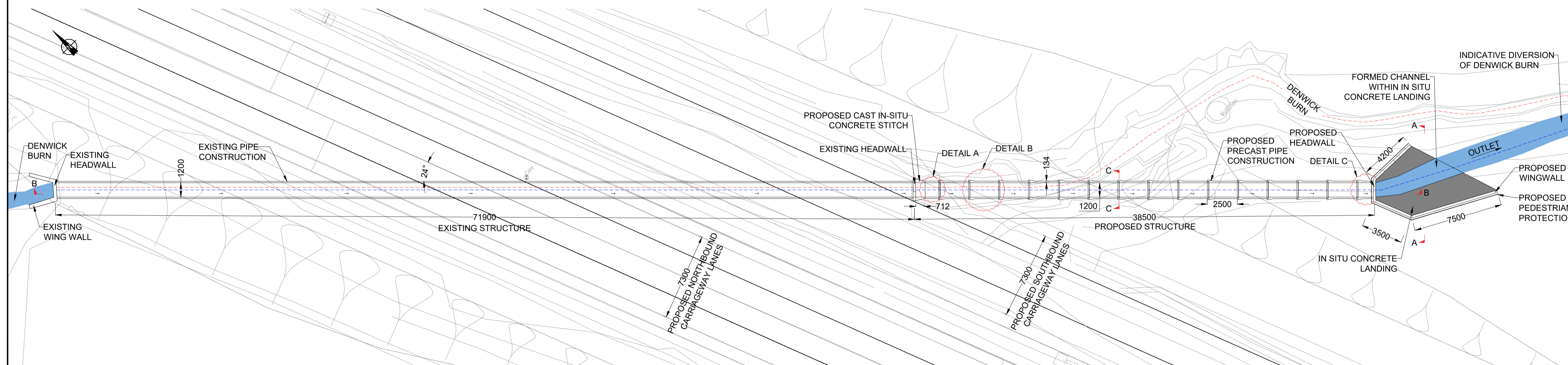
NOTES

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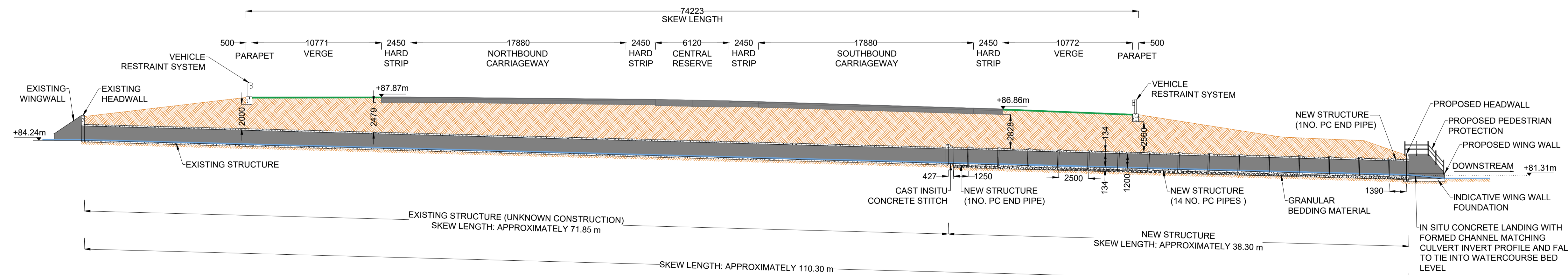
EAST ELEVATION A-A

SCALE 1:50



PLAN

SCALE 1:200



LONGITUDINAL SECTION B - B

SCALE 1:200

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	16/12/2020	AMENDMENT IN RESPONSE TO RELEVANT REPRESENTATION	EE	GL	GL	HA
0	14/04/2020	DCO SUBMISSION	ABR	FCV	GL	HA

Suitability	DCO SUBMISSION	Status	S2
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PINS Reference Number	TR010041/APP/2.8
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Client

Project Title	A1 in Northumberland: Morpeth to Ellingham Part B
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Drawing Title
STRUCTURES ENGINEERING DRAWINGS & SECTIONS
DENWICK BURN CULVERT - CH.54600
 SHEET 27 of 27
 REGULATIONS 5(2)(o), 5(2)(p) and 6(2)

Scale	Drawn	Eng. Check	Approved	Authorised
AS SHOWN	EE	FCV	GL	DM
Original Size	Date	Date	Date	Date
A1	14/04/2020	14/04/2020	14/04/2020	14/04/2020

Drawing Number	HE551459-WSP-SBR-A2E-DR-CB-2327	Revision	1
		PW Sig Code	0