

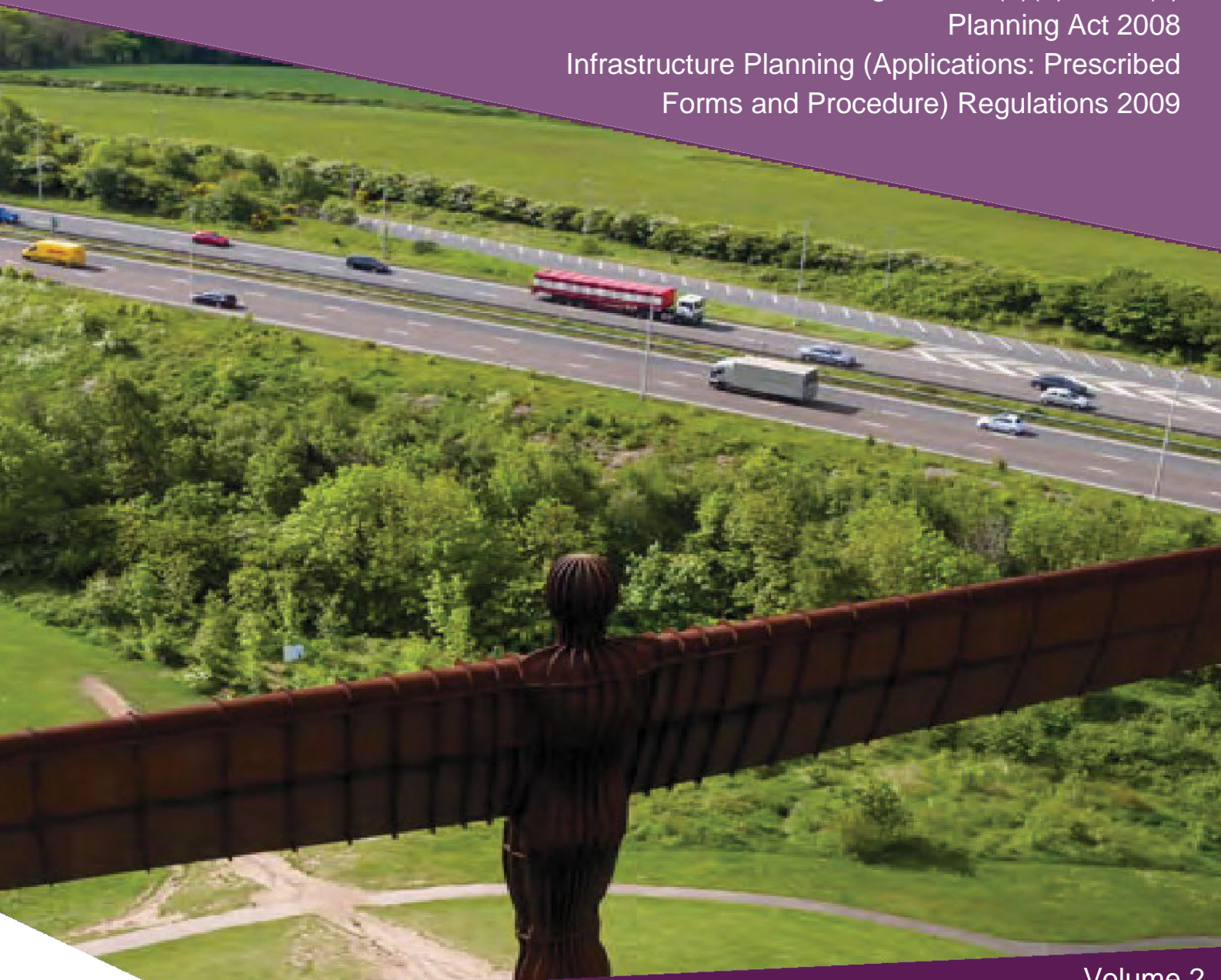
# A1 Birtley to Coal House

**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 2	20/04/2020	Examination Deadline 4 (Viaduct Options)

## CONTENTS

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## 1 INTRODUCTION

### 1.1 Purpose of this Document

1.1.1 The Engineering Section Drawings (the "Drawings") relate to an application made by Highways England (the "Applicant") to the Secretary of State for Transport under the Planning Act 2008 (the "2008 Act") for a Development Consent Order (DCO). If made, the DCO would grant consent for 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 have been amended since the previous version by the inclusion of additional land within the Order limits as shown on drawing TRO010031/APP/2.5 (A) to the South of Allerdene Railway Bridge. These drawings also allow the inclusion of additional engineering options within the Order limits as shown on drawing TRO010031/APP/2.5 (A) in relation to the option of narrower lanes on Kingsway Viaduct; and TRO010031/APP/2.5 (B) in respect of a three-span viaduct option for the proposed Allerdene Railway Bridge. The Applicant has submitted a request to the Examining Authority (AS-009) to amend the Order limits to include additional land to be subject to powers of temporary possession that is required for a construction compound and materials stockpile, and to accommodate these additional engineering options. Should the amendments to the application be admitted by the Examining Authority these drawings should be substituted for those shown in the table in Section 2 of this document.

1.1.3 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."*

1.1.4 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."*

1.1.5 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**).

1.1.6 Following the submission of the Engineering Section Drawings (**APP-009**) for Deadline 3 (16/03/20), the following amendments have been instigated for Deadline 4. The amendments detailed below have been commissioned by the Applicant following comments received via previous written representation and questions from the Planning Inspectorate and Consultees. The Scheme has also been subject to design changes following technical variations identified by the contractor in accordance with Sections 87(1) and 89 of the Planning Act (2008).

- The key plan has been updated to include an additional area of land within the Order Limits and the option of narrower lanes over the Kingsway Viaduct.
- Sheet 1 has been updated to show the 3-span bridge option.

## 2 SCHEDULE OF PLANS INCLUDED IN THIS APPLICATION DOCUMENT

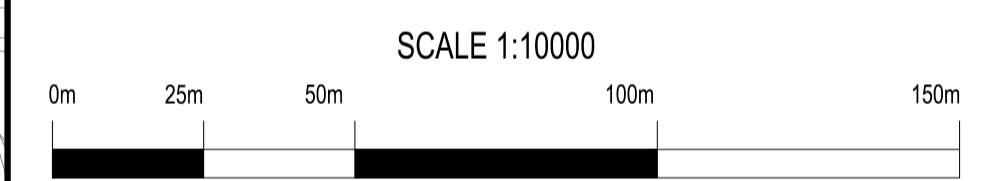
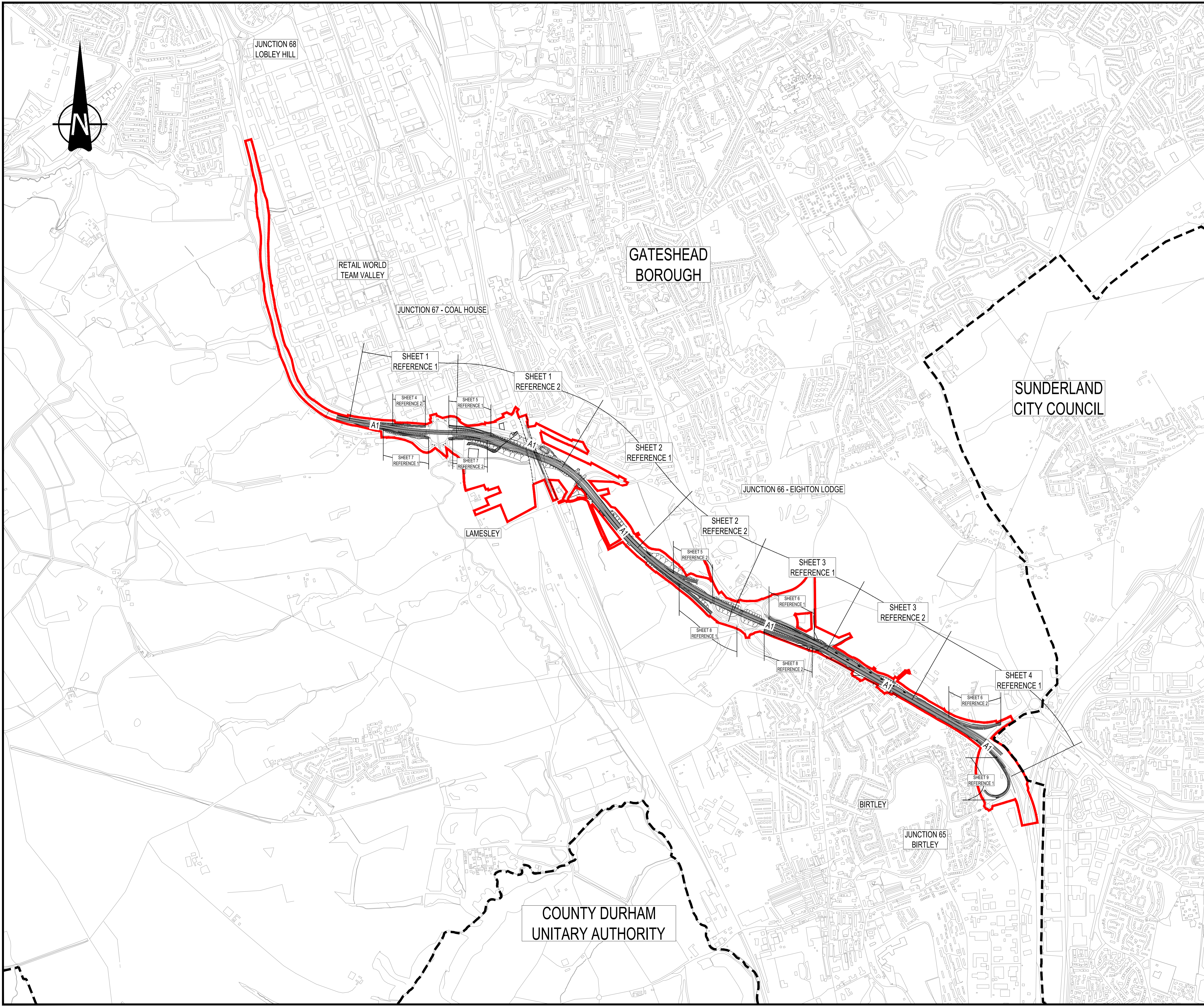
Document Title	Document Number	Old Revision	New Revision	Change
Engineering Section Drawings – Regulation 5(2)(o), 6(2) & 5(4) – Key Plan	TR010031/APP/2.5(A)	Rev 1	Rev 2	Updated to show the additional area of land within the Order Limits and the option of narrower lanes over the Kingsway Viaduct.
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 1 of 9	TR010031/APP/2.5(B)	Rev 1	Rev 2	Updated to show the 3-span bridge option.
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 2 of 9	TR010031/APP/2.5(C)	Rev 1		No change
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 3 of 9	TR010031/APP/2.5(D)	Rev 1		No change
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 4 of 9	TR010031/APP/2.5(E)	Rev 1		No change
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 5 of 9	TR010031/APP/2.5(F)	Rev 1		No change
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 6 of 9	TR010031/APP/2.5(G)	Rev 1		No change
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 7 of 9	TR010031/APP/2.5(H)	Rev 1		No change

Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 8 of 9	TR010031/APP/2.5(I)	Rev 1		No change
Engineering Section Drawings – Regulation 5(2)(o) & 6(2) – Sheet 9 of 9	TR010031/APP/2.5(J)	Rev 1		No change

- 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
2	20/04/20	EXAMINATION DEADLINE 4 UPDATE		AK	MB	MB NGR
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE		JS	MB	MB NGR
0	22/07/19	APPLICATION ISSUE		AW	IA	IA NGR

Application Issue S0

PINS Reference Number TR010031/APP/2.5(A)

Client

Project Title A1 BIRTLEY TO COAL HOUSE

Drawing Title ENGINEERING SECTIONS DRAWINGS KEY PLAN

Scale	Drawn	Eng. Check	Approved	Authorised
1:10000	a.khaji	m.birkett	m.birkett	n.rawcliffe

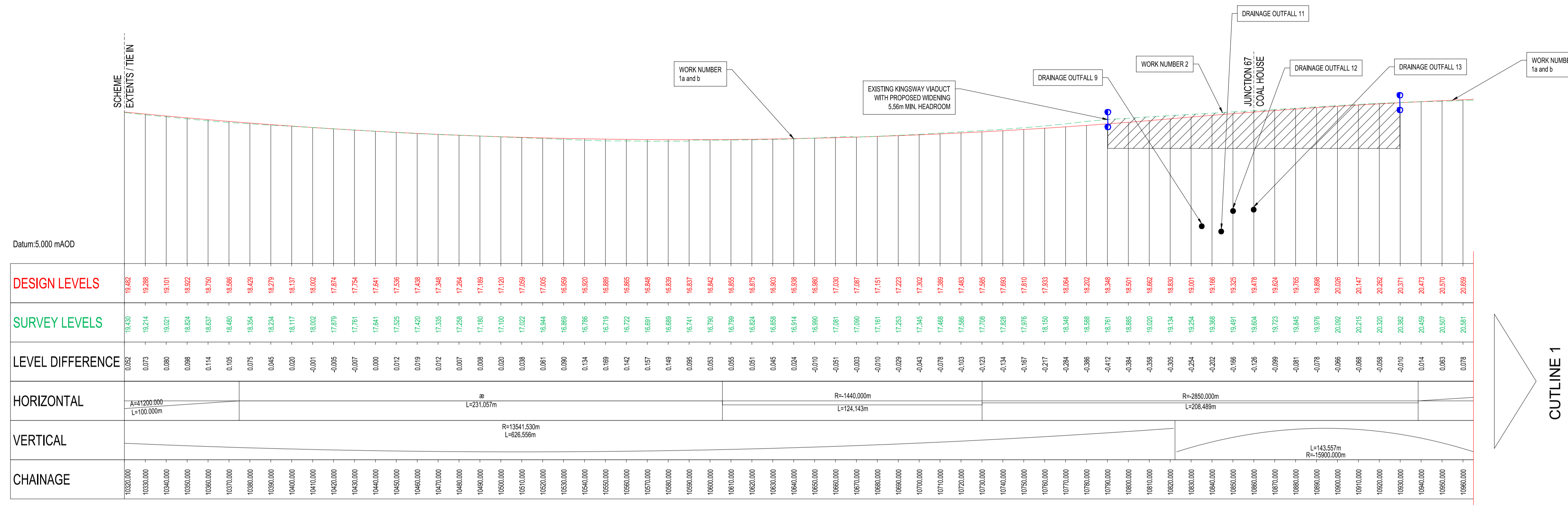
Original Size	Date	Date	Date	Date
A1	20/04/20	20/04/20	20/04/20	20/04/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	2
ZZ	DR	ZL 45000	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 PITCHES 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.

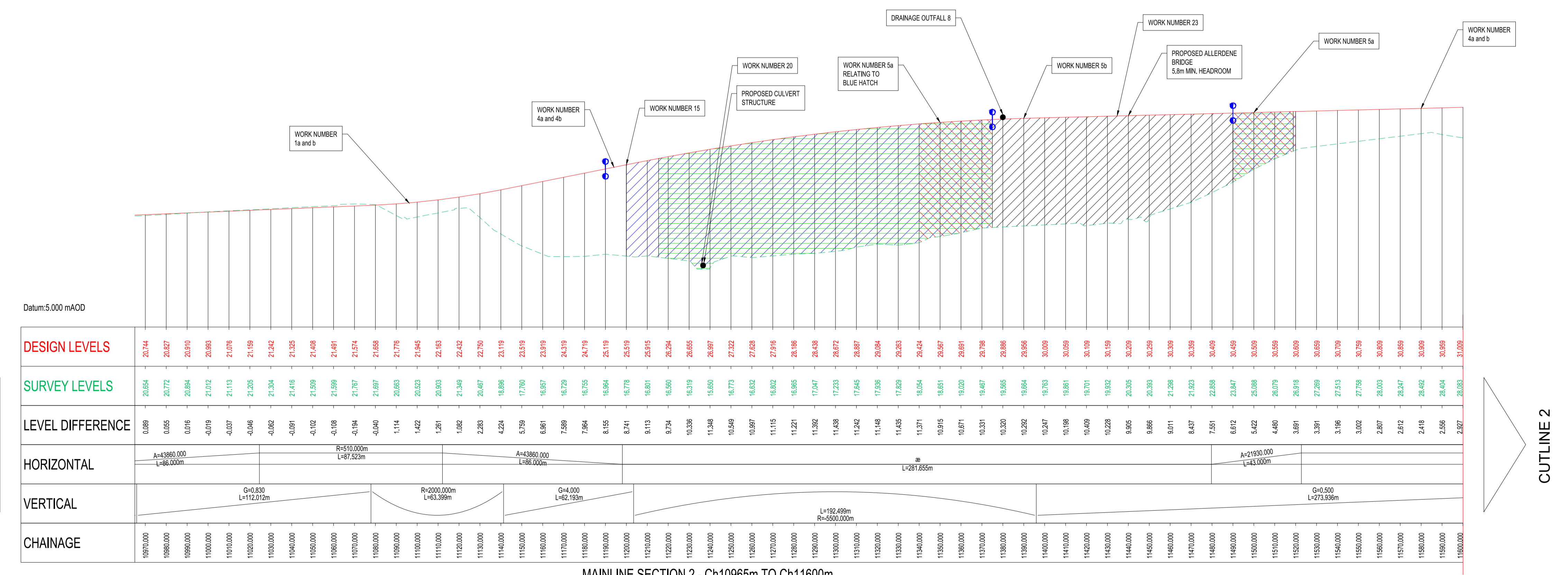
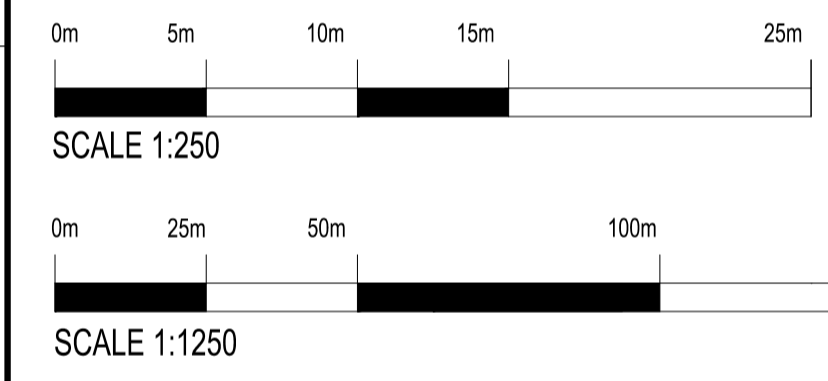
- KEY
- PROPOSED LEVELS
  - EXISTING LEVELS
  - STRUCTURES
  - WIDENING FOR 7 SPAN VIADUCT OPTION
  - WIDENING FOR 3 SPAN VIADUCT OPTION
  - WIDENING FOR 6 SPAN VIADUCT OPTION



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

CUTLINE 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

CUTLINE 2

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
2	20/04/20	EXAMINATION DEADLINE 4 UPDATE	AK	MB	MB	NGR
1	25/02/20	EXAMINATION DEADLINE 2 UPDATE	JS	MB	MB	NGR
0	22/07/19	APPLICATION ISSUE	AW	IA	IA	NGR

Subsidiary Application Issue Status SO

PINS Reference Number TR010031/APP/2.5(B)



