A19 Downhill Lane Junction Improvement

Scheme Number: TR010024

2.6(1) Engineering Drawings and Sections

APFP Regulation 5(2)(o)

Planning Act 2008

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

Volume 2

October 2019

Infrastructure Planning

Planning Act 2008

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

A19 DOWNHILL LANE JUNCTION IMPROVEMENT

The A19 (Downhill Lane Junction Improvement) Development Consent Order 201[ ]

ENGINEERING DRAWINGS AND SECTIONS

Regulation Number:	Regulation 5(2)(o) & Regulation 6(2)
Planning Inspectorate Scheme Reference	TR010024
Application Document Reference	TR010024/APP/2.6(1)
Author:	A19 Project Team, Highways England & Jacobs

Version	Date	Status of Version
Rev 1	October 2019	Submission for Deadline 3
Rev 0	January 2019	Application Issue

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CONTENTS

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1 INTRODUCTION

1.1 These Engineering Drawings & Sections (these "Drawings") relate to an application made by Highways England (the "Applicant") to the Planning Inspectorate ("the Inspectorate") under section 37 of the Planning Act 2008 (the "2008 Act") for a Development Consent Order (DCO). If made, the DCO would grant consent for the Applicant to undertake the A19 Downhill Lane Junction Improvement (the "Scheme"). A detailed description of the Scheme can be found in the Environmental Statement **(Application Document Reference: TR010024/APP/6.1)**.

1.2 These Drawings comprise part of the suite of Application documentation and is included in the Application in compliance with Regulations 5(2)(o) and Regulation 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, 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"

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 waters or an inland waterway; and

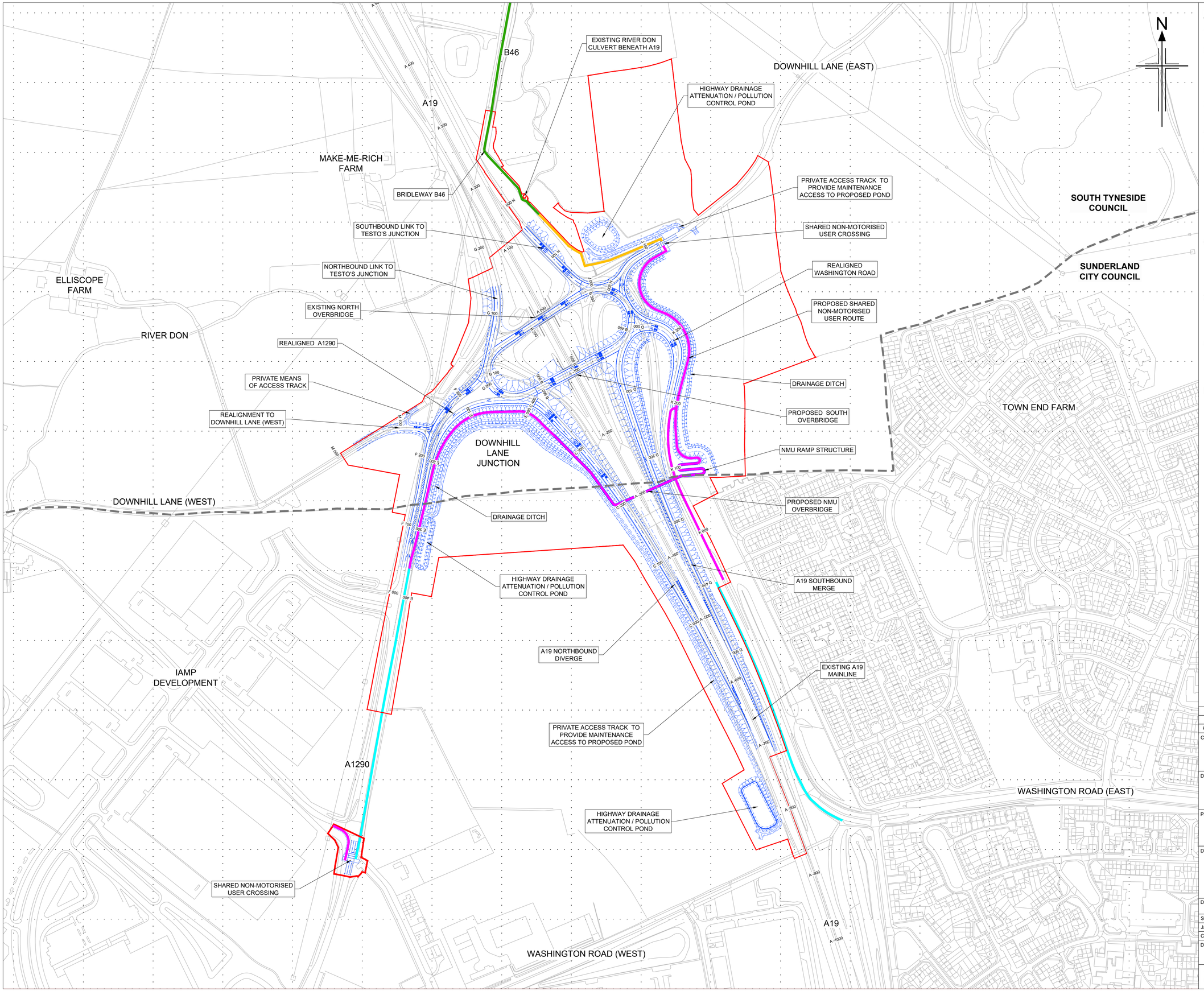
(vi) drainage outfall details for highways;

(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 or through which it would pass.

1.3 These Drawings are part of the Application documentation, they should be read alongside and is informed by the other Application documents. In particular, these Drawings should be read alongside Schedule 1 of the draft Development Consent Order **(Application Document Reference: TR010024/APP/3.1)**.

2 SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT

Document Title	Document Number	Revision
Engineering Drawings - Highways General Arrangement – APFP Regulation 5(2)(o) – Sheet 1 of 2	TR010024/APP/2.6.1(A)	1
Engineering Drawings - Highways General Arrangement – APFP Regulation 5(2)(o) – Sheet 2 of 2	TR010024/APP/2.6.1(B)	1
Engineering Drawings - Highways Longitudinal Sections – APFP Regulation 5(2)(o) – Sheet 1 of 3	TR010024/APP/2.6.2(A)	0
Engineering Drawings - Highways Longitudinal Sections – APFP Regulation 5(2)(o) – Sheet 2 of 3	TR010024/APP/2.6.2(B)	0
Engineering Drawings - Highways Longitudinal Sections – APFP Regulation 5(2)(o) – Sheet 3 of 3	TR010024/APP/2.6.2(C)	0
Engineering Drawings - Structures – South Junction Overbridge – APFP Regulation 5(2)(o)	TR010024/APP/2.6.3(A)	0
Engineering Drawings – Structures – Non-Motorised User Overbridge – APFP Regulation 5(2)(o)	TR010024/APP/2.6.3(B)	0
Engineering Drawings – Structures – Non-Motorised User Ramps – APFP Regulation 5(2)(o)	TR010024/APP/2.6.3(C)	0
Engineering Drawings – Drainage General Arrangement – APFP Regulation 5(2)(o)	TR010024/APP/2.6.4	0



NOTES

1. All dimensions are in metres unless stated otherwise.
2. The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Scheme.
3. For Engineering Long Sections, Regulation 6(2) see drawings TR010024/APP/2.6.2(A) to 2.6.2(C).
4. All structure positions are indicative.
5. Plans to be read in conjunction with all of the plans and documents included in the Development Consent Order application. The proposed works will be subject to detailed design development. The changes will be limited to being within the limits of land to be acquired or used permanently and any other constraint included in the Development Consent Order (Document Reference TR010024/APP/3.1).
6. Details of vehicular access and NMU facilities are subject to detailed design work but will be within the extents of the limits of deviation as identified on Works Plans (Document Reference TR010024/APP/2.4(A) to 2.4(B))
7. The heights of proposed bridges and embankments and the depth of proposed cuttings are marked as required on engineering section drawings and are indicative.
8. Proposed road links subject to a speed limit greater than 75kph (47mph) will be surfaced with Low Noise Road Surfacing (LNRS).

