

Lower Thames Crossing

2.16 Drainage Plans Volume B (sheets 1 to 20) (Clean version)

APFP Regulation 5(2)(o)

Infrastructure Planning (Applications:
Prescribed Forms and Procedure)
Regulations 2009

Volume 2

DATE: December 2023
DEADLINE: 9

Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/2.16

VERSION: 5.0

Revision History

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	19 September 2023	Deadline 4
3.0	31 October 2023	Deadline 6
4.0	17 November 2023	Deadline 7
5.0	11 December 2023	Deadline 9

Lower Thames Crossing

2.16 Drainage Plans

Volume B (sheets 1 to 20)

(Clean version)

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1 Introduction

- 1.1.1 This document is submitted to the Planning Inspectorate on behalf of the Secretary of State in relation to an application made by National Highways (the Applicant) under section 37 of the Planning Act 2008.
- 1.1.2 The application is for the grant of development consent for the A122 Lower Thames Crossing. Should development consent be granted, the draft A122 (Lower Thames Crossing) Development Consent Order (Application Document 3.1) (the draft Order) will be made by the Secretary of State (subject to any modifications considered appropriate).
- 1.1.3 This document comprises part of the suite of application documentation and is included in the application to comply with Regulations 5(2)(o) and Regulation 5(4) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, which require:
- 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(4) Where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets.'*
- 1.1.4 The purpose of the Drainage Plans is to show the key features of the drainage design of the Project for which development consent is sought. Each sheet shows the relevant drainage design within the area shown. The highways design is shown in the background on the Drainage Plans for illustrative purposes and specifically to provide context and aid understanding of the works.
- 1.1.5 This plan set numbers all the proposed wetland and infiltration basins shown in the design. The works numbers provided are shown in the Works Plans (Application Document 2.6) and defined in Schedule 1 of the draft Order (Application Document 3.1).
- 1.1.6 Each sheet shows the relevant drainage design and works numbers applicable within the area shown. Reference should be made to the next relevant sheet for details of works numbers beyond the cut lines. Other information on the Drainage Plans is shown beyond the cut lines for completeness and context.
- 1.1.7 To ensure sufficient detail and clarity of information, the Drainage Plans (sheets 1 to 49) have been prepared at a scale of 1:2500. The key plan uses a smaller scale than that prescribed in Regulation 5(3) of the 2009 Regulations so that the Project can be represented on a single sheet plan.
- 1.1.8 The Applicant has adopted the same consistent approach for Drainage Plans as has been used for the following:
- a. Land Plans (Application Document 2.2)
 - b. Crown Land Plans (Application Document 2.3)

- c. Special Category Land Plans (Application Document 2.4)
 - d. General Arrangement Plans (Application Document 2.5)
 - e. Works Plans (Application Document 2.6)
 - f. Rights of Way and Access Plans (Application Document 2.7)
 - g. Streets Subject to Temporary Restrictions of Use Plans (Application Document 2.8)
 - h. Traffic Regulation Measures Plans (Application Document 2.10)
 - i. Temporary Works Plans (Application Document 2.17)
 - j. Hedgerow and Tree Preservations Order Plans (Application Document 2.18)
- 1.1.9 The information contained on each sheet of the Drainage Plans corresponds with the geographical information shown on each sheet of the aforementioned sets. This is intended to help interested parties understand the inter-relationship between the different sets of plans and to help illustrate the design of the Project more clearly.
- 1.1.10 This approach means that there are some sheets that cover an area of the Project where there is no drainage design. On these sheets, the Applicant has introduced a label stating: 'No design information on this sheet'.
- 1.1.11 The Drainage Plans show the Order Limits and the relevant local authority boundaries. In this plan set, 'the Order Limits' mean the limits of lands to be acquired or used, permanently or temporarily, within which the authorised development may be carried out, as set out in Article 2 of the draft Order (Application Document 3.1).
- 1.1.12 This plan set uses a different legend on all sheets: it shows a consistent base key (presented across the plan set) followed by a sheet-specific key for catchment areas and outfalls. This means that there may be some items shown in the key that are not on a given sheet.
- 1.1.13 As this document has been informed by and is part of the application documentation it should be read alongside the other application documents. In particular, the plans should be read alongside Schedule 1 of the draft Order (Application Document 3.1).
- 1.1.14 To ensure that the file size of this document does not exceed the 50MB limit prescribed by the Planning Inspectorate, the set has been split into three volumes: volume A contains the key plan, volume B the initial sheets 1 to 20 and volume C contains the following sheets, 21 to 49.
- 1.1.15 These plans have been updated for Deadline 4 to include the proposed changes MRC01, MRC02 and MRC03 following the procedural decision made by the Examining Authority [[PD-031](#)].
- 1.1.16 These plans have been updated for Deadline 6 to address minor inaccuracies following engagement with relevant stakeholders.

- 1.1.17 These plans have been updated for Deadline 7 to include the proposed amendment EA07, as detailed in Deadline 5 cover letter [[REP5-001](#)].
- 1.1.18 These plans have been updated for Deadline 9 to include all agreed proposed changes and amendments throughout Examination.

2 Schedule of Plans included in this application document

Document Title	Document Number	Revision
DRAINAGE PLANS REGULATION 5(2)(o) KEY PLAN	TR010032/APP/2.16	P06
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 1	TR010032/APP/2.16	P03
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 2	TR010032/APP/2.16	P03
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 3	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 4	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 5	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 6	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 7	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 8	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 9	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 10	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 11	TR010032/APP/2.16	P02

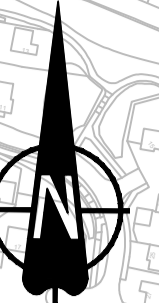
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DRAINAGE PLANS REGULATION 5(2)(o) SHEET 12	TR010032/APP/2.16	P02
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DRAINAGE PLANS REGULATION 5(2)(o) SHEET 14	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 15	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 16	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 17	TR010032/APP/2.16	P03
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DRAINAGE PLANS REGULATION 5(2)(o) SHEET 19	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 20	TR010032/APP/2.16	P03
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 21	TR010032/APP/2.16	P03
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 22	TR010032/APP/2.16	P03
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 23	TR010032/APP/2.16	P04
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 24	TR010032/APP/2.16	P03

Document Title	Document Number	Revision
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 25	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 26	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 27	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 28	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 29	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 30	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 31	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 32	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 33	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 34	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 35	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 36	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 37	TR010032/APP/2.16	P02

Document Title	Document Number	Revision
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 38	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 39	TR010032/APP/2.16	P02
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DRAINAGE PLANS REGULATION 5(2)(o) SHEET 47	TR010032/APP/2.16	P02
DRAINAGE PLANS REGULATION 5(2)(o) SHEET 48	TR010032/APP/2.16	P02
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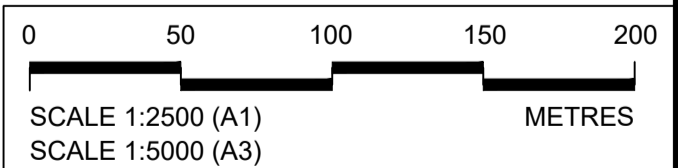
Sheet 2
Sheet 1

Sheet 2
Sheet 1



**NO DESIGN INFORMATION ON THIS SHEET
FOR DRAINAGE PLANS**

Westfield Wood
Nature Reserve



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	19/09/2023	Deadline 4	MS	RO	ASB
P03	S8	11/12/2023	Deadline 9	SA	RO	ASB

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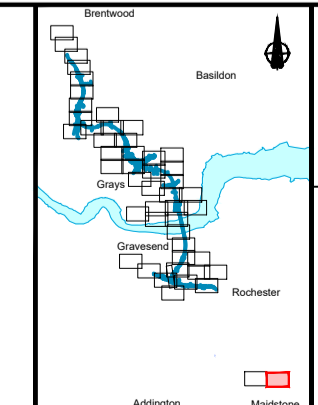
- The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
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- Where proposed catchment areas boundaries overlap with each other or the Order Limits they are shown adjacent to each other or the Order Limit to provide greater visual clarity but these could extend to the boundary of other catchment areas or the Order Limits as well.

LEGEND:

- BOUNDARIES**
- Order Limits
 - Local Authority boundary
 - Existing watercourse

PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale
- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



Client
national highways

Project
LOWER THAMES CROSSING

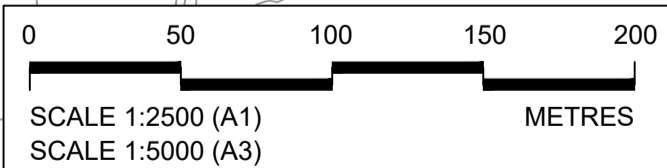
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Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_DR-CD-10048			



Sheet 2
Sheet 1

Sheet 2
Sheet 1

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FOR DRAINAGE PLANS**



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	19/09/2023	Deadline 4	MS	RO	ASB
P03	S8	11/12/2023	Deadline 9	SA	RO	ASB

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LEGEND:

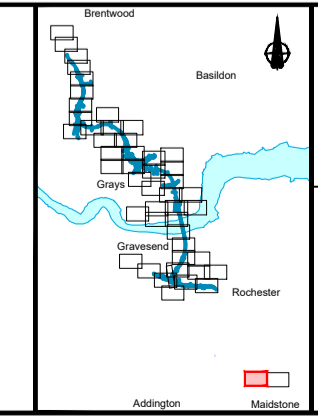
BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale

- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



Client
national highways

Project
LOWER THAMES CROSSING

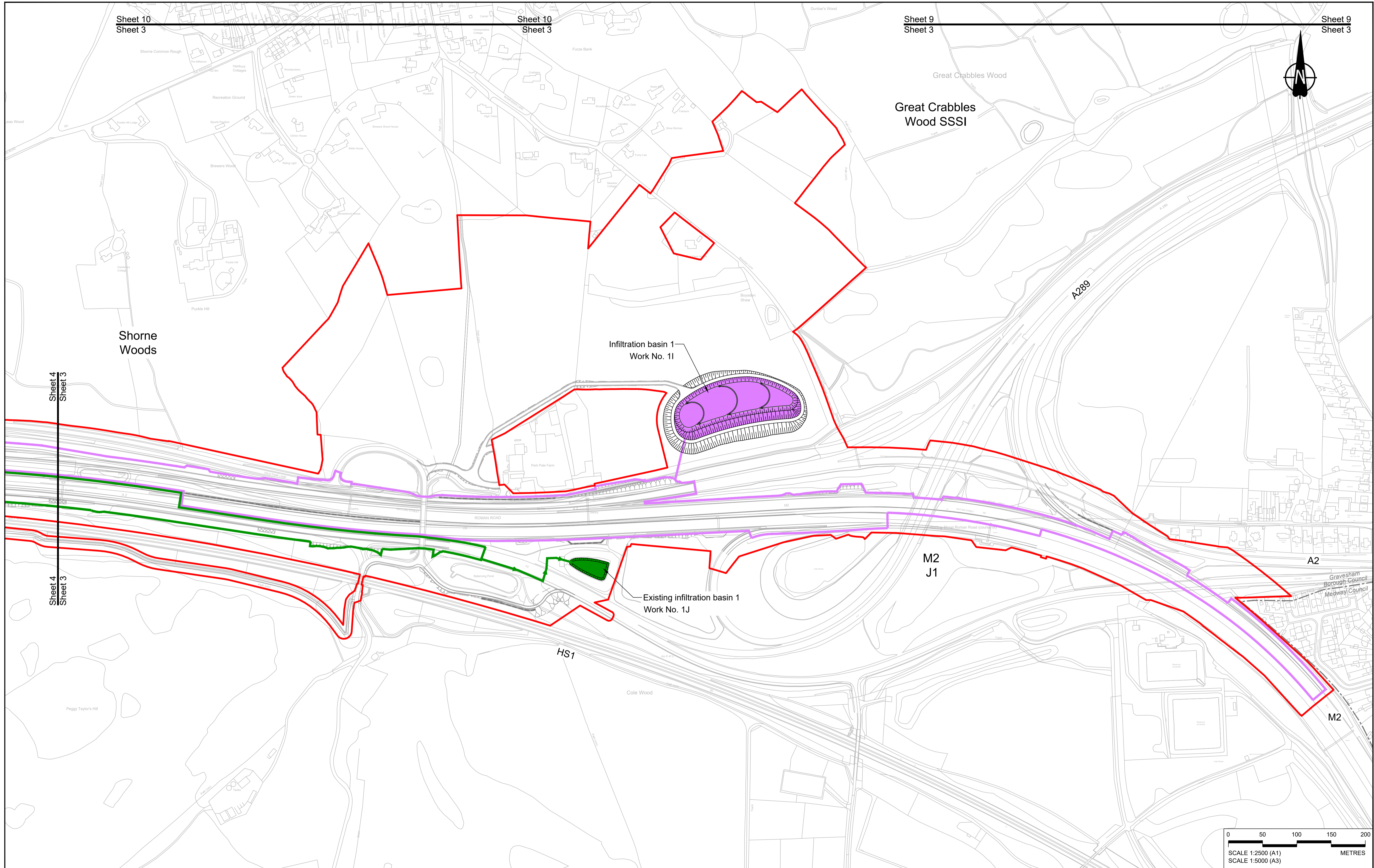
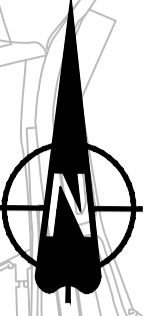
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Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10049				