Project Title A1 BIRTLEY TO COAL HOUSE

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

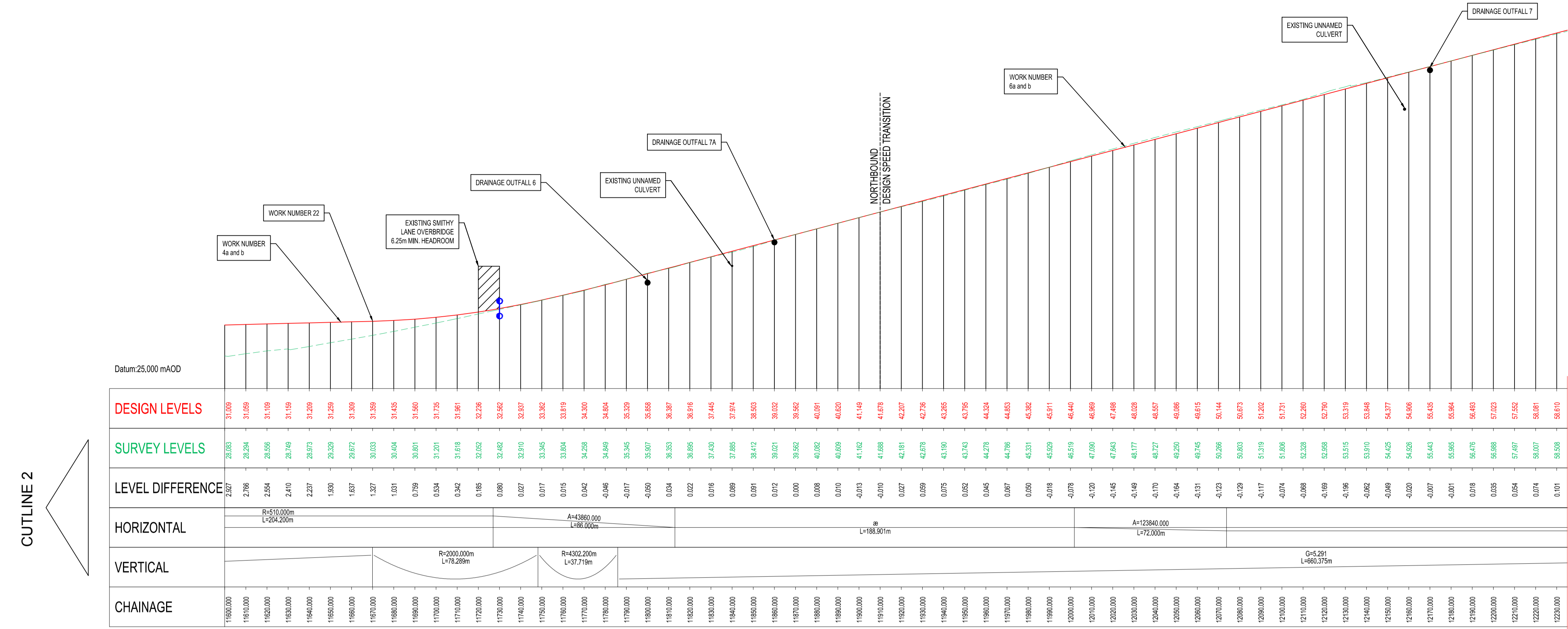
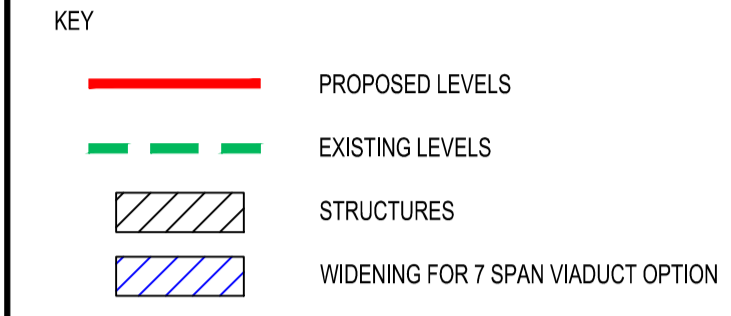
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As Shown	a.khaji	m.birkett	m.birkett	n.rawcliffe

Original Size	Date	Date	Date	Date
A1	20/04/20	20/04/20	20/04/20	20/04/20

Drawing Number	Originator	Volume	Revision
HE551462	WSP	LSI	2

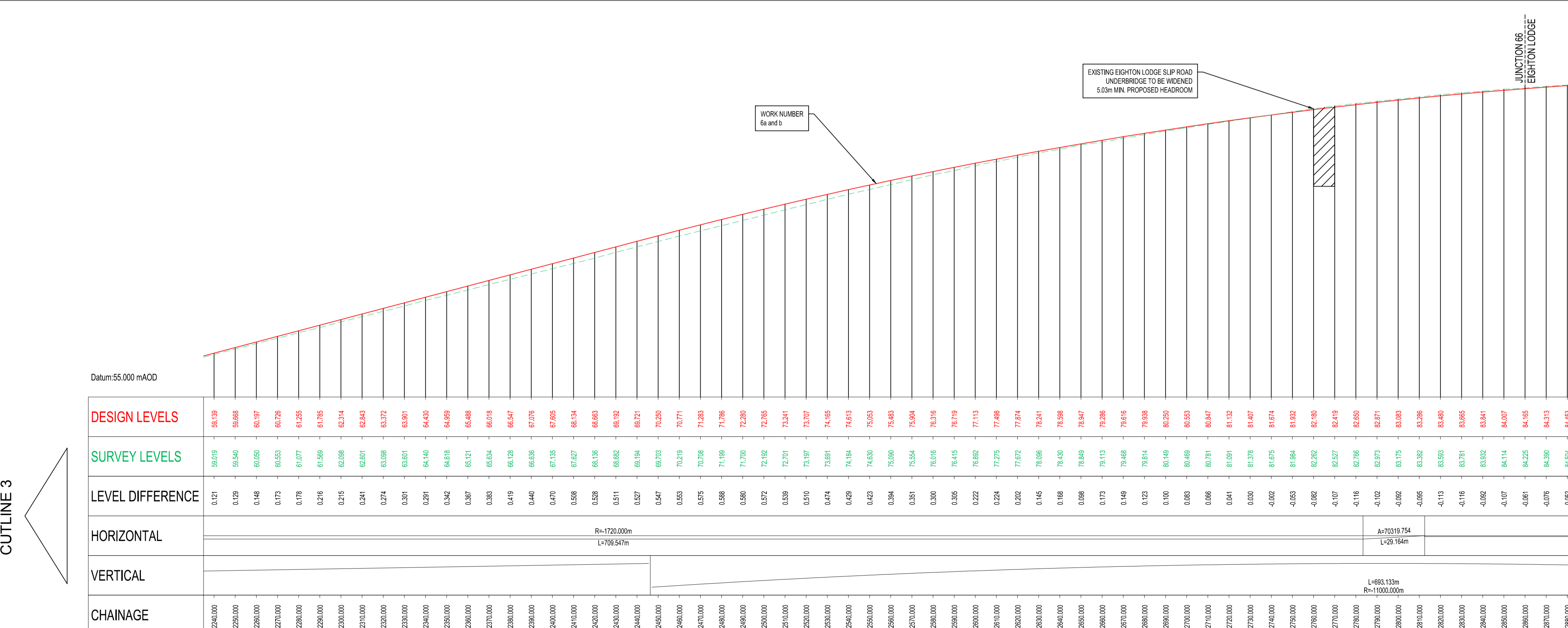
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- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT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



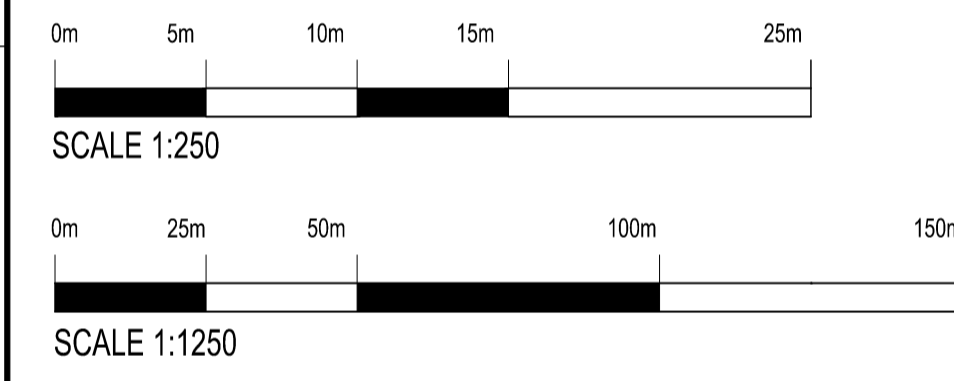
MAINLINE SECTION 3 - Ch11600m TO Ch12235m  
LONGITUDINAL SECTION  
Southbound Design Speed 85kph - 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

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

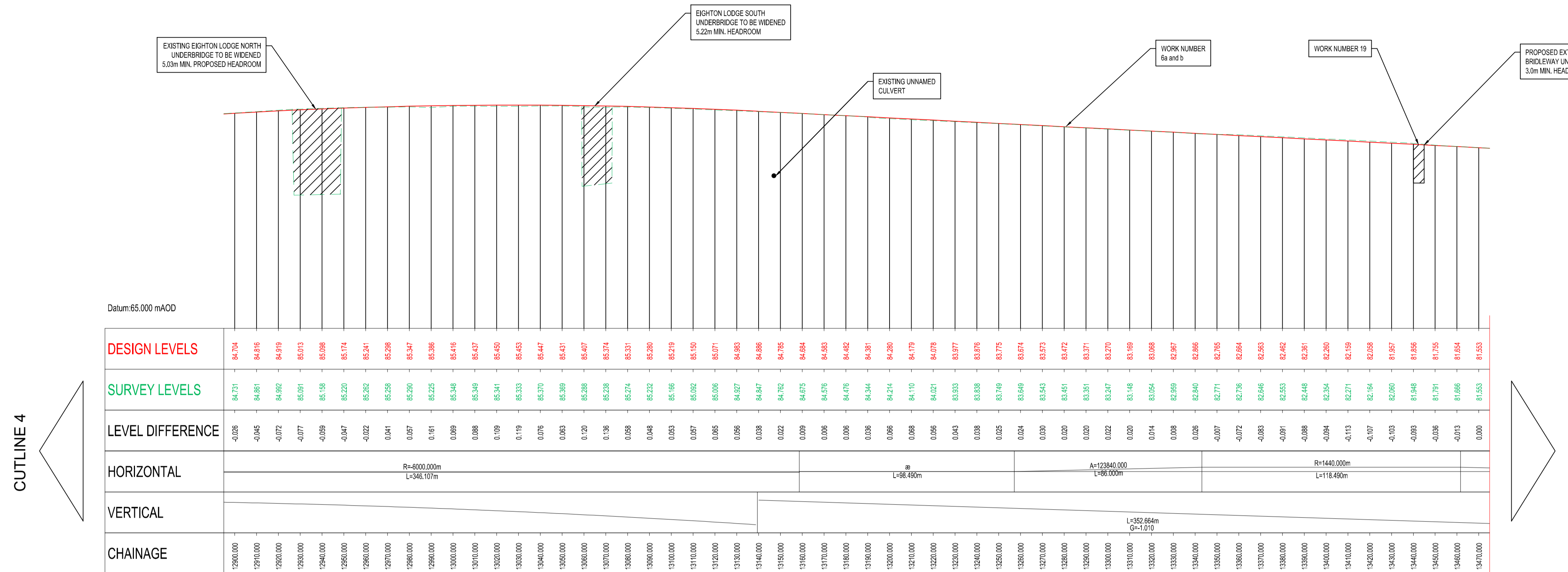
Drawing Title ENGINEERING SECTIONS DRAWINGS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 2 OF 9