KEY

- The Design (shown for illustrative purposes)
- Limits of land to be acquired permanently or temporarily
- Existing Public Right Of Way
- Public Right of Way to be improved
- Existing NMU Route
- Proposed NMU Route
- Local Authority Boundary

0 50 100 150 200 250 m

SCALE 1 : 2500

1	25/10/2019	DEADLINE 3 SUBMISSION	CR	AP	AP	GW
0	17/12/2018	APPLICATION ISSUE	CR	AP	AP	GW
Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd

Client: highways england

Designer: JACOBS
1 City Walk, Leeds, LS11 9DX
Tel:+44(0)113 242 6771 Fax:+44(0)113 389 1389
www.jacobs.com

Contractor: COSTAIN

Project: A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing title: ENGINEERING DRAWINGS HIGHWAYS GENERAL ARRANGEMENT REGULATION 5(2)(o) SHEET 1 OF 2

Drawing status: DCO - DEADLINE 3 SUBMISSION

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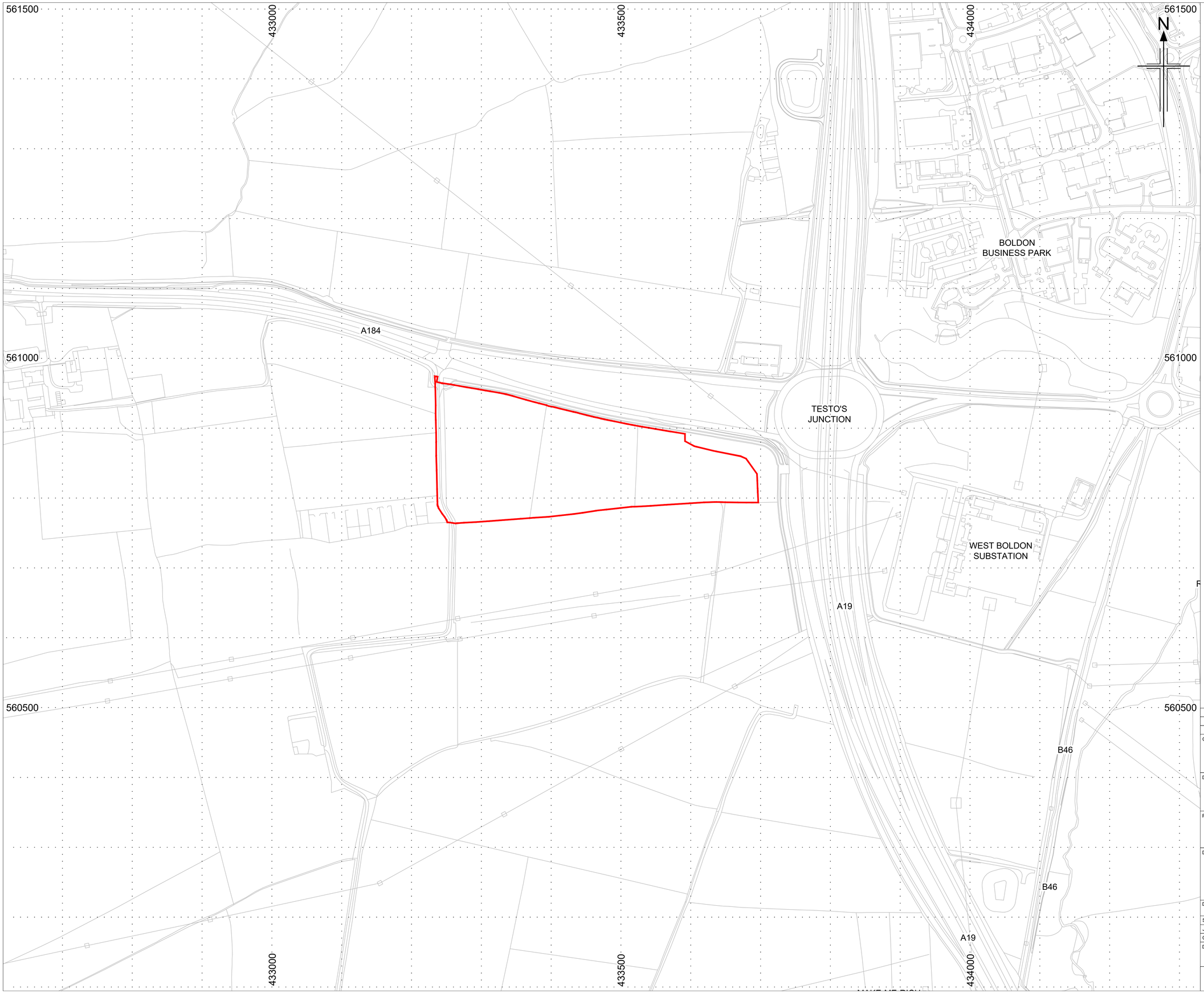
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.1 (A) Rev 1



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KEY

Limits of land to be acquired permanently or temporarily

0 50 100 150 200 250 m

SCALE 1 : 2500

Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd
1	25/10/2019	DEADLINE 3 SUBMISSION	CR	AP	AP	GW
0	17/12/2018	APPLICATION ISSUE	CR	AP	AP	GW

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Tel:+44(0)113 242 8771 Fax:+44(0)113 389 1389
www.jacobs.com

Contractor: COSTAIN

Project

A19 DOWNHILL LANE
JUNCTION IMPROVEMENT

Drawing title

ENGINEERING DRAWINGS
HIGHWAYS GENERAL ARRANGEMENT
REGULATION 5(2)(o)
SHEET 2 OF 2

Drawing status: DCO - DEADLINE 3 SUBMISSION

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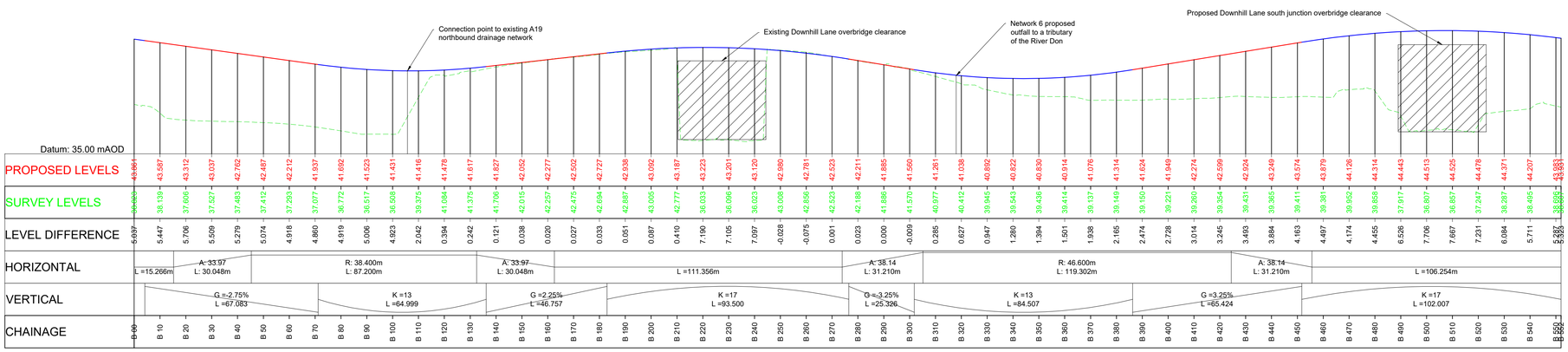
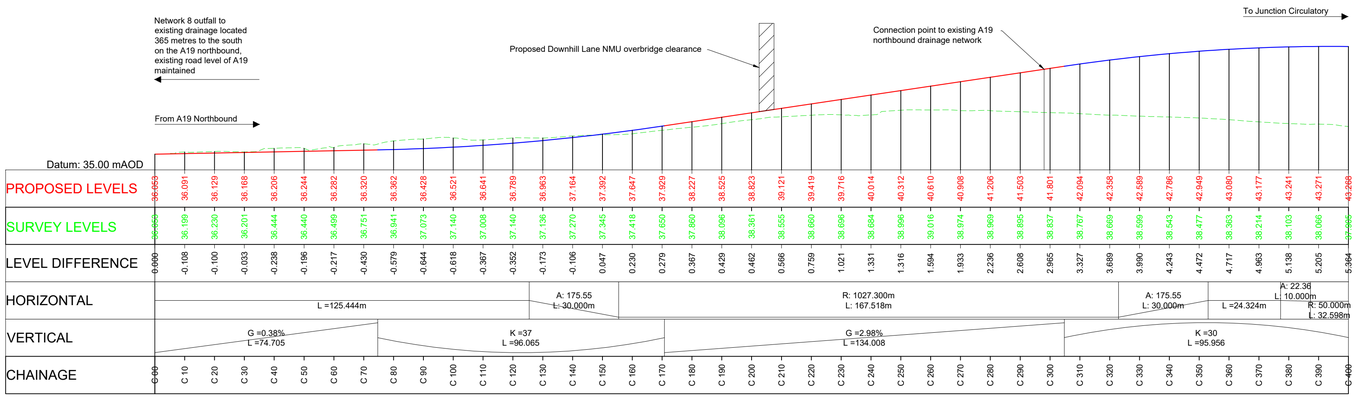
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.1 (B) Rev 1



