

# Lower Thames Crossing

## 2.9 Engineering Drawings and Sections

### Volume E (South portal and Tilbury plan and profiles)

APFP Regulation 5(2)(o) and 6(2)

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

Volume 2

**DATE: October 2022**

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**VERSION: 1.0**

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# Lower Thames Crossing

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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 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the 2009 Regulations), which require:
- a. *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.*
  - b. *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:*
  - c. *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 waters or an inland waterway; and*
    - vi. *drainage outfall details for highways;*

- 1.1.4 The purpose of the Engineering Drawings and Sections Plans is to show the key features of the Project for which development consent is sought. The set shows details of the proposed road plan and longitudinal profile including the ground levels, the height of certain structures and embankments, the depth of proposed cuttings and tunnel, and the indicative location and level of drainage outfall features.
- 1.1.6 For each section, the Applicant has provided a key plan of the corresponding geographical area that provides the sheet number and a description of the associated road works to help with its identification within the set. It is important to note that the plans are numbered in each of the aforementioned sections and that the numbering system does not apply to the set as whole.
- 1.1.7 The key plans use a smaller scale than that prescribed in Regulation 5(3) of the 2009 Regulations so that the Project or the section of the Project can be represented in a single sheet plan. The scales in the key plans vary from 1:50000 to 1:5000. The remaining sheets in the set containing the plan and profiles and the cross sections have been prepared at a horizontal scale of 1:2500 and a vertical scale of 1:250.
- 1.1.8 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 the Works Plans (Application Document 2.6) and Schedule 1 of the draft Order (Application Document 3.1). Article 6 of the draft Order should also be referred to as it provides the reference points for the application of the upwards and downwards vertical limits of deviation applicable to the elements of the works.
- 1.1.9 Numbered works shown in the Engineering Drawings and Sections Plans are consistent with the information presented in the Works Plans (Application Document 2.6) and Schedule 1 of the draft Order (Application Document 3.1). Further details of the proposed bridges and tunnel structures are provided in the Structures Plans (Application Document 2.13).
- 1.1.10 The information shown on the plans is commensurate with the preliminary design status of the Project. The detailed design will be in accordance with the extent of the defined limits of deviation provided and any approval required under the DCO requirements set out in Schedule 2 of the draft Order (Application Document 3.1).
- 1.1.11 The lateral limits of deviation for the works are shown in the Works Plans (Application Document 2.6) and in the Tunnel Limits of Deviation (Application Document 2.15); article 6 of the draft Order establishes the vertical limits of deviation. Further information about the limits of deviation is provided in the Introduction to the Application (Application Document 1.3).
- 1.1.6 The Engineering Drawings and Sections show the Order Limits. 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 (see article 2 of the draft Order (Application Document 3.1)).
- 1.1.7 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 eight volumes:

- a. Volume A contains the A122 Lower Thames Crossing Plan and Profiles;
- b. Volume B contains the A122 Lower Thames Crossing Cross Sections;
- c. Volume C contains the A2/M2 Plan and Profiles and A2 Mainline Plan and Profiles;
- d. Volume D contains the A122 Lower Thames Crossing/A2 Junction Plan and Profiles;
- e. Volume E contains the South Portal Plan and Profiles and Tilbury Plan and Profiles;
- f. Volume F contains the A13 Junction Plan and Profile;
- g. Volume G contains the A122 Lower Thames Crossing/M25 Junction Plan;  
and
- h. Volume H contains the Overhead Diversion Route and Pylon general arrangements.

## 2 Schedule of Plans included in this application document

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A122 LTC PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) KEY PLAN	TR010032/APP/2.9	P01
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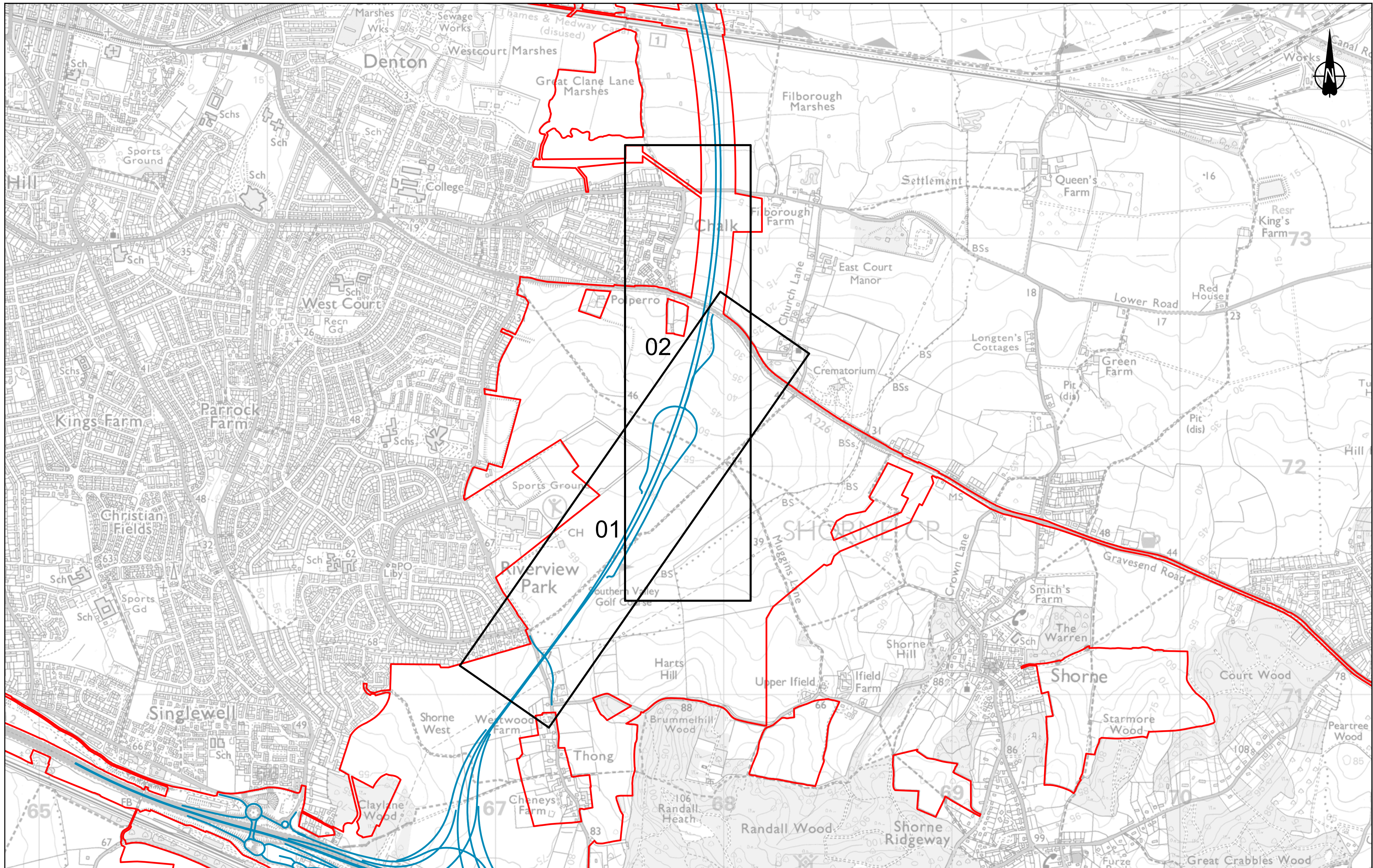
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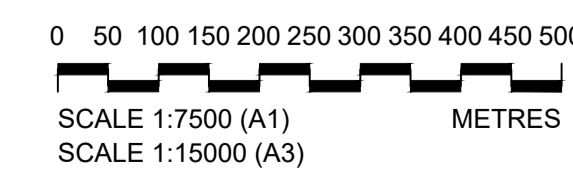




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P01	S8	19/10/2022	DCO Application	LY	BB	ASB

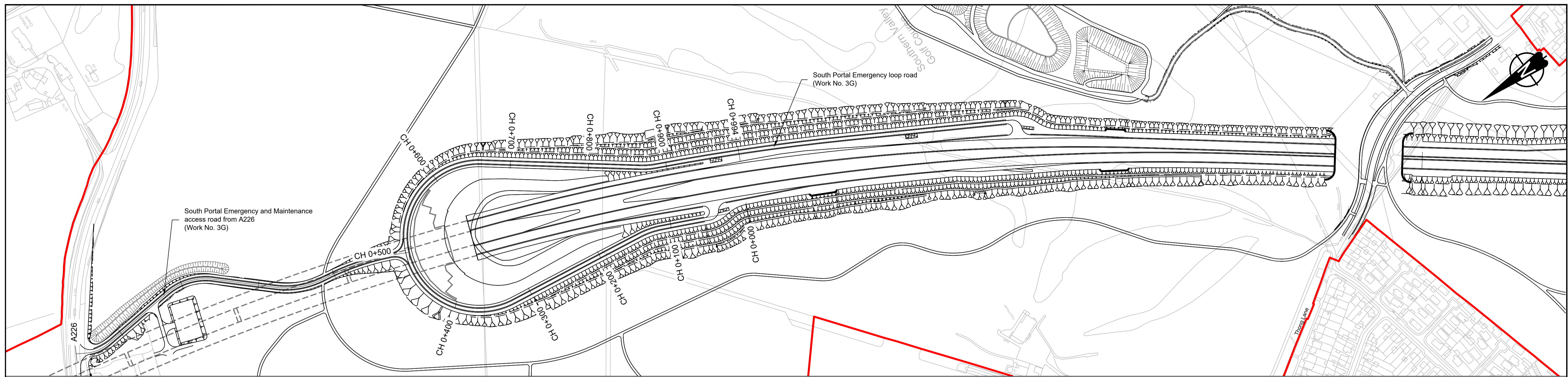
- LEGEND:**
- Proposed Route
  - Order Limits
  - - - Local Authority Boundary



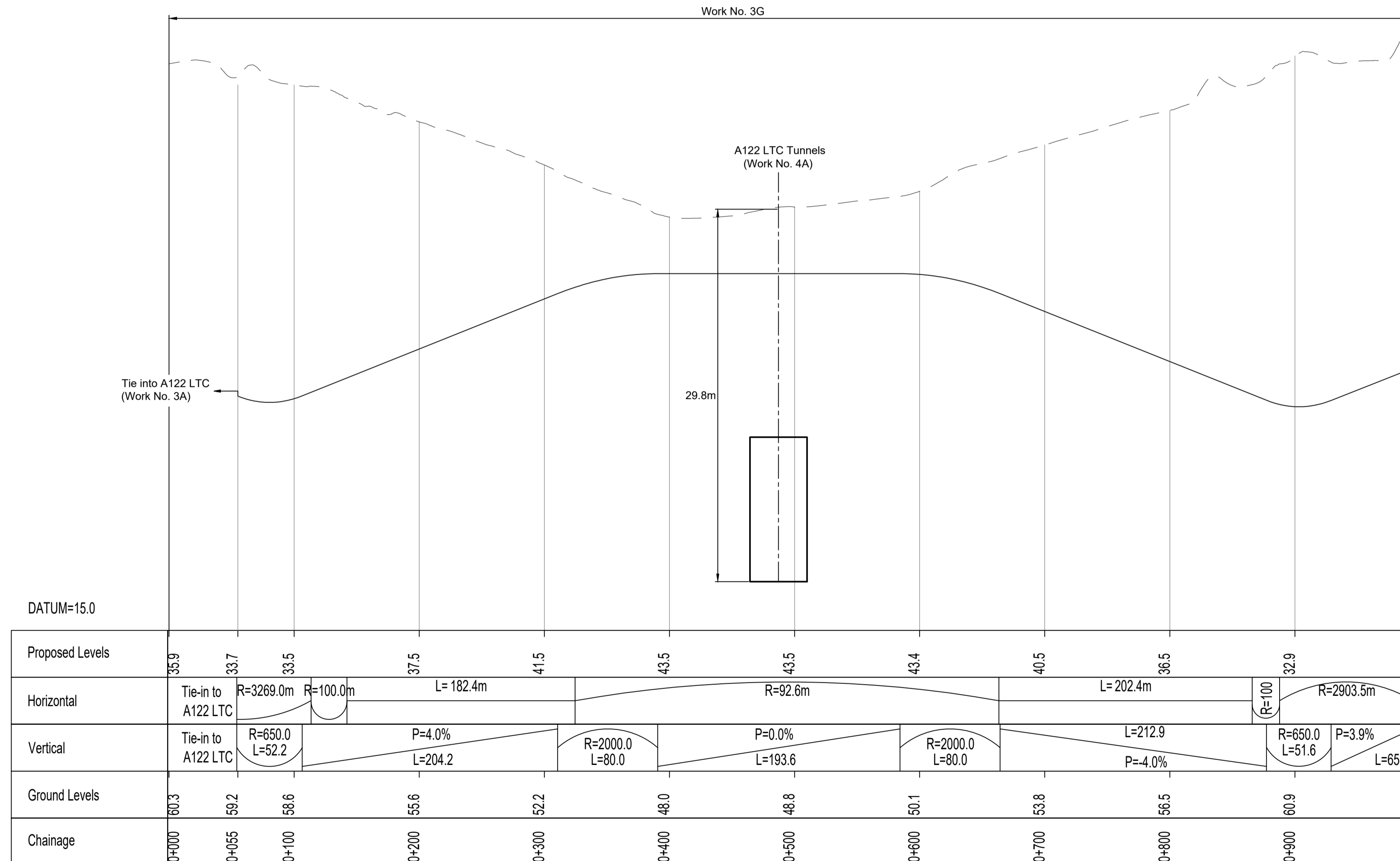
Client 

Project **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.9	Scale	1:5000		
Drawing Title	<b>SOUTH PORTAL - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) KEY PLAN</b>				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10300				