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
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



Datum: 65.000 mAOD

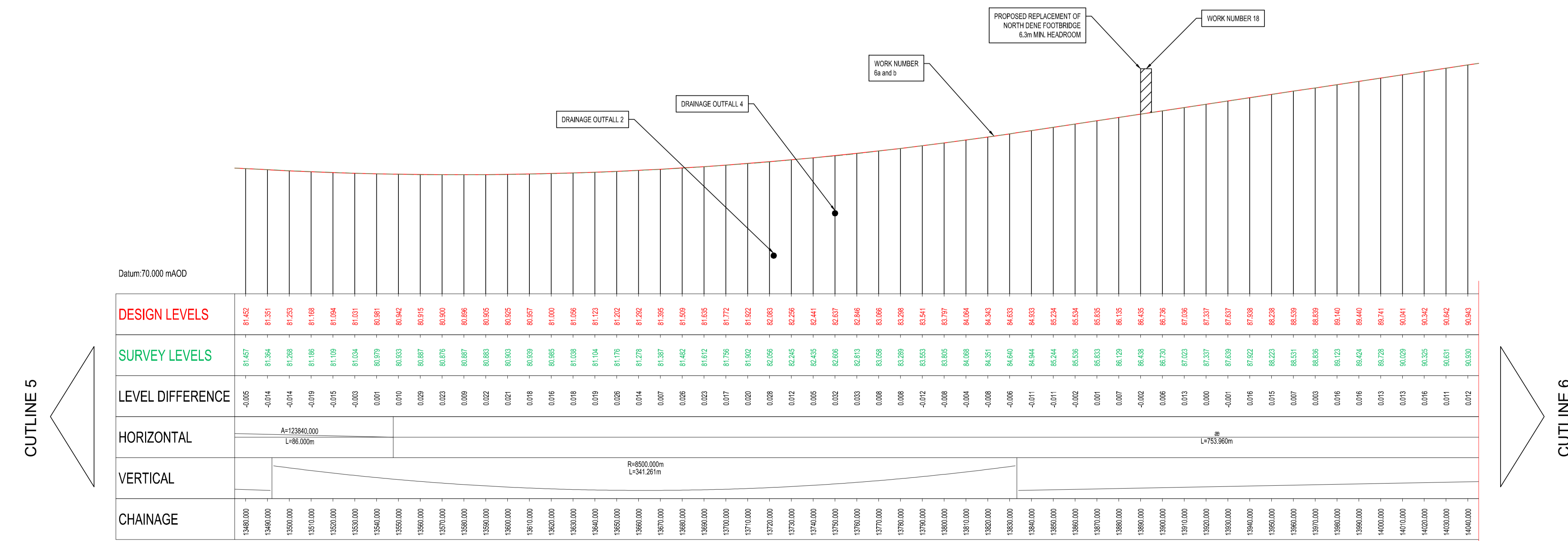
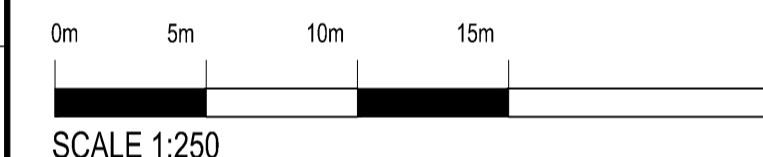
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84.919	84.892	-0.072			12920.000
85.013	85.091	-0.077			12930.000
85.098	85.158	-0.059			12940.000
85.174	85.220	-0.047			12950.000
85.241	85.282	-0.022			12960.000
85.298	85.298	0.041			12970.000
85.347	85.290	0.057			12980.000
85.386	85.225	0.161			12990.000
85.416	85.248	0.089			13000.000
85.437	85.249	0.088			13010.000
85.450	85.241	0.109			13020.000
85.453	85.233	0.119			13030.000
85.447	85.209	0.076			13040.000
85.431	85.209	0.083			13050.000
85.407	85.208	0.120			13060.000
85.374	85.228	0.136			13070.000
85.331	85.274	0.058			13080.000
85.280	85.274	0.048			13090.000
85.219	85.168	0.053			13100.000
85.150	85.092	0.057			13110.000
85.071	85.008	0.065			13120.000
84.983	84.927	0.056			13130.000
84.886	84.847	0.039			13140.000
84.785	84.792	-0.007			13150.000
84.684	84.675	0.009			13160.000
84.583	84.578	0.006			13170.000
84.482	84.475	0.006			13180.000
84.381	84.344	0.036			13190.000
84.280	84.214	0.066			13200.000
84.179	84.110	0.068			13210.000
84.078	84.021	0.056			13220.000
83.977	83.933	0.043			13230.000
83.876	83.838	0.038			13240.000
83.775	83.749	0.025			13250.000
83.674	83.649	0.024			13260.000
83.573	83.545	0.028			13270.000
83.472	83.451	0.020			13280.000
83.371	83.351	0.020			13290.000
83.270	83.247	0.022			13300.000
83.169	83.148	0.020			13310.000
83.068	83.054	0.014			13320.000
82.967	82.959	0.008			13330.000
82.866	82.840	0.026			13340.000
82.765	82.771	-0.007			13350.000
82.664	82.738	-0.072			13360.000
82.563	82.648	-0.083			13370.000
82.462	82.553	-0.091			13380.000
82.361	82.448	-0.086			13390.000
82.260	82.354	-0.094			13400.000
82.159	82.271	-0.113			13410.000
82.058	82.154	-0.107			13420.000
81.957	82.090	-0.103			13430.000
81.856	81.948	-0.083			13440.000
81.755	81.791	-0.036			13450.000
81.654	81.668	-0.013			13460.000
81.553	81.553	0.000			13470.000

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

CUTLINE 4

CUTLINE 5



Datum: 70.000 mAOD

DESIGN LEVELS	SURVEY LEVELS	LEVEL DIFFERENCE	HORIZONTAL	VERTICAL	CHAINAGE
81.452	81.457	-0.005			13480.000
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81.253	81.258	-0.014			13500.000
81.158	81.156	-0.019			13510.000
81.054	81.109	-0.015			13520.000
81.001	81.104	-0.003			13530.000
80.981	80.979	0.001			13540.000
80.942	80.933	0.010			13550.000
80.915	80.887	0.028			13560.000
80.900	80.876	0.023			13570.000
80.886	80.867	0.019			13580.000
80.895	80.853	0.042			13590.000
80.825	80.803	0.021			13600.000
80.897	80.839	0.058			13610.000
80.900	80.805	0.095			13620.000
80.859	80.808	0.051			13630.000
80.823	80.808	0.015			13640.000
80.782	80.812	-0.023			13650.000
80.729	80.756	-0.027			13660.000
80.662	80.702	-0.040			13670.000
80.583	80.656	-0.073			13680.000
80.494	80.626	-0.132			13690.000
80.397	80.592	-0.195			13700.000
80.298	80.556	-0.258			13710.000
80.199	80.519	-0.320			13720.000
80.098	80.481	-0.383			13730.000
79.997	80.443	-0.446			13740.000
79.896	80.405	-0.509			13750.000
79.795	80.367	-0.572			13760.000
79.694	80.329	-0.632			13770.000
79.593	80.291	-0.694			13780.000
79.492	80.253	-0.761			13790.000
79.391	80.215	-0.824			13800.000
79.290	80.177	-0.887			13810.000
79.189	80.139	-0.948			13820.000
79.088	80.101	-1.009			13830.000
78.987	80.063	-1.070			13840.000
78.886	80.025	-1.131			13850.000
78.785	79.987	-1.192			13860.000
78.684	79.949	-1.253			13870.000
78.583	79.911	-1.314			13880.000
78.482	79.873	-1.375			13890.000
78.381	79.835	-1.436			13900.000
78.280	79.797	-1.497			13910.000
78.179	79.759	-1.558			13920.000
78.078	79.721	-1.619			13930.000
77.977	79.683	-1.680			13940.000
77.876	79.645	-1.741			13950.000
77.775	79.607	-1.802			13960.000
77.674	79.569	-1.863			13970.000
77.573	79.531	-1.924			13980.000
77.472	79.493	-1.985			13990.000
77.371	79.455	-2.046			14000.000
77.270	79.417	-2.107			14010.000
77.169	79.379	-2.168			14020.000
77.068	79.341	-2.229			14030.000
76.967	79.303	-2.290			14040.000

