

Cambridge Waste Water Treatment Plant Relocation Project
Anglian Water Services Limited

Design Plans – Highways and Site Access

Application Document Reference: 4.11
PINS Project Reference: WW010003
APFP Regulation No. 5(2)k

Revision No. 02
19th February 2024

Document title	Design Plans - Highways
Version No.	C02
Date Approved	28.01.23
Date 1st Issued	30.01.23

Version History

Version	Date	Author	Description of change
C01	30.01.23	-	DCO Submission
C02	19.02.24	-	4.11.1 & 4.11.3 updated to reflect and increase in the height of the bridge parapet. 4.11.7 is a new plan showing the routing of AILs



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1 Introduction

- 1.1.1 The ‘Design Plans - Highways’ (the Plans), listed in Table 1.1, relate to an application made by Anglian Water Services Limited (the “Applicant”) under section 37 of the Planning Act 2008 (the “2008 Act”) for a Development Consent Order (DCO) for the Cambridge Waste Water Treatment Plant Relocation Project.
- 1.1.2 The Plans are included in the DCO application in compliance with Regulation 5(2)(o) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the “2009 Regulations”), which require:
- “5(2) The application must be accompanied by—*
- (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;”*
- 1.1.3 As these Plans are part of the application documentation, they should be read alongside and are informed by the other application documentation. In particular, these Plans should be read alongside Schedule 1 (Authorised Development) of the Draft Development Consent Order (Application Document Reference 2.1) and the Works Plans (Application Document Reference 4.3).

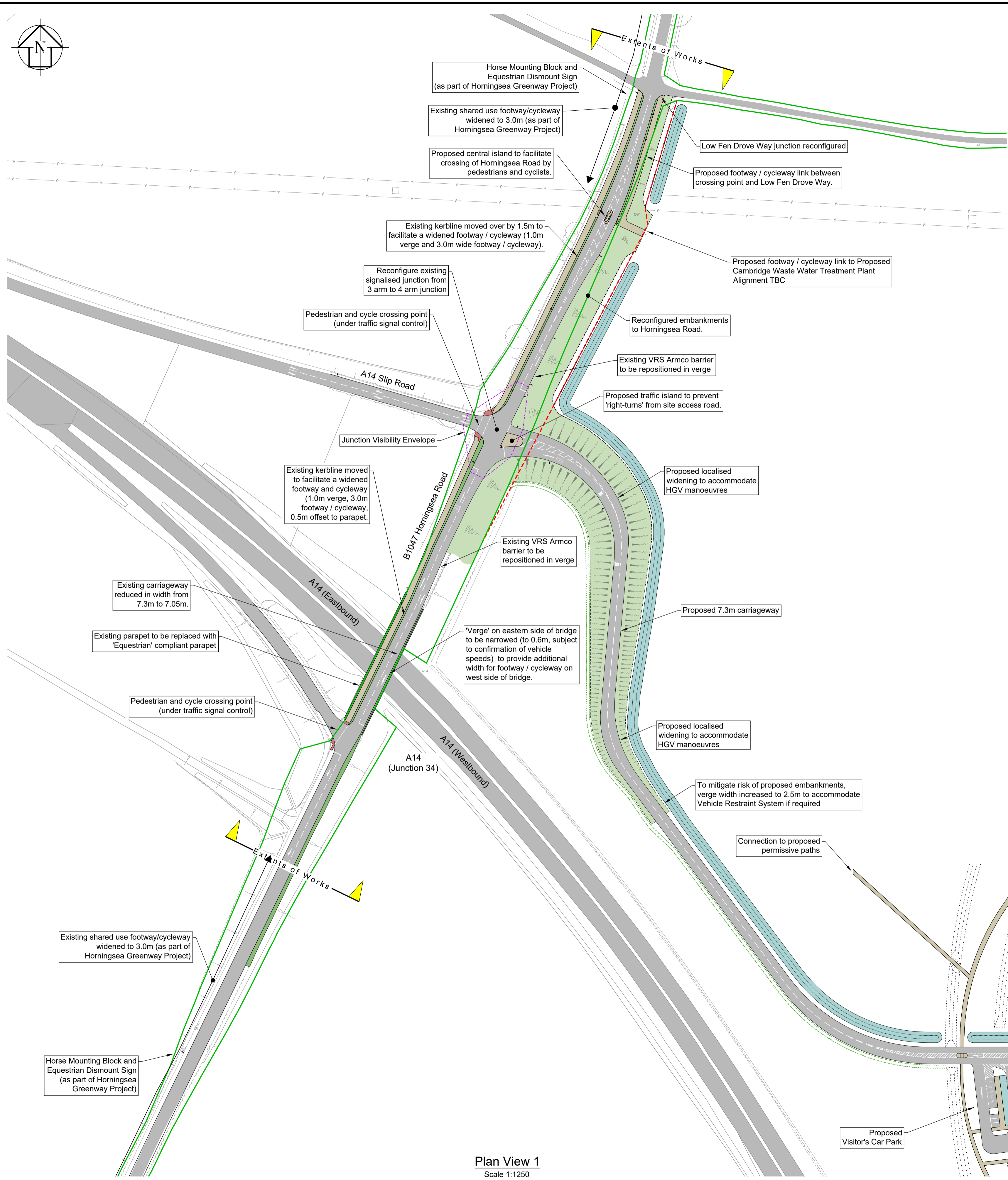
Table 1-1: Schedule of plans in this application document

Application Document Ref	Document Title	Drawing Number	Revision	Status
4.11.1	4.11.1 Design Plans – Highways (Sheet 1) Horningsea Road & Proposed WWTP Access Layout Plan	00001-100006-CAMEST-ZZZ-LAY-Z-9008	C02	S4
4.11.2	4.11.2 Design Plans – Highways (Sheet 2) Horningsea Road & Proposed WWTP Access Surface Water Drainage	00001-100006-CAMEST-ZZZ-LAY-Z-9009	C01	S4
4.11.3	4.11.3 Design Plans – Highways (Sheet 3) Horningsea Road Works Cross Sections	00001-100006-CAMEST-ZZZ-LAY-Z-9010	C02	S4