Sheet 10
Sheet 3

Sheet 10
Sheet 3

Sheet 9
Sheet 3

Sheet 9
Sheet 3



Shorne Woods

Infiltration basin 1
Work No. 1I

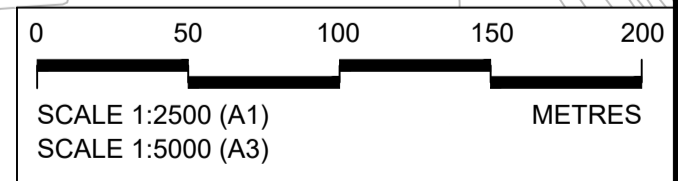
Existing infiltration basin 1
Work No. 1J

M2
J1

HS1

A2

M2



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P01	SB	19/10/2022	DCO Application	LY	BB ASB
P02	SB	11/12/2023	Deadline 9	SA	RO ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd Apprv'd

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LEGEND:

BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

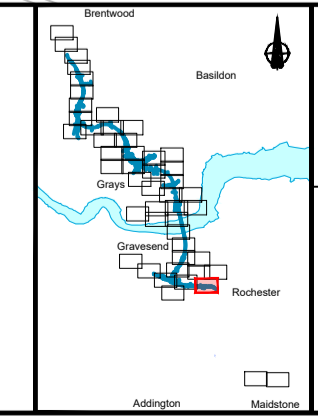
PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale

- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump

CATCHMENT AREAS AND OUTFALLS

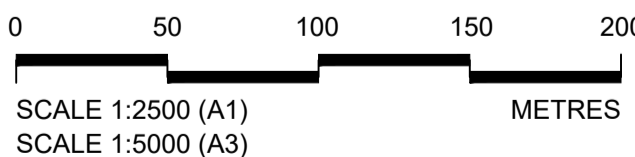
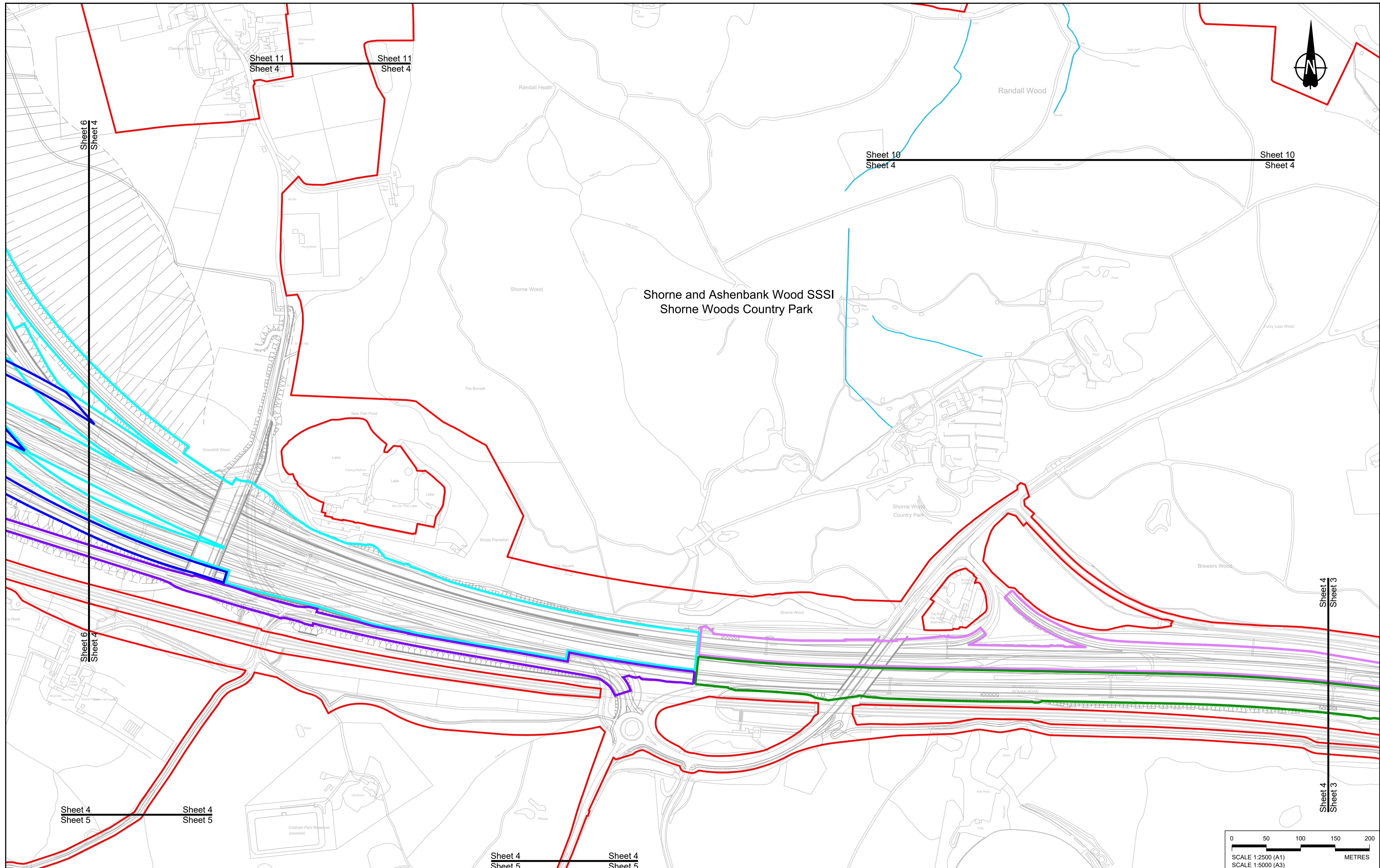
- Catchment for Work No. 1I
- Outfall to Work No. 1I
- Catchment for Work No. 1J
- Outfall to Work No. 1J



Client
national highways

Project
LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 3				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10001				



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P02	SB	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd				

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LEGEND:

BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

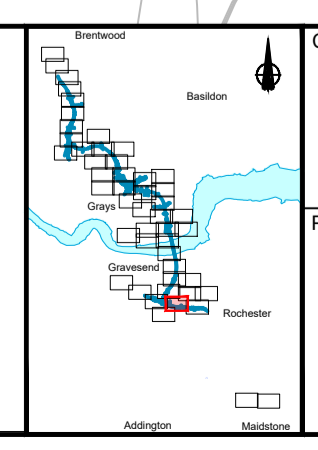
- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale

CATCHMENT AREAS AND OUTFALLS

- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump

CATCHMENT AREAS AND OUTFALLS

- Catchment for Work No. 1J
- Catchment for Work No. 2J
- Catchment for Work No. 2K
- Catchment for Work No. 3D



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: **DCO Examination**

Application Document Number: **TR010032/APP/2.16**

Drawing title: **DRAINAGE PLANS REGULATION 5(2)(o) SHEET 4**

Drawing Number: **HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10002**

Original Size: **A1**

Revision: **P02**

Scale: **1:2500**

Sheet 6
Sheet 5

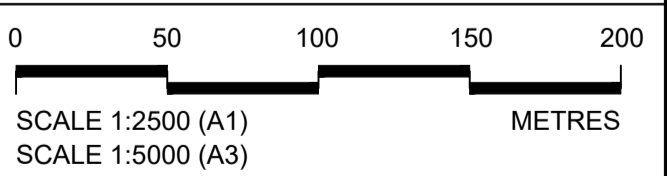
Sheet 6
Sheet 5

Sheet 4
Sheet 5

Sheet 4
Sheet 5

Sheet 4
Sheet 5

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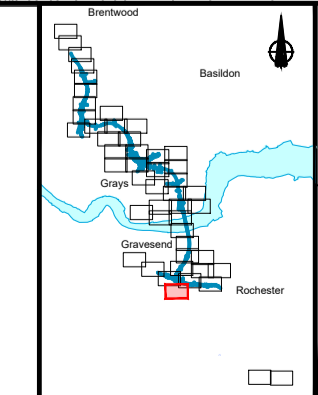
BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale
- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump