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

CUTLINE 5

CUTLINE 6

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

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



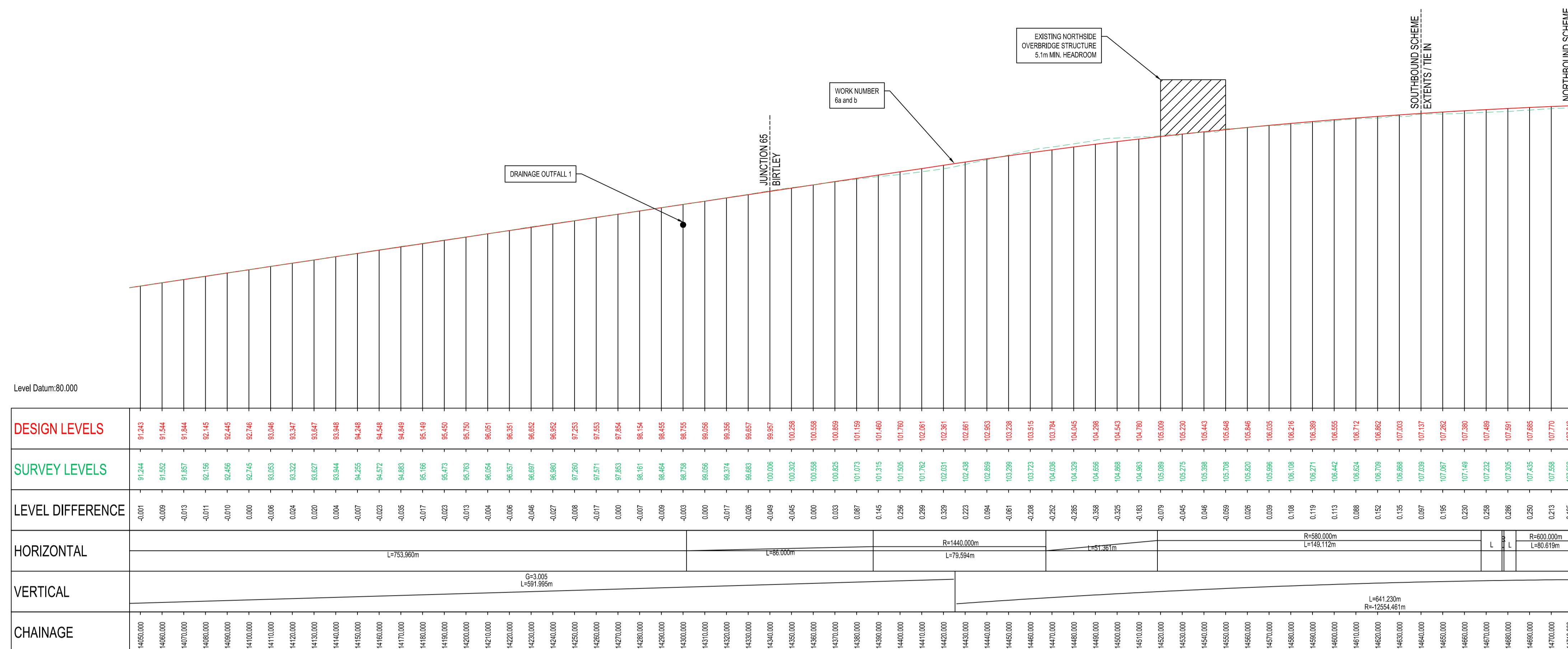
Project Title  
A1 BIRTLEY TO COAL HOUSE

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
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	45003
3			

CUTLINE 6

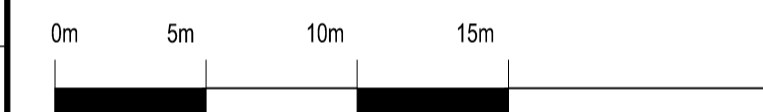


MAINLINE SECTION 3 - Ch14040m TO Ch14710m  
LONGITUDINAL SECTION  
Southbound Design Speed 120kph, Northbound Design Speed 85kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

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.

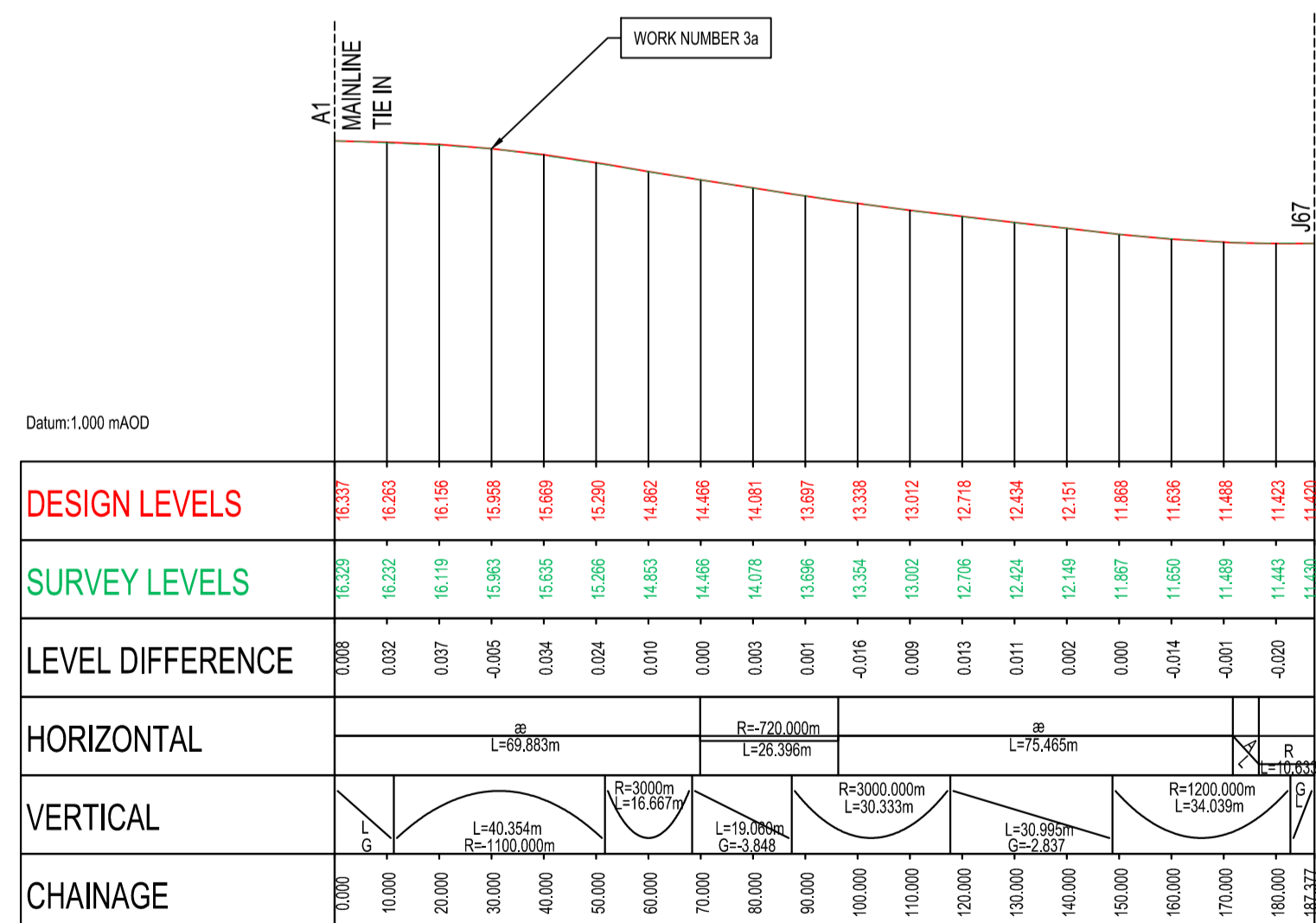
- KEY
- PROPOSED LEVELS
  - EXISTING LEVELS
  - STRUCTURES
  - WIDENING FOR 7 SPAN VIADUCT OPTION



SCALE 1:250



SCALE 1:1250



SOUTHBOUND 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

Subsidiary	Application Issue	Status	A3
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PINS Reference Number  
TR010031/APP/2.5(E)



Project Title  
A1 BIRTLEY TO COAL HOUSE

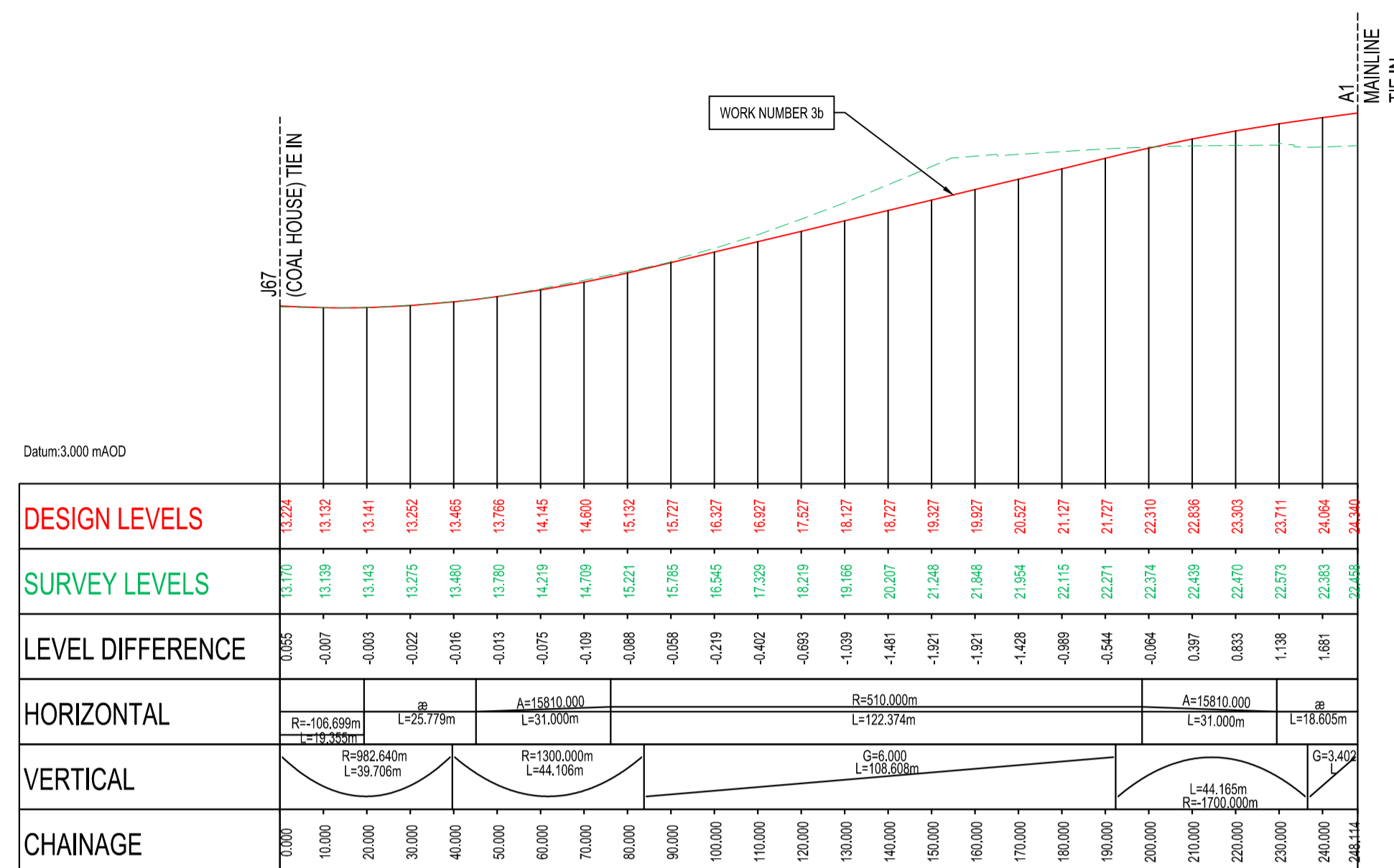
Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 4 OF 9