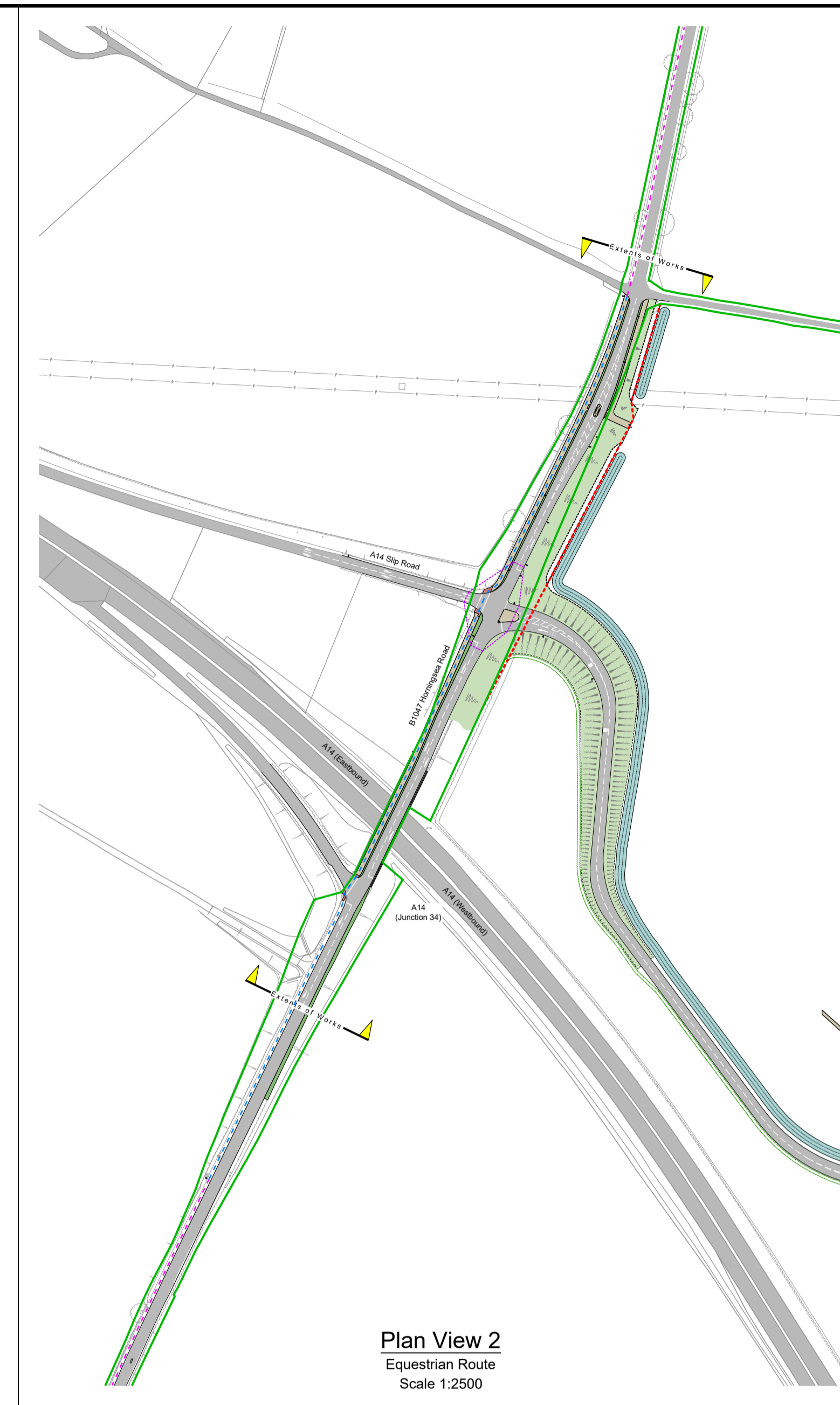
Application Document Ref	Document Title	Drawing Number	Revision	Status
4.11.4	4.11.4 Design Plans – Highways (Sheet 4) Proposed WWTP Entrance and Visitor Car Park Layout Plan	00001-100006-CAMEST-ZZZ-LAY-Z-9011	C01	S4
4.11.5	4.11.5 Design Plans – Highways (Sheet 5) Proposed WWTP Entrance and Visitor Car Park Surface Water Drainage	00001-100006-CAMEST-ZZZ-LAY-Z-9012	C01	S4
4.11.6	4.11.6 Design Plans – Highways (Sheet 6) Horningsea Road & Proposed WWTP Highway Authorities Area Plan	00001-100006-CAMEST-ZZZ-LAY-Z-9013	C01	S4
4.11.7	4.11.7 Design Plans - Highways (Sheet 7) Horningsea Road & Proposed WWTP Proposed Abnormal Indivisible Load (AIL) Vehicle Site Access Routes	00001-100006-CAMEST-ZZZ-LAY-Z-9900	C01	S4

- GENERAL NOTES**
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 - All dimensions & levels should be checked on site.
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 - The design assumes an embankment slope of 1:3 is acceptable to the relevant stakeholders.
 - The design is based on the requirements of Design Manual for Roads and Bridges.
 - Street lighting on Horningsea Road to remain as existing with minor changes to the locations of the lamp columns due to the reconfigured 'off-slip' junction and the realignment of Horningsea Road.
- 10. DRAWING MUST BE READ IN COLOUR**

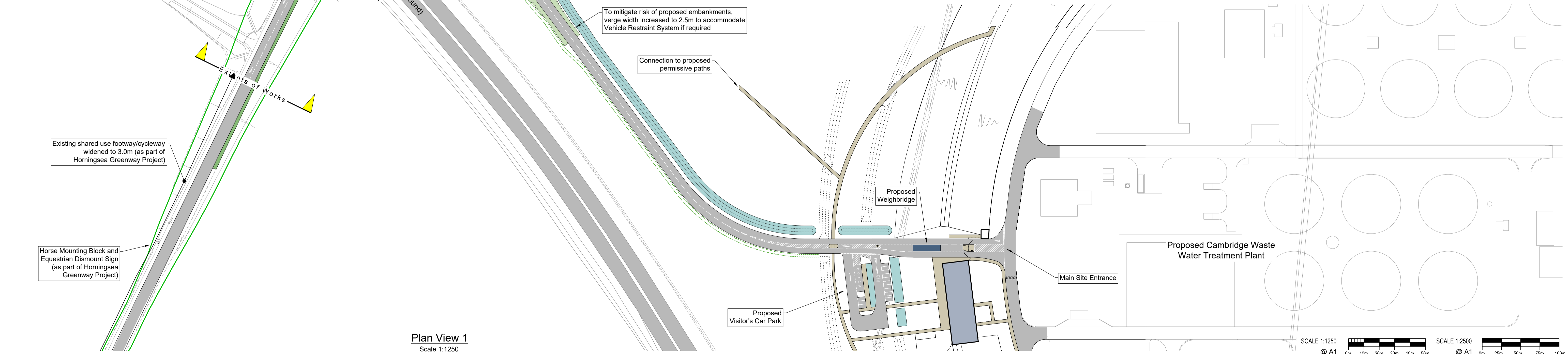
- LEGEND**
- Carriageway
 - Footway
 - Tactile Paving (Buff - Uncontrolled)
 - Tactile Paving (Red - Controlled)
 - Verge
 - Reprofiled Embankments
 - Swale
 - Proposed Building
 - Proposed Weighbridge
 - Existing Public Highway Boundary (Traced from Hardcopy Records)
 - Proposed Extension to Public Highway Boundary
 - Proposed Equestrian Route (Mounted on Horse)
 - Proposed Equestrian Route (Dismounted leading Horse)



Plan View 1
Scale 1:1250



Plan View 2
Equestrian Route
Scale 1:2500



SCALE 1:1250 @ A1 0m 10m 20m 30m 40m 50m SCALE 1:2500 @ A1 0m 25m 50m 75m 100m

DES'D: JR	DATE: 25/01/23	SCALE: As shown @A1	PROJECT TITLE
DRAWN: LWR	DATE: 25/01/23		CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT
CHK'D: AMR	DATE: 25/01/23		DRAWING TITLE
APP'D: MH	DATE: 25/01/23		4.11.1 DESIGN PLANS - HIGHWAYS (Sheet 1) HORNINGSEA ROAD & PROPOSED WWTP ACCESS LAYOUT PLAN REGULATION 5(2)(o)
REV	DATE	DETAILS	STAT BY
C02	31/01/24	FOR DCO SUBMISSION	S4 LWR AMR MH
C01	25/01/23	FOR DCO SUBMISSION	S4 LWR JR AMR

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anglianwater

Anglian Water Services Ltd, Lancaster House, Lancaster Way, Ermine Business Park, Huntingdon, PE29 6XU
Tel: 01480 323000 www.anglianwater.co.uk

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DRAWING No. **00001-100006-CAMEST-ZZZ-LAY-Z-9808**