PLAN



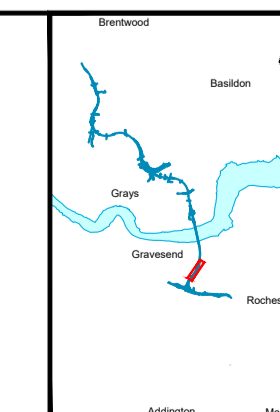
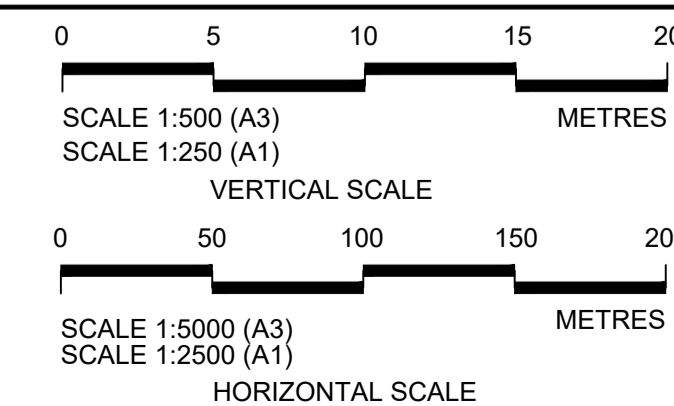
SOUTH PORTAL EMERGENCY LOOP ROAD PROFILE

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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

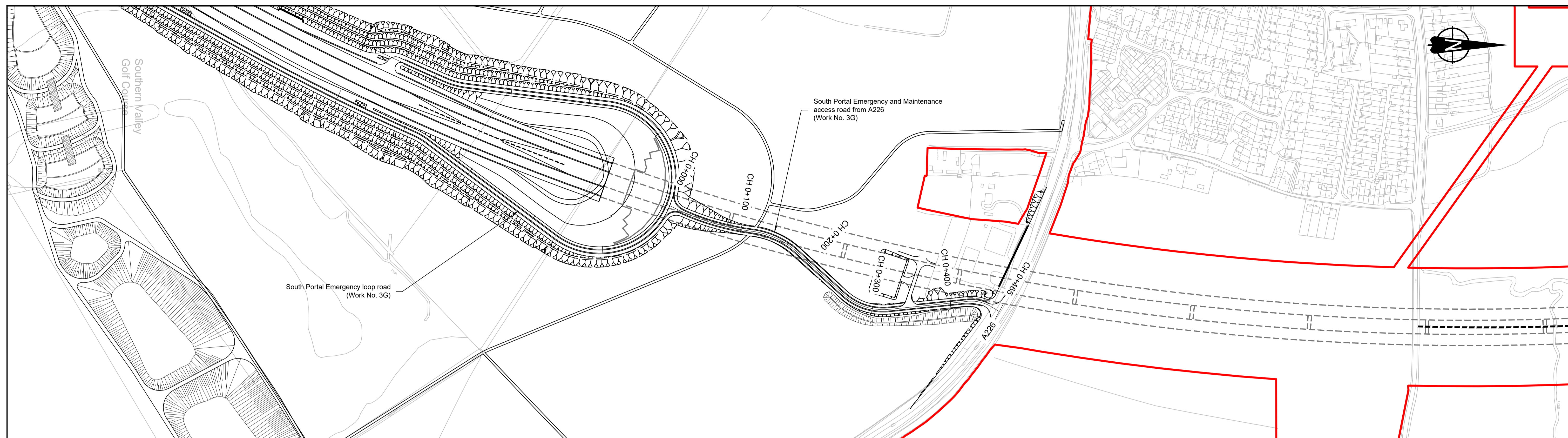
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- LEGEND:
- Existing ground level
  - == Structure
  - Proposed road level
  - ▭ Structures - Bridge
  - ▭ Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MLWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - ▨ Maintenance access
  - Order Limits

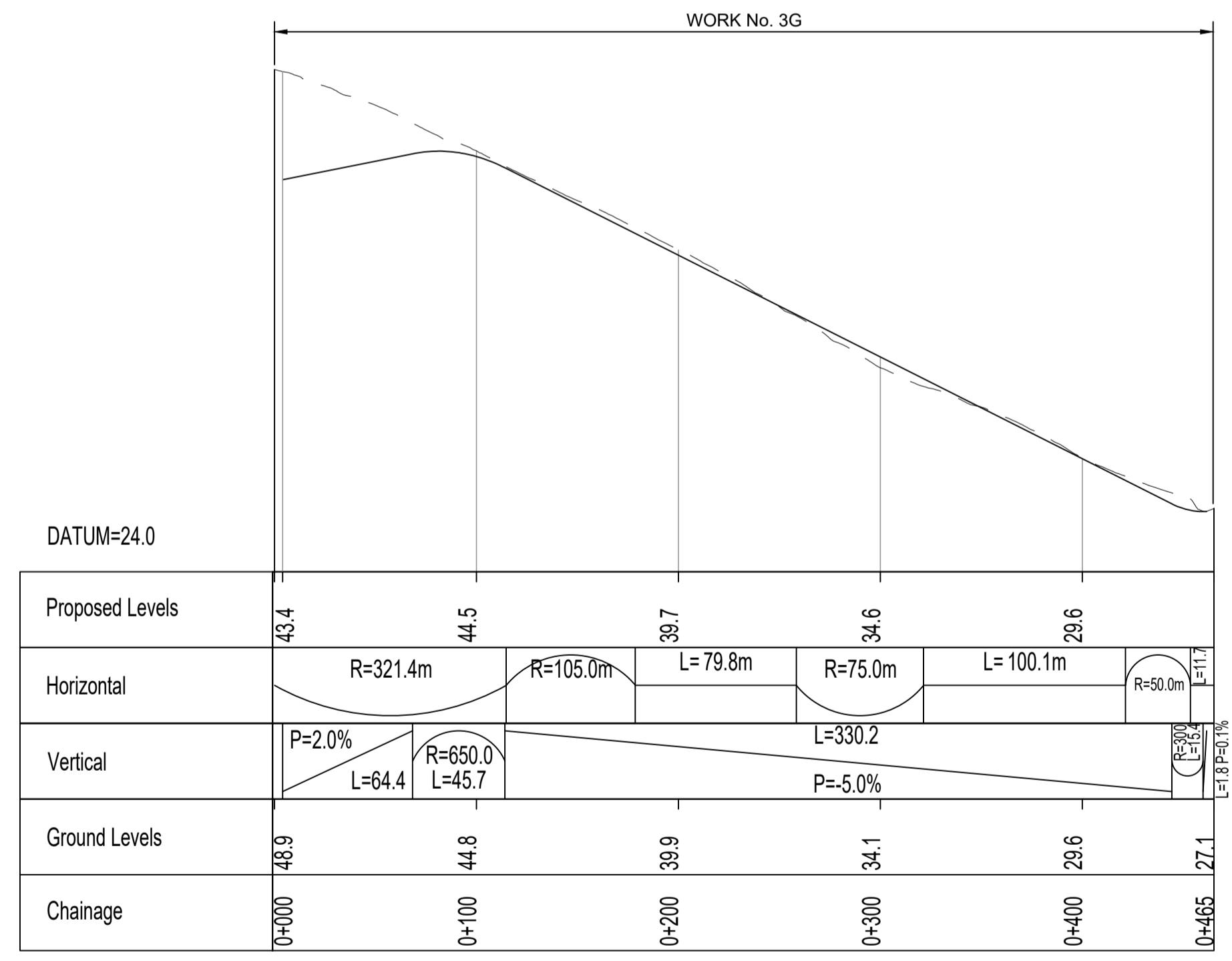


Client  
national highways  
Project  
LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	SOUTH PORTAL - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 1				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10301				



PLAN



SOUTH PORTAL EMERGENCY AND MAINTENANCE ACCESS ROAD TO A226 PROFILE

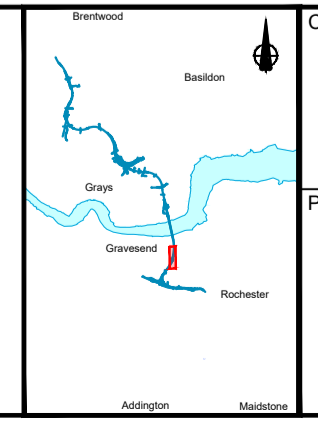
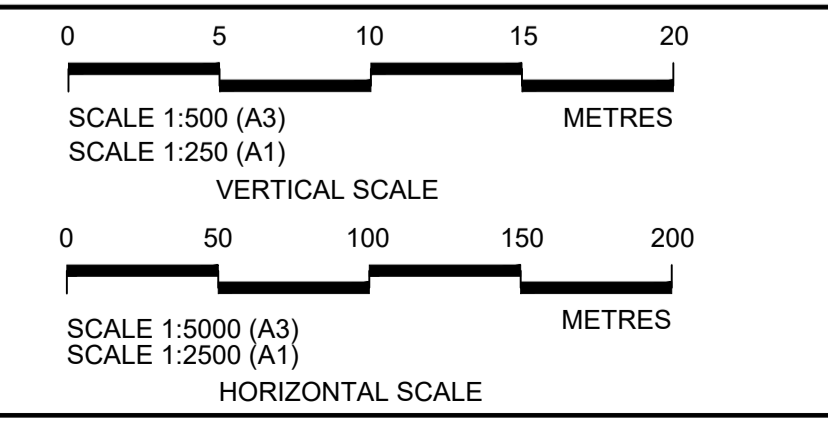
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB

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LEGEND:

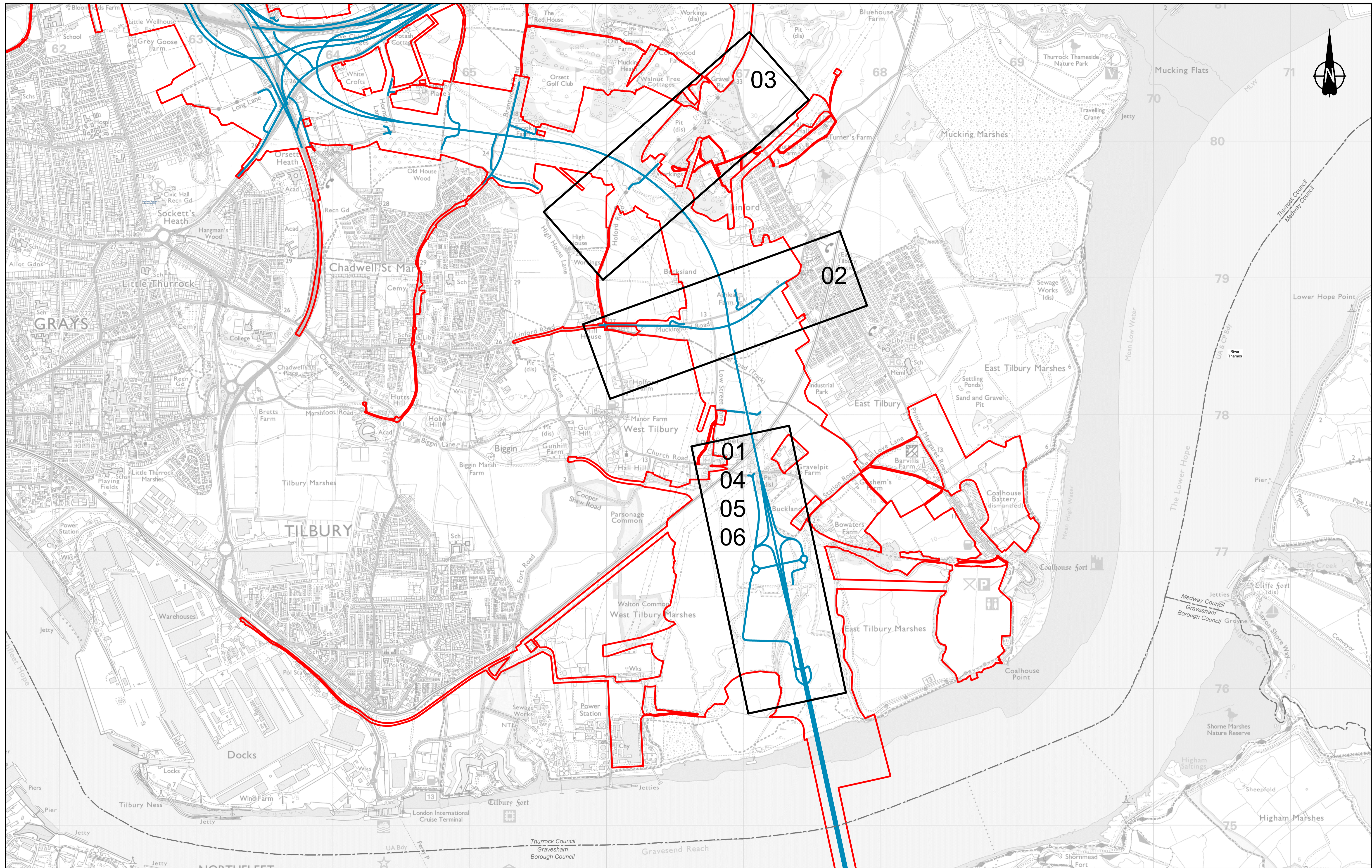
- Existing ground level
- == Structure
- Proposed road level
- ▭ Structures - Bridge
- ▭ Structures - Underpass
- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound
- MLWS - Mean Low Water Springs
- FRL - Finished Road Level
- ▨ Maintenance access
- Order Limits



national highways

Project LOWER THAMES CROSSING

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	SOUTH PORTAL - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 2				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10302				