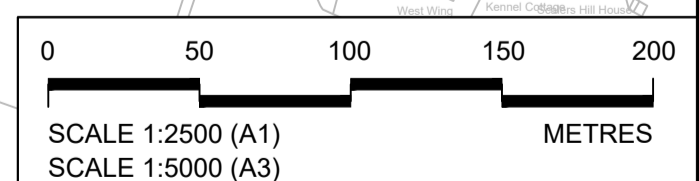
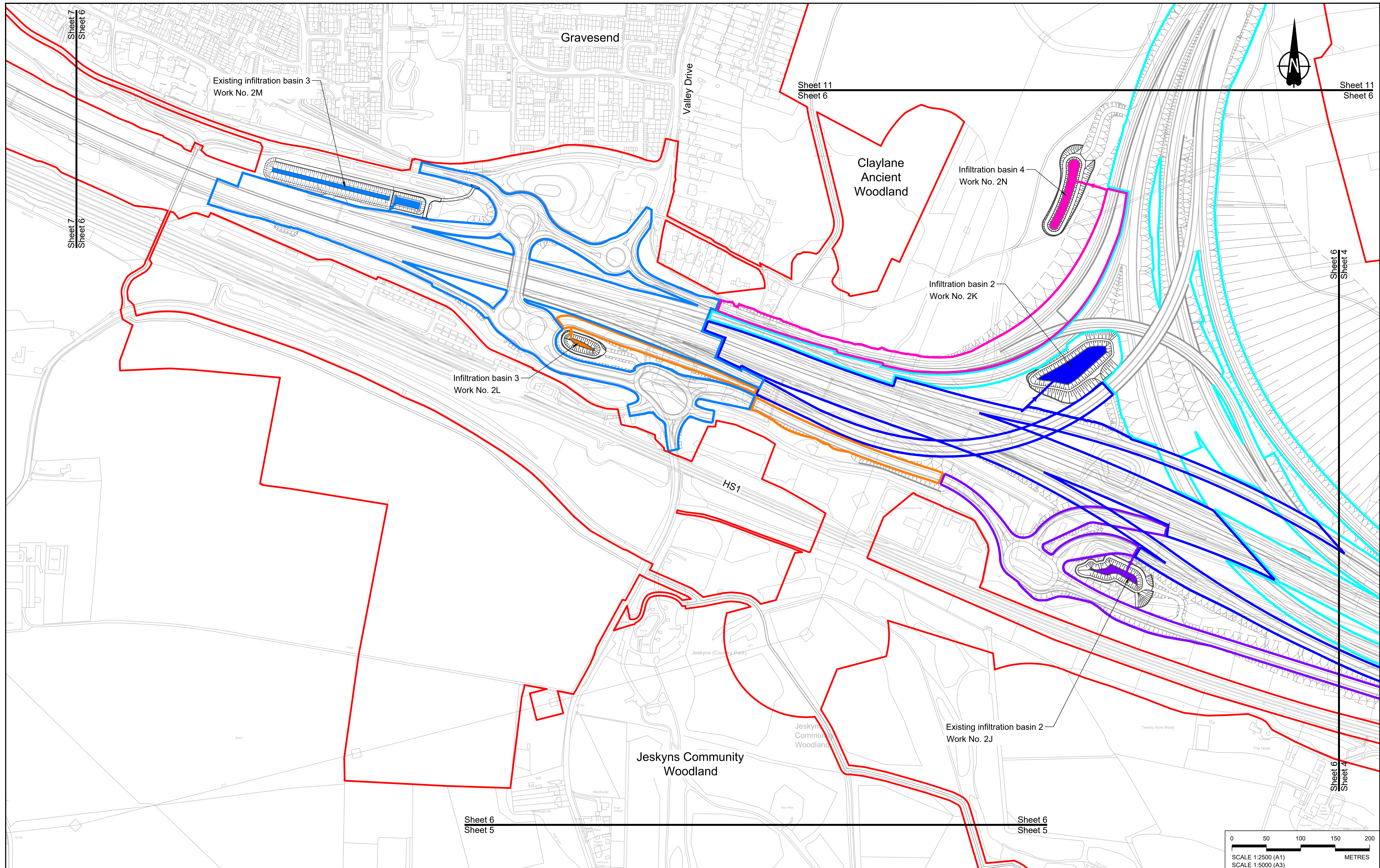
P01	SB	19/10/2022	DCO Application	LY	BB	ASB
P02	SB	11/12/2023	DCO Application	SA	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 5				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10003				



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P01	SB	19/10/2022	DCO Application	LY	BB	ASB				
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd				

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LEGEND:

BOUNDARIES

- Order Limits (Red solid line)
- Local Authority boundary (Red dashed line)
- Existing watercourse (Cyan line)

PROPOSED DRAINAGE

- Watercourse diversion (Blue dashed line)
- Infiltration basin, attenuation pond, infiltration pond (Blue hatched area)
- Swale (Green hatched area)
- Ditch (Green line)
- Culvert or pipe (Blue dashed line with 'P.S.' symbol)
- Pumping station (Blue square with 'P.S.' symbol)
- Containment for contaminated water from tunnel low point sump (Orange hatched area)

CATCHMENT AREAS AND OUTFALLS

- Catchment for Work No. 2M (Blue solid line)
- Catchment for Work No. 2J (Purple solid line)
- Catchment for Work No. 2L (Orange solid line)
- Catchment for Work No. 2K (Blue solid line)
- Catchment for Work No. 2N (Pink solid line)
- Catchment for Work No. 2N (Pink solid line)
- Catchment for Work No. 3D (Cyan solid line)
- Outfall to Work No. 2M (Blue line with arrow)
- Outfall to Work No. 2J (Purple line with arrow)
- Outfall to Work No. 2L (Orange line with arrow)
- Outfall to Work No. 2K (Blue line with arrow)
- Outfall to Work No. 2N (Pink line with arrow)
- Outfall to Work No. 2N (Pink line with arrow)
- Outfall to Work No. 2L (Orange line with arrow)

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: **DCO Examination**

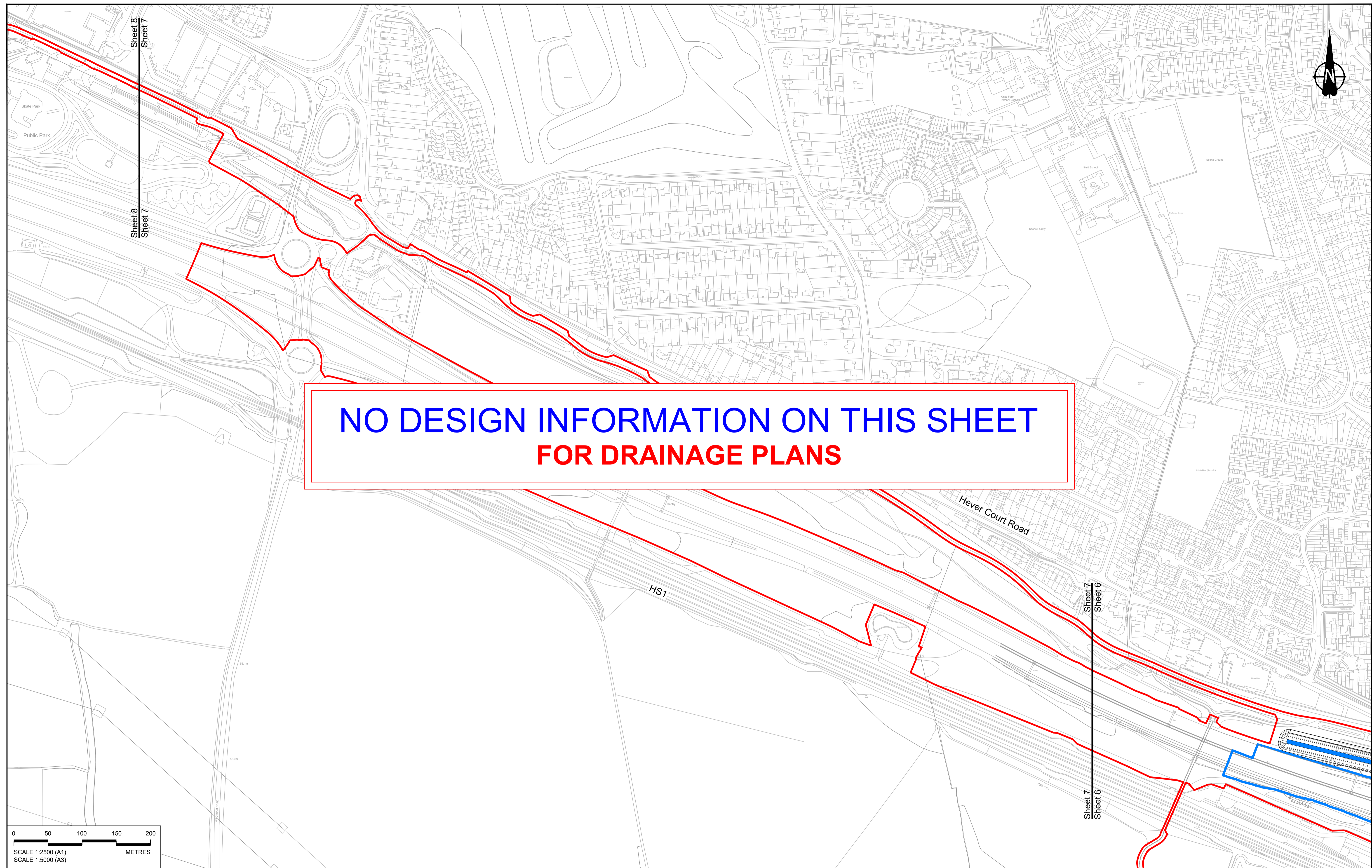
Application Document Number: **TR010032/APP/2.16**

Drawing title: **DRAINAGE PLANS REGULATION 5(2)(o) SHEET 6**

Drawing Number: **HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10004**

Original Size: **A1** | Revision: **P02**

Scale: **1:2500**



**NO DESIGN INFORMATION ON THIS SHEET
FOR DRAINAGE PLANS**



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	SB	19/10/2022	DCO Application	LY	BB	ASB
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB

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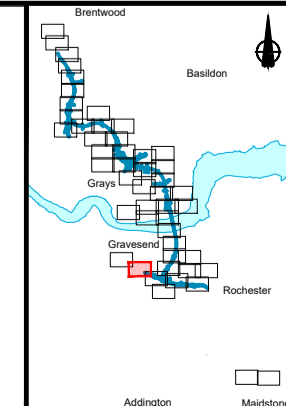
LEGEND:

BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale
- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