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

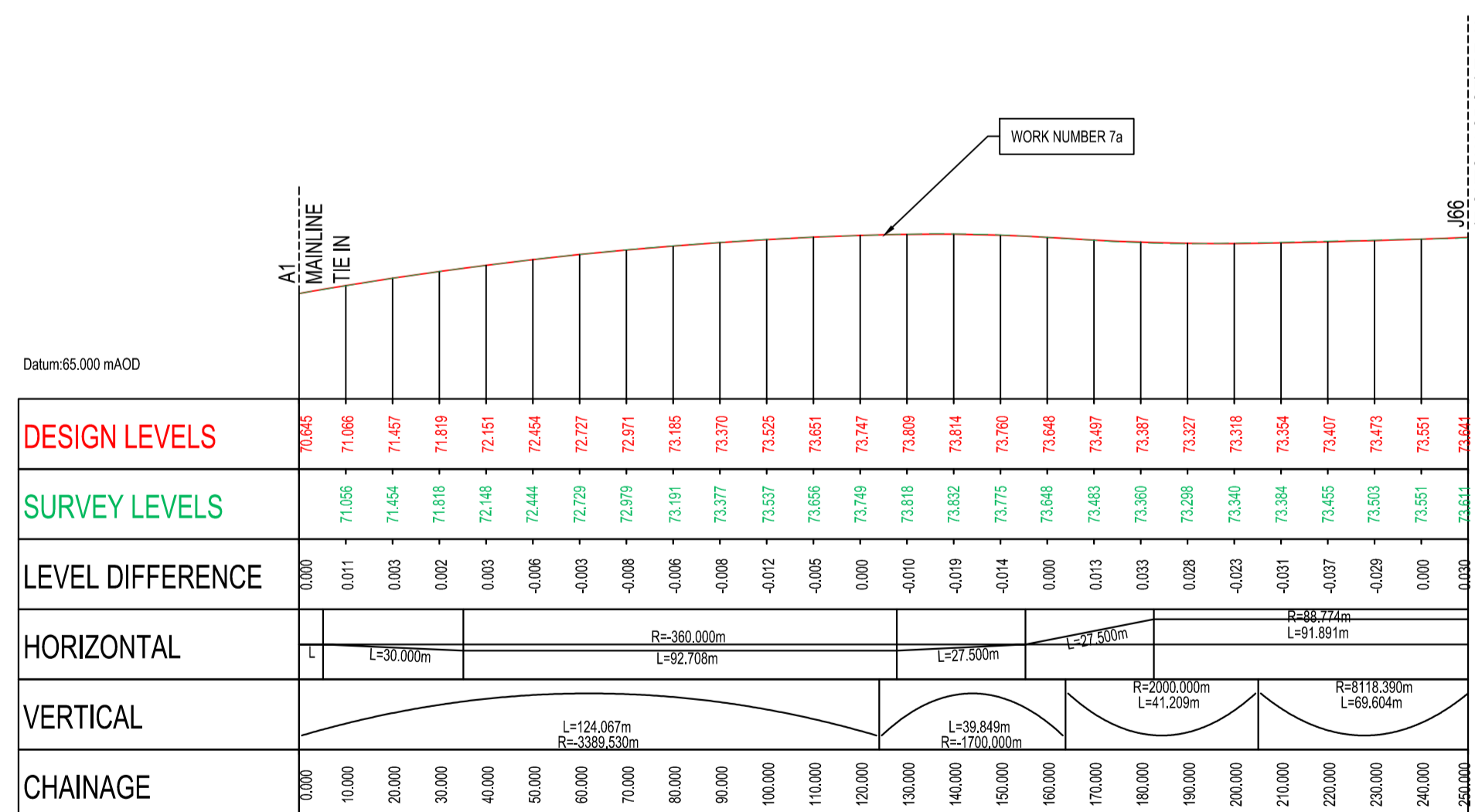
- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION 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



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

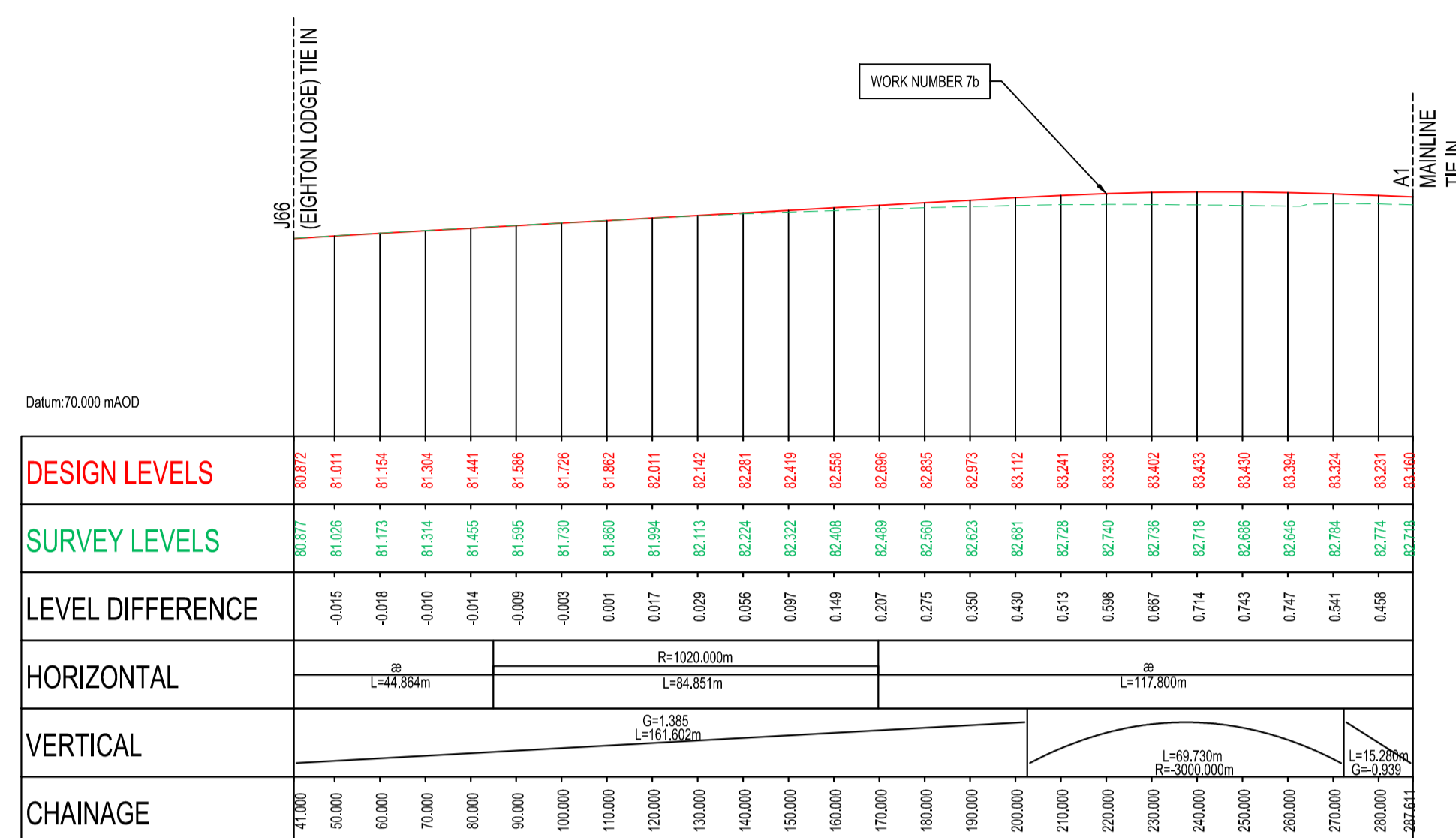
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As Shown	J.Singh	M.Birkett	M.Birkett	n.rawcliffe
Original Size	Date	Date	Date	Date
A1	25/02/20	25/02/20	25/02/20	25/02/20