SCALE 1:1250 @ A1 0m 10m 20m 30m 40m 50m SCALE 1:2500 @ A1 0m 25m 50m 75m 100m

A1

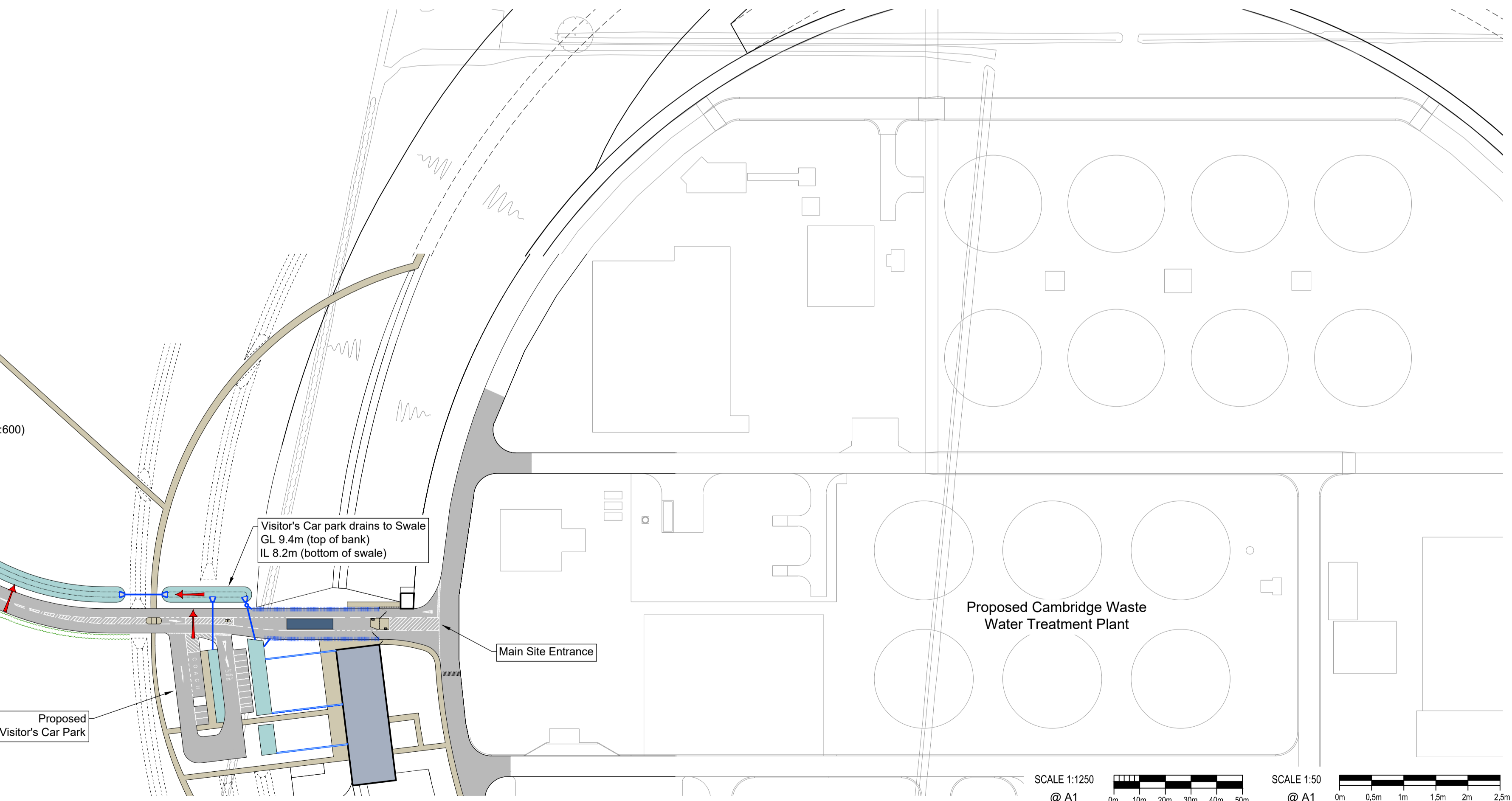
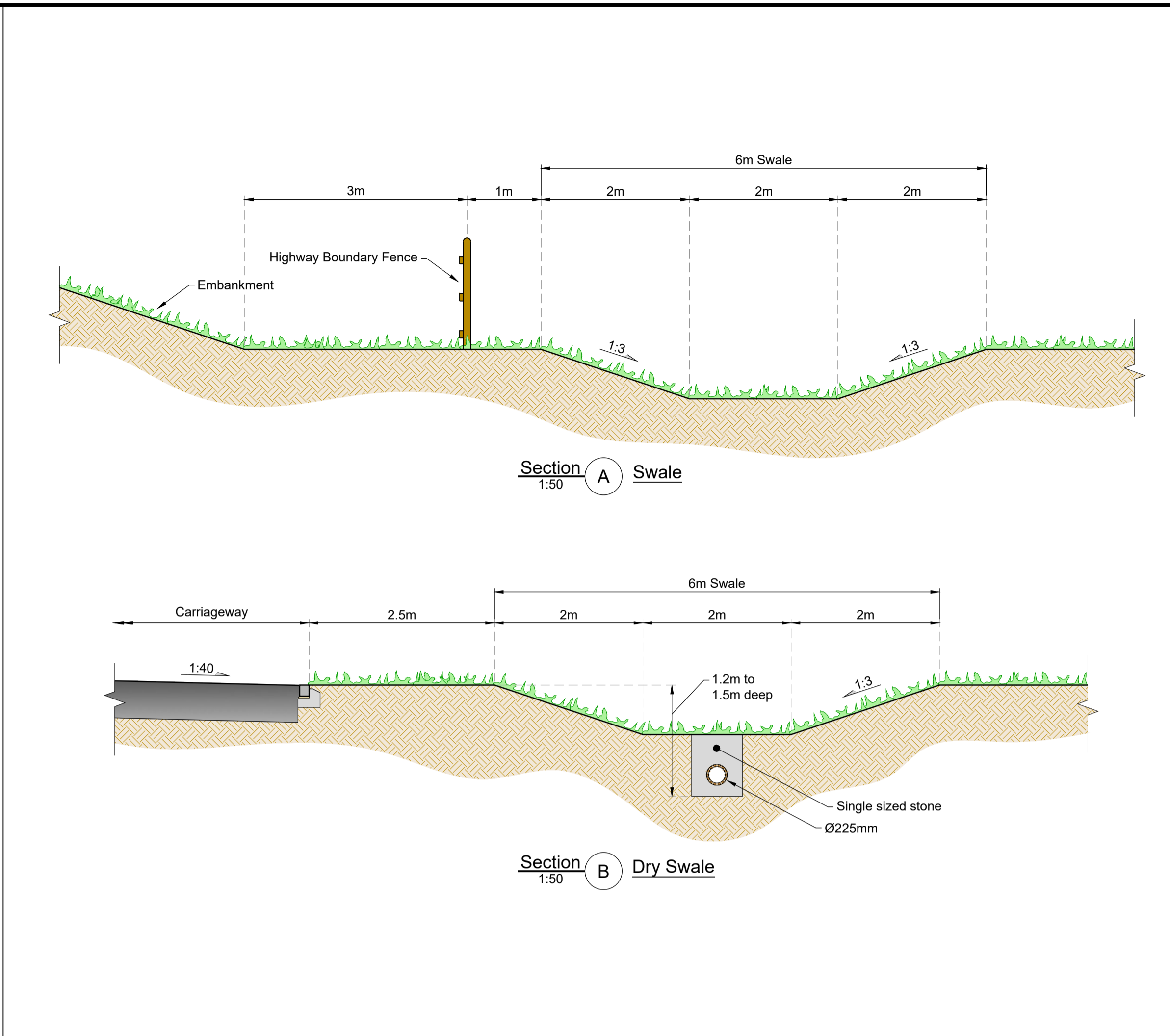
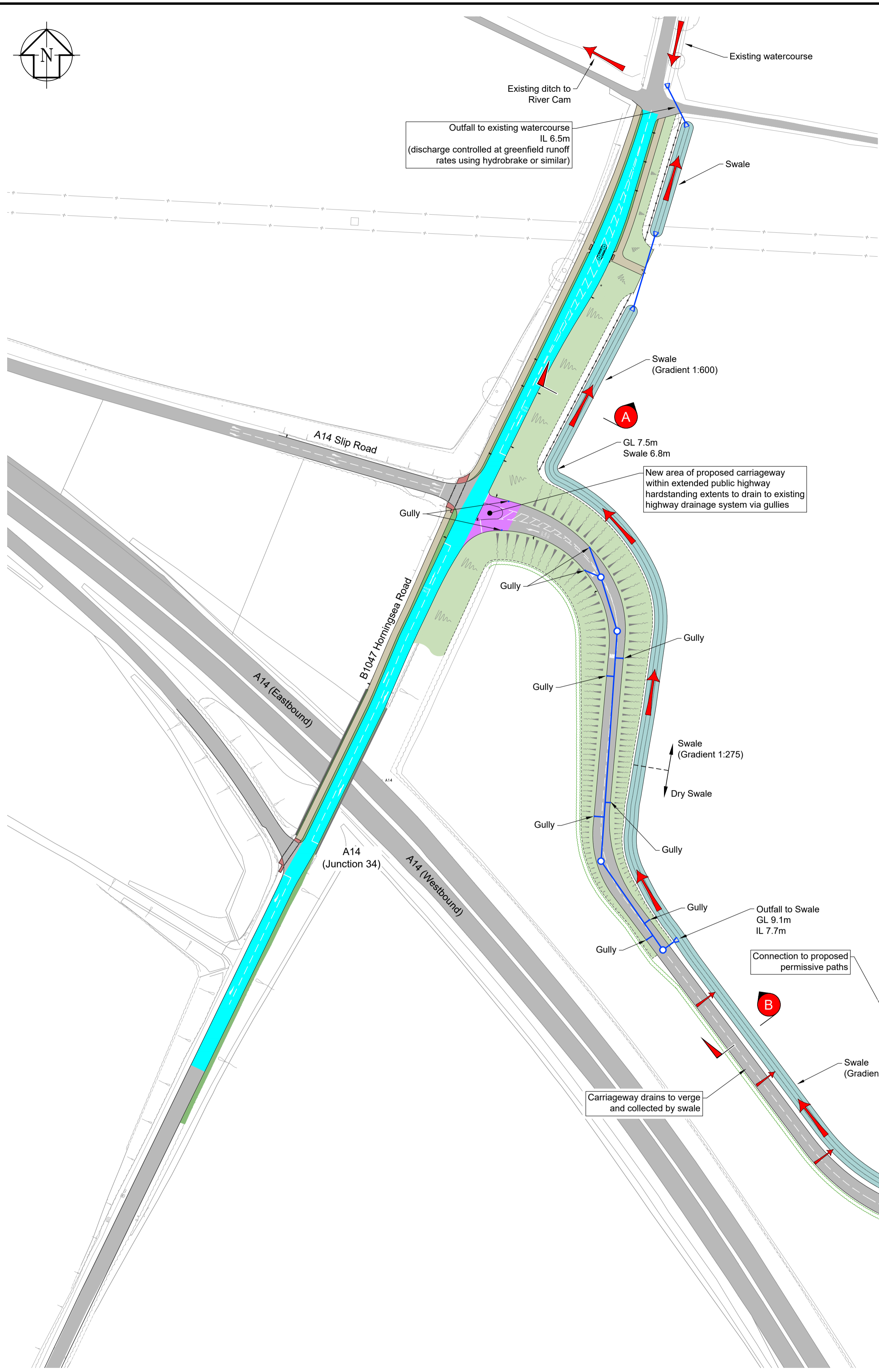
REV. STAT. **C02 S4**