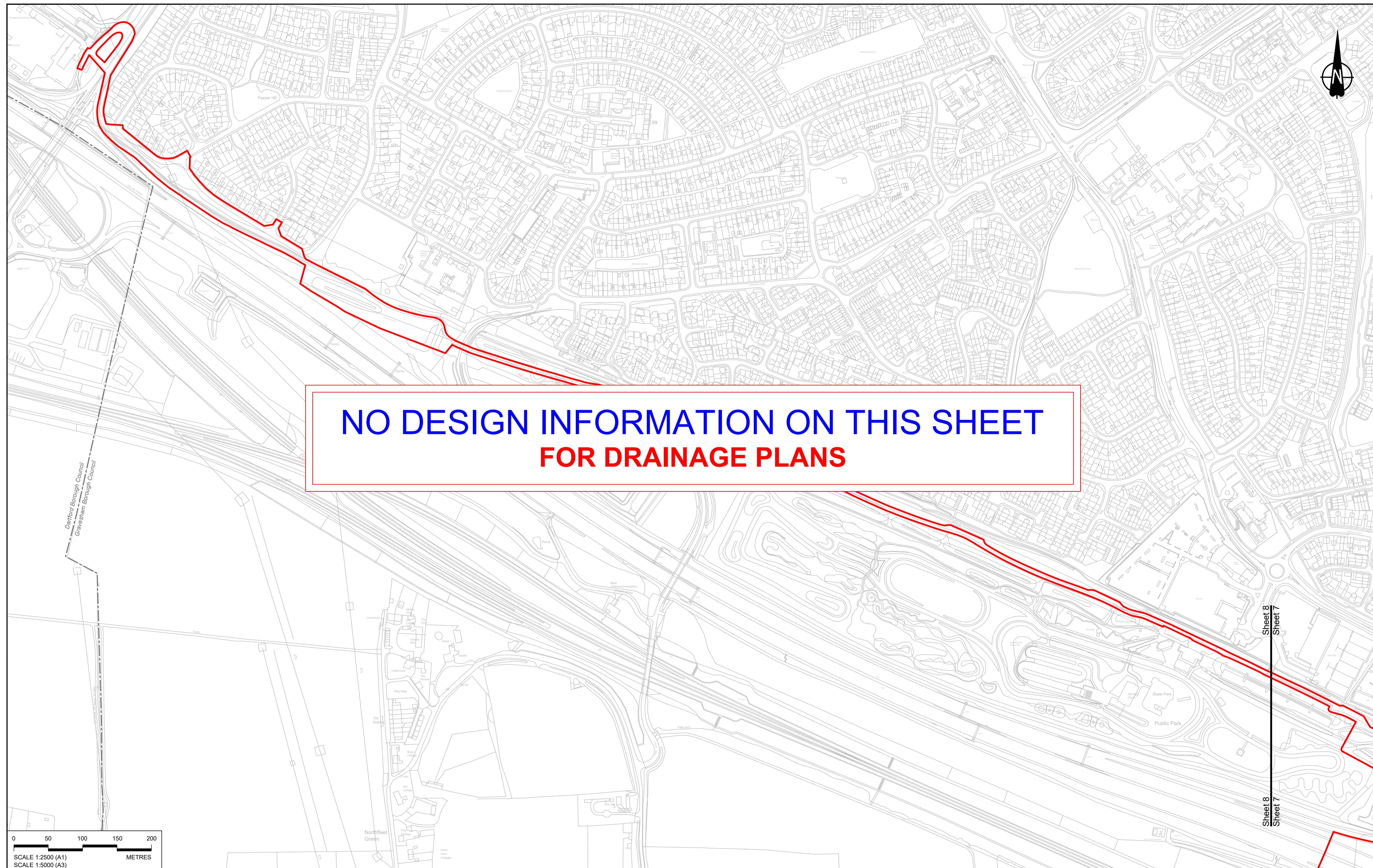
national highways

Client

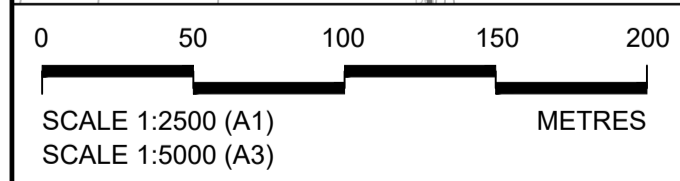
Project

LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 7				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10005				



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P01	SB	19/10/2022	DCO Application	LY	BB	ASB				
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd				

NOTES:

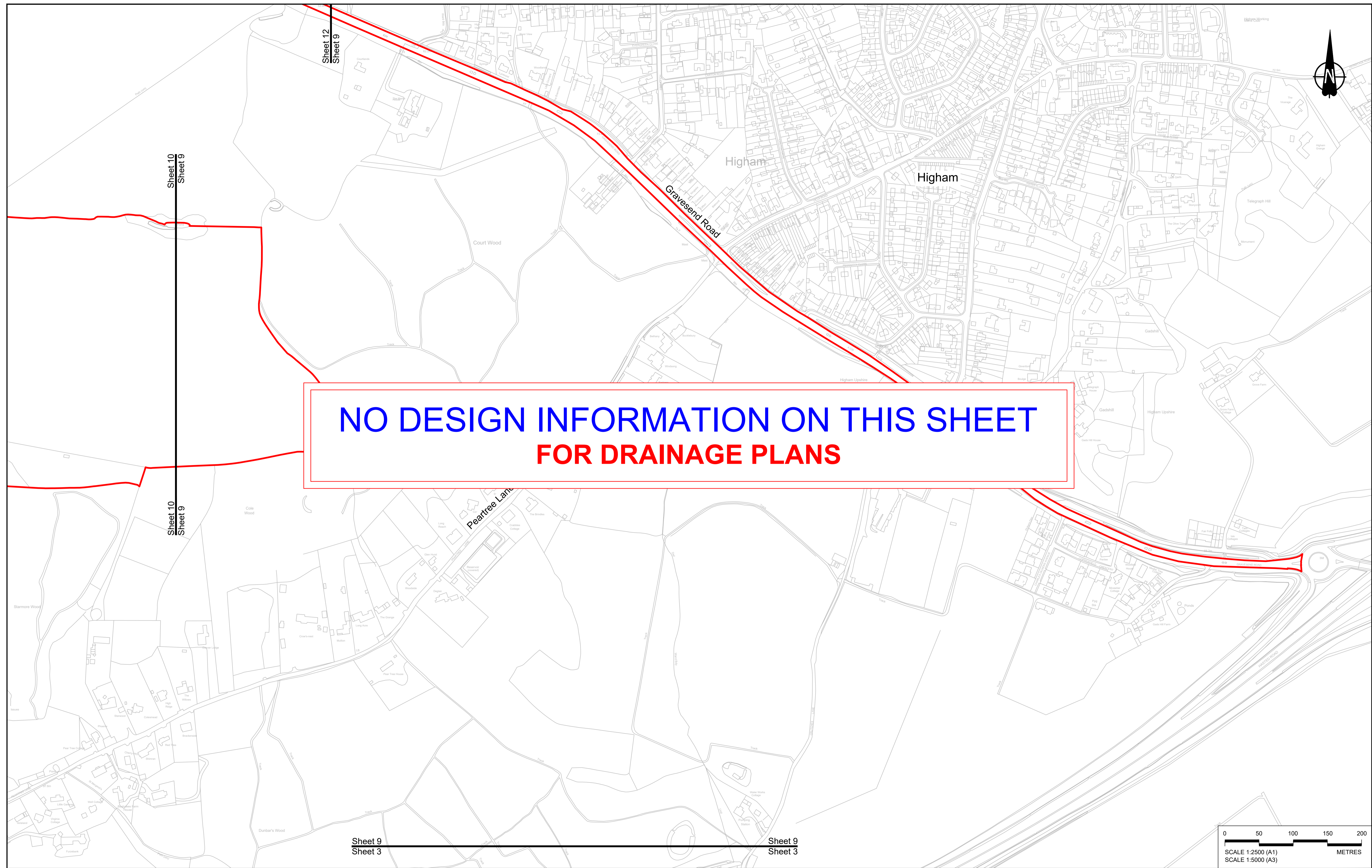
- The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
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LEGEND:

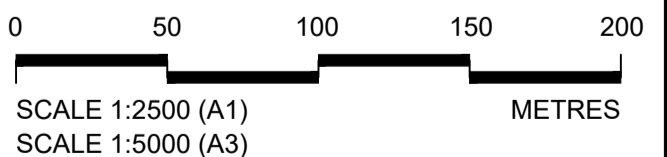
BOUNDARIES		PROPOSED DRAINAGE	
	Order Limits		Watercourse diversion
	Local Authority boundary		Infiltration basin, attenuation pond, infiltration pond
	Existing watercourse		Swale
			Ditch
			Culvert or pipe
			P.S. Pumping station
			Containment for contaminated water from tunnel low point sump

LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 8				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10006				



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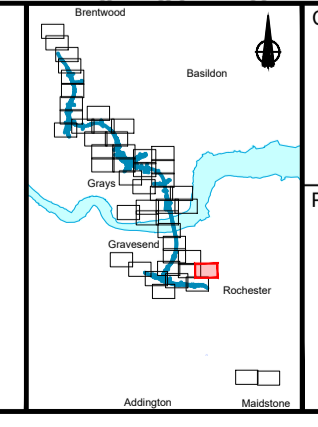
Contains Ordnance Survey data. © Crown copyright and database rights 2022. Ordnance Survey 100035649										
P01	SS	19/10/2022	DCO Application	LY	BB	ASB				
P02	SS	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd				

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LEGEND:

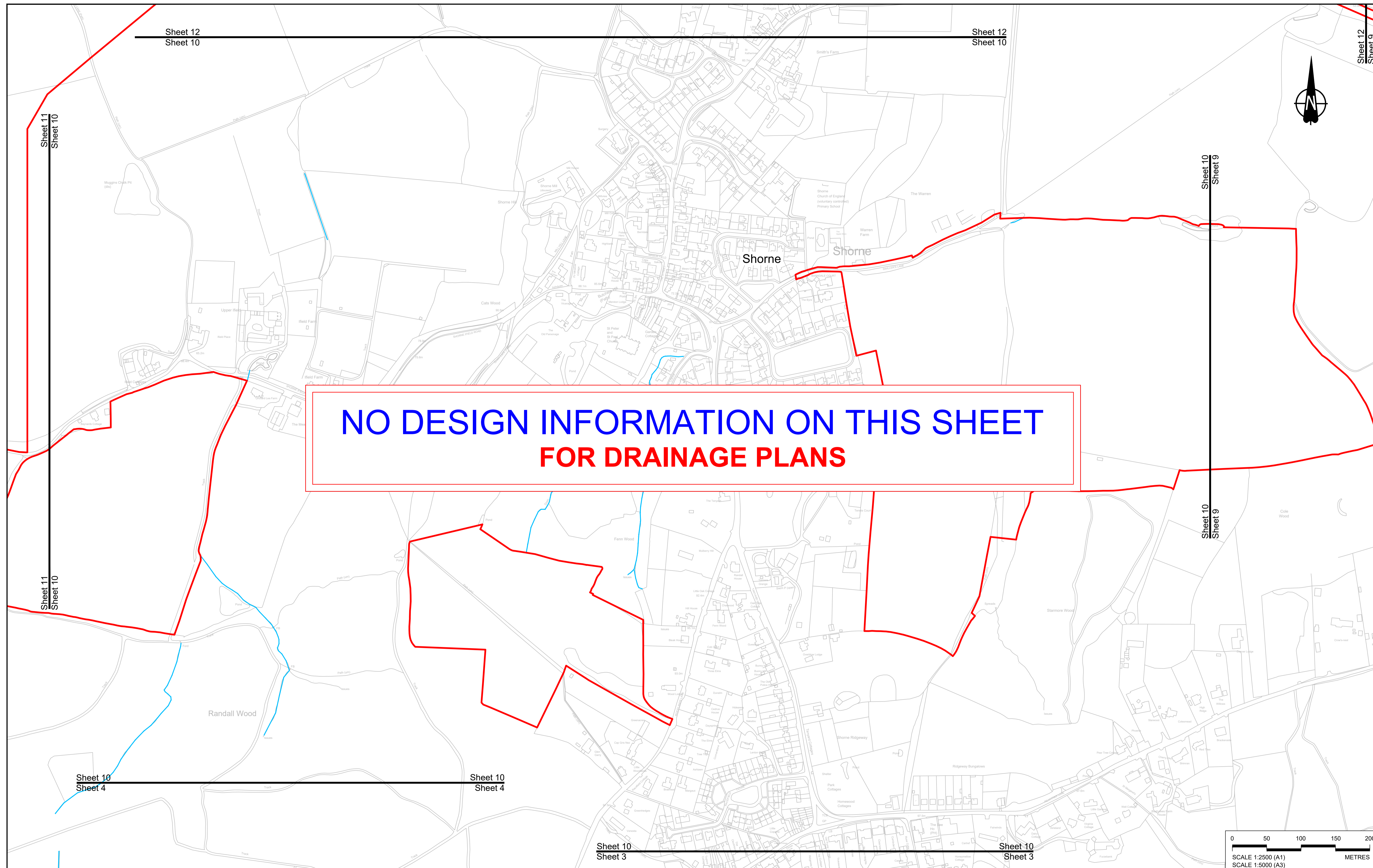
BOUNDARIES	PROPOSED DRAINAGE	
Order Limits	Watercourse diversion	Ditch
Local Authority boundary	Infiltration basin, attenuation pond, infiltration pond	Culvert or pipe
Existing watercourse	Swale	P.S. Pumping station
		Containment for contaminated water from tunnel low point sump



national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 9				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10007				



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FOR DRAINAGE PLANS**

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P01	SB	19/10/2022	DCO Application	LY	BB	ASB				
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd				