A19 - DOWNHILL LANE - CIRCULATORY LONGITUDINAL SECTION
SCALE: H 1:1000,V 1:200. DATUM: 35.000



A19 - DOWNHILL LANE - NORTHBOUND DIVERGE - LONGITUDINAL SECTION
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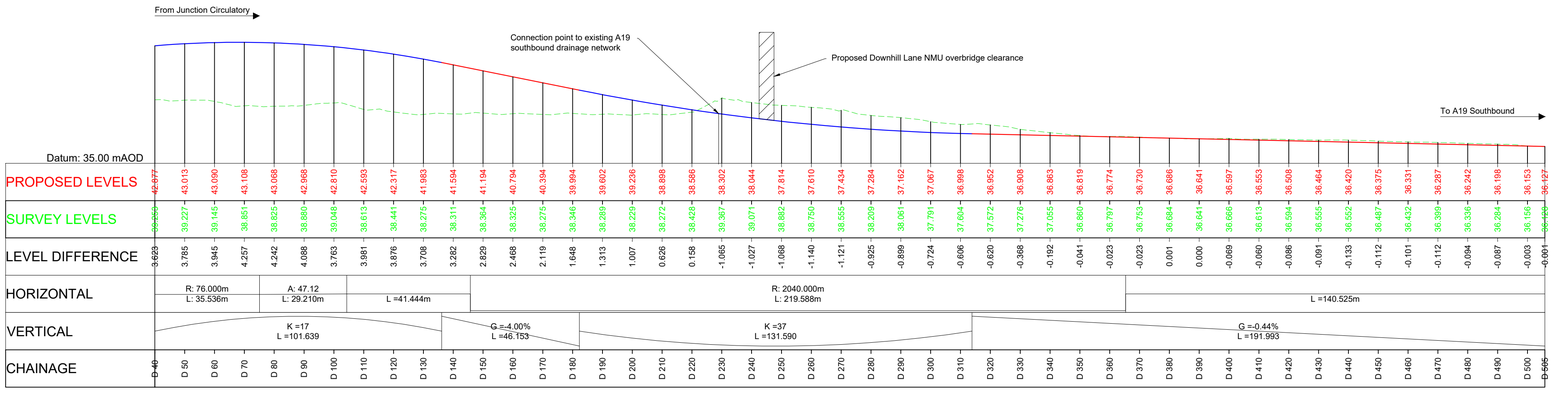

A19 - DOWNHILL LANE - SOUTHBOUND MERGE - LONGITUDINAL SECTION
SCALE: H 1:1000,V 1:200. DATUM: 35.000

NOTES

1. All dimensions are in metres unless stated otherwise.
2. This drawing should be read in conjunction with the Highways General Arrangement engineering drawings TR010024/APP/2.6.1(A) & 2.6.1(B), Structure engineering drawings TR010024/APP/2.6.3(A) to 2.6.3(C) and Drainage engineering drawing TR010024/APP/2.6.4(A).
3. All structure positions are indicative.
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KEY

Proposed Vertical Alignment Gradient

Proposed Vertical Alignment Curve

Existing Ground Surface

0 5 10 15 20 m
SCALE 1 : 200

0 50 100 m
SCALE 1 : 1000

Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd
0	18/12/2018	APPLICATION ISSUE	CR	AP	AP	GW

Client: highways england

Designer: JACOBS
1 City Walk, Leeds, LS11 9DX
Tel:+44(0)113 242 6771 Fax:+44(0)113 389 1389
www.jacobs.com

Contractor: COSTAIN

Project: A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing title: ENGINEERING DRAWINGS
HIGHWAYS LONGITUDINAL SECTIONS
REGULATION 5(2)(o) & 6(2)
SHEET 1 OF 3

Drawing status: DCO SUBMISSION

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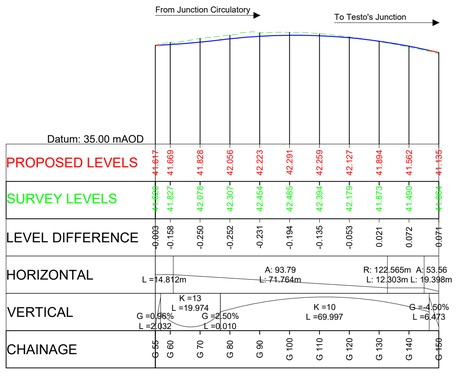
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.2 (A)

Rev: 0



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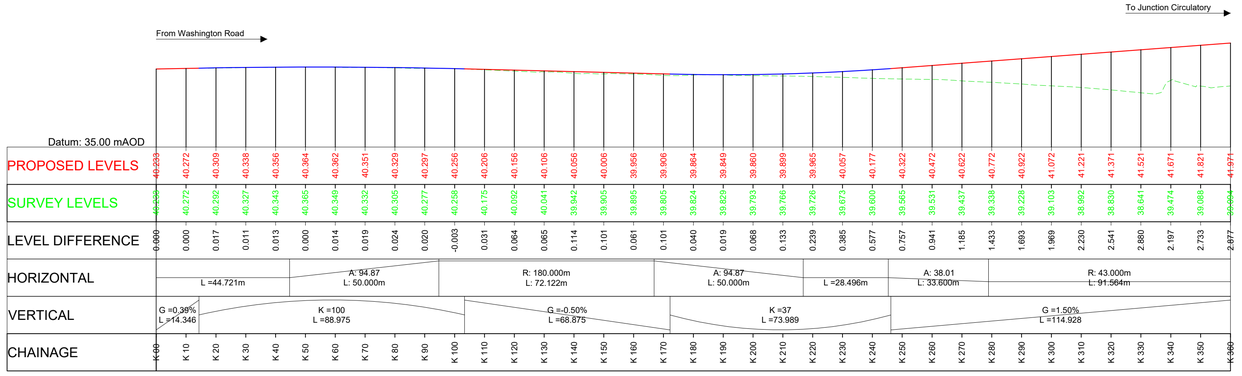

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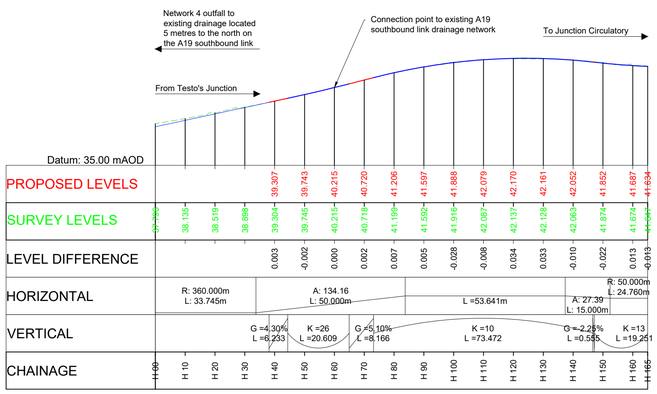