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- The design assumes an embankment slope of 1:3 is acceptable to the relevant stakeholders.
- The design is based on the requirements of Design Manual for Roads and Bridges.
- The proposed drainage design assumes that a suitable discharge point is available into the existing watercourse on the eastern side of Horningsea Road.
- It is assumed that a controlled discharge into the existing watercourse at Greenfield run off rates is acceptable to the Lead Local Flood Authority.
- It is assumed that the storage volume within the SUDS swale system is sufficient to attenuate surface water flows to greenfield run off rates for a 100 year return period storm with allowance for climate change.
- The existing highway drainage system on Horningsea Road will need to be verified and surveyed to establish the location of pipes, gully connection, outfall locations etc. in order to make the proposed changes to the existing highway drainage on Horningsea Road.
- The extent of the drainage catchment includes the site access road (up to the site main gates), visitors car park and office roof drainage.
- It is assumed that existing highway drainage network on Horningsea Road is sufficient in terms of capacity and condition to accept flows from the realigned carriageway of Horningsea Road.

LEGEND

- Proposed SW Drain Pipe & Manhole
- IL Invert Level of drainage feature
- GL Ground Level
- Existing gullies within carriageway to be relocated on realigned kerblines. Existing gully connections to be reused where possible.
- Carriageway
- Footway
- Tactile Paving (Buff - Uncontrolled)
- Tactile Paving (Red - Controlled)
- Verge
- Reprofiled Embankments
- Swale
- Proposed Building
- Proposed Weighbridge



DES'D: JR	DATE: 25/01/23	SCALE: As Shown @A1
DRAWN: LWR	DATE: 25/01/23	
CHK'D: JR	DATE: 25/01/23	
APP'D: AMR	DATE: 25/01/23	

PROJECT TITLE
CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT

DRAWING TITLE
4.11.2 DESIGN PLANS - HIGHWAYS (Sheet 2) HORNINGSEA ROAD & PROPOSED WWTP SURFACE WATER DRAINAGE REGULATION 5(2)(o)



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DRAWING No. **00001-100006-CAMEST-ZZZ-LAY-Z-9809**

SCALE 1:1250 @ A1
 SCALE 1:50 @ A1



DRAWING SIZE: **A1**

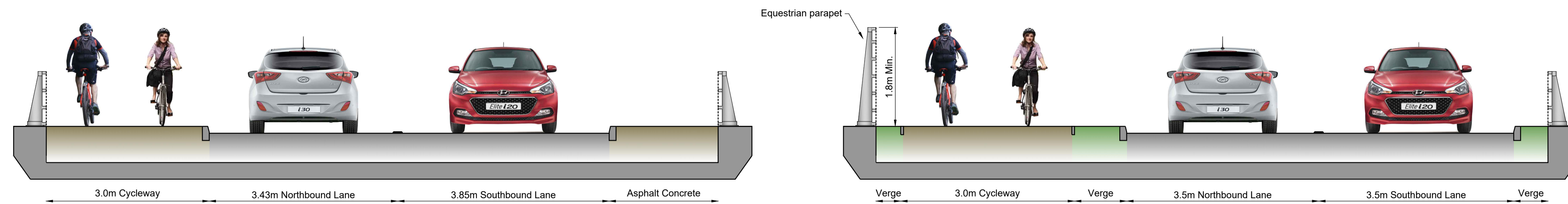
REV. STAT. **C01 S4**

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8. **DRAWING MUST BE READ IN COLOUR**

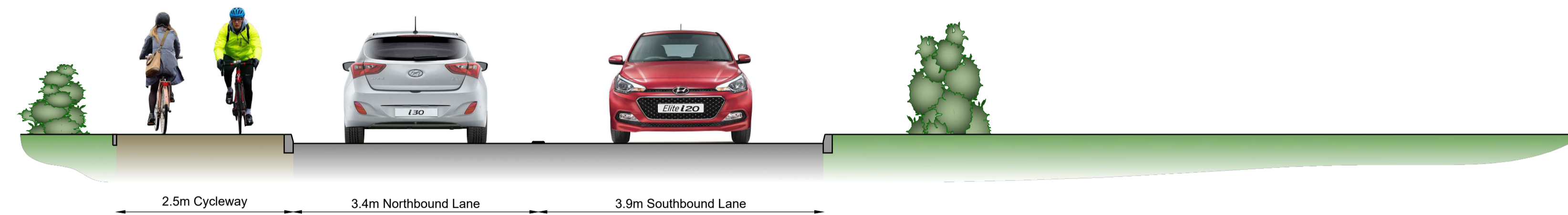
LEGEND

-  Carriageway
-  Footway
-  Tactile Paving (Buff - Uncontrolled)
-  Tactile Paving (Red - Controlled)
-  Verge
-  Reprofiled Embankments
-  Swale

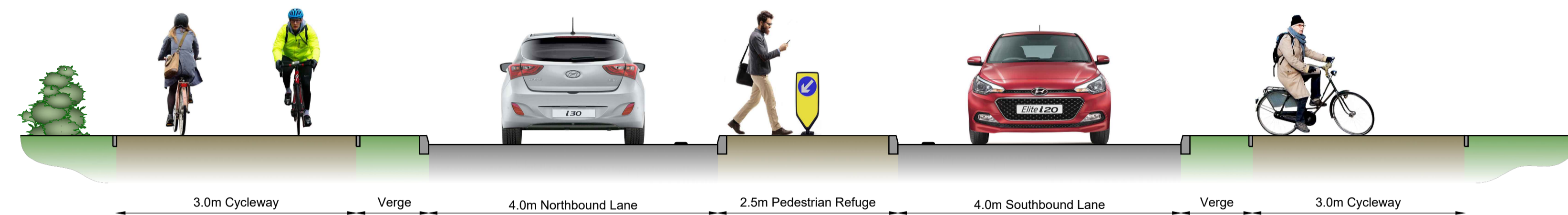


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1:50
Ex
Existing Arrangement

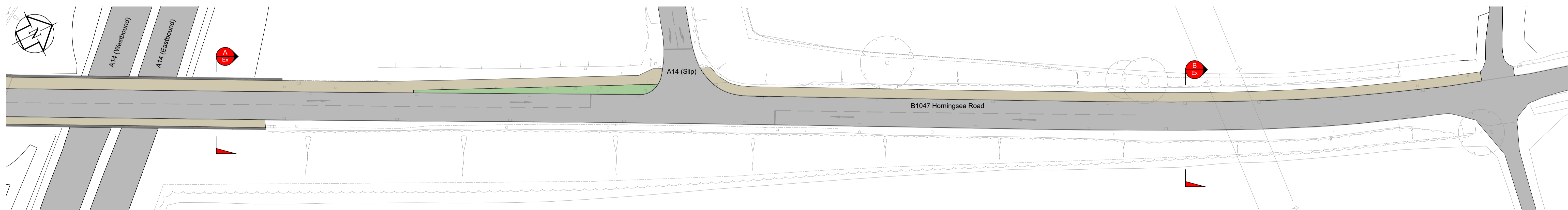
Section A
1:50
Prop
Proposed Arrangement