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

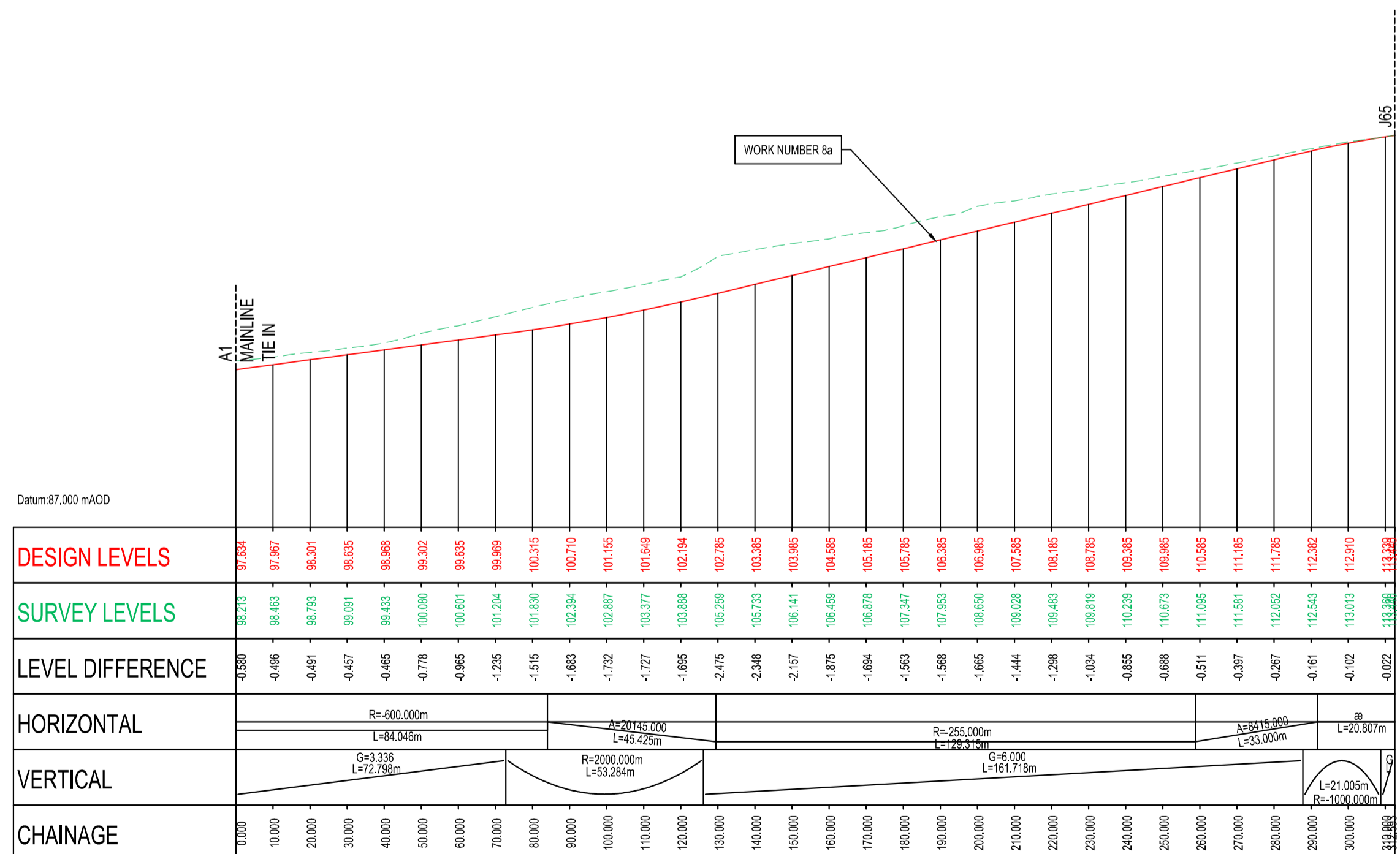
KEY

	PROPOSED LEVELS
	EXISTING LEVELS
	STRUCTURES
	WIDENING FOR 7 SPAN VIADUCT OPTION



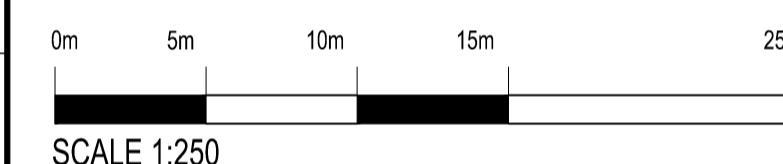
SOUTHBOUND J66 (EIGHTON LODGE) ON SLIP  
LONGITUDINAL SECTION  
Design Speed 70kph  
Horizontal Scale = 1:1250, Vertical Scale = 1:250

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
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(G)



Project Title  
A1 BIRTLEY TO COAL HOUSE

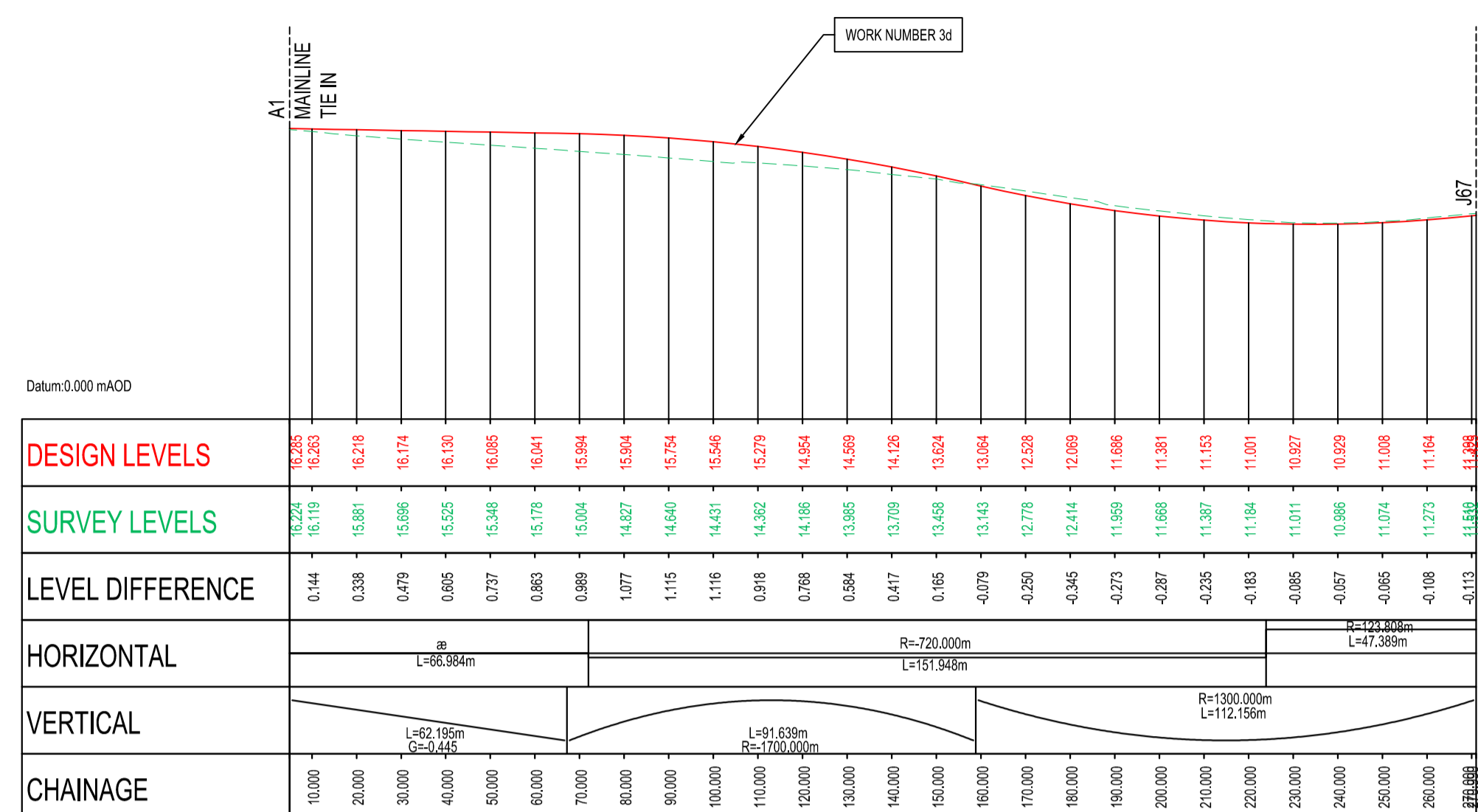
Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 6 OF 9