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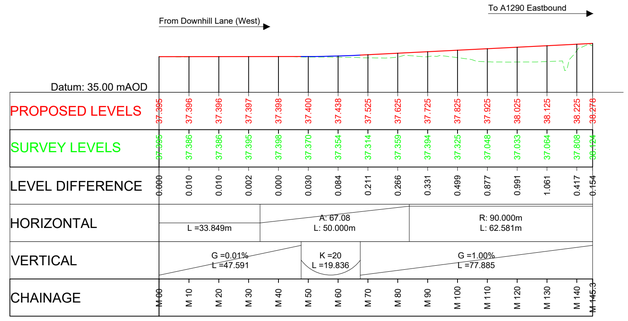

A19 - DOWNHILL LANE - DOWNHILL LANE WEST LONGITUDINAL SECTION
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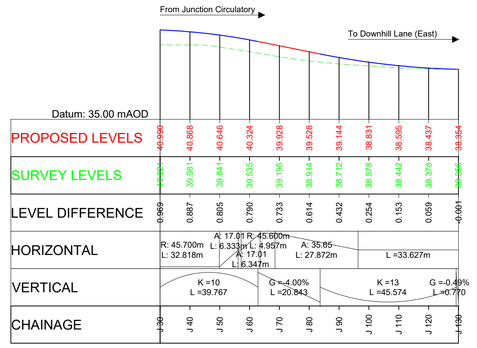

A19 - DOWNHILL LANE - DOWNHILL LANE EAST LONGITUDINAL SECTION
SCALE: H 1:1000,V 1:200. DATUM: 35.000

NOTES

1. All dimensions are in metres unless stated otherwise.
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KEY

- Proposed Vertical Alignment Gradient
- Proposed Vertical Alignment Curve
- Existing Ground Surface

0 5 10 15 20 m
SCALE 1 : 200

0 50 100 m
SCALE 1 : 1000

Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd
0	18/12/2018	APPLICATION ISSUE	CR	AP	AP	GW

Client: highways england

Designer: JACOBS
1 City Walk, Leeds, LS11 9DX
Tel:+44(0)113 242 6771 Fax:+44(0)113 389 1389
www.jacobs.com

Contractor: COSTAIN

Project: A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing title: ENGINEERING DRAWINGS
HIGHWAYS LONGITUDINAL SECTIONS
REGULATION 5(2)(o) & 6(2)
SHEET 2 OF 3

Drawing status: DCO SUBMISSION

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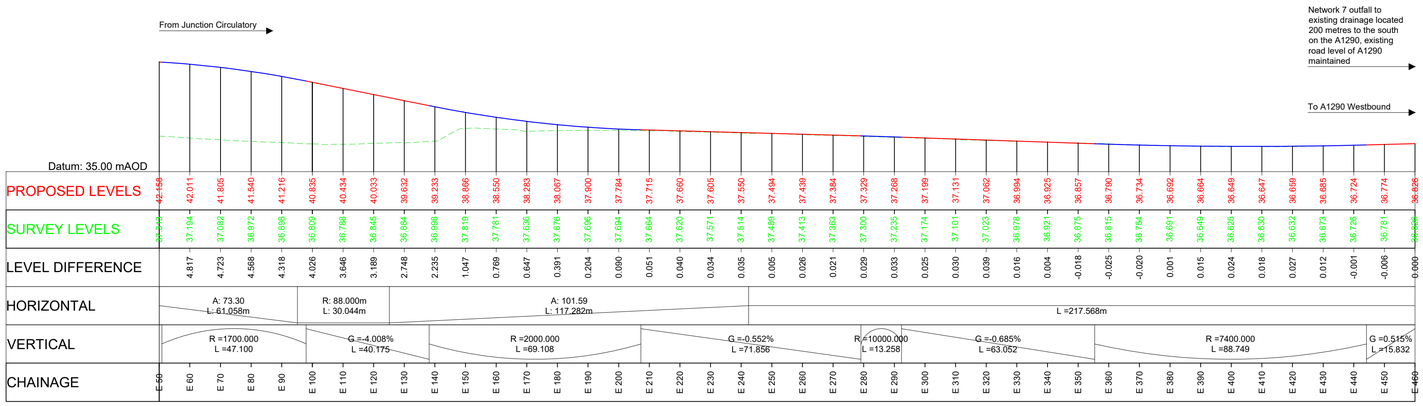
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.2 (B)
Rev: 0



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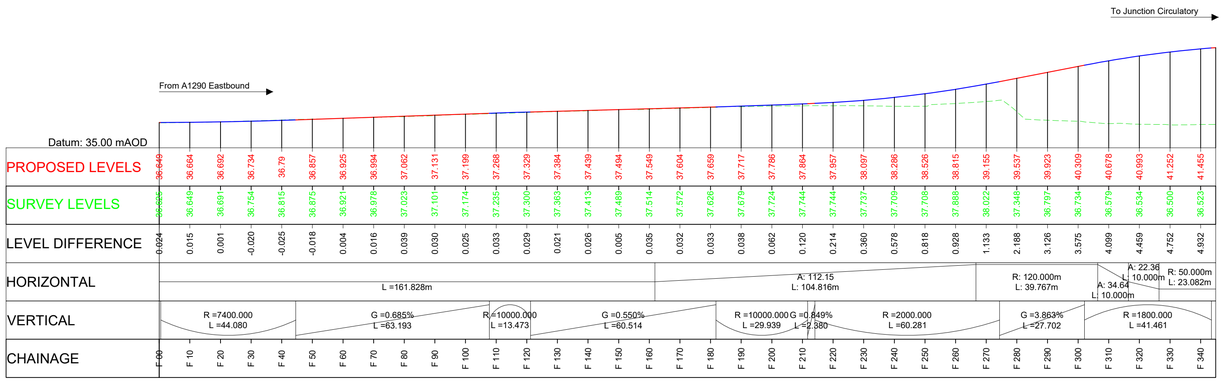

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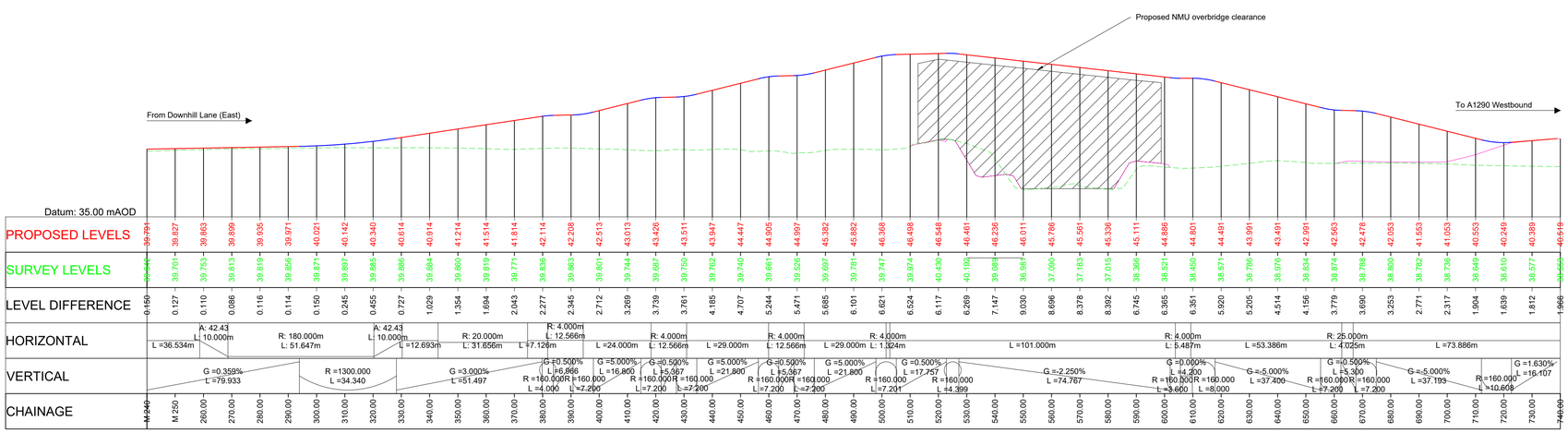


A19 - DOWNHILL LANE - NMU OVERBRIDGE - LONGITUDINAL SECTION
SCALE: H 1:1000,V 1:200. DATUM: 35.000

NOTES

1. All dimensions are in metres unless stated otherwise.
2. This drawing should be read in conjunction with the Highways General Arrangement engineering drawings TR010024/APP/2.6.1(A) & 2.6.1(B), Structure engineering drawings TR010024/APP/2.6.3(A) to 2.6.3(C) and Drainage engineering drawing TR010024/APP/2.6.4(A).
3. All structure positions are indicative.
4. Plans to be read in conjunction with all of the plans and documents included in the Development Consent Order application. The proposed works will be subject to detailed design development. The changes will be limited to being within the limits of land to be acquired or used permanently and any other constraint included in the Development Consent Order (Document Reference TR010024/APP/3.1).