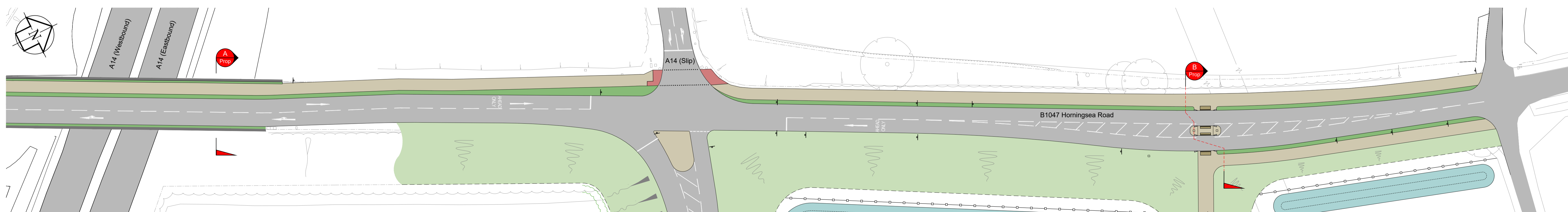
Section B
1:50
Ex
Existing Arrangement



Section B
1:50
Prop
Proposed Arrangement
(Note: Section line is staggered, as shown in Plan View)



Plan View (Existing Arrangement)
1:500 @ A1



Plan View (Proposed Arrangement)
1:500 @ A1



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C02	31/01/24	FOR DCO SUBMISSION	S4 LWR AMR MH
C01	25/01/23	FOR DCO SUBMISSION	S4 LWR JR AMR

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DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9810

SCALE 1:500 @ A1 (0m to 25m) SCALE 1:50 @ A1 (0m to 2.5m)



DRAWING SIZE: **A1**

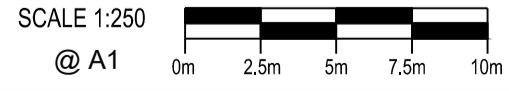
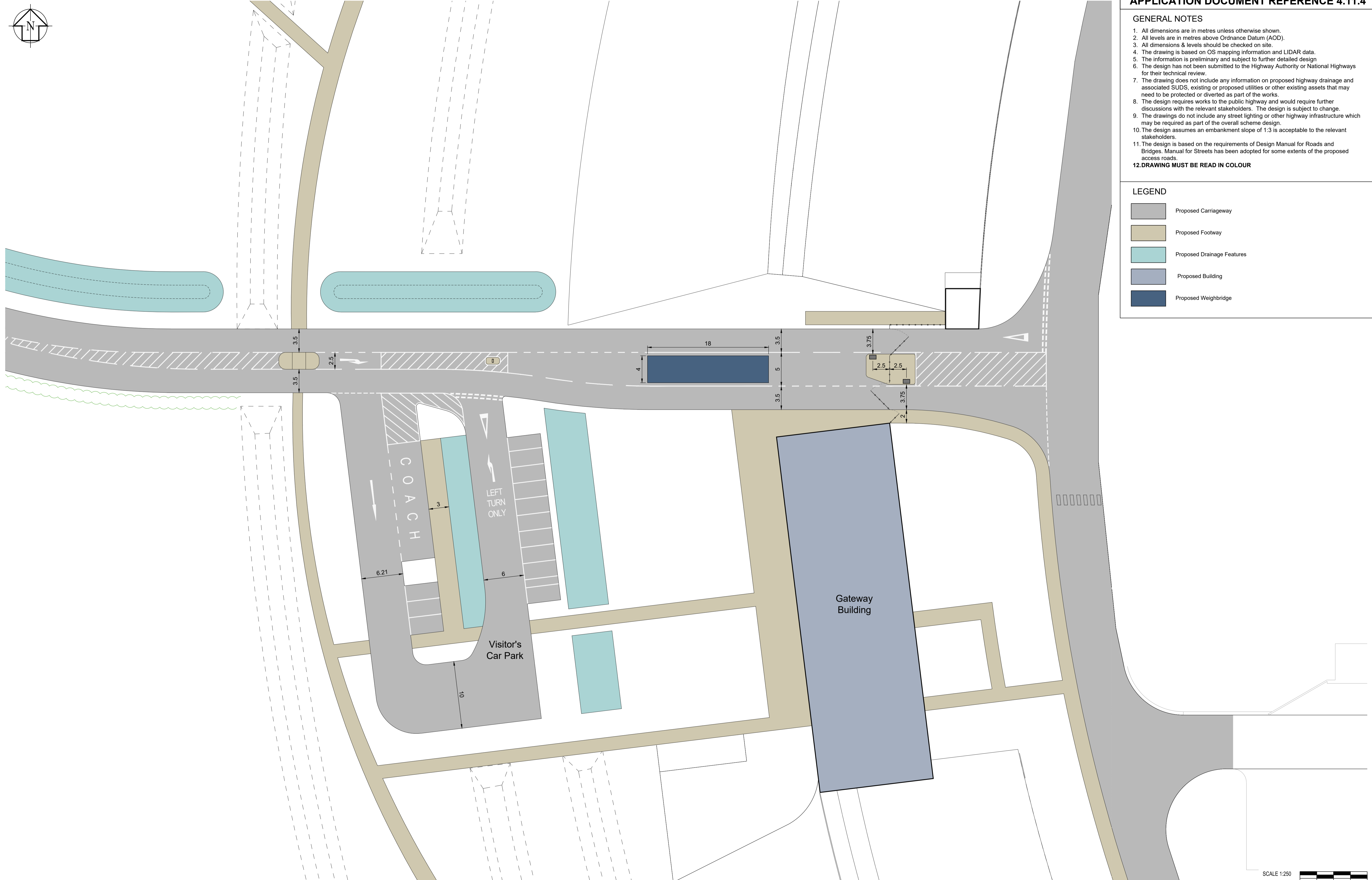
REV. STAT. C02 S4


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3. All dimensions & levels should be checked on site.
4. The drawing is based on OS mapping information and LIDAR data.
5. The information is preliminary and subject to further detailed design.
6. The design has not been submitted to the Highway Authority or National Highways for their technical review.
7. The drawing does not include any information on proposed highway drainage and associated SUDS, existing or proposed utilities or other existing assets that may need to be protected or diverted as part of the works.
8. The design requires works to the public highway and would require further discussions with the relevant stakeholders. The design is subject to change.
9. The drawings do not include any street lighting or other highway infrastructure which may be required as part of the overall scheme design.
10. The design assumes an embankment slope of 1:3 is acceptable to the relevant stakeholders.
11. The design is based on the requirements of Design Manual for Roads and Bridges. Manual for Streets has been adopted for some extents of the proposed access roads.
12. DRAWING MUST BE READ IN COLOUR

LEGEND

-  Proposed Carriageway
-  Proposed Footway
-  Proposed Drainage Features
-  Proposed Building
-  Proposed Weighbridge




DES'D: JR	DATE: 25/01/23	SCALE: 1:250	PROJECT TITLE	DRAWING TITLE	 Anglian Water Services Ltd, Lancaster House, Lancaster Way, Ermine Business Park, Huntingdon, PE29 6XU Tel: 01480 323000 www.anglianwater.co.uk	The plan is produced by Anglian Water Services Limited, from Ordnance Survey Crown Copyright, Licence 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other use of the map data or further copies are not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence. The original document stored in the BIM 360 Doc Project carry the version, suitability code, revision and approval information. Prints are uncontrolled and shall not be used for construction.	DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9811 REV. STAT. C01 S4
DRAWN: LWR	DATE: 25/01/23	SCALE: @A1	4.11.4 DESIGN PLANS - HIGHWAYS (Sheet 4)				
CHK'D: JR	DATE: 25/01/23		PROPOSED WWTP ENTRANCE AND VISITOR CAR PARK - LAYOUT PLAN				
APP'D: AMR	DATE: 25/01/23		REGULATION 5(2)(o)				
REV	DATE	DETAILS	STAT	BY	CHK	APP	

DES'D: JR	DATE: 25/01/23	SCALE: 1:250	PROJECT TITLE	DRAWING TITLE
DRAWN: LWR	DATE: 25/01/23	SCALE: @A1	CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT	4.11.4 DESIGN PLANS - HIGHWAYS (Sheet 4)
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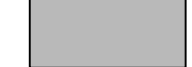