NOTES:
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LEGEND:

BOUNDARIES	PROPOSED DRAINAGE	
— Order Limits	--- Watercourse diversion	— Ditch
- - - Local Authority boundary	— Infiltration basin, attenuation pond, infiltration pond	— Culvert or pipe
— Existing watercourse	— Swale	— P.S. Pumping station
		— Containment for contaminated water from tunnel low point sump

Client: **national highways**

Project: **LOWER THAMES CROSSING**

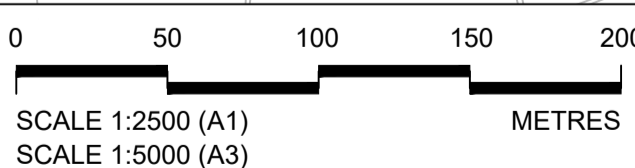
Status: **DCO Examination**

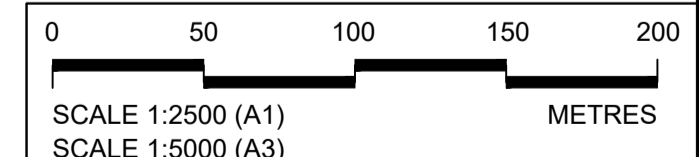
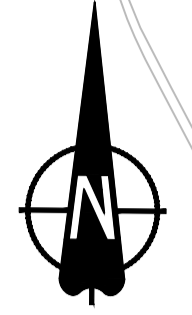
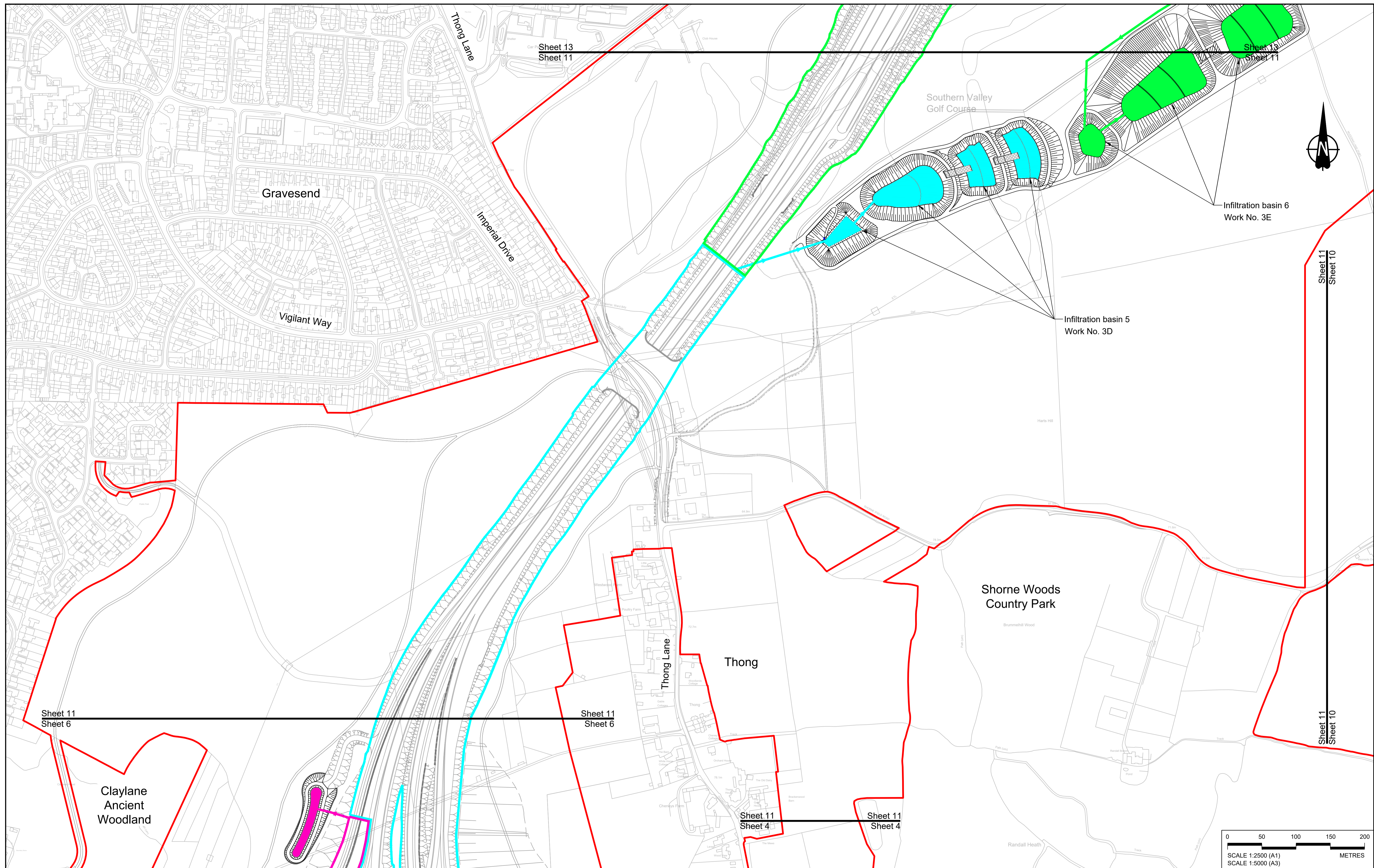
Application Document Number: **TR010032/APP/2.16**

Drawing title: **DRAINAGE PLANS REGULATION 5(2)(o) SHEET 10**

Drawing Number: **HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10008**

Original Size: **A1** | Revision: **P02**
 Scale: 1:2500





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P01	SB	19/10/2022	DCO Application	LY	BB	ASB				
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd				

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LEGEND:

BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

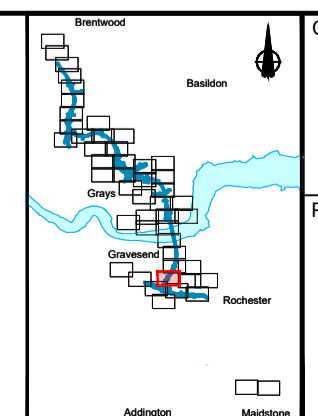
- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale

PROPOSED DRAINAGE

- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump

CATCHMENT AREAS AND OUTFALLS

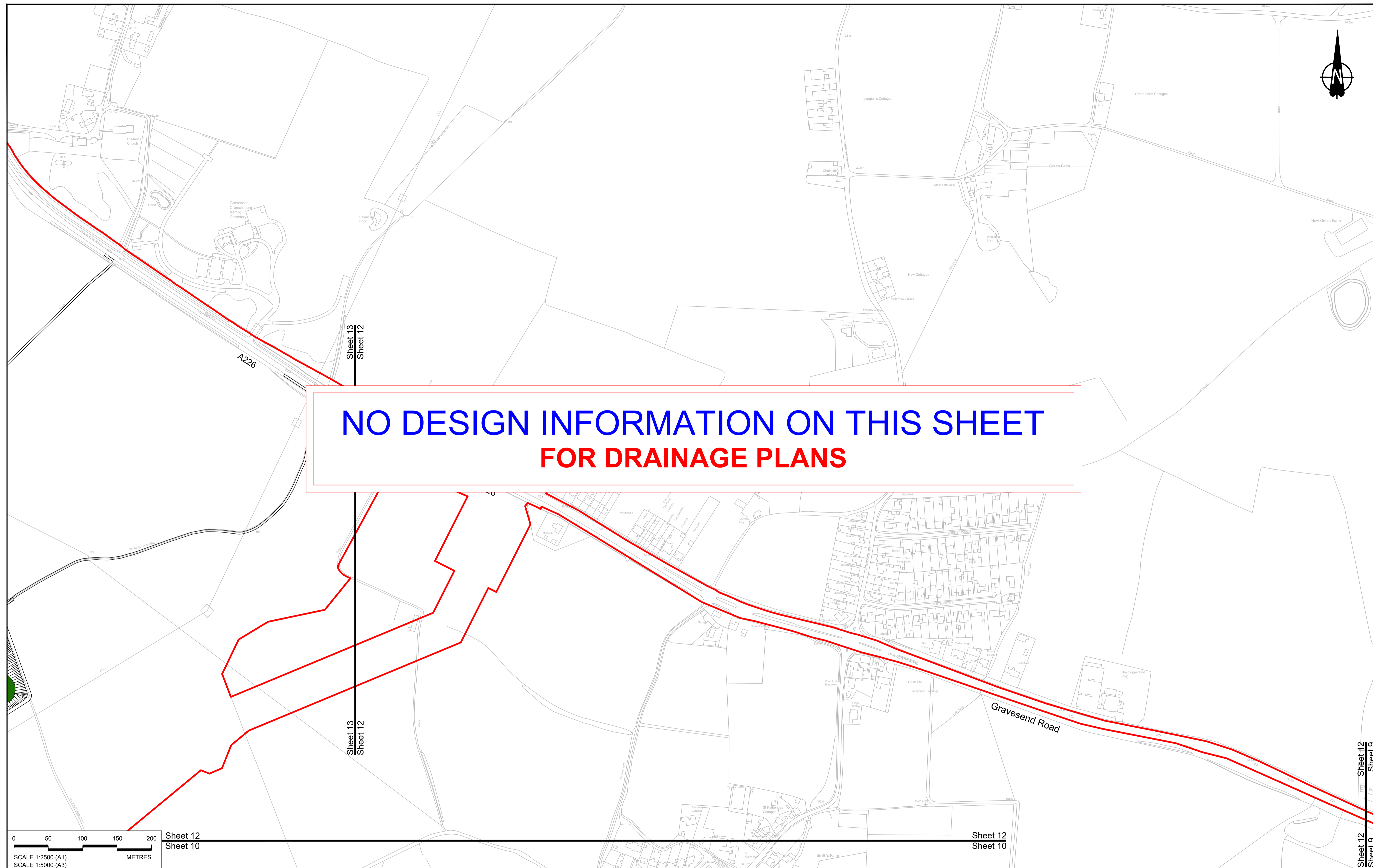
- Catchment for Work No. 3D
- Outfall to Work No. 3D
- Catchment for Work No. 3E
- Outfall to Work No. 3E



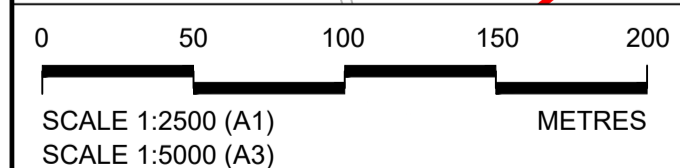
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 11				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10009				



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Sheet 10

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Sheet 9

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	SS	19/10/2022	DCO Application	LY	BB	ASB
P02	SS	11/12/2023	Deadline 9	SA	RO	ASB

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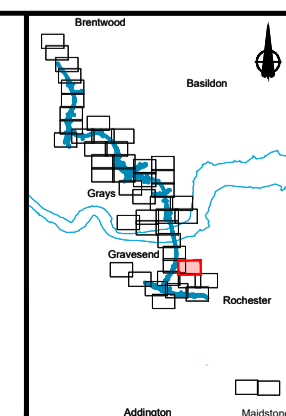
LEGEND:

BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

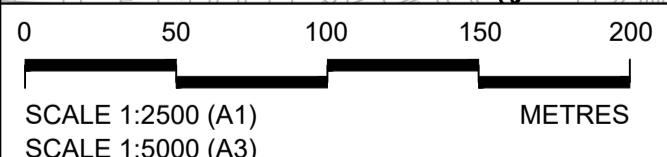
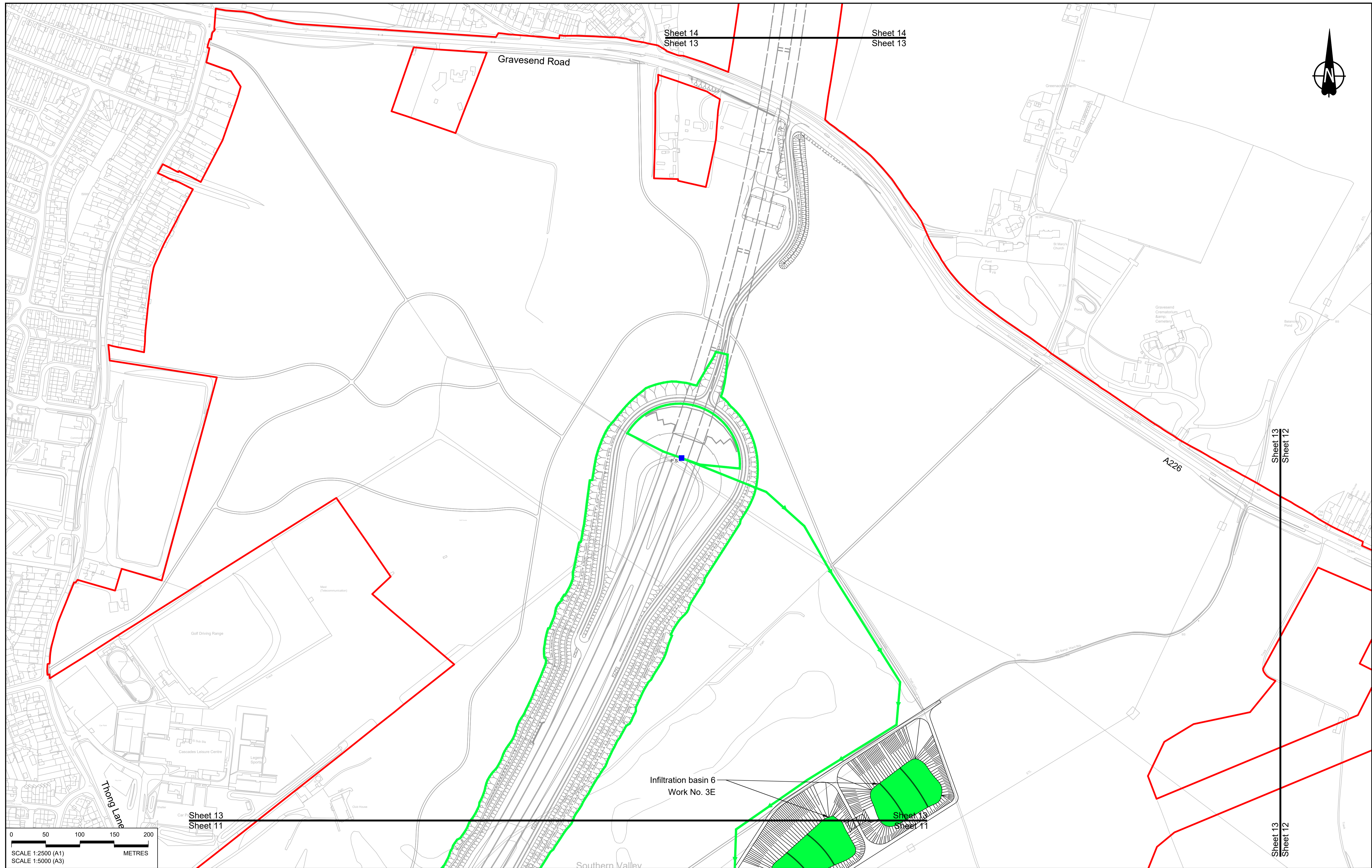
- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale
- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 12				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10050				



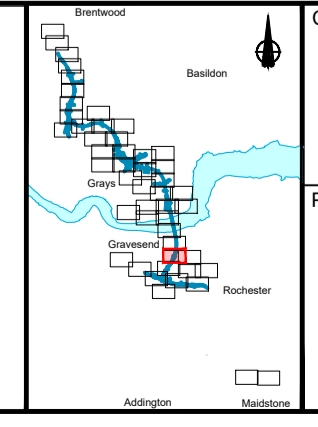
Contains Ordnance Survey data. © Crown copyright and database rights 2022. Ordnance Survey 100039649										
P01	SB	19/10/2022	DCO Application	LY	BB	ASB				
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd				

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LEGEND:

BOUNDARIES	PROPOSED DRAINAGE	CATCHMENT AREAS AND OUTFALLS
— Order Limits	--- Watercourse diversion	— Catchment for Work No. 3E
- - - Local Authority boundary	--- Culvert or pipe	— Outfall to Work No. 3E
— Existing watercourse	■ P.S. Pumping station	
	■ Infiltration basin, attenuation pond, infiltration pond	
	■ Swale	
	■ Containment for contaminated water from tunnel low point sump	



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 13				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10010				

Sheet 15
Sheet 14

Sheet 15
Sheet 14



Thames Estuary
and Marshes,
SPA, SSSI and
Ramsar site
Filborough Marshes

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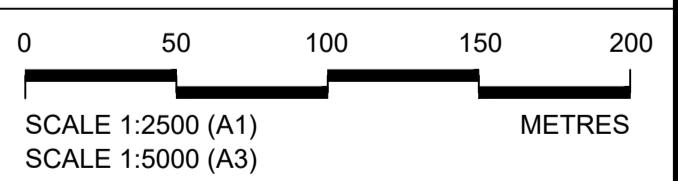
Lower Higham Road

Church Lane

Sheet 14
Sheet 13

Sheet 14
Sheet 13

Gravesend Road



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	SA	RO	ASB

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LEGEND:

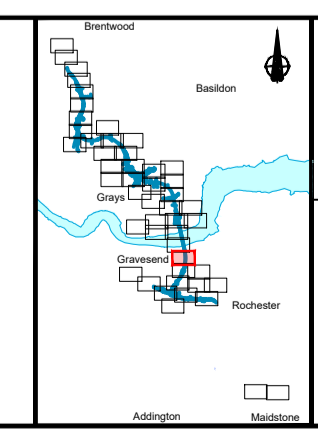
BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale

- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



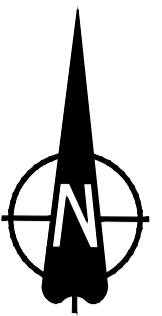
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 14				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10011				

Sheet 16
Sheet 15

Sheet 16
Sheet 15

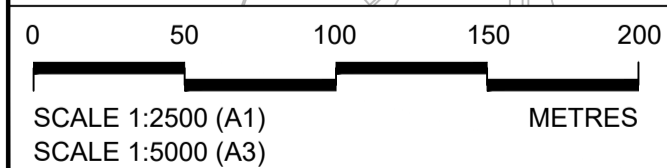


Thurrock Council
Gravesham Borough Council

River Thames

**NO DESIGN INFORMATION ON THIS SHEET
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North Kent Railway and
Thames Medway Canal



Sheet 15
Sheet 14

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P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	SA	RO	ASB

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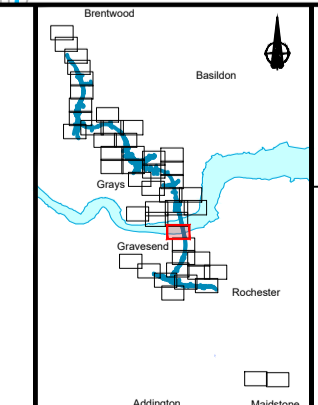
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LEGEND:

- BOUNDARIES**
- Order Limits
 - Local Authority boundary
 - Existing watercourse

- PROPOSED DRAINAGE**
- Watercourse diversion
 - Infiltration basin, attenuation pond, infiltration pond
 - Swale

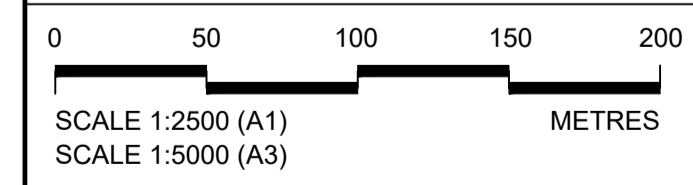
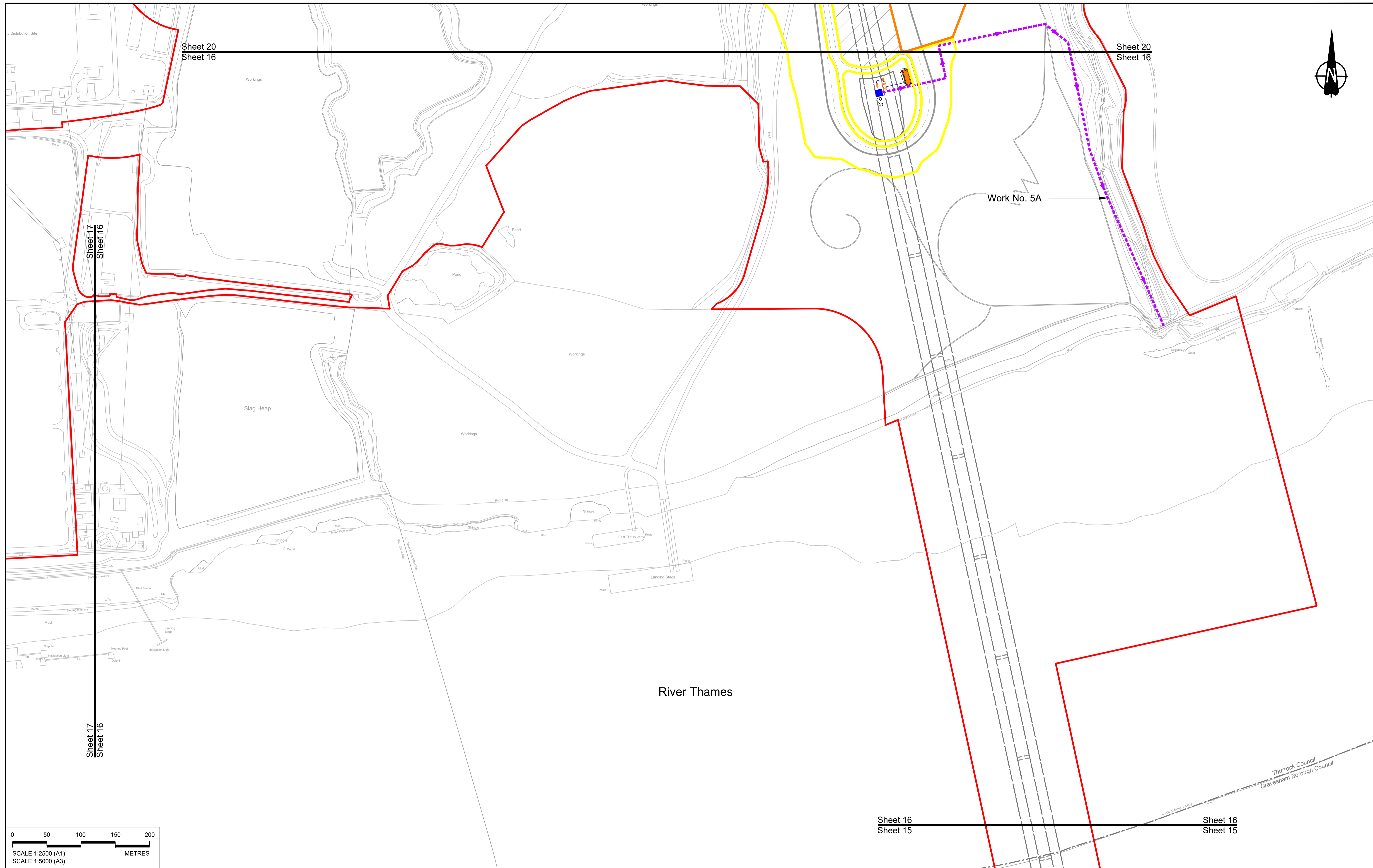
- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 15				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10012				