KEY

- Proposed Vertical Alignment Gradient
- Proposed Vertical Alignment Curve
- Existing Ground Surface

0 5 10 15 20 m
SCALE 1 : 200

0 50 100 m
SCALE 1 : 1000

Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd
0	18/12/2018	APPLICATION ISSUE	CR	AP	AP	GW

Client: highways england

Designer: JACOBS
1 City Walk, Leeds, LS11 9DX
Tel:+44(0)113 242 6771 Fax:+44(0)113 389 1389
www.jacobs.com

Contractor: COSTAIN

Project: A19 DOWNHILL LANE JUNCTION IMPROVEMENT

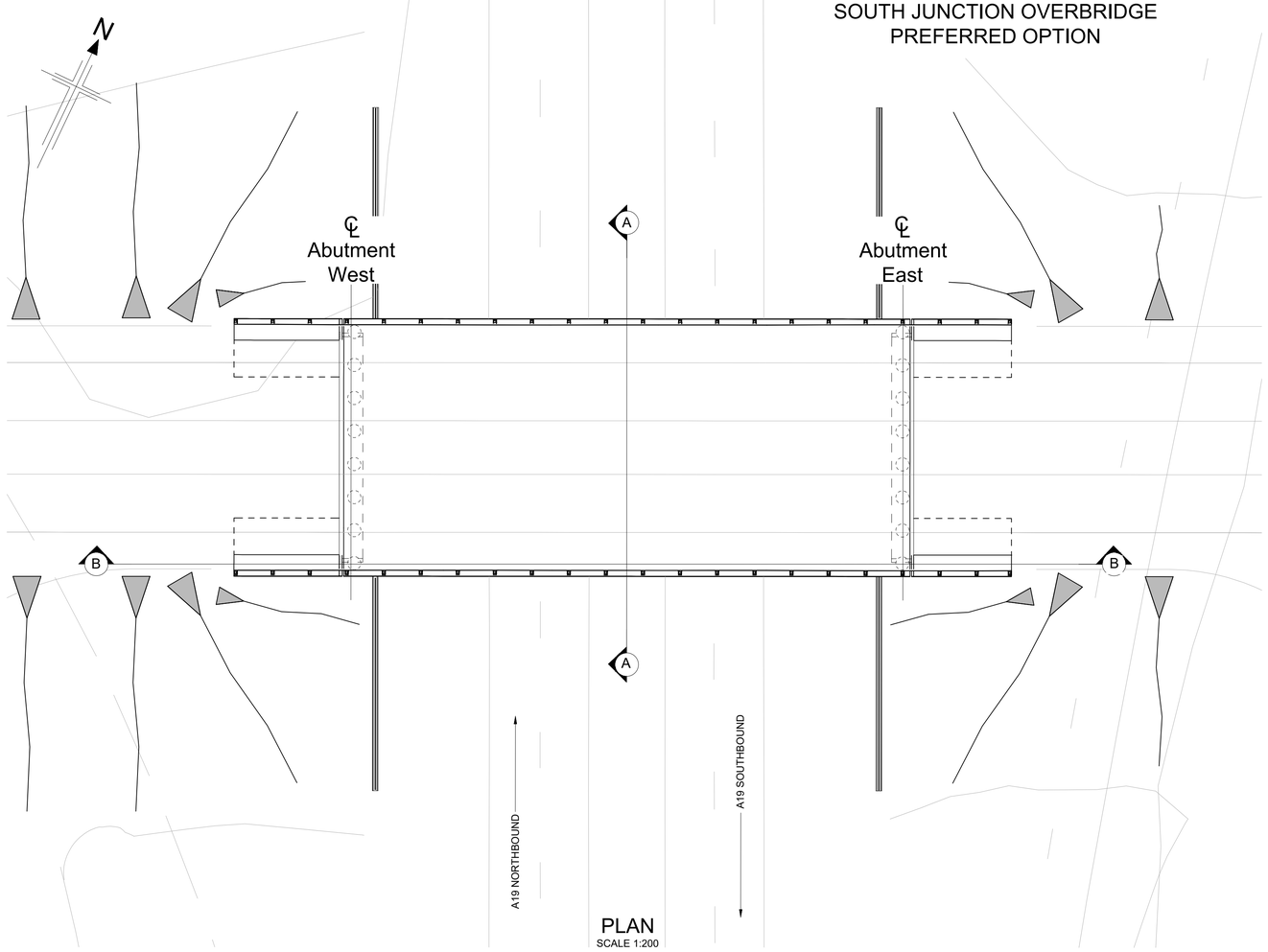
Drawing title: ENGINEERING DRAWINGS
HIGHWAYS LONGITUDINAL SECTIONS
REGULATION 5(2)(o) & 6(2)
SHEET 3 OF 3

Drawing status: DCO SUBMISSION

Scale	1:1000 @ A1	DO NOT SCALE
Jacobs No.	B0140301	
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.2 (C)
Rev: 0

SOUTH JUNCTION OVERBRIDGE
PREFERRED OPTION



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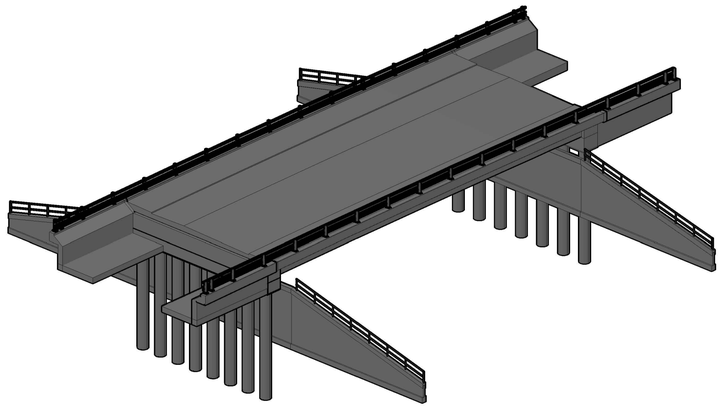