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

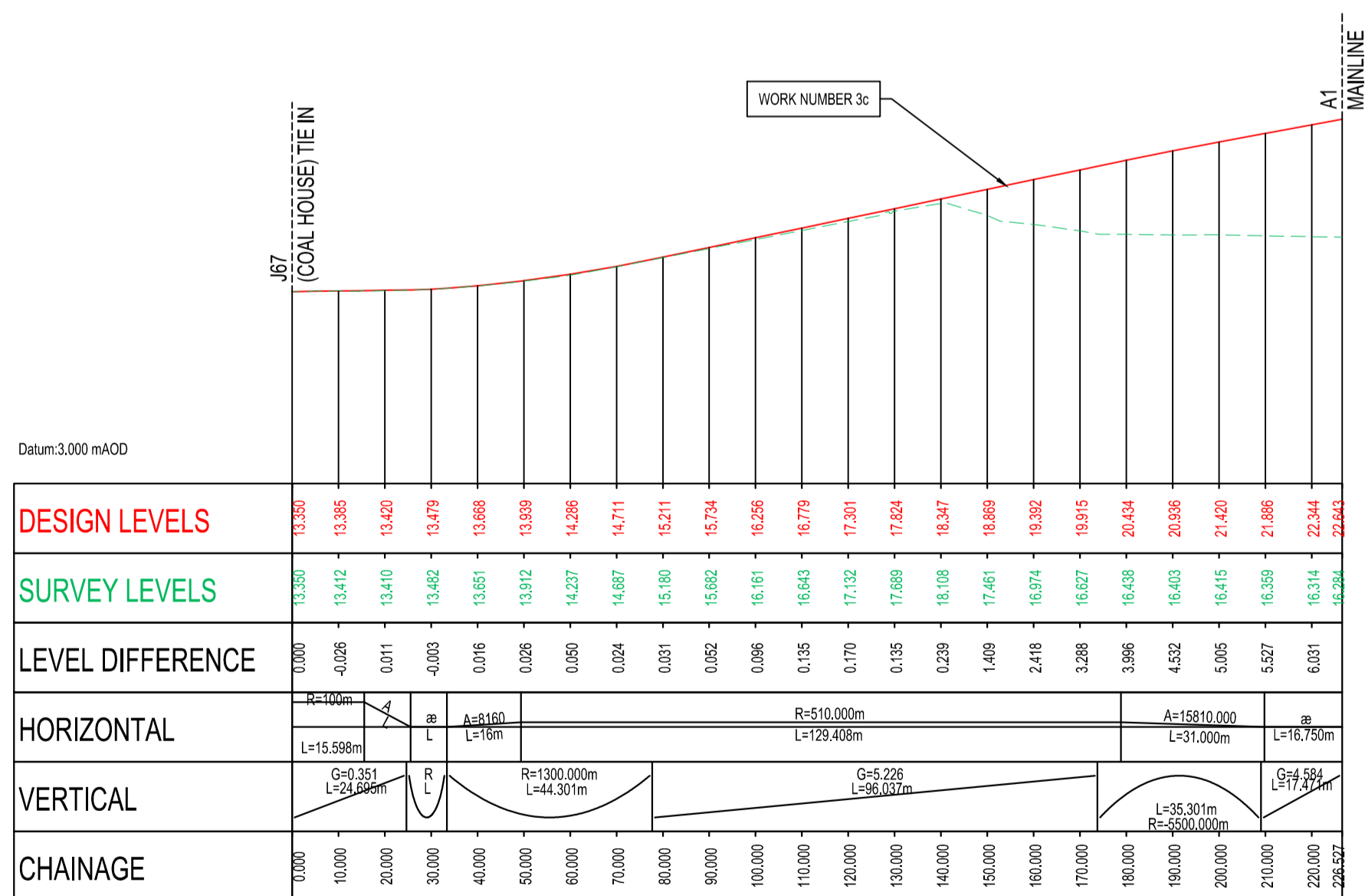
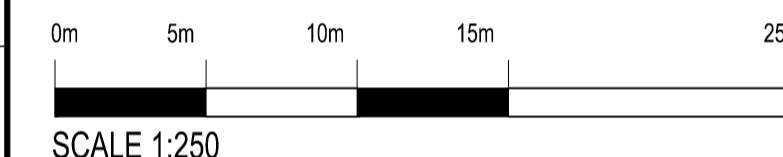
- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION 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

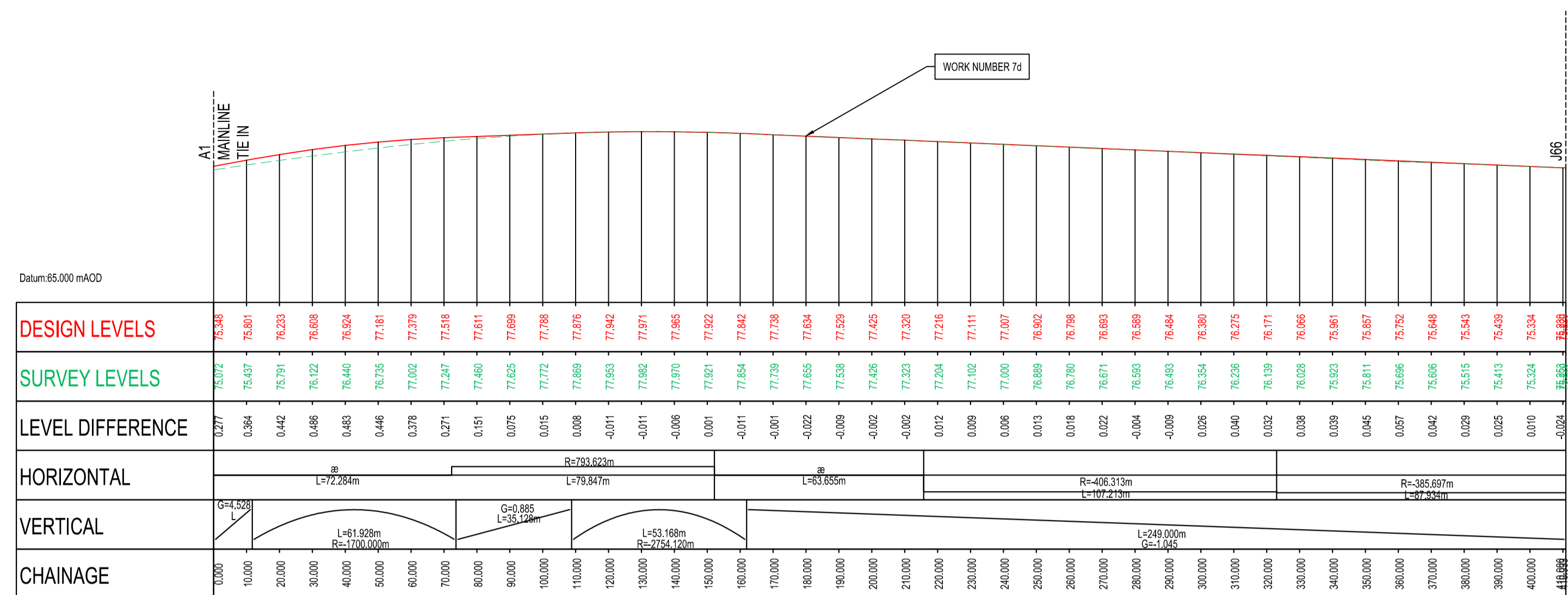
Drawing Title  
ENGINEERING SECTIONS DRAWINGS  
LONG SECTIONS  
REGULATION 5(2)(o) AND REGULATION 6(2)  
SHEET 7 OF 9

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

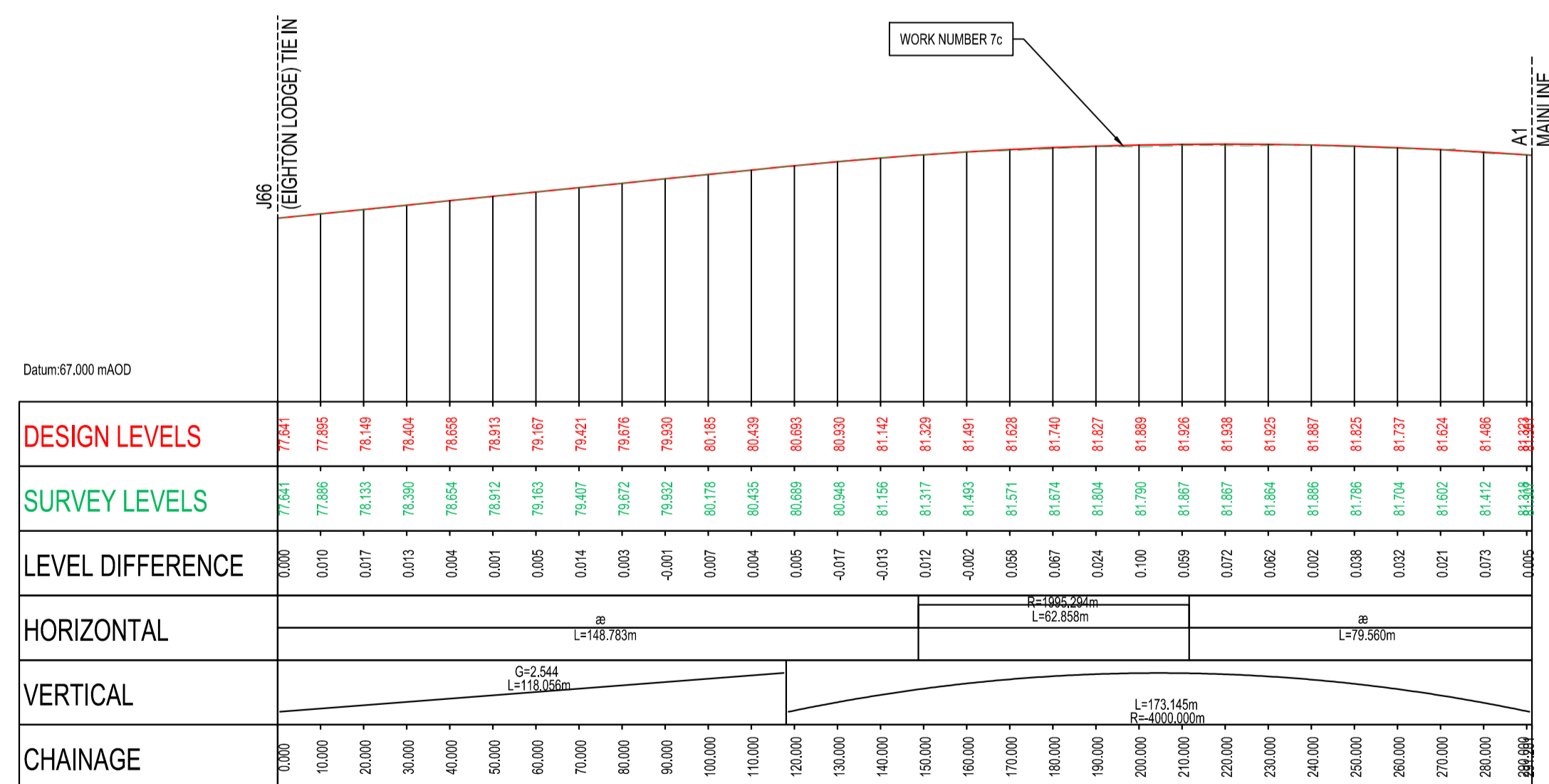
- NOTES
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
  2. ENGINEERING SECTION DRAWINGS, REGULATION 6(2) SHOULD BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT DRAWINGS (DOCUMENT REFERENCE TR010031/APP/2.6)
  3. ALL STRUCTURES AND CULVERT LOCATIONS ARE INDICATIVE PLANS TO BE READ IN CONJUNCTION 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

Suitability	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