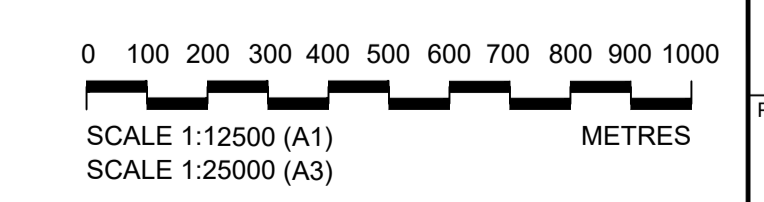


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P01	S8	19/10/2022	DCO Application	LY	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

**LEGEND:**

- Proposed Route
- Order Limits
- - - - - Local Authority Boundary

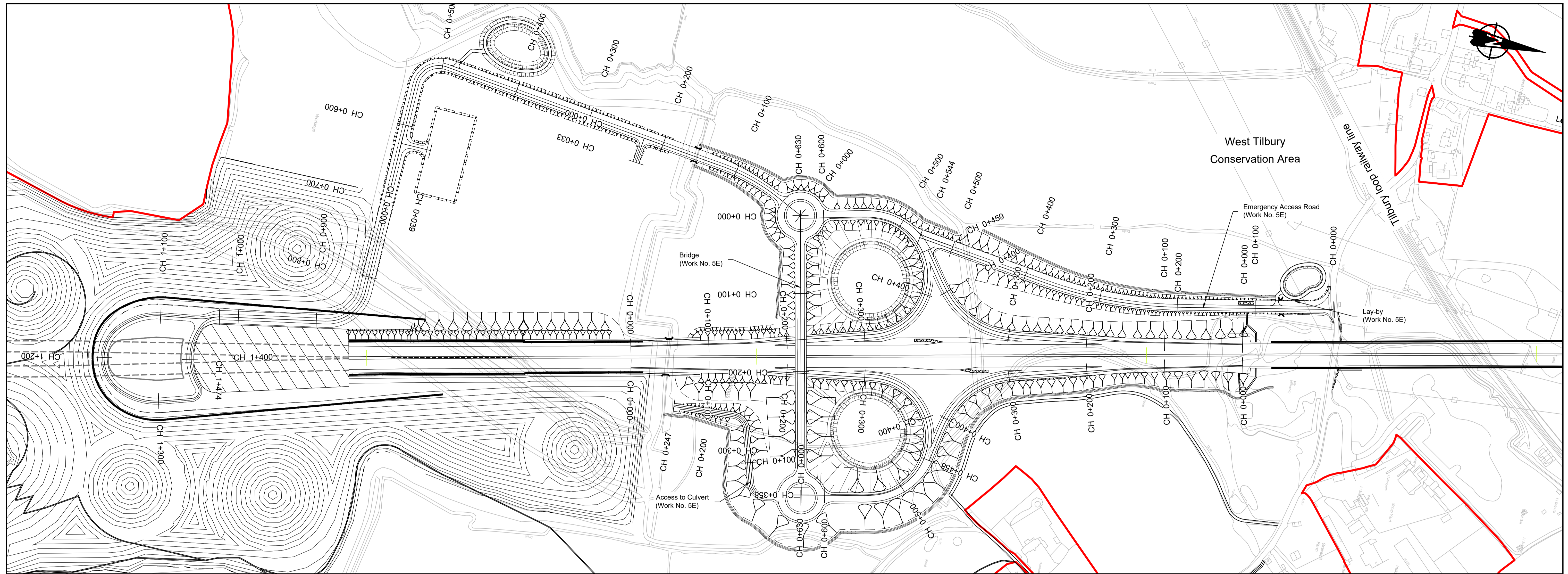


Client **national highways**

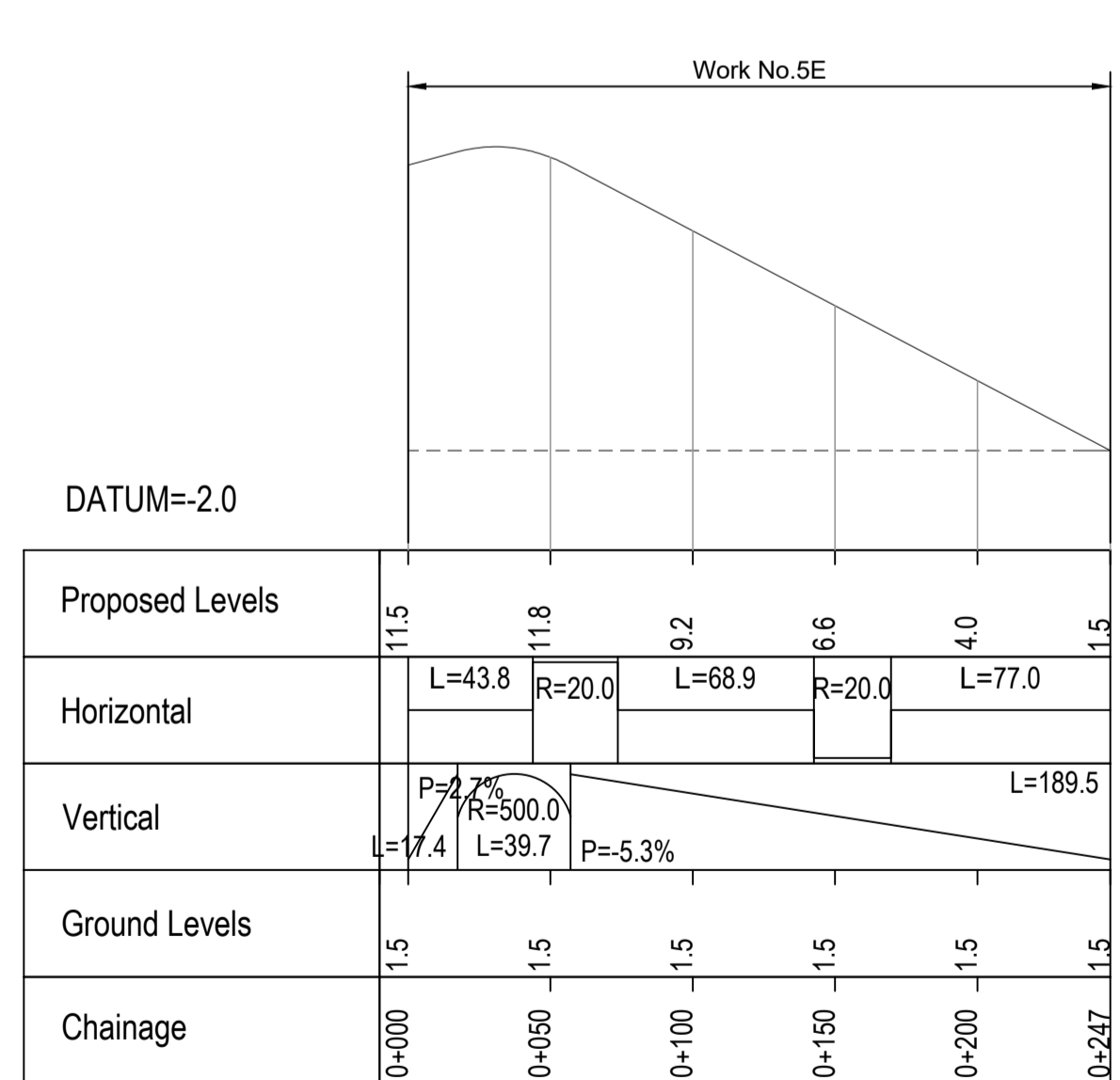
Project **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.9	A1	P01
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Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10400		