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P01	SS	19/10/2022	DCO Application	LY	BB	ASB
P02	SS	11/12/2023	Deadline 9	SA	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

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LEGEND:

BOUNDARIES

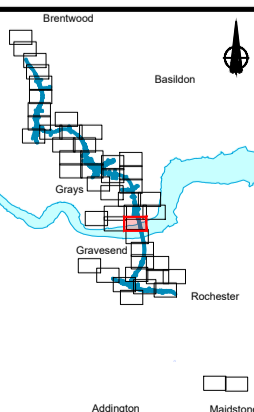
- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale
- Ditch
- Culvert or pipe
- Pumping station
- Containment for contaminated water from tunnel low point sump

CATCHMENT AREAS AND OUTFALLS

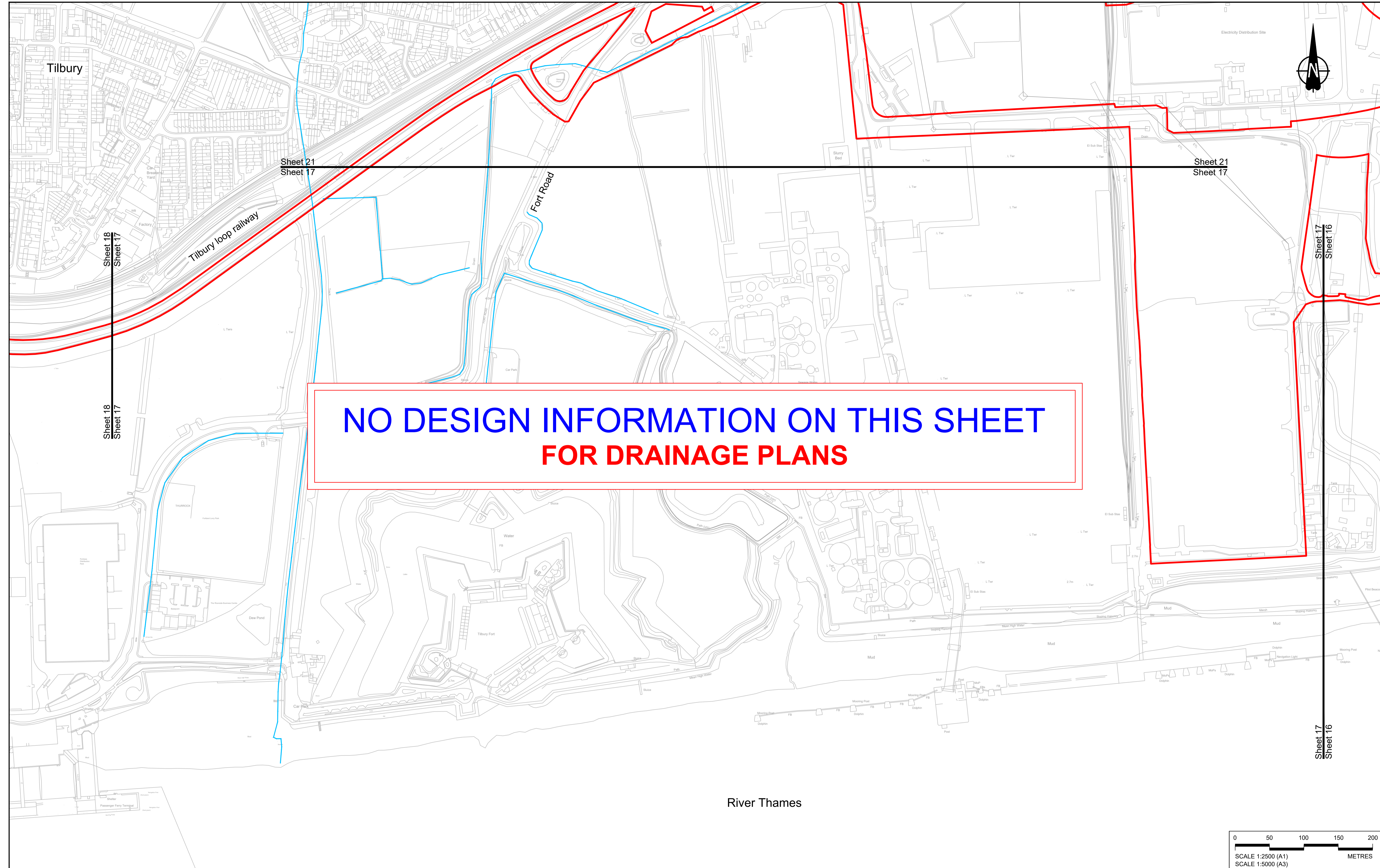
- Catchment for North portal pump
- Catchment for Work No. 5G
- Discharge from Tunnel into River Thames (Work No. 5A)



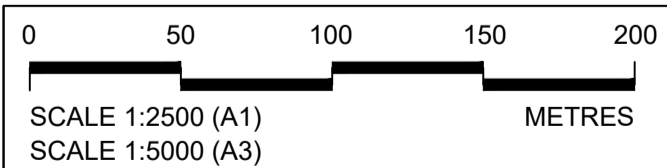
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 16				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10013				



**NO DESIGN INFORMATION ON THIS SHEET
FOR DRAINAGE PLANS**



Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	17/11/2023	Deadline 7	LY	BB	ASB
P03	S8	11/12/2023	Deadline 9	SA	RO	ASB

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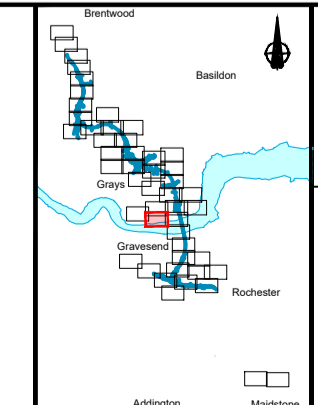
LEGEND:

BOUNDARIES

- Order Limits
- Local Authority boundary
- Existing watercourse

PROPOSED DRAINAGE

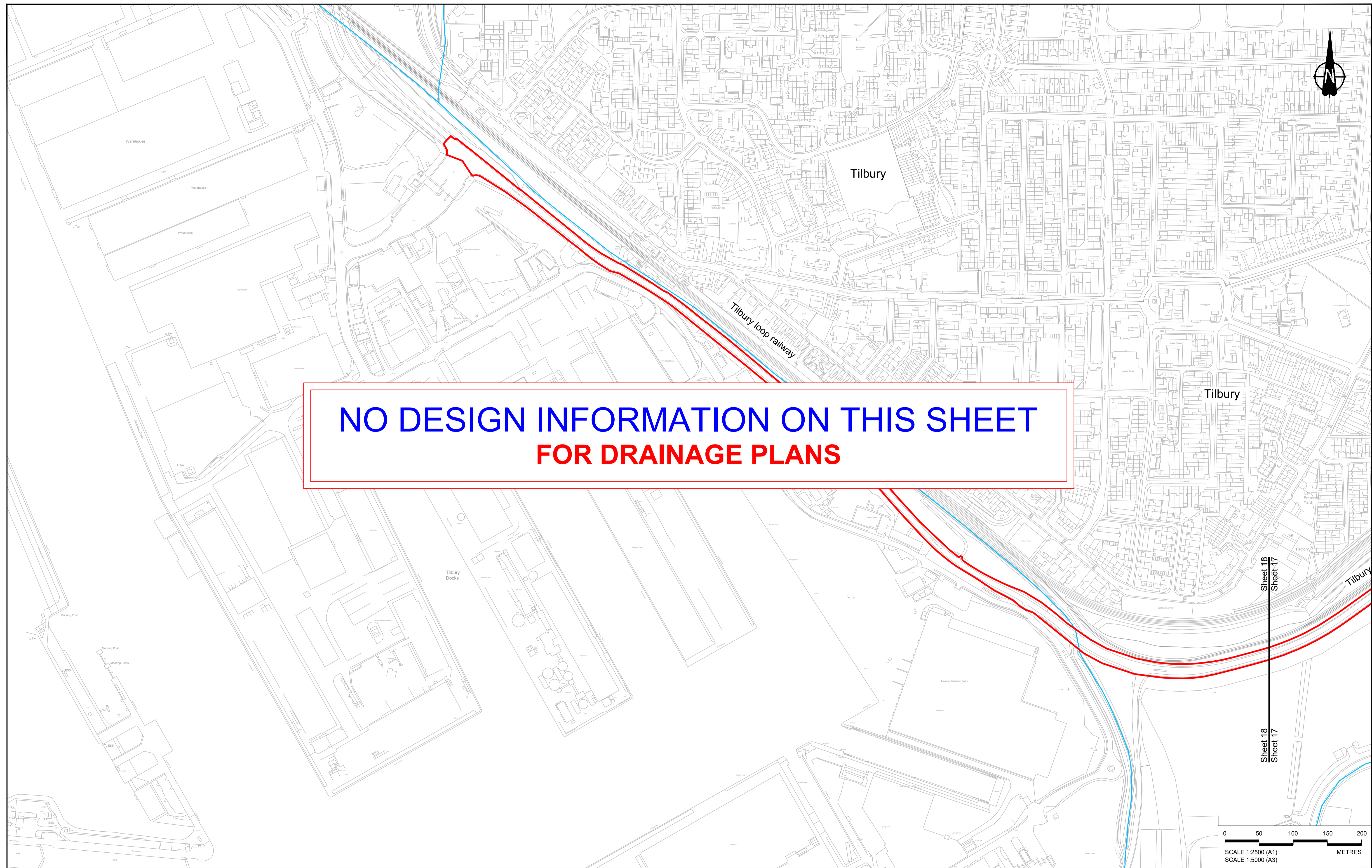
- Watercourse diversion
- Infiltration basin, attenuation pond, infiltration pond
- Swale
- Ditch
- Culvert or pipe
- P.S. Pumping station
- Containment for contaminated water from tunnel low point sump



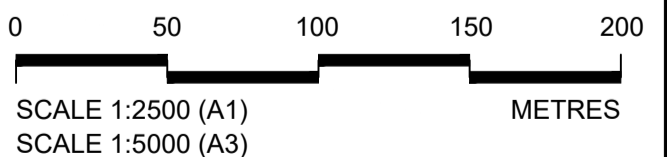
national highways

LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 17				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10014				



**NO DESIGN INFORMATION ON THIS SHEET
FOR DRAINAGE PLANS**



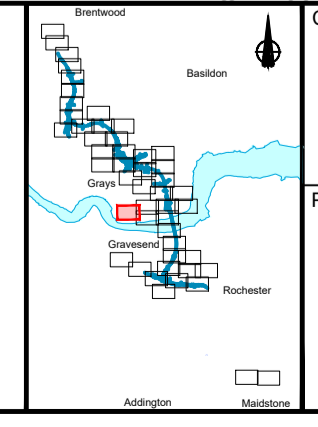
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P01	SB	19/10/2022	DCO Application	LY	BB	ASB
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

NOTES:

- The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1)
- Where proposed catchment areas boundaries overlap with each other or the Order Limits they are shown adjacent to each other or the Order Limit to provide greater visual clarity but these could extend to the boundary of other catchment areas or the Order Limits as well.

