

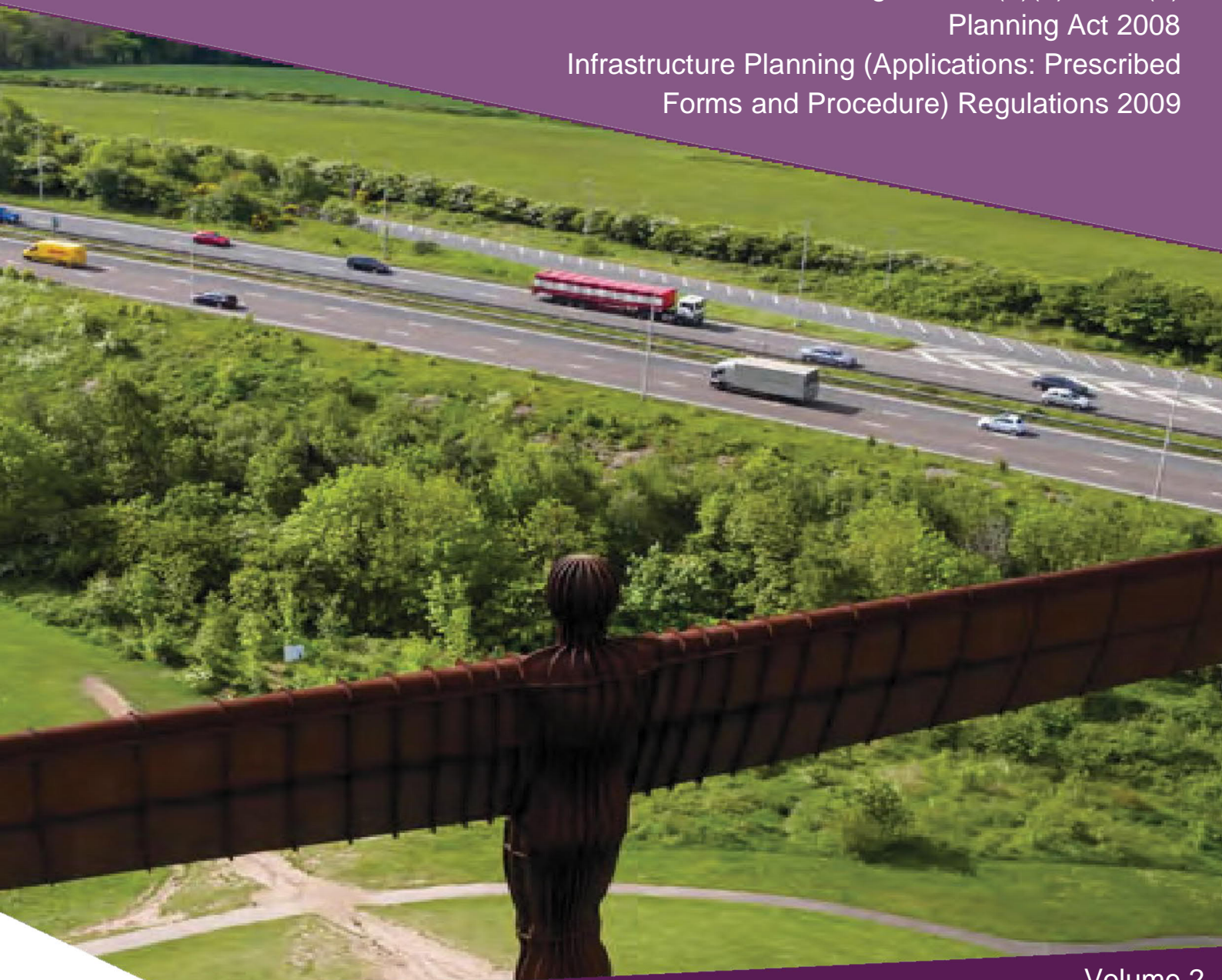
# A1 Birtley to Coal House

**Scheme Number: TR010031**

## 2.5 Engineering Section Drawings

APFP Regulation 5(2)(o) and 6(2)  
Planning Act 2008

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



Infrastructure Planning

Planning Act 2008

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

The A1 Birtley to Coal House  
Development Consent Order 20[xx]

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**ENGINEERING SECTION DRAWINGS**

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<b>Regulation Reference:</b>	APFP Regulation 5(2)(o) and 6(2)
<b>Planning Inspectorate Scheme Reference</b>	TR010031
<b>Application Document Reference</b>	TR010031/APP/2.5
<b>Author:</b>	A1 Birtley to Coal House Project Team, Highways England

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 1	25/02/2020	Examination Deadline 2 update

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## 1 INTRODUCTION

### 1.1 Purpose of this Document

1.1.1 These Engineering Section Drawings (the "Drawings") relate to an application made by Highways England (the "Applicant") to the Planning Inspectorate (the "Inspectorate") under the Planning Act 2008 (the "2008 Act") for a Development Consent Order (DCO). If made, the DCO would grant consent for the Applicant to undertake the A1 Birtley to Coal House (the "Scheme"). A detailed description of the Scheme can be found in **Chapter 2** of the Environmental Statement (ES) (**Application Document Reference: TR010031/APP/6.1**).

1.1.2 The Drawings comprise part of the suite of Application documentation and are included in the Application in compliance with Regulation 5(2)(o) and 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."*

1.1.3 These Drawings are also being submitted under Regulation 5(4) of the 2009 Regulations which states:

*"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 As the Drawings are part of the Application documentation, they should be read alongside and are informed by the other Application documents. In particular, the Drawings should be read alongside Schedule 1 of the draft Development Consent Order (**Application Document Reference: TR010031/APP/3.1**), the General Arrangement Plans (**Application Document Reference: TR010031/APP/2.6**) and the Structures Engineering Drawings and Sections (**Application Document Reference: TR010031/APP/2.7**).

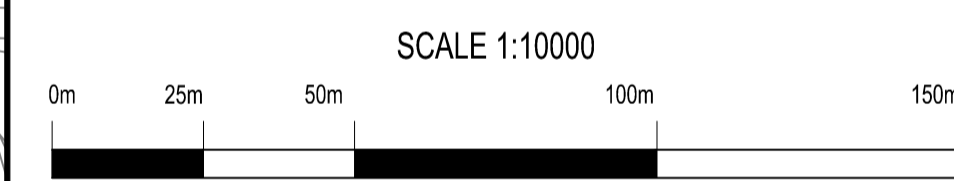
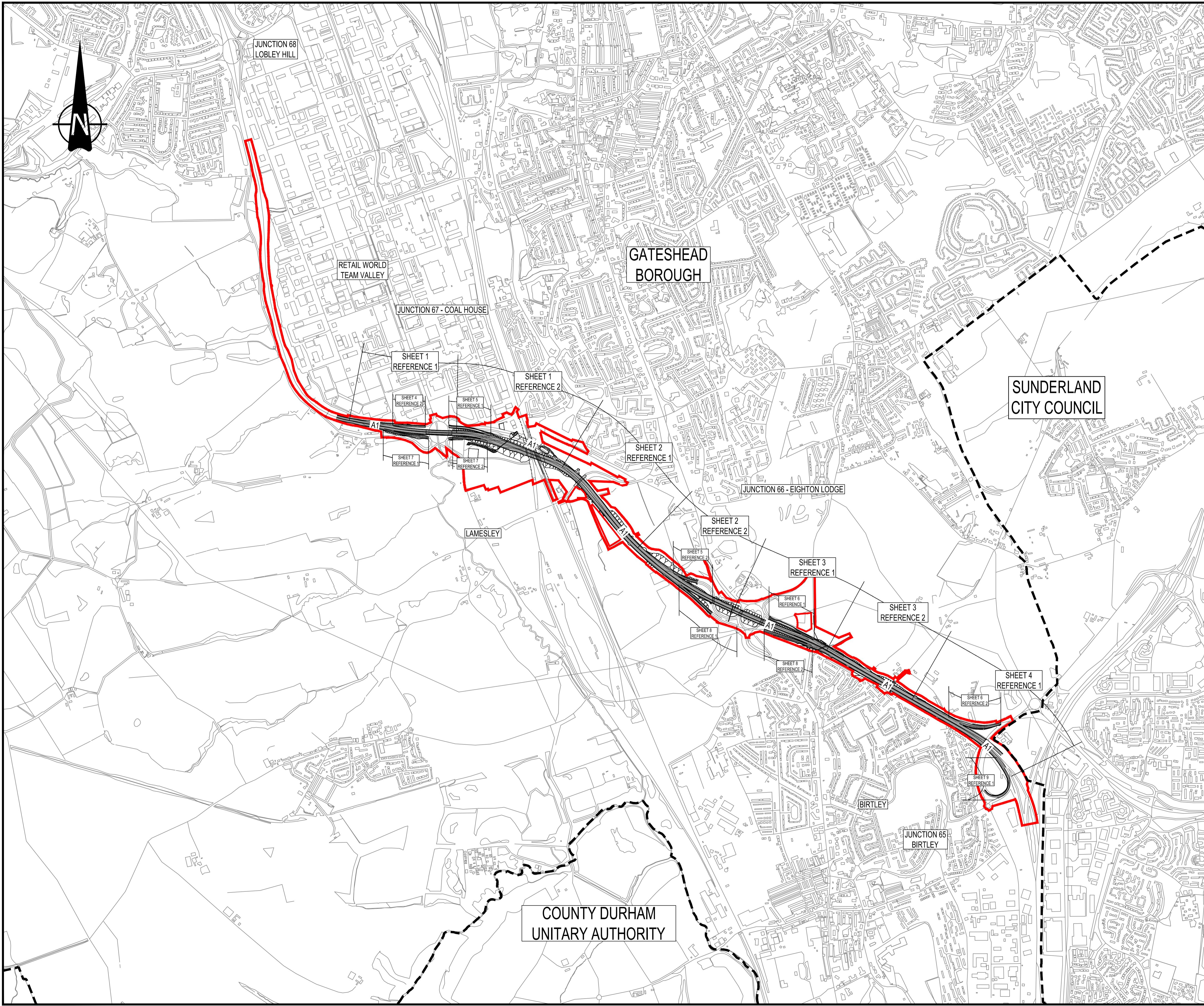
## 2 SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT

Document Title	Document Number	Revision
Engineering Section Drawings – Regulation 5(2)(o), 6(2) & 5(4) – Key Plan	TR010031/APP/2.5(A)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 1 of 9	TR010031/APP/2.5(B)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 2 of 9	TR010031/APP/2.5(C)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 3 of 9	TR010031/APP/2.5(D)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 4 of 9	TR010031/APP/2.5(E)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 5 of 9	TR010031/APP/2.5(F)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 6 of 9	TR010031/APP/2.5(G)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 7 of 9	TR010031/APP/2.5(H)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 8 of 9	TR010031/APP/2.5(I)	Rev 1
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 9 of 9	TR010031/APP/2.5(J)	Rev 1

- NOTES
1. NO DETAILS HAVE BEEN PROVIDED NORTH OF JUNCTION 67 (COAL HOUSE) AS THE CARRIAGEWAY IS NOT BEING AMENDED.
  2. DO NOT SCALE FROM THIS DRAWING.