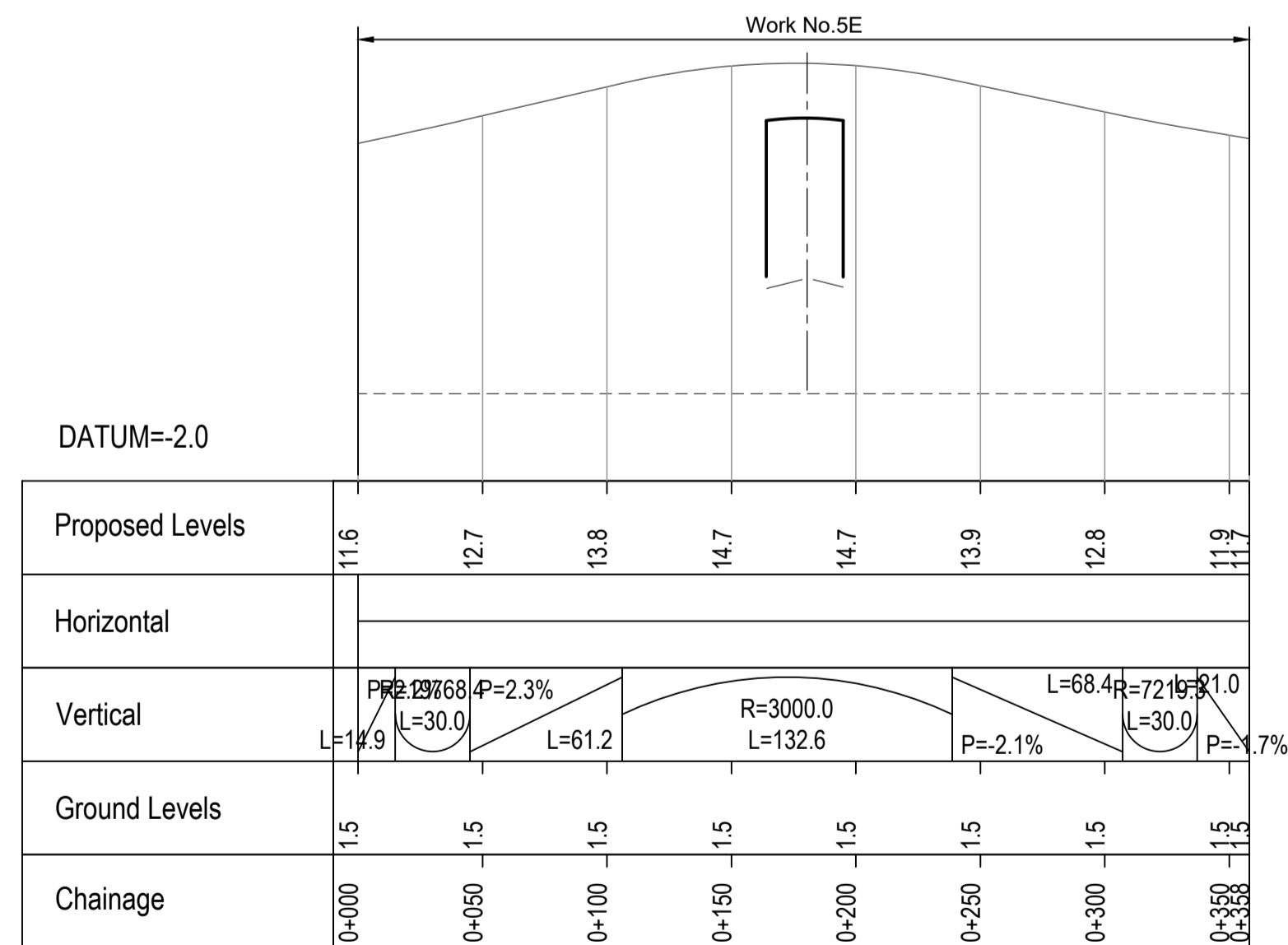
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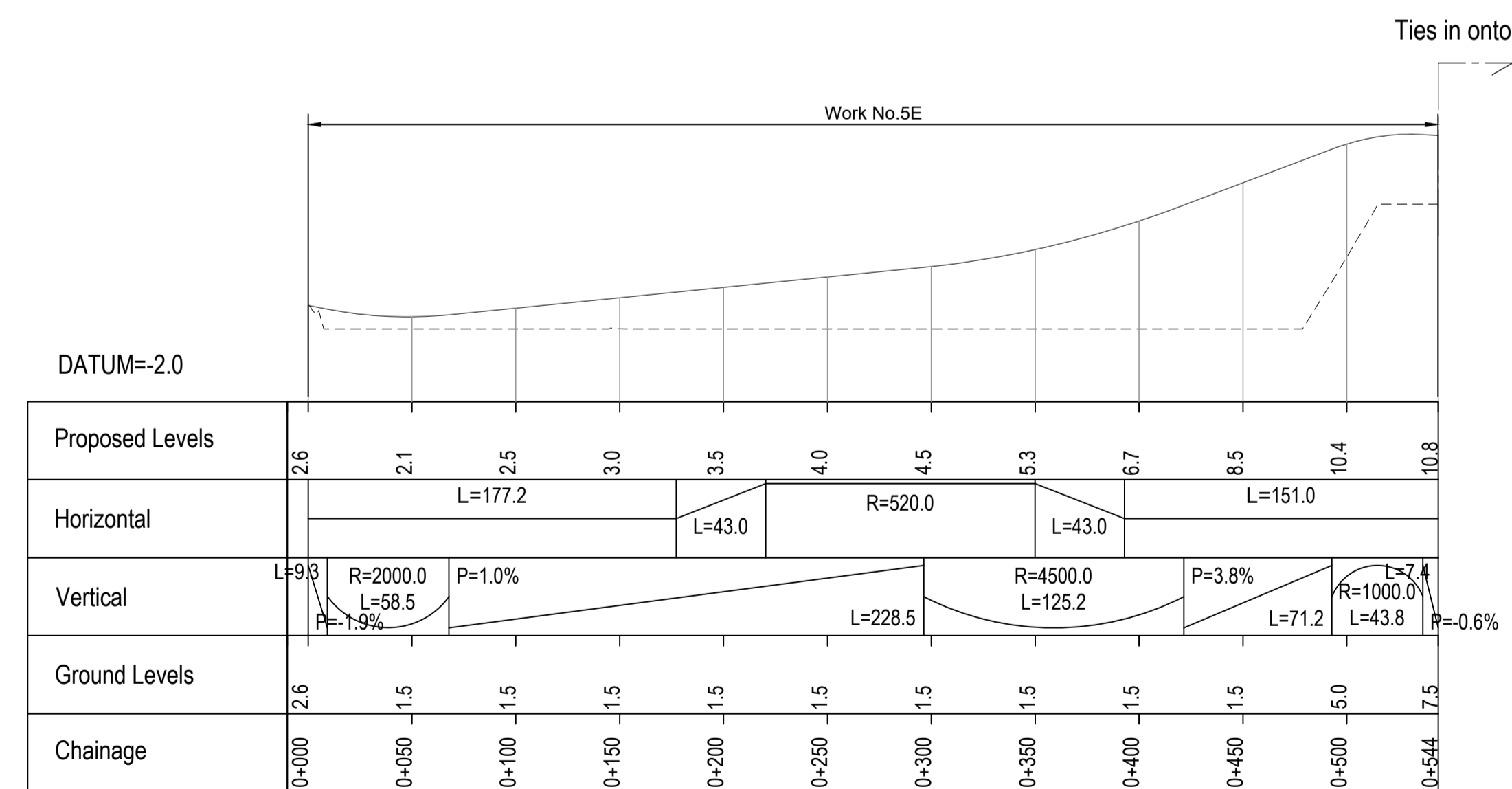
PLAN



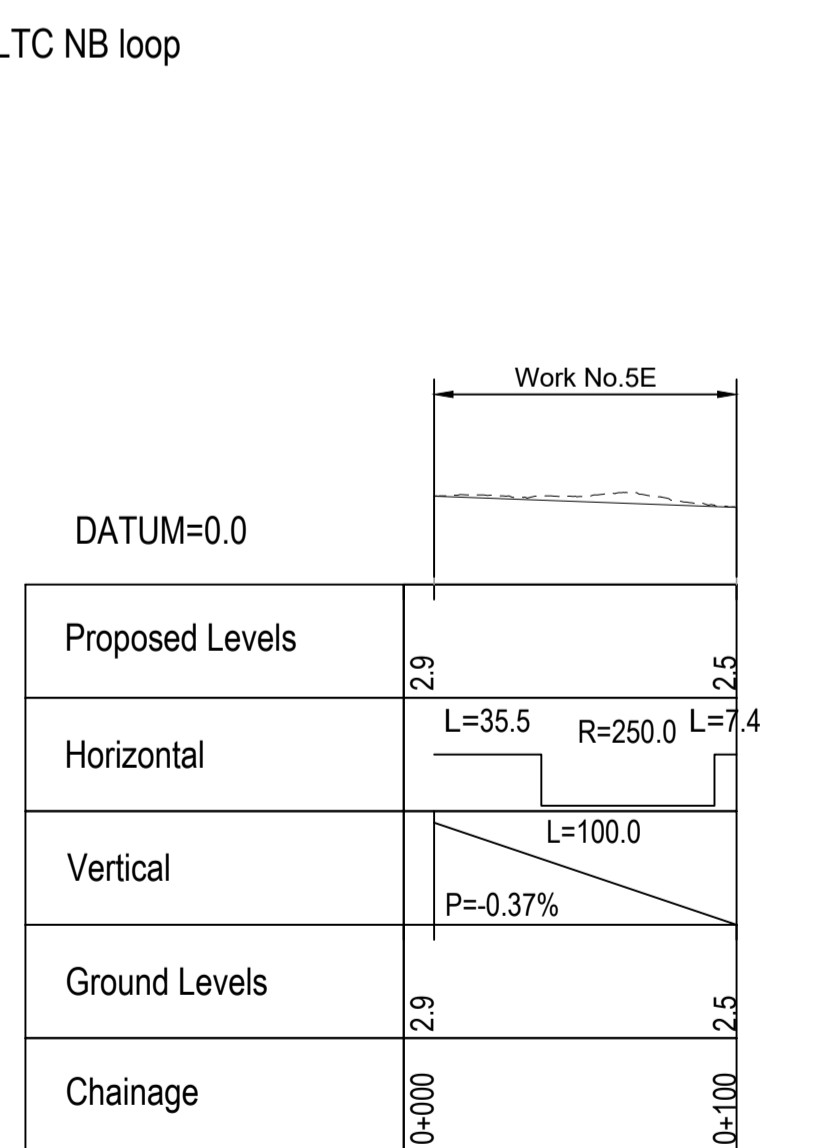
ACCESS TO CULVERT PROFILE



BRIDGE PROFILE



EMERGENCY ACCESS ROAD PROFILE



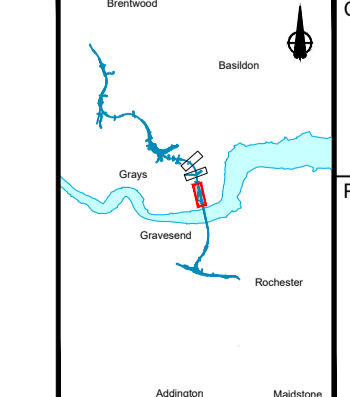
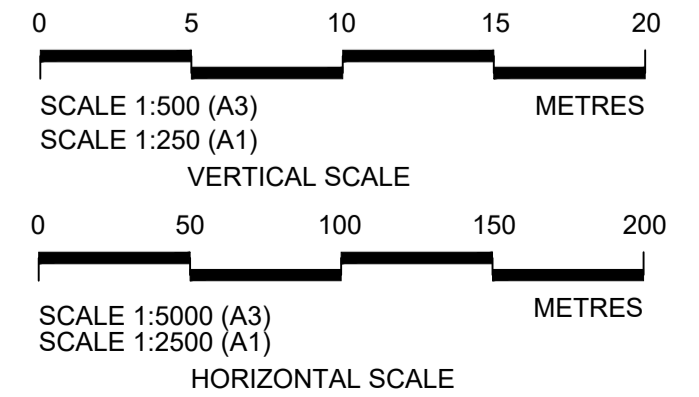
LAY-BY PROFILE

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P01	SB	19/10/2022	DCO Application	LY	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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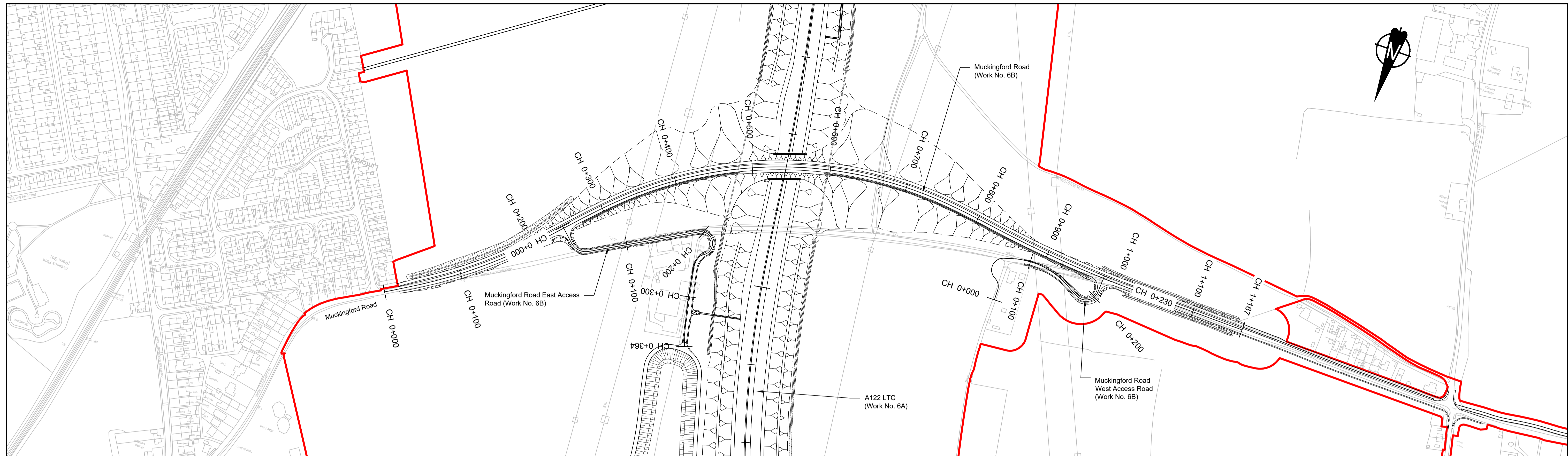
- LEGEND:
- Existing ground level
  - Structure
  - Proposed road level
  - Structures - Bridge
  - Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - Maintenance access
  - Order Limits