LEGEND:

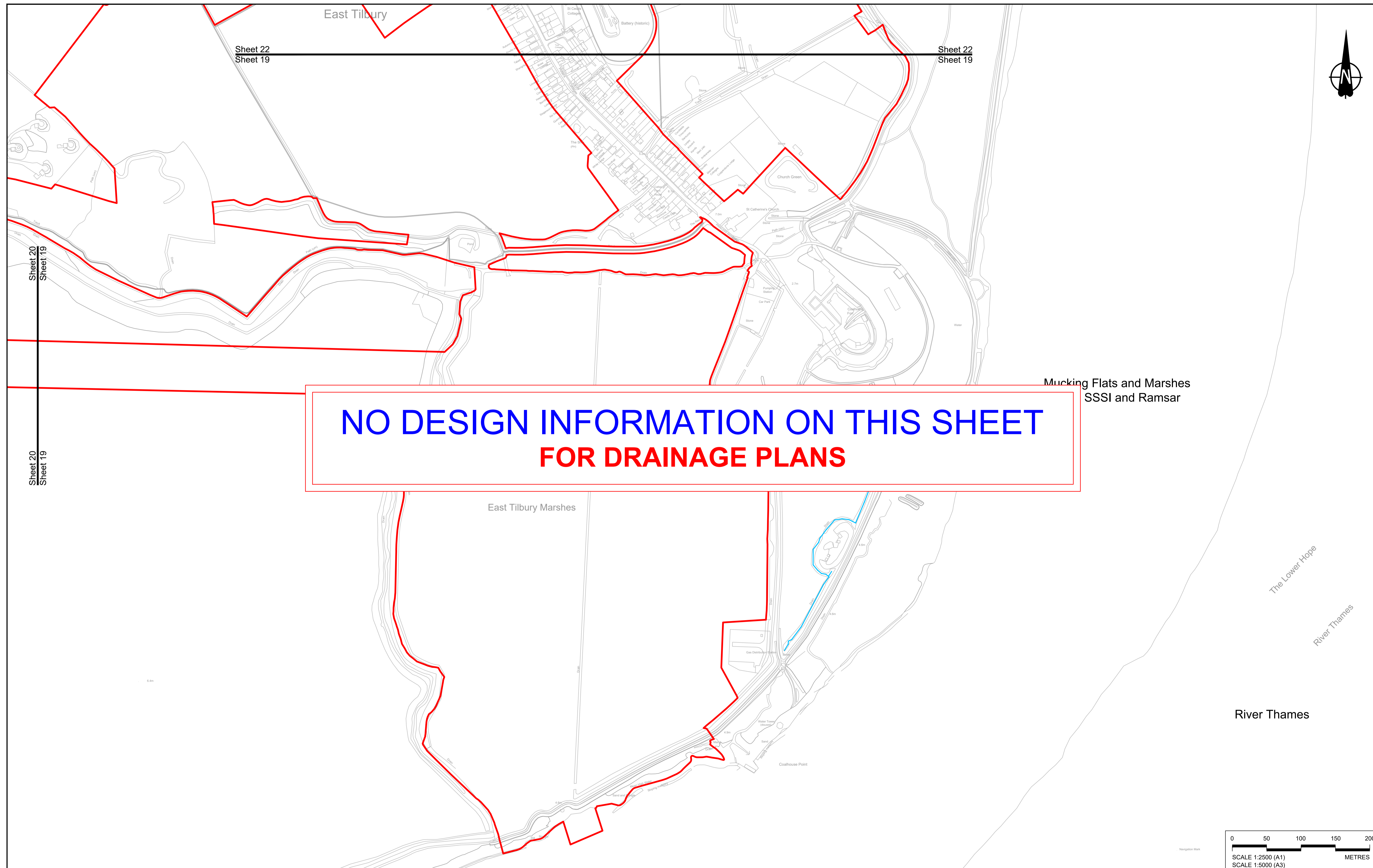
BOUNDARIES	PROPOSED DRAINAGE	
Order Limits	Watercourse diversion	Ditch
Local Authority boundary	Infiltration basin, attenuation pond, infiltration pond	Culvert or pipe
Existing watercourse	Swale	P.S. Pumping station
		Containment for contaminated water from tunnel low point sump



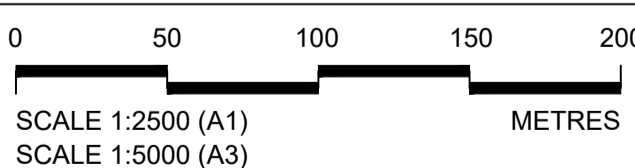
national highways

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 18				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10015				



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P01	SB	19/10/2022	DCO Application	LY	BB	ASB
P02	SB	11/12/2023	Deadline 9	SA	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

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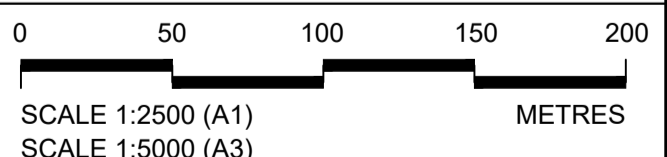
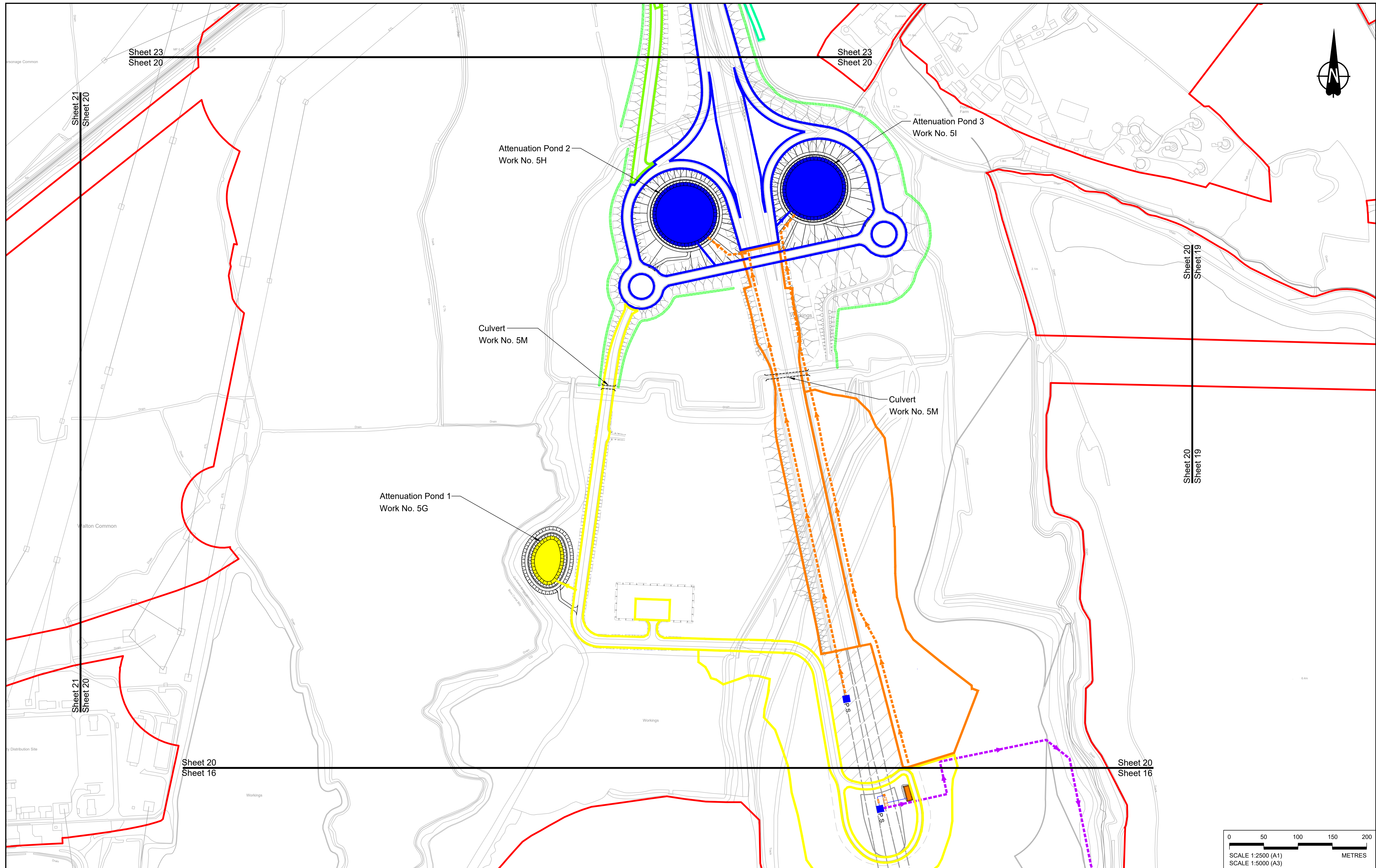
LEGEND:

BOUNDARIES	PROPOSED DRAINAGE	
Order Limits	Watercourse diversion	Ditch
Local Authority boundary	P.S.	Culvert or pipe
Existing watercourse	Infiltration basin, attenuation pond, infiltration pond	Pumping station
	Swale	Containment for contaminated water from tunnel low point sump

	Client
	Project LOWER THAMES CROSSING

Status DCO Examination	Original Size A1	Revision P02
Application Document Number TR010032/APP/2.16	Scale 1:2500	
Drawing title DRAINAGE PLANS REGULATION 5(2)(o) SHEET 19		
Drawing Number HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10016		

HE540039-CJV-BOP-SZZ_DN100000_-DR-CD-10016.dwt



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P01	S8	19/10/2022	DCO Application	LY	BB	ASB				
P02	S8	31/10/2023	Deadline 6	LY	BB	ASB				
P03	S8	11/12/2023	Deadline 9	SA	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd				

NOTES:
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 2. These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1).
 3. Where proposed catchment areas boundaries overlap with each other or the Order Limits they are shown adjacent to each other or the Order Limit to provide greater visual clarity but these could extend to the boundary of other catchment areas or the Order Limits as well.

LEGEND:
BOUNDARIES
 - - - Order Limits
 - - - Local Authority boundary
 - - - Existing watercourse

PROPOSED DRAINAGE
 - - - Watercourse diversion
 - - - Culvert or pipe
 [Symbol] Infiltration basin, attenuation pond, infiltration pond
 [Symbol] Swale

[Symbol] Ditch
 [Symbol] Culvert or pipe
 [Symbol] P.S. Pumping station
 [Symbol] Containment for contaminated water from tunnel low point sump

CATCHMENT AREAS AND OUTFALLS
 - - - Catchment for North portal pump
 - - - Outfall for North portal pump
 - - - Catchment for Work No. 5G
 - - - Outfall to Work No. 5G
 - - - Catchment for Work No. 5H and 5I
 - - - Outfall to Work No. 5H and 5I
 - - - Catchment for Work No. 5J
 - - - Discharge from Tunnel into River Thames



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/2.16	Scale	1:2500		
Drawing title	DRAINAGE PLANS REGULATION 5(2)(o) SHEET 20				
Drawing Number	HE540039-CJV-BOP-SZZ_DN100000 -DR-CD-10017				

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