KEY

-  ORDER LIMITS
-  LOCAL AUTHORITY BOUNDARY
-  THE SCHEME (SHOWN FOR ILLUSTRATIVE PURPOSES ONLY)



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	Status
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR	
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR	

Application Issue A3

PINS Reference Number TR010031/APP/2.5(A)

Client



Project Title A1 BIRTLEY TO COAL HOUSE

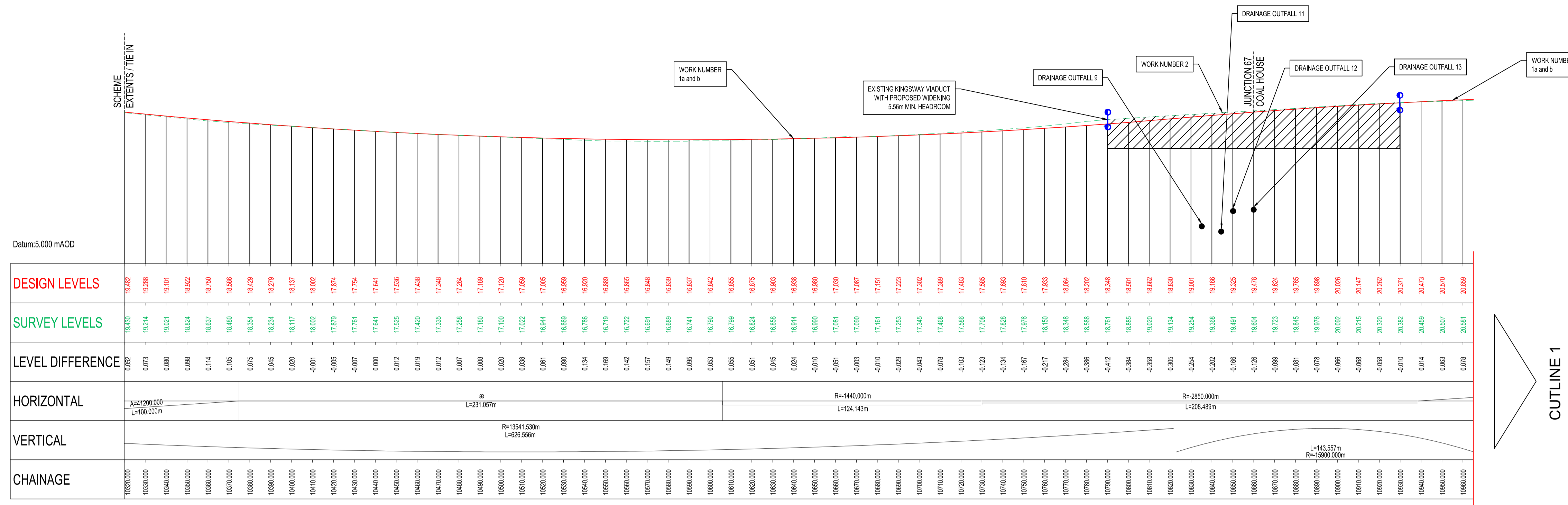
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Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	1
Section	Type	Role	Number
ZZ	DR	ZL	45000
			3

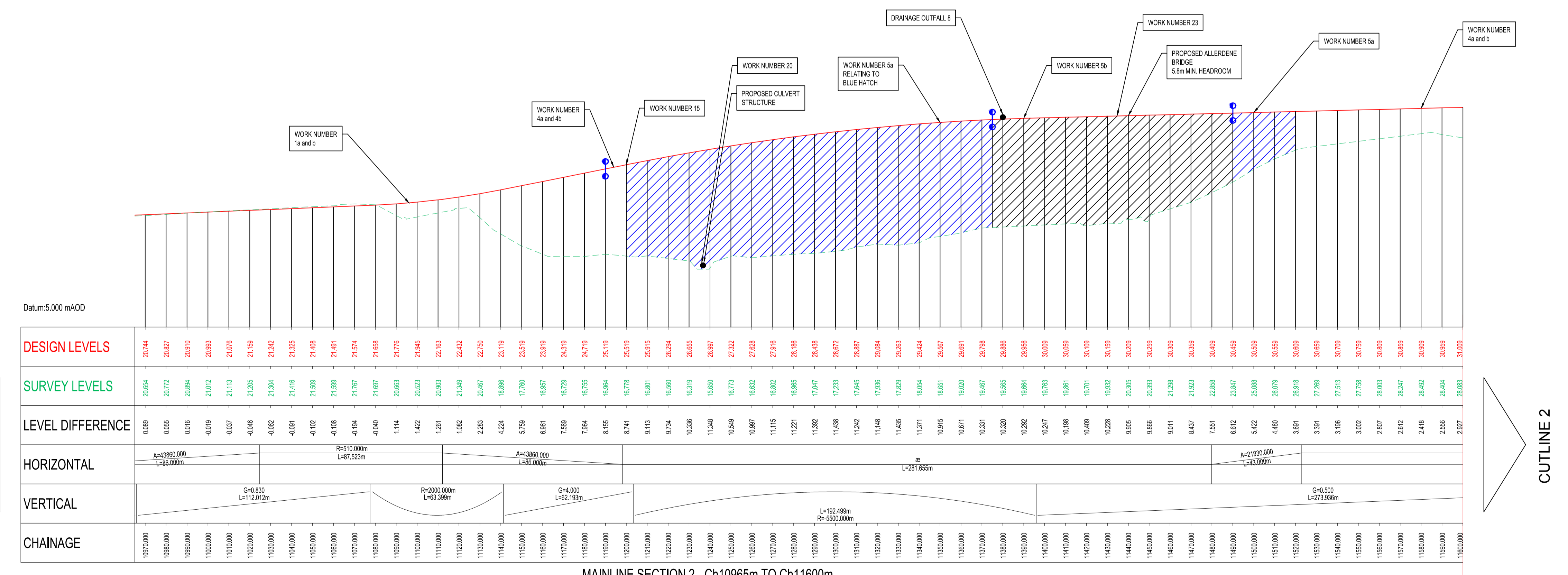
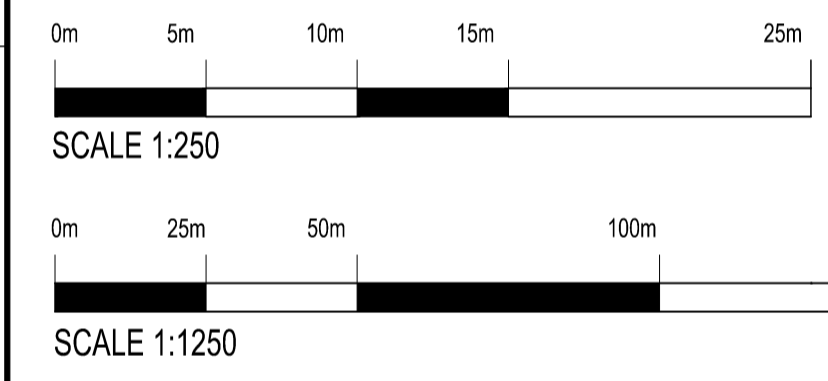
- NOTES
- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  - ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  - ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER APPLICATION (DOCUMENT REFERENCE TR010031/APP/3.1)
  - MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  - DO NOT SCALE FROM THIS DRAWING
  - THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE PITCHES AND THEREFORE ARE NOT SHOWN
  - THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

- KEY
- PROPOSED LEVELS
  - EXISTING LEVELS
  - STRUCTURES
  - WIDENING FOR 7 SPAN VIADUCT OPTION



MAINLINE SECTION 2 - Ch10320m to Ch10965m  
LONGITUDINAL SECTION  
Southbound Design Speed 85kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



MAINLINE SECTION 2 - Ch10965m to Ch11600m  
LONGITUDINAL SECTION  
Southbound Design Speed 85kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Application Issue A3

PINS Reference Number TR010031/APP/2.5(B)



Project Title A1 BIRTLEY TO COAL HOUSE

Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 1 OF 9

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
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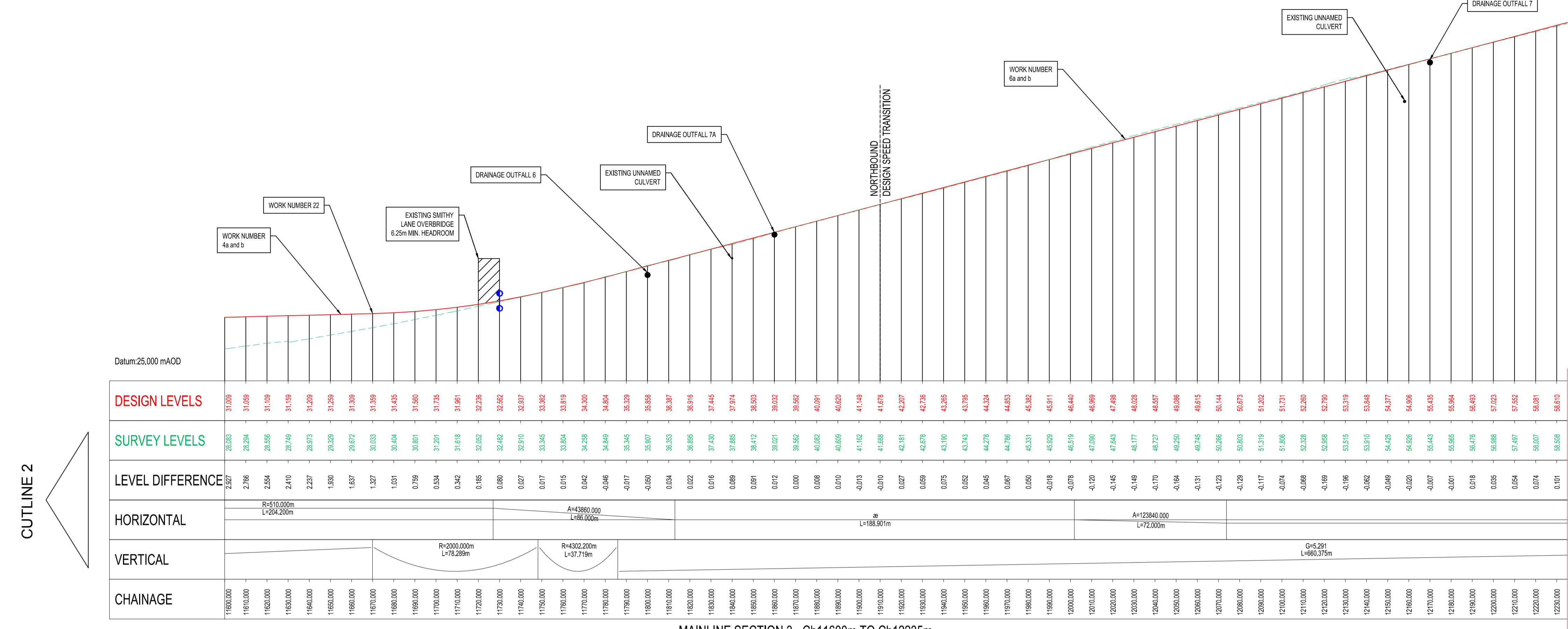
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HE551462	WSP	LSI	1
Section	Type	Role	Number
ZZ	DR	ZL	45001
3			



- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
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  4. MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  5. DO NOT SCALE FROM THIS DRAWING
  6. THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE DITCHES AND THEREFORE ARE NOT SHOWN.
  7. THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

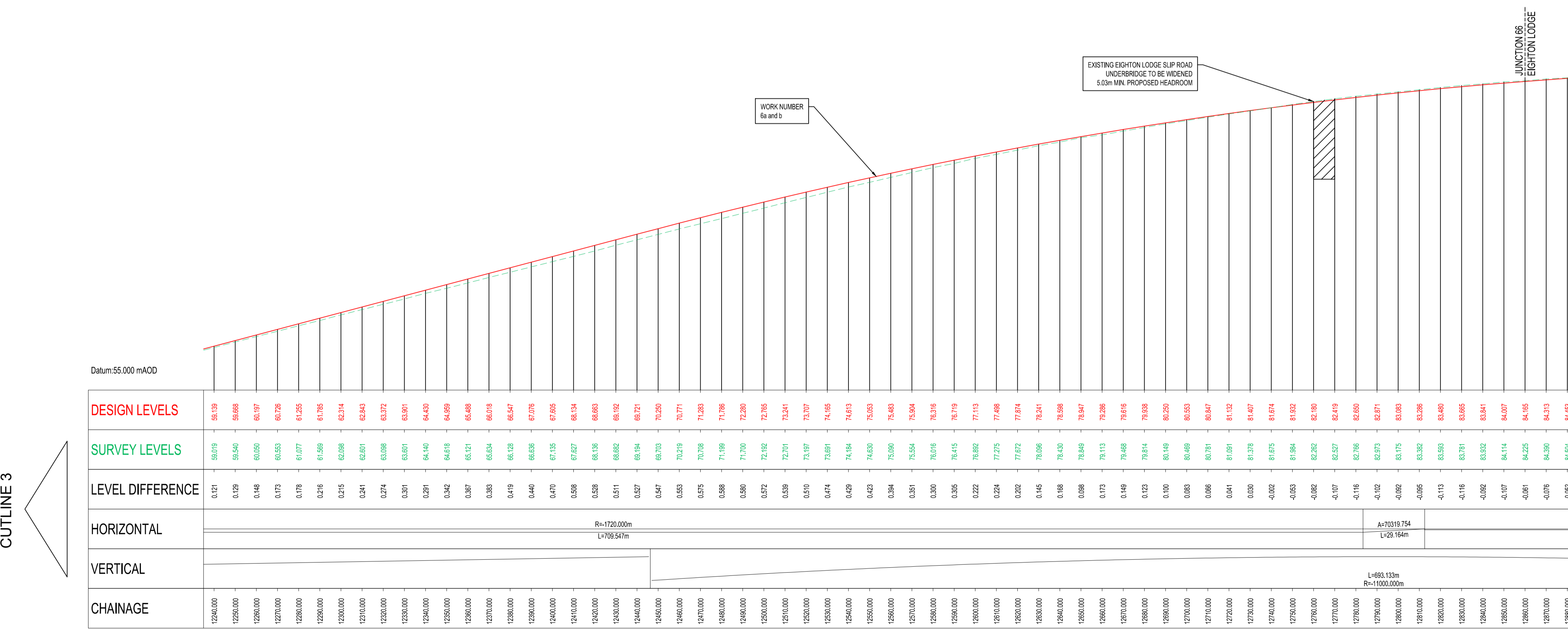
KEY

- PROPOSED LEVELS
- EXISTING LEVELS
- STRUCTURES
- WIDENING FOR 7 SPAN VIADUCT OPTION



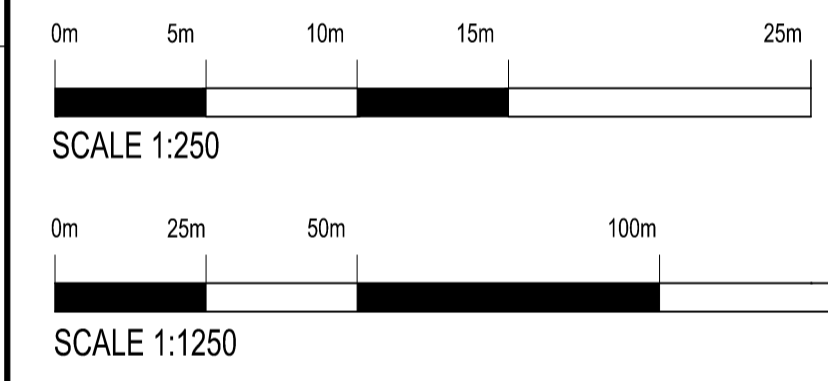
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LONGITUDINAL SECTION  
Southbound Design Speed 85kph - 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



MAINLINE SECTION 3 - Ch12235m TO Ch12895m  
LONGITUDINAL SECTION  
Southbound Design Speed 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Application Issue A3

PINS Reference Number TR010031/APP/2.5(C)



Project Title A1 BIRTLEY TO COAL HOUSE

Drawing Title ENGINEERING SECTIONS DRAWINGS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 2 OF 9

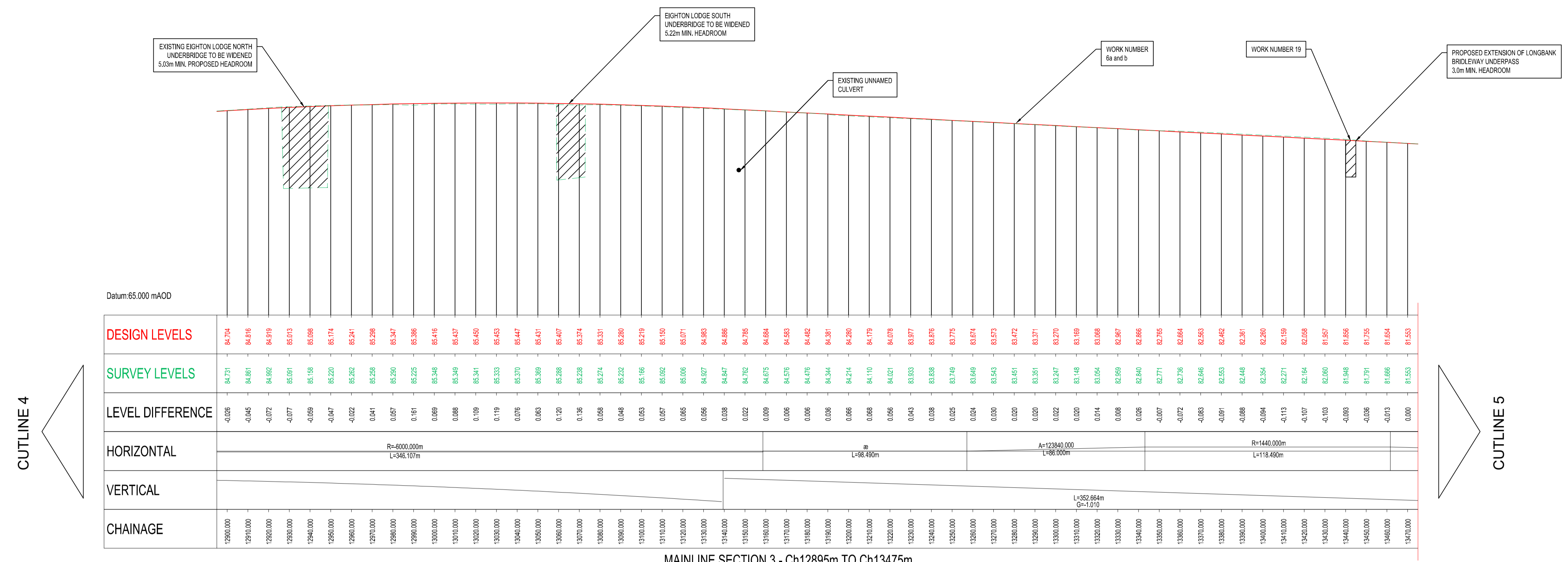
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As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	1
Drawing Section	Type	Role	Number
ZZ	DR	ZL	45002
			3

- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
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  4. MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  5. DO NOT SCALE FROM THIS DRAWING
  6. THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE DITCHES AND THEREFORE ARE NOT SHOWN.
  7. THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