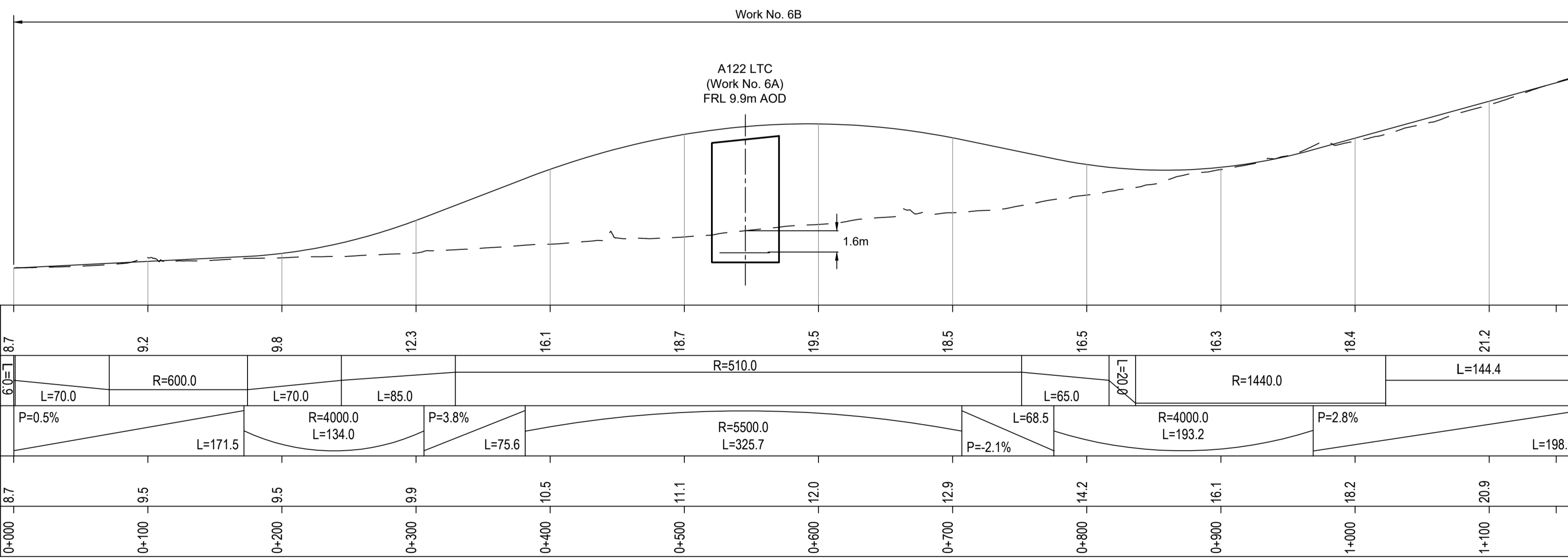
Client: national highways

Project: LOWER THAMES CROSSING

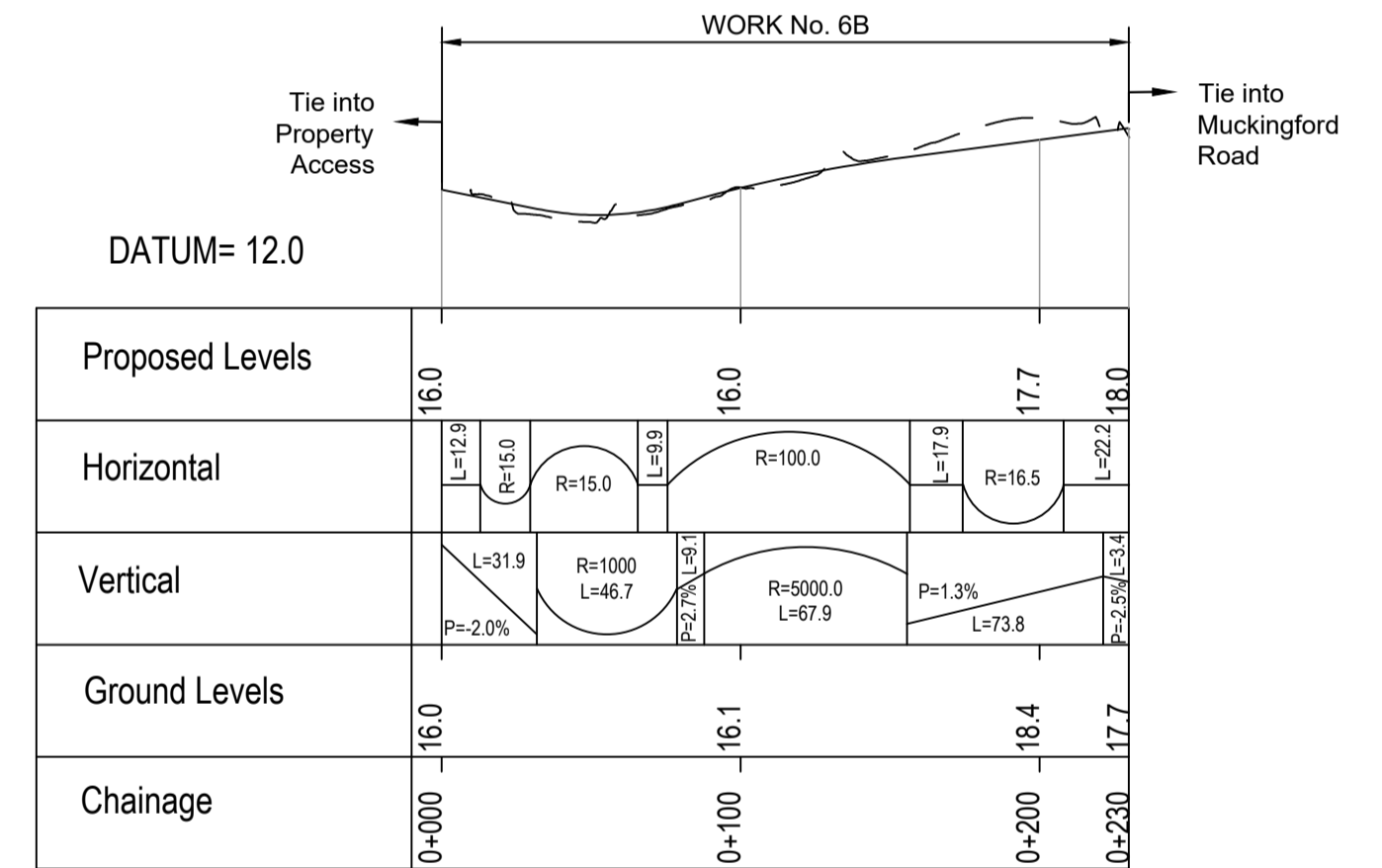
Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	TILBURY - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 1				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10401				



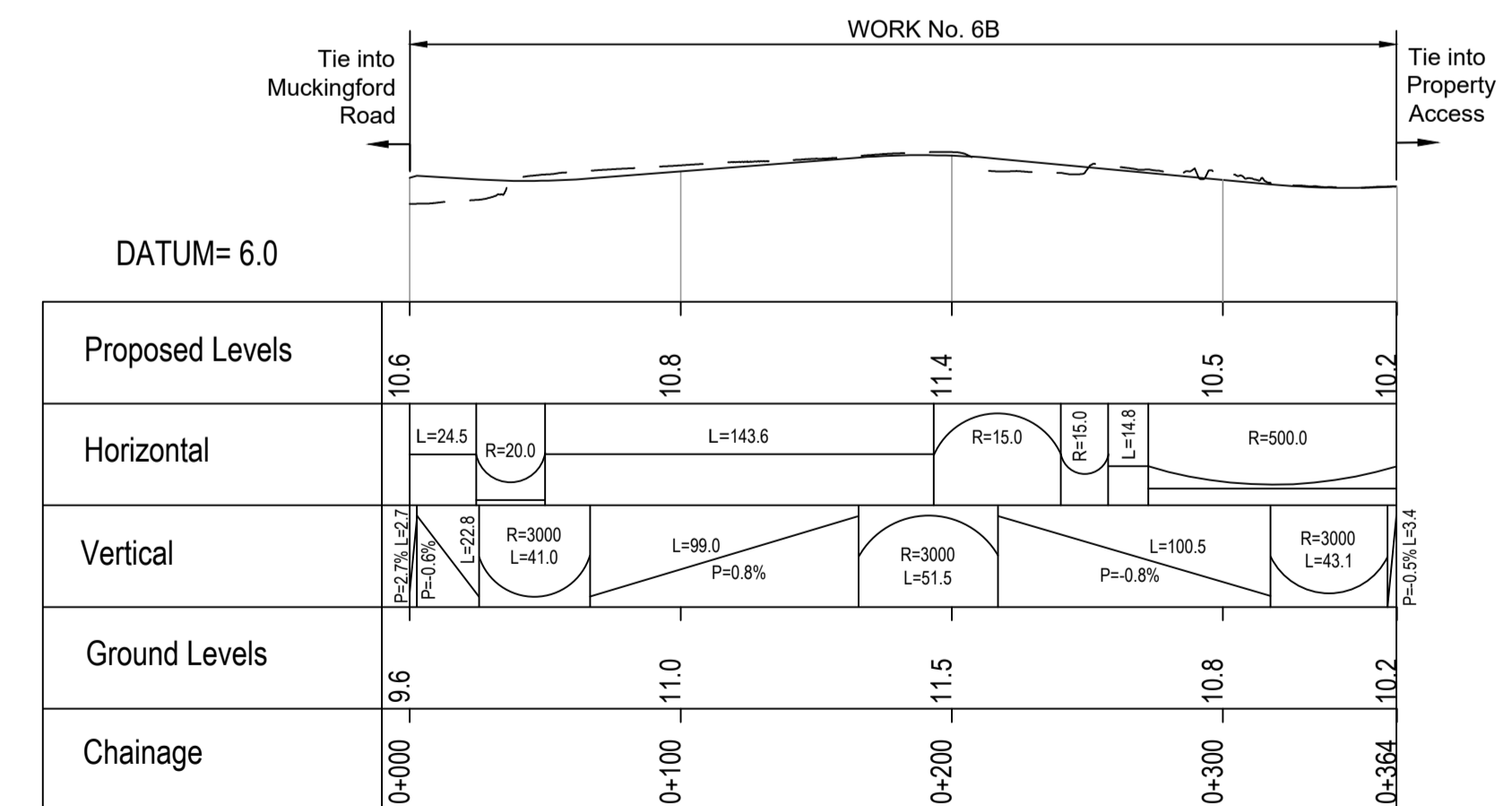
PLAN



MUCKINGFORD ROAD PROFILE



WEST ACCESS ROAD PROFILE

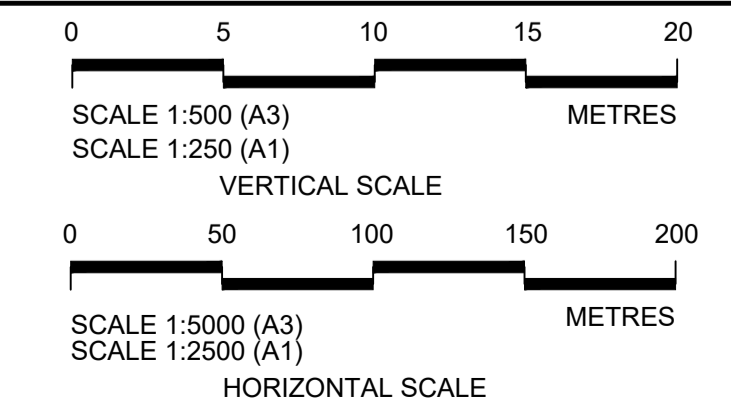


EAST ACCESS ROAD PROFILE

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P01 SB 19/10/2022 DCO Application LY BB ASB Rev Status Rev. Date Purpose of revision Drawn Check'd Appr'd

- NOTES:
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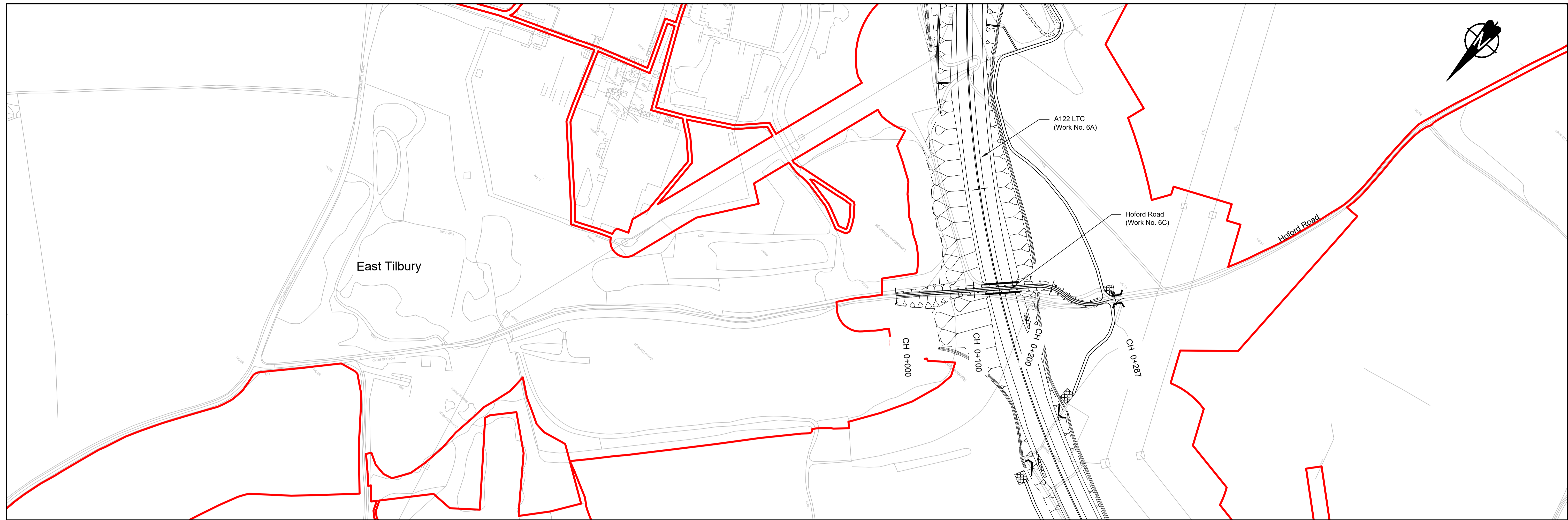
- LEGEND:
- Existing ground level
  - == Structure
  - Proposed road level
  - ▭ Structures - Bridge
  - ▭ Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - ▭ Maintenance access
  - Order Limits