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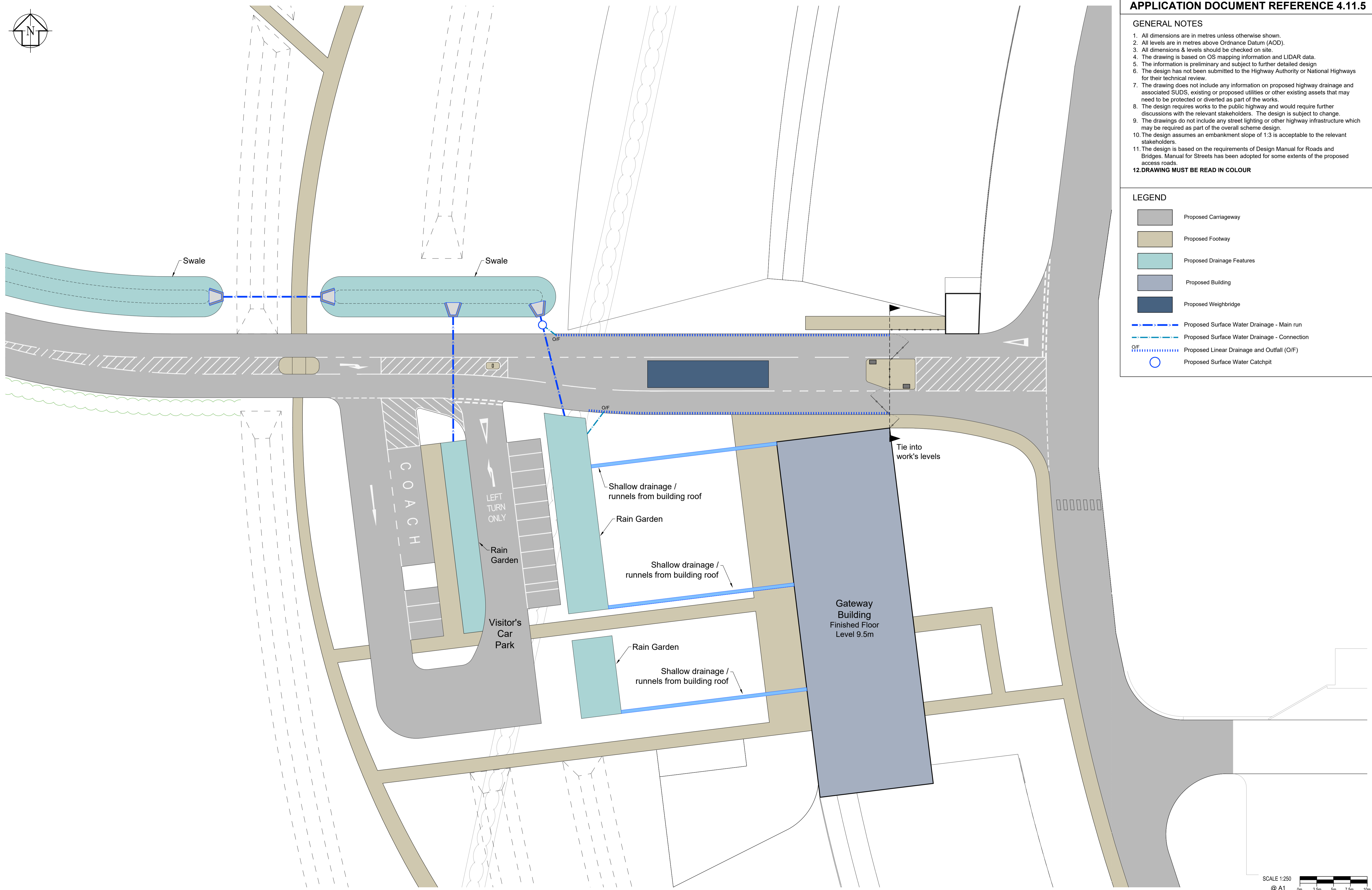
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LEGEND

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-  Proposed Footway
-  Proposed Drainage Features
-  Proposed Building
-  Proposed Weighbridge
-  Proposed Surface Water Drainage - Main run
-  Proposed Surface Water Drainage - Connection
-  Proposed Linear Drainage and Outfall (O/F)
-  Proposed Surface Water Catchpit

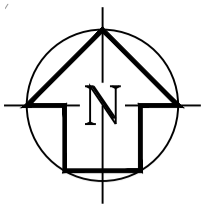


SCALE 1:250
@ A1

DES'D: JR	DATE: 25/01/23	SCALE: 1:250	PROJECT TITLE	DRAWING TITLE	 <p>Anglian Water Services Ltd, Lancaster House, Lancaster Way, Ermine Business Park, Huntingdon, PE29 6XU Tel: 01480 323000 www.anglianwater.co.uk</p>	<p>The plan is produced by Anglian Water Services Limited, from Ordnance Survey Crown Copyright, Licence 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other use of the map data or further copies are not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.</p> <p>The original document stored in the BIM 360 Doc Project carry the version, suitability code, revision and approval information. Prints are uncontrolled and shall not be used for construction.</p>	<p>DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9812</p>	
DRAWN: LWR	DATE: 25/01/23	SCALE: @A1	CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT	4.11.5 DESIGN PLANS - HIGHWAYS (Sheet 5) PROPOSED WWTP ENTRANCE AND VISITOR CAR PARK SURFACE WATER DRAINAGE REGULATION 5(2)(o)				
CHK'D: JR	DATE: 25/01/23							
APP'D: AMR	DATE: 25/01/23							
REV	DATE	DETAILS	STAT	BY	CHK	APP	REV.	STAT.