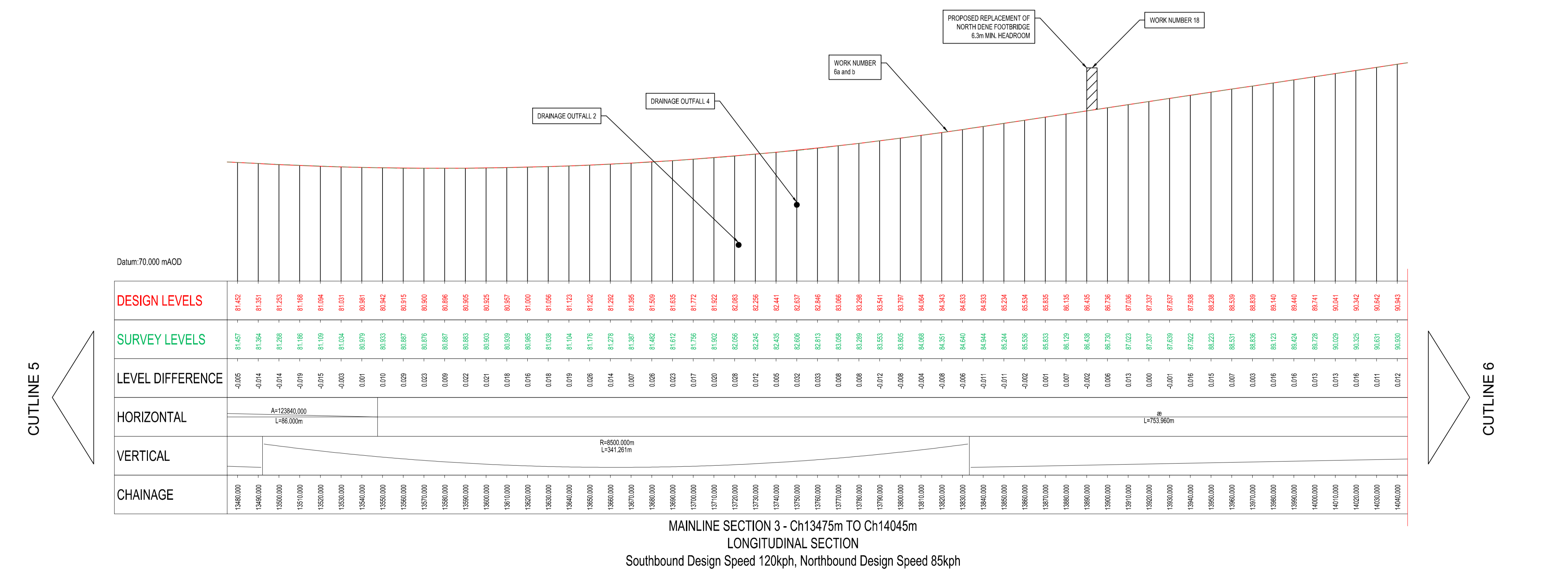
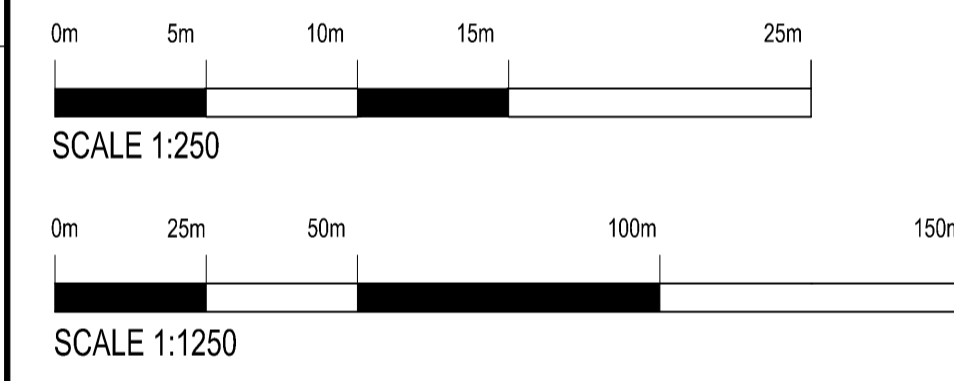
KEY

- PROPOSED LEVELS
- EXISTING LEVELS
- STRUCTURES
- WIDENING FOR 7 SPAN VIADUCT OPTION



MAINLINE SECTION 3 - Ch12895m TO Ch13475m  
LONGITUDINAL SECTION  
Southbound Design Speed 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



MAINLINE SECTION 3 - Ch13475m TO Ch14045m  
LONGITUDINAL SECTION  
Southbound Design Speed 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	27/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Substability	Application Issue	Status	A3
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PINS Reference Number  
**TR010031/APP/2.5(D)**

Client  
**highways england**

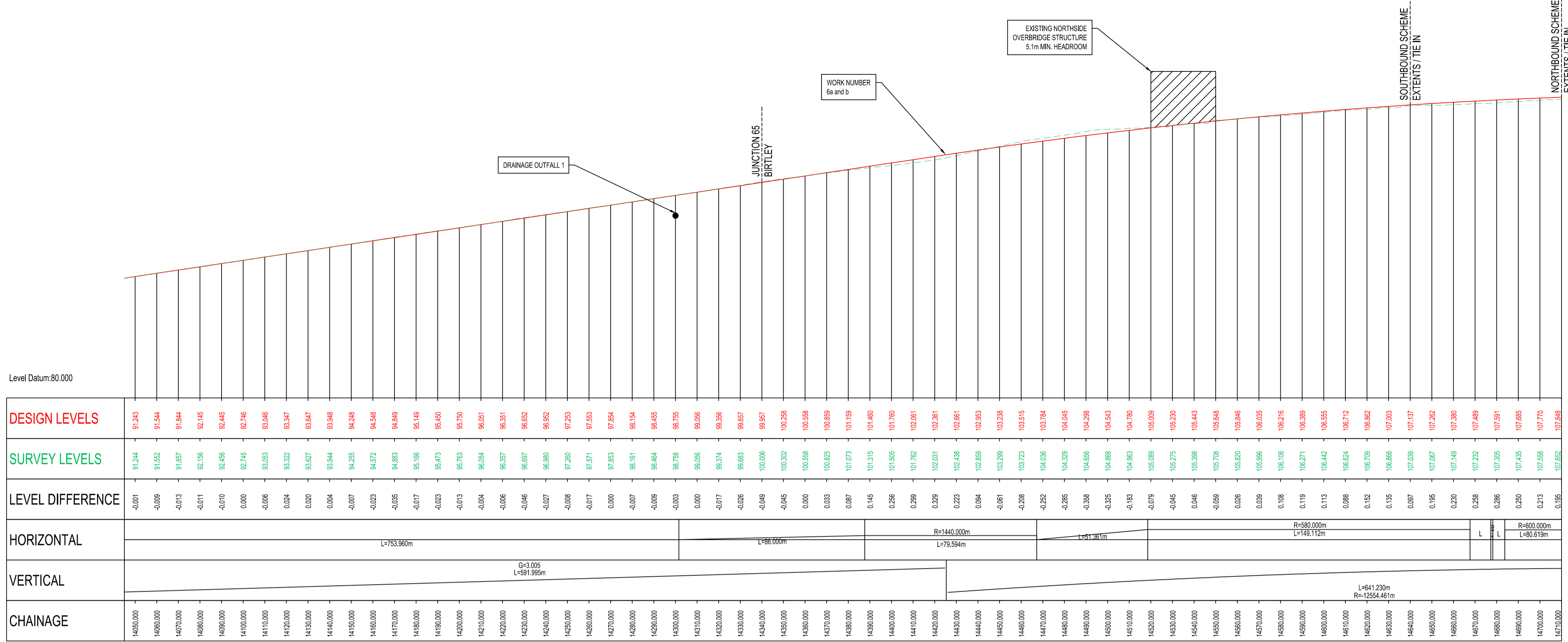
Project Title  
**A1 BIRTLEY TO COAL HOUSE**

Drawing Title  
**ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 3 OF 9**

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
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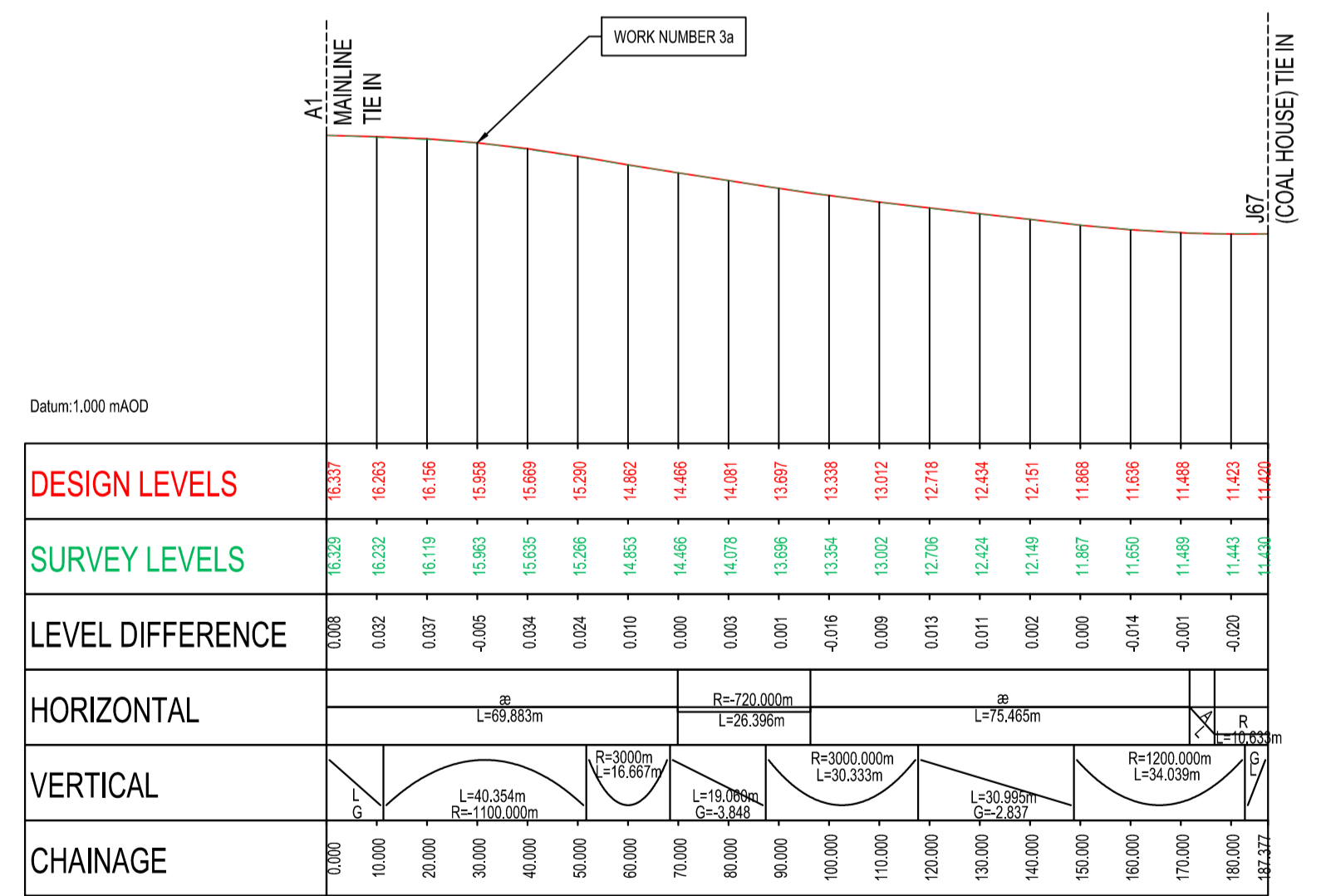
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Section	Type	Role	Number
ZZ	DR	ZL	45003
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CUTLINE 6



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LONGITUDINAL SECTION  
Southbound Design Speed 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