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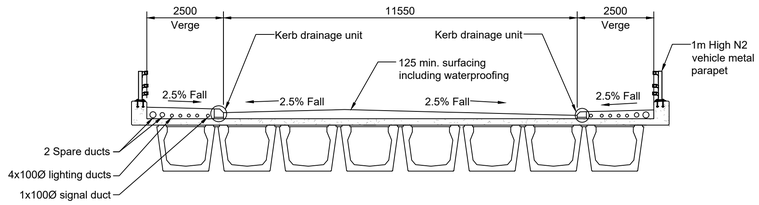
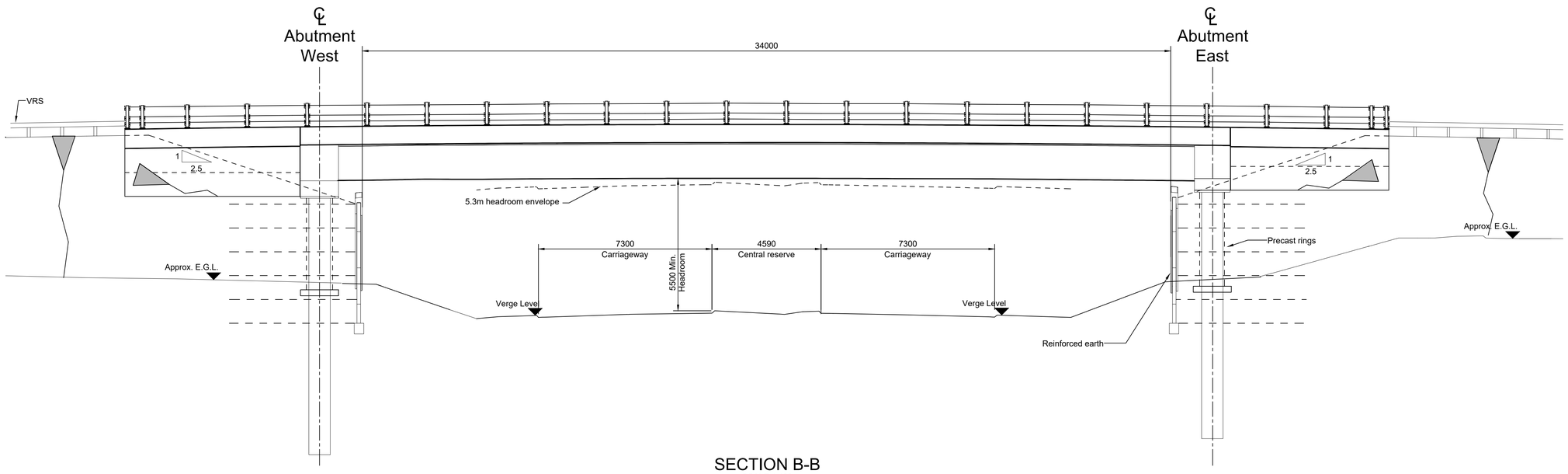
SCALE 1:250



SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100

NOTES

1. All dimensions are in millimetres unless noted otherwise.
2. All levels and chainages are in metres unless noted otherwise.
3. All structure positions are indicative.
4. Structures Engineering Drawings & Sections, Regulations 5(2)(o) and 6(2) should be read in conjunction with Highways General Arrangement drawings (Document Reference TR010020/APP/2.6.1(A)&(B)), Highways Longitudinal Section drawings (Document Reference TR010020/APP/2.6.2(A) to (C)) and also with all other plans and documents included in the Development Consent Order application (Document Reference TR010024/APP/3.1).
5. This drawing shows the preferred option at this stage. The proposed works will be subject to detailed design development. Any changes will be limited to being within the limits of land to be acquired or used permanently and any other constraint included in the Development Consent Order (Document Reference TR010024/APP/3.1).

0 1 2 3 4 5 6 7 8 9 10 m
SCALE 1 : 100

0 5 10 15 20 m
SCALE 1 : 200

0 5 10 15 20 25 m
SCALE 1 : 250

Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd
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Contractor: COSTAIN

Project
A19 DOWNHILL LANE JUNCTION IMPROVEMENT

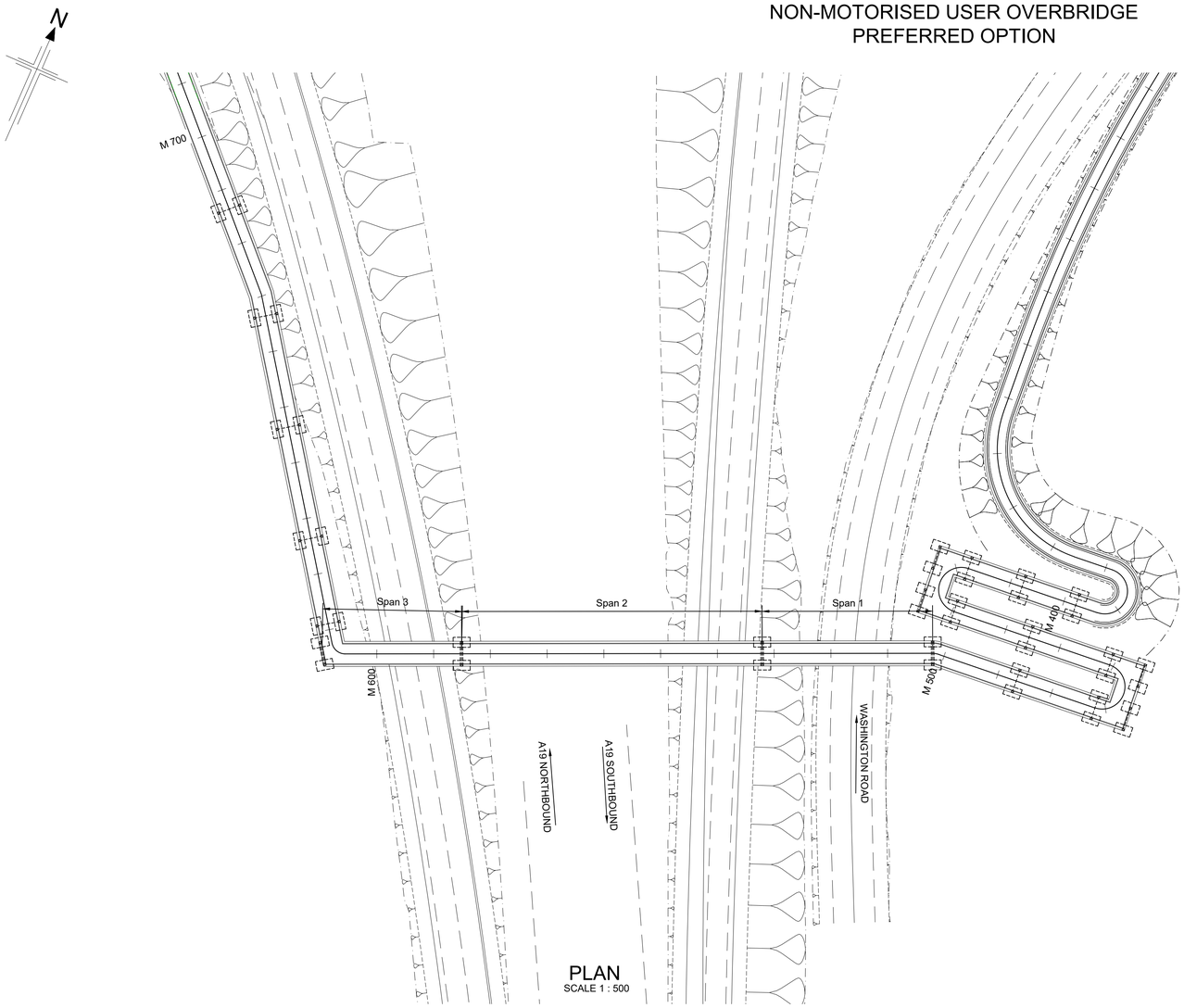
Drawing title
ENGINEERING DRAWINGS
STRUCTURES DRAWINGS & SECTIONS
SOUTH JUNCTION OVERBRIDGE
REGULATION 5(2)(o) & 6(2)

Drawing status: DCO SUBMISSION

Scale	See Drawing	DO NOT SCALE
Jacobs No.	B0140301	
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.3 (A)
Rev: 0

NON-MOTORISED USER OVERBRIDGE
PREFERRED OPTION



PLAN
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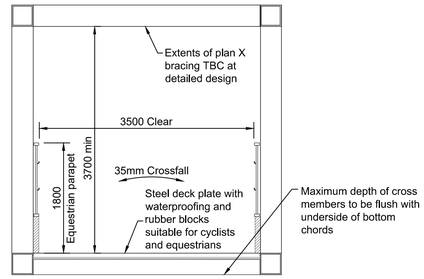

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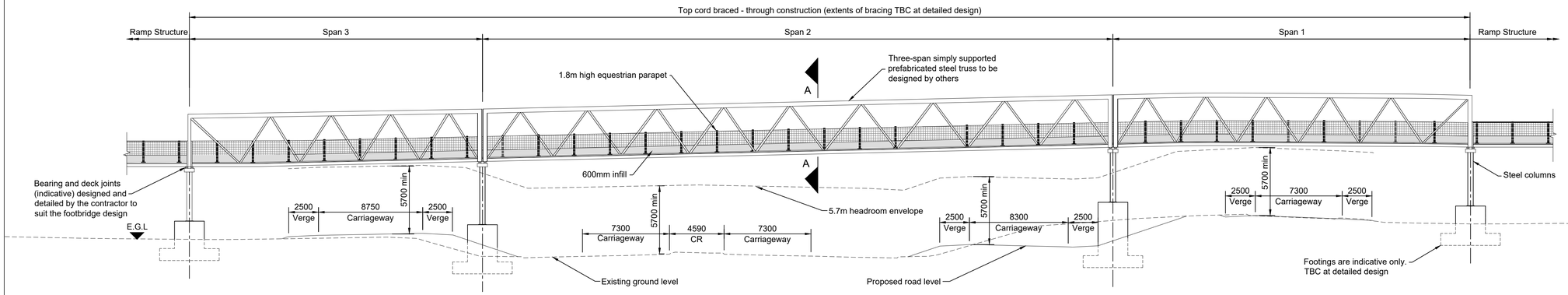