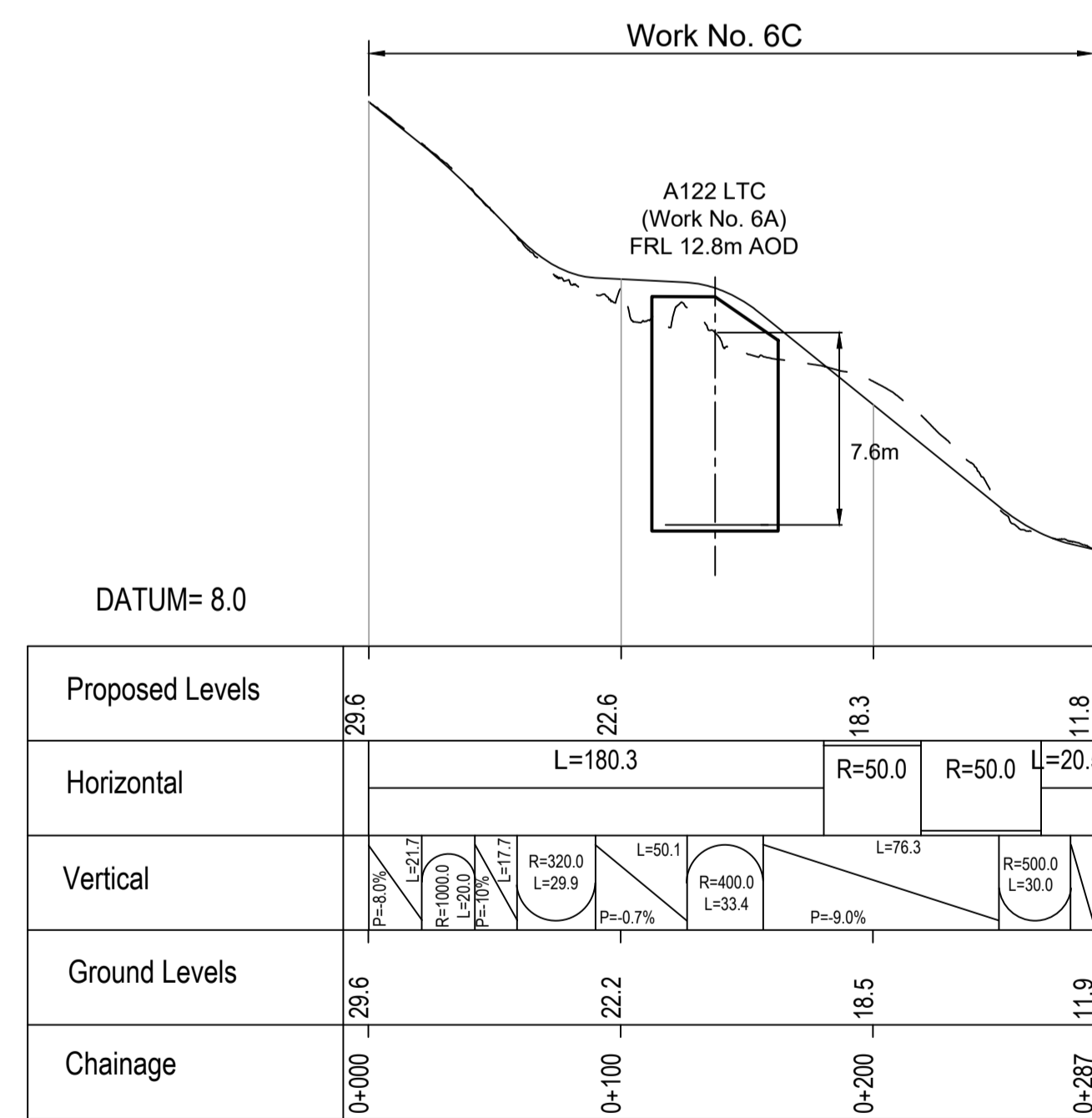
Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Application	Original Size: A1	Revision: P01
Application Document Number: TR010032/APP/2.9	Scale: AS SHOWN	
Drawing title: TILBURY - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 2		
Drawing Number: HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10402		



PLAN



HOFORD ROAD PROFILE

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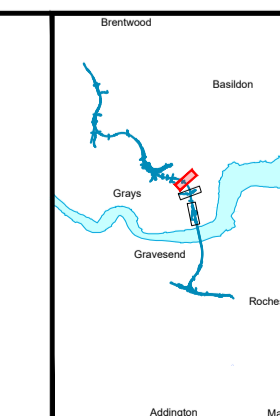
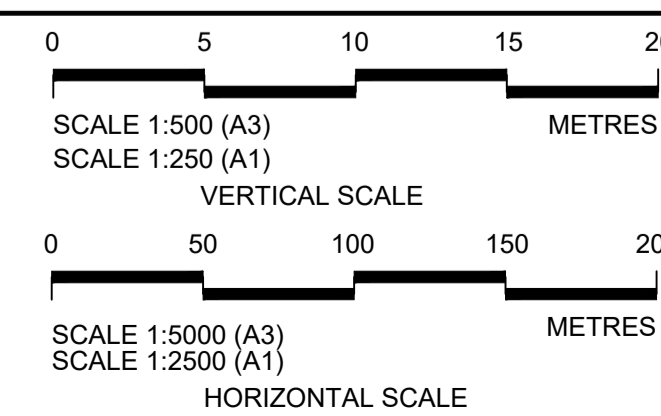
P01	SB	19/10/2022	DCO Application	LY	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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- Profile uses an exaggerated scale of 1 horizontal : 10 Vertical.

LEGEND:

- - - Existing ground level
- ▬ Structure
- Proposed road level
- ▭ Structures - Bridge
- ▭ Structures - Underpass
- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound
- MHWS - Mean High Water Springs
- MLWS - Mean Low Water Springs
- FRL - Finished Road Level
- ▨ Maintenance access
- Order Limits