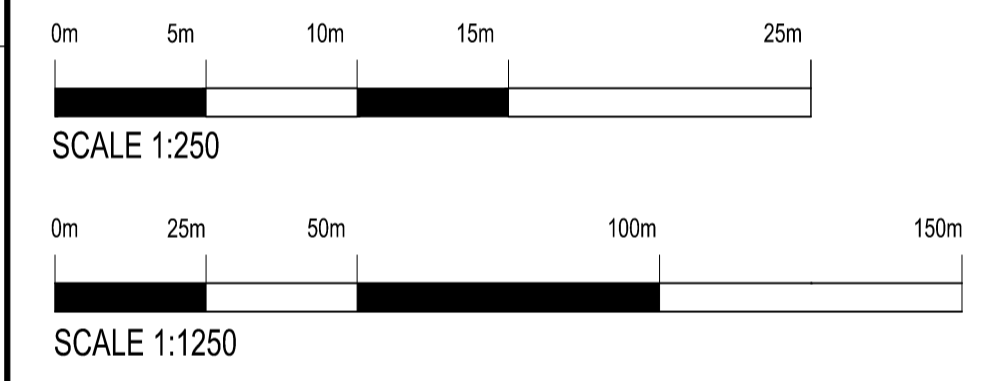
SOUTHBOUND J67 (COAL HOUSE) OFF SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2

- NOTES
- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  - ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  - ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER APPLICATION (DOCUMENT REFERENCE TR010031/APP/3.1)
  - MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  - DO NOT SCALE FROM THIS DRAWING
  - THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE DITCHES AND THEREFORE ARE NOT SHOWN
  - THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE, SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

KEY

- PROPOSED LEVELS
- EXISTING LEVELS
- STRUCTURES
- WIDENING FOR 7 SPAN VIADUCT OPTION



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Application Issue A3

PINS Reference Number  
TR010031/APP/2.5(E)



Project Title  
A1 BIRTLEY TO COAL HOUSE

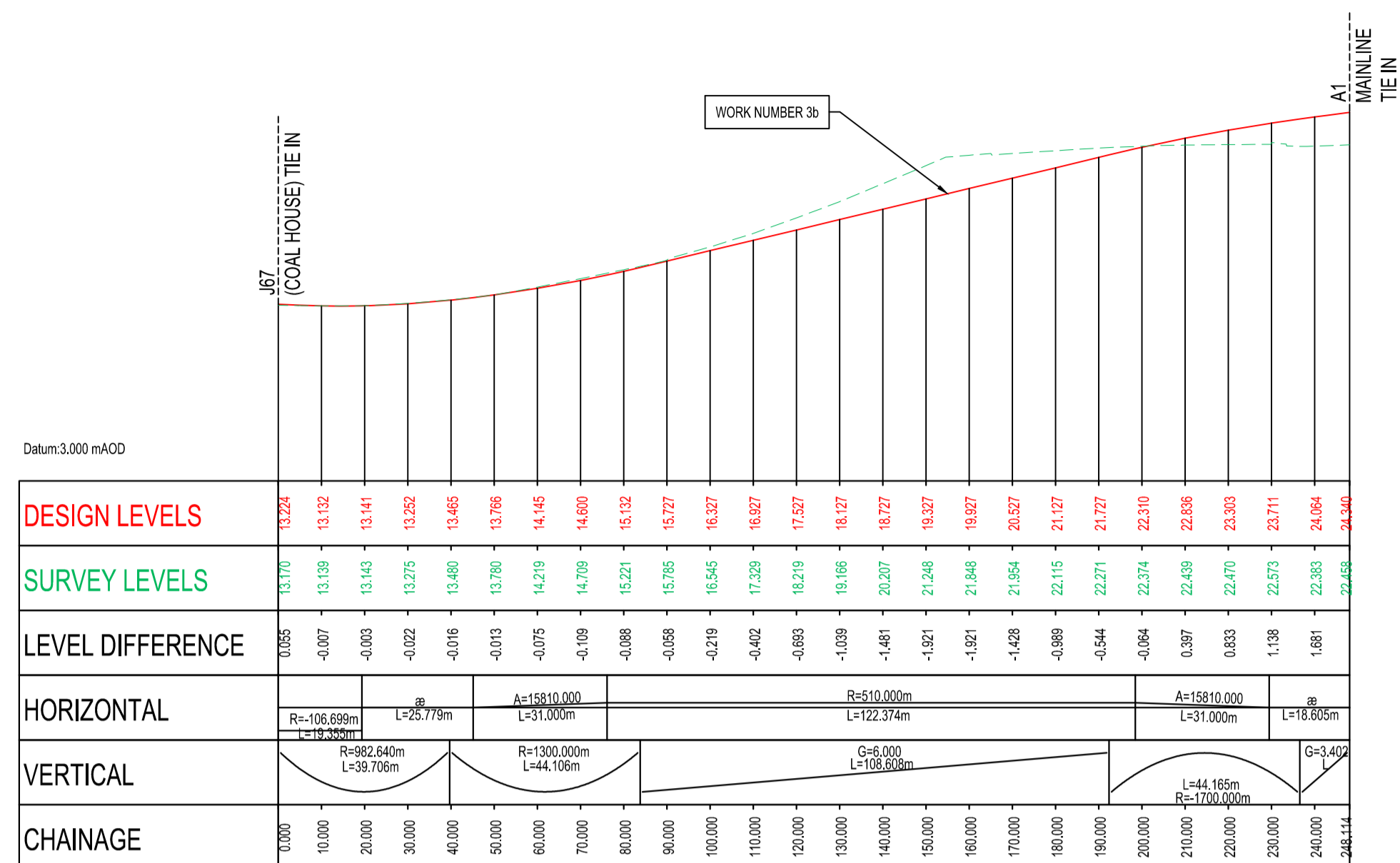
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ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 4 OF 9

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	1
Section	Type	Role	Number
ZZ	DR	ZL	45004
			3

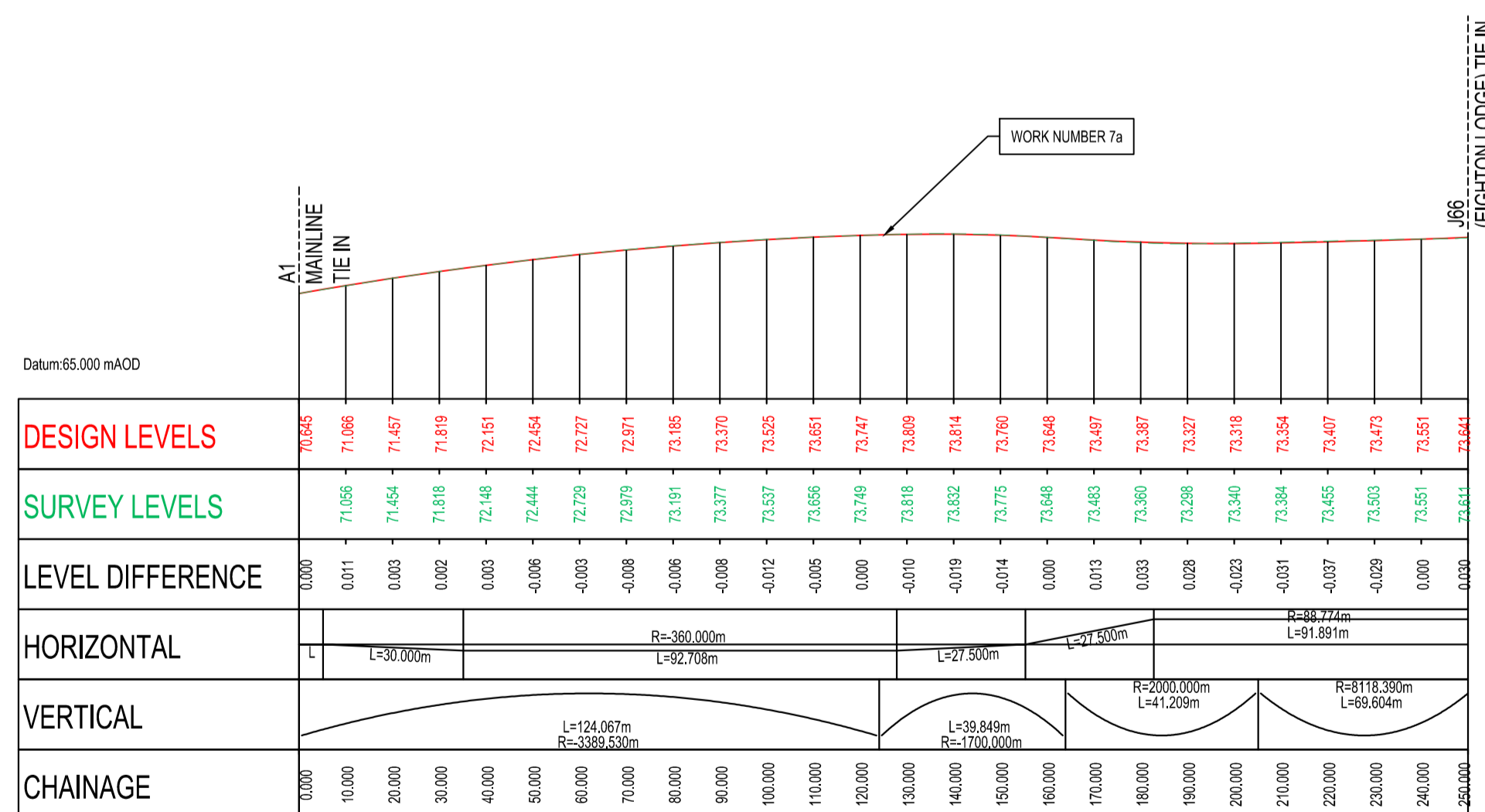
- NOTES
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  7. THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

- KEY
- PROPOSED LEVELS
  - EXISTING LEVELS
  - STRUCTURES
  - WIDENING FOR 7 SPAN VIADUCT OPTION



SOUTHBOUND J67 (COAL HOUSE) ON SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



SOUTHBOUND J66 (EIGHTON LODGE) OFF SLIP  
LONGITUDINAL SECTION  
Design Speed 70kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2



SCALE 1:250



SCALE 1:1250

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Suitability	Application Issue				Status	A3
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PINS Reference Number  
TR010031/APP/2.5(F)