ELEVATION
SCALE 1 : 200

NOTES

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2. All levels and chainages are in metres unless noted otherwise.
3. All structure positions are indicative.
4. Structures Engineering Drawings & Sections, Regulations 5(2)(o) and 6(2) should be read in conjunction with Highways General Arrangement drawings (Document Reference TR010020/APP/2.6.1(A)&(B)), Highways Longitudinal Section drawings (Document Reference TR010020/APP/2.6.2(A) to (C)) and also with all other plans and documents included in the Development Consent Order application (Document Reference TR010024/APP/3.1).
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0 1 2 3 4 5 m
SCALE 1 : 50

0 5 10 15 20 m
SCALE 1 : 200

0 10 20 30 40 50 m
SCALE 1 : 500

Rev	Revision date	Purpose of Revision	Drawn	Check'd	Rev'd	Appr'd
0	18/12/2018	APPLICATION ISSUE	CR	AP	AP	GW

Client: highways england

Designer: JACOBS
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Contractor: COSTAIN

Project
A19 DOWNHILL LANE JUNCTION IMPROVEMENT

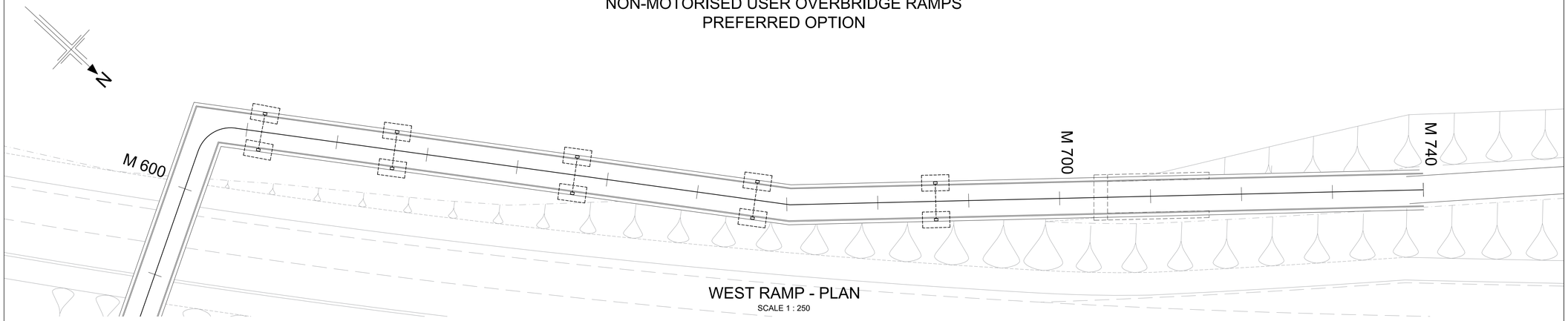
Drawing title
ENGINEERING DRAWINGS
STRUCTURES DRAWINGS & SECTIONS
NON-MOTORISED USER OVERBRIDGE
REGULATION 5(2)(o) & 6(2)

Drawing status: DCO SUBMISSION

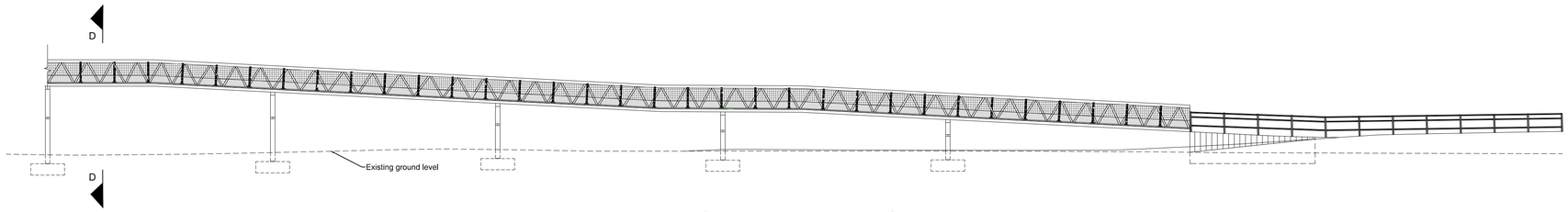
Scale	See Drawing	DO NOT SCALE
Jacobs No.	B0140301	
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.3 (B)
Rev: 0