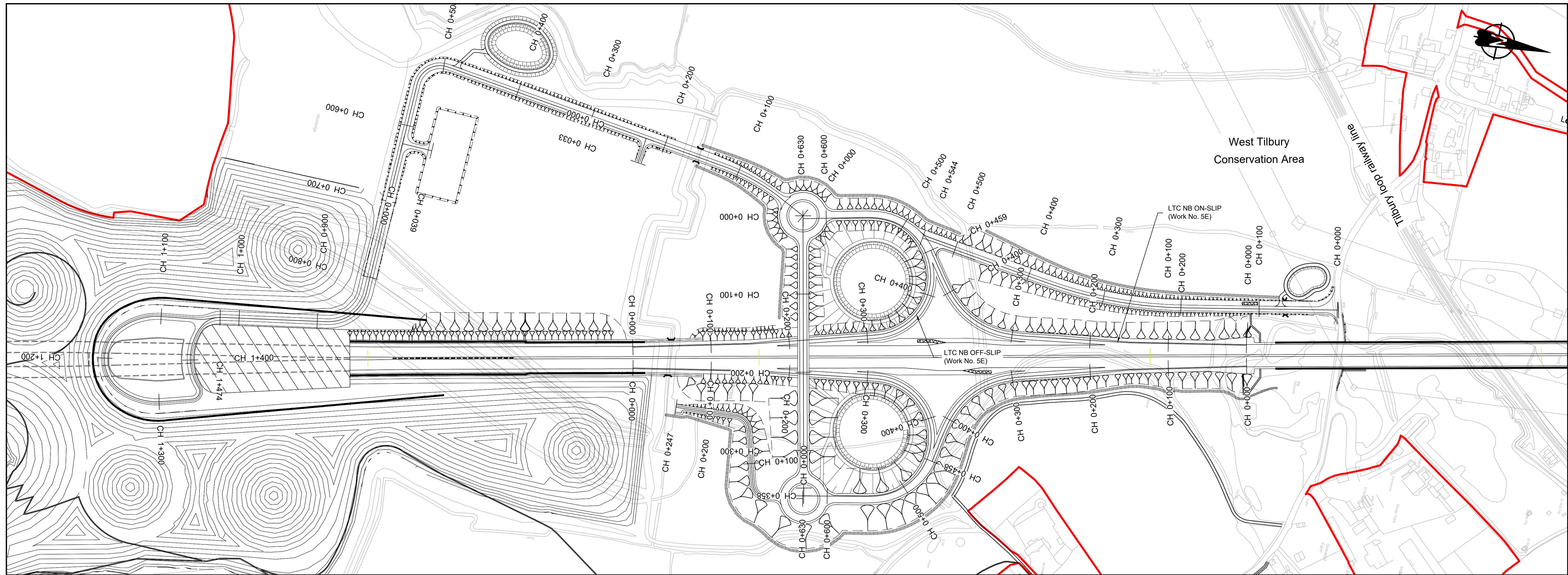


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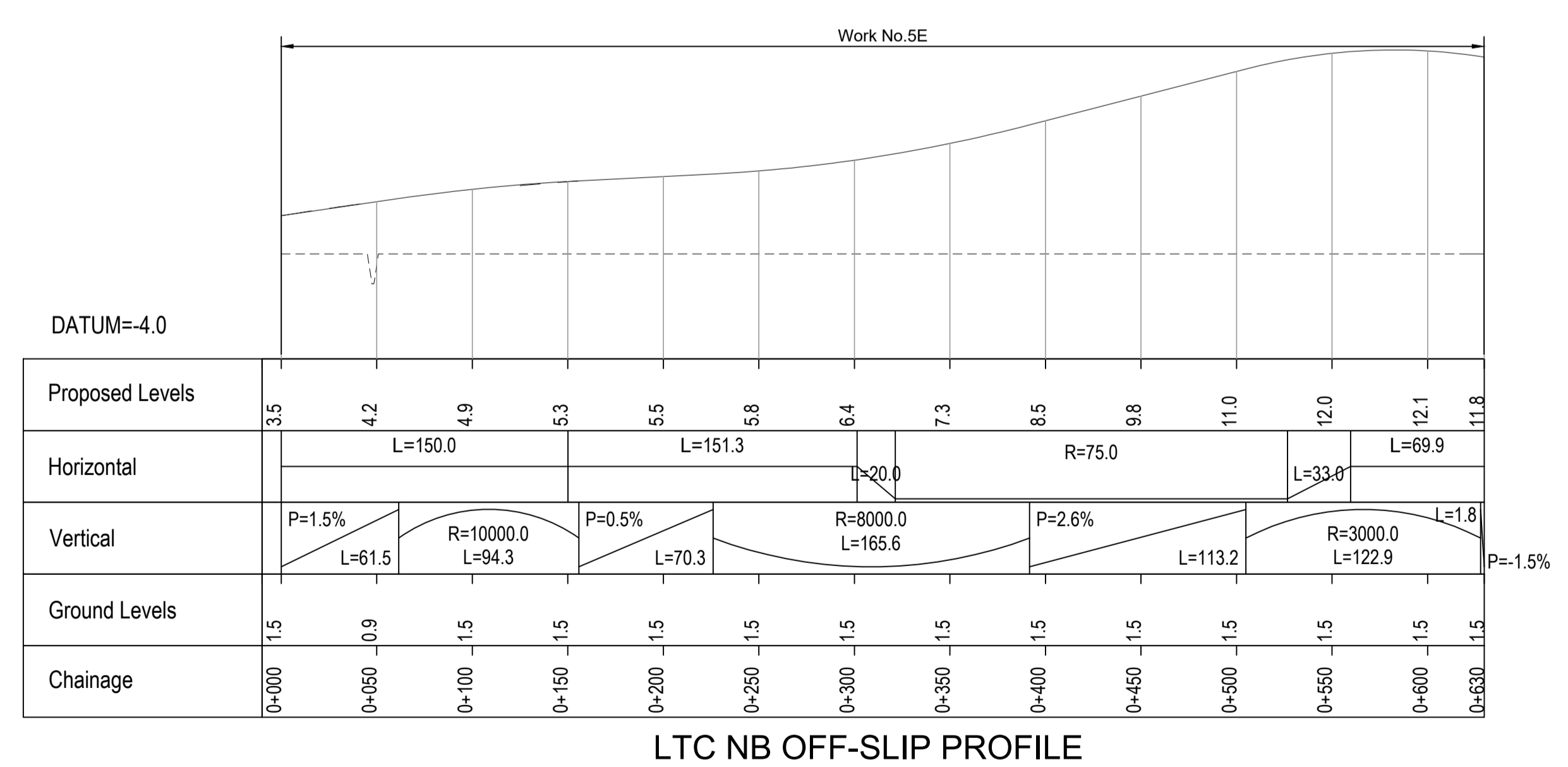
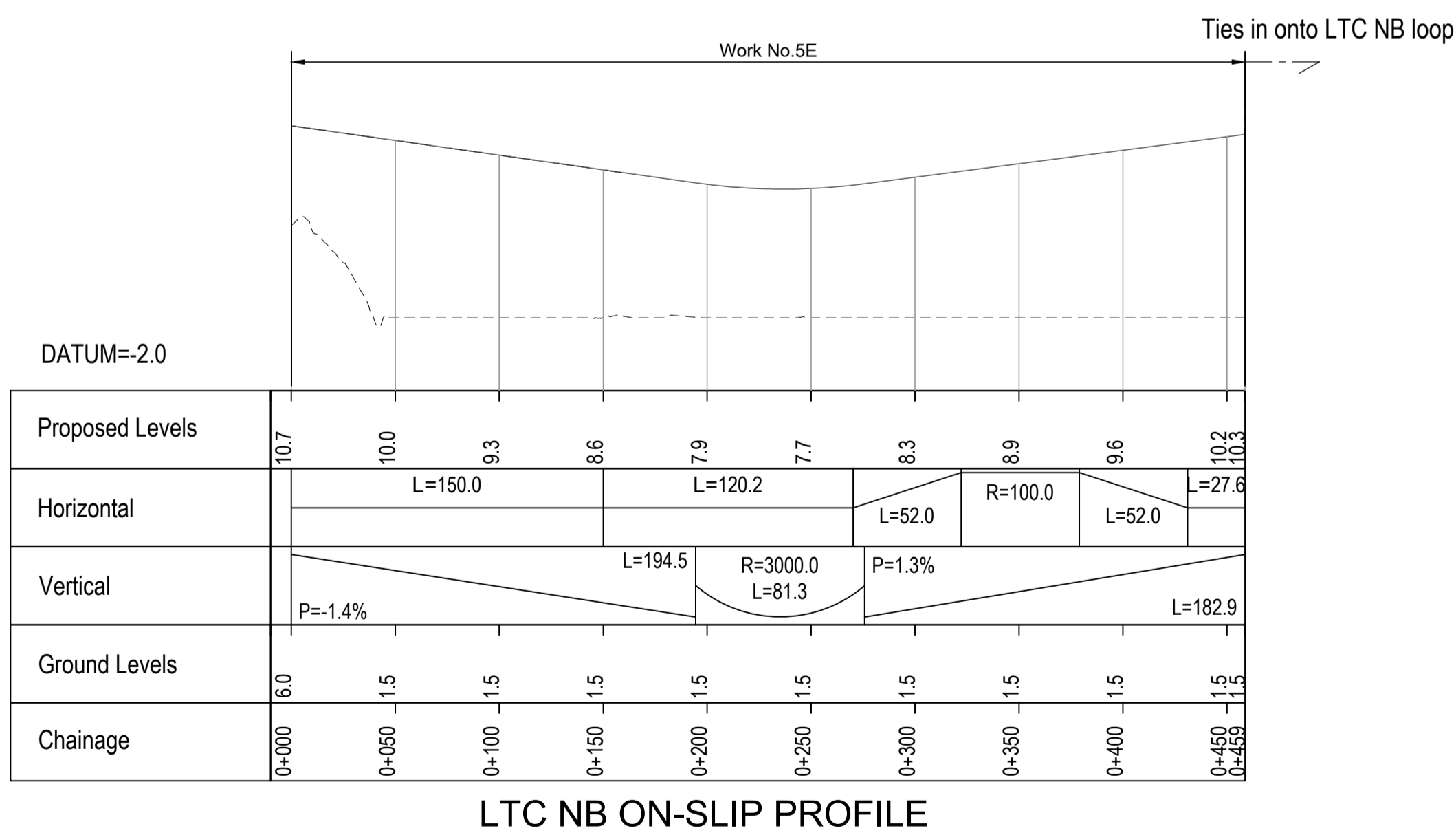
Project

**LOWER THAMES CROSSING**

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.9	A1	P01
Drawing title	TILBURY - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 3		
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10403		



PLAN



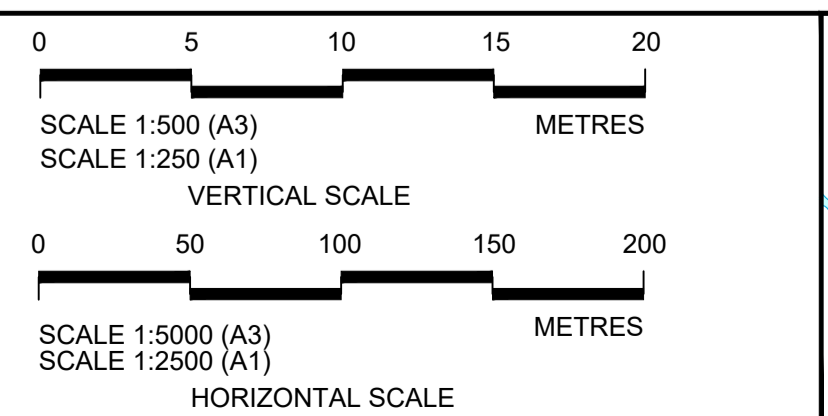
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P01 SB 19/10/2022 DCO Application LY BB ASB
Rev Status Rev. Date Purpose of revision Drawn Check'd Appr'd

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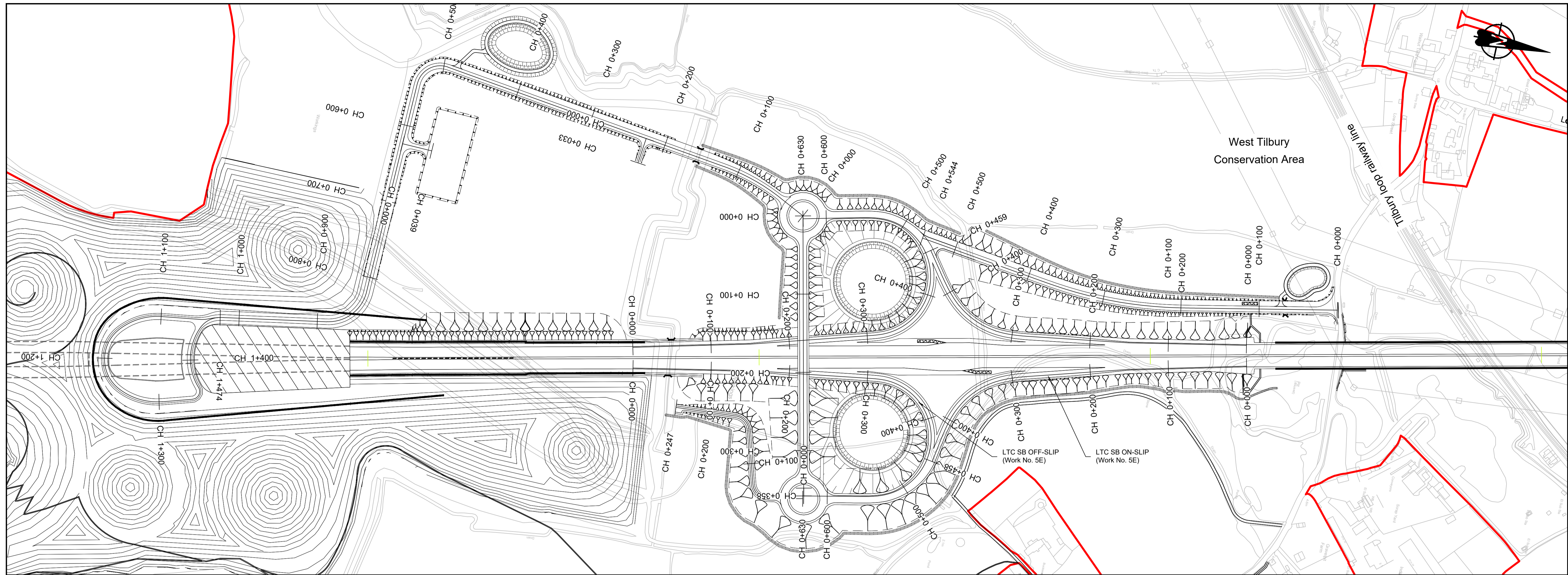
LEGEND:

- - - Existing ground level
- Structure
- Proposed road level
- Structures - Bridge
- Structures - Underpass
- NB - Northbound
- WB - Westbound
- EB - Eastbound
- SB - Southbound
- MHWS - Mean High Water Springs
- MLWS - Mean Low Water Springs
- FRL - Finished Road Level
- Maintenance access
- Order Limits

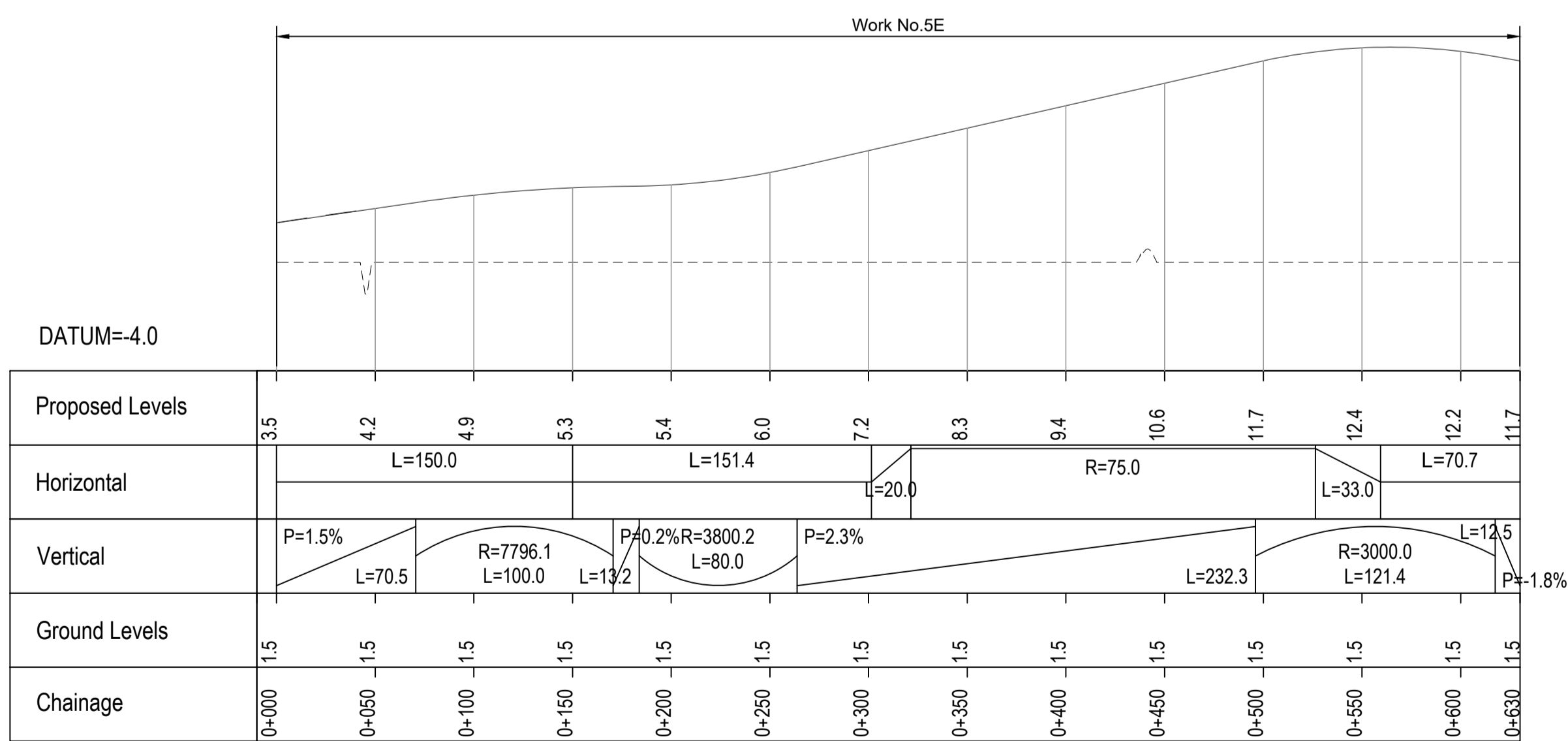


Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
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Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10405				