Project Title  
A1 BIRTLEY TO COAL HOUSE

Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 5 OF 9

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe

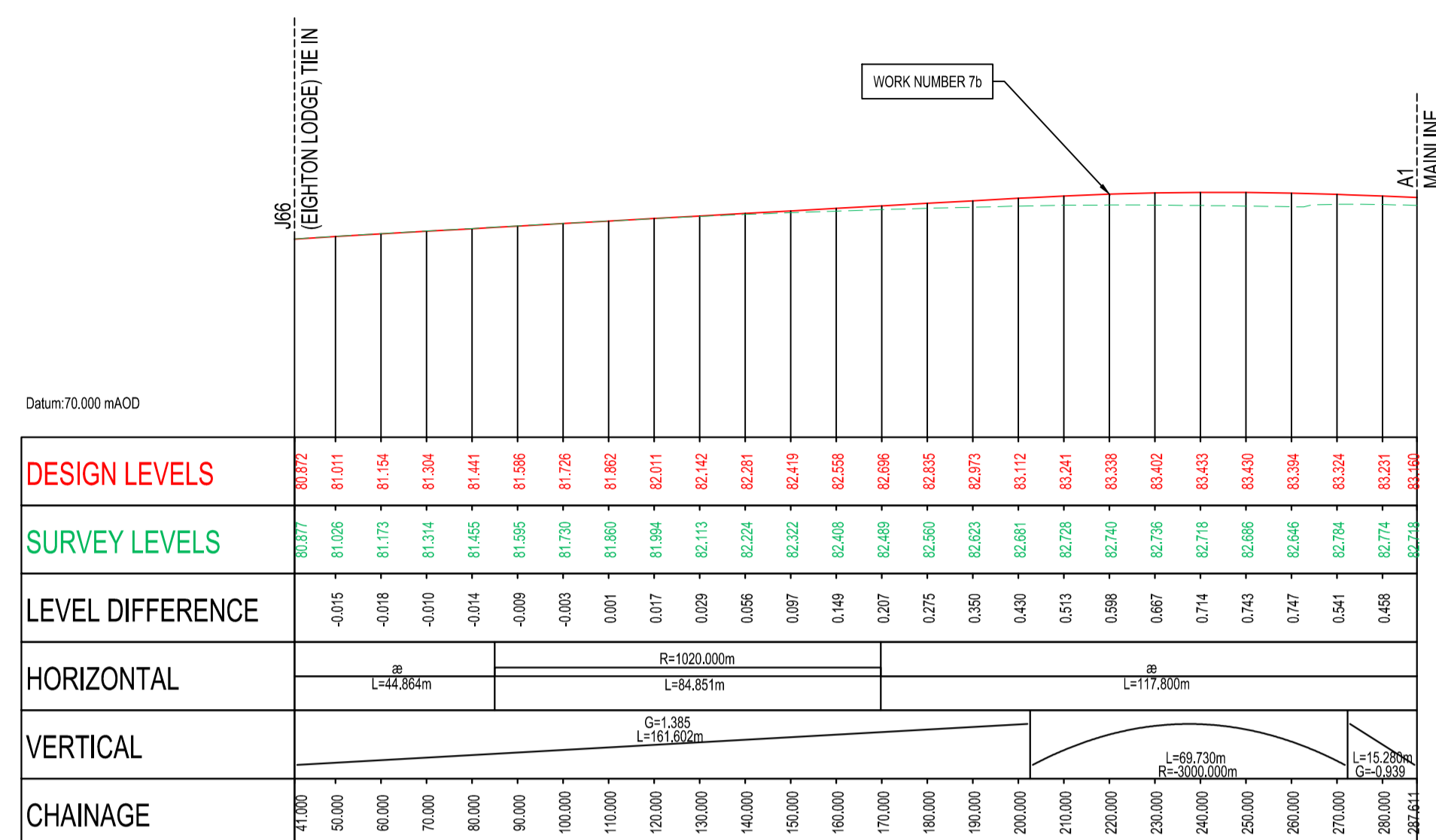
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Drawing Number	HE551462	Originator	WSP	Volume	LSI	Revision	1
Section	ZZ	Type	DR	Role	ZL	Number	45005

- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
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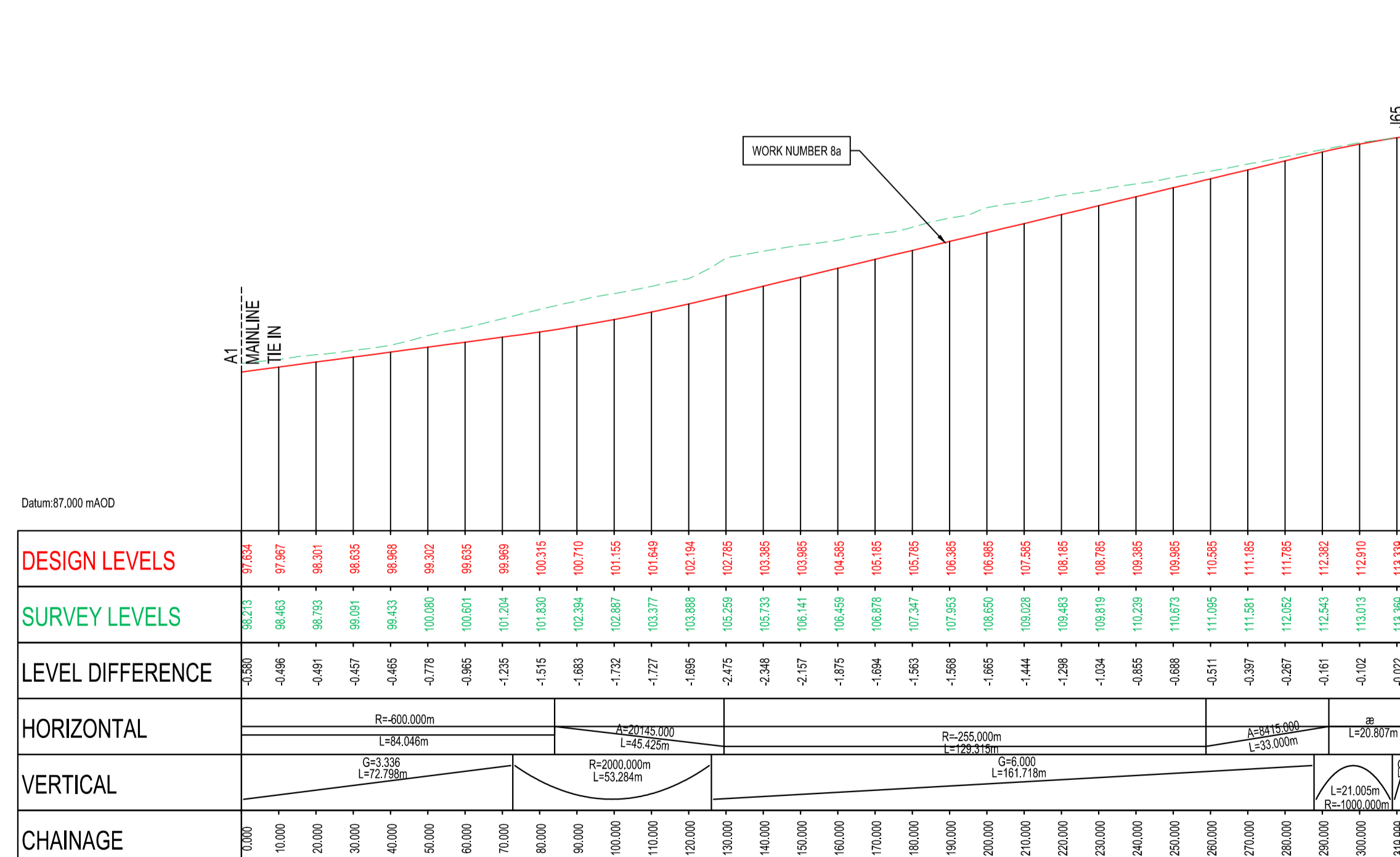
KEY

	PROPOSED LEVELS
	EXISTING LEVELS
	STRUCTURES
	WIDENING FOR 7 SPAN VIADUCT OPTION



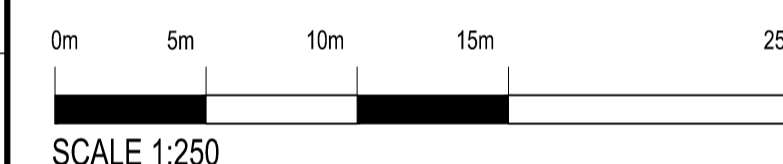
SOUTHBOUND J66 (EIGHTON LODGE) ON SLIP  
LONGITUDINAL SECTION  
Design Speed 70kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



SOUTHBOUND J65 (BIRTLEY) OFF SLIP  
LONGITUDINAL SECTION  
Design Speed 70kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	Status
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR	
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR	

Application Issue							A3
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PINS Reference Number  
TR010031/APP/2.5(G)



Project Title  
A1 BIRTLEY TO COAL HOUSE

Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 6 OF 9

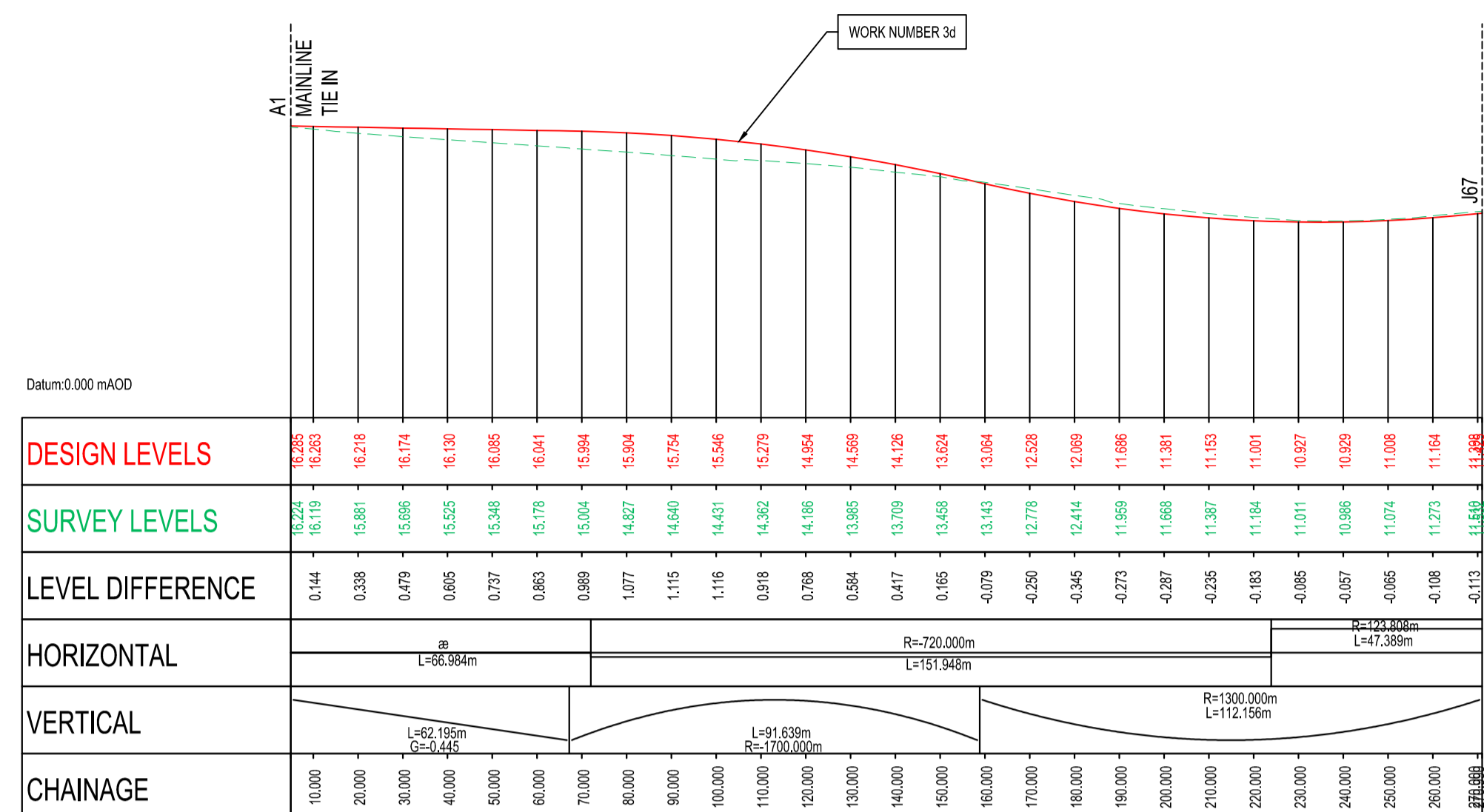
Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	1
Section	Type	ID	Number
ZZ	DR	ZL	45006
PW Stage Code			3

- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER APPLICATION (DOCUMENT REFERENCE TR010031/APP/3.1)
  4. MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  5. DO NOT SCALE FROM THIS DRAWING.
  6. THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE DITCHES AND THEREFORE ARE NOT SHOWN.
  7. THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

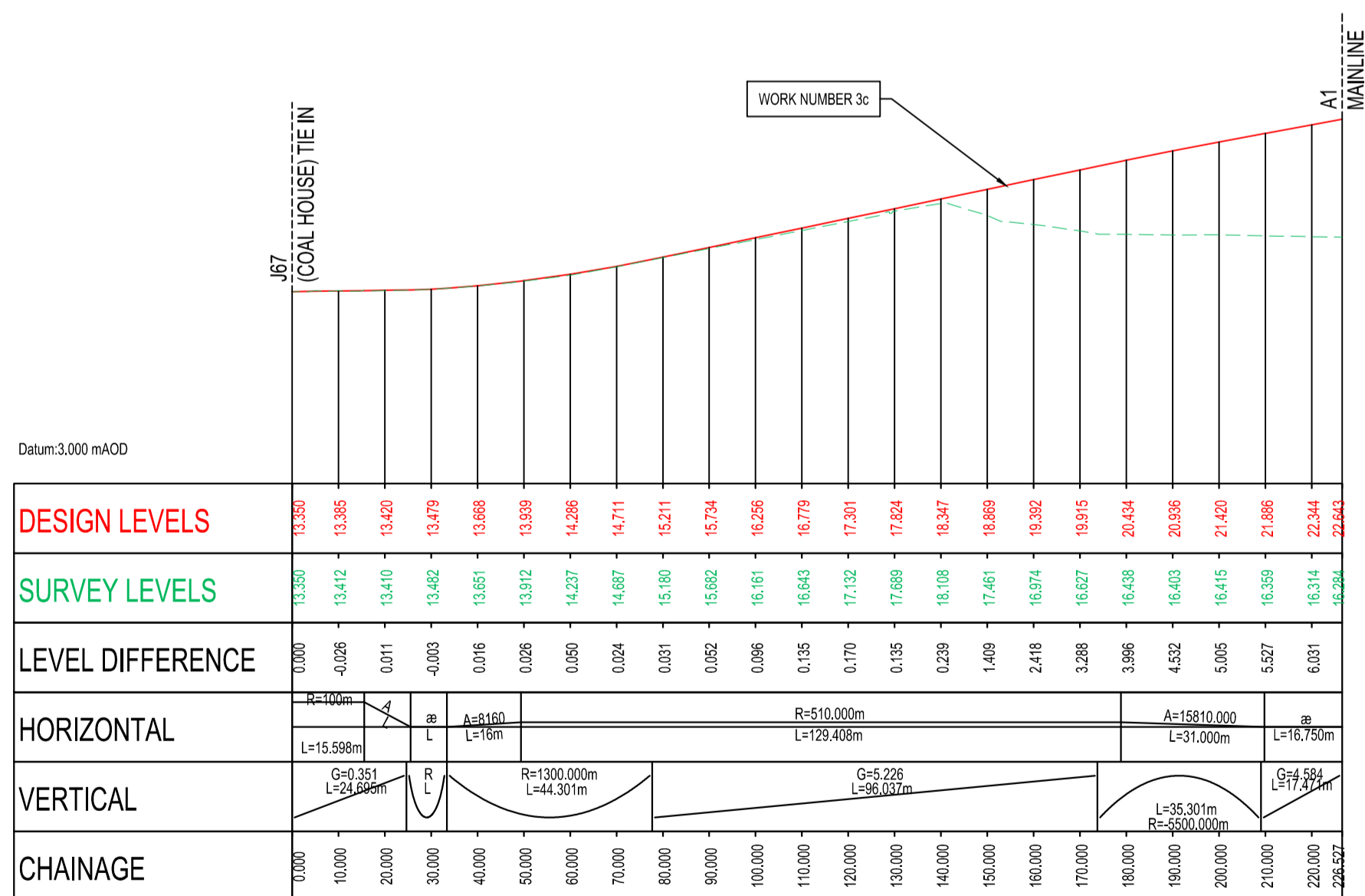
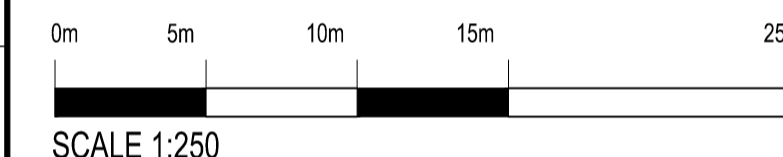
KEY

- PROPOSED LEVELS
- EXISTING LEVELS
- STRUCTURES
- WIDENING FOR 7 SPAN VIADUCT OPTION



NORTHBOUND J67 (COAL HOUSE) ON SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



NORTHBOUND J67 (COAL HOUSE) OFF SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Subtable	Application Issue	Status	A3
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PINS Reference Number  
TR010031/APP/2.5(H)



Project Title  
A1 BIRTLEY TO COAL HOUSE

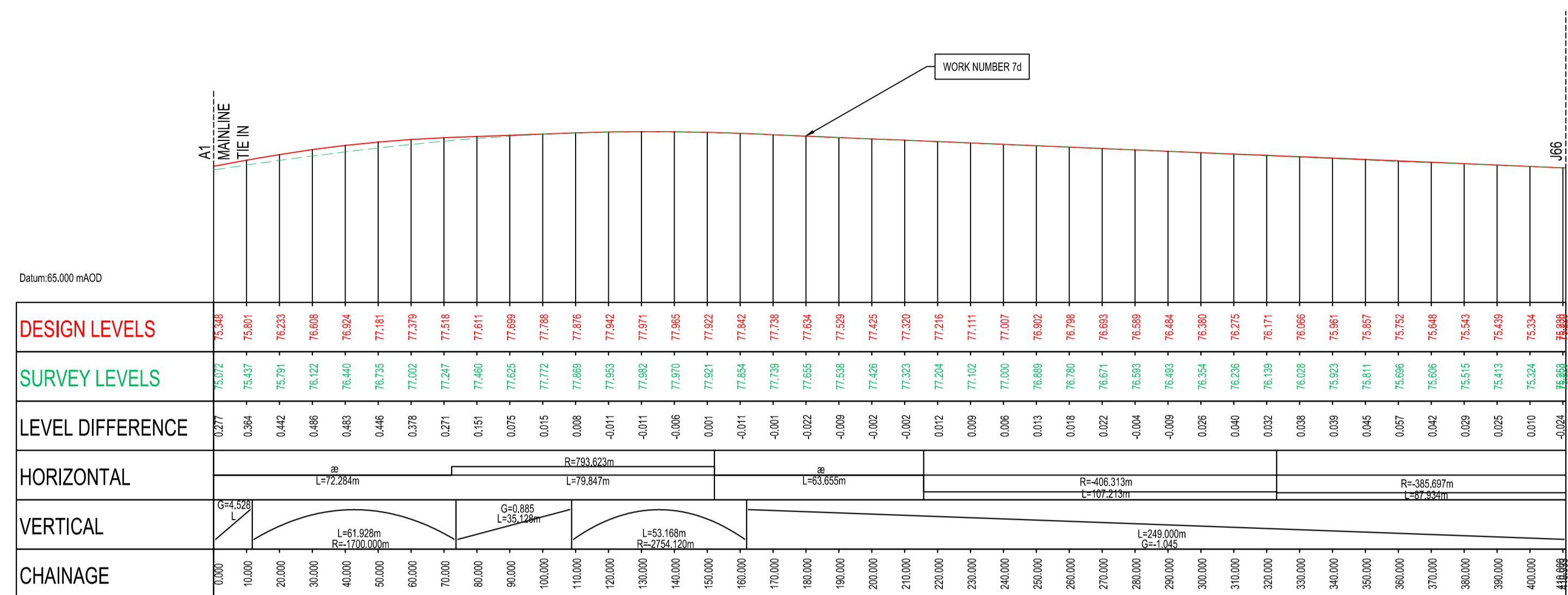
Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 7 OF 9

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	1
Section	Type	Role	Number
ZZ	DR	ZL	45007
			3