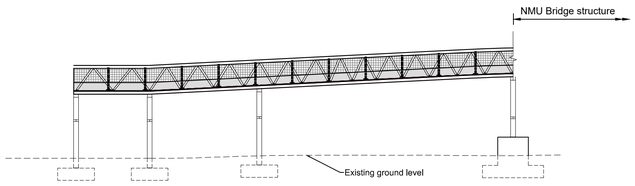
NON-MOTORISED USER OVERBRIDGE RAMPS
PREFERRED OPTION



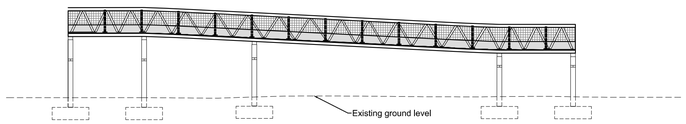
WEST RAMP - PLAN
SCALE 1 : 250



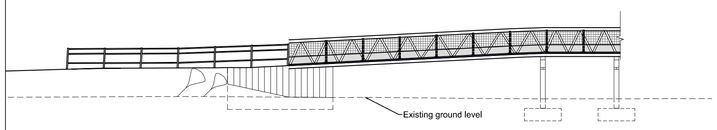
WEST RAMP - ELEVATION
SCALE 1 : 250



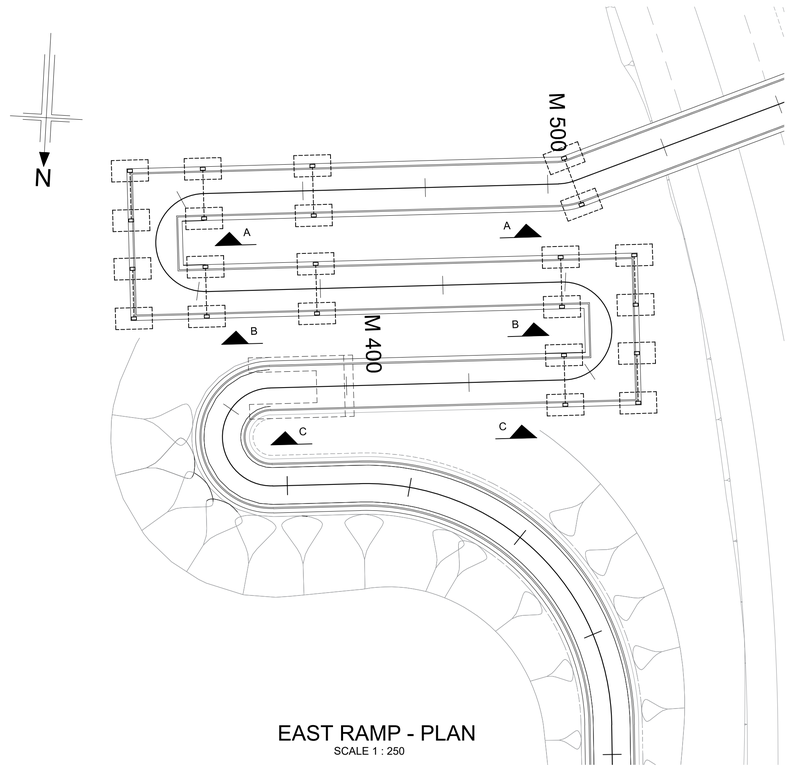
EAST RAMP - SECTION A-A
SCALE 1 : 250



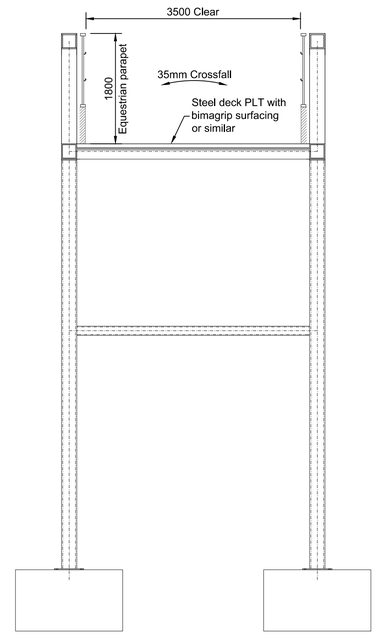
EAST RAMP - SECTION B-B
SCALE 1 : 250



EAST RAMP - SECTION C-C
SCALE 1 : 250



EAST RAMP - PLAN
SCALE 1 : 250



WEST RAMP - SECTION D-D
SCALE 1 : 50

NOTES

1. All dimensions are in millimetres unless noted otherwise.
2. All levels and chainages are in metres unless noted otherwise.
3. All structure positions are indicative.
4. Structures Engineering Drawings & Sections, Regulations 5(2)(o) and 6(2) should be read in conjunction with Highways General Arrangement drawings (Document Reference TR010020/APP/2.6.1(A)&(B)), Highways Longitudinal Section drawings (Document Reference TR010020/APP/2.6.2(A) to (C)) and also with all other plans and documents included in the Development Consent Order application (Document Reference TR010024/APP/3.1).
5. This drawing shows the preferred option at this stage. The proposed works will be subject to detailed design development. Any changes will be limited to being within the limits of land to be acquired or used permanently and any other constraint included in the Development Consent Order (Document Reference TR010024/APP/3.1).

0 1 2 3 4 5 m
SCALE 1 : 50

0 5 10 15 20 25 m
SCALE 1 : 250

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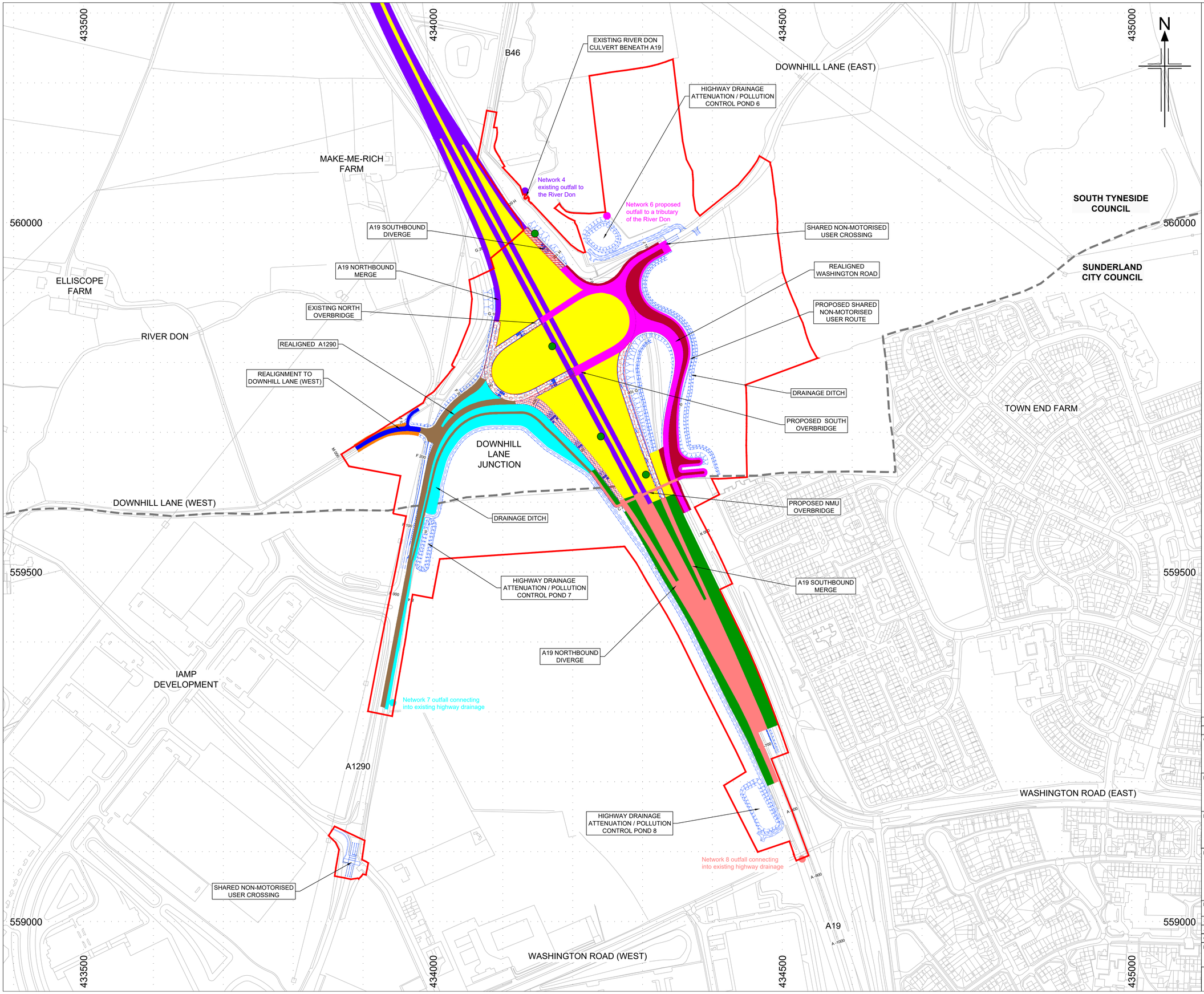
Project: A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing title: ENGINEERING DRAWINGS
STRUCTURES DRAWINGS & SECTIONS
NON-MOTORISED USER RAMPS
REGULATION 5(2)(o) & 6(2)

Drawing status: DCO SUBMISSION

Scale	See Drawing	DO NOT SCALE
Jacobs No.	B0140301	
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.3 (C) Rev 0



NOTES

1. All dimensions are in metres unless stated otherwise.
2. The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Scheme.
3. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order (Document Reference TR010024/APP/3.1).
4. Pond 6 will attenuate flows from Catchment 6 before discharging into the River Don.
5. Pond 7 will attenuate flows from Catchment 7 before discharging into the existing network.
6. Pond 8 will attenuate flows from Catchment 8 before discharging into the existing network.
7. The proposed ponds will be designed with an isolation system in order that contaminants may be contained in the event of a pollution incident.

KEY

- The Design (shown for illustrative purposes)
- Limits of land to be acquired permanently or temporarily
- Local Authority Boundary
- Network 4 Permeable Catchments
- Network 4 Impermeable Catchments
- Network 5 Permeable Catchments
- Network 5 Impermeable Catchments
- Network 6 Permeable Catchments
- Network 6 Impermeable Catchments
- Network 7 Permeable Catchments
- Network 7 Impermeable Catchments
- Network 8 Permeable Catchments
- Network 8 Impermeable Catchments
- Network 4a Impermeable Catchments
- Network 4b Impermeable Catchments
- Network 4c Impermeable Catchments
- Network 4e Impermeable Catchments
- Connection Point to Existing Drainage

0 50 100 150 200 250 m

SCALE 1 : 2500

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Contractor: COSTAIN

Project: A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing title: ENGINEERING DRAWINGS
DRAINAGE GENERAL ARRANGEMENT
REGULATION 5(2)(o)

Drawing status: DCO SUBMISSION

Scale	1:2500 @ A1	DO NOT SCALE
Jacobs No.	B0140301	
Client no.	HE514495	

Drawing number: TR010024/APP/2.6.4

Rev: 0