DRAWING SIZE: **A1**

REV. STAT. C01 S4








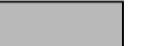






APPLICATION DOCUMENT REFERENCE 4.11.6

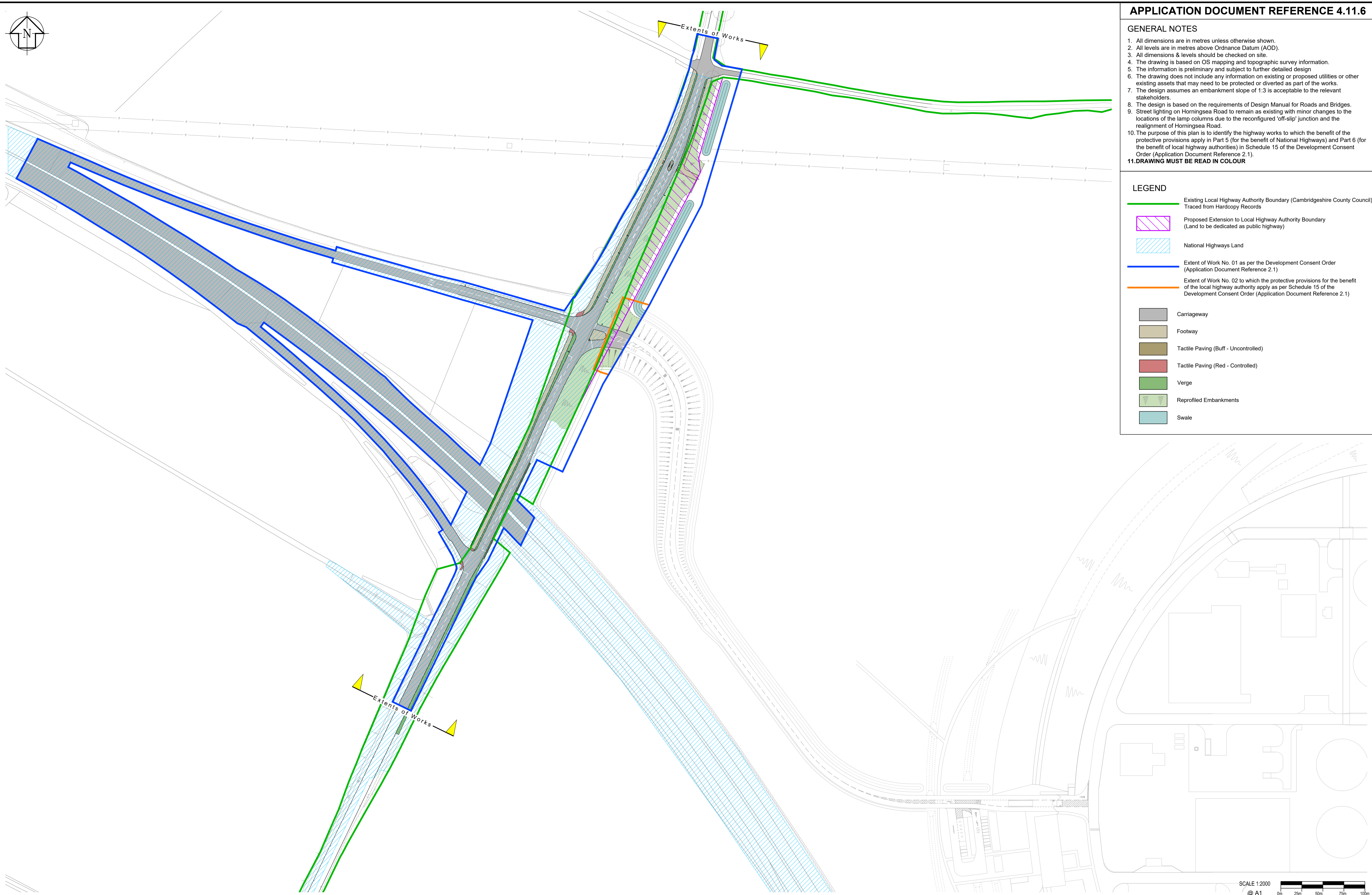
GENERAL NOTES

- All dimensions are in metres unless otherwise shown.
- All levels are in metres above Ordnance Datum (AOD).
- All dimensions & levels should be checked on site.
- The drawing is based on OS mapping and topographic survey information.
- The information is preliminary and subject to further detailed design.
- The drawing does not include any information on existing or proposed utilities or other existing assets that may need to be protected or diverted as part of the works.
- The design assumes an embankment slope of 1:3 is acceptable to the relevant stakeholders.
- The design is based on the requirements of Design Manual for Roads and Bridges.
- Street lighting on Horningsea Road to remain as existing with minor changes to the locations of the lamp columns due to the reconfigured 'off-slip' junction and the realignment of Horningsea Road.
- The purpose of this plan is to identify the highway works to which the benefit of the protective provisions apply in Part 5 (for the benefit of National Highways) and Part 6 (for the benefit of local highway authorities) in Schedule 15 of the Development Consent Order (Application Document Reference 2.1).

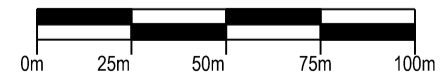
11. DRAWING MUST BE READ IN COLOUR

LEGEND

-  Existing Local Highway Authority Boundary (Cambridgeshire County Council)
Traced from Hardcopy Records
-  Proposed Extension to Local Highway Authority Boundary
(Land to be dedicated as public highway)
-  National Highways Land
-  Extent of Work No. 01 as per the Development Consent Order
(Application Document Reference 2.1)
-  Extent of Work No. 02 to which the protective provisions for the benefit
of the local highway authority apply as per Schedule 15 of the
Development Consent Order (Application Document Reference 2.1)
-  Carriageway
-  Footway
-  Tactile Paving (Buff - Uncontrolled)
-  Tactile Paving (Red - Controlled)
-  Verge
-  Reprofiled Embankments
-  Swale



SCALE 1:2000
@ A1



DES'D: JR	DATE: 25/01/23	SCALE: 1:2000	PROJECT TITLE			
DRAWN: LWR	DATE: 25/01/23	@A1	CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT			
CHK'D: JR	DATE: 25/01/23		DRAWING TITLE			
APP'D: AMR	DATE: 25/01/23		4.11.6 DESIGN PLANS - HIGHWAYS (Sheet 6) HORNINGSEA ROAD & PROPOSED WWTP HIGHWAY AUTHORITIES AREA PLAN REGULATION 5(2)(o)			
REV	DATE	DETAILS	STAT	BY	CHK	APP
C01	25/01/23	FOR DCO SUBMISSION	S4	LWR	JR	AMR

DES'D: JR	DATE: 25/01/23	SCALE: 1:2000	PROJECT TITLE			
DRAWN: LWR	DATE: 25/01/23	@A1	CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT			
CHK'D: JR	DATE: 25/01/23		DRAWING TITLE			
APP'D: AMR	DATE: 25/01/23		4.11.6 DESIGN PLANS - HIGHWAYS (Sheet 6) HORNINGSEA ROAD & PROPOSED WWTP HIGHWAY AUTHORITIES AREA PLAN REGULATION 5(2)(o)			
REV	DATE	DETAILS	STAT	BY	CHK	APP
C01	25/01/23	FOR DCO SUBMISSION	S4	LWR	JR	AMR

DES'D: JR	DATE: 25/01/23	SCALE: 1:2000	PROJECT TITLE			
DRAWN: LWR	DATE: 25/01/23	@A1	CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT			
CHK'D: JR	DATE: 25/01/23		DRAWING TITLE			
APP'D: AMR	DATE: 25/01/23		4.11.6 DESIGN PLANS - HIGHWAYS (Sheet 6) HORNINGSEA ROAD & PROPOSED WWTP HIGHWAY AUTHORITIES AREA PLAN REGULATION 5(2)(o)			
REV	DATE	DETAILS	STAT	BY	CHK	APP
C01	25/01/23	FOR DCO SUBMISSION	S4	LWR	JR	AMR

DES'D: JR	DATE: 25/01/23	SCALE: 1:2000	PROJECT TITLE			
DRAWN: LWR	DATE: 25/01/23	@A1	CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT			
CHK'D: JR	DATE: 25/01/23		DRAWING TITLE			
APP'D: AMR	DATE: 25/01/23		4.11.6 DESIGN PLANS - HIGHWAYS (Sheet 6) HORNINGSEA ROAD & PROPOSED WWTP HIGHWAY AUTHORITIES AREA PLAN REGULATION 5(2)(o)			
REV	DATE	DETAILS	STAT	BY	CHK	APP
C01	25/01/23	FOR DCO SUBMISSION	S4	LWR	JR	AMR

anglianwater

Anglian Water Services Ltd, Lancaster House,
Lancaster Way, Ermine Business Park, Huntingdon,
PE29 6XU
Tel: 01480 323000 www.anglianwater.co.uk