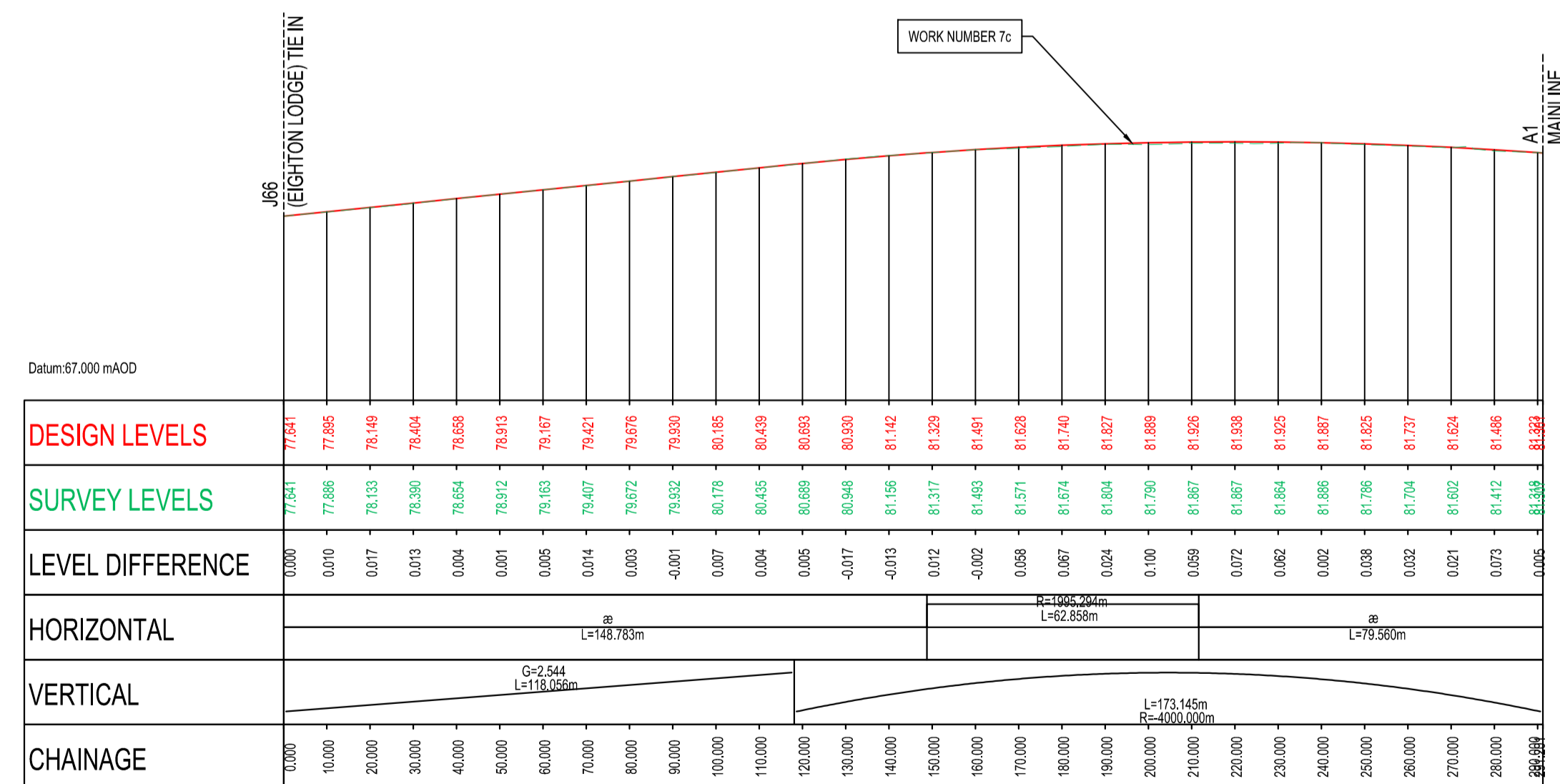
- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER APPLICATION (DOCUMENT REFERENCE TR010031/APP/3.1)
  4. MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  5. DO NOT SCALE FROM THIS DRAWING.
  6. THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE DITCHES AND THEREFORE ARE NOT SHOWN.
  7. THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

- KEY
- PROPOSED LEVELS
  - EXISTING LEVELS
  - STRUCTURES
  - WIDENING FOR 7 SPAN VIADUCT OPTION



NORTHBOUND J66 (EIGHTON LODGE) ON SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1



NORTHBOUND J66 (EIGHTON LODGE) OFF SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 2



SCALE 1:250



SCALE 1:1250

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Submittal	Application Issue				Status	A3
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PINS Reference Number  
**TR010031/APP/2.5(I)**

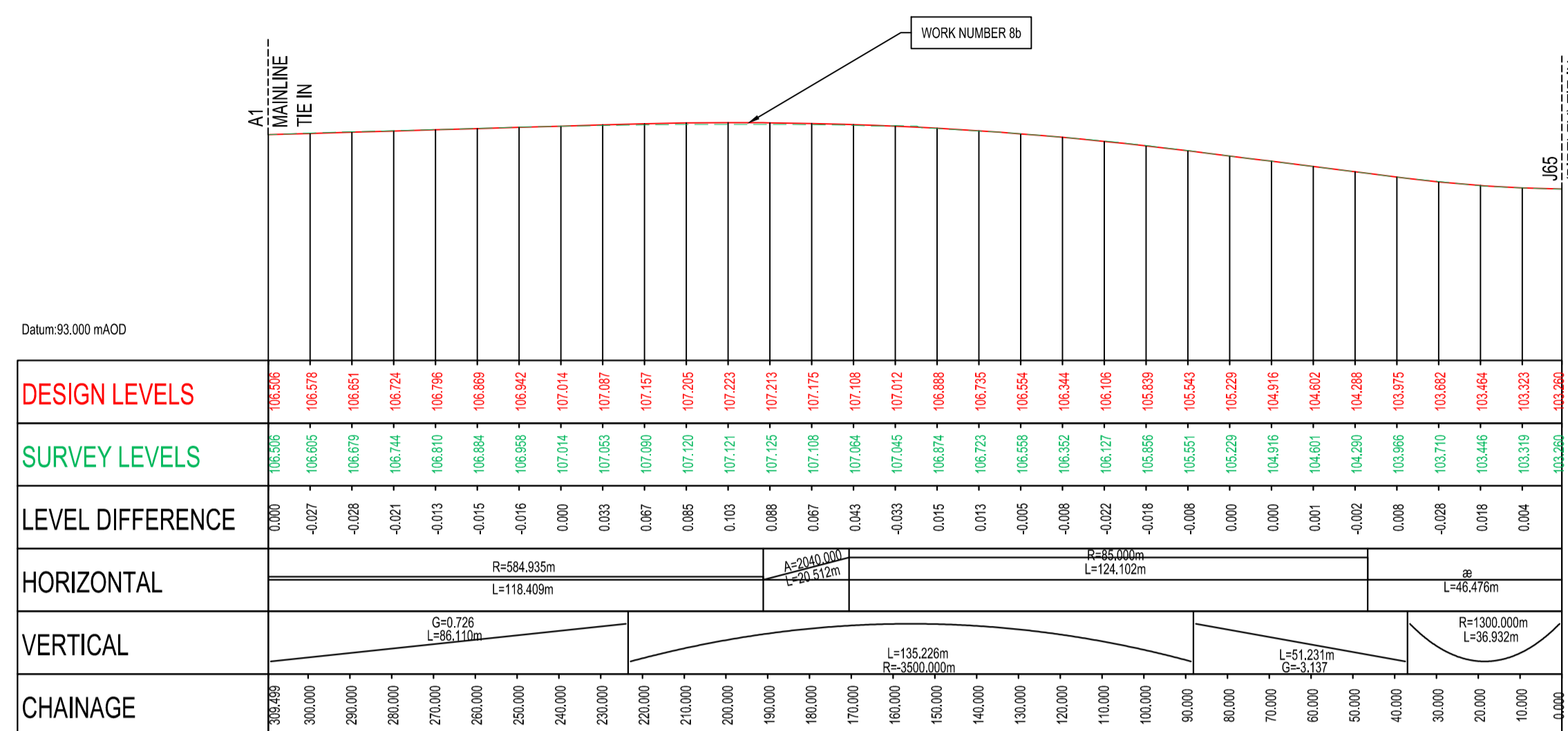


Project Title  
**A1 BIRTLEY TO COAL HOUSE**

Drawing Title  
**ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 8 OF 9**

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	1
Section	Type	Role	Number
ZZ	DR	ZL	45008
PW Stage Code			3



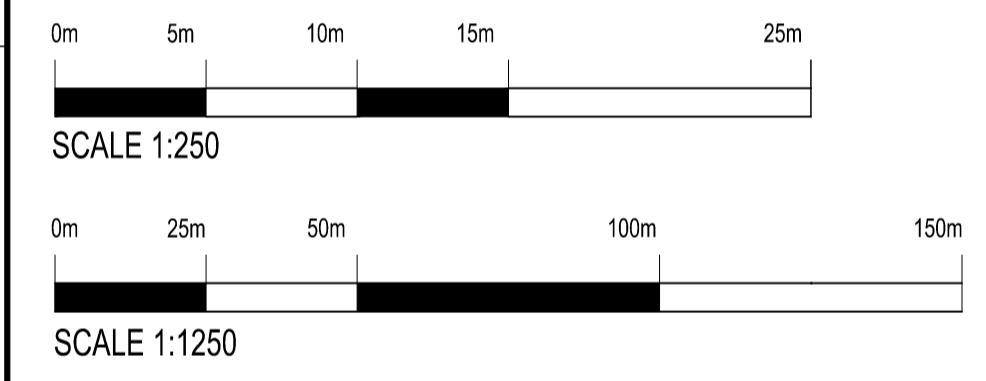
NORTHBOUND J65 (BIRTLEY) ON SLIP  
LONGITUDINAL SECTION  
Design Speed 60kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

REFERENCE 1

- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER APPLICATION (DOCUMENT REFERENCE TR010031/APP/3.1)
  4. MAINLINE LONG SECTIONS WERE CUT THROUGH CENTRAL RESERVATION, FOR SPECIFIC DESIGN SPEED INFORMATION SEE INDIVIDUAL LONG SECTIONS
  5. DO NOT SCALE FROM THIS DRAWING.
  6. THE PROPOSED CONSTRUCTION OF ALLERDENE CULVERT (WORKS 20) ONLY APPLIES TO THE SINGLE SPAN OPTION, THE 6 & 7 SPAN VIADUCT OPTIONS REQUIRE DITCHES AND THEREFORE ARE NOT SHOWN.
  7. THE DRAINAGE OUTFALL DISCHARGE POINTS DO NOT ALL LIE ON THE MAINLINE. SEE THE WORKS PLANS (DOCUMENT REFERENCE TR010031/APP/2.3) FOR EXACT LOCATIONS.

KEY

- PROPOSED LEVELS
- EXISTING LEVELS
- STRUCTURES
- WIDENING FOR 7 SPAN VIADUCT OPTION



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	Status
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB		NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA		NGR

Suitability: Application Issue Status: A3

PINS Reference Number: TR010031/APP/2.5(J)



Client: A1 BIRTLEY TO COAL HOUSE

Drawing Title: ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 9 OF 9

Scale	Drawn	Eng. Check	Approved	Authorised
As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe

Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20