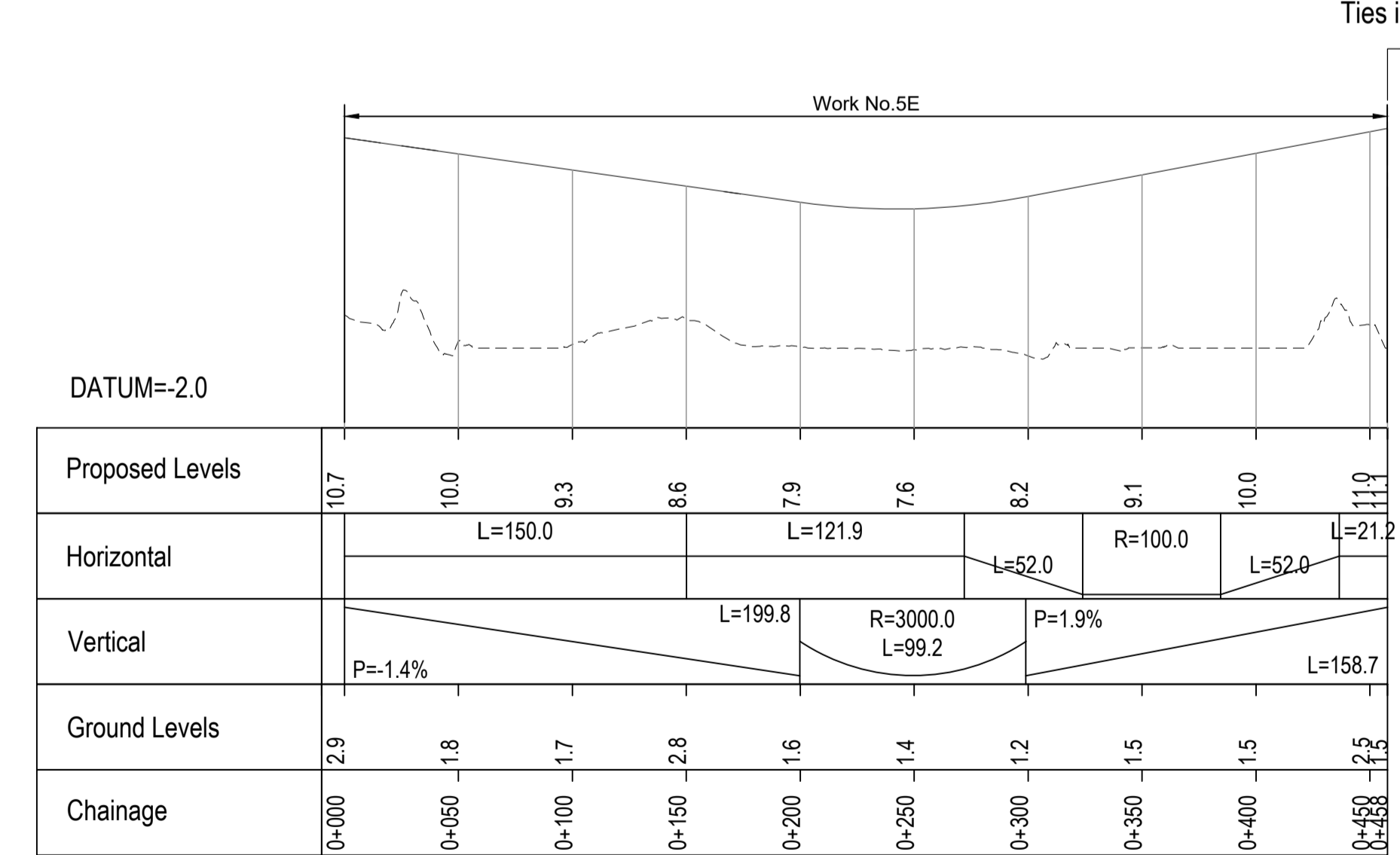




PLAN



LTC SB ON-SLIP PROFILE



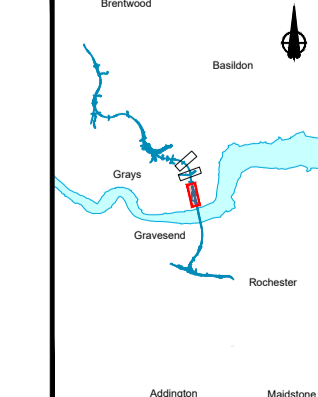
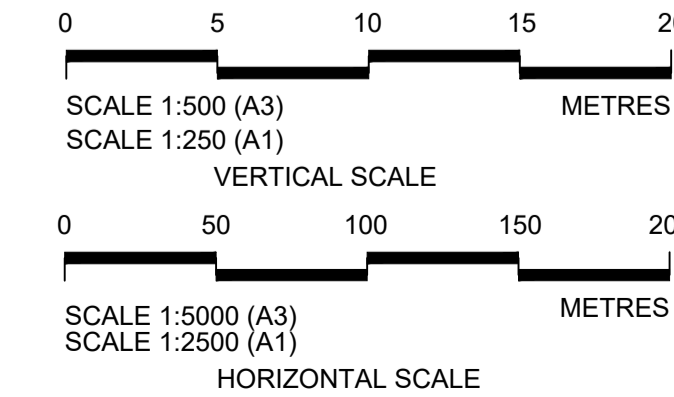
LTC SB OFF-SLIP PROFILE

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P01	SB	19/10/2022	DCO Application	LY	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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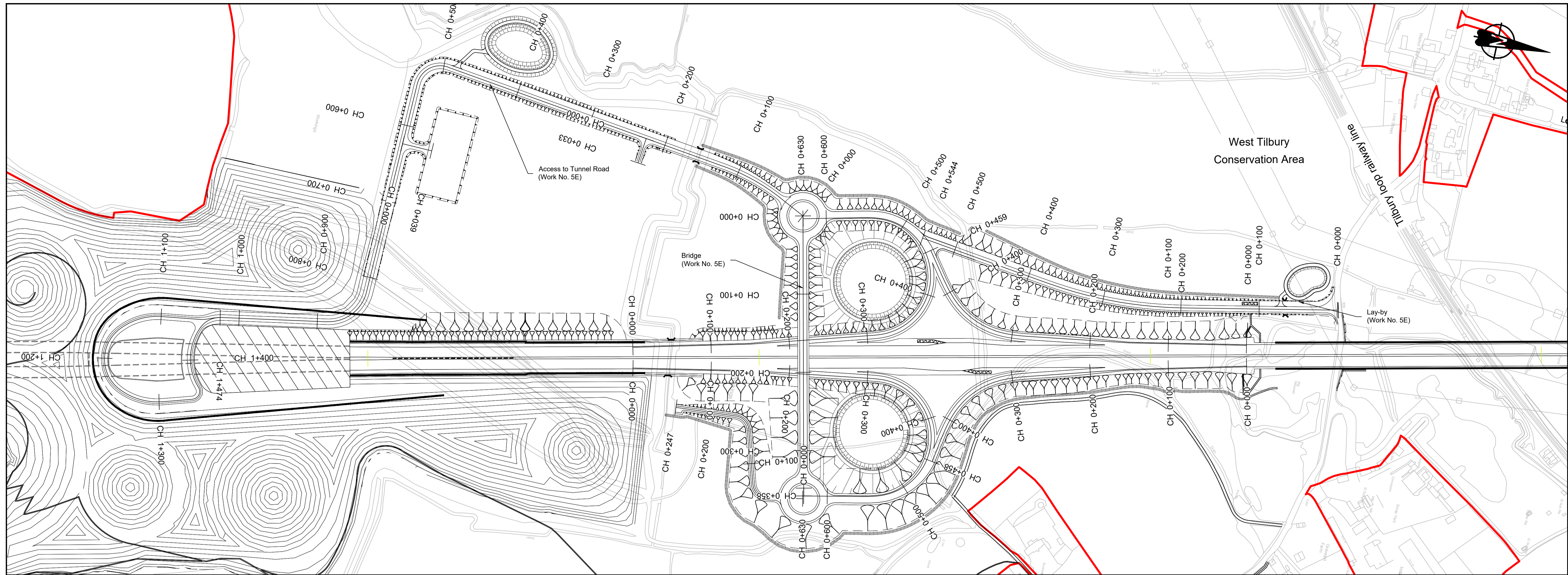
- LEGEND:
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  - Structure
  - Proposed road level
  - Structures - Bridge
  - Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - Maintenance access
  - Order Limits



Client: national highways

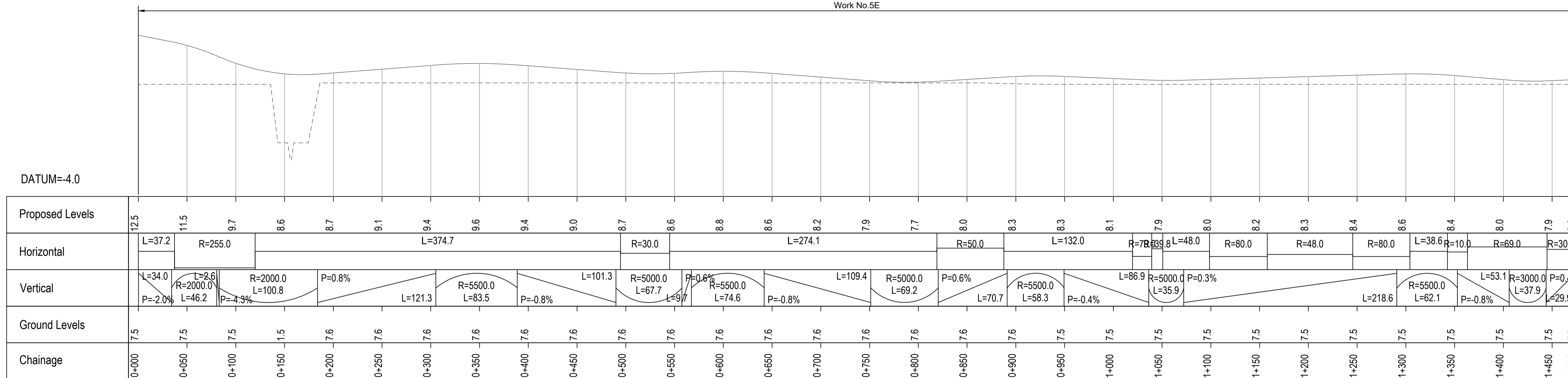
Project: LOWER THAMES CROSSING

Status	DCO Application	Original Size	Revision
Application Document Number	TR010032/APP/2.9	A1	P01
Drawing title	TILBURY - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 5		
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10406		



PLAN

Work No.5E



ACCESS TO TUNNEL ROAD PROFILE

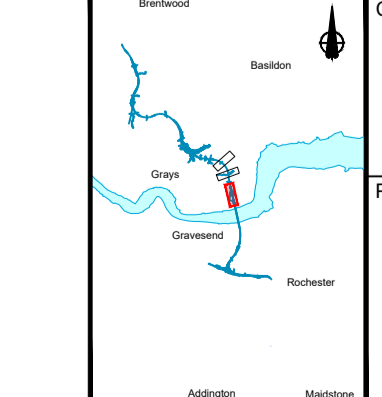
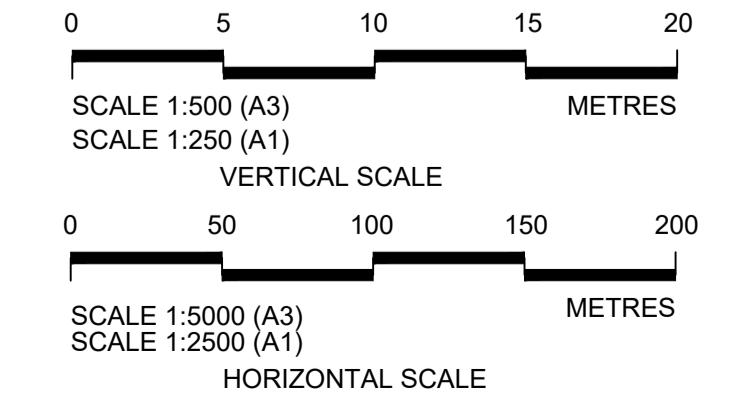
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P01	SB	19/10/2022	DCO Application	LY	BB	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd

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- LEGEND:**
- - - Existing ground level
  - ▬ Structure
  - ▬ Proposed road level
  - ▭ Structures - Bridge
  - ▭ Structures - Underpass
  - NB - Northbound
  - WB - Westbound
  - EB - Eastbound
  - SB - Southbound
  - MHWS - Mean High Water Springs
  - MLWS - Mean Low Water Springs
  - FRL - Finished Road Level
  - ▭ Maintenance access
  - ▭ Order Limits



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Application	Original Size	A1	Revision	P01
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	<b>TILBURY - PLAN AND PROFILES REGULATION 5(2)(o) AND 6(2) SHEET 6</b>				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10407				

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