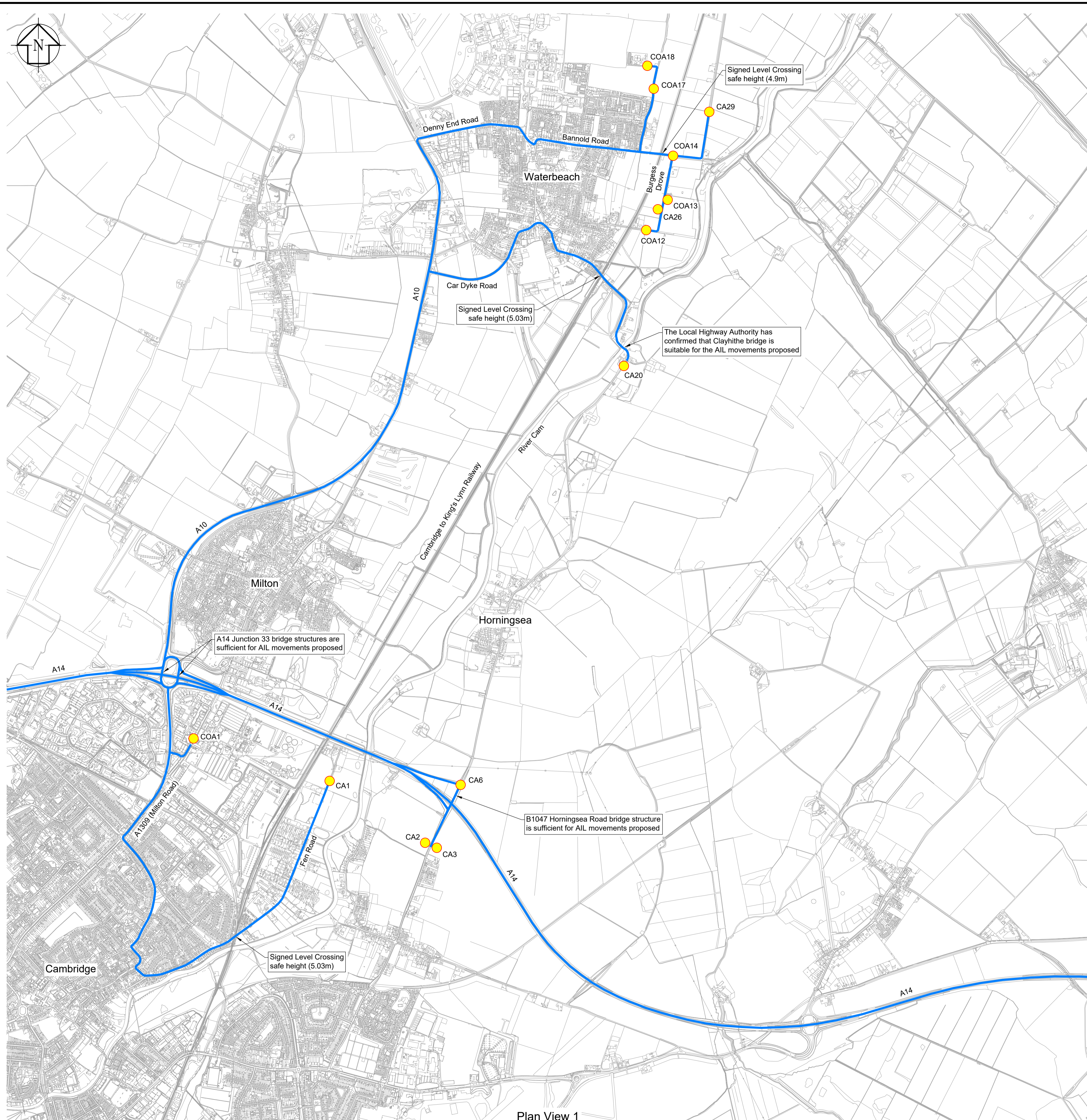
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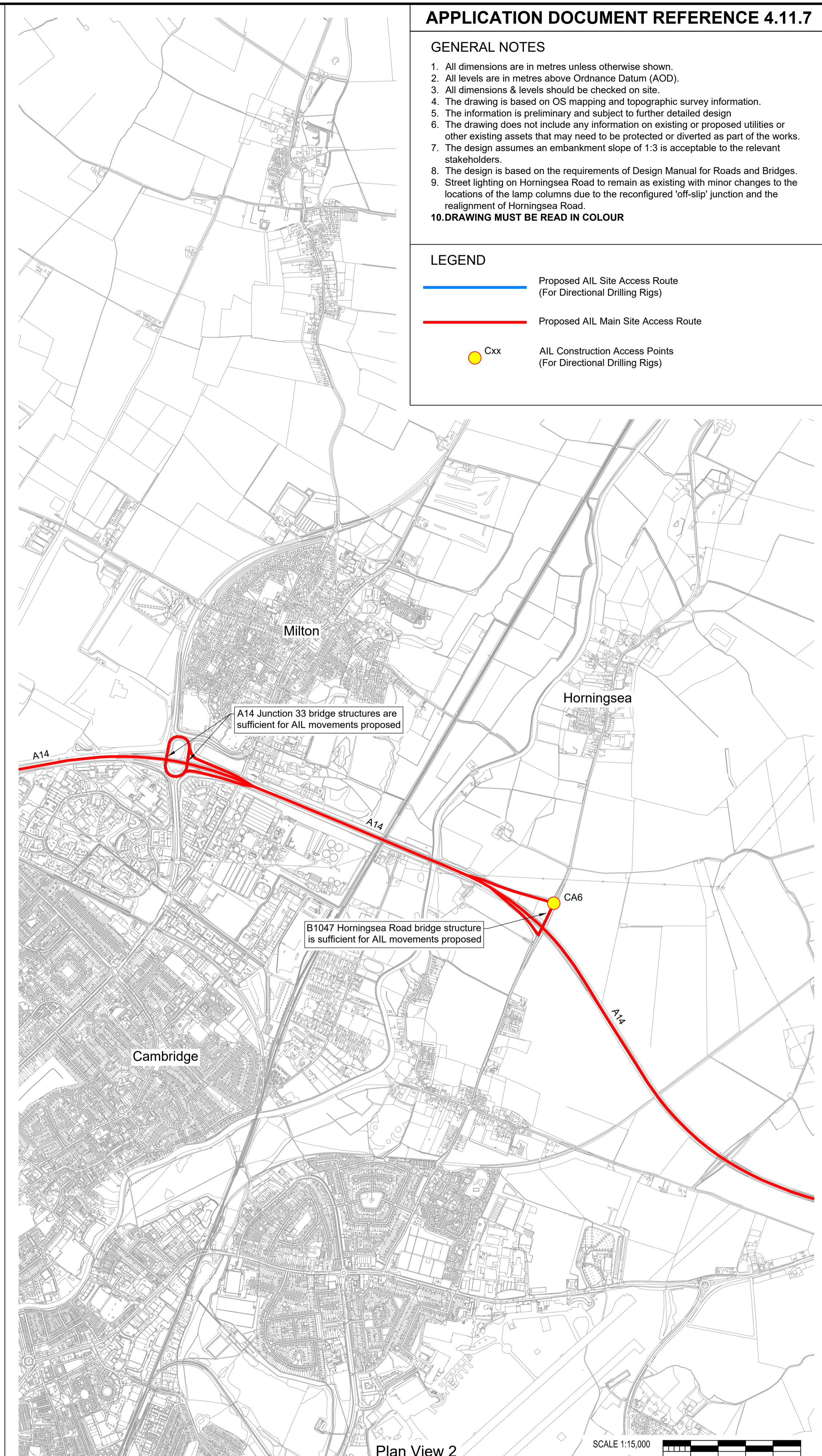
DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9813

DRAWING SIZE: **A1**

REV.	STAT.
C01	S4



Plan View 1



Plan View 2

GENERAL NOTES

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2. All levels are in metres above Ordnance Datum (AOD).
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5. The information is preliminary and subject to further detailed design.
6. The drawing does not include any information on existing or proposed utilities or other existing assets that may need to be protected or diverted as part of the works.
7. The design assumes an embankment slope of 1:3 is acceptable to the relevant stakeholders.
8. The design is based on the requirements of Design Manual for Roads and Bridges.
9. Street lighting on Horningsea Road to remain as existing with minor changes to the locations of the lamp columns due to the reconfigured 'off-slip' junction and the realignment of Horningsea Road.
10. **DRAWING MUST BE READ IN COLOUR**

LEGEND

- Proposed AIL Site Access Route (For Directional Drilling Rigs)
- Proposed AIL Main Site Access Route
- Cxx AIL Construction Access Points (For Directional Drilling Rigs)

SCALE 1:15,000
@ A1

DES'D: AJM	DATE: 31/01/24	SCALE: 1:15,000 @A1	PROJECT TITLE	DRAWING TITLE		The plan is produced by Anglian Water Services Limited, from Ordnance Survey Crown Copyright, Licence 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other use of the map data or further copies are not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence. The original document stored in the BIM 360 Doc Project carry the version, suitability code, revision and approval information. Prints are uncontrolled and shall not be used for construction.	DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9900
DRAWN: LWR	DATE: 31/01/24	CHK'D: AMR	DATE: 31/01/24	APP'D: MH			
C02 14/02/24 FOR DCO SUBMISSION	S4 LWR AMR MH	STAT BY	CHK APP				
C01 31/01/24 FOR DCO SUBMISSION	S4 LWR AMR MH						
REV DATE DETAILS							

DES'D: AJM	DATE: 31/01/24	SCALE: 1:15,000 @A1	PROJECT TITLE	DRAWING TITLE
DRAWN: LWR	DATE: 31/01/24		CHK'D: AMR	DATE: 31/01/24
			APP'D: MH	DATE: 31/01/24

CAMBRIDGE WASTE WATER TREATMENT PLANT RELOCATION PROJECT

4.11.7 DESIGN PLANS - HIGHWAYS (Sheet 7) HORNINGSEA ROAD & PROPOSED WWTP PROPOSED ABNORMAL INDIVISIBLE LOAD (AIL) VEHICLE SITE ACCESS ROUTES REGULATION 5(2)(o)

anglianwater
Anglian Water Services Ltd, Lancaster House, Lancaster Way, Ermine Business Park, Huntingdon, PE29 6XJ
Tel: 01480 323000 www.anglianwater.co.uk

A1
DRAWING No. 00001-100006-CAMEST-ZZZ-LAY-Z-9900
REV. STAT. C02 S4

Get in touch

You can contact us by:



Emailing at info@cwwtpr.com



Calling our Freephone information line on **0808 196 1661**



Writing to us at **Freepost: CWWTPR**

You can view all our DCO application documents and updates on the application on The Planning Inspectorate website:

<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambridge-waste-water-treatment-plant-relocation/>